ARCADIS of New York, Inc.
6723 Towpath Road
P O Box 66
Syracuse
New York 13214-0066
Tel 315 446 9120
Fax 315 449 4111
www.arcadis-us.com

ENVIRONMENT

Mr. Steven M. Scharf, P.E.
New York State Department of Environmental Conservation
Division of Environmental Remediation
Remedial Bureau A
625 Broadway, 12th Floor
Albany, New York 12233-7016

Subject:
Bayer MaterialScience LLC
125 New South Road – Hicksville, New York
NYSDEC Site #130004
OU4 Remedial Activities
Additional PCB Soil Delineation Work Plan

Date:
May 3, 2013

Contact:
John C. Brussel, P.E.

Phone:
315.671.9441

Email:
John.Brussel@arcadis-us.com

Our ref:
B0032305.0008 #5

Dear Mr. Scharf:

On behalf of Bayer MaterialScience LLC (Bayer), this letter presents a work plan for further delineating the extent of soil at the above-referenced site containing polychlorinated biphenyls (PCBs) at concentrations exceeding the soil cleanup levels presented in the New York State Department of Environmental Conservation-(NYSDEC-) approved *Remedial Design* (ARCADIS, February 2013) ("the RD"). This work plan has been prepared as a follow-up to discussions with the NYSDEC during an April 8, 2013 telephone conference call and during the April 17, 2013 weekly construction coordination meeting. The proposed sampling activities described herein are in response to the analytical results for the following soil samples recently collected at the site in connection with the Operable Unit 4 (OU4) remedial action being implemented by Bayer's remedial contractor, The Environmental Quality Company (EQ):

- Baseline soil samples collected from the footprint of the two material staging areas and decontamination area in the western portion of the site (west of the railroad spur).

- Several confirmation soil samples collected from the limits of certain excavation areas in the eastern portion of the site.

PCBs were identified in these samples at concentrations exceeding the soil cleanup levels. The sampling described herein will also be performed to further assess the extent of arsenic in soil within the northwestern section of the site and polycyclic aromatic hydrocarbons (PAHs) in soil primarily in the western portion of the site. Arsenic has been identified in select confirmation soil samples at concentrations

exceeding its cleanup level, and certain PAHs have been identified at concentrations exceeding the individual commercial use soil cleanup objectives (SCOs) that are applicable to the top 1-foot of soil at the site.

The analytical results for the recent baseline and confirmation soil samples are summarized below, followed by details of the proposed delineation soil sampling activities and the anticipated schedule for implementing the activities.

I. RECENT SOIL SAMPLING ACTIVITIES AND RESULTS

Work performed and results of the recent baseline soil sampling performed within the material staging area footprints and the confirmation sampling performed in the eastern portion of the site are summarized below.

Material Staging Area/Decontamination Area Baseline Soil Sampling

EQ's sampling subcontractor, Preferred Environmental Services (PES), collected six baseline soil samples from the footprint of the material staging areas and decontamination area after EQ removed approximately 8-inches of soil from each area in preparation for construction. Soil was removed from these areas to provide a gentle slope for drainage and to generate material to construct berm sidewalls around each area. Soil samples were collected from the following locations prior to liner installation:

- Five locations within the proposed footprint of the material staging areas on March 6, 2013 (sampling locations BL-MS-1 through BL-MS-5).

- One location within the footprint of the decontamination area on March 13, 2013 (sampling location DP-BL-1).

One soil sample was collected per location at a depth of approximately 8 inches below the original grade. The baseline soil sampling locations and approximate material staging area and decontamination area footprints are shown on Figure 1. As shown on Figure 1, the material staging areas and decontamination area are located within or near the footprint of the former Plant 2 building. Note that the two material staging areas are located side-by-side within the footprint shown on Figure 1.

Sampling in this area of the site was not proposed in the RD because the RCRA Facility Investigation (RFI) analytical data indicated that PCB concentrations in this

area were well-below soil cleanup levels. PCBs were detected in RFI samples from sampling locations AOC 23-3 and AOC 23-4 (collected from the 1-foot depth interval immediately below the concrete floor slab in-place at the time) at estimated concentrations of 0.047 parts per million (ppm) and 0.034 ppm, respectively.

The analytical results for the soil samples collected from the footprint of the material staging areas and decontamination area are summarized in the table below.

Sampling Location	PCB Concentration (ppm)
Material Staging Area Footprints	
BL-MS-1	11
BL-MS-2	33
BL-MS-3	16
BL-MS-4	10
BL-MS-5	26
Decontamination Pad Footprint	
DP-BL-1	5.3
Note: The only Aroclor identified in the samples was Aroclor 1248.	

As indicated in the table above, PCBs were identified in each sampling location at concentrations exceeding the 1 ppm surface soil cleanup level established in the RD for soil within 1 foot from the ground surface.

Based on the baseline PCB soil analytical data from the material staging areas and decontamination area, the extent of soil containing PCBs in and around the footprint of the former Plant 2 building is unknown.

Confirmation Soil Sampling

EQ has completed soil removal within the “B” Group Excavation Areas to the proposed excavation limits shown in the RD. PCB, PAH, and metals analytical results have been received for confirmation soil samples collected from several of the excavation limits. These analytical results are presented in Table 1 and summarized below.

As discussed with the NYSDEC during the April 17, 2013 weekly construction coordination meeting, PCBs have been identified at concentrations exceeding the 1 ppm surface soil cleanup level in several confirmation samples along the northern and western limits of the adjoining excavations in the eastern section of the site,

including Areas 12B, 13B, and 14B. Excavation was performed to the required depth of 1 foot bgs in each of these three areas. The PCB analytical results for confirmation samples collected from these three excavation areas are summarized in the table below.

Confirmation Sampling Location	PCB Concentration (ppm)
Excavation Area 12B	
V-RD-208	4.9
V-RD-209	1.7
Excavation Area 13B	
V-RD-211	<0.265
V-RD-212	3.5
V-RD-213	15
V-RD-214	1.9
V-RD-215	7.7
V-RD-216	12
Excavation Area 14B	
V-RD-210	<0.028
V-RD-217	2.8
V-RD-221	4.2

PCBs have also been identified at concentrations exceeding the 1 ppm surface soil cleanup level in several confirmation samples in the southeastern portion of the site (e.g., the portion of Excavation Area 16B located south of the former rainwater runoff sumps identified as AOCs 28 and 29). The PCB analytical results for confirmation samples collected from these excavation areas are summarized in the table below.

Confirmation Sampling Location	PCB Concentration (ppm)
V-RD-231	0.049
V-RD-232	9.7
V-RD-233	1.9
V-RD-234	100
V-RD-235	12
V-RD-236	1.9

As indicated in the table above, PCBs were identified in soil sampling location V-RD-234 at a concentration exceeding the 50 ppm disposal threshold for a Toxic

Substances Control Act (TSCA) regulated PCB waste and New York State hazardous waste.

The data summarized above indicate that further delineation is needed to assess the following:

- The extent of soil in the eastern portion of the site (east of the railroad tracks and outside existing excavation limits) containing PCBs at concentrations exceeding the 1 ppm and 10 ppm surface and subsurface soil cleanup levels.

- The extent of soil containing PCBs at concentrations greater than 50 ppm in the immediate area around confirmation sampling location V-RD-234.

Arsenic has also been identified in six confirmation samples collected from the northwestern portion of the site (V-RD-6, V-RD-16 through V-RD-19, and V-RD-27) at concentrations exceeding the 16 ppm soil cleanup level established in the RD. The arsenic concentrations at these locations range from 21.3 ppm to 37.9 ppm. One or more individual PAH constituents have been identified in 18 confirmation soil samples collected in the northern portion of the site (around Excavation Areas 3B, 4B, 7B, 10B, and 11B) at concentrations, which for the most part, only slightly exceed the individual commercial use SCOs that are applicable for the top 1-foot of soil at the site. The verification soil analytical results for arsenic and PAHs are summarized in the Table 1. Further delineation is needed to assess the extent of soil in the northwestern portion of the site containing arsenic at concentrations exceeding the 16 ppm soil cleanup level and the extent of surface soil outside existing/former excavation limits containing PAHs at concentrations exceeding commercial use SCOs.

For reference, Attachment A contains three figures with hand-markups showing the existing verification soil sampling locations where PCBs, arsenic, and PAHs have been identified at concentrations exceeding soil cleanup levels (as of April 26, 2013). The proposed delineation soil sampling locations are also shown on these figures (refer to the green triangles).

II. PROPOSED ADDITIONAL DELINEATION SOIL SAMPLING

Based on the information presented above, a comprehensive soil boring and sampling program will be implemented in areas of the site that were not previously sampled. The program is intended to provide data to:

- Assess the extent of soil in the western portion of the site (west of the railroad spur) and in the eastern portion of the site (outside existing excavation limits) containing PCBs.

- Assess the extent of soil in the northwestern portion of the site containing arsenic.

- Assess the extent of surface soil outside existing and former excavation limits containing PAHs.

Soil borings will be drilled at 120 grid-based sampling locations to provide coverage in the above-identified areas. Most of the proposed sampling locations will be on a 60-foot grid established over the western section of the site and extending into the eastern section of the site. The grid size will be reduced to 30-feet around the material staging areas and to the north of Excavation Areas 9A, 12B, and 13B to provide a greater sample density in these areas. The grid will be expanded to approximately 120 feet in the far western portion of the site (in and around the former paved driveway entrance, the paved parking lots, and surrounding undeveloped grass-covered areas). The proposed and existing sampling locations are shown on Figure 1. As indicated on Figure 1, each proposed sampling location will be designated by the prefix “SB-” followed by a unique number for each location.

Before sampling begins, the proposed sampling locations will be field-identified using coordinates obtained from the sampling locations map. Each proposed sampling location will be marked using either a flagged metal pin or wooden stake.

Soil borings will be drilled and sampled using direct-push methods (i.e., Geoprobe® rig). Most of the borings will be drilled to a depth of approximately 10 feet below ground surface (bgs), which is equivalent to the excavation cut-off depth for remediation as proposed in the RD. Select borings will be drilled to a depth of approximately 4 feet bgs. These shallower borings are located in the following areas where existing data indicates that soil containing PCBs at concentrations exceeding soil cleanup levels is relatively shallow (4 feet or less):

- North of Excavation Areas 9A, 12B, and 13B

- South of the material staging areas

Soil samples will be continuously collected from each boring. The presence of visible staining or obvious odors in the recovered soil samples will be noted. Extensive

visual soil classification data is available from the previous boring programs at the site. Considering the goals of the proposed sampling program (delineation of PCBs, arsenic, and PAHs at concentrations exceeding soil cleanup levels) and for purposes of expediting the field implementation of this program, soils removed from the borings will not be characterized for color, texture, moisture, density, cohesion, and plasticity. Digital photos will only be taken to document unusual findings (staining, non-aqueous phase liquid, etc.).

Soil samples collected from the 0- to 0.5-foot, 0.5- to 2-foot, and 2- to 4-foot depth intervals at each soil boring location (and from each 2-foot interval below a depth of 4 feet at the 10 feet deep borings) will be submitted to a laboratory that has New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) certification. The laboratory will analyze or archive the samples as indicated in Table 2. We currently anticipate that laboratory analysis of the samples will be performed on an expedited turnaround with results available approximately one week following sample receipt by the laboratory.

Selected archived soil samples will be released for analysis, as needed, based on the analytical results for samples from overlying intervals or adjacent sampling locations. Analysis of the archived samples will be performed within allowable holding times.

In total, the proposed work will involve collecting the following samples:

- 174 soil samples for PCB analysis and 426 soil samples for PCB extraction followed by archive of the extract (for potential future PCB analysis, if needed).

- 14 soil samples for metals analysis and 34 soil samples for archive (for potential future metals analysis, if needed).

- 20 soil samples for PAH analysis. The PAH soil sampling locations are distributed uniformly throughout the western and northern portions of the site (i.e., outside the existing and former excavation limits). The PAH sampling locations are on an approximate 120-foot grid to provide data coverage for these areas of the site.

Quality assurance/quality control (QA/QC) samples (including blind duplicate, matrix spike, and matrix spike duplicate samples) will also be collected in support of the sampling activities at a frequency of one per 20 field soil samples.

Prior to moving to the next sampling location, all down-hole equipment will be decontaminated with Alconox and water and then rinsed with water. Following completion of the sampling activities, the boreholes will be backfilled with bentonite grout. Soil sample liners, remaining recovered soil, and decontamination water will be containerized with other wastes being generated as part of the remedial activities for proper offsite transportation and disposal.

III. SCHEDULE

Work identified for the completion of the delineation soil sampling activities described above and the estimated timeframe and milestone dates for completing these activities are as follows:

Activity	Duration	Milestone Completion Date
Planning		
• Submit Work Plan to NYSDEC	--	May 3, 2013
• NYSDEC Review/Comments on Work Plan	1 week	May 8, 2013
• Hold Conference Call with NYSDEC & Bayer	--	May 9, 2013
• Respond to NYSDEC Comments	<1 week	May 10, 2013
• NYSDEC Approval of Work Plan/Responses	--	May 10, 2013
Implementation		
• Survey Layout of Proposed Sampling Locations & Survey of Final Locations	2-3 weeks	May 13-31, 2013
• Drilling and Sampling Soil Borings	2-3 weeks	May 13-31, 2013
• Laboratory Analysis (Samples Designated for Analysis)	1 week turnaround	May 20, 2013 - June 7, 2013
• Laboratory Analysis (Samples Released from Archive)	1 week turnaround	June 14, 2013
Data Review, Reporting, & RD Modification		
• Data Review	Ongoing	--
• Data Reporting	Ongoing	May 27, 2013 - June 24, 2013
• Conference Call to Discuss Path Forward	--	June 26, 2013

Bayer anticipates starting to implement the proposed additional sampling activities on May 13, 2013, contingent upon NYSDEC approval of this work plan and driller availability. The proposed field activities are anticipated to take approximately two to three weeks to complete. As indicated above, laboratory analytical results will be available approximately one week following sampling. The full Analytical Services Protocol (ASP) Category B deliverables will be available approximately two to three weeks following sampling (and two to three weeks following the release of archived samples for analysis).

The results of the sampling activities and proposed follow-up actions will be presented in e-mail correspondence or a letter to the NYSDEC.

Please do not hesitate to contact Mr. David Schnelzer of Bayer at 412.777.7603, Mr. Ramon Simon of Bayer at 281.383.6149, or the undersigned at 315.671.9441 if you have any questions or require additional information.

Sincerely,

ARCADIS of New York, Inc.

John C. Brussel

John C. Brussel, PE
Principal Engineer

Copies:
Ms. Katy Murphy, New York State Department of Environmental Conservation (via e-mail)
Ms. Renata Ockerby, New State Department of Health (via e-mail)
Mr. David Schnelzer, Bayer MaterialScience LLC (via e-mail)
Mr. Ramon Simon, Bayer MaterialScience LLC (via e-mail)
Mr. Robert Foster, Bayer MaterialScience LLC (via email)
Chintan Amin, Esq., Bayer MaterialScience LLC (via email)
Mr. Andrew Enigk, ARCADIS (via e-mail)

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Tables

TABLE 1
POST-EXCAVATION VERIFICATION SOIL ANALYTICAL RESULTS FOR PCBs, PAHs, AND METALS (ppm)

FINAL REMEDIAL ACTION - OPERABLE UNIT 4
BAYER MATERIALSCIENCE LLC
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID:	Soil Cleanup Levels		V-RD-1	V-RD-2	V-RD-3	V-RD-5	V-RD-6	V-RD-7	V-RD-8	V-RD-9	V-RD-10	V-RD-11	V-RD-12	V-RD-13
Sample Depth(Feet):	Surface	Subsurface	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0.5 - 2	0.5 - 2	0.5 - 2	0.5 - 2	0.5 - 2
Date Collected:			04/09/13	04/09/13	04/09/13	04/09/13	04/09/13	04/09/13	04/09/13	04/05/13	04/05/13	04/05/13	04/05/13	04/05/13
Area:			Area 1A	Area 1A	Area 1A	Area 1A	Area 1A	Area 1A	Area 1A	Area 2A	Area 2A	Area 2A	Area 2A	Area 2A
PCBs														
Aroclor 1016	- -	- -	NA	NA	NA	NA	NA	NA	NA	<0.0260	<0.0280	<0.0280	<0.0270	<0.0280
Aroclor 1221	- -	- -	NA	NA	NA	NA	NA	NA	NA	<0.0260	<0.0280	<0.0280	<0.0270	<0.0280
Aroclor 1232	- -	- -	NA	NA	NA	NA	NA	NA	NA	<0.0260	<0.0280	<0.0280	<0.0270	<0.0280
Aroclor 1242	- -	- -	NA	NA	NA	NA	NA	NA	NA	<0.0260	<0.0280	<0.0280	<0.0270	<0.0280
Aroclor 1248	- -	- -	NA	NA	NA	NA	NA	NA	NA	<0.0260	<0.0280	<0.0280	0.470	0.620
Aroclor 1254	- -	- -	NA	NA	NA	NA	NA	NA	NA	<0.0260	<0.0280	<0.0280	<0.0270	<0.0280
Aroclor 1260	- -	- -	NA	NA	NA	NA	NA	NA	NA	<0.0260	<0.0280	<0.0280	<0.0270	<0.0280
Total PCBs	1	10	NA	NA	NA	NA	NA	NA	NA	<0.0260	<0.0280	<0.0280	0.470	0.620
PAHs														
Acenaphthene	500	- -	NA	NA	NA	NA	NA	NA	NA	<0.170	<0.180	<0.180	<0.180	<0.180
Acenaphthylene	500	- -	NA	NA	NA	NA	NA	NA	NA	<0.170	<0.180	<0.180	<0.180	<0.180
Anthracene	500	- -	NA	NA	NA	NA	NA	NA	NA	<0.170	<0.180	<0.180	<0.180	<0.180
Benzo(a)anthracene	5.6	- -	NA	NA	NA	NA	NA	NA	NA	<0.170	<0.180	<0.180	<0.180	<0.180
Benzo(a)pyrene	1	- -	NA	NA	NA	NA	NA	NA	NA	<0.170	<0.180	<0.180	<0.180	<0.180
Benzo(b)fluoranthene	5.6	- -	NA	NA	NA	NA	NA	NA	NA	<0.170	<0.180	<0.180	<0.180	0.160 J
Benzo(ghi)perylene	500	- -	NA	NA	NA	NA	NA	NA	NA	<0.170	<0.180	<0.180	<0.180	<0.180
Benzo(k)fluoranthene	56	- -	NA	NA	NA	NA	NA	NA	NA	<0.170	<0.180	<0.180	<0.180	<0.180
Chrysene	56	- -	NA	NA	NA	NA	NA	NA	NA	<0.170	<0.180	<0.180	<0.180	<0.180
Dibenzo(a,h)anthracene	0.56	- -	NA	NA	NA	NA	NA	NA	NA	<0.170	<0.180	<0.180	<0.180	<0.180
Fluoranthene	500	- -	NA	NA	NA	NA	NA	NA	NA	<0.170	<0.180	<0.180	<0.180	0.180 J
Fluorene	500	- -	NA	NA	NA	NA	NA	NA	NA	<0.170	<0.180	<0.180	<0.180	<0.180
Indeno(1,2,3-cd)pyrene	5.6	- -	NA	NA	NA	NA	NA	NA	NA	<0.170	<0.180	<0.180	<0.180	<0.180
Naphthalene	500	- -	NA	NA	NA	NA	NA	NA	NA	<0.170	<0.180	<0.180	<0.180	<0.180
Phenanthrene	500	- -	NA	NA	NA	NA	NA	NA	NA	<0.170	<0.180	<0.180	<0.180	0.160 J
Pyrene	500	- -	NA	NA	NA	NA	NA	NA	NA	<0.170	<0.180	<0.180	<0.180	<0.180
Total PAHs	- -	500	NA	NA	NA	NA	NA	NA	NA	<1.36	<1.44	<1.44	<1.44	1.67 J
Metals														
Arsenic	16	16	8.80	6.59	5.47	10.3	34.2	66.0	17.6	1.18	3.21	3.04	7.03	12.3
Cadmium	9.3	9.3	<0.160	<0.155	0.0900 J	<0.150	<0.160	<0.160	<0.150	<0.135	<0.140	<0.145	7.36	7.27

TABLE 1
POST-EXCAVATION VERIFICATION SOIL ANALYTICAL RESULTS FOR PCBs, PAHs, AND METALS (ppm)

FINAL REMEDIAL ACTION - OPERABLE UNIT 4
BAYER MATERIALSCIENCE LLC
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID:	Soil Cleanup Levels		V-RD-14	V-RD-15	V-RD-16	V-RD-17	V-RD-18	V-RD-19	V-RD-20	V-RD-21	V-RD-22	V-RD-24
Sample Depth(Feet):	Surface	Subsurface	0.5 - 2	0.5 - 2	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5
Date Collected:			04/05/13	04/09/13	04/05/13	04/05/13	04/05/13	04/05/13	04/05/13	04/09/13	04/09/13	04/09/13
Area:			Area 2A	Area 2A	Area 3A	Area 3A	Area 3A	Area 3A	Area 3A	Area 4A	Area 4A	Area 4A
PCBs												
Aroclor 1016	- -	- -	<0.0280	<0.0295 [<0.0295]	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	- -	- -	<0.0280	<0.0295 [<0.0295]	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	- -	- -	<0.0280	<0.0295 [<0.0295]	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	- -	- -	<0.0280	<0.0295 [<0.0295]	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	- -	- -	13.0 D	<0.0295 [<0.0295]	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	- -	- -	<0.0280	0.190 [0.150]	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	- -	- -	<0.0280	<0.0295 [<0.0295]	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	1	10	13.0	0.190 [0.150]	NA	NA	NA	NA	NA	NA	NA	NA
PAHs												
Acenaphthene	500	- -	<0.920	<0.190 [<0.190]	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	500	- -	<0.920	<0.190 [<0.190]	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	500	- -	<0.920	<0.190 [<0.190]	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	5.6	- -	<0.920	0.310 J [0.610]	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	1	- -	<0.920	0.320 J [0.660]	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	5.6	- -	<0.920	0.490 [0.920]	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(ghi)perylene	500	- -	<0.920	0.290 J [0.690]	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	56	- -	<0.920	0.160 J [0.350 J]	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	56	- -	<0.920	0.410 [0.810]	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	0.56	- -	<0.920	<0.190 [<0.190]	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	500	- -	0.750 J	0.790 [1.40]	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	500	- -	<0.920	<0.190 [<0.190]	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	5.6	- -	<0.920	0.300 J [0.840]	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	500	- -	<0.920	<0.190 [<0.190]	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	500	- -	<0.920	0.480 [0.750]	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	500	- -	<0.920	0.710 [1.40]	NA	NA	NA	NA	NA	NA	NA	NA
Total PAHs	- -	500	7.65 J	4.83 J [9.00 J]	NA	NA	NA	NA	NA	NA	NA	NA
Metals												
Arsenic	16	16	9.46	12.8 [14.2]	23.3	21.3	37.9	26.7	35.3	3.59	8.57	3.55
Cadmium	9.3	9.3	5.15	<0.165 [0.430]	<0.150	<0.160	<0.150	<0.160	0.390	0.760	0.910	<0.145

TABLE 1
POST-EXCAVATION VERIFICATION SOIL ANALYTICAL RESULTS FOR PCBs, PAHs, AND METALS (ppm)

FINAL REMEDIAL ACTION - OPERABLE UNIT 4
BAYER MATERIALSCIENCE LLC
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID:	Soil Cleanup Levels		V-RD-25	V-RD-26	V-RD-27	V-RD-28	V-RD-29	V-RD-30	V-RD-31	V-RD-32	V-RD-33	V-RD-34	V-RD-35
Sample Depth(Feet):	Surface	Subsurface	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	2 - 3	2 - 3	2 - 3	2 - 3	2 - 3
Date Collected:			04/09/13	04/09/13	04/09/13	04/09/13	04/09/13	04/09/13	04/18/13	04/18/13	04/18/13	04/18/13	04/18/13
Area:			Area 4A	Area 4A	Area 5A	Area 5A	Area 5A	Area 5A	Area 6A	Area 6A	Area 6A	Area 6A	Area 6A
PCBs													
Aroclor 1016	- -	- -	NA	NA	NA	NA	NA	NA	<0.0263	<0.0279	<0.0262	<0.0287	<0.0279
Aroclor 1221	- -	- -	NA	NA	NA	NA	NA	NA	<0.0263	<0.0279	<0.0262	<0.0287	<0.0279
Aroclor 1232	- -	- -	NA	NA	NA	NA	NA	NA	<0.0263	<0.0279	<0.0262	<0.0287	<0.0279
Aroclor 1242	- -	- -	NA	NA	NA	NA	NA	NA	<0.0263	<0.0279	<0.0262	<0.0287	<0.0279
Aroclor 1248	- -	- -	NA	NA	NA	NA	NA	NA	<0.0263	5.40 D	<0.0262	4.10 D	<0.0279
Aroclor 1254	- -	- -	NA	NA	NA	NA	NA	NA	<0.0263	<0.0279	<0.0262	<0.0287	<0.0279
Aroclor 1260	- -	- -	NA	NA	NA	NA	NA	NA	<0.0263	<0.0279	<0.0262	<0.0287	<0.0279
Total PCBs	1	10	NA	NA	NA	NA	NA	NA	<0.0263	5.40	<0.0262	4.10	<0.0279
PAHs													
Acenaphthene	500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	5.6	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	1	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	5.6	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(ghi)perylene	500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	56	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	56	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	0.56	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	5.6	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PAHs	- -	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals													
Arsenic	16	16	50.6	8.81	34.1	13.9	7.72	3.31	NA	NA	NA	NA	NA
Cadmium	9.3	9.3	0.300 J	2.75	<0.165	<0.165	<0.145	<0.130	NA	NA	NA	NA	NA

TABLE 1
POST-EXCAVATION VERIFICATION SOIL ANALYTICAL RESULTS FOR PCBs, PAHs, AND METALS (ppm)

FINAL REMEDIAL ACTION - OPERABLE UNIT 4
BAYER MATERIALSCIENCE LLC
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID:	Soil Cleanup Levels		V-RD-36	V-RD-37	V-RD-38	V-RD-42	V-RD-43	V-RD-44	V-RD-45	V-RD-46	V-RD-47	V-RD-48	V-RD-49	V-RD-50
Sample Depth(Feet):	Surface	Subsurface	2 - 3	2 - 3	2 - 3	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	2 - 2.5	2 - 2.5	2 - 2.5	2 - 2.5	4 - 4.5
Date Collected:			04/18/13	04/18/13	04/18/13	04/18/13	04/18/13	04/18/13	04/18/13	04/09/13	04/09/13	04/16/13	04/09/13	04/16/13
Area:			Area 6A	Area 6A	Area 6A	Area 7A	Area 7A	Area 7A	Area 7A	Area 8A	Area 8A	Area 9A	Area 9A	Area 9A
PCBs														
Aroclor 1016	- -	- -	<0.0259	<0.0316	<0.0259	NA	NA	NA	NA	<0.0260	<0.0265	<0.0285	<0.0320	<0.0258
Aroclor 1221	- -	- -	<0.0259	<0.0316	<0.0259	NA	NA	NA	NA	<0.0260	<0.0265	<0.0285	<0.0320	<0.0258
Aroclor 1232	- -	- -	<0.0259	<0.0316	<0.0259	NA	NA	NA	NA	<0.0260	<0.0265	<0.0285	<0.0320	<0.0258
Aroclor 1242	- -	- -	<0.0259	<0.0316	<0.0259	NA	NA	NA	NA	<0.0260	<0.0265	<0.0285	<0.0320	<0.0258
Aroclor 1248	- -	- -	<0.0259	<0.0316	0.430	NA	NA	NA	NA	<0.0260	<0.0265	<0.0285	<0.0320	0.330
Aroclor 1254	- -	- -	<0.0259	<0.0316	<0.0259	NA	NA	NA	NA	<0.0260	0.120	<0.0285	<0.0320	<0.0258
Aroclor 1260	- -	- -	<0.0259	<0.0316	<0.0259	NA	NA	NA	NA	<0.0260	<0.0265	<0.0285	<0.0320	<0.0258
Total PCBs	1	10	<0.0259	<0.0316	0.430	NA	NA	NA	NA	<0.0260	0.120	<0.0285	<0.0320	0.330
PAHs														
Acenaphthene	500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	5.6	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	1	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	5.6	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(ghi)perylene	500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	56	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	56	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	0.56	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	5.6	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PAHs	- -	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals														
Arsenic	16	16	NA	NA	NA	4.67	4.02	3.12	10.1	NA	NA	NA	NA	NA
Cadmium	9.3	9.3	NA	NA	NA	1.67	<0.135	<0.140	<0.150	NA	NA	NA	NA	NA

TABLE 1
POST-EXCAVATION VERIFICATION SOIL ANALYTICAL RESULTS FOR PCBs, PAHs, AND METALS (ppm)

FINAL REMEDIAL ACTION - OPERABLE UNIT 4
BAYER MATERIALSCIENCE LLC
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID:	Soil Cleanup Levels		V-RD-55	V-RD-57	V-RD-58	V-RD-148	V-RD-149	V-RD-150	V-RD-151	V-RD-152	V-RD-153	V-RD-154	V-RD-155
Sample Depth(Feet):	Surface	Subsurface	2.5 - 3.5	1 - 2	1 - 2	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5
Date Collected:			04/18/13	04/18/13	04/18/13	03/18/13	03/18/13	03/18/13	03/20/13	03/20/13	03/20/13	03/20/13	03/20/13
Area:			Area 11A	Area 12A	Area 12A	Area 1B	Area 1B	Area 1B	Area 3B	Area 3B	Area 3B	Area 3B	Area 3B
PCBs													
Aroclor 1016	- -	- -	<0.0266	<0.0282	<0.0257	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	- -	- -	<0.0266	<0.0282	<0.0257	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	- -	- -	<0.0266	<0.0282	<0.0257	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	- -	- -	<0.0266	<0.0282	<0.0257	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	- -	- -	0.550	0.120 P	1.50	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	- -	- -	<0.0266	<0.0282	<0.0257	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	- -	- -	<0.0266	<0.0282	<0.0257	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	1	10	0.550	0.120	1.50	NA	NA	NA	NA	NA	NA	NA	NA
PAHs													
Acenaphthene	500	- -	NA	NA	NA	<0.205	<0.900	<0.900	<0.180 [<0.185]	<0.190	<0.950	<0.190	<0.190
Acenaphthylene	500	- -	NA	NA	NA	<0.205	<0.900	<0.900	<0.180 [<0.185]	<0.190	<0.950	<0.190	<0.190
Anthracene	500	- -	NA	NA	NA	0.280 J	1.30 J	1.30 J	<0.180 [<0.185]	<0.190	1.00 J	0.160 J	<0.190
Benzo(a)anthracene	5.6	- -	NA	NA	NA	0.870	6.90	6.20	<0.180 [<0.185]	0.270 J	4.50	1.30	1.70
Benzo(a)pyrene	1	- -	NA	NA	NA	1.20	8.50	7.50	<0.180 [<0.185]	0.340 J	5.40	1.40	1.60
Benzo(b)fluoranthene	5.6	- -	NA	NA	NA	1.60	9.20	7.70	<0.180 [0.180 J]	0.450	5.80	1.90	2.30
Benzo(ghi)perylene	500	- -	NA	NA	NA	0.670	7.70	7.10	<0.180 [0.160 J]	0.410	5.10	1.30	1.40
Benzo(k)fluoranthene	56	- -	NA	NA	NA	0.730	3.20	3.10	<0.180 [<0.185]	<0.190	2.60	0.720	0.640
Chrysene	56	- -	NA	NA	NA	1.00	7.30	6.70	<0.180 [0.170 J]	0.420	5.60	2.10	2.00
Dibenzo(a,h)anthracene	0.56	- -	NA	NA	NA	<0.205	1.50 J	1.40 J	<0.180 [<0.185]	<0.190	1.40 J	0.280 J	0.280 J
Fluoranthene	500	- -	NA	NA	NA	1.70	8.90	7.40	0.160 J [0.240 J]	0.630	7.30	4.50 D	3.00
Fluorene	500	- -	NA	NA	NA	<0.205	<0.900	<0.900	<0.180 [<0.185]	<0.190	<0.950	<0.190	<0.190
Indeno(1,2,3-cd)pyrene	5.6	- -	NA	NA	NA	0.440	12.6	12.3	0.170 J [0.300 J]	0.650	9.80	2.20	2.40
Naphthalene	500	- -	NA	NA	NA	<0.205	<0.900	<0.900	<0.180 [<0.185]	<0.190	<0.950	<0.190	<0.190
Phenanthrene	500	- -	NA	NA	NA	0.540	3.50	3.60	<0.180 [0.150 J]	0.360 J	4.00	2.20	1.80
Pyrene	500	- -	NA	NA	NA	1.10	7.70	7.90	0.170 J [0.170 J]	0.700	6.60	2.70	2.80
Total PAHs	- -	500	NA	NA	NA	10.6 J	80.1 J	74.0 J	1.67 J [2.20 J]	4.90 J	61.0 J	21.1 J	20.4 J
Metals													
Arsenic	16	16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	9.3	9.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 1
POST-EXCAVATION VERIFICATION SOIL ANALYTICAL RESULTS FOR PCBs, PAHs, AND METALS (ppm)

FINAL REMEDIAL ACTION - OPERABLE UNIT 4
BAYER MATERIALSCIENCE LLC
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID:	Soil Cleanup Levels		V-RD-156	V-RD-157	V-RD-158	V-RD-159	V-RD-160	V-RD-167	V-RD-168	V-RD-169	V-RD-179
Sample Depth(Feet):	Surface	Subsurface	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5
Date Collected:			03/20/13	03/19/13	03/19/13	03/19/13	03/19/13	03/19/13	03/19/13	03/19/13	03/25/13
Area:			Area 3B	Area 4B	Area 4B	Area 4B	Area 4B	Area 2B	Area 2B	Area 2B	Area 7B
PCBs											
Aroclor 1016	- -	- -	NA	NA	NA	NA	NA	<0.0105	<0.00950	<0.0100	NA
Aroclor 1221	- -	- -	NA	NA	NA	NA	NA	<0.0105	<0.00950	<0.0100	NA
Aroclor 1232	- -	- -	NA	NA	NA	NA	NA	<0.0105	<0.00950	<0.0100	NA
Aroclor 1242	- -	- -	NA	NA	NA	NA	NA	<0.0105	<0.00950	<0.0100	NA
Aroclor 1248	- -	- -	NA	NA	NA	NA	NA	<0.0105	<0.00950	<0.0100	NA
Aroclor 1254	- -	- -	NA	NA	NA	NA	NA	<0.0105	<0.00950	<0.0100	NA
Aroclor 1260	- -	- -	NA	NA	NA	NA	NA	<0.0105	<0.00950	<0.0100	NA
Total PCBs	1	10	NA	NA	NA	NA	NA	<0.0105	<0.00950	<0.0100	NA
PAHs											
Acenaphthene	500	- -	0.830	<0.190	<0.950	<0.175	<0.190	NA	NA	NA	0.160 J
Acenaphthylene	500	- -	<0.185	<0.190	<0.950	<0.175	<0.190	NA	NA	NA	<0.180
Anthracene	500	- -	1.10	<0.190	<0.950	<0.175	<0.190	NA	NA	NA	0.240 J
Benzo(a)anthracene	5.6	- -	4.80 D	<0.190	1.40 J	<0.175	<0.190	NA	NA	NA	1.00
Benzo(a)pyrene	1	- -	4.70 D	<0.190	1.30 J	<0.175	<0.190	NA	NA	NA	1.10
Benzo(b)fluoranthene	5.6	- -	5.60 D	<0.190	1.40 J	<0.175	<0.190	NA	NA	NA	1.40
Benzo(ghi)perylene	500	- -	4.00 D	<0.190	1.20 J	<0.175	<0.190	NA	NA	NA	0.990
Benzo(k)fluoranthene	56	- -	1.70	<0.190	<0.950	<0.175	<0.190	NA	NA	NA	0.330 J
Chrysene	56	- -	5.10 D	<0.190	1.30 J	<0.175	<0.190	NA	NA	NA	1.00
Dibenzo(a,h)anthracene	0.56	- -	0.670	<0.190	<0.950	<0.175	<0.190	NA	NA	NA	0.200 J
Fluoranthene	500	- -	9.20 D	<0.190	1.90	<0.175	<0.190	NA	NA	NA	1.70
Fluorene	500	- -	0.440	<0.190	<0.950	<0.175	<0.190	NA	NA	NA	<0.180
Indeno(1,2,3-cd)pyrene	5.6	- -	6.10 D	<0.190	2.00	<0.175	<0.190	NA	NA	NA	1.50
Naphthalene	500	- -	0.270 J	<0.190	<0.950	<0.175	<0.190	NA	NA	NA	<0.180
Phenanthrene	500	- -	6.00 D	<0.190	0.980 J	<0.175	<0.190	NA	NA	NA	0.980
Pyrene	500	- -	8.60 D	<0.190	2.30	<0.175	<0.190	NA	NA	NA	1.40
Total PAHs	- -	500	59.2 J	<1.52	17.1 J	<1.40	<1.52	NA	NA	NA	12.3 J
Metals											
Arsenic	16	16	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	9.3	9.3	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 1
POST-EXCAVATION VERIFICATION SOIL ANALYTICAL RESULTS FOR PCBs, PAHs, AND METALS (ppm)

FINAL REMEDIAL ACTION - OPERABLE UNIT 4
BAYER MATERIALSCIENCE LLC
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID:	Soil Cleanup Levels		V-RD-180	V-RD-181	V-RD-182	V-RD-183	V-RD-184	V-RD-185	V-RD-186	V-RD-187	V-RD-188	V-RD-189	V-RD-190
Sample Depth(Feet):	Surface	Subsurface	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5
Date Collected:			03/25/13	03/25/13	03/25/13	03/25/13	03/25/13	03/22/13	03/22/13	03/22/13	03/22/13	03/25/13	03/25/13
Area:			Area 7B	Area 7B	Area 7B	Area 7B	Area 7B	Area 11B	Area 11B	Area 11B	Area 11B	Area 10B	Area 10B
PCBs													
Aroclor 1016	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	1	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PAHs													
Acenaphthene	500	- -	0.200 J	0.390	<0.180	<1.40	<4.55	<0.900	5.10 J	<0.900	<0.950	0.570	0.170 J
Acenaphthylene	500	- -	<0.170	<0.180	<0.180	<1.40	<4.55	<0.900	<4.60	<0.900	<0.950	<0.180	<0.180
Anthracene	500	- -	0.270 J	0.550	<0.180	<1.40	<4.55	1.00 J	8.40 J	1.20 J	1.30 J	0.990	0.320 J
Benzo(a)anthracene	5.6	- -	0.860	2.00	<0.180	<1.40	<4.55	3.70	19.4	5.00	7.40	3.80 D	1.40
Benzo(a)pyrene	1	- -	0.860	2.00	<0.180	<1.40	<4.55	3.30	18.7	5.70	7.30	4.30 D	1.70
Benzo(b)fluoranthene	5.6	- -	1.10	2.50	<0.180	<1.40	<4.55	4.40	25.1	5.40	9.80	5.10 D	1.80
Benzo(ghi)perylene	500	- -	0.720	1.90	<0.180	<1.40	<4.55	1.80	10.8	2.80	4.30	4.20 D	1.70
Benzo(k)fluoranthene	56	- -	0.320 J	0.810	<0.180	<1.40	<4.55	2.00	9.70	1.90	3.20	1.70	0.760
Chrysene	56	- -	0.890	2.30	<0.180	<1.40	<4.55	3.90	22.0	5.60	7.70	4.10 D	1.60
Dibenzo(a,h)anthracene	0.56	- -	0.150 J	0.410	<0.180	<1.40	<4.55	<0.900	<4.60	<0.900	0.920 J	0.790	0.350 J
Fluoranthene	500	- -	1.50	3.00 D	0.150 J	<1.40	<4.55	4.70	42.4	9.60	12.0 D	5.90 D	2.30
Fluorene	500	- -	<0.170	0.220 J	<0.180	<1.40	<4.55	<0.900	3.90 J	<0.900	<0.950	0.350 J	<0.180
Indeno(1,2,3-cd)pyrene	5.6	- -	0.810	2.80	<0.180	<1.40	<4.55	1.90	11.1	3.20	4.10	5.30 D	2.50
Naphthalene	500	- -	<0.170	<0.180	<0.180	<1.40	<4.55	<0.900	<4.60	<0.900	<0.950	0.150 J	<0.180
Phenanthrene	500	- -	1.10	2.30	<0.180	<1.40	<4.55	3.50	29.6	4.00	3.50	4.10 D	1.20
Pyrene	500	- -	1.40	2.80	<0.180	<1.40	<4.55	6.10	35.5	8.90	11.5 D	7.30 D	2.40
Total PAHs	- -	500	10.4 J	24.2 J	1.50 J	<11.2	<36.4	38.6 J	249 J	55.6 J	74.9 J	48.7 J	18.5 J
Metals													
Arsenic	16	16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	9.3	9.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 1
POST-EXCAVATION VERIFICATION SOIL ANALYTICAL RESULTS FOR PCBs, PAHs, AND METALS (ppm)

FINAL REMEDIAL ACTION - OPERABLE UNIT 4
BAYER MATERIALSCIENCE LLC
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID:	Soil Cleanup Levels		V-RD-191	V-RD-192	V-RD-193	V-RD-194	V-RD-205	V-RD-206	V-RD-207	V-RD-208	V-RD-209	V-RD-210
Sample Depth(Feet):	Surface	Subsurface	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5
Date Collected:			03/22/13	03/22/13	03/22/13	03/25/13	03/22/13	03/22/13	03/22/13	04/01/13	04/01/13	04/02/13
Area:			Area 10B	Area 10B	Area 10B	Area 10B	Area 8B	Area 8B	Area 8B	Area 12B	Area 12B	Area 14B
PCBs												
Aroclor 1016	- -	- -	NA	NA	NA	NA	<0.0100 [<0.0100]	<0.00950	<0.00950	<0.0275	<0.0280	<0.0280
Aroclor 1221	- -	- -	NA	NA	NA	NA	<0.0100 [<0.0100]	<0.00950	<0.00950	<0.0275	<0.0280	<0.0280
Aroclor 1232	- -	- -	NA	NA	NA	NA	<0.0100 [<0.0100]	<0.00950	<0.00950	<0.0275	<0.0280	<0.0280
Aroclor 1242	- -	- -	NA	NA	NA	NA	<0.0100 [<0.0100]	<0.00950	<0.00950	<0.0275	<0.0280	<0.0280
Aroclor 1248	- -	- -	NA	NA	NA	NA	0.660 D [0.520 D]	3.50 D	3.60 D	4.90 D	1.70 D	<0.0280
Aroclor 1254	- -	- -	NA	NA	NA	NA	<0.0100 [<0.0100]	<0.00950	<0.00950	<0.0275	<0.0280	<0.0280
Aroclor 1260	- -	- -	NA	NA	NA	NA	<0.0100 [<0.0100]	<0.00950	<0.00950	<0.0275	<0.0280	<0.0280
Total PCBs	1	10	NA	NA	NA	NA	0.660 [0.520]	3.50	3.60	4.90	1.70	<0.0280
PAHs												
Acenaphthene	500	- -	<0.180	<0.175	1.70 J	0.150 J	NA	NA	NA	NA	NA	NA
Acenaphthylene	500	- -	<0.180	<0.175	<0.900	<0.175	NA	NA	NA	NA	NA	NA
Anthracene	500	- -	<0.180	0.150 J	2.50	0.270 J	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	5.6	- -	<0.180	0.630	6.90	1.30	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	1	- -	<0.180	0.690	7.10	1.60	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	5.6	- -	<0.180	1.20	9.70	1.80	NA	NA	NA	NA	NA	NA
Benzo(ghi)perylene	500	- -	<0.180	0.710	6.80	1.50	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	56	- -	<0.180	0.700	4.00	0.720	NA	NA	NA	NA	NA	NA
Chrysene	56	- -	<0.180	1.40	7.70	1.50	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	0.56	- -	<0.180	0.140 J	1.40 J	0.310 J	NA	NA	NA	NA	NA	NA
Fluoranthene	500	- -	<0.180	1.10	10.8	2.30	NA	NA	NA	NA	NA	NA
Fluorene	500	- -	<0.180	<0.175	1.20 J	<0.175	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	5.6	- -	<0.180	0.560	6.30	2.10	NA	NA	NA	NA	NA	NA
Naphthalene	500	- -	<0.180	<0.175	<0.900	<0.175	NA	NA	NA	NA	NA	NA
Phenanthrene	500	- -	<0.180	0.480	9.40	1.10	NA	NA	NA	NA	NA	NA
Pyrene	500	- -	<0.180	1.20	13.1	1.90	NA	NA	NA	NA	NA	NA
Total PAHs	- -	500	<1.44	9.31 J	89.5 J	16.8 J	NA	NA	NA	NA	NA	NA
Metals												
Arsenic	16	16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	9.3	9.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 1
POST-EXCAVATION VERIFICATION SOIL ANALYTICAL RESULTS FOR PCBs, PAHs, AND METALS (ppm)

FINAL REMEDIAL ACTION - OPERABLE UNIT 4
BAYER MATERIALSCIENCE LLC
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID:	Soil Cleanup Levels		V-RD-211	V-RD-212	V-RD-213	V-RD-214	V-RD-215	V-RD-216	V-RD-217	V-RD-218	V-RD-221	V-RD-222	V-RD-224
Sample Depth(Feet):	Surface	Subsurface	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5
Date Collected:			04/01/13	04/01/13	04/02/13	04/01/13	04/01/13	04/01/13	04/03/13	04/03/13	04/03/13	04/02/13	03/28/13
Area:			Area 13B	Area 13B	Area 13B	Area 13B	Area 13B	Area 13B	Area 14B	Area 14B	Area 14B	Area 16B	Area 16B
PCBs													
Aroclor 1016	- -	- -	<0.0265	<0.0265	<0.0285	<0.0270	<0.0300	<0.0300	<0.00900	<0.00900	<0.00850	<0.0290	<0.0100
Aroclor 1221	- -	- -	<0.0265	<0.0265	<0.0285	<0.0270	<0.0300	<0.0300	<0.00900	<0.00900	<0.00850	<0.0290	<0.0100
Aroclor 1232	- -	- -	<0.0265	<0.0265	<0.0285	<0.0270	<0.0300	<0.0300	<0.00900	<0.00900	<0.00850	<0.0290	<0.0100
Aroclor 1242	- -	- -	<0.0265	<0.0265	<0.0285	<0.0270	<0.0300	<0.0300	<0.00900	<0.00900	<0.00850	<0.0290	<0.0100
Aroclor 1248	- -	- -	<0.0265	3.50 D	15.0 D	1.90 D	7.70 D	12.0 D	2.80 D	0.0340	4.20 D	2.30 DP	0.190
Aroclor 1254	- -	- -	<0.0265	<0.0265	<0.0285	<0.0270	<0.0300	<0.0300	<0.00900	<0.00900	<0.00850	<0.0290	<0.0100
Aroclor 1260	- -	- -	<0.0265	<0.0265	<0.0285	<0.0270	<0.0300	<0.0300	<0.00900	<0.00900	<0.00850	<0.0290	<0.0100
Total PCBs	1	10	<0.0265	3.50	15.0	1.90	7.70	12.0	2.80	0.0340	4.20	2.30	0.190
PAHs													
Acenaphthene	500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	5.6	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	1	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	5.6	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(ghi)perylene	500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	56	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	56	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	0.56	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	5.6	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PAHs	- -	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals													
Arsenic	16	16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	9.3	9.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 1
POST-EXCAVATION VERIFICATION SOIL ANALYTICAL RESULTS FOR PCBs, PAHs, AND METALS (ppm)

FINAL REMEDIAL ACTION - OPERABLE UNIT 4
BAYER MATERIALSCIENCE LLC
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID:	Soil Cleanup Levels		V-RD-225	V-RD-226	V-RD-228	V-RD-229	V-RD-230	V-RD-231	V-RD-232	V-RD-233	V-RD-234	V-RD-235	V-RD-236
Sample Depth(Feet):			0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5
Date Collected:	Surface	Subsurface	03/28/13	03/27/13	03/27/13	03/27/13	03/27/13	03/27/13	03/28/13	03/27/13	03/27/13	03/27/13	03/27/13
Area:			Area 16B	Area 16B	Area 16B	Area 16B	Area 16B	Area 16B	Area 16B	Area 16B	Area 16B	Area 16B	Area 16B
PCBs													
Aroclor 1016	- -	- -	<0.00950	<0.0105	<0.00950	<0.0105	<0.0105	<0.00900	<0.00900	<0.00950	<0.0100	<0.00950	<0.00950
Aroclor 1221	- -	- -	<0.00950	<0.0105	<0.00950	<0.0105	<0.0105	<0.00900	<0.00900	<0.00950	<0.0100	<0.00950	<0.00950
Aroclor 1232	- -	- -	<0.00950	<0.0105	<0.00950	<0.0105	<0.0105	<0.00900	<0.00900	<0.00950	<0.0100	<0.00950	<0.00950
Aroclor 1242	- -	- -	<0.00950	<0.0105	<0.00950	<0.0105	<0.0105	<0.00900	<0.00900	<0.00950	<0.0100	<0.00950	<0.00950
Aroclor 1248	- -	- -	1.90 D	0.220	1.80 D	1.30 DP	12.0 D	0.0490	9.70 D	1.90 D	100 D	12.0 D	1.90 D
Aroclor 1254	- -	- -	<0.00950	<0.0105	<0.00950	<0.0105	<0.0105	<0.00900	<0.00900	<0.00950	<0.0100	<0.00950	<0.00950
Aroclor 1260	- -	- -	<0.00950	<0.0105	<0.00950	<0.0105	<0.0105	<0.00900	<0.00900	<0.00950	<0.0100	<0.00950	<0.00950
Total PCBs	1	10	1.90	0.220	1.80	1.30	12.0	0.0490	9.70	1.90	100	12.0	1.90
PAHs													
Acenaphthene	500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	5.6	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	1	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	5.6	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(ghi)perylene	500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	56	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	56	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	0.56	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	5.6	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PAHs	- -	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals													
Arsenic	16	16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	9.3	9.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 1
POST-EXCAVATION VERIFICATION SOIL ANALYTICAL RESULTS FOR PCBs, PAHs, AND METALS (ppm)

FINAL REMEDIAL ACTION - OPERABLE UNIT 4
BAYER MATERIALSCIENCE LLC
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID:	Soil Cleanup Levels		V-RD-244	V-RD-245	V-RD-246	V-RD-247	V-RD-248	V-RD-249	V-RD-250	V-RD-251	V-RD-252	V-RD-253	V-RD-254
Sample Depth(Feet):			0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5
Date Collected:	Surface	Subsurface	04/03/13	04/03/13	04/03/13	04/03/13	04/03/13	04/03/13	04/03/13	04/03/13	04/03/13	04/03/13	04/04/13
Area:			Area 18B	Area 18B	Area 19B	Area 19B	Area 19B	Area 20B	Area 20B	Area 20B	Area 20B	Area 21B	Area 21B
PCBs													
Aroclor 1016	- -	- -	<0.00950	<0.00950	<0.0100	<0.0100	<0.0105	<0.00900	<0.00900	<0.0100	<0.00900	<0.00900	<0.0330
Aroclor 1221	- -	- -	<0.00950	<0.00950	<0.0100	<0.0100	<0.0105	<0.00900	<0.00900	<0.0100	<0.00900	<0.00900	<0.0330
Aroclor 1232	- -	- -	<0.00950	<0.00950	<0.0100	<0.0100	<0.0105	<0.00900	<0.00900	<0.0100	<0.00900	<0.00900	<0.0330
Aroclor 1242	- -	- -	<0.00950	<0.00950	<0.0100	<0.0100	<0.0105	<0.00900	<0.00900	<0.0100	<0.00900	<0.00900	<0.0330
Aroclor 1248	- -	- -	0.160	0.890 D	0.280	5.60 D	20.0 D	0.0470 P	<0.00900	<0.0100	0.550 D	<0.00900	0.550
Aroclor 1254	- -	- -	<0.00950	<0.00950	<0.0100	<0.0100	<0.0105	<0.00900	<0.00900	<0.0100	<0.00900	<0.00900	<0.0330
Aroclor 1260	- -	- -	<0.00950	<0.00950	<0.0100	<0.0100	<0.0105	<0.00900	<0.00900	<0.0100	<0.00900	<0.00900	<0.0330
Total PCBs	1	10	0.160	0.890	0.280	5.60	20.0	0.0470	<0.00900	<0.0100	0.550	<0.00900	0.550
PAHs													
Acenaphthene	500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	5.6	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	1	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	5.6	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(ghi)perylene	500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	56	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	56	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	0.56	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	5.6	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PAHs	- -	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals													
Arsenic	16	16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	9.3	9.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 1
POST-EXCAVATION VERIFICATION SOIL ANALYTICAL RESULTS FOR PCBs, PAHs, AND METALS (ppm)

FINAL REMEDIAL ACTION - OPERABLE UNIT 4
BAYER MATERIALSCIENCE LLC
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID:	Soil Cleanup Levels		V-RD-255	V-RD-256	V-RD-257	V-RD-258	V-RD-259	V-RD-260	V-RD-261	V-RD-262	V-RD-267
Sample Depth(Feet):	Surface	Subsurface	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5
Date Collected:			04/03/13	04/03/13	04/03/13	04/03/13	04/04/13	04/03/13	04/03/13	04/03/13	04/04/13
Area:			Area 21B	Area 21B	Area 21B	Area 21B	Area 21B	Area 22B	Area 22B	Area 22B	Area 24B
PCBs											
Aroclor 1016	- -	- -	<0.0100	<0.00950 [<0.00950]	<0.0100	<0.00950	<0.0275	<0.00900	<0.00950	<0.00950	<0.0265
Aroclor 1221	- -	- -	<0.0100	<0.00950 [<0.00950]	<0.0100	<0.00950	<0.0275	<0.00900	<0.00950	<0.00950	<0.0265
Aroclor 1232	- -	- -	<0.0100	<0.00950 [<0.00950]	<0.0100	<0.00950	<0.0275	<0.00900	<0.00950	<0.00950	<0.0265
Aroclor 1242	- -	- -	<0.0100	<0.00950 [<0.00950]	<0.0100	<0.00950	<0.0275	<0.00900	<0.00950	<0.00950	<0.0265
Aroclor 1248	- -	- -	1.20 D	0.0810 [0.110]	0.0220	0.140	1.30	0.350 P	0.100	0.250	0.320
Aroclor 1254	- -	- -	<0.0100	<0.00950 [<0.00950]	<0.0100	<0.00950	<0.0275	<0.00900	<0.00950	<0.00950	<0.0265
Aroclor 1260	- -	- -	<0.0100	<0.00950 [<0.00950]	<0.0100	<0.00950	<0.0275	<0.00900	<0.00950	<0.00950	<0.0265
Total PCBs	1	10	1.20	0.0810 [0.110]	0.0220	0.140	1.30	0.350	0.100	0.250	0.320
PAHs											
Acenaphthene	500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	5.6	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	1	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	5.6	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(ghi)perylene	500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	56	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	56	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	0.56	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	5.6	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	500	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PAHs	- -	500	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals											
Arsenic	16	16	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	9.3	9.3	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 1
POST-EXCAVATION VERIFICATION SOIL ANALYTICAL RESULTS FOR PCBs, PAHs, AND METALS (ppm)

FINAL REMEDIAL ACTION - OPERABLE UNIT 4
BAYER MATERIALSCIENCE LLC
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID:	Soil Cleanup Levels		V-RD-268	V-RD-269	V-RD-270
Sample Depth(Feet):	Surface	Subsurface	0 - 0.5	0 - 0.5	0 - 0.5
Date Collected:			04/04/13	04/04/13	04/04/13
Area:			Area 24B	Area 24B	Area 24B
PCBs					
Aroclor 1016	- -	- -	<0.0270	<0.0270	<0.0290
Aroclor 1221	- -	- -	<0.0270	<0.0270	<0.0290
Aroclor 1232	- -	- -	<0.0270	<0.0270	<0.0290
Aroclor 1242	- -	- -	<0.0270	<0.0270	<0.0290
Aroclor 1248	- -	- -	0.240	0.800	3.40 D
Aroclor 1254	- -	- -	<0.0270	<0.0270	<0.0290
Aroclor 1260	- -	- -	<0.0270	<0.0270	<0.0290
Total PCBs	1	10	0.240	0.800	3.40
PAHs					
Acenaphthene	500	- -	NA	NA	NA
Acenaphthylene	500	- -	NA	NA	NA
Anthracene	500	- -	NA	NA	NA
Benzo(a)anthracene	5.6	- -	NA	NA	NA
Benzo(a)pyrene	1	- -	NA	NA	NA
Benzo(b)fluoranthene	5.6	- -	NA	NA	NA
Benzo(ghi)perylene	500	- -	NA	NA	NA
Benzo(k)fluoranthene	56	- -	NA	NA	NA
Chrysene	56	- -	NA	NA	NA
Dibenzo(a,h)anthracene	0.56	- -	NA	NA	NA
Fluoranthene	500	- -	NA	NA	NA
Fluorene	500	- -	NA	NA	NA
Indeno(1,2,3-cd)pyrene	5.6	- -	NA	NA	NA
Naphthalene	500	- -	NA	NA	NA
Phenanthrene	500	- -	NA	NA	NA
Pyrene	500	- -	NA	NA	NA
Total PAHs	- -	500	NA	NA	NA
Metals					
Arsenic	16	16	NA	NA	NA
Cadmium	9.3	9.3	NA	NA	NA

TABLE 1
POST-EXCAVATION VERIFICATION SOIL ANALYTICAL RESULTS FOR PCBs, PAHs, AND METALS (ppm)

FINAL REMEDIAL ACTION - OPERABLE UNIT 4
BAYER MATERIALSCIENCE LLC
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Notes:

1. Samples were collected by Preferred Environmental Services on the dates indicated.
2. PCBs = Polychlorinated Biphenyls.
3. PAHs = Polycyclic Aromatic Hydrocarbons.
4. NA = Not Applicable.
5. Samples were analyzed by Chemtech located in Mountainside, New Jersey for:
   - PAHs using USEPA SW-846 Method 8270.
   - Metals using USEPA SW-846 Methods 6010.
   - PCBs using USEPA SW-846 Method 8082.
6. All concentrations reported in dry weight parts per million (ppm), which is equivalent to milligrams per kilogram (mg/kg).
7. Data qualifiers are defined as follows:
   D - Concentration is based on a diluted sample analysis.
   J - Indicates that the associated numerical value is an estimated concentration.
   P - Indicates target analyte is >25% difference for detected concentrations between the two gas chromatogram columns and the lower of the two values is reported.
   < - The compound was not detected above the reported detection limit.
8. Soil cleanup levels are from the New York State Department of Environmental Conservation- (NYSDEC-) approved Remedial Design (ARCADIS, February 2013) and consist of the following:
   - Surface soil cleanup levels: Commercial use soil cleanup objectives from Title 6 of the Official Compilation of Codes, Rules and Regulations of the State of New York (6 NYCRR) Part 375-6.8(b).
   - Subsurface soil cleanup levels: Cleanup levels for PCBs and total PAHs from the NYSDEC document titled "CP-51 / Soil Cleanup Guidance", dated October 21, 2010.
9. Shading indicates that the result exceeds the project soil cleanup levels.
10. - - = No cleanup level applicable.
11. Total PAHs were calculated as the sum of the following, which is consistent with the NYSDEC list from 6 NYCRR Part 375-6.8(b):
    Acenaphthene
    Acenaphthylene
    Anthracene
    Benzo(a)anthracene
    Benzo(a)pyrene
    Benzo(b)fluoranthene
    Benzo(g,h,i)perylene
    Benzo(k)fluoranthene
    Chrysene
    Dibenzo(a,h)anthracene
    Fluoranthene
    Fluorene
    Indeno(1,2,3-cd)pyrene
    Naphthalene
    Phenanthrene
    Pyrene

TABLE 2
SUMMARY OF PROPOSED 2013 SOIL SAMPLING LOCATIONS AND LABORATORY ANALYSES

FINAL REMEDIAL ACTION - OPERABLE UNIT 4
BAYER MATERIALSCIENCE LLC
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Proposed Sample ID	Proposed Boring Depth (feet bgs)	Proposed Sample Depth (feet bgs)	Proposed Laboratory Analyses		
			PCBs	PAHs	Arsenic
SB-1	10.0	0-0.2	X		Archive
		0.5-2	Archive		Archive
		2-4	Archive		Archive
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-2	10.0	0-0.2	X		
		0.5-2	X		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-3	10.0	0-0.2	X	X	Archive
		0.5-2	Archive		Archive
		2-4	Archive		Archive
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-4	10.0	0-0.2	X		
		0.5-2	X		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-5	10.0	0-0.2	X	X	
		0.5-2	Archive		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-6	10.0	0-0.2	X		
		0.5-2	Archive		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-7	10.0	0-0.2	X		
		0.5-2	Archive		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-8	10.0	0-0.2	X		
		0.5-2	Archive		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-9	10.0	0-0.2	X		
		0.5-2	Archive		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-10	10.0	0-0.2	X		
		0.5-2	Archive		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-11	10.0	0-0.2	X		Archive
		0.5-2	X		Archive
		2-4	Archive		Archive
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		

TABLE 2
SUMMARY OF PROPOSED 2013 SOIL SAMPLING LOCATIONS AND LABORATORY ANALYSES

FINAL REMEDIAL ACTION - OPERABLE UNIT 4
BAYER MATERIALSCIENCE LLC
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Proposed Sample ID	Proposed Boring Depth (feet bgs)	Proposed Sample Depth (feet bgs)	Proposed Laboratory Analyses		
			PCBs	PAHs	Arsenic
SB-12	10.0	0-0.2	X		Archive
		0.5-2	Archive		Archive
		2-4	Archive		Archive
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-13	10.0	0-0.2	X	X	
		0.5-2	X		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-14	10.0	0-0.2	X		
		0.5-2	Archive		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-15	10.0	0-0.2	X	X	
		0.5-2	X		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-16	10.0	0-0.2	X		
		0.5-2	Archive		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-17	10.0	0-0.2	X		
		0.5-2	X		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-18	10.0	0-0.2	X		
		0.5-2	X		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-19	10.0	0-0.2	X		Archive
		0.5-2	Archive		Archive
		2-4	Archive		Archive
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-20	10.0	0-0.2	X		
		0.5-2	Archive		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-21	10.0	0-0.2	X		
		0.5-2	Archive		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		

TABLE 2
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FINAL REMEDIAL ACTION - OPERABLE UNIT 4
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125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Proposed Sample ID	Proposed Boring Depth (feet bgs)	Proposed Sample Depth (feet bgs)	Proposed Laboratory Analyses		
			PCBs	PAHs	Arsenic
SB-22	10.0	0-0.2	X		
		0.5-2	Archive		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-23	10.0	0-0.2	X		
		0.5-2	Archive		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-24	10.0	0-0.2	X	X	
		0.5-2	Archive		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-25	10.0	0-0.2	X		
		0.5-2	Archive		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-26	4.0	0-0.2	X		
		0.5-2	X		
		2-4	Archive		
SB-27	4.0	0-0.2	X		
		0.5-2	X		
		2-4	Archive		
SB-28	4.0	0-0.2	X		
		0.5-2	X		
		2-4	Archive		
SB-29	4.0	0-0.2	X		
		0.5-2	X		
		2-4	Archive		
SB-30	4.0	0-0.2	X		
		0.5-2	X		
		2-4	Archive		
SB-31	4.0	0-0.2	X		
		0.5-2	X		
		2-4	Archive		
SB-32	4.0	0-0.2	X		
		0.5-2	X		
		2-4	Archive		
SB-33	10.0	0-0.2	X	X	
		0.5-2	X		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-34	10.0	0-0.2	X		
		0.5-2	Archive		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-35	10.0	0-0.2	X	X	
		0.5-2	X		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		

TABLE 2
SUMMARY OF PROPOSED 2013 SOIL SAMPLING LOCATIONS AND LABORATORY ANALYSES

FINAL REMEDIAL ACTION - OPERABLE UNIT 4
BAYER MATERIALSCIENCE LLC
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Proposed Sample ID	Proposed Boring Depth (feet bgs)	Proposed Sample Depth (feet bgs)	Proposed Laboratory Analyses		
			PCBs	PAHs	Arsenic
SB-36	10.0	0-0.2	X		
		0.5-2	Archive		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-37	10.0	0-0.2	X	X	
		0.5-2	X		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-38	10.0	0-0.2	X		
		0.5-2	Archive		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-39	10.0	0-0.2	X	X	
		0.5-2	Archive		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-40	4.0	0-0.2	X		
		0.5-2	X		
		2-4	Archive		
SB-41	10.0	0-0.2	X		
		0.5-2	Archive		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-42	4.0	0-0.2	X		
		0.5-2	X		
		2-4	Archive		
SB-43	10.0	0-0.2	X		
		0.5-2	Archive		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-44	4.0	0-0.2	X		
		0.5-2	X		
		2-4	Archive		
SB-45	10.0	0-0.2	X		
		0.5-2	X		
		2-4	Archive		
SB-46	4.0	0-0.2	X		
		0.5-2	X		
		2-4	Archive		
SB-47	4.0	0-0.2	X		
		0.5-2	X		
		2-4	Archive		
SB-48	10.0	0-0.2	X		
		0.5-2	X		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		

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FINAL REMEDIAL ACTION - OPERABLE UNIT 4
BAYER MATERIALSCIENCE LLC
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Proposed Sample ID	Proposed Boring Depth (feet bgs)	Proposed Sample Depth (feet bgs)	Proposed Laboratory Analyses		
			PCBs	PAHs	Arsenic
SB-49	10.0	0-0.2	X		
		0.5-2	X		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-50	4.0	0-0.2	X		
		0.5-2	X		
		2-4	Archive		
SB-51	10.0	0-0.2	X	X	
		0.5-2	X		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-52	10.0	0-0.2	X		
		0.5-2	X		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-53	10.0	0-0.2	X		
		0.5-2	X		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-54	10.0	0-0.2	X		
		0.5-2	X		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-55	10.0	0-0.2	X		
		0.5-2	Archive		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-56	10.0	0-0.2	X		
		0.5-2	Archive		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-57	10.0	0-0.2	X		
		0.5-2	X		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-58	10.0	0-0.2	X		
		0.5-2	Archive		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-59	10.0	0-0.2	X		
		0.5-2	Archive		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		

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FINAL REMEDIAL ACTION - OPERABLE UNIT 4
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125 NEW SOUTH ROAD
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Proposed Sample ID	Proposed Boring Depth (feet bgs)	Proposed Sample Depth (feet bgs)	Proposed Laboratory Analyses		
			PCBs	PAHs	Arsenic
SB-60	10.0	0-0.2	X		
		0.5-2	Archive		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-61	10.0	0-0.2	X		
		0.5-2	Archive		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-62	10.0	0-0.2	X		
		0.5-2	Archive		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-63	10.0	0-0.2	X		
		0.5-2	X		
		2-4	Archive		
SB-64	10.0	0-0.2	X		
		0.5-2	X		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-65	10.0	0-0.2	X	X	
		0.5-2	X		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-66	10.0	0-0.2	X		
		0.5-2	Archive		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-67	10.0	0-0.2	X		
		0.5-2	X		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-68	10.0	0-0.2	X		
		0.5-2	X		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-69	10.0	0-0.2	X		
		0.5-2	X		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-70	10.0	0-0.2	X	X	
		0.5-2	X		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		

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FINAL REMEDIAL ACTION - OPERABLE UNIT 4
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125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Proposed Sample ID	Proposed Boring Depth (feet bgs)	Proposed Sample Depth (feet bgs)	Proposed Laboratory Analyses		
			PCBs	PAHs	Arsenic
SB-71	10.0	0-0.2	X		
		0.5-2	X		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-72	10.0	0-0.2	X		
		0.5-2	Archive		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-73	10.0	0-0.2	X	X	
		0.5-2	X		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-74	10.0	0-0.2	X		
		0.5-2	Archive		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-75	4.0	0-0.2	X		
		0.5-2	X		
		2-4	Archive		
SB-76	10.0	0-0.2	X		
		0.5-2	Archive		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-77	10.0	0-0.2	X		
		0.5-2	Archive		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-78	10.0	0-0.2	X		
		0.5-2	X		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-79	4.0	0-0.2	X		
		0.5-2	X		
		2-4	Archive		
SB-80	10.0	0-0.2	X		
		0.5-2	Archive		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-81	10.0	0-0.2	X		
		0.5-2	X		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		

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SUMMARY OF PROPOSED 2013 SOIL SAMPLING LOCATIONS AND LABORATORY ANALYSES

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BAYER MATERIALSCIENCE LLC
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Proposed Sample ID	Proposed Boring Depth (feet bgs)	Proposed Sample Depth (feet bgs)	Proposed Laboratory Analyses		
			PCBs	PAHs	Arsenic
SB-82	10.0	0-0.2	X		
		0.5-2	X		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-83	10.0	0-0.2	X	X	
		0.5-2	X		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-84	10.0	0-0.2	X		
		0.5-2	Archive		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-85	10.0	0-0.2	X	X	
		0.5-2	X		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-86	10.0	0-0.2	X		
		0.5-2	Archive		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-87	10.0	0-0.2	X	X	
		0.5-2	X		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-88	10.0	0-0.2	X		
		0.5-2	Archive		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-89	10.0	0-0.2	X		
		0.5-2	Archive		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-90	10.0	0-0.2	X		
		0.5-2	Archive		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-91	10.0	0-0.2	X		
		0.5-2	Archive		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		

TABLE 2
SUMMARY OF PROPOSED 2013 SOIL SAMPLING LOCATIONS AND LABORATORY ANALYSES

FINAL REMEDIAL ACTION - OPERABLE UNIT 4
BAYER MATERIALSCIENCE LLC
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Proposed Sample ID	Proposed Boring Depth (feet bgs)	Proposed Sample Depth (feet bgs)	Proposed Laboratory Analyses		
			PCBs	PAHs	Arsenic
SB-92	10.0	0-0.2	X		
		0.5-2	Archive		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-93	10.0	0-0.2	X		
		0.5-2	X		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-94	10.0	0-0.2	X	X	
		0.5-2	X		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-95	10.0	0-0.2	X	X	
		0.5-2	X		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-96	10.0	0-0.2	X	X	
		0.5-2	X		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-97	10.0	0-0.2	X		
		0.5-2	X		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-98	10.0	0-0.2	X		
		0.5-2	X		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-99	10.0	0-0.2	X		
		0.5-2	X		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-100	10.0	0-0.2	X		
		0.5-2	X		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-101	10.0	0-0.2	X		
		0.5-2	X		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		

TABLE 2
SUMMARY OF PROPOSED 2013 SOIL SAMPLING LOCATIONS AND LABORATORY ANALYSES

FINAL REMEDIAL ACTION - OPERABLE UNIT 4
BAYER MATERIALSCIENCE LLC
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Proposed Sample ID	Proposed Boring Depth (feet bgs)	Proposed Sample Depth (feet bgs)	Proposed Laboratory Analyses		
			PCBs	PAHs	Arsenic
SB-102	10.0	0-0.2	X		
		0.5-2	X		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-103	10.0	0-0.2	X		
		0.5-2	X		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-104	10.0	0-0.2	X		
		0.5-2	Archive		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-105	10.0	0-0.2	X	X	
		0.5-2	X		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-106	4.0	0-0.2	X		
		0.5-2	X		
		2-4	Archive		
SB-107	4.0	0-0.2	X		
		0.5-2	X		
		2-4	Archive		
SB-108	4.0	0-0.2	X		
		0.5-2	X		
		2-4	Archive		
SB-109	10.0	0-0.2	X		
		0.5-2	X		
		2-4	Archive		
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-110	10.0	0-0.2	X		Archive
		0.5-2	Archive		Archive
		2-4	Archive		Archive
		4-6	Archive		
		6-8	Archive		
		8-10	Archive		
SB-111	4.0	0-0.2			X
		0.5-2			X
		2-4			Archive
SB-112	4.0	0-0.2			X
		0.5-2			X
		2-4			Archive
SB-113	4.0	0-0.2			X
		0.5-2			X
		2-4			Archive
SB-114	4.0	0-0.2			Archive
		0.5-2			Archive
		2-4			Archive
SB-115	4.0	0-0.2			X
		0.5-2			X
		2-4			Archive
SB-116	4.0	0-0.2			X
		0.5-2			X
		2-4			Archive

TABLE 2
SUMMARY OF PROPOSED 2013 SOIL SAMPLING LOCATIONS AND LABORATORY ANALYSES

FINAL REMEDIAL ACTION - OPERABLE UNIT 4
BAYER MATERIALSCIENCE LLC
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

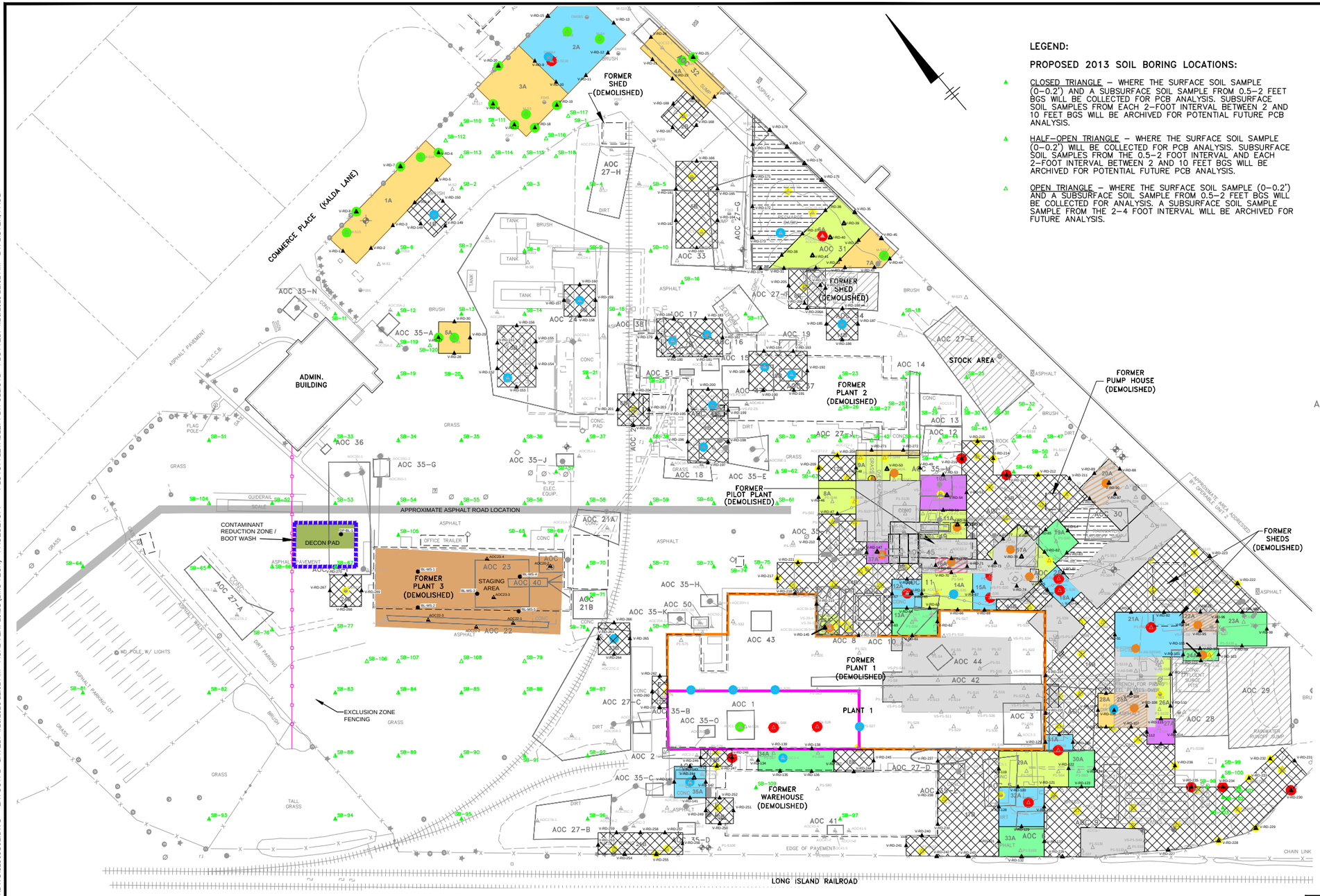
Proposed Sample ID	Proposed Boring Depth (feet bgs)	Proposed Sample Depth (feet bgs)	Proposed Laboratory Analyses		
			PCBs	PAHs	Arsenic
SB-117	4.0	0-0.2			X
		0.5-2			X
		2-4			Archive
SB-118	4.0	0-0.2			Archive
		0.5-2			Archive
		2-4			Archive
SB-119	4.0	0-0.2			Archive
		0.5-2			Archive
		2-4			Archive
SB-120	4.0	0-0.2			X
		0.5-2			X
		2-4			Archive

Notes:

1. Soil sampling intervals will be adjusted, as appropriate, based on field observations (e.g., obstructions, staining, obvious odors), if encountered.
2. Proposed sampling and boring depths are measured in feet below ground surface (ft bgs).
3. Samples to be submitted for laboratory analysis for one or more of the following constituents, as indicated above:
   - Polychlorinated biphenyls (PCBs) using United States Environmental Protection Agency (USEPA) SW-846 Method 8082.
   - Arsenic using USEPA SW-846 Method 6010.
   - Polycyclic aromatic hydrocarbons (PAHs) using USEPA SW-846 Method 8270.

ARCADIS

Figure



LEGEND:

PROPOSED 2013 SOIL BORING LOCATIONS:

CLOSED TRIANGLE – WHERE THE SURFACE SOIL SAMPLE (0–0.2') AND A SUBSURFACE SOIL SAMPLE FROM 0.5–2 FEET BGS WILL BE COLLECTED FOR PCB ANALYSIS. SUBSURFACE SOIL SAMPLES FROM EACH 2–FOOT INTERVAL BETWEEN 2 AND 10 FEET BGS WILL BE ARCHIVED FOR POTENTIAL FUTURE PCB ANALYSIS.

HALF–OPEN TRIANGLE – WHERE THE SURFACE SOIL SAMPLE (0–0.2') WILL BE COLLECTED FOR PCB ANALYSIS. SUBSURFACE SOIL SAMPLES FROM THE 0.5–2 FOOT INTERVAL AND EACH 2–FOOT INTERVAL BETWEEN 2 AND 10 FEET BGS WILL BE ARCHIVED FOR POTENTIAL FUTURE PCB ANALYSIS.

OPEN TRIANGLE – WHERE THE SURFACE SOIL SAMPLE (0–0.2') AND A SUBSURFACE SOIL SAMPLE FROM 0.5–2 FEET BGS WILL BE COLLECTED FOR ANALYSIS. A SUBSURFACE SOIL SAMPLE SAMPLE FROM THE 2–4 FOOT INTERVAL WILL BE ARCHIVED FOR FUTURE ANALYSIS.

- AREA OF PREVIOUS EXCAVATION
- SURFACE SOIL EXCAVATION ANTICIPATED TO AVERAGE DEPTH OF 1 FOOT WHERE REMOVED SOIL IS ELIGIBLE FOR RE–USE AS SUBSURFACE FILL
- ANTICIPATED CAP AREA (BACKFILLED TO SURROUNDING GRADE)
- SOIL EXCAVATION ANTICIPATED TO AVERAGE DEPTH OF 1 FOOT
- SOIL EXCAVATION ANTICIPATED TO AVERAGE DEPTH OF 2 FEET
- SOIL EXCAVATION ANTICIPATED TO AVERAGE DEPTH OF 4 FEET
- SOIL EXCAVATION ANTICIPATED TO AVERAGE DEPTH OF 6 FEET
- SOIL EXCAVATION ANTICIPATED TO AVERAGE DEPTH OF 8 FEET
- 1A SOIL EXCAVATION AREA
- 1B SURFACE SOIL EXCAVATION AREA WHERE SOIL IS ELIGIBLE FOR RE–USE

AREA OF PREVIOUS EXCAVATION:

- ANTICIPATED ADDITIONAL EXCAVATION TO AVERAGE DEPTH TO 8.5 FEET
- ANTICIPATED ADDITIONAL EXCAVATION TO AVERAGE DEPTH TO 10.0 FEET
- BASELINE SOIL SAMPLES COLLECTED IN MARCH 2013
- CONFIRMATION SAMPLE
- SOIL BORING
- DOCUMENTATION SAMPLE AT PROPERTY BOUNDARY
- FORMER MONITORING WELL (WELL DECOMMISSIONED)
- AOC 1 AREA OF CONCERN
- HISTORIC AND CLOSED AOC
- COMPOSITE SOIL SAMPLING LOCATION (COLLECTED BY IMPACT ENVIRONMENTAL)

ICM	INTERIM CORRECTIVE MEASURE
BGS	BELOW GROUND SURFACE
VOC	VOLATILE ORGANIC COMPOUNDS
SVOC	SEMI–VOLATILE ORGANIC COMPOUNDS
PCB	POLYCHLORINATED BIPHENYLS
SCOs	SOIL CLEANUP OBJECTIVES
PPM	PARTS PER MILLION
RCRA	RESOURCE CONSERVATION AND RECOVERY ACT

- LIMITS OF SOIL SCRAPED AND USED AS SUBSURFACE (SUMP) BACKFILL (SCRAPE AREA)–2009
- MOUND AREA (EXISTING)

COLOR–CODING FOR SAMPLING LOCATIONS FOLLOWING ICM SOIL REMOVAL ACTIVITIES ARE AS FOLLOWS:

- SURFACE SAMPLING LOCATION WHERE PCB SOIL CONCENTRATION IS >1 ppm BUT ≤10 ppm
- SUBSURFACE SAMPLING LOCATION WHERE PCB SOIL CONCENTRATION IS >10 ppm
- SURFACE SOIL SAMPLING LOCATION WHERE PCB SOIL CONCENTRATION IS >10 ppm
- SAMPLING LOCATION WHERE SVOC SOIL CONCENTRATION IS GREATER THAN 6 NYCRR PART 375 COMMERCIAL USE SCOs
- SAMPLING LOCATION WHERE METALS SOIL CONCENTRATION IS GREATER THAN 6 NYCRR PART 375 COMMERCIAL USE SCOs

0 50' 100'
GRAPHIC SCALE

NOTES:

1. BASE MAP ADAPTED FROM A DRAWING ENTITLED "AREA OF CONCERN MAP", FIGURE 1–2, BY ENSR CORPORATION. PISCATAWAY, NJ, AT A SCALE OF 1"=60', DATED 2/14/03.
2. EXISTING SAMPLING LOCATIONS WERE SURVEYED BY ARCADIS, INC. BETWEEN FEBRUARY 2004 AND JULY 2011.
3. 6 NYCRR PART 375 COMMERCIAL AND INDUSTRIAL USE SCOs ARE FROM TITLE 6 OF THE OFFICIAL COMPILATION OF CODES, RULES, AND REGULATIONS OF THE STATE OF NEW YORK (6 NYCRR) PART 375–6.8 (b).
4. COLOR–CODING FOR SAMPLING LOCATIONS REPRESENTS PCB, SVOC, OR METAL CONCENTRATIONS EXCEEDING COMMERCIAL USE SCOs IN SOILS AFTER PREVIOUS ICM EXCAVATION ACTIVITIES.
5. THE LOCATION OF SAMPLES COLLECTED BY IMPACT ENVIRONMENTAL AS PART OF A PHASE II ENVIRONMENTAL SITE ASSESSMENT DATED NOVEMBER 3, 2006 EXHIBITING PCB, SVOC, AND METAL CONCENTRATIONS GREATER THAN COMMERCIAL USE SCO IN COMPOSITE SOIL SAMPLES ARE SHOWN ON THIS FIGURE.
6. LOCATIONS SHOWN IN GRAY ARE FORMER SITE FEATURES.
7. VERIFICATION SOIL SAMPLES COLLECTED AS PART OF THE REMEDIAL DESIGN WERE COLLECTED BY PREFERRED ENVIRONMENTAL SERVICES IN 2013.

BAYER MATERIALSCIENCE LLC
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

2013 ADDITIONAL PCB SOIL DELINEATION

PROPOSED 2013 SAMPLING LOCATIONS

ARCADIS

FIGURE
1

Attachment A

Hand Markup Figure:
Proposed Verification Soil Sampling Locations and Existing Confirmation Soil Analytical Results

Attachment A
Legend for Hand-Markup Figures

Final Remedial Action – Operable Unit 4
Bayer MaterialScience LLC
125 New South Road
Hicksville, New York

The information below will aid in interpreting the results shown on the three figures that follow this page:

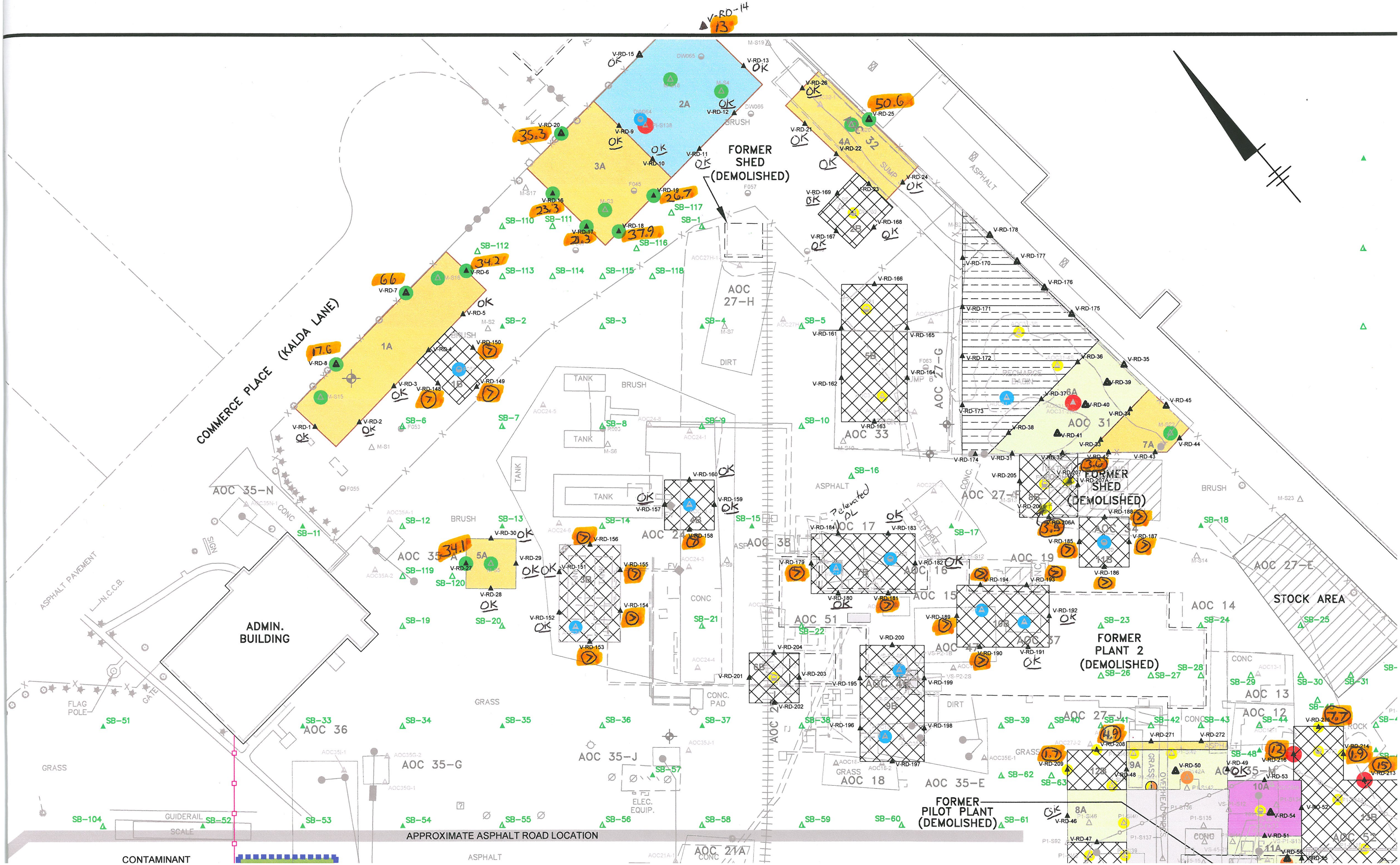
- Orange shading is used to identify locations where polychlorinated biphenyls (PCBs), arsenic, or polycyclic aromatic hydrocarbons (PAHs) have been identified at concentrations exceeding soil cleanup levels. The data is current as of April 26, 2013.

- The actual PCB and arsenic concentrations exceeding the soil cleanup levels are hand-marked on the figures. To determine if the reported concentrations are for arsenic or PCBs, refer to the color of the dots within the middle of the excavation areas (i.e., if a green dot, then the result is for arsenic --- if a yellow or red dot, then the result is for PCBs).

- Locations where PAHs have been identified at concentrations exceeding soil cleanup levels are indicated by the following symbol: ">".

- Locations where no constituents have been identified at concentrations exceeding the soil cleanup levels are designated by a hand-written "OK".

For locations where there is no data yet (as of April 26th), there are no hand-markups next to the sampling location.



V-RD-14
13
FORMER SHED (DEMOLISHED)
COMMERCE PLACE (KALDA LANE)
V-RD-15 OK
V-RD-13 OK
2A
V-RD-12 OK
V-RD-9 OK
V-RD-10 OK
V-RD-11 OK
V-RD-20 35.3
3A
V-RD-16 23.3
V-RD-19 26.7
V-RD-17 21.3
V-RD-18 37.9
V-RD-26 OK
V-RD-25 50.6
V-RD-21 OK
4A
V-RD-22 OK
V-RD-24 OK
V-RD-23
V-RD-169 OK
2B
V-RD-168 OK
V-RD-167 OK
SB-110
SB-111
SB-112
SB-113
SB-114
SB-115
SB-116
SB-117
SB-118
SB-1
V-RD-6 34.2
V-RD-7 66
V-RD-5 OK
1A
V-RD-8 17.6
V-RD-4
1B
V-RD-150 7
V-RD-149 7
V-RD-3 OK
V-RD-148 7
V-RD-2 OK
V-RD-1 OK
SB-2
SB-3
SB-4
SB-5
SB-6
SB-7
SB-8
SB-9
SB-10
AOC 27-H
DIRT
BRUSH
TANK
ASPHALT
V-RD-166
V-RD-161
V-RD-165
5B
V-RD-162
V-RD-164
V-RD-163
AOC 33
AOC 27-G
V-RD-178
V-RD-177
V-RD-170
V-RD-176
V-RD-175
V-RD-171
V-RD-172
RECHARGE BASIN
V-RD-173
V-RD-174
V-RD-36
V-RD-35
V-RD-39
V-RD-37
6A
V-RD-40
V-RD-34
V-RD-45
AOC 31
V-RD-38
V-RD-41
V-RD-33
7A
V-RD-44
V-RD-31
V-RD-32
V-RD-42 3.6
V-RD-43
V-RD-205
V-RD-207
V-RD-207A
8B
V-RD-206
V-RD-206A 3.5
AOC 27-F
V-RD-188 7
AOC 34
V-RD-185 7
V-RD-187 7
11B
V-RD-186 7
BRUSH
SB-18
AOC 27-E
STOCK AREA
AOC 35-N
CONC
SB-11
SB-12
SB-13
SB-14
SB-15
SB-16
SB-17
SIGN
AOC 35-A
V-RD-30 OK
5A
V-RD-27 34.1
V-RD-29 OK
V-RD-28 OK
SB-119
SB-120
V-RD-156 7
V-RD-151
V-RD-155 7
3B
V-RD-154 7
V-RD-152 OK
V-RD-153 7
V-RD-160 OK
V-RD-157 OK
4B
V-RD-159 OK
AOC 24
V-RD-158 7
AOC 38
Relevated DL
V-RD-184
AOC 17
V-RD-183 OK
PLATFORM
V-RD-179 7
7B
V-RD-182 OK
AOC 16
V-RD-180 OK
V-RD-181 7
AOC 15
AOC 19
V-RD-194 7
V-RD-193 7
AOC 51
SB-22
V-RD-189 7
10B
V-RD-192 OK
AOC 37
AOC 47
V-RD-190 7
V-RD-191 OK
AOC 14
FORMER PLANT 2 (DEMOLISHED)
SB-23
SB-24
SB-25
SB-26
SB-27
SB-28
SB-29
SB-30
SB-31
CONC
AOC 13
AOC 12
ADMIN. BUILDING
ASPHALT PAVEMENT
N.C.C.B.
FLAG POLE
GATE
SB-19
SB-20
SB-21
CONC
V-RD-204
6B
V-RD-203
V-RD-201
V-RD-202
V-RD-200
V-RD-195
AOC 46
V-RD-199
9B
V-RD-196
V-RD-198
V-RD-197
DIRT
CONC. PAD
GRASS
SB-51
SB-33
AOC 36
SB-34
SB-35
SB-36
SB-37
SB-38
SB-39
SB-40
AOC 27-J
SB-41 4.9
SB-42
SB-43
SB-44
SB-45 7.7
V-RD-208
V-RD-209 1.7
V-RD-271
V-RD-272
12B
9A
V-RD-48
V-RD-50
V-RD-49 OK
AOC 35-M
V-RD-216 12
V-RD-214 1.9
V-RD-213 15
V-RD-215
SB-48
SB-62
SB-63
AOC 35-E
AOC 18
AOC 35-G
AOC 35-J
ELEC. EQUIP.
SB-57
GRASS
10A
V-RD-53
V-RD-52
V-RD-54
13B
AOC 52
8A
V-RD-46 OK
V-RD-47
OVERHEAD PIPES
V-RD-51
11A
V-RD-56
V-RD-55
FORMER PILOT PLANT (DEMOLISHED)
SB-104
GUIDERAIL
SB-52
SCALE
SB-53
SB-54
SB-55
SB-56
SB-58
SB-59
SB-60
SB-61
APPROXIMATE ASPHALT ROAD LOCATION
CONTAMINANT
ASPHALT
AOC 21A

FORMER PUMP HOUSE (DEMOLISHED)

FORMER SHEDS (DEMOLISHED)

APPROXIMATE AREA ADDRESSED BY OPERABLE UNIT 2

ASPHALT ROAD LOCATION

FORMER PILOT PLANT (DEMOLISHED)

FORMER PLANT 2 (DEMOLISHED)

FORMER PLANT 1 (DEMOLISHED)

FORMER WAREHOUSE (DEMOLISHED)

PLANT 1

STAGING AREA

AOC 1 AOC 2 AOC 3 AOC 4 AOC 5 AOC 6 AOC 7 AOC 8 AOC 9 AOC 10 AOC 11 AOC 12 AOC 13 AOC 18 AOC 21A AOC 21B AOC 22 AOC 23 AOC 25 AOC 27-B AOC 27-C AOC 27-D AOC 28 AOC 29 AOC 30 AOC 35-B AOC 35-C AOC 35-D AOC 35-E AOC 35-H AOC 35-I AOC 35-J AOC 35-K AOC 35-L AOC 35-O AOC 40 AOC 41 AOC 42 AOC 43 AOC 44 AOC 45 AOC 49 AOC 50 AOC 51 AOC 52

EDGE OF PAVEMENT

CHAIN LINK

LONG ISLAND RAILROAD

' ADAPTED FROM A DRAWING ENTITLED "AREA OF CONCERN MAP", FIGURE 1-2, BY ENSR
ION. PISCATAWAY, NJ, AT A SCALE OF 1"=60', DATED 2/14/03.

5. THE LOCATION OF SAMPLES COLLECTED BY IMPACT ENVIRONMENTAL AS PART OF A PHASE II ENVIRONMENTAL SITE ASSESSMENT DATED NOVEMBER 3, 2006 EXHIBITING PCB, SVOC, AND METAL

ADMIN. BUILDING
FLAG POLE
GATE
SIGN
ASPHALT PAVEMENT
N.C.C.B.
GRASS
GUIDERAIL
SCALE
APPROXIMATE ASPHALT ROAD LOCATION
CONTAMINANT REDUCTION ZONE / BOOT WASH
DECON PAD
DP-BL-1
ASPHALT
OFFICE TRAILER
ASPHALT PAVEMENT
CONC.
DIRT PARKING
ASPHALT WALK
WD. POLE W/ LIGHTS
ASPHALT PARKING LOT
BRUSH
TALL GRASS
EXCLUSION ZONE FENCING
FORMER PLANT 3 (DEMOLISHED)
STAGING AREA
FORMER PLANT 2 (DEMOLISHED)
FORMER PILOT PLANT (DEMOLISHED)
FORMER PLANT 1 (DEMOLISHED)
FORMER WAREHOUSE (DEMOLISHED)
PLANT 1
CONC. PAD
ELEC. EQUIP.
OVERHEAD POWER LINE
EDGE OF PAVEMENT
LONG ISLAND RAILROAD
AOC 1
AOC 2
AOC 8
AOC 10
AOC 15
AOC 16
AOC 17
AOC 18
AOC 19
AOC 21A
AOC 21B
AOC 22
AOC 23
AOC 27-A
AOC 27-B
AOC 27-C
AOC 35-B
AOC 35-C
AOC 35-D
AOC 35-E
AOC 35-G
AOC 35-H
AOC 35-J
AOC 35-K
AOC 36
AOC 37
AOC 38
AOC 40
AOC 41
AOC 43
AOC 50
AOC 51
SB-11
SB-19
SB-20
SB-21
SB-22
SB-23
SB-26
SB-27
SB-33
SB-34
SB-35
SB-36
SB-37
SB-38
SB-39
SB-40
SB-41
SB-42
SB-51
SB-52
SB-53
SB-54
SB-55
SB-56
SB-57
SB-58
SB-59
SB-60
SB-61
SB-62
SB-63
SB-64
SB-65
SB-66
SB-67
SB-68
SB-69
SB-70
SB-71
SB-72
SB-73
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SB-75
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SB-78
SB-79
SB-80
SB-81
SB-82
SB-83
SB-84
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SB-86
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SB-88
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SB-91
SB-92
SB-93
SB-94
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SB-96
SB-97
SB-104
SB-105
SB-106
SB-107
SB-108
SB-109
SB-111
SB-112
SB-113
SB-114
SB-115
SB-116
SB-117
SB-118
SB-119
SB-120
V-RD-27
V-RD-28
V-RD-29
V-RD-30
V-RD-46
V-RD-47
V-RD-48
V-RD-60
V-RD-134
V-RD-135
V-RD-136
V-RD-137
V-RD-138
V-RD-139
V-RD-140
V-RD-141
V-RD-142
V-RD-143
V-RD-144
V-RD-145
V-RD-146
V-RD-147
V-RD-148
V-RD-151
V-RD-152
V-RD-153
V-RD-154
V-RD-155
V-RD-156
V-RD-158
V-RD-179
V-RD-180
V-RD-181
V-RD-182
V-RD-183
V-RD-184
V-RD-185
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V-RD-192
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V-RD-194
V-RD-195
V-RD-196
V-RD-197
V-RD-198
V-RD-199
V-RD-200
V-RD-201
V-RD-202
V-RD-203
V-RD-204
V-RD-206A
V-RD-208
V-RD-209
V-RD-210
V-RD-217
V-RD-218
V-RD-219
V-RD-220
V-RD-221
V-RD-241
V-RD-244
V-RD-245
V-RD-246
V-RD-247
V-RD-248
V-RD-249
V-RD-250
V-RD-251
V-RD-252
V-RD-253
V-RD-254
V-RD-255
V-RD-256
V-RD-257
V-RD-258
V-RD-259
V-RD-260
V-RD-261
V-RD-262
V-RD-263
V-RD-264
V-RD-265
V-RD-266
V-RD-267
V-RD-268
V-RD-269
V-RD-270
V-RD-271
BL-MS-1
BL-MS-2
BL-MS-3
BL-MS-4
BL-MS-5
34.1
3.4
4.9
1.7
4.2
2.8
5.6
1.3
1.2
OK