



**PHASE II ENVIRONMENTAL
SITE ASSESSMENT
CENTRAL PARK PLAZA
129 HOLDEN STREET
BUFFALO, NEW YORK**

PREPARED FOR:
Harter Secrest & Emery LLP
Buffalo, NY

PREPARED BY:
GZA GeoEnvironmental of New York
Buffalo, New York

November 2011
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November 2, 2011
File No. 21.0056630.10



Mr. Craig A. Slater
Harter Secrest & Emery LLP
Twelve Fountain Plaza, Suite 400
Buffalo, NY 14202-2293
Via email: cslater@hseilaw.com

Re: Phase II Environmental Site Assessment
Central Park Plaza
129 Holden Street
Buffalo, New York

535 Washington Street
11th Floor
Buffalo, New York
14203
716-685-2300
Fax: 716-685-3629
www.gza.com

Dear Mr. Slater:

GZA GeoEnvironmental of New York (GZA) is pleased to submit this report describing the results of our Phase II Environmental Site Assessment (ESA) at the above referenced Site. GZA developed a scope of work to assess the recognized environmental conditions (RECs) identified in our report "Phase I Environmental Site Assessment, Central Park Plaza, 129 Holden Street, Buffalo, New York" dated August 2011.

The results of our Phase II ESA identified VOC, SVOC, PCB and metal contamination at the Site. The petroleum related VOCs detected underneath the building in the former chop shop are characteristic of a petroleum release, and total xylene was detected above its Unrestricted Soil Cleanup Objectives (USCO). A petroleum release was called into the New York State Department of Environmental Conservation (NYSDEC) on October 28, 2011 and Spill No. 1109473 was assigned based on the analytical results. The various contaminants should be addressed if the Site is to be developed.

It is our understanding that LPCiminelli Construction is interested in developing the Site for use as multi-tenant residential dwellings. Based on the contamination identified, this Site is a likely candidate for the NYSDEC Brownfield Cleanup Program (BCP). GZA recommends that the report be submitted to NYSDEC with the request for a BCP pre-application meeting with their staff.

We trust this report satisfies your present needs. Should you have any questions or require additional information following your review, please do not hesitate to contact the undersigned.

Sincerely

GZA GEOENVIRONMENTAL OF NEW YORK



A handwritten signature in blue ink, appearing to read "Jennifer Davide".

Jennifer Davide
Environmental Scientist
(716) 844-7050

A handwritten signature in blue ink, appearing to read "Christopher Boron".

Christopher Boron
Senior Project Manager
(716) 844-7046

A handwritten signature in blue ink, appearing to read "Bart A. Klettke".

Bart A. Klettke, P.E.
Associate Principal
(716) 844-7035

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1.00 INTRODUCTION



In accordance with our October 6, 2011 proposal, GZA GeoEnvironmental of New York (GZA) performed a Phase II Environmental Site Assessment (Phase II ESA) at the Central Park Plaza located at 129 Holden Street in Buffalo, New York ("Site") for Harter Secrest & Emery LLP (Client). A Locus Plan is attached as Figure 1 and a Subsurface Exploration Location Plan as Figure 2.

BACKGROUND

GZA completed a Phase I Environmental Site Assessment¹ at the Site that identified the following recognized environmental conditions (RECs).

- The Site was first used by Buffalo Cement as a quarry from at least the early 1900s until the mid 1950s. The Site was first developed by the Central Park Plaza in 1958 with the construction of three Site buildings (Building 1 through Building 3). An additional building was constructed on the southern portion of the Site in 1967 (Building 4) and the fifth building on the western portion of the Site in 1989 (Building 5). The Site operated as a shopping plaza from 1958 until the last of the tenants vacated the Site in July 2011.
- Historic Site tenants of concern within Building 1 included photo marts, laundromats, an automatic car wash, a dry cleaner and a chop shop. Several oil containers with missing covers and areas of staining were observed within the chop shop. No floor drains were apparent in the immediate vicinity of the chemical storage areas; however, observations were limited due to the amount of debris within the Site building. GZA observed several cracks in the foundation within the chop shop.
- Historic Site tenants of concern within Building 2 include an auto service shop.
- In addition, the Site was listed twice on the NY Spills database. The potential exists for soil and/or groundwater contamination to have resulted from the historic Site usage.
- A maintenance person with Site responsibilities informed GZA that the current owner had been dumping fill materials in the area east of Building 2 at the Site and was unaware of the origin of the fill materials brought on-Site.
- GZA observed suspect asbestos-containing materials (ACM) during our Site reconnaissance including floor tiles, ceiling tiles and pipe wrap throughout the Site buildings. The interior portions of the Site buildings were littered with debris piles including garbage, drywall, ceiling tiles, floor tiles, glass, wood, pipe wrap etc.

¹ "Phase I Environmental Site Assessment, Central Park Plaza, 129 Holden Street, Buffalo, New York" completed for LPCiminelli Construction by GZA dated August 2011.



Additionally, due to the age of the buildings (1958-1989) it is possible that ACM are present in areas that were not readily accessible.

- GZA observed painted surfaces, in the interior of the Site building, to be in poor condition. Due to the age of the buildings (1958-1989) it is possible that painted surfaces contain detectable quantities of lead.
- GZA observed extensive areas of mold growth on floors, ceilings and walls throughout Site Buildings.

2.00 PURPOSE AND SCOPE OF WORK

The purpose of this Phase II ESA was to assess if the previous historic site usage has affected the Site soil. The focus of our investigation was on the upper four feet of soil below ground surface.

To accomplish this, GZA developed a scope of work for the investigation to evaluate the Site based upon generally accepted engineering standard of care and practices. The following activities were done.

- Observed the completion of nineteen (19) soil probes performed by GZA's subcontractor, TREC Environmental Inc. (TREC) on October 11, 2011.
- Collected subsurface soil samples continuously in four-foot sample intervals from ground surface to depths ranging from 4 to 16.7 feet below ground surface (bgs). Soil samples were collected from the macro-core sampler at each probe location.
- Field screened soil samples using an organic vapor meter (OVM) equipped with a photoionization detector (PID).
- Selected six soil samples for chemical analysis, which included volatile organic compounds (VOCs) via EPA Method 8260 (full list) semi-volatile organic compounds (SVOCs) via EPA Method 8270 (Base Neutrals list), RCRA 8 metals via EPA Method 6010/7470 and polychlorinated biphenyls (PCBs) via EPA Method 8082.
- Prepared this report, which summarizes the data collected during this Phase II ESA.

This report presents GZA's field observations, results, and opinions and is subject to the limitations presented in Appendix A, and modifications if subsequent information is developed by GZA or any other party.

3.00 FIELD STUDIES

This section describes the field studies done as part of GZA's subsurface investigation.



3.10 SOIL PROBE INSTALLATIONS

Nineteen (19) soil probes, designated as SP-1 through SP-19 as shown on Figure 2, were completed on-Site on October 11, 2011 using a Geoprobe® 54 LT track mounted rig equipped with a pneumatic hammer. The rationale for the soil probe locations is as follows.

- SP-1 and SP-2 were performed south of Building 1, on the western side, in the area of the former photo mart, drycleaners and car wash.
- SP-3 was performed south of Building 1, in the area of the former chop shop.
- SP-4 was performed south of Building 1, in the area of the former photo mart.
- SP-5 was performed north of Building 1, in the area of the former photo mart.
- SP-6 was performed north of Building 1.
- SP-7 and SP-8 were performed north of Building 1, in the area of the former chop shop.
- SP-9 through SP-11 were performed within the former chop shop.
- SP-12 through SP-14 were performed north of Building 1, in the area of the former photo mart, drycleaners and car wash.
- SP-15 was performed in the northeastern corner of the Site, in the area of the fill brought on-Site from unknown sources.
- SP-16 was performed centrally, south of Building 2 and west of Building 3 for Site coverage.
- SP-17 was performed in the southern portion of the Site, east of Building 4 and west of Building 3 for Site coverage.
- SP-18 was performed in the western portion of the Site, south of Building 1 and east of Building 5 in a formerly deeply depressed area which has since been filled in.
- SP-19 was performed in the southwestern corner of the site, in an area formerly occupied by a pond which has since been filled in.

The soil probes were advanced using a 2-inch diameter, 48-inch long macro-core sampler that was driven continuously at 48-inch intervals. A dedicated acetate sampler liner was used between sampling intervals. Representative portions of the recovered soils were placed in zip-lock bags for further classification and headspace analysis. Upon probe completion, the soil probe holes were backfilled with the soil cuttings; asphalt patch was used to restore the surface seal on the exterior probes and concrete was used to cover the interior probes.

GZA prepared soil probe logs summarizing the general subsurface conditions that were observed and encountered at each probe location. These logs are based on visual observations of the recovered soils and include a summary description of the soils using color and composition. Soil probe logs are presented as Appendix B.



3.30 HEADSPACE SCREENING PROCEDURE

A representative portion of each soil sample was placed in a zip-lock bag to later be screened after the initial field screening. The headspace in the bag of each collected soil sample was screened for organic vapor compounds using an OVM outfitted with a photoionization detector and a 10.6 eV ultraviolet lamp. The OVM used was a MiniRae 2000 and was calibrated in accordance with manufacturer's recommendations. A gas standard of isobutylene was used at an equivalent concentration of 100 parts per million (ppm) for calibration. Ambient air at the Site was used to establish background organic vapor concentrations.

Organic vapor concentrations were non-detect in the soil samples collected during the investigation. Headspace results were recorded on the probe logs included in Appendix B.

4.00 ANALYTICAL LABORATORY TESTING

Six subsurface soil samples were selected and submitted for analytical testing. The selected samples were packed in ice filled coolers and sent to the GZA GeoEnvironmental Laboratory in Hopkinton, Massachusetts. Typical chain-of-custody procedures were followed. Table 1 presents a summary of the samples collected and the analysis completed.

5.00 SUBSURFACE CONDITIONS

5.10 SOILS

The exterior surface generally consisted of asphalt or exposed sub-base with the exception of SP-15 which was completed in an area with vegetative cover. The subsurface conditions at the exterior soil probe locations generally consisted of granular soils (gravels and sands with lesser and various amounts of silt and clay) to depths of about 2 feet below ground surface (bgs). This granular soil extended deeper at SP-14 (4 feet bgs), SP-17 (8 feet bgs) and SP-18 (8 feet bgs).

Underlying the granular soil generally was a cohesive soil (silts and clays) with lesser and various amounts of sand, gravel, brick, wood and glass, to depths ranging from approximately 4 to 10 feet bgs. At probe locations SP-5, -6, -7, -8 and -19, a granular soil (sand and gravel) was encountered at depths of 4 to 8 feet and extend to the bottom of the soil probes.

The subsurface conditions at SP-15 consisted of cohesive soil (silts and clays) with lesser and various amounts of sand, gravel, brick, wood, slag and glass, from ground surface to the end of the probe at about 6 feet bgs.



The interior surface inside the former chop shop was concrete. Cohesive soils (clayey silt) with lesser and various amounts of sand, gravel and brick, were encountered to a depth of 8 feet below grade in the two northern soil probes, SP-9 and SP-10. A sand and gravel layer was encountered at SP-9 from about 2 to 4 feet below grade. Subsurface soils at SP-11, in the southern portion of the former chop shop, were granular soils (gravel and sand) with lesser and various amounts of silt and clay, to a depth of around 1.5 feet below grade, overlying a cohesive soil (silty clay) to about 5 feet below grade and then back to a granular soil (sand) with lesser and various amounts of gravel, clay, silt and brick.

Groundwater was not encountered at soil probe locations completed during our Phase II investigation.

6.00 ANALYTICAL TEST RESULTS

Findings of the laboratory testing of the soil samples analyzed are presented below. The analytical laboratory report is provided in Appendix C. The analytical results for the soil samples are summarized on Table 2.

The analytical test results for the subsurface soil samples were compared to:

- NYSDEC Part 375 Unrestricted and Residential Soil Cleanup Objectives (USCO and RSCO).

6.10 SOIL

Volatile Organic Compounds:

Thirteen (13) petroleum related VOCs were detected at concentrations above method detection limits in one soil sample, SP-9 from 0 to 4 feet bgs. This sample was collected from inside Building 1 in the former chop shop area. Of the 13 compounds detected, total xylene concentration (4,500 parts per billion (ppb)) exceeded its respective USCO of 260 ppb (see Table 2).

No VOCs were detected above method detection limits in the other five samples submitted for analytical testing.

Semi-Volatile Organic Compounds:

SVOCs were detected above method detection limits in five of the six soil samples submitted for analysis. No SVOCs were detected above method detection limits in the soil sample collected at SP-19 from 0 to 4 feet bgs.



A total of 19 different SVOCs were detected within the five samples, of which six (6) compounds were detected above their respective USCOs and five (5) were detected above their respective RSCOs (see Table 2) at two sample locations: SP-4, 2 to 6 feet bgs and SP-15, 0 to 4 feet bgs. Location SP-4 was located south of Building 1 in the area of the former photo mart and SP-15 was located in an area of fill material brought to the site.

Polychlorinated Biphenyls:

PCBs (Aroclor 1241 and 1254) were detected above method detection limits in one (1) sample, SP-9, 0 to 4 feet bgs. The total concentration of PCBs in sample SP-9, 0 to 4 feet bgs, was 640 ppb, which exceeds the USCO of 100 ppb (see Table 2). This sample was collected from inside Building 1 in the former chop shop area.

No PCBs were detected above method detection limits in the other five (5) samples submitted for analytical testing.

Metals:

Six (6) metals were detected above method detection limits in the six (6) soil samples sent for analysis. Three (3) of the metals were detected at concentrations above the SCOs. Cadmium, chromium and lead exceeded their respective USCOs and the concentrations of cadmium and chromium also exceed their respective RSCOs in the sample, SP-9, 0 to 4 feet bgs. Lead was detected at a concentration above its USCOs in the sample SP-10, 0 to 4 feet bgs. Both SP-9 and SP-10 were completed inside the former chop shop area.

7.00 CONCLUSIONS AND RECOMMENDATIONS

In accordance with our proposal, GZA performed a Phase II Environmental Site Assessment (Phase II ESA) at the Central Park Plaza located at 129 Holden Street in Buffalo, New York to assess the RECs identified in our Phase I ESA.

Our work included completion of 19 soil probes, headspace screening of soil samples taken from a macro-core sampler at the soil probe locations and analysis of six subsurface soil samples.

A summary of our findings and opinions based upon the work conducted as part of this study follows.

- The exterior surface cover generally consisted of asphalt or exposed sub-base. The subsurface conditions consisted of granular soils to depths of about 2 feet bgs. The granular soil extended deeper at SP-14 (4 feet bgs), SP-17 (8 feet bgs) and SP-18 (8 feet bgs). Underlying the granular soil generally was a cohesive soil (silts and clays) with lesser and various amounts of sand, gravel, brick, wood and glass at depths ranging from 4 to 10 feet bgs. At probe locations SP-5, -6, -7, -8 and -19,



granular soil was encountered at depths of 4 to 8 feet extending to the bottom of the soil probes.

- The interior surface cover inside the former chop shop was concrete. Cohesive soils (clayey silt) with lesser and various amounts of sand, gravel and brick, were encountered to a depth of 8 feet below grade in the two northern soil probes, SP-9 and SP-10. A sand and gravel layer was encountered at SP-9 from about 2 to 4 feet below grade. Subsurface soils at SP-11 in the southern portion of the former chop shop were granular soils (gravel and sand) with lesser and various amounts of silt and clay, to a depth of 1.5 feet below grade, overlying a cohesive soil (silty clay) to about 5 feet below grade and then back to a granular soil (sand) with lesser and various amounts of gravel, clay, silt and brick.
- Groundwater was not encountered at soil probe locations completed during our Phase II investigation.
- Thirteen (13) VOCs were detected at concentrations above method detection limits in one soil sample, SP-9 from 0 to 4 feet bgs. This sample was collected from inside Building 1 in the former chop shop area. Of the 13 compounds detected, the total xylene concentration exceeded its respective USCO. No VOCs were detected above method detection limits in the other five samples submitted for analytical testing.
- SVOCs were detected above method detection limits in five of the six soil samples submitted for analysis. Six (6) of the detected compound concentrations exceeded their respective USCOs and five (5) exceeded their respective RSCOs at two (2) samples locations: SP-4, 2 to 6 feet bgs and SP-15, 0 to 4 feet bgs. Location SP-4 was located south of Building 1 in the area of the former photo mart and SP-15 was in an area of fill material brought to the site.
- PCBs were detected above method detection limits in one (1) sample, SP-9, 0 to 4 feet bgs. The detected concentration exceeds the USCO. This sample was collected from inside Building 1 in the former chop shop area. No PCBs were detected above method detection limits in the other five (5) samples submitted for analytical testing.
- Six (6) metals were detected above method detection limits in the six (6) soil samples sent for analysis. Cadmium, chromium and lead exceeded their respective USCOs and the concentrations of cadmium and chromium also exceed their respective RSCOs in the sample, SP-9, 0 to 4 feet bgs. Lead was detected at a concentration above its USCO in the sample SP-10, 0 to 4 feet bgs. Both probes SP-9 and SP-10 were completed inside the former chop shop area.

The results of our Phase II investigation identified VOC, SVOC, PCBs and metals contamination at the Site. The petroleum related VOCs detected underneath the building in the former chop shop are characteristic of a petroleum release and total xylene was detected above its USCO. A petroleum release was called into the New York State

Department of Environmental Conservation (NYSDEC) on October 28, 2011 and Spill No. 1109473 was assigned based on the analytical results. The various contaminants will need to be addressed if the Site is to be developed for residential use.



It our understanding that LP Ciminelli Construction is interested in developing the Site for use as multi-tenant residential dwellings. Based on the contamination identified, this Site is a likely candidate for the NYSDEC Brownfield Cleanup Program (BCP). GZA recommends that the report be submitted to NYSDEC with the request for a BCP pre-application meeting with their staff.

TABLES

Table 1
Analytical Sample Summary
 Cetral Park Plaza
 Buffalo, New York

Location	Date Collected	Depth/ Interval (ft bgs)	VOCs EPA Method 8260-TCL	SVOCs EPA Method 8260	RCRA 8 Metals EPA Method 6010/7471	PCBs EPA Method 8082
SOIL SAMPLES						
SP-4	10/11/2011	2 to 6	X	X	X	X
SP-9	10/11/2011	0 to 4	X	X	X	X
SP-10	10/11/2011	0 to 4	X	X	X	X
SP-15	10/11/2011	0 to 4	X	X	X	X
SP-18	10/11/2011	0 to 4	X	X	X	X
SP-19	10/11/2011	0 to 4	X	X	X	X
Notes: 1. ft bgs = feet below ground surface. 2. VOCs = Volatile Organic Compounds. 3. SVOCs = Semi-Volatile Organic Compounds. 4. RCRA Metals = Resource Conservation and Recovery Act. 5. PCBs = Polychlorinated biphenyls. 6. TCL = Target Compound List.						

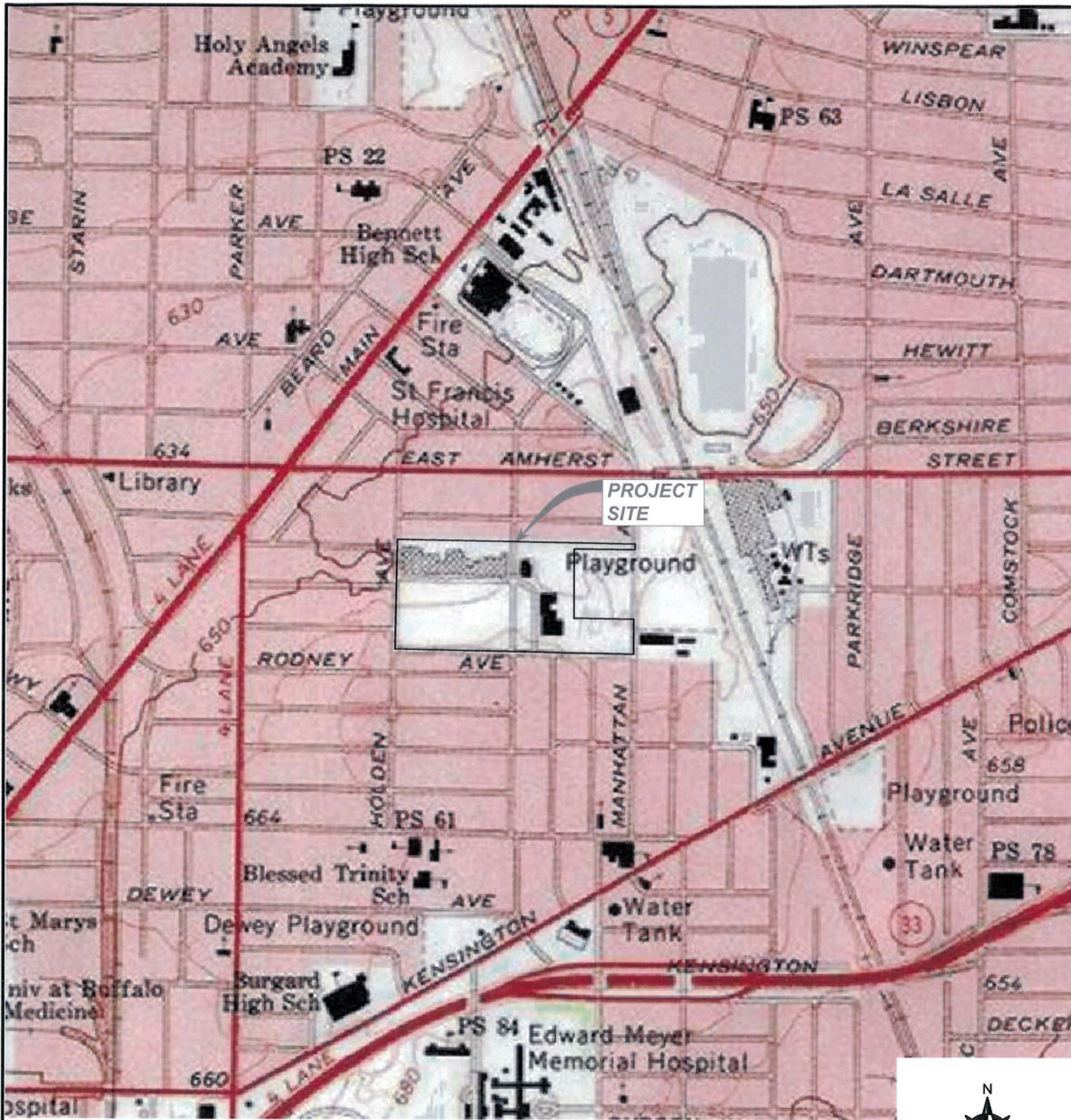
Table 2
Soil Analytical Testing Results Summary
Central Park Plaza
Buffalo, New York

Parameter	Part 375 - Unrestricted Use SCOs	Part 375 - Residential Use SCOs	SP-4 2 to 6 feet bgs	SP-9 0 to 4 feet bgs	SP-10 0 to 4 feet bgs	SP-15 0 to 4 feet bgs	SP-18 0 to 4 feet bgs	SP-19 0 to 4 feet bgs
Volatile Organic Compounds - EPA Method 8260 TCL (ug/kg)								
Toluene	700	100,000		400				
Ethylbenzene	1,000	30,000		800				
m&p-Xylene	Note 9	Note 9		3,000				
o-Xylene	Note 9	Note 9		1,500				
total Xylene	260	100,000		4,500				
Isopropylbenzene	2,300 ^{Note 10}	NV		110				
n-Propylbenzene	3,900	100,000		370				
1,3,5-Trimethylbenzene	8,400	47,000		720				
1,2,4-Trimethylbenzene	3,600	47,000		2,800				
sec-Butylbenzene	11,000	100,000		82				
p-Isopropyltoluene	10,000 ^{Note 10}	NV		65				
n-Butylbenzene	12,000	100,000		230				
Naphthalene	12,000	100,000		470				
Semi-Volatile Organic Compounds - EPA Method 8270 TCL (ug/kg)								
Naphthalene	12,000	100,000		650				
2-Methylnaphthalene	NV	NV		1,100				
Acenaphthylene	100,000	100,000				940		
Acenaphthene	20,000	100,000	600	360				
Dibenzofuran	7,000	14,000	420					
Fluorene	30,000	100,000	650	410		510		
Phenanthrene	100,000	100,000	6,700	2,000	550	3,000	1,000	
Anthracene	100,000	100,000	1,600		480	1,900		
Carbazole	NV	NV	860					
Fluoranthene	100,000	100,000	6,700	1,700		6,600	1,400	
Pyrene	100,000	100,000	5,500	1,600		6,100	1,200	
Benzo [a] anthracene	1,000	1,000	2,600			3,200	660	
Chrysene	1,000	1,000	2,200			3,500	520	
bis(2-Ethylhexyl)Phthalate	NV	NV		15,000 D				
Benzo [b] fluoranthene	1,000	1,000	2,600	450		2,800	550	
Benzo [k] fluoranthene	800	1,000	890			830		
Benzo [a] pyrene	1,000	1,000	1,700			1,900	370	
Indeno [1,2,3-cd] pyrene	500	500	850			1,200		
Benzo [g,h,i] perylene	100,000	100,000	930			770		
Polychlorinated Biphenyls - EPA Method 8082 (ug/kg)								
Aroclor 1241/1016	Note 8	Note 8		300				
Aroclor 1260	Note 8	Note 8						
Aroclor 1254	Note 8	Note 8		340				
Total PCBs	100	1,000		640				
RCRA 8 Metals - EPA Method 6010B/7471A (mg/kg)								
Arsenic	13	16	8.6	12	8.9	12	13	13
Barium	350	350	60	130	91	130	310	330
Cadmium	2.5	2.5	0.55	7.2	1.3	1.6	1.3	2
Chromium	30	36	7.6	86	18.0	20	16	18
Mercury	0.18	0.81	0.14	0.1	0.051	0.074	0.046	0.013
Lead	63	400	62	170	67	52	20	5.9

Notes:

- Compounds detected in one or more samples are presented on this table. Refer to Attachment C for list of all compounds included in analysis.
- Analytical testing completed by ESS Laboratory, Division of Thielsch Engineering, Inc., in Hopkinton, MA.
- ug/kg = part per billion, mg/kg = part per million.
- NV = no value.
- Shading indicates value exceeds Unrestricted Use Soil Cleanup Objectives.
- Bold** indicates value exceeds Restricted Use (Residential) Soil Cleanup Objectives.
- "D" qualifier = Analyte reported from a diluted run of the original analysis.
- Soil cleanup objective is for the sum of the Aroclor compound concentrations detected (Total PCBs).
- Soil cleanup objective is for the sum of total xylenes compounds detected.
- SCO provided is from NYSDEC CP-51, Soil Cleanup guidance dated October 21, 2010.
- Soil cleanup objectives (SCOs) are from NYSDEC Part 375, Subpart 375-6: Unrestricted Use and Restricted Use (Residential) Soil Cleanup Objectives.

FIGURES



NOTE:
 BASE MAP ADAPTED FROM U.S.G.S.
 TOPOGRAPHIC MAPS DOWNLOADED
 FROM TERRASERVER.MICROSOFT.COM



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PREPARED BY:
GZA GeoEnvironmental of N.Y.
 Engineers and Scientists
 535 WASHINGTON STREET 11th FLOOR
 BUFFALO, NEW YORK 14203
 (716) 985-2300

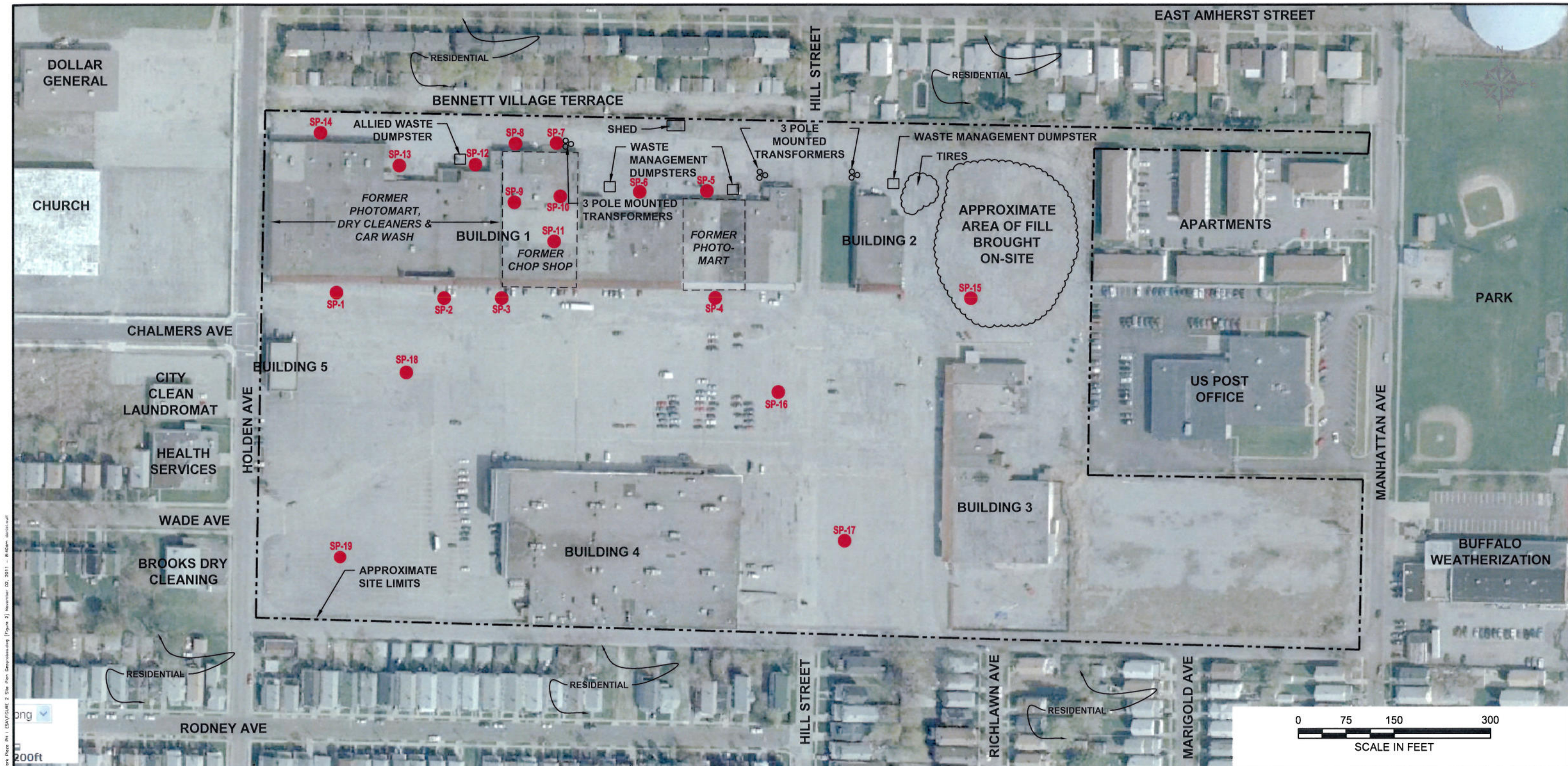
PREPARED FOR:
LOUIS P. CIMINELLI
CONSTRUCTION

CENTRAL PARK PLAZA
129 HOLDEN STREET
BUFFALO, NEW YORK

PHASE II ENVIRONMENTAL SITE ASSESSMENT
LOCUS PLAN

FIGURE
1

PROJ MGR:	CZB	REVIEWED BY:	CHECKED BY:	DATE	PROJECT NO.	REVISION NO.
DESIGNED BY:		DRAWN BY:	SCALE:	N OVEMBER 2011	21.0056630.10	



© 2011 - GZA GeoEnvironmental of N.Y. Central Park Plaza PH I (SAY) VOLUME 2 Site Plan Geoprobe Locations (Figure 2) November 02, 2011 - 8:45am 10/11/11

LEGEND:

● APPROXIMATE GEOPROBE LOCATION
INSTALLED BY TREC ON 10/11/11

NOTES:

1. BASE MAP ADAPTED FROM AN AERIAL PHOTO AND PROPERTY LINE DOWNLOADED FROM <http://www.bing.com/maps/> AND FIELD OBSERVATIONS.

2. THE SIZE AND LOCATION OF EXISTING SITE FEATURES SHOULD BE CONSIDERED APPROXIMATE.

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075150300
SCALE IN FEET

NO.	ISSUE/DESCRIPTION	BY	DATE
CENTRAL PARK PLAZA 129 HOLDEN STREET BUFFALO, NEW YORK			
PHASE II ENVIRONMENTAL SITE ASSESSMENT			
SITE PLAN			
PREPARED BY: GZA GeoEnvironmental of N.Y. Engineers and Scientists 535 WASHINGTON STREET 11th FLOOR BUFFALO, NEW YORK 14203 (716) 686-2300		PREPARED FOR: HARTER SECRET & EMERY LLP	
PROJ MGR:	CZB	REVIEWED BY:	CHECKED BY:
DESIGNED BY:		DRAWN BY:	MDK
DATE	NOVEMBER 2011	PROJECT NO.	21.0056630.10
		REVISION NO.	

FIGURE
2

APPENDIX A
LIMITATIONS

LIMITATIONS

1. The observations described in this report were made under the conditions stated herein. The conclusions presented in the report were based solely upon the services described therein, and not on scientific tasks or procedures beyond the scope of described services or the time and budgetary constraints imposed by Client. The work described in this report was carried out in accordance with the Terms and Conditions of our Agreement.
2. In preparing this report, GZA GeoEnvironmental of New York (GZA) has relied on certain information provided by state and local officials and other parties referenced therein, and on information contained in the files of state and/or local agencies available to GZA at the time of the site assessment. Although there may have been some degree of overlap in the information provided by these various sources, GZA did not attempt to independently verify the accuracy or completeness of all information reviewed or received during the course of this site assessment.
3. In the event that bank counsel or title examiner for Client obtains information on environmental or hazardous waste issues at the site not contained in this report, such information shall be brought to GZA's attention forthwith. GZA will evaluate such information and, on the basis of this evaluation, may modify the conclusions stated in this report.
4. Observations were made of the site and of structures on the site as indicated within the report. Where access to portions of the site or to structures on the site was unavailable or limited, GZA renders no opinion as to the presence of hazardous material or oil, or to the presence of indirect evidence relating to hazardous material or oil, in that portion of the site or structure. In addition, GZA renders no opinion as to the presence of hazardous material or oil, or to the presence of indirect evidence relating to hazardous material or oil, where direct observation of the interior walls, floor, or ceiling of a structure on a site was obstructed by objects or coverings on or over these surfaces.
5. Unless otherwise specified in the report, GZA did not perform testing or analyses to determine the presence or concentration of asbestos or polychlorinated biphenyls (PCB's) at the site or in the environment at the site.
6. The purpose of this report was to assess the physical characteristics of the subject site with respect to the presence in the environment of hazardous material or oil. No specific attempt was made to check on the compliance of present or past owners or operators of the site with federal, state, or local laws and regulations, environmental or otherwise.
7. The conclusions and recommendations contained in this report are based in part upon the data obtained from a limited number of soil and/or groundwater samples obtained from widely spaced subsurface explorations. The nature and extent of variations between these explorations may not become evident until further exploration. If variations or other latent conditions then appear evident, it will be necessary to reevaluate the conclusions and recommendations of this report.

8. Water level readings have been made in the test pits, borings, and/or observation wells at the times and under the conditions stated on the test pit or boring logs. However, it must be noted that fluctuations in the level of groundwater may occur due to variations in rainfall and other factors different from those prevailing at the time measurements were made.
9. The conclusions and recommendations contained in this report are based in part upon various types of chemical data and are contingent upon their validity. These data have been reviewed and interpretations made in the report. As indicated within the report, some of these data are preliminary "screening" level data, and should be confirmed with quantitative analyses if more specific information is necessary. Moreover, it should be noted that variations in the types and concentrations of contaminants and variations in their flow paths may occur due to seasonal water table fluctuations, past disposal practices, the passage of time, and other factors. Should additional chemical data become available in the future, these data should be reviewed by GZA and the conclusions and recommendations presented herein modified accordingly.
10. Chemical analyses have been performed for specific parameters during the course of this site assessment, as described in the text. However, it should be noted that additional chemical constituents not searched for during the current study may be present in soil and/or groundwater at the site.
11. It is recommended that GZA be retained to provide further engineering services during construction and/or implementation of any remedial measures recommended in this report. This is to allow GZA to observe compliance with the concepts and recommendations contained herein, and to allow the development of design changes in the event that subsurface conditions differ from those anticipated.

APPENDIX B
SOIL PROBE LOGS

CONTRACTOR		TREC Environmental		BORING LOCATION		See Figure 2	
DRILLER		Jim Agar		GROUND SURFACE ELEVATION		NM DATUM NA	
START DATE		10/11/11		END DATE		10/11/11 GZA GEOENVIRONMENTAL REPRESENTATIVE J. Davide	

WATER LEVEL DATA				TYPE OF DRILL RIG				Geoprobe 54 LT							
DATE		TIME		WATER		CASING		CASING SIZE AND DIAMETER				2" diameter by 48" long Macro-core Sampler			
				NA				OVERBURDEN SAMPLING METHOD				Direct push			
								ROCK DRILLING METHOD				NA			

D E P T H	SAMPLE INFORMATION			SAMPLE DESCRIPTION	NOTES	O V M (ppm)
	Sample Number	DEPTH (FT)	RECOVERY (%)			
1	S-1	0 - 4	60	Asphalt		ND
2				Gray GRAVEL and Sand, some Silt, little Clay, moist (subbase).		
3				Brown SILT & CLAY, trace Sand, trace Gravel, moist.		ND
4						
5	S-2	4 - 8	40	Grades to:... some Gravel.		ND
6						
7				Grades to:... Reddish Brown.		ND
8						
9	S-3	8 - 10.1	20			ND
10						
11				Refusal at 10.1 feet bgs.		
12						
13						
14						
15						
16						
17						
18						
19						
20						

S - Split Spoon Sample		Notes MiniRae 2000 organic vapor meter (OVM) was used to field screen and headspace soil samples.	
C - Rock Core Sample		ND = Non Detect; PPM = Parts Per Million; NA = Not Applicable	
General 1) Stratification lines represent approximate boundary between soil types, transitions may be gradual.			
Notes: 2) Water level readings have been made at times and under conditions stated, fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.			

Soil Probe: SP-2

Soil Probe: SP-3

Soil Probe: SP-4

CONTRACTOR		TREC Environmental		BORING LOCATION		See Figure 2	
DRILLER		Jim Agar		GROUND SURFACE ELEVATION		NM DATUM NA	
START DATE		10/11/11		END DATE		10/11/11 GZA GEOENVIRONMENTAL REPRESENTATIVE J. Davide	

WATER LEVEL DATA				TYPE OF DRILL RIG				Geoprobe 54 LT					
DATE		TIME		WATER		CASING		CASING SIZE AND DIAMETER		2" diameter by 48" long Macro-core Sampler			
				NA				OVERBURDEN SAMPLING METHOD		Direct push			
								ROCK DRILLING METHOD		NA			

D E P T H	SAMPLE INFORMATION			SAMPLE DESCRIPTION	NOTES	O V M (ppm)
	Sample Number	DEPTH (FT)	RECOVERY (%)			
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	S-1	0 - 4	60	Asphalt		ND
				Gray GRAVEL and Sand, some Silt, little Clay, moist (subbase).		ND
				Brown SILT & CLAY, little Gravel, trace Sand, trace Brick, moist.		ND
	S-2	4 - 8	20			ND
						ND
	S-3	8 - 12	50	Brown SAND, some Clay, some Gravel, little Silt, moist.		ND
						ND
				Grades to:... Dark Brown, some Clay.		
				End of probe at 12 feet bgs.		

S - Split Spoon Sample		Notes MiniRae 2000 organic vapor meter (OVM) was used to field screen and headspace soil samples.	
C - Rock Core Sample		ND = Non Detect; PPM = Parts Per Million; NA = Not Applicable	

General 1) Stratification lines represent approximate boundary between soil types, transitions may be gradual.

Notes: 2) Water level readings have been made at times and under conditions stated, fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

CONTRACTOR		TREC Environmental		BORING LOCATION		See Figure 2	
DRILLER		Jim Agar		GROUND SURFACE ELEVATION		NM DATUM NA	
START DATE		10/11/11		END DATE		10/11/11 GZA GEOENVIRONMENTAL REPRESENTATIVE J. Davide	

WATER LEVEL DATA				TYPE OF DRILL RIG				Geoprobe 54 LT					
DATE		TIME		WATER		CASING		CASING SIZE AND DIAMETER		2" diameter by 48" long Macro-core Sampler			
				NA				OVERBURDEN SAMPLING METHOD		Direct push			
								ROCK DRILLING METHOD		NA			

D E P T H	SAMPLE INFORMATION			SAMPLE DESCRIPTION	NOTES	O V M (ppm)	
	Sample Number	DEPTH (FT)	RECOVERY (%)				
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	S-1	0 - 4	60	Gray GRAVEL and Sand, some Silt, little Clay, moist (subbase).		ND	
				Brown SILT & CLAY, little Gravel, trace Sand, trace Brick, trace Glass, moist.		ND	
						ND	
		S-2	4 - 8	50			ND
				Brown SAND, some Gravel, little Silt, little Clay, moist.		ND	
			End of probe at 8 feet bgs.				

S - Split Spoon Sample	Notes MiniRae 2000 organic vapor meter (OVM) was used to field screen and headspace soil samples. ND = Non Detect; PPM = Parts Per Million; NA = Not Applicable
C - Rock Core Sample	

General Notes: 1) Stratification lines represent approximate boundary between soil types, transitions may be gradual.
2) Water level readings have been made at times and under conditions stated, fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Soil Probe: SP-7

Soil Probe: SP-8

Soil Probe: SP-9

CONTRACTOR		TREC Environmental		BORING LOCATION		See Figure 2	
DRILLER		Jim Agar		GROUND SURFACE ELEVATION		NM DATUM NA	
START DATE		10/11/11		END DATE		10/11/11 GZA GEOENVIRONMENTAL REPRESENTATIVE J. Davide	

WATER LEVEL DATA				TYPE OF DRILL RIG				Geoprobe 54 LT					
DATE		TIME		WATER		CASING		CASING SIZE AND DIAMETER		2" diameter by 48" long Macro-core Sampler			
				NA				OVERBURDEN SAMPLING METHOD		Direct push			
								ROCK DRILLING METHOD		NA			

D E P T H	SAMPLE INFORMATION			SAMPLE DESCRIPTION	NOTES	O V M (ppm)			
	Sample Number	DEPTH (FT)	RECOVERY (%)						
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	S-1	0 - 4	50	Brown Clayey SILT, little Sand, little Gravel, trace Brick, moist.		ND			
				Brown Silty CLAY, some Gravel little Sand, trace Brick, moist.		ND			
		S-2	4 - 8	30	End of probe at 8 feet bgs.		ND		

S - Split Spoon Sample	Notes MiniRae 2000 organic vapor meter (OVM) was used to field screen and headspace soil samples. ND = Non Detect; PPM = Parts Per Million; NA = Not Applicable
C - Rock Core Sample	

General Notes: 1) Stratification lines represent approximate boundary between soil types, transitions may be gradual.
2) Water level readings have been made at times and under conditions stated, fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Soil Probe: SP-11

CONTRACTOR		TREC Environmental		BORING LOCATION		See Figure 2	
DRILLER		Jim Agar		GROUND SURFACE ELEVATION		NM DATUM NA	
START DATE		10/11/11		END DATE		10/11/11 GZA GEOENVIRONMENTAL REPRESENTATIVE J. Davide	

WATER LEVEL DATA				TYPE OF DRILL RIG				Geoprobe 54 LT					
DATE		TIME		WATER		CASING		CASING SIZE AND DIAMETER		2" diameter by 48" long Macro-core Sampler			
				NA				OVERBURDEN SAMPLING METHOD		Direct push			
								ROCK DRILLING METHOD		NA			

D E P T H	SAMPLE INFORMATION			SAMPLE DESCRIPTION	NOTES	O V M (ppm)
	Sample Number	DEPTH (FT)	RECOVERY (%)			
1	S-1	0 - 4	60	Gray GRAVEL and Sand, some Silt, little Clay, moist (subbase).		ND
2				Grades to:... Dark Gray.		ND
3				Brown Silty CLAY, some Gravel, little Sand, trace Brick, moist.		
4						
5				End of probe at 4 feet bgs.		
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

S - Split Spoon Sample	Notes MiniRae 2000 organic vapor meter (OVM) was used to field screen and headspace soil samples. ND = Non Detect; PPM = Parts Per Million; NA = Not Applicable
C - Rock Core Sample	

General Notes:

- 1) Stratification lines represent approximate boundary between soil types, transitions may be gradual.
- 2) Water level readings have been made at times and under conditions stated, fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Soil Probe: SP-13

CONTRACTOR		TREC Environmental		BORING LOCATION		See Figure 2	
DRILLER		Jim Agar		GROUND SURFACE ELEVATION		NM DATUM NA	
START DATE		10/11/11		END DATE		10/11/11 GZA GEOENVIRONMENTAL REPRESENTATIVE J. Davide	

WATER LEVEL DATA				TYPE OF DRILL RIG				Geoprobe 54 LT					
DATE		TIME		WATER		CASING		CASING SIZE AND DIAMETER		2" diameter by 48" long Macro-core Sampler			
				NA				OVERBURDEN SAMPLING METHOD		Direct push			
								ROCK DRILLING METHOD		NA			

D E P T H	SAMPLE INFORMATION			SAMPLE DESCRIPTION	NOTES	O V M (ppm)
	Sample Number	DEPTH (FT)	RECOVERY (%)			
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	S-1	0 - 4	20	Gray GRAVEL and Sand, some Silt, little Clay, moist (subbase).		ND
	S-2	4 - 8	40	Brown SILT & CLAY, little Gravel, trace Sand, trace Brick, trace Glass, moist.		ND
			End of probe at 8 feet bgs.		ND	

S - Split Spoon Sample	Notes	MiniRae 2000 organic vapor meter (OVM) was used to field screen and headspace soil samples.
C - Rock Core Sample		ND = Non Detect; PPM = Parts Per Million; NA = Not Applicable

General Notes:

- 1) Stratification lines represent approximate boundary between soil types, transitions may be gradual.
- 2) Water level readings have been made at times and under conditions stated, fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Soil Probe: SP-15

CONTRACTOR		TREC Environmental		BORING LOCATION		See Figure 2	
DRILLER		Jim Agar		GROUND SURFACE ELEVATION		NM DATUM NA	
START DATE		10/11/11		END DATE		10/11/11 GZA GEOENVIRONMENTAL REPRESENTATIVE J. Davide	

WATER LEVEL DATA				TYPE OF DRILL RIG				Geoprobe 54 LT					
DATE		TIME		WATER		CASING		CASING SIZE AND DIAMETER		2" diameter by 48" long Macro-core Sampler			
				NA				OVERBURDEN SAMPLING METHOD		Direct push			
								ROCK DRILLING METHOD		NA			

D E P T H	SAMPLE INFORMATION			SAMPLE DESCRIPTION	NOTES	O V M (ppm)	
	Sample Number	DEPTH (FT)	RECOVERY (%)				
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	S-1	0 - 4	50	Asphalt		ND	
				Gray GRAVEL and Sand, some Silt, little Clay, moist (subbase).			
				Brown SILT & CLAY, little Gravel, trace Sand, trace Brick, trace Glass, moist.			ND
				Brown GRAVEL, and Sand, some Clay, little Silt, trace Brick, moist.			ND
	S-2	4 - 8	40				
				Brown Clayey SILT, little Gravel, trace Sand, moist.			
							ND
				End of probe at 8 feet bgs.			

S - Split Spoon Sample		Notes MiniRae 2000 organic vapor meter (OVM) was used to field screen and headspace soil samples.	
C - Rock Core Sample		ND = Non Detect; PPM = Parts Per Million; NA = Not Applicable	

General Notes:

- 1) Stratification lines represent approximate boundary between soil types, transitions may be gradual.
- 2) Water level readings have been made at times and under conditions stated, fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

CONTRACTOR		TREC Environmental		BORING LOCATION		See Figure 2	
DRILLER		Jim Agar		GROUND SURFACE ELEVATION		NM DATUM NA	
START DATE		10/11/11		END DATE		10/11/11 GZA GEOENVIRONMENTAL REPRESENTATIVE J. Davide	

WATER LEVEL DATA				TYPE OF DRILL RIG				Geoprobe 54 LT							
DATE		TIME		WATER		CASING		CASING SIZE AND DIAMETER				2" diameter by 48" long Macro-core Sampler			
				NA				OVERBURDEN SAMPLING METHOD				Direct push			
								ROCK DRILLING METHOD				NA			

D E P T H	SAMPLE INFORMATION			SAMPLE DESCRIPTION	NOTES	O V M (ppm)
	Sample Number	DEPTH (FT)	RECOVERY (%)			
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	S-1	0 - 4	50	Asphalt		ND
				Gray GRAVEL and Sand, some Silt, little Clay, moist (subbase).		ND
				Dark Brown SAND and Gravel, trace Sand, trace Brick, trace Glass, moist.		ND
				Grades to:... Brown.		ND
	S-2	4 - 8	40			ND
						ND
						ND
						ND
						ND
						ND
						ND
						ND
						ND
						ND
						ND
						ND
						ND
						ND
						ND
						End of probe at 8 feet bgs.

S - Split Spoon Sample	Notes MiniRae 2000 organic vapor meter (OVM) was used to field screen and headspace soil samples.
C - Rock Core Sample	ND = Non Detect; PPM = Parts Per Million; NA = Not Applicable

General 1) Stratification lines represent approximate boundary between soil types, transitions may be gradual.

Notes: 2) Water level readings have been made at times and under conditions stated, fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Soil Probe: SP-18

Soil Probe: SP-19

APPENDIX C
ANALYTICAL TEST RESULTS



Laboratory Identification Numbers:
MA and ME: **MA092** NH: **2028**
CT: **PH0579** RI: **LAO00236**
NELAC - NYS DOH: **11063**

ANALYTICAL REPORT

GZA GeoEnvironmental of NY
535 Washington Street
11th Floor
Buffalo, NY 14203-1415
Chris Boron

Project No.: **21.0056630.10**
Work Order No.: **1110-00068**
Date Received: **10/13/2011**
Date Reported: **10/24/2011**

SAMPLE INFORMATION

Date Sampled	Matrix	Laboratory ID	Sample ID
10/11/2011	Solid	1110-00068 001	SP-4 2-6ft.
10/11/2011	Solid	1110-00068 002	SP-9 0-4ft.
10/11/2011	Solid	1110-00068 003	SP-10 0-4ft.
10/11/2011	Solid	1110-00068 004	SP-15 0-4ft.
10/11/2011	Solid	1110-00068 005	SP-18 0-4ft.
10/11/2011	Solid	1110-00068 006	SP-19 0-4ft.



ANALYTICAL REPORT

GZA GeoEnvironmental of NY
535 Washington Street
11th Floor
Buffalo, NY 14203-1415
Chris Boron

Project Name.: **Central Park Plaza**
Project No.: **21.0056630.10**

Date Received: **10/13/2011**
Date Reported: **10/24/2011**
Work Order No.: **1110-00068**

PROJECT NARRATIVE:

1. Sample Receipt

The samples were received on 10/13/11 via ___GZA courier, ___x UPS, ___FEDEX, or ___hand delivered. The temperature of the ___temperature blank/___x cooler air, was 3.9 degrees C. The temperature requirement for most analyses is above freezing to 6 degrees C. The samples were received intact for all requested analyses.

The chain of custody indicates that the samples, when required, were chemically preserved in accordance with the method they reference. Soil samples for high level VOC analysis were received preserved in methanol.

2. EPA Method 6010C/7471B - Metals

Attach QC 6010C 10/14/11 A - Solid
Attach QC 6010C 10/14/11 B - Solid
Attach QC 7471B 10/19/11 - Solid

3. EPA Method 8082 - PCBs

* The samples indicate the presence of more than one Aroclor product. The PCB concentrations are estimates as some PCB congeners are contained in more than one Aroclor mixture.

Attach QC 8082 10/17/11 - Solid

4. EPA Method 8260 - VOCs

The Laboratory Control Sample (LCS) (10/20/11 S) had 8260 List analytes outside of the 70-130% acceptance criteria. Specific outliers include: bromomethane (61.8%) and chloroethane (69%).

The Laboratory Control Sample Duplicate (LCSD) (10/20/11 S) had 8260 List analytes outside of the 70-130% acceptance criteria. Specific outliers include: bromomethane (57.3%), chloroethane (64.1%), and carbon disulfide (67.6%).

The surrogate recovery for sample SP-15 0-4ft (1110-00068-004) exceeded the acceptance criteria of 70-130%. Specific outliers include: 1,2-dichloroethane-D4 (135%), toluene-D8 (137%), and 4-bromofluorobenzene (147%). The method permits surrogate recoveries >130% if no target analytes were detected in the sample.

The surrogate recovery for sample SP-18 0-4ft (1110-00068-005) exceeded the acceptance criteria of 70-130%. Specific outliers include: 1,2-dichloroethane-D4 (140%), toluene-D8 (136%), and 4-bromofluorobenzene (145%). The method permits surrogate recoveries >130% if no target analytes were detected in the sample.

The surrogate recovery for sample SP-19 0-4ft (1110-00068-006) exceeded the acceptance criteria of 70-130%. Specific outliers include: 1,2-dichloroethane-D4 (135%) and 4-bromofluorobenzene (134%). The method permits surrogate recoveries >130% if no target analytes were detected in the sample.

Attach QC 8260 10/20/11 "S" - Solid



ANALYTICAL REPORT

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Date Received: **10/13/2011**
Date Reported: **10/24/2011**
Work Order No.: **1110-00068**

5. EPA Method 8270 - SVOCs (BN Only)

Per the client's request, only a subset of the analyte list for SW-846 Method 8270 The Analysis of Semi-Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) is reported.

Data qualifier:

Any analytes reported from a diluted run of the original analysis have a "D" qualifier.

The percent recoveries for the surrogates in the diluted runs are as follows:

SP-9 (0-4): Nitrobenzene-D5 - 50.8%, 2-Fluorobiphenyl - 57.4%, P-Terphenyl -D14 - 67.0%.

The samples SP-15 0-4ft (1110-68-004) and SP-9 0-4ft. (1110-68-002) had low recovery for the internal standard, Perylene-D12 due to an unresolved complex matrix (UCM). A chromatogram exhibiting this UCM is attached. This internal standard is associated with the analytes Indeno[1,2,3-cd]pyrene, Dibenz[a,h]anthracene and Benzo[g,h,i]perylene. The results should be considered to be biased high for these analytes.

The Initial Calibration (ICAL) (10/22/11) (IABN214) had an analyte whose RF value did not meet the minimum values (Table 4, EPA 8270D), however, the RF value was greater than 0.050. The specific outlier includes 2-chloronaphthalene.

The % Recovery for isophorone (76.7%), benzoic acid (74.8%), pyrene (121%), 3,3'-dichlorobenzidine (153%), indeno[1,2,3-cd] pyrene (126%), dibenz [a,h] anthracene (127%), and benzo [ghi] perylene (123%) were outside method required QC acceptance limits of 80-120% Recovery in the mid-level secondary source standard following the ICAL (IABN214).

The Relative Percent Difference between the Laboratory Control Sample (LCS) and the Laboratory Control Sample Duplicate (LCSD) (10/18/2011 I) had a(n) 8270 List analyte outside of the <30 acceptance criteria. Specific outlier includes: bis(2-chloroethyl)ether (33.6%).

Attach QC 8270 10/18/2011 "I" - Solid
Attach Chromatograms



ANALYTICAL REPORT

GZA GeoEnvironmental of NY
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Buffalo, NY 14203-1415
Chris Boron

Project Name.: **Central Park Plaza**
Project No.: **21.0056630.10**

Date Received: **10/13/2011**
Date Reported: **10/24/2011**
Work Order No.: **1110-00068**

Data Authorized By: 

ESS Laboratory, Hopkinton Office has NELAC validation for the following methods:

Wastewater: Methods 624,625,245.1,150.2,120.1, 200.7 (PP13, RCRA 8, and Fe, Mg, Mn, Al, Cr+6, V, Co, Mo, Sn, Ti).

Aqueous: Methods 8260B, 8270D, 8081B, 8082A, 7470, 150.2, 120.1, 1311, 6010C (PP13, RCRA 8, and Fe, Mg, Mn, Al, Cr+6, V, Co, Mo, Sn, Ti), 300.0 (Cl, F, SO₄, NO₃, NO₂, Ophos), MA DEP EPH/VPH.

Soil: Methods 8260B, 8270D, 8081B, 8082A, 7471B, 9045, 1311, 6010C (PP13, RCRA8, and Fe, Mg, Mn, Al, V, Co, Mo, Sn, Ca), MA DEP VPH/EPH.

Abbreviations:

% R = % Recovery

DF = Dilution Factor

DFS = Dilution Factor Solids

CF = Calculation Factor

DO = Diluted Out

Method Key:

Method 8260: The current version of the method is 8260B.

Method 8270: The current version of the method is 8270D.

Method 6010: The current version of the method is 6010C.

Method 8081: The current version of the method is 8081B.

Method 8082: The current version of the method is 8082A.

Method 7471: The current version of the method is 7471B.

The current Metals preparation methods are: 3010A (aqueous) and 3051 (solid).

Please note that the laboratory signed copy of the chain of custody record is an integral part of the data report.

The laboratory report shall not be reproduced except in full without the written consent of the laboratory.

Soil data is reported on a dry weight basis unless otherwise specified.

Matrix Spike / Matrix Spike Duplicate sets are performed as per method and are reported at the end of the analytical report if assigned on the Chain of Custody.



ANALYTICAL REPORT

GZA GeoEnvironmental of NY
 535 Washington Street
 11th Floor
 Buffalo, NY 14203-1415
 Chris Boron

Project Name.: **Central Park Plaza**
 Project No.: **21.0056630.10**

Date Received: **10/13/2011**
 Date Reported: **10/24/2011**
 Work Order No.: **1110-00068**

Sample ID: **SP-4 2-6ft.**

Sample No.: **001**

Sample Date: **10/11/2011**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
PERCENT SOLID		84.0		%	TAJ	10/14/2011
VOLATILE ORGANICS	EPA 8260				MQS	10/20/2011
Dichlorodifluoromethane	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
Chloromethane	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
Vinyl chloride	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Bromomethane	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
Chloroethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Trichlorofluoromethane	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
Diethylether~	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
Acetone	EPA 8260	<1300	1300	ug/kg	MQS	10/20/2011
1,1-Dichloroethene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Carbon disulfide	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
Dichloromethane	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
Methyl tert-butyl ether	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
trans-1,2-Dichloroethene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,1-Dichloroethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
2-Butanone (MEK)	EPA 8260	<1300	1300	ug/kg	MQS	10/20/2011
2,2-Dichloropropane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
cis-1,2-Dichloroethene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Chloroform	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Bromochloromethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Tetrahydrofuran~	EPA 8260	<500	500	ug/kg	MQS	10/20/2011
1,1,1-Trichloroethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,1-Dichloropropene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Carbon tetrachloride	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,2-Dichloroethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Benzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Trichloroethene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,2-Dichloropropane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Bromodichloromethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Dibromomethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
4-Methyl-2-pentanone (MIBK)	EPA 8260	<1300	1300	ug/kg	MQS	10/20/2011
cis-1,3-Dichloropropene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Toluene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011



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Project Name.: **Central Park Plaza**
Project No.: **21.0056630.10**

Date Received: **10/13/2011**
Date Reported: **10/24/2011**
Work Order No.: **1110-00068**

Sample ID: **SP-4 2-6ft.**

Sample No.: **001**

Sample Date: **10/11/2011**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
trans-1,3-Dichloropropene	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
1,1,2-Trichloroethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
2-Hexanone	EPA 8260	<1300	1300	ug/kg	MQS	10/20/2011
1,3-Dichloropropane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Tetrachloroethene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Dibromochloromethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,2-Dibromoethane (EDB)	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
Chlorobenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,1,1,2-Tetrachloroethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Ethylbenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
m&p-Xylene	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
o-Xylene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Styrene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Bromoform	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
Isopropylbenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,1,2,2-Tetrachloroethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,2,3-Trichloropropane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Bromobenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
n-Propylbenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
2-Chlorotoluene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,3,5-Trimethylbenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
4-Chlorotoluene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
tert-Butylbenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,2,4-Trimethylbenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
sec-Butylbenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
p-Isopropyltoluene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,3-Dichlorobenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,4-Dichlorobenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
n-Butylbenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,2-Dichlorobenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,2-Dibromo-3-chloropropane	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
1,2,4-Trichlorobenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Hexachlorobutadiene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Naphthalene	EPA 8260	<100	100	ug/kg	MQS	10/20/2011



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 Date Reported: **10/24/2011**
 Work Order No.: **1110-00068**

Sample ID: **SP-4 2-6ft.**

Sample No.: **001**

Sample Date: **10/11/2011**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
1,2,3-Trichlorobenzene~	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Surrogates:	EPA 8260					
***1,2-Dichloroethane-D4	EPA 8260	112	70-130	% R	MQS	10/20/2011
***Toluene-D8	EPA 8260	112	70-130	% R	MQS	10/20/2011
***4-Bromofluorobenzene	EPA 8260	107	70-130	% R	MQS	10/20/2011
Preparation	EPA 5035	10		CF	MQS	10/19/2011
BASE-NEUTRAL SVOCS	EPA 8270				CMG	10/23/2011
n-Nitrosodimethylamine	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
bis(2-Chloroethyl)Ether	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
1,3-Dichlorobenzene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
1,4-Dichlorobenzene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Benzyl Alcohol	EPA 8270	<660	660	ug/kg	CMG	10/23/2011
1,2-Dichlorobenzene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
bis(2-Chloroisopropyl)Ether	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
n-Nitrosodi-n-Propylamine	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Hexachloroethane	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Nitrobenzene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Isophorone	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
bis(2-Chloroethoxy)Methane	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
1,2,4-Trichlorobenzene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Naphthalene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
4-Chloroaniline	EPA 8270	<660	660	ug/kg	CMG	10/23/2011
Hexachlorobutadiene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
2-Methylnaphthalene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Hexachlorocyclopentadiene	EPA 8270	<1700	1700	ug/kg	CMG	10/23/2011
2-Chloronaphthalene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
2-Nitroaniline	EPA 8270	<660	660	ug/kg	CMG	10/23/2011
Dimethylphthalate	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Acenaphthylene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
2,6-Dinitrotoluene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
3-Nitroaniline	EPA 8270	<660	660	ug/kg	CMG	10/23/2011
Acenaphthene	EPA 8270	600	330	ug/kg	CMG	10/23/2011
Dibenzofuran	EPA 8270	420	330	ug/kg	CMG	10/23/2011
2,4-Dinitrotoluene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011



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Date Received: **10/13/2011**
Date Reported: **10/24/2011**
Work Order No.: **1110-00068**

Sample ID: **SP-4 2-6ft.**

Sample No.: **001**

Sample Date: **10/11/2011**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
Diethylphthalate	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Fluorene	EPA 8270	650	330	ug/kg	CMG	10/23/2011
4-Chlorophenyl Phenyl Ether	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
4-Nitroaniline	EPA 8270	<660	660	ug/kg	CMG	10/23/2011
n-Nitrosodiphenylamine	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
4-Bromophenyl Phenyl Ether	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Hexachlorobenzene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Phenanthrene	EPA 8270	6700	330	ug/kg	CMG	10/23/2011
Anthracene	EPA 8270	1600	330	ug/kg	CMG	10/23/2011
Carbazole	EPA 8270	860	330	ug/kg	CMG	10/23/2011
di-n-Butylphthalate	EPA 8270	<500	500	ug/kg	CMG	10/23/2011
Fluoranthene	EPA 8270	6700	330	ug/kg	CMG	10/23/2011
Pyrene	EPA 8270	5500	330	ug/kg	CMG	10/23/2011
Butylbenzylphthalate	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Benzo [a] Anthracene	EPA 8270	2600	330	ug/kg	CMG	10/23/2011
3,3'-Dichlorobenzidine	EPA 8270	<660	660	ug/kg	CMG	10/23/2011
Chrysene	EPA 8270	2200	330	ug/kg	CMG	10/23/2011
bis(2-Ethylhexyl)Phthalate	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
di-n-Octylphthalate	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Benzo [b] Fluoranthene	EPA 8270	2600	330	ug/kg	CMG	10/23/2011
Benzo [k] Fluoranthene	EPA 8270	890	330	ug/kg	CMG	10/23/2011
Benzo [a] Pyrene	EPA 8270	1700	330	ug/kg	CMG	10/23/2011
Indeno [1,2,3-cd] Pyrene	EPA 8270	850	330	ug/kg	CMG	10/23/2011
Dibenzo [a,h] Anthracene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Benzo [g,h,i] Perylene	EPA 8270	930	330	ug/kg	CMG	10/23/2011
Surrogates:	EPA 8270					
***Nitrobenzene-D5	EPA 8270	53.7	25-87	% R	CMG	10/23/2011
***2-Fluorobiphenyl	EPA 8270	59.4	30-130	% R	CMG	10/23/2011
***p-Terphenyl-D14	EPA 8270	77.5	30-130	% R	CMG	10/23/2011
Extraction	EPA 3545	1.0		DF	BAF	10/18/2011
POLYCHLORINATED BIPHENYLS	EPA 8082				TAJ	10/17/2011
Aroclor 1268	EPA 8082	<100	100	ug/kg	TAJ	10/17/2011
Aroclor 1262	EPA 8082	<100	100	ug/kg	TAJ	10/17/2011
Aroclor 1260	EPA 8082	<100	100	ug/kg	TAJ	10/17/2011



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Sample ID: **SP-4 2-6ft.**

Sample No.: **001**

Sample Date: **10/11/2011**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
Aroclor 1254	EPA 8082	<100	100	ug/kg	TAJ	10/17/2011
Aroclor 1248	EPA 8082	<100	100	ug/kg	TAJ	10/17/2011
Aroclor 1242/1016	EPA 8082	<100	100	ug/kg	TAJ	10/17/2011
Aroclor 1232	EPA 8082	<100	100	ug/kg	TAJ	10/17/2011
Aroclor 1221	EPA 8082	<100	100	ug/kg	TAJ	10/17/2011
Surrogates:	EPA 8082					
***Tetrachloro-m-xylene	EPA 8082	76.2	30-150	% R	TAJ	10/17/2011
***Tetrachloro-m-xylene	EPA 8082	82.4	30-150	% R	TAJ	10/17/2011
***Decachlorobiphenyl	EPA 8082	136	30-150	% R	TAJ	10/17/2011
***Decachlorobiphenyl	EPA 8082	136	30-150	% R	TAJ	10/17/2011
Extraction	EPA 3545	1.0		DF	BAF	10/17/2011
RCRA METALS					LLZ	10/18/2011
Silver	EPA 6010C	<0.46	0.46	mg/kg	LLZ	10/14/2011
Arsenic	EPA 6010C	8.6	0.82	mg/kg	LLZ	10/18/2011
Barium	EPA 6010C	60	0.41	mg/kg	LLZ	10/18/2011
Cadmium	EPA 6010C	0.55	0.41	mg/kg	LLZ	10/19/2011
Chromium	EPA 6010C	7.6	0.41	mg/kg	LLZ	10/18/2011
Mercury	EPA 7471B	0.14	0.013	mg/kg	GDD	10/19/2011
Lead	EPA 6010C	62	0.82	mg/kg	LLZ	10/19/2011
Selenium	EPA 6010C	<2.1	2.1	mg/kg	LLZ	10/18/2011
Metals Preparation	EPA 3051	68.9		DFS	AJY	10/14/2011
Metals Preparation	EPA 3051	78.0		DFS	AJY	10/14/2011



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Date Received: **10/13/2011**
 Date Reported: **10/24/2011**
 Work Order No.: **1110-00068**

Sample ID: **SP-9 0-4ft.**

Sample No.: **002**

Sample Date: **10/11/2011**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
PERCENT SOLID		82.2		%	TAJ	10/14/2011
VOLATILE ORGANICS	EPA 8260				MQS	10/20/2011
Dichlorodifluoromethane	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
Chloromethane	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
Vinyl chloride	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Bromomethane	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
Chloroethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Trichlorofluoromethane	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
Diethylether~	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
Acetone	EPA 8260	<1300	1300	ug/kg	MQS	10/20/2011
1,1-Dichloroethene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Carbon disulfide	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
Dichloromethane	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
Methyl tert-butyl ether	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
trans-1,2-Dichloroethene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,1-Dichloroethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
2-Butanone (MEK)	EPA 8260	<1300	1300	ug/kg	MQS	10/20/2011
2,2-Dichloropropane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
cis-1,2-Dichloroethene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Chloroform	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Bromochloromethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Tetrahydrofuran~	EPA 8260	<500	500	ug/kg	MQS	10/20/2011
1,1,1-Trichloroethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,1-Dichloropropene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Carbon tetrachloride	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,2-Dichloroethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Benzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Trichloroethene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,2-Dichloropropane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Bromodichloromethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Dibromomethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
4-Methyl-2-pentanone (MIBK)	EPA 8260	<1300	1300	ug/kg	MQS	10/20/2011
cis-1,3-Dichloropropene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Toluene	EPA 8260	400	50	ug/kg	MQS	10/20/2011



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Sample ID: **SP-9 0-4ft.**

Sample No.: **002**

Sample Date: **10/11/2011**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
trans-1,3-Dichloropropene	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
1,1,2-Trichloroethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
2-Hexanone	EPA 8260	<1300	1300	ug/kg	MQS	10/20/2011
1,3-Dichloropropane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Tetrachloroethene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Dibromochloromethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,2-Dibromoethane (EDB)	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
Chlorobenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,1,1,2-Tetrachloroethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Ethylbenzene	EPA 8260	800	50	ug/kg	MQS	10/20/2011
m&p-Xylene	EPA 8260	3000	100	ug/kg	MQS	10/20/2011
o-Xylene	EPA 8260	1500	50	ug/kg	MQS	10/20/2011
Styrene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Bromoform	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
Isopropylbenzene	EPA 8260	110	50	ug/kg	MQS	10/20/2011
1,1,2,2-Tetrachloroethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,2,3-Trichloropropane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Bromobenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
n-Propylbenzene	EPA 8260	370	50	ug/kg	MQS	10/20/2011
2-Chlorotoluene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,3,5-Trimethylbenzene	EPA 8260	720	50	ug/kg	MQS	10/20/2011
4-Chlorotoluene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
tert-Butylbenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,2,4-Trimethylbenzene	EPA 8260	2800	50	ug/kg	MQS	10/20/2011
sec-Butylbenzene	EPA 8260	82	50	ug/kg	MQS	10/20/2011
p-Isopropyltoluene	EPA 8260	65	50	ug/kg	MQS	10/20/2011
1,3-Dichlorobenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,4-Dichlorobenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
n-Butylbenzene	EPA 8260	230	50	ug/kg	MQS	10/20/2011
1,2-Dichlorobenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,2-Dibromo-3-chloropropane	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
1,2,4-Trichlorobenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Hexachlorobutadiene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Naphthalene	EPA 8260	470	100	ug/kg	MQS	10/20/2011



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Work Order No.: **1110-00068**

Sample ID: **SP-9 0-4ft.**

Sample No.: **002**

Sample Date: **10/11/2011**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
1,2,3-Trichlorobenzene~	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Surrogates:	EPA 8260					
***1,2-Dichloroethane-D4	EPA 8260	114	70-130	% R	MQS	10/20/2011
***Toluene-D8	EPA 8260	102	70-130	% R	MQS	10/20/2011
***4-Bromofluorobenzene	EPA 8260	103	70-130	% R	MQS	10/20/2011
Preparation	EPA 5035	10		CF	MQS	10/19/2011
BASE-NEUTRAL SVOCS	EPA 8270				CMG	10/23/2011
n-Nitrosodimethylamine	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
bis(2-Chloroethyl)Ether	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
1,3-Dichlorobenzene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
1,4-Dichlorobenzene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Benzyl Alcohol	EPA 8270	<660	660	ug/kg	CMG	10/23/2011
1,2-Dichlorobenzene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
bis(2-Chloroisopropyl)Ether	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
n-Nitrosodi-n-Propylamine	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Hexachloroethane	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Nitrobenzene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Isophorone	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
bis(2-Chloroethoxy)Methane	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
1,2,4-Trichlorobenzene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Naphthalene	EPA 8270	650	330	ug/kg	CMG	10/23/2011
4-Chloroaniline	EPA 8270	<660	660	ug/kg	CMG	10/23/2011
Hexachlorobutadiene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
2-Methylnaphthalene	EPA 8270	1100	330	ug/kg	CMG	10/23/2011
Hexachlorocyclopentadiene	EPA 8270	<1700	1700	ug/kg	CMG	10/23/2011
2-Chloronaphthalene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
2-Nitroaniline	EPA 8270	<660	660	ug/kg	CMG	10/23/2011
Dimethylphthalate	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Acenaphthylene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
2,6-Dinitrotoluene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
3-Nitroaniline	EPA 8270	<660	660	ug/kg	CMG	10/23/2011
Acenaphthene	EPA 8270	360	330	ug/kg	CMG	10/23/2011
Dibenzofuran	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
2,4-Dinitrotoluene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011



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Project Name.: **Central Park Plaza**
Project No.: **21.0056630.10**

Date Received: **10/13/2011**
Date Reported: **10/24/2011**
Work Order No.: **1110-00068**

Sample ID: **SP-9 0-4ft.**

Sample No.: **002**

Sample Date: **10/11/2011**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
Diethylphthalate	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Fluorene	EPA 8270	410	330	ug/kg	CMG	10/23/2011
4-Chlorophenyl Phenyl Ether	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
4-Nitroaniline	EPA 8270	<660	660	ug/kg	CMG	10/23/2011
n-Nitrosodiphenylamine	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
4-Bromophenyl Phenyl Ether	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Hexachlorobenzene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Phenanthrene	EPA 8270	2000	330	ug/kg	CMG	10/23/2011
Anthracene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Carbazole	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
di-n-Butylphthalate	EPA 8270	<500	500	ug/kg	CMG	10/23/2011
Fluoranthene	EPA 8270	1700	330	ug/kg	CMG	10/23/2011
Pyrene	EPA 8270	1600	330	ug/kg	CMG	10/23/2011
Butylbenzylphthalate	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Benzo [a] Anthracene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
3,3'-Dichlorobenzidine	EPA 8270	<660	660	ug/kg	CMG	10/23/2011
Chrysene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
bis(2-Ethylhexyl)Phthalate	EPA 8270	15000 D	1700	ug/kg	CMG	10/24/2011
di-n-Octylphthalate	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Benzo [b] Fluoranthene	EPA 8270	450	330	ug/kg	CMG	10/23/2011
Benzo [k] Fluoranthene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Benzo [a] Pyrene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Indeno [1,2,3-cd] Pyrene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Dibenzo [a,h] Anthracene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Benzo [g,h,i] Perylene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Surrogates:	EPA 8270					
***Nitrobenzene-D5	EPA 8270	45.3	25-87	% R	CMG	10/23/2011
***2-Fluorobiphenyl	EPA 8270	62.9	30-130	% R	CMG	10/23/2011
***p-Terphenyl-D14	EPA 8270	54.6	30-130	% R	CMG	10/23/2011
Extraction	EPA 3545	1.0		DF	BAF	10/18/2011
POLYCHLORINATED BIPHENYLS	EPA 8082				TAJ	10/18/2011
Aroclor 1268	EPA 8082	<100	100	ug/kg	TAJ	10/18/2011
Aroclor 1262	EPA 8082	<100	100	ug/kg	TAJ	10/18/2011
Aroclor 1260	EPA 8082	<100	100	ug/kg	TAJ	10/18/2011



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 Date Reported: **10/24/2011**
 Work Order No.: **1110-00068**

Sample ID: **SP-9 0-4ft.**

Sample No.: **002**

Sample Date: **10/11/2011**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
Aroclor 1254	EPA 8082	340*	100	ug/kg	TAJ	10/18/2011
Aroclor 1248	EPA 8082	<100	100	ug/kg	TAJ	10/18/2011
Aroclor 1242/1016	EPA 8082	300*	100	ug/kg	TAJ	10/18/2011
Aroclor 1232	EPA 8082	<100	100	ug/kg	TAJ	10/18/2011
Aroclor 1221	EPA 8082	<100	100	ug/kg	TAJ	10/18/2011
Surrogates:	EPA 8082					
***Tetrachloro-m-xylene	EPA 8082	107	30-150	% R	TAJ	10/18/2011
***Tetrachloro-m-xylene	EPA 8082	105	30-150	% R	TAJ	10/18/2011
***Decachlorobiphenyl	EPA 8082	142	30-150	% R	TAJ	10/18/2011
***Decachlorobiphenyl	EPA 8082	129	30-150	% R	TAJ	10/18/2011
Extraction	EPA 3545	1.0		DF	BAF	10/17/2011
RCRA METALS					LLZ	10/18/2011
Silver	EPA 6010C	<0.43	0.43	mg/kg	LLZ	10/14/2011
Arsenic	EPA 6010C	12	0.62	mg/kg	LLZ	10/18/2011
Barium	EPA 6010C	130	0.31	mg/kg	LLZ	10/18/2011
Cadmium	EPA 6010C	7.2	0.31	mg/kg	LLZ	10/19/2011
Chromium	EPA 6010C	86	0.31	mg/kg	LLZ	10/18/2011
Mercury	EPA 7471B	0.10	0.011	mg/kg	GDD	10/19/2011
Lead	EPA 6010C	170	0.62	mg/kg	LLZ	10/19/2011
Selenium	EPA 6010C	<1.6	1.6	mg/kg	LLZ	10/18/2011
Metals Preparation	EPA 3051	51.1		DFS	AJY	10/14/2011
Metals Preparation	EPA 3051	70.5		DFS	AJY	10/14/2011



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Work Order No.: **1110-00068**

Sample ID: **SP-10 0-4ft.**

Sample No.: **003**

Sample Date: **10/11/2011**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
PERCENT SOLID		82.4		%	TAJ	10/14/2011
VOLATILE ORGANICS	EPA 8260				MQS	10/20/2011
Dichlorodifluoromethane	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
Chloromethane	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
Vinyl chloride	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Bromomethane	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
Chloroethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Trichlorofluoromethane	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
Diethylether~	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
Acetone	EPA 8260	<1300	1300	ug/kg	MQS	10/20/2011
1,1-Dichloroethene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Carbon disulfide	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
Dichloromethane	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
Methyl tert-butyl ether	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
trans-1,2-Dichloroethene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,1-Dichloroethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
2-Butanone (MEK)	EPA 8260	<1300	1300	ug/kg	MQS	10/20/2011
2,2-Dichloropropane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
cis-1,2-Dichloroethene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Chloroform	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Bromochloromethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Tetrahydrofuran~	EPA 8260	<500	500	ug/kg	MQS	10/20/2011
1,1,1-Trichloroethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,1-Dichloropropene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Carbon tetrachloride	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,2-Dichloroethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Benzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Trichloroethene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,2-Dichloropropane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Bromodichloromethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Dibromomethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
4-Methyl-2-pentanone (MIBK)	EPA 8260	<1300	1300	ug/kg	MQS	10/20/2011
cis-1,3-Dichloropropene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Toluene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011



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 Date Reported: **10/24/2011**
 Work Order No.: **1110-00068**

Sample ID: **SP-10 0-4ft.**

Sample No.: **003**

Sample Date: **10/11/2011**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
trans-1,3-Dichloropropene	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
1,1,2-Trichloroethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
2-Hexanone	EPA 8260	<1300	1300	ug/kg	MQS	10/20/2011
1,3-Dichloropropane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Tetrachloroethene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Dibromochloromethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,2-Dibromoethane (EDB)	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
Chlorobenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,1,1,2-Tetrachloroethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Ethylbenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
m&p-Xylene	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
o-Xylene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Styrene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Bromoform	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
Isopropylbenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,1,2,2-Tetrachloroethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,2,3-Trichloropropane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Bromobenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
n-Propylbenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
2-Chlorotoluene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,3,5-Trimethylbenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
4-Chlorotoluene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
tert-Butylbenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,2,4-Trimethylbenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
sec-Butylbenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
p-Isopropyltoluene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,3-Dichlorobenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,4-Dichlorobenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
n-Butylbenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,2-Dichlorobenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,2-Dibromo-3-chloropropane	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
1,2,4-Trichlorobenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Hexachlorobutadiene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Naphthalene	EPA 8260	<100	100	ug/kg	MQS	10/20/2011



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Date Reported: **10/24/2011**
Work Order No.: **1110-00068**

Sample ID: **SP-10 0-4ft.**

Sample No.: **003**

Sample Date: **10/11/2011**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
1,2,3-Trichlorobenzene~	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Surrogates:	EPA 8260					
***1,2-Dichloroethane-D4	EPA 8260	112	70-130	% R	MQS	10/20/2011
***Toluene-D8	EPA 8260	89.0	70-130	% R	MQS	10/20/2011
***4-Bromofluorobenzene	EPA 8260	87.2	70-130	% R	MQS	10/20/2011
Preparation	EPA 5035	10		CF	MQS	10/19/2011
BASE-NEUTRAL SVOCS	EPA 8270				CMG	10/23/2011
n-Nitrosodimethylamine	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
bis(2-Chloroethyl)Ether	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
1,3-Dichlorobenzene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
1,4-Dichlorobenzene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Benzyl Alcohol	EPA 8270	<660	660	ug/kg	CMG	10/23/2011
1,2-Dichlorobenzene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
bis(2-Chloroisopropyl)Ether	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
n-Nitrosodi-n-Propylamine	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Hexachloroethane	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Nitrobenzene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Isophorone	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
bis(2-Chloroethoxy)Methane	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
1,2,4-Trichlorobenzene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Naphthalene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
4-Chloroaniline	EPA 8270	<660	660	ug/kg	CMG	10/23/2011
Hexachlorobutadiene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
2-Methylnaphthalene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Hexachlorocyclopentadiene	EPA 8270	<1700	1700	ug/kg	CMG	10/23/2011
2-Chloronaphthalene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
2-Nitroaniline	EPA 8270	<660	660	ug/kg	CMG	10/23/2011
Dimethylphthalate	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Acenaphthylene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
2,6-Dinitrotoluene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
3-Nitroaniline	EPA 8270	<660	660	ug/kg	CMG	10/23/2011
Acenaphthene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Dibenzofuran	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
2,4-Dinitrotoluene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011



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Sample ID: **SP-10 0-4ft.**

Sample No.: **003**

Sample Date: **10/11/2011**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
Diethylphthalate	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Fluorene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
4-Chlorophenyl Phenyl Ether	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
4-Nitroaniline	EPA 8270	<660	660	ug/kg	CMG	10/23/2011
n-Nitrosodiphenylamine	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
4-Bromophenyl Phenyl Ether	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Hexachlorobenzene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Phenanthrene	EPA 8270	550	330	ug/kg	CMG	10/23/2011
Anthracene	EPA 8270	480	330	ug/kg	CMG	10/23/2011
Carbazole	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
di-n-Butylphthalate	EPA 8270	<500	500	ug/kg	CMG	10/23/2011
Fluoranthene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Pyrene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Butylbenzylphthalate	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Benzo [a] Anthracene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
3,3'-Dichlorobenzidine	EPA 8270	<660	660	ug/kg	CMG	10/23/2011
Chrysene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
bis(2-Ethylhexyl)Phthalate	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
di-n-Octylphthalate	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Benzo [b] Fluoranthene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Benzo [k] Fluoranthene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Benzo [a] Pyrene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Indeno [1,2,3-cd] Pyrene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Dibenzo [a,h] Anthracene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Benzo [g,h,i] Perylene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Surrogates:	EPA 8270					
***Nitrobenzene-D5	EPA 8270	44.4	25-87	% R	CMG	10/23/2011
***2-Fluorobiphenyl	EPA 8270	43.4	30-130	% R	CMG	10/23/2011
***p-Terphenyl-D14	EPA 8270	56.2	30-130	% R	CMG	10/23/2011
Extraction	EPA 3545	1.0		DF	BAF	10/18/2011
POLYCHLORINATED BIPHENYLS	EPA 8082				TAJ	10/18/2011
Aroclor 1268	EPA 8082	<100	100	ug/kg	TAJ	10/18/2011
Aroclor 1262	EPA 8082	<100	100	ug/kg	TAJ	10/18/2011
Aroclor 1260	EPA 8082	<100	100	ug/kg	TAJ	10/18/2011



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Sample ID: **SP-10 0-4ft.**

Sample No.: **003**

Sample Date: **10/11/2011**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
Aroclor 1254	EPA 8082	<100	100	ug/kg	TAJ	10/18/2011
Aroclor 1248	EPA 8082	<100	100	ug/kg	TAJ	10/18/2011
Aroclor 1242/1016	EPA 8082	<100	100	ug/kg	TAJ	10/18/2011
Aroclor 1232	EPA 8082	<100	100	ug/kg	TAJ	10/18/2011
Aroclor 1221	EPA 8082	<100	100	ug/kg	TAJ	10/18/2011
Surrogates:	EPA 8082					
***Tetrachloro-m-xylene	EPA 8082	66.0	30-150	% R	TAJ	10/18/2011
***Tetrachloro-m-xylene	EPA 8082	71.5	30-150	% R	TAJ	10/18/2011
***Decachlorobiphenyl	EPA 8082	120	30-150	% R	TAJ	10/18/2011
***Decachlorobiphenyl	EPA 8082	123	30-150	% R	TAJ	10/18/2011
Extraction	EPA 3545	1.0		DF	BAF	10/17/2011
RCRA METALS					LLZ	10/18/2011
Silver	EPA 6010C	<0.34	0.34	mg/kg	LLZ	10/14/2011
Arsenic	EPA 6010C	8.9	0.76	mg/kg	LLZ	10/18/2011
Barium	EPA 6010C	91	0.38	mg/kg	LLZ	10/18/2011
Cadmium	EPA 6010C	1.3	0.38	mg/kg	LLZ	10/19/2011
Chromium	EPA 6010C	18	0.38	mg/kg	LLZ	10/18/2011
Mercury	EPA 7471B	0.051	0.013	mg/kg	GDD	10/19/2011
Lead	EPA 6010C	67	0.76	mg/kg	LLZ	10/19/2011
Selenium	EPA 6010C	<1.9	1.9	mg/kg	LLZ	10/18/2011
Metals Preparation	EPA 3051	62.5		DFS	AJY	10/14/2011
Metals Preparation	EPA 3051	56.4		DFS	AJY	10/14/2011



ANALYTICAL REPORT

GZA GeoEnvironmental of NY
535 Washington Street
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Chris Boron

Project Name.: **Central Park Plaza**
Project No.: **21.0056630.10**

Date Received: **10/13/2011**
Date Reported: **10/24/2011**
Work Order No.: **1110-00068**

Sample ID: **SP-15 0-4ft.**

Sample No.: **004**

Sample Date: **10/11/2011**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
PERCENT SOLID		82.1		%	TAJ	10/14/2011
VOLATILE ORGANICS	EPA 8260				MQS	10/20/2011
Dichlorodifluoromethane	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
Chloromethane	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
Vinyl chloride	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Bromomethane	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
Chloroethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Trichlorofluoromethane	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
Diethylether~	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
Acetone	EPA 8260	<1300	1300	ug/kg	MQS	10/20/2011
1,1-Dichloroethene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Carbon disulfide	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
Dichloromethane	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
Methyl tert-butyl ether	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
trans-1,2-Dichloroethene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,1-Dichloroethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
2-Butanone (MEK)	EPA 8260	<1300	1300	ug/kg	MQS	10/20/2011
2,2-Dichloropropane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
cis-1,2-Dichloroethene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Chloroform	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Bromochloromethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Tetrahydrofuran~	EPA 8260	<500	500	ug/kg	MQS	10/20/2011
1,1,1-Trichloroethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,1-Dichloropropene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Carbon tetrachloride	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,2-Dichloroethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Benzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Trichloroethene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,2-Dichloropropane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Bromodichloromethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Dibromomethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
4-Methyl-2-pentanone (MIBK)	EPA 8260	<1300	1300	ug/kg	MQS	10/20/2011
cis-1,3-Dichloropropene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Toluene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011



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Date Received: **10/13/2011**
 Date Reported: **10/24/2011**
 Work Order No.: **1110-00068**

Sample ID: **SP-15 0-4ft.**

Sample No.: **004**

Sample Date: **10/11/2011**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
trans-1,3-Dichloropropene	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
1,1,2-Trichloroethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
2-Hexanone	EPA 8260	<1300	1300	ug/kg	MQS	10/20/2011
1,3-Dichloropropane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Tetrachloroethene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Dibromochloromethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,2-Dibromoethane (EDB)	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
Chlorobenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,1,1,2-Tetrachloroethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Ethylbenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
m&p-Xylene	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
o-Xylene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Styrene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Bromoform	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
Isopropylbenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,1,2,2-Tetrachloroethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,2,3-Trichloropropane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Bromobenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
n-Propylbenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
2-Chlorotoluene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,3,5-Trimethylbenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
4-Chlorotoluene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
tert-Butylbenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,2,4-Trimethylbenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
sec-Butylbenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
p-Isopropyltoluene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,3-Dichlorobenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,4-Dichlorobenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
n-Butylbenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,2-Dichlorobenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,2-Dibromo-3-chloropropane	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
1,2,4-Trichlorobenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Hexachlorobutadiene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Naphthalene	EPA 8260	<100	100	ug/kg	MQS	10/20/2011



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 Work Order No.: **1110-00068**

Sample ID: **SP-15 0-4ft.**

Sample No.: **004**

Sample Date: **10/11/2011**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
1,2,3-Trichlorobenzene~	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Surrogates:	EPA 8260					
***1,2-Dichloroethane-D4	EPA 8260	135	* 70-130	% R	MQS	10/20/2011
***Toluene-D8	EPA 8260	137	* 70-130	% R	MQS	10/20/2011
***4-Bromofluorobenzene	EPA 8260	147	* 70-130	% R	MQS	10/20/2011
Preparation	EPA 5035	10		CF	MQS	10/19/2011
BASE-NEUTRAL SVOCS	EPA 8270				CMG	10/23/2011
n-Nitrosodimethylamine	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
bis(2-Chloroethyl)Ether	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
1,3-Dichlorobenzene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
1,4-Dichlorobenzene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Benzyl Alcohol	EPA 8270	<660	660	ug/kg	CMG	10/23/2011
1,2-Dichlorobenzene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
bis(2-Chloroisopropyl)Ether	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
n-Nitrosodi-n-Propylamine	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Hexachloroethane	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Nitrobenzene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Isophorone	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
bis(2-Chloroethoxy)Methane	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
1,2,4-Trichlorobenzene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Naphthalene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
4-Chloroaniline	EPA 8270	<660	660	ug/kg	CMG	10/23/2011
Hexachlorobutadiene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
2-Methylnaphthalene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Hexachlorocyclopentadiene	EPA 8270	<1700	1700	ug/kg	CMG	10/23/2011
2-Chloronaphthalene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
2-Nitroaniline	EPA 8270	<660	660	ug/kg	CMG	10/23/2011
Dimethylphthalate	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Acenaphthylene	EPA 8270	940	330	ug/kg	CMG	10/23/2011
2,6-Dinitrotoluene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
3-Nitroaniline	EPA 8270	<660	660	ug/kg	CMG	10/23/2011
Acenaphthene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Dibenzofuran	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
2,4-Dinitrotoluene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011



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Sample ID: **SP-15 0-4ft.**

Sample No.: **004**

Sample Date: **10/11/2011**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
Diethylphthalate	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Fluorene	EPA 8270	510	330	ug/kg	CMG	10/23/2011
4-Chlorophenyl Phenyl Ether	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
4-Nitroaniline	EPA 8270	<660	660	ug/kg	CMG	10/23/2011
n-Nitrosodiphenylamine	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
4-Bromophenyl Phenyl Ether	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Hexachlorobenzene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Phenanthrene	EPA 8270	3000	330	ug/kg	CMG	10/23/2011
Anthracene	EPA 8270	1900	330	ug/kg	CMG	10/23/2011
Carbazole	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
di-n-Butylphthalate	EPA 8270	<500	500	ug/kg	CMG	10/23/2011
Fluoranthene	EPA 8270	6600	330	ug/kg	CMG	10/23/2011
Pyrene	EPA 8270	6100	330	ug/kg	CMG	10/23/2011
Butylbenzylphthalate	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Benzo [a] Anthracene	EPA 8270	3200	330	ug/kg	CMG	10/23/2011
3,3'-Dichlorobenzidine	EPA 8270	<660	660	ug/kg	CMG	10/23/2011
Chrysene	EPA 8270	3500	330	ug/kg	CMG	10/23/2011
bis(2-Ethylhexyl)Phthalate	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
di-n-Octylphthalate	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Benzo [b] Fluoranthene	EPA 8270	2800	330	ug/kg	CMG	10/23/2011
Benzo [k] Fluoranthene	EPA 8270	830	330	ug/kg	CMG	10/23/2011
Benzo [a] Pyrene	EPA 8270	1900	330	ug/kg	CMG	10/23/2011
Indeno [1,2,3-cd] Pyrene	EPA 8270	1200	330	ug/kg	CMG	10/23/2011
Dibenzo [a,h] Anthracene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Benzo [g,h,i] Perylene	EPA 8270	770	330	ug/kg	CMG	10/23/2011
Surrogates:	EPA 8270					
***Nitrobenzene-D5	EPA 8270	63.7	25-87	% R	CMG	10/23/2011
***2-Fluorobiphenyl	EPA 8270	67.6	30-130	% R	CMG	10/23/2011
***p-Terphenyl-D14	EPA 8270	65.2	30-130	% R	CMG	10/23/2011
Extraction	EPA 3545	1.0		DF	BAF	10/18/2011
POLYCHLORINATED BIPHENYLS	EPA 8082				TAJ	10/18/2011
Aroclor 1268	EPA 8082	<100	100	ug/kg	TAJ	10/18/2011
Aroclor 1262	EPA 8082	<100	100	ug/kg	TAJ	10/18/2011
Aroclor 1260	EPA 8082	<100	100	ug/kg	TAJ	10/18/2011



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Sample ID: **SP-15 0-4ft.**

Sample No.: **004**

Sample Date: **10/11/2011**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
Aroclor 1254	EPA 8082	<100	100	ug/kg	TAJ	10/18/2011
Aroclor 1248	EPA 8082	<100	100	ug/kg	TAJ	10/18/2011
Aroclor 1242/1016	EPA 8082	<100	100	ug/kg	TAJ	10/18/2011
Aroclor 1232	EPA 8082	<100	100	ug/kg	TAJ	10/18/2011
Aroclor 1221	EPA 8082	<100	100	ug/kg	TAJ	10/18/2011
Surrogates:	EPA 8082					
***Tetrachloro-m-xylene	EPA 8082	65.0	30-150	% R	TAJ	10/18/2011
***Tetrachloro-m-xylene	EPA 8082	67.3	30-150	% R	TAJ	10/18/2011
***Decachlorobiphenyl	EPA 8082	125	30-150	% R	TAJ	10/18/2011
***Decachlorobiphenyl	EPA 8082	112	30-150	% R	TAJ	10/18/2011
Extraction	EPA 3545	1.0		DF	BAF	10/17/2011
RCRA METALS					LLZ	10/18/2011
Silver	EPA 6010C	<0.36	0.36	mg/kg	LLZ	10/14/2011
Arsenic	EPA 6010C	12	0.60	mg/kg	LLZ	10/18/2011
Barium	EPA 6010C	130	0.30	mg/kg	LLZ	10/18/2011
Cadmium	EPA 6010C	1.6	0.30	mg/kg	LLZ	10/19/2011
Chromium	EPA 6010C	20	0.30	mg/kg	LLZ	10/18/2011
Mercury	EPA 7471B	0.074	0.010	mg/kg	GDD	10/19/2011
Lead	EPA 6010C	52	0.60	mg/kg	LLZ	10/19/2011
Selenium	EPA 6010C	<1.5	1.5	mg/kg	LLZ	10/18/2011
Metals Preparation	EPA 3051	49.0		DFS	AJY	10/14/2011
Metals Preparation	EPA 3051	58.5		DFS	AJY	10/14/2011



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Date Received: **10/13/2011**
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 Work Order No.: **1110-00068**

Sample ID: **SP-18 0-4ft.**

Sample No.: **005**

Sample Date: **10/11/2011**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
PERCENT SOLID		85.2		%	TAJ	10/14/2011
VOLATILE ORGANICS	EPA 8260				MQS	10/20/2011
Dichlorodifluoromethane	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
Chloromethane	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
Vinyl chloride	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Bromomethane	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
Chloroethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Trichlorofluoromethane	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
Diethylether~	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
Acetone	EPA 8260	<1300	1300	ug/kg	MQS	10/20/2011
1,1-Dichloroethene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Carbon disulfide	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
Dichloromethane	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
Methyl tert-butyl ether	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
trans-1,2-Dichloroethene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,1-Dichloroethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
2-Butanone (MEK)	EPA 8260	<1300	1300	ug/kg	MQS	10/20/2011
2,2-Dichloropropane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
cis-1,2-Dichloroethene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Chloroform	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Bromochloromethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Tetrahydrofuran~	EPA 8260	<500	500	ug/kg	MQS	10/20/2011
1,1,1-Trichloroethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,1-Dichloropropene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Carbon tetrachloride	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,2-Dichloroethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Benzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Trichloroethene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,2-Dichloropropane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Bromodichloromethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Dibromomethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
4-Methyl-2-pentanone (MIBK)	EPA 8260	<1300	1300	ug/kg	MQS	10/20/2011
cis-1,3-Dichloropropene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Toluene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011



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Sample ID: **SP-18 0-4ft.**

Sample No.: **005**

Sample Date: **10/11/2011**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
trans-1,3-Dichloropropene	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
1,1,2-Trichloroethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
2-Hexanone	EPA 8260	<1300	1300	ug/kg	MQS	10/20/2011
1,3-Dichloropropane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Tetrachloroethene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Dibromochloromethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,2-Dibromoethane (EDB)	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
Chlorobenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,1,1,2-Tetrachloroethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Ethylbenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
m&p-Xylene	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
o-Xylene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Styrene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Bromoform	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
Isopropylbenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,1,2,2-Tetrachloroethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,2,3-Trichloropropane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Bromobenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
n-Propylbenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
2-Chlorotoluene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,3,5-Trimethylbenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
4-Chlorotoluene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
tert-Butylbenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,2,4-Trimethylbenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
sec-Butylbenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
p-Isopropyltoluene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,3-Dichlorobenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,4-Dichlorobenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
n-Butylbenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,2-Dichlorobenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,2-Dibromo-3-chloropropane	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
1,2,4-Trichlorobenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Hexachlorobutadiene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Naphthalene	EPA 8260	<100	100	ug/kg	MQS	10/20/2011



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Project Name.: **Central Park Plaza**
Project No.: **21.0056630.10**

Date Received: **10/13/2011**
Date Reported: **10/24/2011**
Work Order No.: **1110-00068**

Sample ID: **SP-18 0-4ft.**

Sample No.: **005**

Sample Date: **10/11/2011**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
1,2,3-Trichlorobenzene~	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Surrogates:	EPA 8260					
***1,2-Dichloroethane-D4	EPA 8260	140	* 70-130	% R	MQS	10/20/2011
***Toluene-D8	EPA 8260	136	* 70-130	% R	MQS	10/20/2011
***4-Bromofluorobenzene	EPA 8260	145	* 70-130	% R	MQS	10/20/2011
Preparation	EPA 5035	10		CF	MQS	10/19/2011
BASE-NEUTRAL SVOCS	EPA 8270				CMG	10/24/2011
n-Nitrosodimethylamine	EPA 8270	<330	330	ug/kg	CMG	10/24/2011
bis(2-Chloroethyl)Ether	EPA 8270	<330	330	ug/kg	CMG	10/24/2011
1,3-Dichlorobenzene	EPA 8270	<330	330	ug/kg	CMG	10/24/2011
1,4-Dichlorobenzene	EPA 8270	<330	330	ug/kg	CMG	10/24/2011
Benzyl Alcohol	EPA 8270	<660	660	ug/kg	CMG	10/24/2011
1,2-Dichlorobenzene	EPA 8270	<330	330	ug/kg	CMG	10/24/2011
bis(2-Chloroisopropyl)Ether	EPA 8270	<330	330	ug/kg	CMG	10/24/2011
n-Nitrosodi-n-Propylamine	EPA 8270	<330	330	ug/kg	CMG	10/24/2011
Hexachloroethane	EPA 8270	<330	330	ug/kg	CMG	10/24/2011
Nitrobenzene	EPA 8270	<330	330	ug/kg	CMG	10/24/2011
Isophorone	EPA 8270	<330	330	ug/kg	CMG	10/24/2011
bis(2-Chloroethoxy)Methane	EPA 8270	<330	330	ug/kg	CMG	10/24/2011
1,2,4-Trichlorobenzene	EPA 8270	<330	330	ug/kg	CMG	10/24/2011
Naphthalene	EPA 8270	<330	330	ug/kg	CMG	10/24/2011
4-Chloroaniline	EPA 8270	<660	660	ug/kg	CMG	10/24/2011
Hexachlorobutadiene	EPA 8270	<330	330	ug/kg	CMG	10/24/2011
2-Methylnaphthalene	EPA 8270	<330	330	ug/kg	CMG	10/24/2011
Hexachlorocyclopentadiene	EPA 8270	<1700	1700	ug/kg	CMG	10/24/2011
2-Chloronaphthalene	EPA 8270	<330	330	ug/kg	CMG	10/24/2011
2-Nitroaniline	EPA 8270	<660	660	ug/kg	CMG	10/24/2011
Dimethylphthalate	EPA 8270	<330	330	ug/kg	CMG	10/24/2011
Acenaphthylene	EPA 8270	<330	330	ug/kg	CMG	10/24/2011
2,6-Dinitrotoluene	EPA 8270	<330	330	ug/kg	CMG	10/24/2011
3-Nitroaniline	EPA 8270	<660	660	ug/kg	CMG	10/24/2011
Acenaphthene	EPA 8270	<330	330	ug/kg	CMG	10/24/2011
Dibenzofuran	EPA 8270	<330	330	ug/kg	CMG	10/24/2011
2,4-Dinitrotoluene	EPA 8270	<330	330	ug/kg	CMG	10/24/2011



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 Work Order No.: **1110-00068**

Sample ID: **SP-18 0-4ft.**

Sample No.: **005**

Sample Date: **10/11/2011**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
Diethylphthalate	EPA 8270	<330	330	ug/kg	CMG	10/24/2011
Fluorene	EPA 8270	<330	330	ug/kg	CMG	10/24/2011
4-Chlorophenyl Phenyl Ether	EPA 8270	<330	330	ug/kg	CMG	10/24/2011
4-Nitroaniline	EPA 8270	<660	660	ug/kg	CMG	10/24/2011
n-Nitrosodiphenylamine	EPA 8270	<330	330	ug/kg	CMG	10/24/2011
4-Bromophenyl Phenyl Ether	EPA 8270	<330	330	ug/kg	CMG	10/24/2011
Hexachlorobenzene	EPA 8270	<330	330	ug/kg	CMG	10/24/2011
Phenanthrene	EPA 8270	1000	330	ug/kg	CMG	10/24/2011
Anthracene	EPA 8270	<330	330	ug/kg	CMG	10/24/2011
Carbazole	EPA 8270	<330	330	ug/kg	CMG	10/24/2011
di-n-Butylphthalate	EPA 8270	<500	500	ug/kg	CMG	10/24/2011
Fluoranthene	EPA 8270	1400	330	ug/kg	CMG	10/24/2011
Pyrene	EPA 8270	1200	330	ug/kg	CMG	10/24/2011
Butylbenzylphthalate	EPA 8270	<330	330	ug/kg	CMG	10/24/2011
Benzo [a] Anthracene	EPA 8270	660	330	ug/kg	CMG	10/24/2011
3,3'-Dichlorobenzidine	EPA 8270	<660	660	ug/kg	CMG	10/24/2011
Chrysene	EPA 8270	520	330	ug/kg	CMG	10/24/2011
bis(2-Ethylhexyl)Phthalate	EPA 8270	<330	330	ug/kg	CMG	10/24/2011
di-n-Octylphthalate	EPA 8270	<330	330	ug/kg	CMG	10/24/2011
Benzo [b] Fluoranthene	EPA 8270	550	330	ug/kg	CMG	10/24/2011
Benzo [k] Fluoranthene	EPA 8270	<330	330	ug/kg	CMG	10/24/2011
Benzo [a] Pyrene	EPA 8270	370	330	ug/kg	CMG	10/24/2011
Indeno [1,2,3-cd] Pyrene	EPA 8270	<330	330	ug/kg	CMG	10/24/2011
Dibenzo [a,h] Anthracene	EPA 8270	<330	330	ug/kg	CMG	10/24/2011
Benzo [g,h,i] Perylene	EPA 8270	<330	330	ug/kg	CMG	10/24/2011
Surrogates:	EPA 8270					
***Nitrobenzene-D5	EPA 8270	48.2	25-87	% R	CMG	10/24/2011
***2-Fluorobiphenyl	EPA 8270	46.3	30-130	% R	CMG	10/24/2011
***p-Terphenyl-D14	EPA 8270	60.2	30-130	% R	CMG	10/24/2011
Extraction	EPA 3545	1.0		DF	BAF	10/18/2011
POLYCHLORINATED BIPHENYLS	EPA 8082				TAJ	10/18/2011
Aroclor 1268	EPA 8082	<100	100	ug/kg	TAJ	10/18/2011
Aroclor 1262	EPA 8082	<100	100	ug/kg	TAJ	10/18/2011
Aroclor 1260	EPA 8082	<100	100	ug/kg	TAJ	10/18/2011



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Sample No.: **005**

Sample Date: **10/11/2011**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
Aroclor 1254	EPA 8082	<100	100	ug/kg	TAJ	10/18/2011
Aroclor 1248	EPA 8082	<100	100	ug/kg	TAJ	10/18/2011
Aroclor 1242/1016	EPA 8082	<100	100	ug/kg	TAJ	10/18/2011
Aroclor 1232	EPA 8082	<100	100	ug/kg	TAJ	10/18/2011
Aroclor 1221	EPA 8082	<100	100	ug/kg	TAJ	10/18/2011
Surrogates:	EPA 8082					
***Tetrachloro-m-xylene	EPA 8082	80.5	30-150	% R	TAJ	10/18/2011
***Tetrachloro-m-xylene	EPA 8082	82.6	30-150	% R	TAJ	10/18/2011
***Decachlorobiphenyl	EPA 8082	118	30-150	% R	TAJ	10/18/2011
***Decachlorobiphenyl	EPA 8082	120	30-150	% R	TAJ	10/18/2011
Extraction	EPA 3545	1.0		DF	BAF	10/17/2011
RCRA METALS					LLZ	10/18/2011
Silver	EPA 6010C	<0.41	0.41	mg/kg	LLZ	10/14/2011
Arsenic	EPA 6010C	13	0.78	mg/kg	LLZ	10/18/2011
Barium	EPA 6010C	310	0.39	mg/kg	LLZ	10/18/2011
Cadmium	EPA 6010C	1.3	0.39	mg/kg	LLZ	10/19/2011
Chromium	EPA 6010C	16	0.39	mg/kg	LLZ	10/18/2011
Mercury	EPA 7471B	0.046	0.011	mg/kg	GDD	10/19/2011
Lead	EPA 6010C	20	0.78	mg/kg	LLZ	10/19/2011
Selenium	EPA 6010C	<2.0	2.0	mg/kg	LLZ	10/18/2011
Metals Preparation	EPA 3051	66.6		DFS	AJY	10/14/2011
Metals Preparation	EPA 3051	69.9		DFS	AJY	10/14/2011



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Sample ID: **SP-19 0-4ft.**

Sample No.: **006**

Sample Date: **10/11/2011**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
PERCENT SOLID		84.1		%	TAJ	10/14/2011
VOLATILE ORGANICS	EPA 8260				MQS	10/20/2011
Dichlorodifluoromethane	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
Chloromethane	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
Vinyl chloride	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Bromomethane	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
Chloroethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Trichlorofluoromethane	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
Diethylether~	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
Acetone	EPA 8260	<1300	1300	ug/kg	MQS	10/20/2011
1,1-Dichloroethene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Carbon disulfide	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
Dichloromethane	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
Methyl tert-butyl ether	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
trans-1,2-Dichloroethene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,1-Dichloroethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
2-Butanone (MEK)	EPA 8260	<1300	1300	ug/kg	MQS	10/20/2011
2,2-Dichloropropane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
cis-1,2-Dichloroethene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Chloroform	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Bromochloromethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Tetrahydrofuran~	EPA 8260	<500	500	ug/kg	MQS	10/20/2011
1,1,1-Trichloroethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,1-Dichloropropene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Carbon tetrachloride	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,2-Dichloroethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Benzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Trichloroethene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,2-Dichloropropane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Bromodichloromethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Dibromomethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
4-Methyl-2-pentanone (MIBK)	EPA 8260	<1300	1300	ug/kg	MQS	10/20/2011
cis-1,3-Dichloropropene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Toluene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011



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Sample ID: **SP-19 0-4ft.**

Sample No.: **006**

Sample Date: **10/11/2011**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
trans-1,3-Dichloropropene	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
1,1,2-Trichloroethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
2-Hexanone	EPA 8260	<1300	1300	ug/kg	MQS	10/20/2011
1,3-Dichloropropane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Tetrachloroethene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Dibromochloromethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,2-Dibromoethane (EDB)	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
Chlorobenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,1,1,2-Tetrachloroethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Ethylbenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
m&p-Xylene	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
o-Xylene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Styrene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Bromoform	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
Isopropylbenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,1,2,2-Tetrachloroethane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,2,3-Trichloropropane	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Bromobenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
n-Propylbenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
2-Chlorotoluene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,3,5-Trimethylbenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
4-Chlorotoluene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
tert-Butylbenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,2,4-Trimethylbenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
sec-Butylbenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
p-Isopropyltoluene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,3-Dichlorobenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,4-Dichlorobenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
n-Butylbenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,2-Dichlorobenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
1,2-Dibromo-3-chloropropane	EPA 8260	<100	100	ug/kg	MQS	10/20/2011
1,2,4-Trichlorobenzene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Hexachlorobutadiene	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Naphthalene	EPA 8260	<100	100	ug/kg	MQS	10/20/2011



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Sample Date: **10/11/2011**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
1,2,3-Trichlorobenzene~	EPA 8260	<50	50	ug/kg	MQS	10/20/2011
Surrogates:	EPA 8260					
***1,2-Dichloroethane-D4	EPA 8260	135	* 70-130	% R	MQS	10/20/2011
***Toluene-D8	EPA 8260	123	70-130	% R	MQS	10/20/2011
***4-Bromofluorobenzene	EPA 8260	134	* 70-130	% R	MQS	10/20/2011
Preparation	EPA 5035	10		CF	MQS	10/19/2011
BASE-NEUTRAL SVOCS	EPA 8270				CMG	10/23/2011
n-Nitrosodimethylamine	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
bis(2-Chloroethyl)Ether	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
1,3-Dichlorobenzene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
1,4-Dichlorobenzene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Benzyl Alcohol	EPA 8270	<660	660	ug/kg	CMG	10/23/2011
1,2-Dichlorobenzene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
bis(2-Chloroisopropyl)Ether	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
n-Nitrosodi-n-Propylamine	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Hexachloroethane	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Nitrobenzene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Isophorone	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
bis(2-Chloroethoxy)Methane	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
1,2,4-Trichlorobenzene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Naphthalene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
4-Chloroaniline	EPA 8270	<660	660	ug/kg	CMG	10/23/2011
Hexachlorobutadiene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
2-Methylnaphthalene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Hexachlorocyclopentadiene	EPA 8270	<1700	1700	ug/kg	CMG	10/23/2011
2-Chloronaphthalene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
2-Nitroaniline	EPA 8270	<660	660	ug/kg	CMG	10/23/2011
Dimethylphthalate	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Acenaphthylene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
2,6-Dinitrotoluene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
3-Nitroaniline	EPA 8270	<660	660	ug/kg	CMG	10/23/2011
Acenaphthene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Dibenzofuran	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
2,4-Dinitrotoluene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011



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Sample Date: **10/11/2011**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
Diethylphthalate	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Fluorene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
4-Chlorophenyl Phenyl Ether	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
4-Nitroaniline	EPA 8270	<660	660	ug/kg	CMG	10/23/2011
n-Nitrosodiphenylamine	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
4-Bromophenyl Phenyl Ether	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Hexachlorobenzene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Phenanthrene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Anthracene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Carbazole	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
di-n-Butylphthalate	EPA 8270	<500	500	ug/kg	CMG	10/23/2011
Fluoranthene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Pyrene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Butylbenzylphthalate	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Benzo [a] Anthracene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
3,3'-Dichlorobenzidine	EPA 8270	<660	660	ug/kg	CMG	10/23/2011
Chrysene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
bis(2-Ethylhexyl)Phthalate	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
di-n-Octylphthalate	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Benzo [b] Fluoranthene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Benzo [k] Fluoranthene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Benzo [a] Pyrene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Indeno [1,2,3-cd] Pyrene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Dibenzo [a,h] Anthracene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Benzo [g,h,i] Perylene	EPA 8270	<330	330	ug/kg	CMG	10/23/2011
Surrogates:	EPA 8270					
***Nitrobenzene-D5	EPA 8270	61.1	25-87	% R	CMG	10/23/2011
***2-Fluorobiphenyl	EPA 8270	59.7	30-130	% R	CMG	10/23/2011
***p-Terphenyl-D14	EPA 8270	67.4	30-130	% R	CMG	10/23/2011
Extraction	EPA 3545	1.0		DF	BAF	10/18/2011
POLYCHLORINATED BIPHENYLS	EPA 8082				TAJ	10/18/2011
Aroclor 1268	EPA 8082	<100	100	ug/kg	TAJ	10/18/2011
Aroclor 1262	EPA 8082	<100	100	ug/kg	TAJ	10/18/2011
Aroclor 1260	EPA 8082	<100	100	ug/kg	TAJ	10/18/2011



ANALYTICAL REPORT

GZA GeoEnvironmental of NY
 535 Washington Street
 11th Floor
 Buffalo, NY 14203-1415
 Chris Boron

Project Name.: **Central Park Plaza**
 Project No.: **21.0056630.10**

Date Received: **10/13/2011**
 Date Reported: **10/24/2011**
 Work Order No.: **1110-00068**

Sample ID: **SP-19 0-4ft.**

Sample No.: **006**

Sample Date: **10/11/2011**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
Aroclor 1254	EPA 8082	<100	100	ug/kg	TAJ	10/18/2011
Aroclor 1248	EPA 8082	<100	100	ug/kg	TAJ	10/18/2011
Aroclor 1242/1016	EPA 8082	<100	100	ug/kg	TAJ	10/18/2011
Aroclor 1232	EPA 8082	<100	100	ug/kg	TAJ	10/18/2011
Aroclor 1221	EPA 8082	<100	100	ug/kg	TAJ	10/18/2011
Surrogates:	EPA 8082					
***Tetrachloro-m-xylene	EPA 8082	80.7	30-150	% R	TAJ	10/18/2011
***Tetrachloro-m-xylene	EPA 8082	83.8	30-150	% R	TAJ	10/18/2011
***Decachlorobiphenyl	EPA 8082	123	30-150	% R	TAJ	10/18/2011
***Decachlorobiphenyl	EPA 8082	130	30-150	% R	TAJ	10/18/2011
Extraction	EPA 3545	1.0		DF	BAF	10/17/2011
RCRA METALS					LLZ	10/18/2011
Silver	EPA 6010C	<0.34	0.34	mg/kg	LLZ	10/14/2011
Arsenic	EPA 6010C	13	0.63	mg/kg	LLZ	10/18/2011
Barium	EPA 6010C	330	0.31	mg/kg	LLZ	10/18/2011
Cadmium	EPA 6010C	2.0	0.31	mg/kg	LLZ	10/19/2011
Chromium	EPA 6010C	18	0.31	mg/kg	LLZ	10/18/2011
Mercury	EPA 7471B	0.013	0.011	mg/kg	GDD	10/19/2011
Lead	EPA 6010C	5.9	0.63	mg/kg	LLZ	10/19/2011
Selenium	EPA 6010C	<1.6	1.6	mg/kg	LLZ	10/18/2011
Metals Preparation	EPA 3051	52.9		DFS	AJY	10/14/2011
Metals Preparation	EPA 3051	56.6		DFS	AJY	10/14/2011

ESS LABORATORY, DIVISION OF THIELSCH ENGINEERING
ENVIRONMENTAL CHEMISTRY LABORATORY
106 SOUTH ST, HOPKINTON, MA 01748
MASSACHUSETTS LABORATORY I.D. NO. MA092

EPA METHOD 6010C ANALYSIS

Metals by ICP

QUALITY CONTROL - SOLID

DATE PREPARED: 10/14/2011 A

QC Sample	Method Blank	Lab Control Sample	LCS CRM	
Units	mg/kg	% Recovery	Acceptance Limits	
Acceptance Limits	Results	Varies	Lower	Upper
Analyte				
Silver (Ag)	NA	NA	84.8	115
Aluminum (Al)	NA	NA	38.8	161
Arsenic (As)	<1.00	107	77.6	123
Boron (B)	NA	NA	77.8	122
Barium (Ba)	<0.500	101	78.7	121
Beryllium (Be)	NA	NA	83.2	117
Calcium (Ca)	NA	NA	77.7	122
Cadmium (Cd)	<0.500	108	80.7	119
Cobalt (Co)	NA	NA	79.7	120
Chromium (Cr)	<0.500	106	83.7	116
Copper (Cu)	NA	NA	81.9	118
Iron (Fe)	NA	NA	81.3	119
Magnesium (Mg)	NA	NA	71.0	129
Manganese (Mn)	NA	NA	75.2	125
Molybdenum (Mo)	NA	NA	81.9	118
Nickel (Ni)	NA	NA	78.3	122
Lead (Pb)	<1.00	104	76.2	124
Antimony (Sb)	NA	NA	18.9	181
Selenium (Se)	<2.50	113	73.6	126
Tin (Sn)	NA	NA	76.9	123
Titanium (Ti)	NA	NA	59.3	141
Thallium (Tl)	NA	NA	77.0	123
Vanadium (V)	NA	NA	80.2	120
Zinc (Zn)	NA	NA	76.1	124

RPD = Relative Percent Difference

NA = Not Applicable

NC = Not Calculated

CRM = Certified Reference Material

ESS LABORATORY, DIVISION OF THIELSCH ENGINEERING
 ENVIRONMENTAL CHEMISTRY LABORATORY
 106 SOUTH ST, HOPKINTON, MA 01748
 MASSACHUSETTS LABORATORY I.D. NO. MA092

EPA METHOD 6010C ANALYSIS

Metals by ICP

QUALITY CONTROL - SOLID

DATE PREPARED: 10/14/2011 B

QC Sample	Method Blank	Lab Control Sample	LCS CRM	
Units	mg/kg	% Recovery	Acceptance Limits	
Acceptance Limits	Results	Varies	Lower	Upper
Analyte				
Silver (Ag)	<0.500	101	84.8	115
Aluminum (Al)	NA	NA	38.8	161
Arsenic (As)	NA	NA	77.6	123
Boron (B)	NA	NA	77.8	122
Barium (Ba)	NA	NA	78.7	121
Beryllium (Be)	NA	NA	83.2	117
Calcium (Ca)	NA	NA	77.7	122
Cadmium (Cd)	NA	NA	80.7	119
Cobalt (Co)	NA	NA	79.7	120
Chromium (Cr)	NA	NA	83.7	116
Copper (Cu)	NA	NA	81.9	118
Iron (Fe)	NA	NA	81.3	119
Magnesium (Mg)	NA	NA	71.0	129
Manganese (Mn)	NA	NA	75.2	125
Molybdenum (Mo)	NA	NA	81.9	118
Nickel (Ni)	NA	NA	78.3	122
Lead (Pb)	NA	NA	76.2	124
Antimony (Sb)	NA	NA	18.9	181
Selenium (Se)	NA	NA	73.6	126
Tin (Sn)	NA	NA	76.9	123
Titanium (Ti)	NA	NA	59.3	141
Thallium (Tl)	NA	NA	77.0	123
Vanadium (V)	NA	NA	80.2	120
Zinc (Zn)	NA	NA	76.1	124

RPD = Relative Percent Difference

NA = Not Applicable

NC = Not Calculated

CRM = Certified Reference Material

SS LABORATORY, DIVISION of THIELSCH ENGINEERING
ENVIRONMENTAL CHEMISTRY LABORATORY
106 SOUTH ST, HOPKINTON, MA 01748
MASSACHUSETTS LABORATORY I.D. NO. MA092

EPA METHOD 7471B ANALYSIS
Mercury by Cold Vapor Atomic Absorption

QUALITY CONTROL - Solid

Date Prepared: 10/19/11

QC Sample	Method Blank	Lab Control Sample
Units	mg/kg	% Recovery
Acceptance Limits	Results	68-131

Analyte

Mercury (Hg)	<0.020	109
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RPD = Relative Percent Difference

LCS recovery limits are the suppliers 95% confidence Limits.

LCS Certified concentration (mg/Kg): 0.71

ESS LABORATORY-HOPKINTON
106 SOUTH STREET, HOPKINTON, MA 01748
MASSACHUSETTS LABORATORY I.D. NO. MA092

EPA METHOD 8082 ANALYSIS
QUALITY CONTROL SOLID

DATE EXTRACTED: 10/17/2011

DATE ANALYZED: 10/17/2011

METHOD BLANK	Concentration	Quantitation Limit
POLYCHLORINATED BIPHENYLS as AROCLORS	ug/kg-PPB	ug/kg-PPB
Aroclor 1268	ND	100
Aroclor 1262	ND	100
Aroclor 1260	ND	100
Aroclor 1254	ND	100
Aroclor 1248	ND	100
Aroclor 1242/1016	ND	100
Aroclor 1232	ND	100
Aroclor 1221	ND	100
Surrogates:	(A) (B)	
Tetrachloro-m-xylene	105 110	30-150
Decachlorobiphenyl	123 130	30-150

LABORATORY CONTROL SAMPLE (LCS)	% Recovery		Acceptance Limits
Aroclor 1016	104	82.8	40-140
Aroclor 1260	116	104	40-140
Surrogates:			
Tetrachloro-m-xylene	90.0	90.9	30-150
Decachlorobiphenyl	120	126	30-150

LABORATORY CONTROL SAMPLE DUPLICATE (LCSD)	% Recovery		Acceptance Limits
Aroclor 1016	89.5	71.4	40-140
Aroclor 1260	96.4	87.4	40-140
Surrogates:			
Tetrachloro-m-xylene	81.8	83.6	30-150
Decachlorobiphenyl	115	121	30-150

RELATIVE PERCENT DIFFERENCE (RPD)	RPD		Acceptance Limits
Aroclor 1016	15.0	14.8	<30
Aroclor 1260	18.5	17.3	<30
Surrogates:			
Tetrachloro-m-xylene	9.55	8.37	<30
Decachlorobiphenyl	4.26	4.05	<30

*Matrix Spike/Duplicate Spike performed as per method and reported if assigned on Chain of Custody.

Method Blank

Laboratory Control Sample

Laboratory Control Sample Duplicate

Date Analyzed:	10/20/2011		Date Analyzed:	10/20/11			10/20/11					
Volatiles Organics	Conc. ug/kg	Acceptance Limit	Spike Concentration = 2500ug/kg	% Recovery	Acceptance Limits	Verdict	% Recovery	Acceptance Limits	Verdict	RPD	Limit	Verdict
dichlorodifluoromethane	< 100	< 100	dichlorodifluoromethane	109	70-130	ok	100	70-130	ok	8.56	<25	ok
chloromethane	< 100	< 100	chloromethane	99.9	70-130	ok	93.1	70-130	ok	7.05	<25	ok
vinyl chloride	< 50	< 50	vinyl chloride	93.2	70-130	ok	85.9	70-130	ok	8.13	<25	ok
bromomethane	< 100	< 100	bromomethane	61.8	70-130	out	57.3	70-130	out	7.54	<25	ok
chloroethane	< 50	< 50	chloroethane	69.0	70-130	out	64.1	70-130	out	7.44	<25	ok
trichlorofluoromethane	< 100	< 100	trichlorofluoromethane	82.5	70-130	ok	75.0	70-130	ok	9.57	<25	ok
diethyl ether	< 250	< 250	diethyl ether	75.1	70-130	ok	71.9	70-130	ok	4.29	<25	ok
acetone	< 1000	< 1000	acetone	82.9	70-130	ok	84.0	70-130	ok	1.25	<25	ok
1,1-dichloroethene	< 50	< 50	1,1-dichloroethene	90.6	70-130	ok	87.5	70-130	ok	3.56	<25	ok
carbon disulfide	< 500	< 500	carbon disulfide	73.9	70-130	ok	67.6	70-130	out	8.95	<25	ok
dichloromethane	< 100	< 100	dichloromethane	91.4	70-130	ok	86.7	70-130	ok	5.30	<25	ok
methyl-tert-butyl-ether	< 50	< 50	methyl-tert-butyl-ether	94.6	70-130	ok	91.5	70-130	ok	3.34	<25	ok
trans-1,2-dichloroethene	< 50	< 50	trans-1,2-dichloroethene	97.7	70-130	ok	92.5	70-130	ok	5.53	<25	ok
1,1-dichloroethane	< 50	< 50	1,1-dichloroethane	99.6	70-130	ok	96.0	70-130	ok	3.68	<25	ok
2-butanone	< 1000	< 1000	2-butanone	103	70-130	ok	97.9	70-130	ok	5.44	<25	ok
2,2-dichloropropane	< 50	< 50	2,2-dichloropropane	76.3	70-130	ok	71.4	70-130	ok	6.66	<25	ok
cis-1,2-dichloroethene	< 50	< 50	cis-1,2-dichloroethene	105	70-130	ok	102	70-130	ok	3.16	<25	ok
chloroform	< 50	< 50	chloroform	98.4	70-130	ok	94.9	70-130	ok	3.63	<25	ok
bromochloromethane	< 50	< 50	bromochloromethane	105	70-130	ok	101	70-130	ok	3.98	<25	ok
tetrahydrofuran	< 500	< 500	tetrahydrofuran	103	70-130	ok	95.7	70-130	ok	7.06	<25	ok
1,1,1-trichloroethane	< 50	< 50	1,1,1-trichloroethane	107	70-130	ok	99.8	70-130	ok	6.66	<25	ok
1,1-dichloropropene	< 50	< 50	1,1-dichloropropene	104	70-130	ok	98.8	70-130	ok	5.29	<25	ok
carbon tetrachloride	< 50	< 50	carbon tetrachloride	105	70-130	ok	97.4	70-130	ok	7.46	<25	ok
1,2-dichloroethane	< 50	< 50	1,2-dichloroethane	99.0	70-130	ok	94.2	70-130	ok	4.93	<25	ok
benzene	< 50	< 50	benzene	103	70-130	ok	98.6	70-130	ok	4.37	<25	ok
trichloroethene	< 50	< 50	trichloroethene	104	70-130	ok	101	70-130	ok	2.63	<25	ok
1,2-dichloropropane	< 50	< 50	1,2-dichloropropane	101	70-130	ok	98.5	70-130	ok	2.67	<25	ok
bromodichloromethane	< 50	< 50	bromodichloromethane	106	70-130	ok	98.7	70-130	ok	6.87	<25	ok
dibromomethane	< 50	< 50	dibromomethane	107	70-130	ok	103	70-130	ok	3.86	<25	ok
4-methyl-2-pentanone	< 1000	< 1000	4-methyl-2-pentanone	101	70-130	ok	95.2	70-130	ok	5.86	<25	ok
cis-1,3-dichloropropene	< 50	< 50	cis-1,3-dichloropropene	102	70-130	ok	95.4	70-130	ok	6.94	<25	ok
toluene	< 50	< 50	toluene	101	70-130	ok	99.4	70-130	ok	1.48	<25	ok
trans-1,3-dichloropropene	< 100	< 100	trans-1,3-dichloropropene	93.4	70-130	ok	90.0	70-130	ok	3.67	<25	ok
1,1,2-trichloroethane	< 50	< 50	1,1,2-trichloroethane	100	70-130	ok	98.5	70-130	ok	1.74	<25	ok
2-hexanone	< 1000	< 1000	2-hexanone	103	70-130	ok	101	70-130	ok	2.19	<25	ok
1,3-dichloropropane	< 50	< 50	1,3-dichloropropane	98.4	70-130	ok	95.6	70-130	ok	2.92	<25	ok
tetrachloroethene	< 50	< 50	tetrachloroethene	103	70-130	ok	105	70-130	ok	1.34	<25	ok
dibromochloromethane	< 50	< 50	dibromochloromethane	100	70-130	ok	101	70-130	ok	0.51	<25	ok
1,2-dibromoethane (EDB)	< 100	< 100	1,2-dibromoethane (EDB)	102	70-130	ok	103	70-130	ok	0.60	<25	ok
chlorobenzene	< 50	< 50	chlorobenzene	101	70-130	ok	102	70-130	ok	0.87	<25	ok
1,1,1,2-tetrachloroethane	< 50	< 50	1,1,1,2-tetrachloroethane	99.0	70-130	ok	99.8	70-130	ok	0.86	<25	ok
ethylbenzene	< 50	< 50	ethylbenzene	101	70-130	ok	99.8	70-130	ok	0.98	<25	ok
1,1,2,2-tetrachloroethane	< 50	< 50	1,1,2,2-tetrachloroethane	102	70-130	ok	102	70-130	ok	0.60	<25	ok
m&p-xylene	< 100	< 100	m&p-xylene	103	70-130	ok	99.7	70-130	ok	3.18	<25	ok
o-xylene	< 50	< 50	o-xylene	103	70-130	ok	105	70-130	ok	2.64	<25	ok
styrene	< 50	< 50	styrene	105	70-130	ok	108	70-130	ok	2.79	<25	ok
bromoform	< 100	< 100	bromoform	105	70-130	ok	109	70-130	ok	3.92	<25	ok
isopropylbenzene	< 50	< 50	isopropylbenzene	104	70-130	ok	107	70-130	ok	3.05	<25	ok
1,2,3-trichloropropane	< 50	< 50	1,2,3-trichloropropane	104	70-130	ok	106	70-130	ok	1.86	<25	ok
bromobenzene	< 50	< 50	bromobenzene	106	70-130	ok	110	70-130	ok	3.84	<25	ok
n-propylbenzene	< 50	< 50	n-propylbenzene	106	70-130	ok	107	70-130	ok	0.52	<25	ok
2-chlorotoluene	< 50	< 50	2-chlorotoluene	102	70-130	ok	104	70-130	ok	1.93	<25	ok
1,3,5-trimethylbenzene	< 50	< 50	1,3,5-trimethylbenzene	106	70-130	ok	109	70-130	ok	3.03	<25	ok
4-chlorotoluene	< 50	< 50	4-chlorotoluene	103	70-130	ok	107	70-130	ok	3.80	<25	ok
tert-butyl-benzene	< 50	< 50	tert-butyl-benzene	107	70-130	ok	109	70-130	ok	2.15	<25	ok
1,2,4-trimethylbenzene	< 50	< 50	1,2,4-trimethylbenzene	108	70-130	ok	110	70-130	ok	2.05	<25	ok
sec-butyl-benzene	< 50	< 50	sec-butyl-benzene	108	70-130	ok	108	70-130	ok	0.39	<25	ok
p-isopropyltoluene	< 50	< 50	p-isopropyltoluene	108	70-130	ok	110	70-130	ok	1.68	<25	ok
1,3-dichlorobenzene	< 50	< 50	1,3-dichlorobenzene	106	70-130	ok	107	70-130	ok	0.26	<25	ok
1,4-dichlorobenzene	< 50	< 50	1,4-dichlorobenzene	106	70-130	ok	108	70-130	ok	1.29	<25	ok
n-butylbenzene	< 50	< 50	n-butylbenzene	108	70-130	ok	108	70-130	ok	0.23	<25	ok
1,2-dichlorobenzene	< 50	< 50	1,2-dichlorobenzene	104	70-130	ok	107	70-130	ok	3.48	<25	ok
1,2-dibromo-3-chloropropane	< 250	< 250	1,2-dibromo-3-chloropropane	108	70-130	ok	109	70-130	ok	1.68	<25	ok
1,2,4-trichlorobenzene	< 50	< 50	1,2,4-trichlorobenzene	112	70-130	ok	118	70-130	ok	5.27	<25	ok
hexachlorobutadiene	< 50	< 50	hexachlorobutadiene	108	70-130	ok	110	70-130	ok	1.32	<25	ok
naphthalene	< 100	< 100	naphthalene	111	70-130	ok	115	70-130	ok	3.25	<25	ok
Surrogates:	Recovery (%)	Acceptance Limits	Surrogates:	Recovery (%)	Acceptance Limits	Verdict	Recovery (%)	Acceptance Limits	Verdict	RPD	Limit	Verdict
DIBROMOFLUOROMETHANE	105	70-130	DIBROMOFLUOROMETHANE	111	70-130	ok	104	70-130	ok	5.81	<25	ok
1,2-DICHLOROETHANE-D4	109	70-130	1,2-DICHLOROETHANE-D4	107	70-130	ok	105	70-130	ok	1.91	<25	ok
TOLUENE-D8	109	70-130	TOLUENE-D8	112	70-130	ok	106	70-130	ok	5.88	<25	ok
4-BROMOFLUOROBENZENE	106	70-130	4-BROMOFLUOROBENZENE	114	70-130	ok	117	70-130	ok	2.79	<25	ok

EPA Method 8270 Solid Method Blank (MB) and Laboratory Control Sample (LCS) Data

Method Blank

Date Extracted:	10/18/11	
Date Analyzed:	10/22/2011	
File Name:	M9825	
Semi-Volatile Organics	Result	Reporting
n-nitrosodimethylamine	ND	330
bis(2-chloroethyl)ether	ND	330
1,3-dichlorobenzene	ND	330
1,4-dichlorobenzene	ND	330
benzyl alcohol	ND	660
1,2-dichlorobenzene	ND	330
bis(2-chloroisopropyl)ether	ND	330
n-nitrosodi-n-propylamine	ND	330
hexachloroethane	ND	330
nitrobenzene	ND	330
isophrone	ND	330
bis(2-chloroethoxy)methane	ND	330
1,2,4-trichlorobenzene	ND	330
naphthalene	ND	330
4-chloroaniline	ND	660
hexachlorobutadiene	ND	330
2-methylnaphthalene	ND	330
aniline	ND	330
hexachlorocyclopentadiene	ND	1700
2-chloronaphthalene	ND	330
2-nitroaniline	ND	1700
dimethylphthalate	ND	330
acenaphthylene	ND	330
2,6-dinitrotoluene	ND	330
3-nitroaniline	ND	1700
acenaphthene	ND	330
dibenzofuran	ND	330
2,4-dinitrotoluene	ND	330
diethylphthalate	ND	330
fluorene	ND	330
4-chlorophenyl phenyl ether	ND	330
4-nitroaniline	ND	660
n-nitrosodiphenylamine	ND	330
4-bromophenyl phenyl ether	ND	330
hexachlorobenzene	ND	330
phenanthrene	ND	330
anthracene	ND	330
carbazole	ND	330
di-n-butylphthalate	ND	500
fluoranthene	ND	330
pyrene	ND	330
butylbenzylphthalate	ND	330
benz [a] anthracene	ND	330
3,3'-dichlorobenzidine	ND	660
chrysene	ND	330
bis(2-ethylhexyl)phthalate	ND	330
di-n-octylphthalate	ND	330
benzo [b] fluoranthene	ND	330
benzo [k] fluoranthene	ND	330
benzo [a] pyrene	ND	330
indeno [1,2,3-cd] pyrene	ND	330
dibenz [a,h] anthracene	ND	330
benzo [ghi] perylene	ND	330

Surrogates:	Recovery (%)	Acceptance Limi
NITROBENZENE-D5	48.0	30-130
2-FLUOROBIPHENYL	46.5	30-130
p-TERPHENYL-D14	76.2	30-130

EPA Method 8270 Solid Method Blank (MB) and Laboratory Control Sample (LCS) Data

Laboratory Control Sample

Date Extracted:	10/18/11		
Date Analyzed:	10/22/2011		
File Name:	M9826		
Spike Concentration = 20u	% Recovery	Acceptance Limits	Verdict
n-nitrosodimethylamine	45.0	40-140	ok
bis(2-chloroethyl)ether	46.0	40-140	ok
1,3-dichlorobenzene	48.6	40-140	ok
1,4-dichlorobenzene	50.0	40-140	ok
benzyl alcohol	50.7	30-140	ok
1,2-dichlorobenzene	48.6	40-140	ok
bis(2-chloroisopropyl)ether	51.7	40-140	ok
n-nitrosodi-n-propylamine	51.5	40-140	ok
hexachloroethane	48.0	40-140	ok
nitrobenzene	54.0	40-140	ok
isophrone	51.3	40-140	ok
bis(2-chloroethoxy)methane	50.4	40-140	ok
1,2,4-trichlorobenzene	50.9	40-140	ok
naphthalene	50.2	40-140	ok
4-chloroaniline	46.7	40-140	ok
hexachlorobutadiene	50.9	40-140	ok
2-methylnaphthalene	58.4	40-140	ok
aniline	41.2	40-140	ok
hexachlorocyclopentadiene	40.3	40-140	ok
2-chloronaphthalene	53.3	40-140	ok
2-nitroaniline	53.5	40-140	ok
dimethylphthalate	61.1	40-140	ok
acenaphthylene	54.6	40-140	ok
2,6-dinitrotoluene	58.8	40-140	ok
3-nitroaniline	55.1	40-140	ok
acenaphthene	54.8	40-140	ok
dibenzofuran	55.4	40-140	ok
2,4-dinitrotoluene	67.7	40-140	ok
diethylphthalate	65.2	40-140	ok
fluorene	59.6	40-140	ok
4-chlorophenyl phenyl ether	54.6	40-140	ok
4-nitroaniline	72.3	40-140	ok
n-nitrosodiphenylamine	62.1	40-140	ok
4-bromophenyl phenyl ether	61.0	40-140	ok
hexachlorobenzene	64.2	40-140	ok
phenanthrene	65.3	40-140	ok
anthracene	65.2	40-140	ok
carbazole	73.5	40-140	ok
di-n-butylphthalate	72.1	40-140	ok
fluoranthene	72.7	40-140	ok
pyrene	75.4	40-140	ok
butylbenzylphthalate	73.4	40-140	ok
benz [a] anthracene	71.9	40-140	ok
3,3'-dichlorobenzidine	88.2	40-140	ok
chrysene	73.0	40-140	ok
bis(2-ethylhexyl)phthalate	74.9	40-140	ok
di-n-octylphthalate	72.7	40-140	ok
benzo [b] fluoranthene	69.6	40-140	ok
benzo [k] fluoranthene	78.9	40-140	ok
benzo [a] pyrene	79.9	40-140	ok
indeno [1,2,3-cd] pyrene	73.5	40-140	ok
dibenz [a,h] anthracene	70.4	40-140	ok
benzo [ghi] perylene	73.0	40-140	ok

Surrogates:	Recovery (%)	Acceptance Limits	Verdict
NITROBENZENE-D5	49.4	30-130	ok
2-FLUOROBIPHENYL	49.8	30-130	ok
p-TERPHENYL-D14	72.8	30-130	ok

Quantitation Report

Data File : C:\HPCHEM\DATA\M9872.D
 Acq On : 24 Oct 2011 00:34
 Sample : dil 1110-00068-002 df=10/15
 Misc : BAF e:10/18/11 bn IS: A082763
 MS Integration Params: INTP58.P
 Quant Time: Oct 24 11:23 2011

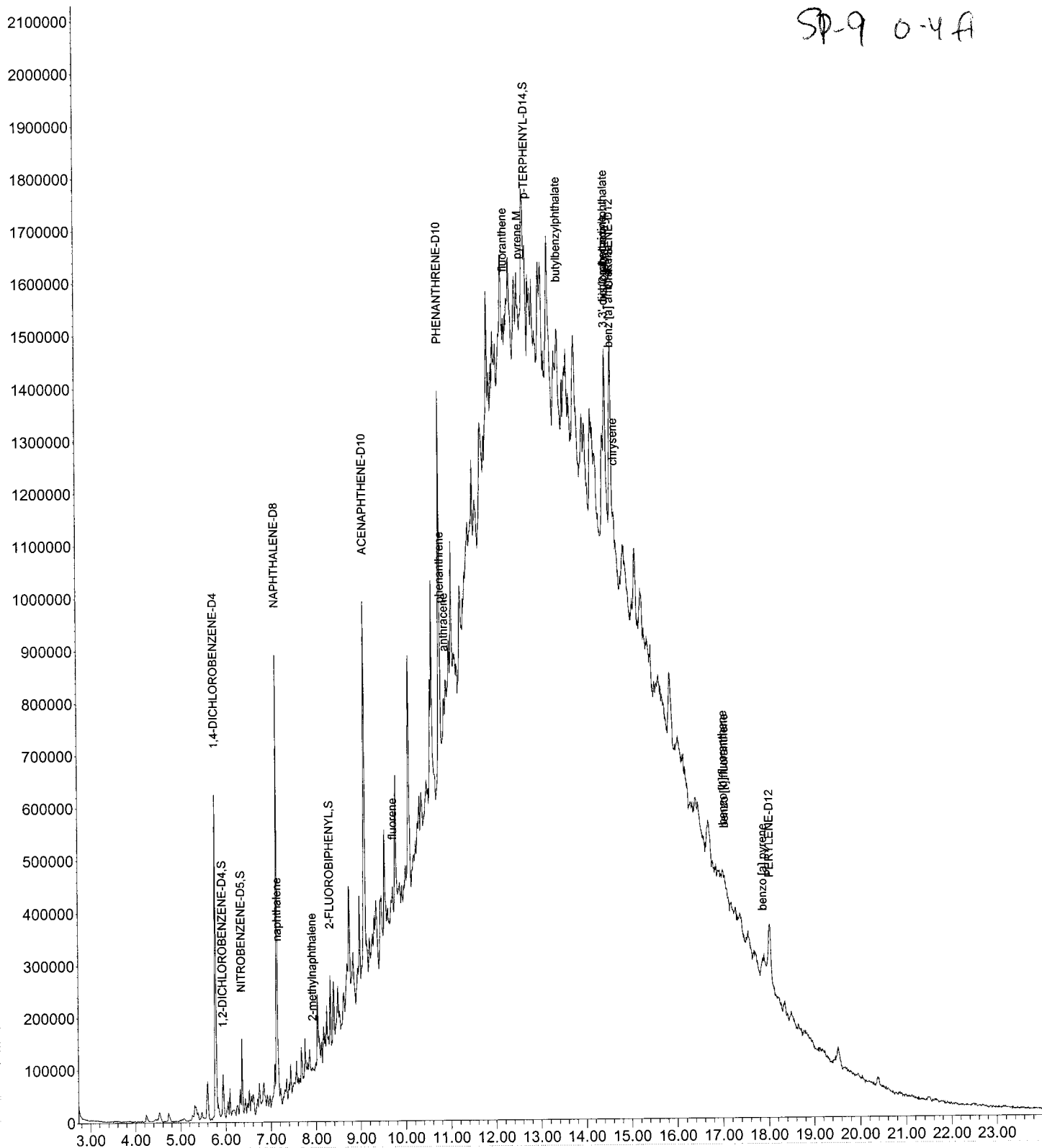
Vial: 19
 Operator: cmg
 Inst : INGRID
 Multiplr: 0.16

Quant Results File: IABN214.RES

Method : C:\HPCHEM\1\METHODS\IABN214.M (RTE Integrator)
 Title : 8270 ABN ICAL - october 2011 (S10378-S10388)
 Last Update : Mon Oct 24 11:08:29 2011
 Response via : Initial Calibration

TIC: M9872.D

SP-9 0-4A



1110 - 00068
(for lab use only)

Sample I.D.	Date/Time Sampled	Matrix A=Air S=Soil GW=Ground W. SW=Surface W. WW=Waste W. DW=Drinking W. P=Product Other (specify)	ANALYSIS REQUIRED																												Total No. of Cont.	Note #
			pH	Cond	GC Methane, Ethane, Ethene	EPA 8260 - Full List	EPA 8260- STARS List	EPA 8021- Full List	EPA 8021- STARS List	EPA 524.2 DW VOCs	EPA 624 WW VOCs	601 602 WW VOCs	EPA 8270 SVOCs - Full List	EPA 8270 STARS (PAHs)	EPA 8270 A * BN	EPA 625 WW SVOCs	EPA 8082-PCBs	EPA 8081-Pest	TPH-GC (Mod. 8100)	TPH-GC w/FING.	Metals PPM-13	Metals R-8	Metals TAL List	Metals TAL List w/CN	Metals (List Below) **	TCLP - Specify Below	SPLP - Specify Below	EPA 300 Cl NO3 SO4				
			☐	☐			X					☐			X	X						X										
SP-4 2-6'	10/11/2011	SOIL			X								X	X							X							3				
SP-9 0-4'	10/11/2011	SOIL			X								X	X							X							3				
SP-10 0-4'	10/11/2011	SOIL			X								X	X							X							3				
SP-15 0-4'	10/11/2011	SOIL			X								X	X							X							3				
SP-18 0-4'	10/11/2011	SOIL			X								X	X							X							3				
SP-19 0-4'	10/11/2011	SOIL			X								X	X							X							3				
PRESERVATIVE (CI-HCl, M-Methanol, N-HNO ₃ , S-H ₂ SO ₄ , Na-NaOH, O-Other) *																																
CONTAINER TYPE (P-Plastic, G-Glass, V-Vial, T-Teflon, O-Other)*																																
RELINQUISHED BY:	DATE/TIME	RECEIVED BY:	NOTES: (Unless otherwise noted, all samples have been refrigerated to 4 +/- 2°C) *Specify "Other" preservatives and container types in this space.																													
Jennifer Davide	10/12/2011	UPS																														
RELINQUISHED BY:	DATE/TIME	RECEIVED BY:	All samples to be tested for 8260 full list, 8270 BN, RCRA 8 metals and PCBs. Preservatives are in the VOC sample containers.																													
RELINQUISHED BY:	DATE/TIME	RECEIVED BY:																														
Project Manager: Chris Boron			TURNAROUND TIME: Standard Rush 5 Days, Approved by: LAB USE: Temp Blank Cooler Air 1113																													
GZA GEOENVIRONMENTAL, INC.			GZA FILE NO: 21.0056630.10 TASK NO: P.O. NO. Central Park Plaza LOCATION 129 Holden Street Buffalo, New York COLLECTOR(S) J. Davide SHEET 1 OF 1																													
535 Washington Street Buffalo, NY 14203 (716) 685-2300 FAX (716) 685-3629																																