

Technical Excellence Practical Experience Client Responsiveness

April 19, 2016

Veronica Zhune Environmental Engineer Division of Environmental Remediation NYSDEC Region 2 One Hunters Point Plaza 47-40 21st Street Long Island City, NY 11101-5407

Re: Spill Closure Report for Spill No. 1510320 River Place I 650 West 42nd Street (the site) New York, NY Brownfield Cleanup Program (BCP) Site No. C231024 Langan Project No.: 170040901

Dear Ms. Zhune:

This letter describes the activities completed to close New York State Department of Environmental Protection (NYSDEC) Spill No. 1510320 at 650 West 42nd Street in New York, New York (Block 1089, Lot 1). The site is primarily occupied by a 40-story residential building (River Place I) with frontage on West 41st Street, West 42nd Street, and 12th Avenue. The remaining portions of the site consist of landscaped park areas, sidewalks, and driveways. A site location map is included as Figure 1. This report includes a discussion of the site background and a detailed account of spill remediation activities, specifically soil excavation and confirmation soil sampling. Work was completed in accordance with the July 2006 Site Management Plan (SMP) for BCP Site No. C231024.

Site Background

The Site was owned and operated by The Consolidated Edison Company (Con Edison) as a manufactured gas plant (MGP) between the 1860s and 1920s and was subsequently developed as a railroad yard in the 1930s. By 1980, the Site was converted into a parking lot. Subsurface Investigations completed in the 1990s revealed that soil and groundwater was impacted by volatile organic compounds (VOCs) and semivolatile organic compounds (SVOCs) likely associated with former MGP operations. Several underground storage tanks (USTs) and associated contaminated soil were removed from the site to address the impacts. In 1996, NYSDEC issued two letters stating that no further action was required; however, NYSDEC noted that future soil disturbance should be done pursuant to a Health and Safety Plan (HASP).

River Place 1 was constructed in 2000. In 2002, The Consolidated Edison Company (Con Edison) entered into a Voluntary Cleanup Agreement (VCA) to investigate and remediate former MGP properties, including the site. The site owner, River Place 1, LLC, and Consolidated Edison transferred into the Brownfield Cleanup Program (BCP) in December 2004.

In July 2006, a Site Management Plan (SMP) was prepared for the site and the adjacent River Place II site (BCP Site No. C231012). The SMP addresses residual impacted soil and groundwater at the site and establishes institutional and engineering controls for the site. The primary engineering control for the site is a cover system consisting of the River Place I concrete slabs, concrete and asphalt walkways and driveways, and clean soil cover in landscaped areas.

The subject spill was reported on January 19, 2016 after maintenance personnel observed a release of No. 2 fuel oil on the floor of the pump room located in the southeast portion of River Place I. The pump is connected to an active, 20,000 gallon aboveground storage tank (AST) located in an adjoining room. Impacts were also observed along a paving stone walkway southeast of the pump room and within the eastern adjoining playground. The leak was due to a failed vibration eliminator located on the discharge side of the pump. NYSDEC assigned Spill No. 1510320. The Spill remediation activities discussed below were completed in accordance to the NSYDEC-approved SMP.

Spill Remediation Activities

The vibration eliminator was replaced and oil absorbent (i.e. Oil-Dri ®) was placed on the floor of the pump room. After the leaking pump was repaired by building maintenance personnel, the Owner contracted PAL Environmental Services (PAL) of Long Island City, New York to remediate the spill. On January 20 and 21, 2016, PAL excavated an about 25 feet (north to south) by 9 feet (east to west) area of the paving stone walkway outside of the pump room and a portion of the adjoining playground. Impacted material was removed to depths ranging from 6 to 12 inches below surface grade. Langan was on-site to observe remediation, perform community air monitoring during excavation, and collect endpoint samples as summarized below. A photograph log is provided as Attachment A.

Impacted Walkway: PAL lifted the paving stones and cleaned them with water and degreasing solution, which were containerized in 55-gallon drums. The central paving stones from the walkway were placed on plastic sheeting and subsequently disposed of offsite. The paving stones were underlain by a layer of asphalt followed by a sandy cement sub-base and the engineered composite cover. Petroleum-like staining and odors were observed in the sub-base and photoionization detector (PID) readings ranged from 40 to 80 parts per million (ppm). The petroleum-impacted asphalt and sub-base was removed and disposed off-site. Petroleum impacts were not observed in the engineered composite cover.



<u>Impacted Playground</u>: The playground cover is composed of artificial turf underlain by a composite foam layer followed by asphalt and the engineered composite cover. Petroleum-like staining and odors were observed in the turf, composite foam layer, and asphalt. PID readings ranged from 40 to 80 ppm. Impacted turf, composite foam layer, and asphalt were removed and disposed off-site. Petroleum-impacts were not observed in the engineered composite cover.

Particulate matter with particles less than 10 μ m in diameter (PM10) and VOCs were monitored at the perimeter of the excavation. Ambient VOC concentrations were measured using a handheld PID. VOC and PM10 concentrations were detected below applicable SMP action levels.

Approximately 2,500 pounds of petroleum-impacted material was removed using hand tools, a jackhammer and vacuum truck and disposed of at Republic Environmental Systems, LLC in Hatfield, PA under non-hazardous waste manifests. The completed waste manifests are provided as Attachment B.

On March 15, 2016, SCI General Construction Services (SCI) backfilled the excavated trench with 3/4-inch quarry stone. SCI replaced asphalt, pavers, composite foam, and turf within the walkway and playground areas between March 18 and 30, 2016. Backfill documentation, including facility permit and sieve analysis, are provided as Attachment C.

Confirmation Sampling

Pursuant to NYSDEC requirements, two confirmation soil samples and one duplicate (quality assurance/quality control [QA/QC] sample were collected, one from the walkway area (EP01_0-5_012116) and one from the playground area (EP02_0-5_012116), as shown on Figure 2. The samples were collected into laboratory-prepared containers, tightly sealed, uniquely labeled, and then stored on ice for transport to Alpha Analytical (Alpha) in Westborough, Massachusetts, under standard chain-of-custody procedures. The samples were analyzed for NYSDEC CP-51 Soil Cleanup Guidance list volatile organic carbons (VOC) and semivolatile organic compounds (SVOC) via U.S. Environmental Protection Agency (USEPA) Methods 8260 and 8270, respectively.

Soil Sampling Results

Endpoint sample results were compared to Soil Cleanup Levels listed in Table 3 of the NYSDEC CP-51 Soil Cleanup Guidance dated October 21, 2010. Detected concentrations of VOCs and SVOCs were below their respective Soil Cleanup Levels.

The laboratory analytical results are summarized in Table 1 and laboratory analytical reports are provided as Attachment D.



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Conclusions and Recommendations

The results from the confirmation samples indicate that the actions described above to excavate and dispose of contaminated soil have remediated the spill impacts. We recommend that Spill No. 1510320 be closed and request that NYSDEC issue a letter indicating that no further action is required.

<u>Closure</u>

We thank you in advance for your review of this Spill Closure Report and consideration of our spill closure request. Please do not hesitate to contact the undersigned at 212.479.5582 if you have any questions.

Sincerely,

Langan Engineering and Environmental Services, Inc. PC

Ryan Manderbach, CHMM Senior Project Manager

Enclosure(s): Table 1: Confirmation Soil Sample Analytical Results Summary Figure 1: Site Location Map Figure 2: Sample Location Map Attachment A – Photograph Log Attachment B – Non-Hazardous Waste Manifest Attachment C – Backfill Documentation Attachment D – Laboratory Analytical Report

cc: Roman Galeano –Silverstein Properties, Inc. Douglas MacNeal – NYSDEC Alan Poeppel - Langan



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Table 1

Confirmation Soil Sample Analytical Results Summary River Place I 650 West 42nd Street New York, NY Langan Project No. 170040901

Sample Location Sample Date Laboratory Sample ID Sample Depth (feet bgs)	CP-51 Soil Cleanup Level	DUP01 1/21/2016 L1601873-03 0 to 0.5		EP01_05_01 1/21/201 L1601873- 0 to 0.5	EP01_05_012116 1/21/2016 L1601873-01 0 to 0.5		EP02_05_012116 1/21/2016 L1601873-02 0 to 0.5	
Volatile Organic Compounds (m	ng/kg)							
1,2,4-Trimethylbenzene	3.6	0.0028	J	0.0012	J	0.071		
1,3,5-Trimethylbenzene	8.4	0.0007	J	0.0096	U	0.017		
Benzene	0.06	0.0017	U	0.0019	U	0.0013	U	
Ethylbenzene	1	0.00021	J	0.0019	U	0.00089	J	
Isopropylbenzene	2.3	0.0017	U	0.0019	U	0.00082	J	
Methyl tert butyl ether	0.93	0.0033	U	0.0038	U	0.0027	U	
n-Butylbenzene	12	0.00037	J	0.0019	U	0.01		
n-Propylbenzene	3.9	0.0017	U	0.0019	U	0.0047		
Naphthalene	12	0.0015	J	0.00087	J	0.022		
o-Xylene	0.26	0.00044	J	0.00038	J	0.0038		
p-IsopropyItoluene	10	0.0017	U	0.0019	U	0.0028		
p/m-Xylene	0.26	0.00088	J	0.00082	J	0.0047		
sec-Butylbenzene	11	0.0017	U	0.0019	U	0.0035		
tert-Butylbenzene	5.9	0.0084	U	0.0096	U	0.0067	U	
Toluene	0.7	0.001	J	0.0014	J	0.00098	J	
Semi-volatile Organic Compoun	nds (mg/kg)							
Acenaphthene	20	0.32	U	0.02	J	0.15	U	
Acenaphthylene	100	0.32	U	0.058	J	0.066	J	
Anthracene	100	0.24	U	0.11		0.085	J	
Benzo(a)anthracene	1	0.13	J	0.31		0.29		
Benzo(a)pyrene	1	0.14	J	0.29		0.32		
Benzo(b)fluoranthene	1	0.16	J	0.39		0.4		
Benzo(ghi)perylene	100	0.1	J	0.2		0.22		
Benzo(k)fluoranthene	0.8	0.07	J	0.14		0.14		
Chrysene	1	0.14	J	0.27		0.26		
Dibenzo(a,h)anthracene	0.33	0.24	U	0.089	J	0.093	J	
Fluoranthene	100	0.22	J	0.56		0.42		
Fluorene	30	0.4	U	0.019	J	0.18	U	
Indeno(1,2,3-cd)pyrene	0.5	0.097	J	0.24		0.26		
Naphthalene	12	0.4	U	0.18	U	0.024	J	
Phenanthrene	100	0.091	J	0.33		0.17		
Pyrene	100	0.22	J	0.47		0.41		
General Chemistry (mg/kg)								
Solids, Total		80.9		90.2		88.8		

Notes:

1. Soil Sample Analysis is compared to Tables 2 and 3 of the New York Department of Environmental Conservation CP-51 Soil Cleanup Guidance, October 21, 2010.

2. mg/Kg = miligrams per kilogram.

3. bgs = below ground surface.

4. DUP01 is a duplicate of sample EP01_0-.5_012116.

<u>**Oualifiers:**</u> 1. J = analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit). Result is an estimated concentration.

2. U = analyte not detected at or above the level indicated.

Attachment A

Photograph Log





Photograph 1: View of No.2 fuel oil staining on paving stone walkway outside of pump room.



Photograph 2: View of impacted pavers in degreasing solution.



Photograph 3: View of impacts under turf and composite foam layer in playground.



Photograph 4: View of impacted material removal

Attachment A NYSDEC Spill No. 1510320 Brownfield Cleanup Program (BCP) Site No. C231024 Langan Project No.: 170040901



Photograph 5: View of impacted material removal.



Photograph 6: View of impacted material removal.



Photograph 7: View of backfill (i.e. ¾-inch quarry stone) compaction.



Photograph 8: View of new composite foam and turf in playground area.



Photograph 9: View of restored paver stone walkway.

Attachment B

Non-Hazardous Waste Manifest

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NON-HAZARDOUS WASTE

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Attachment C Backfill Documentation



TILCON NEW YORK INC.

CORP. OFFICES 162 OLD MILL ROAD WEST NYACK, NY 10994 845-358-4500 www.tilconny.com

November 30, 2015

New York Concrete Corp Brick Court 708 Sharrotts Road Staten Island, NY 10309

Attn: Leo McGugart Re: West 41st Street

Dear Mr. McGugart:

As it is produced by our West Nyack Quarry 3/4" Stone (also known as NYSDOT #2 Stone) is manufactured to meet New York State Department of Transportation (NYSDOT) Standard Specifications. Our West Nyack Quarry supplies 100% virgin trap rock (diabase) that is quarried and processed to finished sizes.

Material shipped from our West Nyack facility is clean and free of contaminants prior to loading. Our West Nyack source (#8-8R) was approved by the NYSDOT under test number 14AR45. That test result indicating source quality is attached. Also attached, please find a typical gradation for 3/4" Stone.

If you have any questions or require additional information, please contact me at (518) 374-2222 or by email at <u>cvanpatten@callanan.com</u>.

Very truly yours; TILCON NEW YORK, INC.

Colleen VanPatten Quality Control Department

NEW YORK STATE DEPARTMENT OF TRANSPORTATION MATERIALS BUREAU COARSE AGGREGATE ANALYSIS FOR 703-02 PHYSICAL REQUIREMENTS

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Pan

NEW YORK STATE DEPARTMENT OF TRANSPORTATION MATERIALS BUREAU COARSE AGGREGATE ANALYSIS FOR 703-02 PHYSICAL REQUIREMENTS

SOURCE #:	8- 8R	TEST #: 14AR	45 E	R3a SERIAL #:	181161	SM LAB #: 1 4	4020803
	Tilcon New Yo West Nyack, N	rk, Inc. IY					
	On 10/09/14	results of tes	ts on mater	ial represente	ed by samp	ole 181161 we	ere evaluated
	Material meet requirements	s specification for approved ι	s for Item 7 Ise.	703-02. Cons	sult friction	aggregate	
REMARKS:							
NYSDOT		No. 2	 No. 1	 No. 1A			
10 Cycle Mg	gS04		1.1				
25 Cycle 39	% freeze -thaw						
% Non-carl % Insoluble L.A. Abrasi	bonate e residue ion		100	Percent non- residue value When design the appropria	carbonate a s represent ing mixes, f te Materials	and percent in this sample of ollow procedu	soluble nly. res in
Bulk Speci Bulk Speci Apparent S Absorption	ific Gravity SSD ific Gravity Specific Gravity	2.91 2.885 2.969 1.0		Gravity and A sample only. designing mix	bsorption v They may r es	alues represer	nt this ate for
COMPOSITIO	N(Size No.)	%		COMPOSI	ΓΙΟΝ (Size	 No. 1)	%
				Trap Roo	ck		99.6
				Trap Roo	ck (W/Pink	Feldspar)	0.4



PERMIT Under the Environmental Conservation Law (ECL)

Permittee and Facility Information

Permit Issued To: TILCON NEW YORK INC

162 OLD MILL RD WEST NYACK, NY 10994 (845) 358-4500 Facility: TILCON - WEST NYACK STONE PROCESSING CRUSHER RD WEST NYACK, NY 10994

 Facility Location: in CLARKSTOWN in ROCKLAND COUNTY

 Facility Principal Reference Point: NYTM-E: 587.377
 NYTM-N: 4551.053

 Latitude: 41°06′21.8″
 Longitude: 73°57′33.8″

Authorized Activity: To continue to mine and process trap rock affecting a maximum of 148 acres on a total site of 175 acres of land owned by the permittee in accordance with previously approved mining and reclamation plans as amended by plans referenced in Special Condition #1 and as conditioned herein.

Permit Authorizations

Mined Land Reclamation - Under Article 23, Title 27

Permit ID 3-3920-00054/00025

Renewal Effective Date: <u>9/25/2006</u>

Expiration Date: <u>9/24/2011</u>

NYSDEC Approval

By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the ECL, all applicable regulations, and all conditions included as part of this permit.

Permit Administrator: STUART M FOX, Deputy Chief Permit Administrator Address: NYSDEC HEADQUARTERS 625 BROADWAY

Stuart M. Jox

ALBANY, NY 12233

Authorized Signature:

Date 9/25/06



Permit Components

MINED LAND RECLAMATION PERMIT CONDITIONS

GENERAL CONDITIONS, APPLY TO ALL AUTHORIZED PERMITS

NOTIFICATION OF OTHER PERMITTEE OBLIGATIONS

MINED LAND RECLAMATION PERMIT CONDITIONS

1. Conformance With Plans All activities authorized by this permit must be in strict conformance with the approved plans submitted by the applicant or applicant's agent as part of the permit application. Such plans were approved by the Department on the effective date of this permit and consist of the following items: See Special Condition No. 2.

2. **Plan Requirements:** All work shall be carried out in accordance with previously approved mining and reclamation plans as amended by the following:

- Application for Renewal of Mining Permit prepared by Spectra Environmental Group, Inc. (Spectra) dated February, 2006.
- Response to Notice of Incomplete Application prepared by Spectra dated March 10, 2006 (revised April 3, 2006).
- Final Grades and Profiles prepared by Spectra dated February 17, 2006.
- Temporary Erosion and Sediment Controls prepared by Spectra dated February 17, 2006.
- Berm Slope Map prepared by Spectra dated February 17, 2006.
- Permanent Stormwater Controls and Grading Plan with Cross Sections prepared by Spectra dated March 22, 2006 (revised March 31, 2006).
- Slope Stabilization Planting Plan prepared by Robert G. Torgerson, A.S.L.A., dated February 6, 2006 (revised on February 21, 2006).
- Mine Plan Map (with SPDES outfalls) dated February 17, 2006 and revised on March 22, 2006.
- Reclamation Map prepared by Spectra dated February 17, 2006.

3. Licensed Blaster Required All blasting shall be undertaken, monitored and recorded by a blaster licensed by the New York State Department of Labor. The permittee shall maintain copies of all blasting records. Such records shall be made available to the department upon request.

4. Vibration Standards Blasting shall be controlled so that vibrations (Peak Particle Velocity) satisfy the Variable Particle vs. Frequency Limits recommended by the U.S. Bureau of Mines Report - 8507 (November 1980). If measurements are made at other than the nearest residential structure, the measurement shall be interpreted in accordance with U.S. Bureau of Mines Report - 8507.

5. Air Blast Limits Air blast shall not exceed the maximum limits listed below at the location of any dwelling, public building, school, church, or community or institutional building outside the permit area.

0.1	Hz high-pass system	134 dB
2	Hz high-pass system	133 dB
5 or 6	Hz high-pass system	129 dB
c-slow	(events not exceeding 2-sec. duration)	105 dB

6. Obtaining All Necessary Local, State and Federal Approvals: As specified in Item "A" on pages 4 and 5 of this permit, the granting of this permit does not relieve the permittee of its responsibility of obtaining all other necessary local, state and federal approvals which may be required.

7. Annual Reports: The permittee shall submit a written annual report to the the Region 3 Mined Land Reclamation Specialist during the month of December for each year of the permit term. The annual report must identify the numbers of acres mined and the number of acres reclaimed during the report years. Operational problems, complaints and the overall status of the project should be included in the report.

8. Strip and Stockpile Soils for Reclamation Prior to the excavation of previously undisturbed areas, topsoil and overburden shall be stripped, stockpiled separately, and used for reclamation of mined areas. These stockpiles shall be seeded to establish a vegetative cover within 30 days, or as soon as practicable following their construction. The permittee shall locate all overburden stockpiles within the permitted area of the approved Life of Mine. Sufficient quantities of topsoil must be retained on the site for use in reclamation, unless prior approval is granted by the department.

9. No Unpermitted Discharge Outside Limits of Mine There shall be no natural swales or channels or constructed features such as ditches, pipes, etc., that are capable of discharging waters to any offsite areas or to any areas outside the limits of the Life of Mine except those explicitly described and shown in the narrative and graphic portions of the approved Mined Land Use Plan. All silt laden water and storm water generated on, or running across, the site shall be retained within the approved project area. The permittee must comply with all applicable State Pollutant Discharge Elimination System (SPDES) permit requirements and provide necessary notifications for off-site point source discharges.

10. Fueling of Equipment and Reporting of Spills Fueling of equipment shall be controlled to prevent spillage. Any spillage of fuels, waste oils, other petroleum products or hazardous materials shall be reported to the department's Spill Hotline number (1-800-457-7362) within 2 hours. The permittee shall retain the department's Spill Response number for immediate access in the permittee's office and at the mine site.

11. Bond, Surety to Remain in Force Any required reclamation bond or other surety, in an amount determined by the department, shall be maintained in full force and effect. Such a bond or other surety shall not be terminated until the reclamation of the mined area is approved by the department in writing.

12. Maintain Area Markers for Permit Term The permittee shall provide permanent markers such as stakes, posts or other devices acceptable to the Department to identify and delineate the permit area, as outlined on the approved Mining Plan Map. These markers are to be installed prior to the start of mining and shall be maintained for the duration of the permit term.



13. **Dust Control** Water or other approved dust palliatives must be applied to haulageways and other parts of the mine, as often as necessary, to prevent visible dust from leaving the mine property.

GENERAL CONDITIONS - Apply to ALL Authorized Permits:

1. Facility Inspection by The Department The permitted site or facility, including relevant records, is subject to inspection at reasonable hours and intervals by an authorized representative of the Department of Environmental Conservation (the Department) to determine whether the permittee is complying with this permit and the ECL. Such representative may order the work suspended pursuant to ECL 71-0301 and SAPA 401(3).

The permittee shall provide a person to accompany the Department's representative during an inspection to the permit area when requested by the Department.

A copy of this permit, including all referenced maps, drawings and special conditions, must be available for inspection by the Department at all times at the project site or facility. Failure to produce a copy of the permit upon request by a Department representative is a violation of this permit.

2. Relationship of this Permit to Other Department Orders and Determinations Unless expressly provided for by the Department, issuance of this permit does not modify, supersede or rescind any order or determination previously issued by the Department or any of the terms, conditions or requirements contained in such order or determination.

3. Applications For Permit Renewals, Modifications or Transfers The permittee must submit a separate written application to the Department for permit renewal, modification or transfer of this permit. Such application must include any forms or supplemental information the Department requires. Any renewal, modification or transfer granted by the Department must be in writing. Submission of applications for permit renewal, modification or transfer are to be submitted to:

Regional Permit Administrator NYSDEC REGION 3 HEADQUARTERS 21 SOUTH PUTT CORNERS RD NEW PALTZ, NY12561 -1620

4. Submission of Renewal Application The permittee must submit a renewal application at least 30 days before permit expiration for the following permit authorizations: Mined Land Reclamation.



5. Permit Modifications, Suspensions and Revocations by the Department The Department reserves the right to modify, suspend or revoke this permit. The grounds for modification, suspension or revocation include:

- a. materially false or inaccurate statements in the permit application or supporting papers;
- b. failure by the permittee to comply with any terms or conditions of the permit;
- c. exceeding the scope of the project as described in the permit application;
- d. newly discovered material information or a material change in environmental conditions, relevant technology or applicable law or regulations since the issuance of the existing permit;
- e. noncompliance with previously issued permit conditions, orders of the commissioner, any provisions of the Environmental Conservation Law or regulations of the Department related to the permitted activity.

6. **Permit Transfer** Permits are transferrable unless specifically prohibited by statute, regulation or another permit condition. Applications for permit transfer should be submitted prior to actual transfer of ownership.

NOTIFICATION OF OTHER PERMITTEE OBLIGATIONS

Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification

The permittee, excepting state or federal agencies, expressly agrees to indemnify and hold harmless the Department of Environmental Conservation of the State of New York, its representatives, employees, and agents ("DEC") for all claims, suits, actions, and damages, to the extent attributable to the permittee's acts or omissions in connection with the permittee's undertaking of activities in connection with, or operation and maintenance of, the facility or facilities authorized by the permit whether in compliance or not in compliance with the terms and conditions of the permit. This indemnification does not extend to any claims, suits, actions, or damages to the extent attributable to DEC's own negligent or intentional acts or omissions, or to any claims, suits, or actions naming the DEC and arising under Article 78 of the New York Civil Practice Laws and Rules or any citizen suit or civil rights provision under federal or state laws.

Item B: Permittee's Contractors to Comply with Permit

The permittee is responsible for informing its independent contractors, employees, agents and assigns of their responsibility to comply with this permit, including all special conditions while acting as the permittee's agent with respect to the permitted activities, and such persons shall be subject to the same sanctions for violations of the Environmental Conservation Law as those prescribed for the permittee.

Item C: Permittee Responsible for Obtaining Other Required Permits

The permittee is responsible for obtaining any other permits, approvals, lands, easements and rights-ofway that may be required to carry out the activities that are authorized by this permit.



Item D: No Right to Trespass or Interfere with Riparian Rights

This permit does not convey to the permittee any right to trespass upon the lands or interfere with the riparian rights of others in order to perform the permitted work nor does it authorize the impairment of any rights, title, or interest in real or personal property held or vested in a person not a party to the permit.

Item E: SEQR Type II Action, Renewal Under the State Environmental Quality Review Act (SEQR), the Department of Environmental Conservation has determined that this permit is a renewal where there will be no material change in permit conditions or the scope of permitted activities and is therefore a Type II Action and not subject to further procedures under this law.

New York State Department of Environmental Conservation Division of Environmental Permits, 4th Floor 625 Broadway, Albany, New York 12233-1750 Phone: (518) 402-9167 • FAX: (518) 402-9168 Website: www.dec.ny.gov



03337

July 25, 2008

Mr. Richard Randlov Tilcon New York, Inc. 162 Old Mill Rd. West Nyack, NY 10994-0036

> Re: DEC ID # 3-3920-00054/00025 MLR # 30010 Facility: West Nyack Quarry

Dear Permittee:

The Department of Environmental Conservation is pursuing an initiative to provide uniform conditions statewide for blasting activities authorized by Mined Land Reclamation Permits. The eight standard blasting conditions, presently in use, have been developed by Mined Land Reclamation program staff and require the implementation of best management practices that address safe and environmentally protective blasting. This permit modification initiative will result in consistent blasting conditions being in force for all mining operations that utilize blasting as a method of extraction, thus ensuring consistency within Department regions and across the state.

To implement this initiative, Department initiated modifications are being proposed, pursuant to the Uniform Procedures Regulation at 6 NYCRR Part 621.13(a)(4), for those permits that require changes or additions to existing permit conditions. The following modifications are proposed for the referenced permit:

New Conditions:

Licensed Blaster Required	All blasting shall be undertaken, monitored and recorded by a blaster licensed by the New York State Department of Labor. The permittee shall maintain copies of all blasting records. Such records shall be made available to the Department (NYSDEC) upon request.
Seismograph Monitoring	All blasts shall be monitored with a properly calibrated seismograph. Seismographs shall be installed at the nearest residential receptor and any locations identified within the approved Mined Land Use Plan or locations determined by the

	Department. Seismograph records shall be provided to the Department upon request.
Prevent Injury	Blasting shall be conducted in a manner to prevent injury to persons and damage to public or private property outside the permit area.
Ground Vibration Limits	Ground vibration shall not exceed the limits as per the attached ground vibration limits graph from the U. S. Bureau of Mines Report of Investigation 8507 (Figure B-1, Safe levels of blasting vibration for houses using a combination of velocity and displacement [see attached]). Maximum peak particle velocity shall not exceed these limits at the location of any dwelling, public building, school, church, or community or institutional building outside the permit area.
Blasting Hours	Blasting shall be conducted between the hours of 9:00 a.m. to 5:00 p.m. Exceptions from these hours will require prior Department approval. No blasting will occur on Sundays or legal holidays.
Storage of Explosives	Storage of explosives on site shall conform to State of New York, Department of Labor Industrial Code Rule 39, found at 12 NYCRR 39:
	Part 39.6 General Provisions for the Storage and Handling of Explosives Part 39.8 Construction and Maintenance of Magazines Part 39.9 Location of Magazines
No Flyrock Beyond the Property Line	There shall be no flyrock beyond the property line including flyrock that travels in the air or along the ground. In the event of flyrock beyond the property line, all blasting shall cease immediately and the flyrock incident shall be reported within 24 hours to the Regional Mined Land Reclamation Specialist. Blasting shall not resume until written approval to resume blasting is obtained from the Department.

Should you object to these modifications you may submit a written statement giving reasons why your permit should not be modified or you may request a hearing or both. Statements and requests for hearing must be submitted by August 11, 2008 and directed to me at the letterhead address. If you do not respond with an objection to the proposed conditions by the deadline, the permit modifications will go into effect on August 12, 2008.

This modification of your permit does not change the date of expiration. When you renew your permit, near the end of the permit term, these conditions will be included in your renewed permit. Please keep this letter with your current permit.

Should you have any questions regarding this modification call either Chris McKelvey at (518) 402 - 8072 or me at (518) 402 - 9154.

Sincerely,

Charles B. Hardner

Charles B. Gardner Deputy Permit Administrator

attach.

5

c. Regional Permit Administrator Regional Mined Land Specialist C. McKelvey



RI-8501 Figure B-1. Safe levels of blasting vibration for houses using a combination of velocity and displacement.

From: Siskind, D. E., Stagg, M. S., Kopp, J. W., and Dowding, C. H., 1980, Structure Response and Damage Produced by Ground Vibration From Surface Mine Blasting, Bureau of Mines Report of Investigation RI-<u>8</u>507, United States Department of the Interior, 74 p.

Attachment D Laboratory Analytical Report



ANALYTICAL REPORT

Lab Number:	L1601873
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Nicole Rice
Phone:	(212) 479-5400
Project Name:	RIVERSIDE PLACE
Project Number:	170040901
Report Date:	01/28/16

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

Eight Walkup Drive, Westborough, MA 01581-1019 508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Serial_No:01281617:11

Project Name:RIVERSIDE PLACEProject Number:170040901

 Lab Number:
 L1601873

 Report Date:
 01/28/16

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1601873-01	EP01_05_012116	SOIL	ONE RIVER PLACE	01/21/16 14:00	01/21/16
L1601873-02	EP02_05_012116	SOIL	ONE RIVER PLACE	01/21/16 14:05	01/21/16
L1601873-03	DUP01	SOIL	ONE RIVER PLACE	01/21/16 14:00	01/21/16
L1601873-04	FIELD BLANK	WATER	ONE RIVER PLACE	01/21/16 14:15	01/21/16
L1601873-05	TRIP BLANK	WATER	ONE RIVER PLACE	01/21/16 00:00	01/21/16
Project Name: RIVERSIDE PLACE Project Number: 170040901

 Lab Number:
 L1601873

 Report Date:
 01/28/16

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.



Project Name: RIVERSIDE PLACE Project Number: 170040901

 Lab Number:
 L1601873

 Report Date:
 01/28/16

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

Michelle M. Monig Michelle M. Morris

Title: Technical Director/Representative

Date: 01/28/16



ORGANICS



VOLATILES



			Serial_N	o:01281617:11
Project Name:	RIVERSIDE PLACE		Lab Number:	L1601873
Project Number:	170040901		Report Date:	01/28/16
		SAMPLE RESULTS		
Lab ID:	L1601873-01		Date Collected:	01/21/16 14:00
Client ID:	EP01_05_012116		Date Received:	01/21/16
Sample Location:	ONE RIVER PLACE		Field Prep:	Not Specified
Matrix:	Soil			
Analytical Method:	1,8260C			
Analytical Date:	01/25/16 10:42			
Analyst:	BN			
Percent Solids:	90%			

MDL Dilution Factor	MDL	RL	Units	Qualifier	Result	Parameter
					stborough Lab	Volatile Organics by 8260/5035 - V
0.22 1	0.22	1.9	ug/kg		ND	Benzene
0.37 1	0.37	2.9	ug/kg	J	1.4	Toluene
0.24 1	0.24	1.9	ug/kg		ND	Ethylbenzene
0.16 1	0.16	3.8	ug/kg		ND	Methyl tert butyl ether
0.38 1	0.38	3.8	ug/kg	J	0.82	p/m-Xylene
0.33 1	0.33	3.8	ug/kg	J	0.38	o-Xylene
0.22 1	0.22	1.9	ug/kg		ND	n-Butylbenzene
0.23 1	0.23	1.9	ug/kg		ND	sec-Butylbenzene
0.26 1	0.26	9.6	ug/kg		ND	tert-Butylbenzene
0.20 1	0.20	1.9	ug/kg		ND	Isopropylbenzene
0.24 1	0.24	1.9	ug/kg		ND	p-Isopropyltoluene
0.26 1	0.26	9.6	ug/kg	J	0.87	Naphthalene
0.21 1	0.21	1.9	ug/kg		ND	n-Propylbenzene
0.27 1	0.27	9.6	ug/kg		ND	1,3,5-Trimethylbenzene
0.27 1	0.27	9.6	ug/kg	J	1.2	1,2,4-Trimethylbenzene
0.27 1 0.27 1	0.27 0.27	9.6 9.6	ug/kg ug/kg	J	ND 1.2	1,3,5-Trimethylbenzene 1,2,4-Trimethylbenzene

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	100	70-130	
Toluene-d8	99	70-130	
4-Bromofluorobenzene	102	70-130	
Dibromofluoromethane	95	70-130	



			Serial_No:01281617:11			
Project Name:	RIVERSIDE PLACE		Lab Number:	L1601873		
Project Number:	170040901		Report Date:	01/28/16		
		SAMPLE RESULTS				
Lab ID:	L1601873-02		Date Collected:	01/21/16 14:05		
Client ID:	EP02_05_012116		Date Received:	01/21/16		
Sample Location:	ONE RIVER PLACE		Field Prep:	Not Specified		
Matrix:	Soil			-		
Analytical Method:	1,8260C					
Analytical Date:	01/25/16 11:08					
Analyst:	BN					
Percent Solids:	89%					

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
Volatile Organics by 8260/5035 - W	/estborough Lab						
Benzene	ND		ug/kg	1.3	0.16	1	
Toluene	0.98	J	ug/kg	2.0	0.26	1	
Ethylbenzene	0.89	J	ug/kg	1.3	0.17	1	
Methyl tert butyl ether	ND		ug/kg	2.7	0.11	1	
p/m-Xylene	4.7		ug/kg	2.7	0.26	1	
o-Xylene	3.8		ug/kg	2.7	0.23	1	
n-Butylbenzene	10		ug/kg	1.3	0.15	1	
sec-Butylbenzene	3.5		ug/kg	1.3	0.16	1	
tert-Butylbenzene	ND		ug/kg	6.7	0.18	1	
Isopropylbenzene	0.82	J	ug/kg	1.3	0.14	1	
p-Isopropyltoluene	2.8		ug/kg	1.3	0.17	1	
Naphthalene	22		ug/kg	6.7	0.18	1	
n-Propylbenzene	4.7		ug/kg	1.3	0.15	1	
1,3,5-Trimethylbenzene	17		ug/kg	6.7	0.19	1	
1,2,4-Trimethylbenzene	71		ug/kg	6.7	0.19	1	

Surrogate	% Recovery	Qualifier	Criteria	
1,2-Dichloroethane-d4	100		70-130	
Toluene-d8	99		70-130	
4-Bromofluorobenzene	111		70-130	
Dibromofluoromethane	95		70-130	



			Serial_No:01281617:11		
Project Name:	RIVERSIDE PLACE		Lab Number:	L1601873	
Project Number:	170040901		Report Date:	01/28/16	
		SAMPLE RESULTS			
Lab ID:	L1601873-03		Date Collected:	01/21/16 14:00	
Client ID:	DUP01		Date Received:	01/21/16	
Sample Location:	ONE RIVER PLACE		Field Prep:	Not Specified	
Matrix:	Soil			•	
Analytical Method:	1,8260C				
Analytical Date:	01/25/16 11:34				
Analyst:	BN				
Percent Solids:	81%				

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - W	/estborough Lab					
Benzene	ND		ug/kg	1.7	0.20	1
Toluene	1.0	J	ug/kg	2.5	0.32	1
Ethylbenzene	0.21	J	ug/kg	1.7	0.21	1
Methyl tert butyl ether	ND		ug/kg	3.3	0.14	1
p/m-Xylene	0.88	J	ug/kg	3.3	0.33	1
o-Xylene	0.44	J	ug/kg	3.3	0.29	1
n-Butylbenzene	0.37	J	ug/kg	1.7	0.19	1
sec-Butylbenzene	ND		ug/kg	1.7	0.20	1
tert-Butylbenzene	ND		ug/kg	8.4	0.23	1
Isopropylbenzene	ND		ug/kg	1.7	0.17	1
p-Isopropyltoluene	ND		ug/kg	1.7	0.21	1
Naphthalene	1.5	J	ug/kg	8.4	0.23	1
n-Propylbenzene	ND		ug/kg	1.7	0.18	1
1,3,5-Trimethylbenzene	0.70	J	ug/kg	8.4	0.24	1
1,2,4-Trimethylbenzene	2.8	J	ug/kg	8.4	0.24	1

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	98	70-130	
Toluene-d8	100	70-130	
4-Bromofluorobenzene	102	70-130	
Dibromofluoromethane	95	70-130	



			Serial_N	o:01281617:11
Project Name:	RIVERSIDE PLACE		Lab Number:	L1601873
Project Number:	170040901		Report Date:	01/28/16
		SAMPLE RESULTS		
Lab ID:	L1601873-04		Date Collected:	01/21/16 14:15
Client ID:	FIELD BLANK		Date Received:	01/21/16
Sample Location:	ONE RIVER PLACE		Field Prep:	Not Specified
Matrix:	Water			
Analytical Method:	1,8260C			
Analytical Date:	01/27/16 15:56			
Analyst:	PD			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - We	estborough Lab					
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
1,2-Dichloroethane-d4	95		70-130	
Toluene-d8	100		70-130	
4-Bromofluorobenzene	106		70-130	
Dibromofluoromethane	90		70-130	



			Serial_N	o:01281617:11
Project Name:	RIVERSIDE PLACE		Lab Number:	L1601873
Project Number:	170040901		Report Date:	01/28/16
		SAMPLE RESULTS		
Lab ID:	L1601873-05		Date Collected:	01/21/16 00:00
Client ID:	TRIP BLANK		Date Received:	01/21/16
Sample Location:	ONE RIVER PLACE		Field Prep:	Not Specified
Matrix:	Water			
Analytical Method:	1,8260C			
Analytical Date:	01/27/16 16:19			
Analyst:	PD			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
Volatile Organics by GC/MS - Westborough Lab							
Benzene	ND		ug/l	0.50	0.16	1	
Toluene	ND		ug/l	2.5	0.70	1	
Ethylbenzene	ND		ug/l	2.5	0.70	1	
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1	
p/m-Xylene	ND		ug/l	2.5	0.70	1	
o-Xylene	ND		ug/l	2.5	0.70	1	
n-Butylbenzene	ND		ug/l	2.5	0.70	1	
sec-Butylbenzene	ND		ug/l	2.5	0.70	1	
tert-Butylbenzene	ND		ug/l	2.5	0.70	1	
Isopropylbenzene	ND		ug/l	2.5	0.70	1	
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1	
Naphthalene	ND		ug/l	2.5	0.70	1	
n-Propylbenzene	ND		ug/l	2.5	0.70	1	
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1	
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1	

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
1,2-Dichloroethane-d4	96		70-130	
Toluene-d8	100		70-130	
4-Bromofluorobenzene	106		70-130	
Dibromofluoromethane	91		70-130	



Project Name:	RIVERSIDE PLACE	Lab Number:	L1601873
Project Number:	170040901	Report Date:	01/28/16

Method Blank Analysis Batch Quality Control

Analytical Method:	1,8260C
Analytical Date:	01/25/16 09:51
Analyst:	BN

Parameter	Result	Qualifier	Units	RL		MDL	
Volatile Organics by 8260/5035 - We	estborough	Lab for sai	nple(s):	01-03	Batch:	WG860228-3	
Benzene	ND		ug/kg	1.0		0.12	
Toluene	ND		ug/kg	1.5		0.19	
Ethylbenzene	ND		ug/kg	1.0		0.13	
Methyl tert butyl ether	ND		ug/kg	2.0		0.08	
p/m-Xylene	0.26	J	ug/kg	2.0		0.20	
o-Xylene	ND		ug/kg	2.0		0.17	
n-Butylbenzene	ND		ug/kg	1.0		0.11	
sec-Butylbenzene	ND		ug/kg	1.0		0.12	
tert-Butylbenzene	ND		ug/kg	5.0		0.14	
Isopropylbenzene	ND		ug/kg	1.0		0.10	
p-Isopropyltoluene	ND		ug/kg	1.0		0.12	
Naphthalene	ND		ug/kg	5.0		0.14	
n-Propylbenzene	ND		ug/kg	1.0		0.11	
1,3,5-Trimethylbenzene	ND		ug/kg	5.0		0.14	
1,2,4-Trimethylbenzene	ND		ug/kg	5.0		0.14	

		A	cceptance
Surrogate	%Recovery	Qualifier	Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	91		70-130



Project Name:	RIVERSIDE PLACE	Lab Number:	L1601873
Project Number:	170040901	Report Date:	01/28/16

Method Blank Analysis Batch Quality Control

Analytical Method:	1,8260C
Analytical Date:	01/27/16 10:31
Analyst:	PD

Parameter	Result	Qualifier Units	s RL	MDL	
Volatile Organics by GC/MS - Wes	borough Lab	for sample(s):	04-05 Batcl	n: WG860835-3	
Benzene	ND	ug/l	0.50	0.16	
Toluene	ND	ug/l	2.5	0.70	
Ethylbenzene	ND	ug/l	2.5	0.70	
Methyl tert butyl ether	ND	ug/l	2.5	0.70	
p/m-Xylene	ND	ug/l	2.5	0.70	
o-Xylene	ND	ug/l	2.5	0.70	
n-Butylbenzene	ND	ug/l	2.5	0.70	
sec-Butylbenzene	ND	ug/l	2.5	0.70	
tert-Butylbenzene	ND	ug/l	2.5	0.70	
Isopropylbenzene	ND	ug/l	2.5	0.70	
p-Isopropyltoluene	ND	ug/l	2.5	0.70	
Naphthalene	ND	ug/l	2.5	0.70	
n-Propylbenzene	ND	ug/l	2.5	0.70	
1,3,5-Trimethylbenzene	ND	ug/l	2.5	0.70	
1,2,4-Trimethylbenzene	ND	ug/l	2.5	0.70	

			Acceptance	
Surrogate	%Recovery	Qualifier	Criteria	
1,2-Dichloroethane-d4	93		70-130	
Toluene-d8	100		70-130	
4-Bromofluorobenzene	107		70-130	
Dibromofluoromethane	89		70-130	



Project Name: RIVERSIDE PLACE

Project Number: 170040901

Parameter	LCS %Recovery Qual	LCSD %Recovery	%Reco Qual Limit	very ts RPD	RPD Qual Limits
Volatile Organics by 8260/5035 - W	estborough Lab Associated sample(s):	01-03 Batch:	WG860228-1 WG8	360228-2	
Methylene chloride	100	100	70-13	0 0	30
1,1-Dichloroethane	116	115	70-13	0 1	30
Chloroform	111	111	70-13	0 0	30
Carbon tetrachloride	114	113	70-13	0 1	30
1,2-Dichloropropane	115	116	70-13	0 1	30
Dibromochloromethane	105	104	70-13	0 1	30
2-Chloroethylvinyl ether	115	114	70-13	0 1	30
1,1,2-Trichloroethane	115	112	70-13	0 3	30
Tetrachloroethene	113	111	70-13	0 2	30
Chlorobenzene	112	111	70-13	0 1	30
Trichlorofluoromethane	112	109	70-13	9 3	30
1,2-Dichloroethane	109	109	70-13	0 0	30
1,1,1-Trichloroethane	114	114	70-13	0 0	30
Bromodichloromethane	108	108	70-13	0 0	30
trans-1,3-Dichloropropene	111	109	70-13	0 2	30
cis-1,3-Dichloropropene	109	110	70-13	0 1	30
1,1-Dichloropropene	121	119	70-13	0 2	30
Bromoform	104	103	70-13	0 1	30
1,1,2,2-Tetrachloroethane	114	111	70-13	0 3	30
Benzene	114	114	70-13	0 0	30
Toluene	114	113	70-13	0 1	30

Batch Quality Control

Project Name: RIVERSIDE PLACE

Project Number: 170040901

Lab Number: L1601873 Report Date: 01/28/16

LCSD LCS %Recovery RPD %Recovery RPD %Recovery Limits Limits Parameter Qual Qual Qual Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-03 Batch: WG860228-1 WG860228-2 Ethylbenzene 116 116 70-130 30 0 Chloromethane 102 102 52-130 0 30 Bromomethane 96 57-147 30 96 0 Vinyl chloride 30 108 109 67-130 1 Chloroethane 115 116 50-151 30 1 65-135 30 1.1-Dichloroethene 111 112 1 trans-1,2-Dichloroethene 110 112 70-130 2 30 Trichloroethene 113 70-130 30 114 1 70-130 30 1.2-Dichlorobenzene 110 108 2 1,3-Dichlorobenzene 70-130 30 112 113 1 112 110 70-130 30 1.4-Dichlorobenzene 2 Methyl tert butyl ether 107 105 66-130 2 30 p/m-Xylene 70-130 30 116 115 1 o-Xylene 70-130 30 113 114 1 cis-1,2-Dichloroethene 70-130 30 111 110 1 Dibromomethane 106 70-130 30 105 1 Styrene 115 114 70-130 1 30 Dichlorodifluoromethane 86 86 30-146 0 30 54-140 30 Acetone 113 103 9 Carbon disulfide 59-130 30 112 113 1 2-Butanone 117 113 70-130 3 30



Batch Quality Control

Project Name: RIVERSIDE PLACE

Project Number: 170040901

Lab Number: L1601873 Report Date: 01/28/16

LCSD LCS %Recovery RPD %Recovery RPD %Recovery Limits Limits Parameter Qual Qual Qual Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-03 Batch: WG860228-1 WG860228-2 Vinyl acetate 110 109 70-130 30 1 4-Methyl-2-pentanone 114 112 70-130 2 30 1,2,3-Trichloropropane 111 68-130 30 113 2 102 30 2-Hexanone 108 70-130 6 Bromochloromethane 106 106 70-130 0 30 2,2-Dichloropropane 70-130 30 114 113 1 1,2-Dibromoethane 109 106 70-130 3 30 1,3-Dichloropropane 112 69-130 2 30 114 1,1,1,2-Tetrachloroethane 70-130 30 110 109 1 Bromobenzene 108 107 70-130 30 1 n-Butylbenzene 125 124 70-130 30 1 sec-Butylbenzene 121 121 70-130 0 30 tert-Butylbenzene 116 70-130 30 117 1 o-Chlorotoluene 70-130 30 119 117 2 p-Chlorotoluene 70-130 30 117 116 1 1,2-Dibromo-3-chloropropane 89 68-130 30 94 5 Hexachlorobutadiene 113 111 67-130 2 30 Isopropylbenzene 118 117 70-130 1 30 p-Isopropyltoluene 70-130 30 119 118 1 Naphthalene 70-130 30 107 105 2 Acrylonitrile 116 117 70-130 30 1



Batch Quality Control

Project Name: RIVERSIDE PLACE

Project Number: 170040901

Lab Number: L1601873 Report Date: 01/28/16

LCSD LCS %Recovery RPD %Recovery RPD %Recovery Limits Limits Parameter Qual Qual Qual Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-03 Batch: WG860228-1 WG860228-2 Isopropyl Ether 116 116 66-130 30 0 tert-Butyl Alcohol 107 105 70-130 2 30 n-Propylbenzene 122 120 70-130 30 2 107 30 1,2,3-Trichlorobenzene 106 70-130 1 1,2,4-Trichlorobenzene 112 110 70-130 2 30 1,3,5-Trimethylbenzene 70-130 30 117 116 1 1,2,4-Trimethylbenzene 116 115 70-130 1 30 Methyl Acetate 112 107 51-146 30 5 Ethyl Acetate 70-130 30 122 117 4 107 70-130 30 Acrolein 111 4 Cyclohexane 129 128 59-142 30 1 1,4-Dioxane 106 106 65-136 0 30 1,1,2-Trichloro-1,2,2-Trifluoroethane 120 117 50-139 30 3 70-130 30 p-Diethylbenzene 117 115 2 p-Ethyltoluene 70-130 30 118 118 0 1,2,4,5-Tetramethylbenzene 110 70-130 30 110 0 Tetrahydrofuran 118 113 66-130 4 30 Ethyl ether 105 105 67-130 0 30 trans-1.4-Dichloro-2-butene 70-130 30 120 114 5 Methyl cyclohexane 122 70-130 30 120 2 Ethyl-Tert-Butyl-Ether 112 112 70-130 0 30



Project Name: RIVERSIDE PLACE

Project Number: 170040901

 Lab Number:
 L1601873

 Report Date:
 01/28/16

	LCS		LCS	SD	9	6Recovery			RPD	
Parameter	%Recovery	Qual	%Reco	overy	Qual	Limits	RPD	Qual	Limits	
Volatile Organics by 8260/5035 - Westboroug	h Lab Associate	d sample(s):	01-03	Batch:	WG860228-1	WG860228-2				
Tertiary-Amyl Methyl Ether	110		10)9		70-130	1		30	

	LCS	LCSD		Acceptance		
Surrogate	%Recovery	Qual	%Recovery	Qual	Criteria	
	20				70.400	
1,2-Dichloroethane-d4	98		97		70-130	
Toluene-d8	100		99		70-130	
4-Bromofluorobenzene	103		101		70-130	
Dibromofluoromethane	98		99		70-130	



Project Number: 170040901

Parameter	LCS %Recovery Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	RPD Qual Limits	
Volatile Organics by GC/MS - Westborou	ugh Lab Associated sample(s): 04-05 Batch:	WG860835-1	WG860835-2			
Methylene chloride	96	95		70-130	1	20	
1,1-Dichloroethane	95	95		70-130	0	20	
Chloroform	93	92		70-130	1	20	
2-Chloroethylvinyl ether	86	80		70-130	7	20	
Carbon tetrachloride	88	87		63-132	1	20	
1,2-Dichloropropane	100	100		70-130	0	20	
Dibromochloromethane	89	90		63-130	1	20	
1,1,2-Trichloroethane	97	99		70-130	2	20	
Tetrachloroethene	95	95		70-130	0	20	
Chlorobenzene	96	97		75-130	1	20	
Trichlorofluoromethane	71	70		62-150	1	20	
1,2-Dichloroethane	89	89		70-130	0	20	
1,1,1-Trichloroethane	90	91		67-130	1	20	
Bromodichloromethane	90	90		67-130	0	20	
trans-1,3-Dichloropropene	89	89		70-130	0	20	
cis-1,3-Dichloropropene	91	90		70-130	1	20	
1,1-Dichloropropene	100	101		70-130	1	20	
Bromoform	86	87		54-136	1	20	
1,1,2,2-Tetrachloroethane	99	100		67-130	1	20	
Benzene	100	100		70-130	0	20	
Toluene	100	100		70-130	0	20	



Project Number: 170040901

Parameter	LCS %Recovery	Qual	%R	LCSD Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	
Volatile Organics by GC/MS - Westborough L	ab Associated	I sample(s):	04-05	Batch:	WG860835-1	WG860835-2				
Ethylbenzene	102			102		70-130	0		20	
Chloromethane	83			78		64-130	6		20	
Bromomethane	78			74		39-139	5		20	
Vinyl chloride	82			80		55-140	2		20	
Chloroethane	74			73		55-138	1		20	
1,1-Dichloroethene	91			90		61-145	1		20	
trans-1,2-Dichloroethene	96			96		70-130	0		20	
Trichloroethene	93			93		70-130	0		20	
1,2-Dichlorobenzene	98			98		70-130	0		20	
1,3-Dichlorobenzene	98			99		70-130	1		20	
1,4-Dichlorobenzene	96			97		70-130	1		20	
Methyl tert butyl ether	103			104		63-130	1		20	
p/m-Xylene	106			106		70-130	0		20	
o-Xylene	106			107		70-130	1		20	
cis-1,2-Dichloroethene	99			98		70-130	1		20	
Dibromomethane	92			92		70-130	0		20	
1,2,3-Trichloropropane	101			103		64-130	2		20	
Acrylonitrile	100			100		70-130	0		20	
Isopropyl Ether	104			105		70-130	1		20	
tert-Butyl Alcohol	112			119		70-130	6		20	
Styrene	105			105		70-130	0		20	



Project Name: RIVERSIDE PLACE

Project Number: 170040901

Parameter	LCS %Recovery	Qual	%F	LCSD Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	
Volatile Organics by GC/MS - Westborough La	ab Associated	sample(s):	04-05	Batch:	WG860835-1	WG860835-2				
Dichlorodifluoromethane	63			62		36-147	2		20	
Acetone	106			104		58-148	2		20	
Carbon disulfide	87			85		51-130	2		20	
2-Butanone	108			109		63-138	1		20	
Vinyl acetate	98			98		70-130	0		20	
4-Methyl-2-pentanone	95			99		59-130	4		20	
2-Hexanone	85			86		57-130	1		20	
Acrolein	86			84		40-160	2		20	
Bromochloromethane	93			93		70-130	0		20	
2,2-Dichloropropane	94			94		63-133	0		20	
1,2-Dibromoethane	97			97		70-130	0		20	
1,3-Dichloropropane	102			103		70-130	1		20	
1,1,1,2-Tetrachloroethane	92			92		64-130	0		20	
Bromobenzene	100			100		70-130	0		20	
n-Butylbenzene	102			102		53-136	0		20	
sec-Butylbenzene	99			100		70-130	1		20	
tert-Butylbenzene	100			100		70-130	0		20	
o-Chlorotoluene	105			104		70-130	1		20	
p-Chlorotoluene	107			108		70-130	1		20	
1,2-Dibromo-3-chloropropane	89			90		41-144	1		20	
Hexachlorobutadiene	95			93		63-130	2		20	



Project Number: 170040901

Parameter	LCS %Recovery G	lual %	LCSD Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	
Volatile Organics by GC/MS - Westborou	ugh Lab Associated sam	ple(s): 04-05	Batch:	WG860835-1	WG860835-2				
Isopropylbenzene	104		105		70-130	1		20	
p-Isopropyltoluene	98		99		70-130	1		20	
Naphthalene	73		76		70-130	4		20	
n-Propylbenzene	107		108		69-130	1		20	
1,2,3-Trichlorobenzene	77		82		70-130	6		20	
1,2,4-Trichlorobenzene	81		83		70-130	2		20	
1,3,5-Trimethylbenzene	107		108		64-130	1		20	
1,2,4-Trimethylbenzene	101		102		70-130	1		20	
Methyl Acetate	98		98		70-130	0		20	
Ethyl Acetate	100		101		70-130	1		20	
Cyclohexane	96		97		70-130	1		20	
Ethyl-Tert-Butyl-Ether	106		107		70-130	1		20	
Tertiary-Amyl Methyl Ether	95		97		66-130	2		20	
1,4-Dioxane	130		138		56-162	6		20	
1,1,2-Trichloro-1,2,2-Trifluoroethane	88		88		70-130	0		20	
p-Diethylbenzene	95		96		70-130	1		20	
p-Ethyltoluene	108		110		70-130	2		20	
1,2,4,5-Tetramethylbenzene	91		92		70-130	1		20	
Ethyl ether	92		92		59-134	0		20	
trans-1,4-Dichloro-2-butene	86		87		70-130	1		20	
lodomethane	21	Q	42	Q	70-130	67	Q	20	



Project Name: RIVERSIDE PLACE

Project Number: 170040901

 Lab Number:
 L1601873

 Report Date:
 01/28/16

	LCS			LCSD		%Recovery			RPD	
Parameter	%Recovery	Qual	%R	ecovery	Qual	Limits	RPD	Qual	Limits	
Volatile Organics by GC/MS - Westborough L	ab Associated	sample(s):	04-05	Batch:	WG860835-1	WG860835-2				
Methyl cyclohexane	99			100		70-130	1		20	

	LCS	LCSD		Acceptance		
Surrogate	%Recovery	Qual	%Recovery	Qual	Criteria	
1,2-Dichloroethane-d4	90		91		70-130	
Toluene-d8	100		101		70-130	
4-Bromofluorobenzene	107		108		70-130	
Dibromofluoromethane	92		92		70-130	



SEMIVOLATILES



			Serial_N	p:01281617:11
Project Name:	RIVERSIDE PLACE		Lab Number:	L1601873
Project Number:	170040901		Report Date:	01/28/16
		SAMPLE RESULTS		
Lab ID:	L1601873-01		Date Collected:	01/21/16 14:00
Client ID:	EP01_05_012116		Date Received:	01/21/16
Sample Location:	ONE RIVER PLACE		Field Prep:	Not Specified
Matrix:	Soil		Extraction Metho	d:EPA 3546
Analytical Method:	1,8270D		Extraction Date:	01/26/16 14:13
Analytical Date:	01/27/16 22:29			
Analyst:	AL			
Percent Solids:	90%			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/M	S - Westborough Lab					
Acenaphthene	20	J	ug/kg	140	19.	1
Fluoranthene	560		ug/kg	110	21.	1
Naphthalene	ND		ug/kg	180	22.	1
Benzo(a)anthracene	310		ug/kg	110	20.	1
Benzo(a)pyrene	290		ug/kg	140	44.	1
Benzo(b)fluoranthene	390		ug/kg	110	31.	1
Benzo(k)fluoranthene	140		ug/kg	110	29.	1
Chrysene	270		ug/kg	110	19.	1
Acenaphthylene	58	J	ug/kg	140	28.	1
Anthracene	110		ug/kg	110	36.	1
Benzo(ghi)perylene	200		ug/kg	140	21.	1
Fluorene	19	J	ug/kg	180	18.	1
Phenanthrene	330		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	89	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	240		ug/kg	140	25.	1
Pyrene	470		ug/kg	110	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
Nitrobenzene-d5	77		23-120	
2-Fluorobiphenyl	75		30-120	
4-Terphenyl-d14	58		18-120	



			Serial_No	p:01281617:11
Project Name:	RIVERSIDE PLACE		Lab Number:	L1601873
Project Number:	170040901		Report Date:	01/28/16
		SAMPLE RESULTS		
Lab ID:	L1601873-02		Date Collected:	01/21/16 14:05
Client ID:	EP02_05_012116		Date Received:	01/21/16
Sample Location:	ONE RIVER PLACE		Field Prep:	Not Specified
Matrix:	Soil		Extraction Methor	d:EPA 3546
Analytical Method:	1,8270D		Extraction Date:	01/26/16 14:13
Analytical Date:	01/27/16 22:55			
Analyst:	AL			
Percent Solids:	89%			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS	S - Westborough Lab					
Acenaphthene	ND		ug/kg	150	19.	1
Fluoranthene	420		ug/kg	110	21.	1
Naphthalene	24	J	ug/kg	180	23.	1
Benzo(a)anthracene	290		ug/kg	110	21.	1
Benzo(a)pyrene	320		ug/kg	150	45.	1
Benzo(b)fluoranthene	400		ug/kg	110	31.	1
Benzo(k)fluoranthene	140		ug/kg	110	30.	1
Chrysene	260		ug/kg	110	19.	1
Acenaphthylene	66	J	ug/kg	150	29.	1
Anthracene	85	J	ug/kg	110	36.	1
Benzo(ghi)perylene	220		ug/kg	150	22.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	170		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	93	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	260		ug/kg	150	26.	1
Pyrene	410		ug/kg	110	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
Nitrobenzene-d5	80		23-120	
2-Fluorobiphenyl	74		30-120	
4-Terphenyl-d14	59		18-120	



				Serial_No	p:01281617:11
Project Name:	RIVERSIDE PLACE			Lab Number:	L1601873
Project Number:	170040901			Report Date:	01/28/16
			SAMPLE RESULTS		
Lab ID:	L1601873-03	D		Date Collected:	01/21/16 14:00
Client ID:	DUP01			Date Received:	01/21/16
Sample Location:	ONE RIVER PLAC	E		Field Prep:	Not Specified
Matrix:	Soil			Extraction Methor	d:EPA 3546
Analytical Method:	1,8270D			Extraction Date:	01/26/16 14:13
Analytical Date:	01/28/16 07:52				
Analyst:	AL				
Percent Solids:	81%				

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor		
Semivolatile Organics by GC/MS - Westborough Lab								
Acenaphthene	ND		ug/kg	320	42.	2		
Fluoranthene	220	J	ug/kg	240	46.	2		
Naphthalene	ND		ug/kg	400	49.	2		
Benzo(a)anthracene	130	J	ug/kg	240	46.	2		
Benzo(a)pyrene	140	J	ug/kg	320	99.	2		
Benzo(b)fluoranthene	160	J	ug/kg	240	68.	2		
Benzo(k)fluoranthene	70	J	ug/kg	240	65.	2		
Chrysene	140	J	ug/kg	240	42.	2		
Acenaphthylene	ND		ug/kg	320	62.	2		
Anthracene	ND		ug/kg	240	79.	2		
Benzo(ghi)perylene	100	J	ug/kg	320	48.	2		
Fluorene	ND		ug/kg	400	39.	2		
Phenanthrene	91	J	ug/kg	240	49.	2		
Dibenzo(a,h)anthracene	ND		ug/kg	240	47.	2		
Indeno(1,2,3-cd)pyrene	97	J	ug/kg	320	56.	2		
Pyrene	220	J	ug/kg	240	40.	2		

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
Nitrobenzene-d5	76		23-120	
2-Fluorobiphenyl	63		30-120	
4-Terphenyl-d14	41		18-120	



			Serial_N	o:01281617:11
Project Name:	RIVERSIDE PLACE		Lab Number:	L1601873
Project Number:	170040901		Report Date:	01/28/16
		SAMPLE RESULTS		
Lab ID:	L1601873-04		Date Collected:	01/21/16 14:15
Client ID:	FIELD BLANK		Date Received:	01/21/16
Sample Location:	ONE RIVER PLACE		Field Prep:	Not Specified
Matrix:	Water		Extraction Metho	d:EPA 3510C
Analytical Method:	1,8270D		Extraction Date:	01/26/16 08:38
Analytical Date:	01/27/16 15:18			
Analyst:	AL			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor		
Semivolatile Organics by GC/MS - Westborough Lab								
Acenaphthene	ND		ug/l	2.0	0.59	1		
Fluoranthene	ND		ug/l	2.0	0.57	1		
Naphthalene	ND		ug/l	2.0	0.68	1		
Benzo(a)anthracene	ND		ug/l	2.0	0.61	1		
Benzo(a)pyrene	ND		ug/l	2.0	0.54	1		
Benzo(b)fluoranthene	ND		ug/l	2.0	0.64	1		
Benzo(k)fluoranthene	ND		ug/l	2.0	0.60	1		
Chrysene	ND		ug/l	2.0	0.54	1		
Acenaphthylene	ND		ug/l	2.0	0.66	1		
Anthracene	ND		ug/l	2.0	0.64	1		
Benzo(ghi)perylene	ND		ug/l	2.0	0.61	1		
Fluorene	ND		ug/l	2.0	0.62	1		
Phenanthrene	ND		ug/l	2.0	0.61	1		
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.55	1		
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.71	1		
Pyrene	ND		ug/l	2.0	0.57	1		

Surrogate	% Recovery	Acceptance Qualifier Criteria
2-Fluorophenol	40	21-120
Phenol-d6	28	10-120
Nitrobenzene-d5	70	23-120
2-Fluorobiphenyl	78	15-120
2,4,6-Tribromophenol	88	10-120
4-Terphenyl-d14	103	41-149



Project Name:	RIVERSIDE PLACE	Lab Number:	L1601873
Project Number:	170040901	Report Date:	01/28/16

Method Blank Analysis Batch Quality Control

Analytical Method:	1,8270D
Analytical Date:	01/27/16 16:26
Analyst:	AL

Extraction Method: EPA 3510C Extraction Date: 01/26/16 08:38

Parameter	Result	Qualifier	Units		RL	MDL
Semivolatile Organics by GC/MS	- Westborougl	n Lab for sa	ample(s):	04	Batch:	WG860255-1
Acenaphthene	ND		ug/l		2.0	0.59
Fluoranthene	ND		ug/l		2.0	0.57
Naphthalene	ND		ug/l		2.0	0.68
Benzo(a)anthracene	ND		ug/l		2.0	0.61
Benzo(a)pyrene	ND		ug/l		2.0	0.54
Benzo(b)fluoranthene	ND		ug/l		2.0	0.64
Benzo(k)fluoranthene	ND		ug/l		2.0	0.60
Chrysene	ND		ug/l		2.0	0.54
Acenaphthylene	ND		ug/l		2.0	0.66
Anthracene	ND		ug/l		2.0	0.64
Benzo(ghi)perylene	ND		ug/l		2.0	0.61
Fluorene	ND		ug/l		2.0	0.62
Phenanthrene	ND		ug/l		2.0	0.61
Dibenzo(a,h)anthracene	ND		ug/l		2.0	0.55
Indeno(1,2,3-cd)pyrene	ND		ug/l		2.0	0.71
Pyrene	ND		ug/l		2.0	0.57

		Acceptance				
Surrogate	%Recovery	Qualifier	Criteria			
2-Fluorophenol	31		21-120			
Phenol-d6	20		10-120			
Nitrobenzene-d5	37		23-120			
2-Fluorobiphenyl	44		15-120			
2,4,6-Tribromophenol	54		10-120			
4-Terphenyl-d14	55		41-149			



Project Name:	RIVERSIDE PLACE		Lab Number:	L1601873
Project Number:	170040901		Report Date:	01/28/16
		Math ad Diaula Avaluate		

Method Blank Analysis Batch Quality Control

Analytical Method:	1,8270D
Analytical Date:	01/27/16 19:29
Analyst:	AL

Extraction Method: EPA 3546 Extraction Date: 01/26/16 14:13

Parameter	Result	Qualifier	Units	RL		MDL
Semivolatile Organics by GC	/MS - Westborougl	n Lab for s	ample(s):	01-03	Batch:	WG860391-1
Acenaphthene	ND		ug/kg	130		17.
Fluoranthene	ND		ug/kg	99		19.
Naphthalene	ND		ug/kg	160		20.
Benzo(a)anthracene	ND		ug/kg	99		19.
Benzo(a)pyrene	ND		ug/kg	130		40.
Benzo(b)fluoranthene	ND		ug/kg	99		28.
Benzo(k)fluoranthene	ND		ug/kg	99		26.
Chrysene	ND		ug/kg	99		17.
Acenaphthylene	ND		ug/kg	130		26.
Anthracene	ND		ug/kg	99		32.
Benzo(ghi)perylene	ND		ug/kg	130		19.
Fluorene	ND		ug/kg	160		16.
Phenanthrene	ND		ug/kg	99		20.
Dibenzo(a,h)anthracene	ND		ug/kg	99		19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130		23.
Pyrene	ND		ug/kg	99		16.

	Acceptance						
Surrogate	%Recovery	Qualifier Criteria					
2-Fluorophenol	68	25-120					
Phenol-d6	71	10-120					
Nitrobenzene-d5	68	23-120					
2-Fluorobiphenyl	70	30-120					
2,4,6-Tribromophenol	60	10-136					
4-Terphenyl-d14	70	18-120					



Batch Quality Control

Project Number: 170040901

Lab Number: L1601873 Report Date: 01/28/16

LCSD LCS %Recovery RPD %Recovery RPD %Recovery Limits Limits Parameter Qual Qual Qual Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG860255-2 WG860255-3 107 37-111 Q 30 Acenaphthene 61 55 1,2,4-Trichlorobenzene 96 54 39-98 56 Q 30 Hexachlorobenzene 62 40-140 Q 30 106 52 Bis(2-chloroethyl)ether Q 97 54 40-140 57 30 2-Chloronaphthalene 40-140 Q 30 101 57 56 Q 30 1.2-Dichlorobenzene 94 56 40-140 51 1,3-Dichlorobenzene 93 54 40-140 53 Q 30 1.4-Dichlorobenzene 94 55 36-97 52 Q 30 3.3'-Dichlorobenzidine 40-140 Q 30 79 47 51 2,4-Dinitrotoluene 24-96 Q 30 83 45 59 2.6-Dinitrotoluene 42 40-140 Q 30 80 62 Fluoranthene 112 64 40-140 55 Q 30 4-Chlorophenyl phenyl ether 40-140 Q 30 105 61 53 4-Bromophenyl phenyl ether 62 Q 30 108 40-140 54 Bis(2-chloroisopropyl)ether 40-140 Q 30 93 53 55 Bis(2-chloroethoxy)methane 40-140 Q 30 103 56 59 Hexachlorobutadiene 92 53 40-140 54 Q 30 Hexachlorocyclopentadiene 56 40 40-140 33 Q 30 Hexachloroethane Q 30 79 45 40-140 55 40-140 Q 30 Isophorone 99 56 55 Naphthalene 103 58 40-140 Q 30 56



Batch Quality Control

Project Name: RIVERSIDE PLACE

Project Number: 170040901

Lab Number: L1601873 Report Date: 01/28/16

LCSD LCS %Recovery RPD %Recovery RPD %Recovery Limits Limits Parameter Qual Qual Qual Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG860255-2 WG860255-3 52 40-140 Q 30 Nitrobenzene 99 62 NitrosoDiPhenylAmine(NDPA)/DPA 107 62 40-140 53 Q 30 n-Nitrosodi-n-propylamine 100 55 29-132 Q 30 58 Bis(2-Ethylhexyl)phthalate Q 129 71 40-140 58 30 Butyl benzyl phthalate 116 64 40-140 Q 30 58 Di-n-butylphthalate Q 30 119 67 40-140 56 Di-n-octylphthalate 130 72 40-140 57 Q 30 Diethyl phthalate 112 63 40-140 Q 30 56 Dimethyl phthalate 40-140 Q 30 103 60 53 Benzo(a)anthracene 40-140 Q 30 113 65 54 Benzo(a)pyrene 110 40-140 Q 30 61 57 Benzo(b)fluoranthene 108 61 40-140 56 Q 30 Benzo(k)fluoranthene 63 40-140 Q 30 114 58 65 40-140 Q 30 Chrysene 116 56 Acenaphthylene 45-123 Q 30 102 57 57 Anthracene 69 40-140 Q 30 120 54 Benzo(ghi)perylene 104 60 40-140 54 Q 30 Fluorene 110 63 40-140 54 Q 30 Phenanthrene Q 30 111 64 40-140 54 Dibenzo(a,h)anthracene 40-140 Q 30 104 58 57 Indeno(1,2,3-cd)Pyrene 104 59 40-140 Q 30 55



Batch Quality Control

Project Name: RIVERSIDE PLACE

Project Number: 170040901

Lab Number: L1601873 Report Date: 01/28/16

LCSD LCS %Recovery RPD %Recovery Limits RPD Limits %Recovery Qual Parameter Qual Qual Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG860255-2 WG860255-3 114 63 26-127 Q 30 Pyrene 58 Q Biphenyl 107 62 54-104 53 Q 30 4-Chloroaniline 82 48 40-140 Q 30 52 Q 30 2-Nitroaniline 118 64 52-143 59 3-Nitroaniline 129 74 25-145 Q 30 54 4-Nitroaniline 51-143 Q 30 138 77 57 Dibenzofuran 105 61 40-140 53 Q 30 2-Methylnaphthalene 103 57 40-140 Q 30 58 1,2,4,5-Tetrachlorobenzene 59 2-134 Q 30 102 53 39-129 Q 30 Acetophenone 110 61 57 2,4,6-Trichlorophenol 116 64 30-130 Q 30 58 P-Chloro-M-Cresol Q 113 63 23-97 57 Q 30 2-Chlorophenol 105 58 27-123 Q 30 58 2,4-Dichlorophenol 63 30-130 Q 30 116 59 2,4-Dimethylphenol 30-130 Q 30 118 65 58 2-Nitrophenol Q 30-130 Q 30 47 26 58 4-Nitrophenol 51 30 10-80 52 Q 30 Q Q 2,4-Dinitrophenol 15 13 20-130 14 30 4,6-Dinitro-o-cresol Q Q 30 14 12 20-164 15 Pentachlorophenol 102 50 9-103 Q 30 68 Phenol 48 27 12-110 Q 30 56



Project Name: RIVERSIDE PLACE

Project Number: 170040901

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	
Semivolatile Organics by GC/MS - Westbord	ough Lab Associa	ated sample(s):	04 Batch:	WG860255-2	WG860255-3				
2-Methylphenol	97		54		30-130	57	Q	30	
3-Methylphenol/4-Methylphenol	92		51		30-130	57	Q	30	
2,4,5-Trichlorophenol	115		64		30-130	57	Q	30	
Benzoic Acid	57		34		10-110	51	Q	30	
Benzyl Alcohol	84		48		15-110	55	Q	30	
Carbazole	111		64		55-144	54	Q	30	

	LCS	LCSD		Acceptance		
Surrogate	%Recovery	Qual	%Recovery	Qual	Criteria	
2-Fluorophenol	69		38		21-120	
Phenol-d6	47		27		10-120	
Nitrobenzene-d5	96		51		23-120	
2-Fluorobiphenyl	95		51		15-120	
2,4,6-Tribromophenol	107		57		10-120	
4-Terphenyl-d14	102		57		41-149	



Project Number: 170040901

Parameter	LCS %Recovery Qual	LCSD %Recovery	%Recovery Qual Limits	RPD	RPD Qual Limits
Semivolatile Organics by GC/MS - Westbo	rough Lab Associated sam	ple(s): 01-03 Batch	: WG860391-2 WG860391-	-3	
Acenaphthene	53	52	31-137	2	50
Benzidine	33	37	10-66	11	50
n-Nitrosodimethylamine	45	44	22-100	2	50
1,2,4-Trichlorobenzene	56	54	38-107	4	50
Hexachlorobenzene	57	56	40-140	2	50
Bis(2-chloroethyl)ether	53	53	40-140	0	50
2-Chloronaphthalene	61	60	40-140	2	50
1,2-Dichlorobenzene	55	56	40-140	2	50
1,3-Dichlorobenzene	54	54	40-140	0	50
1,4-Dichlorobenzene	54	55	28-104	2	50
3,3'-Dichlorobenzidine	46	45	40-140	2	50
2,4-Dinitrotoluene	60	59	28-89	2	50
2,6-Dinitrotoluene	70	70	40-140	0	50
Fluoranthene	58	57	40-140	2	50
4-Chlorophenyl phenyl ether	55	55	40-140	0	50
4-Bromophenyl phenyl ether	58	58	40-140	0	50
Azobenzene	50	50	40-140	0	50
Bis(2-chloroisopropyl)ether	45	45	40-140	0	50
Bis(2-chloroethoxy)methane	57	57	40-117	0	50
Hexachlorobutadiene	55	55	40-140	0	50
Hexachlorocyclopentadiene	72	72	40-140	0	50



Project Name: RIVERSIDE PLACE

Project Number: 170040901

Parameter	LCS %Recovery Qua	LCSD I %Recovery	%Recovery Qual Limits	RPD	RPD Qual Limits
Semivolatile Organics by GC/MS - Westh	oorough Lab Associated sa	mple(s): 01-03 Batch	n: WG860391-2 WG860391	-3	
Hexachloroethane	55	56	40-140	2	50
Isophorone	58	58	40-140	0	50
Naphthalene	55	54	40-140	2	50
Nitrobenzene	54	52	40-140	4	50
NitrosoDiPhenylAmine(NDPA)/DPA	58	58	36-157	0	50
n-Nitrosodi-n-propylamine	56	56	32-121	0	50
Bis(2-Ethylhexyl)phthalate	52	52	40-140	0	50
Butyl benzyl phthalate	58	58	40-140	0	50
Di-n-butylphthalate	57	58	40-140	2	50
Di-n-octylphthalate	58	57	40-140	2	50
Diethyl phthalate	57	56	40-140	2	50
Dimethyl phthalate	56	55	40-140	2	50
Benzo(a)anthracene	56	55	40-140	2	50
Benzo(a)pyrene	58	56	40-140	4	50
Benzo(b)fluoranthene	59	57	40-140	3	50
Benzo(k)fluoranthene	54	52	40-140	4	50
Chrysene	52	51	40-140	2	50
Acenaphthylene	64	62	40-140	3	50
Anthracene	56	55	40-140	2	50
Benzo(ghi)perylene	57	54	40-140	5	50
Fluorene	56	56	40-140	0	50



Project Name: RIVERSIDE PLACE

Project Number: 170040901

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	RPD Qual Limits	
Semivolatile Organics by GC/MS -	Westborough Lab Assoc	iated sample(s)	01-03 Batch	n: WG860	391-2 WG860391	-3		
Phenanthrene	52		51		40-140	2	50	
Dibenzo(a,h)anthracene	54		51		40-140	6	50	
Indeno(1,2,3-cd)Pyrene	55		53		40-140	4	50	
Pyrene	57		56		35-142	2	50	
Biphenyl	54		52	Q	54-104	4	50	
Aniline	36	Q	38	Q	40-140	5	50	
4-Chloroaniline	55		54		40-140	2	50	
2-Nitroaniline	70		68		47-134	3	50	
3-Nitroaniline	45		45		26-129	0	50	
4-Nitroaniline	58		57		41-125	2	50	
Dibenzofuran	55		54		40-140	2	50	
2-Methylnaphthalene	59		58		40-140	2	50	
1,2,4,5-Tetrachlorobenzene	50		50		40-117	0	50	
Acetophenone	61		61		14-144	0	50	
2,4,6-Trichlorophenol	71		70		30-130	1	50	
P-Chloro-M-Cresol	67		66		26-103	2	50	
2-Chlorophenol	61		60		25-102	2	50	
2,4-Dichlorophenol	66		65		30-130	2	50	
2,4-Dimethylphenol	66		69		30-130	4	50	
2-Nitrophenol	68		68		30-130	0	50	
4-Nitrophenol	61		58		11-114	5	50	



Project Number: 170040901

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	
Semivolatile Organics by GC/MS - Westbo	rough Lab Assoc	iated sample(s)	: 01-03 Batch	n: WG860	391-2 WG860391-	3			
2,4-Dinitrophenol	82		81		4-130	1		50	
4,6-Dinitro-o-cresol	67		68		10-130	1		50	
Pentachlorophenol	56		57		17-109	2		50	
Phenol	52		51		26-90	2		50	
2-Methylphenol	61		61		30-130.	0		50	
3-Methylphenol/4-Methylphenol	58		58		30-130	0		50	
2,4,5-Trichlorophenol	71		69		30-130	3		50	
Benzoic Acid	81	Q	80	Q	10-66	1		50	
Benzyl Alcohol	60		59		40-140	2		50	
Carbazole	56		54		54-128	4		50	
Benzaldehyde	48		48		40-140	0		50	
Caprolactam	65		64		15-130	2		50	
Atrazine	67		67		40-140	0		50	
2,3,4,6-Tetrachlorophenol	61		61		40-140	0		50	
Pyridine	40		40		10-93	0		50	
Parathion, ethyl	83		82		40-140	1		50	
1-Methylnaphthalene	57		57		26-130	0		50	


Lab Control Sample Analysis Batch Quality Control

Project Name: RIVERSIDE PLACE

Project Number: 170040901

Lab Number: L1601873

Report Date: 01/28/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	% Qual	6Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborou	gh Lab Associat	ed sample(s):	: 01-03 Batch:	WG860391-	-2 WG860391-3			

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	
2-Fluorophenol	61		59		25-120	
Phenol-d6	63		61		10-120	
Nitrobenzene-d5	60		58		23-120	
2-Fluorobiphenyl	62		60		30-120	
2,4,6-Tribromophenol	54		53		10-136	
4-Terphenyl-d14	58		56		18-120	



INORGANICS & MISCELLANEOUS



Serial	No:01281617:11
Ochai	110.01201017.11

Field Prep:

Not Specified

Project Name:	RIVERSIDE PLACE		Lab Number:	L1601873
Project Number:	170040901		Report Date:	01/28/16
		SAMPLE RESULTS		
Lab ID:	L1601873-01		Date Collected:	01/21/16 14:00
Client ID:	EP01_05_012116		Date Received:	01/21/16

Sample Location: ONE RIVER PLACE

Soil

Matrix:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry	- Westborough Lab)								
Solids, Total	90.2		%	0.100	NA	1	-	01/22/16 12:09	30,2540G	RI



Serial	No:01281617:11
Contai	110.01201017.11

Field Prep:

Not Specified

Project Name:	RIVERSIDE PLACE		Lab Number:	L1601873
Project Number:	170040901		Report Date:	01/28/16
		SAMPLE RESULTS		
Lab ID:	L1601873-02		Date Collected:	01/21/16 14:05
Client ID:	EP02_05_012116		Date Received:	01/21/16

Sample Location: ONE RIVER PLACE

Soil

Matrix:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - W	/estborough Lat)								
Solids, Total	88.8		%	0.100	NA	1	-	01/22/16 12:09	30,2540G	RI



								Serial_No:012	281617:11	
Project Name:	RIVERSIDE	PLACE					Lab N	lumber:	L1601873	
Project Number:	170040901						Report Date: 01/28/16			
				SAMPLE	RESUL	тs				
Lab ID:	L1601873-0	3				Date	Collected:	01/21/16 14:0	0	
Client ID:	DUP01				Date	Received:	01/21/16			
Sample Location:	ONE RIVER PI	LACE					Field	Field Prep: Not Specified		
Matrix:	Soil									
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - We	stborough Lat	C								
Solids, Total	80.9		%	0.100	NA	1	-	01/22/16 12:09	30,2540G	RI



20

Project Name: Project Number:	RIVERSIDE PLACE 170040901	La	b Duplicate Analy Batch Quality Control	SIS	L	r: L1601873 e: 01/28/16	
Parameter		Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Wes	stborough Lab Associated sa	ample(s): 01-03 QC Batc	h ID: WG859532-1 QC	Sample: L	1601835-01	Client ID:	DUP Sample

80.1

%

0

80.2

Solids, Total

Lab Number: L1601873 Report Date: 01/28/16

Project Name: RIVERSIDE PLACE Project Number: 170040901

Sample Receipt and Container Information

Temp

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: 22-JAN-16 05:47

Cooler Information Custody Seal Cooler

А

Absent

Containe	r Info	rmation
Containe		mation

Container ID	Container Type	Cooler	рН	deg Ċ	Pres	Seal	Analysis(*)
L1601873-01A	5 gram Encore Sampler	А	N/A	2.1	Y	Absent	NYTCL-8260HLW(2)
L1601873-01B	5 gram Encore Sampler	А	N/A	2.1	Y	Absent	NYTCL-8260HLW(2)
L1601873-01C	5 gram Encore Sampler	А	N/A	2.1	Y	Absent	NYTCL-8260HLW(2)
L1601873-01D	Plastic 2oz unpreserved for TS	А	N/A	2.1	Y	Absent	TS(7)
L1601873-01E	Glass 250ml/8oz unpreserved	А	N/A	2.1	Y	Absent	NYTCL-8270(14)
L1601873-01X	Vial MeOH preserved split	А	N/A	2.1	Y	Absent	NYTCL-8260HLW(14)
L1601873-01Y	Vial Water preserved split	А	N/A	2.1	Y	Absent	NYTCL-8260HLW(14)
L1601873-01Z	Vial Water preserved split	А	N/A	2.1	Y	Absent	NYTCL-8260HLW(14)
L1601873-02A	5 gram Encore Sampler	А	N/A	2.1	Y	Absent	NYTCL-8260HLW(2)
L1601873-02B	5 gram Encore Sampler	А	N/A	2.1	Y	Absent	NYTCL-8260HLW(2)
L1601873-02C	5 gram Encore Sampler	А	N/A	2.1	Y	Absent	NYTCL-8260HLW(2)
L1601873-02D	Plastic 2oz unpreserved for TS	А	N/A	2.1	Y	Absent	TS(7)
L1601873-02E	Glass 250ml/8oz unpreserved	А	N/A	2.1	Y	Absent	NYTCL-8270(14)
L1601873-02X	Vial MeOH preserved split	А	N/A	2.1	Y	Absent	NYTCL-8260HLW(14)
L1601873-02Y	Vial Water preserved split	А	N/A	2.1	Y	Absent	NYTCL-8260HLW(14)
L1601873-02Z	Vial Water preserved split	А	N/A	2.1	Y	Absent	NYTCL-8260HLW(14)
L1601873-03A	5 gram Encore Sampler	А	N/A	2.1	Y	Absent	NYTCL-8260HLW(2)
L1601873-03B	5 gram Encore Sampler	А	N/A	2.1	Y	Absent	NYTCL-8260HLW(2)
L1601873-03C	5 gram Encore Sampler	А	N/A	2.1	Y	Absent	NYTCL-8260HLW(2)
L1601873-03D	Plastic 2oz unpreserved for TS	А	N/A	2.1	Y	Absent	TS(7)
L1601873-03E	Glass 250ml/8oz unpreserved	А	N/A	2.1	Y	Absent	NYTCL-8270(14)
L1601873-03X	Vial MeOH preserved split	А	N/A	2.1	Y	Absent	NYTCL-8260HLW(14)
L1601873-03Y	Vial Water preserved split	А	N/A	2.1	Y	Absent	NYTCL-8260HLW(14)
L1601873-03Z	Vial Water preserved split	А	N/A	2.1	Y	Absent	NYTCL-8260HLW(14)
L1601873-04A	Vial HCI preserved	А	N/A	2.1	Y	Absent	NYTCL-8260(14)
L1601873-04B	Vial HCI preserved	А	N/A	2.1	Y	Absent	NYTCL-8260(14)
L1601873-04C	Vial HCI preserved	А	N/A	2.1	Y	Absent	NYTCL-8260(14)



Lab Number: L1601873 Report Date: 01/28/16

Project Name: RIVERSIDE PLACE Project Number: 170040901

Container Info	Temp						
Container ID	Container Type	Cooler	рΗ	deg C	Pres	Seal	Analysis(*)
L1601873-04D	Amber 1000ml unpreserved	А	7	2.1	Y	Absent	NYTCL-8270(7)
L1601873-04E	Amber 1000ml unpreserved	А	7	2.1	Y	Absent	NYTCL-8270(7)
L1601873-05A	Vial HCI preserved	А	N/A	2.1	Y	Absent	NYTCL-8260(14)
L1601873-05B	Vial HCI preserved	А	N/A	2.1	Y	Absent	NYTCL-8260(14)



Project Name: RIVERSIDE PLACE

Project Number: 170040901

Lab Number: L1601873

Report Date: 01/28/16

GLOSSARY

Acronyms

- EDL Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
- EPA Environmental Protection Agency.
- LCS Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
- LCSD Laboratory Control Sample Duplicate: Refer to LCS.
- LFB Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
- MDL Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- MS Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
- MSD Matrix Spike Sample Duplicate: Refer to MS.
- NA Not Applicable.
- NC Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
- NI Not Ignitable.
- NP Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
- RL Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- RPD Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
- SRM Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
- STLP Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
- TIC Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A Spectra identified as "Aldol Condensation Product".
- B The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

Report Format: DU Report with 'J' Qualifiers



Project Name: RIVERSIDE PLACE

Project Number: 170040901

Lab Number: L1601873

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Data Qualifiers

- C Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- **D** Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I The lower value for the two columns has been reported due to obvious interference.
- M Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- **P** The RPD between the results for the two columns exceeds the method-specified criteria.
- Q The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- **R** Analytical results are from sample re-analysis.
- **RE** Analytical results are from sample re-extraction.
- **S** Analytical results are from modified screening analysis.
- J Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.



Project Name: RIVERSIDE PLACE Project Number: 170040901
 Lab Number:
 L1601873

 Report Date:
 01/28/16

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 524.2: 1,2-Dibromo-3-chloropropane, 1,2-Dibromoethane, m/p-xylene, o-xylene EPA 624: 2-Butanone (MEK), 1,4-Dioxane, tert-Amylmethyl Ether, tert-Butyl Alcohol, m/p-xylene, o-xylene EPA 625: Aniline, Benzoic Acid, Benzyl Alcohol, 4-Chloroaniline, 3-Methylphenol, 4-Methylphenol. EPA 1010A: NPW: Ignitability EPA 6010C: NPW: Strontium; SCM: Strontium EPA 8151A: NPW: 2,4-DB, Dicamba, Dichloroprop, MCPA, MCPP; SCM: 2,4-DB, Dichloroprop, MCPA, MCPP EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene, Isopropanol; SCM: Iodomethane (methyl iodide), Methyl methacrylate (soil); 1.2,4,5-Tetramethylbenzene; 4-Ethyltoluene. EPA 8270D: NPW: Pentachloronitrobenzene, 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Pentachloronitrobenzene, 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine. EPA 9010: NPW: Amenable Cyanide Distillation, Total Cyanide Distillation EPA 9038: NPW: Sulfate EPA 9050A: NPW: Specific Conductance EPA 9056: NPW: Chloride, Nitrate, Sulfate EPA 9065: NPW: Phenols EPA 9251: NPW: Chloride SM3500: NPW: Ferrous Iron SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3. SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility

EPA 8270D: <u>NPW</u>: Biphenyl; <u>SCM</u>: Biphenyl **EPA 2540D:** TSS **EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water

EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; EPA 200.7: Ba,Be,Ca,Cd,Cr,Cu,Na; EPA 245.1: Mercury; EPA 300.0: Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B EPA 332: Perchlorate. Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.

Non-Potable Water

EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;

EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn; EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, SM4500NO3-F, EPA 353.2: Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D. EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs **EPA 625**: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil. **Microbiology**: **SM9223B-Colilert-QT**; Enterolert-QT, SM9222D-MF.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

ALPHA	NEW YORK CHAIN OF CUSTODY	<u>Service Centers</u> Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105			Page	e (f /		Date in I	Rec'd Lab	1/2	1/22/16		ALPHA Job # LIG01873	
Westborough, MA 01581 8 Walkup Dr.	Mansfield, MA 02048 320 Forbes Blvd	Project Information					Deliv	verable	s				Billing Information	
TEL: 508-898-9220	TEL: 508-822-9300	Project Name: Rive	aside 7	lace				ASP-	A] ASP-	·B	Same as Client Info	
FAX: 508-898-9193 FAX: 508-822-3288 Project Location: (2000, River Pluce)					EQuIS (1 File) EQUIS (4 File)						PO #			
Client Information		Project # 1700	4090	1			Other							
Client: Lungin Fr	upreced ve	(Use Project name as Pr	oject #)			1000mm 01	Regulatory Requirement						Disposal Site Information	
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Munhatten N.	Y 10001	ALPHAQuote #:					AWQ Standards NY CP-51						applicable disposal facilities.	
Phone: 212-4	79-5491	Turn-Around Time						NY Re	stricted l	Jse] Other		Disposal Facility:	
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Email: NRice O	Langen iom	Rush (only if pre approved)		# of Days:			NYC Sewer Discharge						Other:	
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02	EP02-0-5	012116	1/21/16	14:05	Ŝ	CA	×	X						
03	DUPOI		14:00	S	CA	X	X							
OY.	Field Blask	402 1/1/6			Í	CA	X	X						\neg
05	DOD Blank		<i>q=q</i> ₁ =				X							\neg
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$C = HNO_3 \qquad N$ $D = H_2SO_4 \qquad O$ $E = NaOH \qquad E$	V = Vial G = Glass B = Bacteria Cup				reservative	B	3 A					not be logged in and turnaround time clock will no start until any ambiguities a	ot	
F = MeOH	C = Cube	Relinquished By: Date/Time					Received By: Date/Time						resolved. BY EXECUTING	·•
$G = NaHSO_4$ (H = Na_S_O_4	D = Other E = Encore	Called 11 1/2/11/2 11-53 CL					Allista in the					THIS COC, THE CLIENT		
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Form No: 01-25 HC (rev. 30-	-Sept-2013)	GO 1. 5.00	~	Ibalin	0010	m	ha	lin	~\	1/20	111	AALA	(See reverse side.)	
and 51 of 51														