

Transmitted Via U.S. Mail

June 26, 2003

Mr. James Hosch
Wisconsin Department of Natural Resources
1401 Tower Avenue
Superior, WI 54880

Re: Koppers Inc. (formerly known as Koppers Industries, Inc., or KII) Wood-Treating Facility,
Superior, Wisconsin – Crawford Creek Floodplain Investigation Results
BBL Project #: 388.42.003 #2

Dear Mr. Hosch:

I. Introduction

Between February 17 and 26, 2003 investigation activities were performed in a portion of the Crawford Creek floodplain as a component of the ongoing RCRA Facility Investigation (RFI) for the above-referenced site (the Site; Figure 1). The investigations were performed by Blasland, Bouck & Lee, Inc. (BBL) and Severson Environmental Services, Inc. (Severson) on behalf of Beazer East, Inc. (Beazer). These investigations included excavation of test pits within a portion of the Crawford Creek floodplain extending from approximately 600 feet upstream of the confluence with the Outfall 001 drainage ditch downstream to the railroad crossing (Figure 2), as well as sampling and analysis of floodplain soils at selected locations and depth intervals. These activities were performed in accordance with a Work Plan that was submitted to the Wisconsin Department of Natural Resources (WDNR) on July 25, 2001 and conditionally approved by the agency in a letter to Beazer dated April 11, 2002. While other investigation components from the Work Plan had already been completed and reported to the WDNR¹, the Crawford Creek investigations had not been performed pending wetlands-related permits and approvals from the WDNR and United States Army Corps of Engineers (USACE), as well as access issues associated with private property within the investigation area.

As stated in the July 25, 2001 Work Plan, the objectives of the Crawford Creek floodplain investigations were to:

- assess the vertical and horizontal extents of potential Site-related impacts within the floodplain soils;
- assess the distribution and continuity of visibly impacted material in both a downstream direction and laterally distant from the creek channel; and
- provide information to facilitate the development of remedial alternatives for addressing impacted floodplain soils.

¹ The scope and findings of the other activities proposed in the July 25, 2001 Work Plan were previously submitted to the WDNR in letters dated September 21, 2001 (bedrock groundwater monitoring) and April 12, 2002 (fire pond sediment probing/sampling and former penta storage tank area soil sampling).

In a letter from BBL to the WDNR dated December 30, 2002, a revised approach for conducting the floodplain investigations during frozen ground conditions was proposed. This approach minimized potential wetland impacts and eliminated the need for a semi-permanent access road, thus facilitating the permitting and approval process and Beazer's ability to obtain a property access agreement. The USACE subsequently issued a General Permit for the floodplain investigation activities on February 10, 2003 and the WDNR provided verbal approval to conduct the investigations on February 14, 2003. In addition, the WDNR issued temporary bridge permits for the use of timber mats to provide access to the floodplain area from East Hammond Avenue and to facilitate creek crossings.

The July 25, 2001 Work Plan also indicated that, in conjunction with the test pit excavations and floodplain soil samples, sediment samples would be collected from five locations in the Crawford Creek channel (one immediately upstream of the railroad crossing and four between the railroad crossing and confluence with the Nemadji River). However, when the field activities were performed in February 2003, the sediment samples could not be collected due to the presence of ice and frozen sediment conditions within Crawford Creek. As further discussed below, collection of these sediment samples was performed in May 2003 and the findings will be provided in a separate submittal to the WDNR.

The remainder of this letter summarizes the scope and findings of the Crawford Creek floodplain test pit excavations and soil sampling activities.

II. Scope of Investigation

As indicated above, Crawford Creek floodplain investigation activities were conducted within an area extending from approximately 600 feet upstream of the confluence with the Outfall 001 drainage ditch downstream to the railroad crossing (Figure 2). Within this area, 113 test pits were excavated and 10 floodplain soil samples were collected for laboratory analysis.

Test Pits

Test pits were excavated by Severson under the direction and observation of BBL field personnel. The test pits were generally oriented along 27 transects (spaced at intervals of approximately 50 to 100 feet) extending perpendicular to the centerline of the creek channel. The transects were numbered chronologically, with the first transect located immediately upstream of the railroad tracks (i.e., transect numbering started with the downstream-most transect). Along each transect, test pits were excavated on both sides of the creek, beginning approximately 5 to 20 feet from the edge of the channel and then at spacings of approximately 30 to 140 feet until the edge of the floodplain was encountered, or until two consecutive "clean" test pits were excavated (whichever occurred first). Accordingly, the number of test pits excavated along a given transect varied based on the width of the floodplain, proximity of the channel to the edge of the floodplain, and the nature of observed subsurface impacts.

Two track-mounted excavators were used for the test pit excavations; one was equipped with a "jack hammer" attachment to break up the frozen ground and the second was equipped with a bucket. At each location, the vegetated surficial soils were removed and staged on one side of the test pit. The subsurface soils were then excavated and staged on the other side of the test pit. Test pit dimensions and visual observations of the subsurface materials (e.g., soil types, organic materials, sheens, staining, seams of creosote-like product) were recorded in a field notebook. In addition, test pits were photographed and/or videotaped. When all measurements and observations had been recorded, the subsurface soils were backfilled and compacted. The vegetated surficial soils were then re-placed on top of the excavation area and a wooden stake was driven into the center of each test pit area. The stakes were subsequently surveyed to record the test pit locations and elevations. The surveyed test pit locations are shown on Figure 2.

Test pits were excavated to a depth at which visibly impacted materials were no longer observed, or until additional excavation was no longer feasible (i.e., due to depth limitations of excavation equipment). Although the anticipated test pit depths proposed in the July 25, 2001 Work Plan were less than 5 feet below grade, the presence of visibly impacted materials at depths greater than 5 feet necessitated deeper excavation. The actual test pit depths ranged from 5 to 17 feet below grade.

Floodplain Soil Sampling and PCDD/PCDF Analysis

In conjunction with the test pit excavations, 10 floodplain soil samples were collected and submitted for laboratory analysis of polychlorinated dibenzo-p-dioxins (PCDDs) and polychlorinated dibenzofurans (PCDFs) to address the WDNR's concern that PCDDs/PCDFs may be present in materials that are not visibly impacted. The floodplain soil samples were submitted to Severn Trent Laboratories, Inc. in West Sacramento, California for PCDD/PCDF analysis using United States Environmental Protection Agency (USEPA) Method 8290.

Two of the soil samples were collected from the downstream-most set of test pits in the floodplain (one from a test pit located east of the creek and one from a test pit located west of the creek). In both cases, the samples were collected from the 0- to 6-inch depth interval from the first test pit laterally distant from the centerline of the creek channel in which no visible impacts were observed in the surficial or subsurface soils. Using a similar approach, two samples were collected from the 0- to 6-inch depth interval from test pits located approximately mid-way between the confluence with the Outfall 001 drainage ditch and the railroad crossing. Six additional floodplain soil samples were collected from the 6-inch depth interval located below visibly impacted materials at six other test pit locations. These six additional samples were collected at selected test pits spatially distributed throughout the floodplain investigation area.

III. Investigation Findings

Test Pits

Test pit logs (Attachment A) were prepared based on the observations recorded during the field activities. As indicated on the logs, visibly impacted materials were observed in certain test pits throughout the Crawford Creek floodplain investigation area. Visible impacts can generally be categorized into two types: 1) a black "stained" layer and 2) isolated seams of creosote-like product occupying fractures in the clay matrix. Representative photographs showing the black "stained" layer and isolated seams of creosote-like product are provided in Attachment B. Additional descriptions of each type of visible impact are provided below.

When encountered, the black stained layer was located at depths of 0.5 to 8 feet below grade and represented a continuous stratigraphic layer ranging from approximately 0.4 to 5 feet thick (average thickness of 2.0 feet). The black stained layer appeared to be a silty sand material that was visibly distinguishable from the overlying and underlying deposits (predominantly red/brown clays and silty clays) and typically exhibited a creosote-like odor. With the exception of a single instance where an isolated seam of creosote-like product occurred within the black stained layer, there was no visual evidence of residual "free product" occupying the soil matrix within this stained soil layer.

The isolated seams of creosote-like product were observed at discrete locations along the walls of certain test pits at depths ranging from near-surface to 17 feet below grade. The seams were not continuous throughout this depth range; rather, seams occurred in discrete, isolated locations at one or more points along the test pit sidewalls within this depth range. The seams were attributed to locations where creosote-like product had come to be present in isolated fractures within the clay matrix. At such

locations, a small quantity of material would flow from the excavation sidewall due to the pressure release associated with removal of adjacent soils from the test pit. When encountered, seams typically represented a very small fraction (i.e., less than 1%) of the surface area of the test pit sidewalls.

Table 1 summarizes the test pit observations, including ID, depths of black stained layer and/or creosote-like product seams (if observed), and total depth of each test pit. With respect to the presence of creosote-like product seams, the depth range specified in Table 1 represents the minimum and maximum depth at which product seams were observed. Consistent with the isolated nature of the observations, this is not intended to imply that the seams were continuously present throughout the specified depth range.

To provide a spatial representation of the distribution of observed impacts, Figure 2 also includes a color-coded depiction of the type(s) of impacts observed within each test pit. The color codes correspond to the following four types of observations:

- no visibly impacted materials observed (yellow shading);
- black stained layer observed (green shading);
- isolated seams of creosote-like product observed in discrete fractures of the clay matrix (blue shading); and
- both black stained layer and isolated seams of creosote-like product observed (pink shading).

As illustrated by the color coding on Figure 2, there were two main areas of the Crawford Creek floodplain in which visibly impacted materials were observed:

- 1 along the east side of Crawford Creek from approximately 350 feet upstream to approximately 300 feet downstream of the confluence with the Outfall 001 drainage channel; and
2. along both the east and west sides of Crawford Creek from approximately 600 feet upstream of the railroad crossing downstream to the railroad crossing.

As shown on Figure 2, a few “isolated” observations of visibly impacted materials were located between the two areas identified above. At each of these “isolated” locations, only the first test pit adjacent to the creek channel contained visibly impacted materials; two “clean” test pits were subsequently excavated further away from the creek channel along each transect.

With the exception of the area immediately upstream of the railroad crossing, very few impacts were observed in test pits excavated on the west side of the creek channel. Beginning with Transect No. 6 and extending upstream, visible impacts were observed in only four of 39 test pits (10%), with no impacts observed in test pits on the west side of the creek upstream of Transect No. 14. In addition, with the exception of a single test pit along Transect No. 14, no visible impacts were observed in any test pit (on either side of the channel) over the approximately 900 linear feet of channel between Transect Nos. 12 and 19.

Floodplain Soil Sampling and PCDD/PCDF Analysis

Validated PCDD/PCDF analytical results for the Crawford Creek floodplain soil samples are summarized in Table 2 and the associated Data Review Report (including laboratory analytical data sheets) is provided in Attachment C. In addition to presenting the PCDD/PCDF data, Table 2 includes toxic equivalency

(TEQ) concentrations for each sample. The TEQ concentrations were calculated following the 1998 World Health Organization (WHO) guidelines, as summarized below:

Each PCDD/PCDF congener is assigned a toxicity equivalency Factor (TEF) ranging from 0.001 to 1, based on its toxicity relative to the congener 2,3,7,8-TCDD.

The concentration of each individual PCDD/PCDF congener is multiplied by its respective TEF.

The sum of these values for each PCDD/PCDF congener represents the TEQ concentration for a sample.

The following table identifies each soil sample selected for PCDD/PCDF analysis, its rationale for selection, and its calculated TEQ concentration in micrograms per kilogram (ug/kg).

Sample ID	Sample Location and Basis	TEQ (ug/kg) ¹
CCTP-N1-2 (0 - 0.5 ft)	Surficial soils; downstream-most transect – first “clean” test pit west of creek	0.30
CCTP-S1-1 (0 - 0.5 ft)	Surficial soils; downstream-most transect – first “clean” test pit east of creek	0.23
CCTP-S2-1 (11.5 - 12 ft)	Subsurface soils; 6-inch interval below visibly impacted material	0.00023
CCTP-S4-2 (11 - 11.5 ft)	Subsurface soils; 6-inch interval below visibly impacted material	0.00031
CCTP-N7-1 (16.5 - 17 ft)	Subsurface soils; 6-inch interval below visibly impacted material	0.00028
CCTP-N8-1 (0 - 0.5 ft)	Surficial soils; transect midway between railroad crossing and drainage ditch – first “clean” test pit west of creek	0.13 [0.092] ²
CCTP-S8-2 (0 - 0.5 ft)	Surficial soils; transect midway between railroad crossing and drainage ditch – first “clean” test pit east of creek	0.077
CCTP-S20-2 (4 - 4.5 ft)	Subsurface soils; 6-inch interval below visibly impacted material	0.00024
CCTP-S20-3 (5.5 - 6 ft)	Subsurface soils; 6-inch interval below visibly impacted material	0.00021
CCTP-S22-3 (8.5 - 9 ft)	Subsurface soils; 6-inch interval below visibly impacted material	0.00029

Notes:

1. One-half the analytical detection limit was used for non-detect results when calculating the TEQ concentrations.
2. Duplicate results presented in brackets.

As indicated in the table above, TEQ concentrations for the surficial floodplain soil samples ranged from 0.077 to 0.30 ug/kg (with an average of 0.17 ug/kg). TEQ concentrations for the subsurface floodplain soil samples ranged from 0.00021 to 0.00031 ug/kg (with an average of 0.00026 ug/kg). These results are all well below the 1.0 ug/kg human-health guideline recommended by the USEPA for residential soils (USEPA, 1998).

In October 1999, 15 other soil samples were collected from the Crawford Creek floodplain and analyzed for PCDDs/PCDFs. The locations of these samples are shown on Figure 2 and TEQ concentrations are presented in Table 3. Table 3 also summarizes the available floodplain soil samples (i.e., both the

October 1999 and February 2003 samples), their TEQ concentration, and visual classification. Visual classifications of floodplain soil samples were based on the following criteria:

- A – Oily product was observed;
- B – Odor, staining, and/or oil sheen (but no product) were observed; or
- C – No product, odor, staining, or oil sheen were observed.

As indicated in Table 3, a total of 26 soil samples have been collected from the Crawford Creek floodplain. Of these, three were classified as Type A, one as Type B, and 22 as Type C. The average TEQ concentration for the Type A samples is 0.045 ug/kg, while the average TEQ concentration for the Type C samples is 0.077 ug/kg. The TEQ concentration of the one Type B sample was 0.00023 ug/kg.

Based on the available visual classifications and PCDD/PCDF data that have been collected for the Crawford Creek floodplain soils, the following observations can be made:

Type A materials do not have significantly elevated TEQ concentrations relative to other samples. This indicates that the suspected source materials (i.e., wood-treating compounds released to the floodplain area) did not contain elevated levels of PCDDs/PCDFs.

- The number of Type C samples analyzed for PCDDs/PCDFs (22) is much greater than the number of Type A (3) and Type B (1) samples analyzed. As a result, the range of concentrations detected in Type C materials was greater than the range detected in Type A and B materials.

While visual soil classifications do not appear to be an accurate indicator of the relative TEQ concentrations, sampling performed throughout the floodplain does not indicate the presence of PCDDs/PCDFs at significant levels. In fact, regardless of the visual classification or depth from which samples were collected, all Crawford Creek floodplain soil samples exhibit TEQ concentrations well below the 1 ug/kg USEPA guidance value for residential soils (USEPA, 1998).

IV. Follow-up Activities

To verify that adequate vegetation has been re-established in disturbed areas of the Crawford Creek floodplain and to assess any erosion and/or floodplain stability issues that may have resulted from the test pit activities, a field reconnaissance was conducted by BBL personnel on May 19, 2003. At the time of the field reconnaissance, certain portions of the Crawford Creek floodplain were flooded and, as a result, not all test pit locations could be observed. Where available for inspection, the test pits were observed to be in good condition, with vegetation beginning to become re-established. Excessive erosion within or beyond the limits of the test pits was not observed. Based on these observations, the test pits are expected to become fully revegetated over the course of the 2003 growing season.

In addition to the reconnaissance, the Crawford Creek sediment sampling that was originally proposed in the July 25, 2001 Work Plan was also conducted in May 2003. As indicated in Section I, the sediment sampling could not be performed during February 2003 due to frozen surface water and sediment conditions present in Crawford Creek. A separate letter report summarizing the scope and findings of the sediment sampling will be submitted to the WDNR following receipt and validation of the analytical data.

The results of the Crawford Creek floodplain investigation activities summarized herein will be used during future identification, evaluation, and selection of appropriate remedial alternatives for this area of the Site.

Please feel free to call me (860-653-9101) or Ms. Jane Patacity of Beazer (412-208-8813) with any questions or comments regarding the information presented herein.

Sincerely,

BLASLAND, BOUCK & LEE, INC.

David Bessingue
For

Jeffrey S. Holden, P.E.
Manager

DGB/csc
Enclosure

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cc: Steve LaValley, WDNR
Mark Gordon, WDNR
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Jane Patacity, Beazer
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Patrick Stark, Koppers
Tim Ries, Koppers
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Tables

Table 1

Beazer East, Inc.
Koppers Superior, Wisconsin Facility

Crawford Creek Floodplain Test Pit Observations

Test Pit ID	"Clean" ¹	Black Stained Layer ²	Isolated Seams of Creosote-Like Product ³	Total Depth
CCTP-N1-1			5-7'	11'
CCTP-N1-2	X			5'
CCTP-N1-3	X			5'
CCTP-S1-1	X			5'
CCTP-S1-2	X			5'
CCTP-N2-1		1-3.5	3.5-7	10'
CCTP-N2-2	X			7.5'
CCTP-N2-3	X			6'
CCTP-S2-1		1-2.5'	2.5-9'	12'
CCTP-S2-2			7-8'	11'
CCTP-S2-3	X			6.5'
CCTP-N3-1			5-12'	12'
CCTP-N3-2		1-1.5'		9'
CCTP-N3-3		0.5-1.5'	1.5-12'	12'
CCTP-N3-4			0-6.5'	9'
CCTP-S3-1		2-4'	4-12'	14'
CCTP-S3-2			4-9'	11'
CCTP-N4-1			4-8'	13'
CCTP-N4-2	X			9'
CCTP-N4-3	X			8.5'
CCTP-S4-1		2.5-4'	4-8.5'	13'
CCTP-S4-2			4-9'	11.5
CCTP-N5-1		2-7'	7-11'	13.5'
CCTP-N5-2	X			12'
CCTP-N5-3	X			9'
CCTP-N6-1	X			11'
CCTP-N6-2	X			8.5'
CCTP-S6-1		2-4'	4-15'	15'
CCTP-S6-2	X			11'
CCTP-S6-3	X			9'
CCTP-N7-1		2-3.5'	3.5-15'	17'
CCTP-N7-2	X			10'
CCTP-N7-3	X			9'
CCTP-N8-1	X			9'
CCTP-N8-2	X			8'
CCTP-S8-1		3-5'	5-15.5'	15.5'
CCTP-S8-2	X			10'
CCTP-S8-3	X			10'
CCTP-N9-1		2-3.5'	3.5-15'	15'
CCTP-N9-2	X			12'
CCTP-N9-3	X			10'
CCTP-N10-1	X			9'
CCTP-N10-2	X			8.5'
CCTP-N11-1		2.5-4'	4-7.5'	12'
CCTP-N11-2	X			9'
CCTP-N11-3	X			8.5'
CCTP-S11-1		2.5-5'	5-17'	17'
CCTP-S11-2	X			11.5'
CCTP-S11-3	X			9.5'
CCTP-N12-1	X			11'
CCTP-N12-2	X			10.5'
CCTP-N13-1	X			10.5'
CCTP-N13-2	X			9'

Table 1

Beazer East, Inc.
Koppers Superior, Wisconsin Facility

Crawford Creek Floodplain Test Pit Observations

Test Pit ID	"Clean" ¹	Black Stained Layer ²	Isolated Seams of Creosote-Like Product ³	Total Depth
CCTP-S13-1	X			9.5'
CCTP-S13-2	X			9.5'
CCTP-N14-1		3-6'		13'
CCTP-N14-2	X			9'
CCTP-N14-3	X			9'
CCTP-N15-1	X			10'
CCTP-N15-2	X			9'
CCTP-S15-1	X			9.5'
CCTP-S15-2	X			10'
CCTP-N16-1	X			9'
CCTP-N16-2	X			7.5'
CCTP-S16-1	X			9'
CCTP-S16-2	X			10'
CCTP-N17-1	X			10'
CCTP-N17-2	X			10'
CCTP-S17-1	X			10'
CCTP-S17-2	X			10'
CCTP-N18-1	X			9'
CCTP-N18-2	X			9'
CCTP-S18-1	X			8.5'
CCTP-S18-2	X			9'
CCTP-S18-3	X			8'
CCTP-S19-1	X			10'
CCTP-S19-2	X			10'
CCTP-N20-1	X			9'
CCTP-N20-2	X			9'
CCTP-S20-1	X			9'
CCTP-S20-2		2-3.5'		12'
CCTP-S20-3		1.8-2.2'	4.9-5.1'	12'
CCTP-S20-4	X			10'
CCTP-S20-5	X			9'
CCTP-N21-1	X			10'
CCTP-N21-2	X			9'
CCTP-S21-1		1.5-2'	5-5.2'	10.5'
CCTP-S21-2		2-3'	7-9'	13'
CCTP-S21-3		2-3'	7-9'	11.5'
CCTP-S21-4		2-3'		9'
CCTP-N22-1	X			8.5'
CCTP-N22-2	X			9'
CCTP-S22-1		2-3'		14'
CCTP-S22-2		2-4'	4-11'	13'
CCTP-S22-3		3-5'	5-8'	13'
CCTP-S22-4		2-3'	3-10'	12'
CCTP-N23-1	X			10'
CCTP-S23-1		2-3.5'	8-10'	13'
CCTP-S23-2		2-4'	4-5'	11'
CCTP-S23-3		2-5'	5-11'	14'
CCTP-S23-4		1-5'	5-14'	14'
CCTP-N24-1	X			10'
CCTP-N24-2	X			10'
CCTP-S24-1		3-5'	5-14'	16'
CCTP-S24-2		2-5'	5-15'	15'
CCTP-S24-3		1-3'	3-8'	14'

Table 1

Beazer East, Inc.
Koppers Superior, Wisconsin Facility

Crawford Creek Floodplain Test Pit Observations

Test Pit ID	"Clean" ¹	Black Stained Layer ²	Isolated Seams of Creosote-Like Product ³	Total Depth
CCTP-S24-4		0.5-5'	5-11'	14'
CCTP-S25-1	X			12'
CCTP-S25-2	X			14'
CCTP-S25-3		3-8'	3-11'	14'
CCTP-S26-1	X			11'
CCTP-S27-1	X			11'
CCTP-S27-2	X			10'

Notes:

1. "Clean" refers to test pits in which no visibly impacted materials were observed.
2. Values in this column indicate depth interval within a given test pit where a layer of black stained silty sand material was observed. The black stained layer was continuous within the specified depth interval.
3. Values in this column indicate depth intervals within a given test pit where isolated seams of creosote-like product were observed. Note that seams of product were not continuous throughout the interval. Rather, seams were observed in isolated, discrete locations within the interval and were attributed to locations where creosote-like product had come to be present in isolated fractures within the clay matrix.

Table 2

Beazer East, Inc.
Koppers Superior, Wisconsin Facility

Summary of Crawford Creek Floodplain Soil Sample Analytical Results (ug/kg dry weight)

Constituent	CCTP-N1-2 0 - 0.5 feet 2/17/2003	CCTP-N7-1 16.5 - 17 feet 2/19/2003	CCTP-N8-1 0 - 0.5 feet 2/19/2003	CCTP-S1-1 0 - 0.5 feet 2/17/2003	CCTP-S2-1 11.5 - 12 feet 2/17/2003
Polychlorinated Dibenzo-p-Dioxins (PCDDs)¹					
2,3,7,8-TCDD	ND (0.00076 EMPC)	ND (0.00012)	ND (0.00066 EMPC) / ND (0.0006 EMPC)	ND (0.00066 EMPC)	ND (0.00012)
Total TCDD	0.0049	0.02	0.0021 / 0.0035	0.0098	0.0017
1,2,3,7,8-PeCDD	0.01	ND (0.00024)	0.0058 J / 0.0039 J	0.0079	ND (0.00018)
Total PeCDD	0.044	0.0075	0.028 / 0.013	0.044	ND (0.0014 EMPC)
1,2,3,4,7,8-HxCDD	0.043	ND (0.00016)	0.02 / 0.014	0.03	ND (0.00013)
1,2,3,6,7,8-HxCDD	0.46	ND (0.00014)	0.17 / 0.12	0.31	ND (0.00013)
1,2,3,7,8,9-HxCDD	0.058	ND (0.00014)	0.029 / 0.028	0.053	ND (0.00018 EMPC)
Total HxCDD	1.8	ND (0.0035)	0.84 / 0.54	1.4	ND (0.00069 EMPC)
1,2,3,4,6,7,8-HpCDD	13 EJ	ND (0.0011 EMPC)	4.8 EJ / 3.4 EJ	8.1 EJ	ND (0.00061 EMPC)
Total HpCDD	25	ND (0.0011)	10 / 7	16	ND (0.00061 EMPC)
OCDD	160 DJ	0.0091 J	64 DJ / 43 DJ	130 DEJ	ND (0.0038 EMPC)
Polychlorinated Dibenzofurans (PCDFs)¹					
2,3,7,8-TCDF	0.00096 J	ND (0.000063)	0.0019 / 0.0018	0.0044	ND (0.000097)
Total TCDF	0.011	ND (0.00011)	0.0076 / 0.0051	0.013	ND (0.00016 EMPC)
1,2,3,7,8-PeCDF	0.0087	ND (0.000079)	0.013 / 0.011	0.033	ND (0.00011 EMPC)
2,3,4,7,8-PeCDF	0.015	ND (0.000077)	0.015 / 0.011	0.032	ND (0.000089)
Total PeCDF	0.29	ND (0.00015)	0.19 / 0.11	0.4	ND (0.00015)
1,2,3,4,7,8-HxCDF	0.29	ND (0.0002)	0.19 / 0.12	0.34	ND (0.00012 EMPC)
1,2,3,6,7,8-HxCDF	0.067	ND (0.00018)	0.037 / 0.021	0.066	ND (0.0001)
2,3,4,6,7,8-HxCDF	0.029	ND (0.00021)	0.02 / 0.015	0.039	ND (0.0001)
1,2,3,7,8,9-HxCDF	ND (0.003 EMPC)	ND (0.00024)	0.0057 J / 0.0043 J	0.015	ND (0.00011)
Total HxCDF	5.2	ND (0.00024)	2.5 / 1.7	5	ND (0.00018 EMPC)
1,2,3,4,6,7,8-HpCDF	3.8 EJ	ND (0.00071)	1.2 / 0.92	2.3	ND (0.00035 EMPC)
1,2,3,4,7,8,9-HpCDF	0.29	ND (0.00089)	0.16 / 0.11	0.29	ND (0.00009 EMPC)
Total HpCDF	21	ND (0.00089)	6.8 / 4.9	13	ND (0.00039 EMPC)
OCDF	23 D	ND (0.0015 EMPC)	5.8 D / 3.6 D	12 D	ND (0.00049 EMPC)
PCDD/PCDF TEQ ²	0.30	0.00028	0.13 / 0.092	0.23	0.00023

(See notes on Page 3)

Table 2

Beazer East, Inc.
Koppers Superior, Wisconsin Facility

Summary of Crawford Creek Floodplain Soil Sample Analytical Results (ug/kg dry weight)

Constituent	CCTP-S4-2 11 - 11.5 feet 2/18/2003	CCTP-S8-2 0 - 0.5 feet 2/19/2003	CCTP-S20-2 4 - 4.5 feet 2/21/2003	CCTP-S20-3 5.5 - 6 feet 2/24/2003	CCTP-S22-3 8.5 - 9 feet 2/24/2003
Polychlorinated Dibenzo-p-Dioxins (PCDDs)¹					
2,3,7,8-TCDD	ND (0.000066)	0.0014 J	ND (0.000071)	ND (0.000086)	ND (0.00011)
Total TCDD	ND (0.00071 EMPC)	0.011	ND (0.00061)	0.0012	0.00081
1,2,3,7,8-PeCDD	ND (0.00019)	ND (0.0033 EMPC)	ND (0.00023)	ND (0.00018)	ND (0.00028)
Total PeCDD	ND (0.00054)	0.0089	ND (0.0021)	ND (0.0024)	ND (0.0013)
1,2,3,4,7,8-HxCDD	ND (0.00021)	0.011	ND (0.00014)	ND (0.00014)	ND (0.00017)
1,2,3,6,7,8-HxCDD	ND (0.00019)	0.11	ND (0.00013 EMPC)	ND (0.00014)	ND (0.00016)
1,2,3,7,8,9-HxCDD	ND (0.00019)	0.023	ND (0.00014 EMPC)	ND (0.00014)	ND (0.00015)
Total HxCDD	ND (0.00035)	0.51	ND (0.0019)	ND (0.0017)	ND (0.00087)
1,2,3,4,6,7,8-HpCDD	ND (0.00059 EMPC)	3.9 EJ	ND (0.0024 EMPC)	ND (0.0015 EMPC)	ND (0.0019 EMPC)
Total HpCDD	ND (0.00059)	8.1	ND (0.0025)	ND (0.0015)	ND (0.0019)
OCDD	ND (0.0052 EMPCJ)	39 EJ	0.0085 J	ND (0.0054 EMPC)	ND (0.0037 EMPCJ)
Polychlorinated Dibenzofurans (PCDFs)¹					
2,3,7,8-TCDF	ND (0.000087)	ND (0.00054)	ND (0.00063)	ND (0.00064)	ND (0.000084 EMPC)
Total TCDF	ND (0.00087)	0.0097	ND (0.00028)	ND (0.0004)	ND (0.00028)
1,2,3,7,8-PeCDF	ND (0.00011)	ND (0.0014 EMPC)	ND (0.00011 EMPC)	ND (0.000099)	ND (0.00011)
2,3,4,7,8-PeCDF	ND (0.00011)	ND (0.0021 EMPC)	ND (0.00065)	ND (0.00077)	ND (0.00011)
Total PeCDF	ND (0.00015)	0.038	ND (0.00031)	ND (0.00036)	ND (0.00012)
1,2,3,4,7,8-HxCDF	ND (0.00037)	0.044 J	ND (0.00014 EMPC)	ND (0.00015 EMPC)	ND (0.00013)
1,2,3,6,7,8-HxCDF	ND (0.00083 EMPC)	0.011	ND (0.0001)	ND (0.00088)	ND (0.00011)
2,3,4,6,7,8-HxCDF	ND (0.00039)	0.004 J	ND (0.00012)	ND (0.0001)	ND (0.00013)
1,2,3,7,8,9-HxCDF	ND (0.00044)	ND (0.00041 EMPC)	ND (0.00013)	ND (0.00012)	ND (0.00015)
Total HxCDF	ND (0.0013)	0.97	ND (0.00031)	ND (0.00038)	ND (0.00031)
1,2,3,4,6,7,8-HpCDF	ND (0.00073)	0.94	ND (0.00075)	ND (0.0005)	ND (0.00048 EMPC)
1,2,3,4,7,8,9-HpCDF	ND (0.00092)	0.057	ND (0.00094)	ND (0.00044)	ND (0.00049)
Total HpCDF	ND (0.00092)	5.1	ND (0.00094)	ND (0.00071)	ND (0.00066)
OCDF	ND (0.00058 EMPCJ)	5.4	ND (0.00075 EMPC)	ND (0.00039 EMPC)	ND (0.00042 EMPC)
PCDD/PCDF TEQ ²	0.00031	0.077	0.00024	0.00021	0.00029

(See notes on Page 3)

Table 2

Beazer East, Inc.
Koppers Superior, Wisconsin Facility

Summary of Crawford Creek Floodplain Soil Sample Analytical Results (ug/kg dry weight)

Notes:

ND = Non-detect (detection limit in parentheses)

EMPC = Estimated maximum possible concentration

E = Result exceeded calibration range

J = Estimated value

D = Result obtained from analysis of a dilution

TEQ = Toxicity Equivalence (See note 2)

/ = Separates original and duplicate analytical results

1. PCDD/PCDF analyses performed by Severn Trent Laboratories, Inc. of West Sacramento, California using USEPA SW-846 Method 8290.

2. TEQ values calculated by assigning each PCDD/PCDF congener a Toxic Equivalency Factor (TEF) according to its toxicity relative to 2,3,7,8-TCDD (ranging from 0.0001 to 1.0; WHO, 1998). The concentration of each congener (1/2 detection limit for non-detect values) is multiplied by its respective TEF. The sum of these values is the TEQ for the sample.

Table 3

Beazer East, Inc.
Koppers Superior, Wisconsin Facility

Correlation Between Visible Impacts and TEQ Concentrations

Sample ID	Depth (feet)	Date	Visual Classification ¹	TEQ (ug/kg) ²
October 1999 Samples				
FP15-50'R	1.2-2.2	10/22/1999	A	0.065
FP34-5'L	1.5-2.5	10/21/1999	A	0.041
FP34-5'L (DUP)	1.5-2.5	10/21/1999	A	0.029
T18-A	0-0.5	10/22/1999	C	0.005
T18-B	0-0.5	10/22/1999	C	0.004
T18-D	0-0.5	10/22/1999	C	0.014
T18-E	0-0.5	10/22/1999	C	0.058
T29-A	0-0.5	10/22/1999	C	0.032
T29-B	0-0.5	10/22/1999	C	0.232
T29-D	0-0.5	10/22/1999	C	0.032
T29-E	0-0.5	10/22/1999	C	0.015
T34-A	0-0.5	10/22/1999	C	0.026
T34-B	0-0.5	10/22/1999	C	0.310
T34-D	0-0.5	10/22/1999	C	0.082
T34-E	0-0.5	10/22/1999	C	0.054
February 2003 Samples				
CCTP-N1-2	0-0.5	2/17/2003	C	0.302
CCTP-N7-1	16.5-17	2/19/2003	C	0.00028
CCTP-N8-1	0-0.5	2/19/2003	C	0.130
CCTP-N8-1 (DUP)	0-0.5	2/19/2003	C	0.092
CCTP-S1-1	0-0.5	2/17/2003	C	0.233
CCTP-S2-1	11.5-12	2/17/2003	B	0.00023
CCTP-S4-2	11-1.5	2/18/2003	C	0.00031
CCTP-S8-2	0-0.5	2/19/2003	C	0.0774
CCTP-S20-2	4-4.5	2/21/2003	C	0.00024
CCTP-S20-3	5.5-6	2/24/2003	C	0.00021
CCTP-S22-3	8.5-9	2/24/2003	C	0.00029
Type A	Number of Samples:			3
	Minimum TEQ (ug/kg):			0.029
	Maximum TEQ (ug/kg):			0.065
	Average TEQ (ug/kg):			0.045
Type B	Number of Samples:			1
	Minimum TEQ (ug/kg):			0.00023
	Maximum TEQ (ug/kg):			0.00023
	Average TEQ (ug/kg):			0.00023
Type C	Number of Samples:			22
	Minimum TEQ (ug/kg):			0.00021
	Maximum TEQ (ug/kg):			0.310
	Average TEQ (ug/kg):			0.077

Notes:

TEQ = Toxicity Equivalence (See note 2)

1. Visual classifications based on the following:

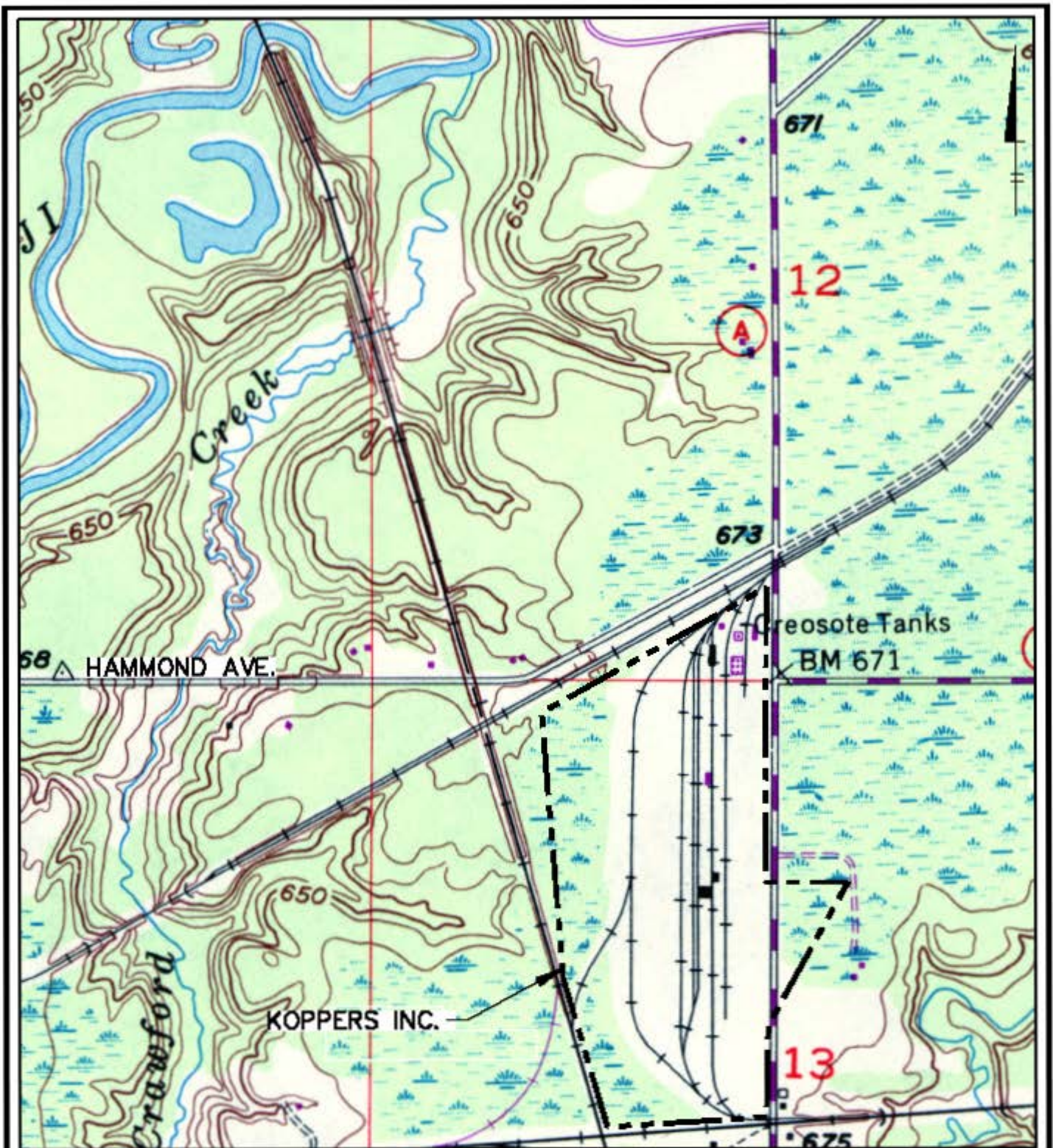
A = Oily product observed in sample

B = Odor, staining, or oil sheen (but no product) observed in sample

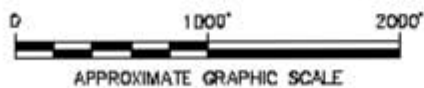
C = No product, odor, staining, or oil sheen observed in sample

2. TEQ values calculated by assigning each PCDD/PCDF congener a Toxic Equivalency Factor (TEF) according to its toxicity relative to 2,3,7,8-TCDD (ranging from 0.0001 to 1.0; WHO, 1998). The concentration of each congener (1/2 detection limit for non-detect values) is multiplied by its respective TEF. The sum of these values is the TEQ for the sample.

Figures



BASE MAP SOURCE: USGS 7.5 MIN TOPO QUAD., SUPERIOR, WS.-MINN., 1954 (PHOTO REVISED 1993)



LEGEND

--- APPROXIMATE PROPERTY LINE

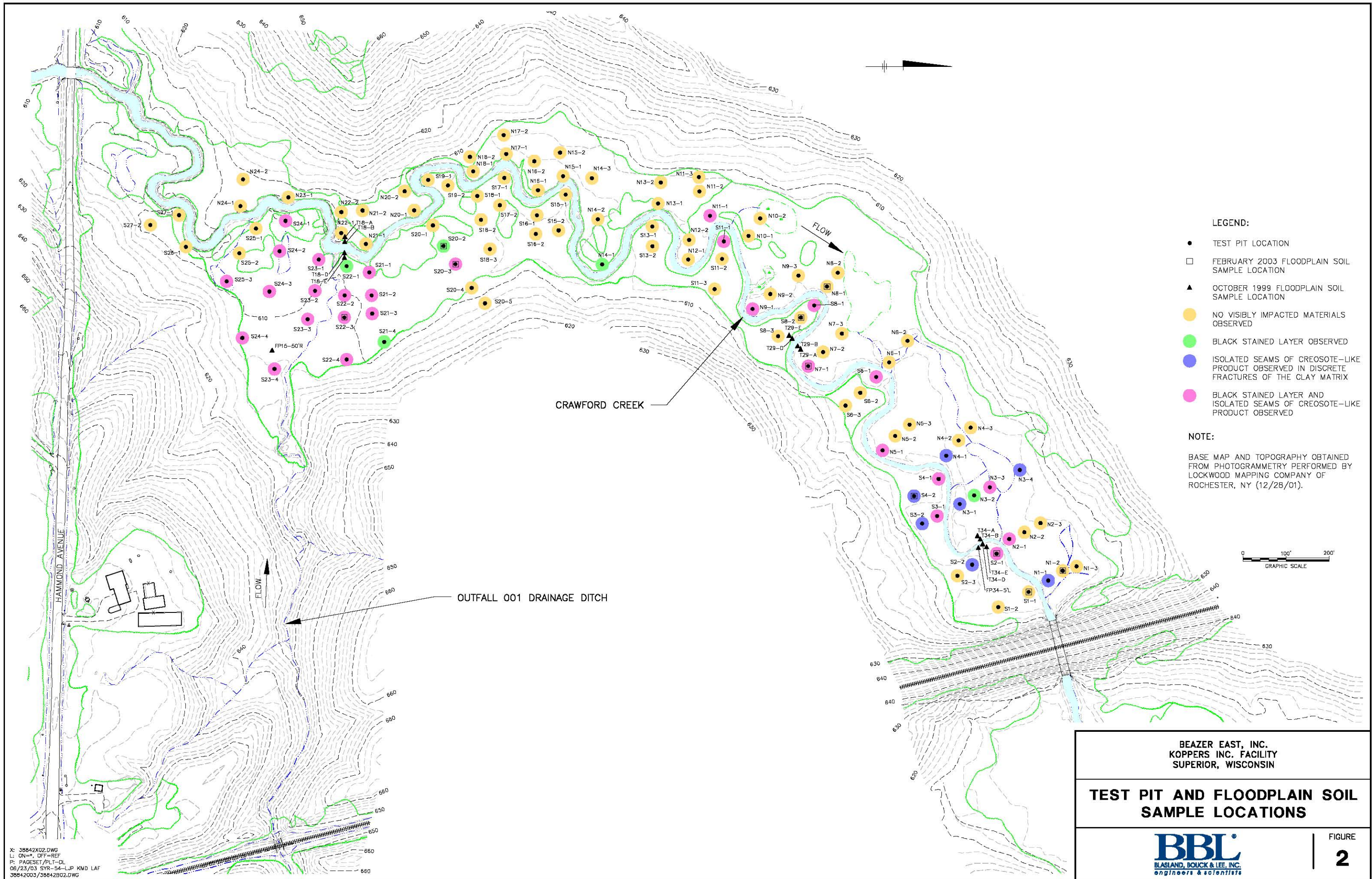
BEAZER EAST, INC.
KOPPERS INC. FACILITY
SUPERIOR, WISCONSIN

SITE LOCATION MAP



FIGURE
1

X: 38842902.TIF
L: 01-01, OFF-REF
P: PAGESET/AP
Q8/23/03 STR-NE3 KWD LAF
38842003/38842903.DWG



X: 38842X02.DWG
 L: ON=1 OFF=REF
 P: PAGESET/PLT-DL
 06/23/03 SYR-54-LJP KMD LAF
 38842003/38842B02.DWG

Attachments

Attachment A

Test Pit Logs

**Beazer East, Inc.
Koppers Superior, Wisconsin Facility**


Test Pit Log Definitions

Black stained silty sand: Within a specified interval, a continuous layer of black stained silty sand material was observed.

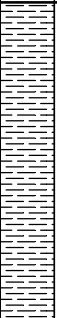
Isolated seams of creosote-like product: Within a specified interval, isolated seams of creosote-like product were observed in discrete fractures in the clay matrix.


Date Start/Finish: 2/17/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 549211.55 Easting: 1446786.41 Elevation: 605.74' Test Pit Depth: 11' bgs Field Person (s): Gregg Rabasco	Test Pit No. CCTP-N1-1 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
0								
605							Light brown CLAY with Organics, odor.	
5		1	0-11	NA			Isolated seams of creosote-like product, odor from 5.0' - 7.0' bgs.	
600							Brown CLAY with Organics.	
10								
595								
15								
590								

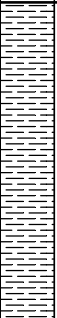
 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/17/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 549245.00 Easting: 1446763.76 Elevation: 605.27' Test Pit Depth: 5.0' bgs Field Person (s): Gregg Rabasco	Test Pit No. CCTP-N1-2 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
0	605	1	0-5	NA	X		Brown CLAY with Organics.	
5	600							
10	595							
15	590							

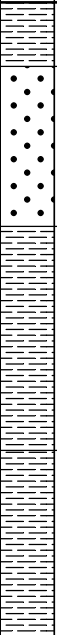
 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available. Sample collected from 0 - 0.5' bgs for PCDDs/PCDFs (Method 8290).
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Date Start/Finish: 2/17/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 549277.26 Easting: 1446753.63 Elevation: 605.17' Test Pit Depth: 5.0' bgs Field Person (s): Gregg Rabasco	Test Pit No. CCTP-N1-3 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
0	605	1	0-5	NA			Brown CLAY with Organics.	
5	600							
10	595							
15	590							

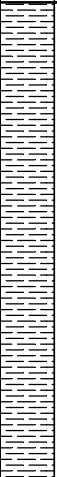
 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/17/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 549120.95 Easting: 1446690.21 Elevation: 605.30' Test Pit Depth: 10' bgs Field Person (s): Gregg Rabasco	Test Pit No. CCTP-N2-1 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
0	605							
5	600	1		NA			Brown CLAY. Black stained Silty SAND, odor. Brown CLAY with isolated seams of creosote-like product, odor. Brown CLAY, some Organics, odor, sheening.	
10	595		0-10					
15	590							

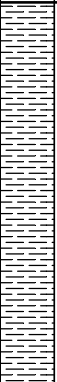
 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/17/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 549156.01 Easting: 1446674.35 Elevation: 606.29' Test Pit Depth: 7.5' bgs Field Person (s): Gregg Rabasco	Test Pit No. CCTP-N2-2 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
0								
605		1	0-7.5	NA			Red-brown CLAY.	
5								
600								
10								
595								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
--	--


Date Start/Finish: 2/17/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 549193.62 Easting: 1446653.01 Elevation: 605.75' Test Pit Depth: 6.0' bgs Field Person (s): Gregg Rabasco	Test Pit No. CCTP-N2-3 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
0								
	605	1	0-6	NA			Red-brown CLAY.	
5	600							
10	595							
15	590							

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/18/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 549006.11 Easting: 1446608.73 Elevation: 606.78' Test Pit Depth: 12' bgs Field Person (s): Gregg Rabasco	Test Pit No. CCTP-N3-1 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
0								
605							Red-brown CLAY.	
5		1	0-12	NA			Brown Silty CLAY, some Organic material, isolated seams of creosote-like product, odor.	
600								
10								
595								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
--	--


Date Start/Finish: 2/18/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 549039.47 Easting: 1446588.98 Elevation: 605.70' Test Pit Depth: 9.0' bgs Field Person (s): Gregg Rabasco	Test Pit No. CCTP-N3-2 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
0								
605							Brown CLAY. Black stained Silty SAND, odor. Brown Silty CLAY.	
5	600	1	0-9	NA				
10	595							
15	590							

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
--	--


Date Start/Finish: 2/18/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 549076.04 Easting: 1446569.90 Elevation: 605.20' Test Pit Depth: 12' bgs Field Person (s): Gregg Rabasco	Test Pit No. CCTP-N3-3 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
0	605						Brown CLAY. Black stained Silty SAND, odor. Brown Silty CLAY with isolated seams of creosote-like product, odor.	
5	600	1	0-12	NA				
10	595							
15	590							

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/18/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 549145.54 Easting: 1446529.76 Elevation: 605.50' Test Pit Depth: 9.0' bgs Field Person (s): Gregg Rabasco	Test Pit No. CCTP-N3-4 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
0								
	605						Brown and gray-brown CLAY, isolated seams of creosote-like product, odor.	
5	600	1	0-12	NA			Red-brown CLAY.	
10	595							
15	590							

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
--	--


Date Start/Finish: 2/18/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 548974.48 Easting: 1446496.56 Elevation: 606.88' Test Pit Depth: 13' bgs Field Person (s): Gregg Rabasco	Test Pit No. CCTP-N4-1 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
0								
605							Red-brown CLAY.	
5							Brown Silty CLAY with isolated seams of creosote-like product, odor.	
600		1	0-13	NA			Brown Silty CLAY.	
10								
595								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
--	--


Date Start/Finish: 2/18/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 549003.56 Easting: 1446461.25 Elevation: 605.52' Test Pit Depth: 9.0' bgs Field Person (s): Gregg Rabasco	Test Pit No. CCTP-N4-2 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
0								
	605						Brown CLAY.	
5	600	1	0-9	NA				
10	595							
15	590							



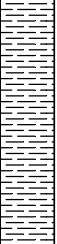
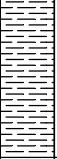
 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
--	--


Date Start/Finish: 2/18/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 549031.51 Easting: 1446431.61 Elevation: 605.35' Test Pit Depth: 8.5' bgs Field Person (s): Gregg Rabasco	Test Pit No. CCTP-N4-3 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
0	605							
5	600	1	0-8.5	NA		[Hatched Pattern]	Brown CLAY.	
						[Hatched Pattern]	Red-brown CLAY.	
10	595							
15	590							

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
--	--


Date Start/Finish: 2/18/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 548826.74 Easting: 1446484.37 Elevation: 606.08'	Test Pit No. CCTP-N5-1 Client: Beazer East, Inc.
	Test Pit Depth: 13.5' bgs Field Person (s): Gregg Rabasco	Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
0								
605							Brown CLAY.	
5							Black stained Silty SAND, odor.	
600		1	0-13.5	NA			Brown CLAY with isolated seams of creosote-like product, odor.	
10							Red-brown CLAY.	
595								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/18/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 548856.17 Easting: 1446450.83 Elevation: 606.54' Test Pit Depth: 12' bgs Field Person (s): Gregg Rabasco	Test Pit No. CCTP-N5-2 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
0								
605							Red-brown CLAY.	
5		1	0-12	NA			Brown CLAY, slight odor.	
600								
10								
595								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/18/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 548889.56 Easting: 1446424.58 Elevation: 606.61' Test Pit Depth: 9.0' bgs Field Person (s): Gregg Rabasco	Test Pit No. CCTP-N5-3 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
0								
605							Red-brown CLAY.	
5		1	0-9	NA			Brown CLAY.	
600								
10								
595								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/18/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 548841.99 Easting: 1446280.16 Elevation: 605.73' Test Pit Depth: 11' bgs Field Person (s): Gregg Rabasco	Test Pit No. CCTP-N6-1 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
0								
5	605	1	0-11	NA			Brown Silty CLAY.	
10	600							
15	595							
	590							



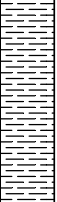

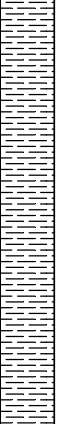

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/18/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 548884.94 Easting: 1446230.35 Elevation: 606.33' Test Pit Depth: 8.5' bgs Field Person (s): Gregg Rabasco	Test Pit No. CCTP-N6-2 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
0								
605		1	0-8.5	NA		[Hatched Pattern]	Red-brown CLAY.	
5								
600								
10								
595								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/19/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 548654.27 Easting: 1446288.93 Elevation: 607.29' Test Pit Depth: 17' bgs Field Person (s): Gregg Rabasco	Test Pit No. CCTP-N7-1 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
610								
0							Brown CLAY.	
605							Black stained Silty SAND, odor.	
5							Brown CLAY with isolated seams of creosote-like product, odor.	
600		1	0-17	NA			Organics (Wood pieces) from 7.0' - 9.0' bgs.	
10								
595							Red-brown CLAY.	
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available. Sample collected from 16.5' - 17' bgs for PCDDs/PCDFs (Method 8290).
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Client:

Beazer East, Inc.

Test Pit No. CCTP-N7-1**Site Location:**Koppers Wood-Treating
Facility
Crawford Creek Floodplain**Borehole Depth:** 17' bgs


DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
		1	0-17	NA	×		Red-brown CLAY.	
590								
20								
585								
25								
580								
30								
575								
35								



Remarks: bgs = below ground surface; NA = Not Applicable/Available.
Sample collected from 16.5' - 17' bgs for PCDDs/PCDFs (Method 8290).


Date Start/Finish: 2/19/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 548688.52 Easting: 1446256.24 Elevation: 607.33' Test Pit Depth: 10' bgs Field Person (s): Gregg Rabasco	Test Pit No. CCTP-N7-2 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
610								
0							Brown SILT and CLAY.	
605							Brown and red-brown CLAY.	
5		1	0-10	NA				
600								
10								
595								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/19/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 548732.33 Easting: 1446213.38 Elevation: 607.28' Test Pit Depth: 9.0' bgs Field Person (s): Gregg Rabasco	Test Pit No. CCTP-N7-3 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
610								
0								
605		1	0-9	NA			Brown Silty CLAY.	
5								
600								
10								
595								
15								

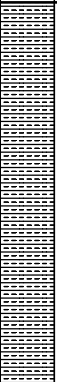
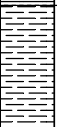
	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/19/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 548697.68 Easting: 1446104.34 Elevation: 608.13' Test Pit Depth: 9.0' bgs Field Person (s): Gregg Rabasco	Test Pit No. CCTP-N8-1 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
610								
0					X		Brown SILT and CLAY.	
605		1	0-9	NA			Brown and red-brown CLAY.	
5								
600								
10								
595								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available. Sample collected from 0 - 0.5' bgs for PCDDs/PCDFs (Method 8290). Duplicate Sample CCTP-DUP-1 collected fro 0 - 0.5' bgs.
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Date Start/Finish: 2/19/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 548722.91 Easting: 1446072.31 Elevation: 606.99' Test Pit Depth: 8.0' bgs Field Person (s): Gregg Rabasco	Test Pit No. CCTP-N8-2 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
0								
605		1	0-8	NA			Brown Silty CLAY.	
5							Red-brown CLAY.	
600								
10								
595								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/19/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 548524.94 Easting: 1446156.33 Elevation: 607.22' Test Pit Depth: 15' bgs Field Person (s): Gregg Rabasco	Test Pit No. CCTP-N9-1 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
610								
0							Brown CLAY.	
							Dark brown SILT.	
605							Black stained Silty SAND, odor.	
							Brown Silty CLAY with isolated seams of creosote-like product, odor.	
5								
600		1	0-15	NA				
10								
595								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/19/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 548565.88 Easting: 1446121.73 Elevation: 607.72 Test Pit Depth: 12' bgs Field Person (s): Gregg Rabasco	Test Pit No. CCTP-N9-2 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
610								
0							Brown CLAY.	
							Dark brown SILT and CLAY.	
605							Brown CLAY.	
5		1	0-12	NA				
600								
10								
595								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/19/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 548631.21 Easting: 1446078.97 Elevation: 606.98' Test Pit Depth: 10' bgs Field Person (s): Gregg Rabasco	Test Pit No. CCTP-N9-3 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
0								
5	605	1	0-10	NA			Brown Silty CLAY.	
10	600							
15	595							

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/19/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 548515.66 Easting: 1445986.57 Elevation: 607.53' Test Pit Depth: 9.0' bgs Field Person (s): Gregg Rabasco	Test Pit No. CCTP-N10-1 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
610								
0								
605		1	0-9	NA		[Hatched Pattern]	Brown Silty CLAY.	
5								
600								
10								
595								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/19/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 548542.45 Easting: 1445946.18 Elevation: 607.06' Test Pit Depth: 8.5' bgs Field Person (s): Gregg Rabasco	Test Pit No. CCTP-N10-2 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
8.10								
0								
605		1	0-8.5	NA			Brown Silty CLAY.	
5								
600								
10								
595								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/19/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 548426.00 Easting: 1445939.92 Elevation: 607.27' Test Pit Depth: 12' bgs Field Person (s): Gregg Rabasco	Test Pit No. CCTP-N11-1 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
610								
0							Brown Silty CLAY.	
605							Black stained Silty SAND, Organics, odor.	
5		1	0-12	NA			Brown Silty CLAY with isolated seams of creosote-like product, odor.	
600							Brown CLAY.	
10								
595								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/19/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 548401.58 Easting: 1445883.32 Elevation: 607.38' Test Pit Depth: 9.0' bgs Field Person (s): Gregg Rabasco	Test Pit No. CCTP-N11-2 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
610								
0							Brown Silty CLAY.	
605							Brown and dark brown Silty CLAY, some Organics.	
5		1	0-9	NA			Red-brown CLAY.	
600								
10								
595								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/19/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 548400.15 Easting: 1445850.36 Elevation: 607.52' Test Pit Depth: 8.5' bgs Field Person (s): Gregg Rabasco	Test Pit No. CCTP-N11-3 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
610								
0							Brown SILT and CLAY.	
605		1	0-8.5	NA			Red-brown CLAY.	
5								
600								
10								
595								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/20/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 548375.62 Easting: 1446041.33 Elevation: 607.70' Test Pit Depth: 11' bgs Field Person (s): Jason Gutkowski	Test Pit No. CCTP-N12-1 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
610								
0							Brown SILT and CLAY.	
605							Red-brown CLAY.	
5		1	0-11	NA				
600								
10								
595								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/20/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 548377.45 Easting: 1445995.97 Elevation: 607.74' Test Pit Depth: 10.5' bgs Field Person (s): Jason Gutkowski	Test Pit No. CCTP-N12-2 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
610								
0							Brown SILT and CLAY.	
605							Red-brown CLAY.	
5		1	0-10.5	NA				
600								
10								
595								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/20/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 548305.43 Easting: 1445911.43 Elevation: 608.02' Test Pit Depth: 10.5' bgs Field Person (s): Jason Gutkowski	Test Pit No. CCTP-N13-1 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
610								
0							Brown SILT and CLAY.	
605							Red-brown CLAY.	
5		1	0-10.5	NA				
600								
10								
595								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/20/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 548311.75 Easting: 1445862.62 Elevation: 607.74' Test Pit Depth: 9.0' bgs Field Person (s): Jason Gutkowski	Test Pit No. CCTP-N13-2 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
610								
0							Brown SILT and CLAY.	
605		1	0-9	NA			Red-brown CLAY.	
5								
600								
10								
595								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/20/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 548175.68 Easting: 1446052.92 Elevation: 607.89' Test Pit Depth: 13' bgs Field Person (s): Jason Gutkowski	Test Pit No. CCTP-N14-1 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
610								
0							Brown SILT and CLAY.	
605							Black stained Silty SAND, odor.	
5		1	0-13	NA			Red-brown CLAY.	
600								
10								
595								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/20/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 548165.39 Easting: 1445948.03 Elevation: 608.12' Test Pit Depth: 9.0' bgs Field Person (s): Jason Gutkowski	Test Pit No. CCTP-N14-2 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
610								
0							Brown SILT and CLAY.	
605		1	0-9	NA			Brown CLAY.	
5								
600								
10								
595								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/20/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 548151.79 Easting: 1445852.67 Elevation: 608.07' Test Pit Depth: 9.0' bgs Field Person (s): Jason Gutkowski	Test Pit No. CCTP-N14-3 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
610								
0							Brown SILT and CLAY.	
605		1	0-9	NA			Brown and red-brown CLAY.	
5								
600								
10								
595								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/20/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 548084.80 Easting: 1445848.00 Elevation: 608.66' Test Pit Depth: 10' bgs Field Person (s): Jason Gutkowski	Test Pit No. CCTP-N15-1 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
610								
0							Brown SILT and CLAY.	
605							Brown and red-brown CLAY.	
5		1	0-10	NA				
600								
10								
595								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/20/03 Excavating Company: Severson Environmental Services, Inc.	Northing: NA Easting: NA Elevation: NA Test Pit Depth: 9.0' bgs Field Person (s): Jason Gutkowski	Test Pit No. CCTP-N15-2 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
0	0							
5	-5	1	0-9	NA			Brown SILT and CLAY. Brown and red-brown CLAY.	
10-10								
15-15								

	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/20/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 548026.52 Easting: 1445880.74 Elevation: 608.57' Test Pit Depth: 9.0' bgs Field Person (s): Jason Gutkowski	Test Pit No. CCTP-N16-1 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
610								
0							Brown SILT and CLAY.	
605		1	0-9	NA			Brown and red-brown CLAY.	
5								
600								
10								
595								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/20/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 548017.87 Easting: 1445813.33 Elevation: 608.08' Test Pit Depth: 7.5' bgs Field Person (s): Jason Gutkowski	Test Pit No. CCTP-N16-2 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
610								
0							Brown SILT and CLAY.	
605		1	0-7.5	NA			Brown and red-brown CLAY.	
5								
600								
10								
595								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/21/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 547952.77 Easting: 1445796.57 Elevation: 609.22' Test Pit Depth: 10' bgs Field Person (s): Jason Gutkowski	Test Pit No. CCTP-N17-1 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
610								
0							Brown SILT and CLAY.	
605		1	0-10	NA			Red-brown with some dark brown CLAY.	
5								
600								
10								
595								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/21/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 547947.02 Easting: 1445752.76 Elevation: 608.70' Test Pit Depth: 10' bgs Field Person (s): Jason Gutkowski	Test Pit No. CCTP-N17-2 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
610								
0							Brown SILT and CLAY.	
605		1	0-10	NA			Red-brown with some dark brown CLAY.	
5								
600								
10								
595								
15								

	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/21/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 547876.11 Easting: 1445836.98 Elevation: 608.57' Test Pit Depth: 9.0' bgs Field Person (s): Jason Gutkowski	Test Pit No. CCTP-N18-1 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
610								
0							Brown SILT and CLAY.	
605		1	0-9	NA			Red-brown CLAY.	
5								
600								
10								
595								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/21/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 547868.48 Easting: 1445803.25 Elevation: 609.19' Test Pit Depth: 9.0' bgs Field Person (s): Jason Gutkowski	Test Pit No. CCTP-N18-2 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
610								
0							Brown SILT and CLAY.	
605		1	0-9	NA			Red-brown with little dark brown CLAY.	
5								
600								
10								
595								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/21/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 547739.12 Easting: 1445927.27 Elevation: 609.41' Test Pit Depth: 9.0' bgs Field Person (s): Jason Gutkowski	Test Pit No. CCTP-N20-1 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
610								
0							Brown SILT and CLAY.	
605		1	0-9	NA			Red-brown CLAY.	
5								
600								
10								
595								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/21/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 547716.62 Easting: 1445883.09 Elevation: 609.00' Test Pit Depth: 9.0' bgs Field Person (s): Jason Gutkowski	Test Pit No. CCTP-N20-2 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
610								
0							Brown SILT and CLAY.	
605		1	0-9	NA			Red-brown CLAY.	
5								
600								
10								
595								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/21/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 547626.95 Easting: 1446005.18 Elevation: 609.44' Test Pit Depth: 10' bgs Field Person (s): Jason Gutkowski	Test Pit No. CCTP-N21-1 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
610								
0							Brown SILT and CLAY.	
5	605	1	0-10	NA			Red-brown CLAY.	
10	600							
15	595							

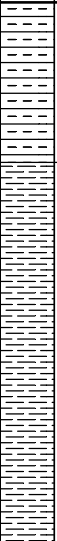
	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/21/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 547619.13 Easting: 1445927.83 Elevation: 609.52' Test Pit Depth: 9.0' bgs Field Person (s): Jason Gutkowski	Test Pit No. CCTP-N21-2 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
610								
0							Brown SILT and CLAY.	
5	605	1	0-9	NA			Red-brown CLAY.	
							Light brown CLAY from 5.0' - 6.0' bgs.	
10	600							
15	595							

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/21/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 547569.72 Easting: 1445979.91 Elevation: 609.82' Test Pit Depth: 8.5' bgs Field Person (s): Jason Gutkowski	Test Pit No. CCTP-N22-1 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
0	610							
5	605	1	0-8.5	NA			Brown SILT and CLAY. Red-brown CLAY.	
10	600							
15	595							


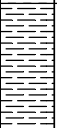
	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/21/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 547569.83 Easting: 1445931.37 Elevation: 609.28' Test Pit Depth: 9.0' bgs Field Person (s): Jason Gutkowski	Test Pit No. CCTP-N22-2 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
610								
0							Brown SILT and CLAY.	
605		1	0-9	NA			Red-brown CLAY.	
5								
600								
10								
595								
15								

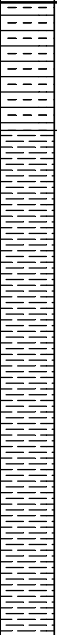
 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/26/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 547446.71 Easting: 1445897.12 Elevation: 609.85' Test Pit Depth: 10' bgs Field Person (s): Jason Gutkowski	Test Pit No. CCTP-N23-1 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
0	610							
5	605	1	0-10	NA			Brown SILT and CLAY.	
							Red-brown CLAY.	
10	600							
15	595							

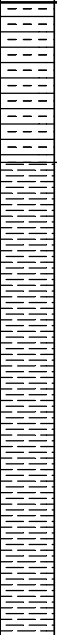
 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/26/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 547335.39 Easting: 1445917.37 Elevation: 609.71' Test Pit Depth: 10' bgs Field Person (s): Jason Gutkowski	Test Pit No. CCTP-N24-1 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
0	610							
5	605	1	0-10	NA			Brown SILT and CLAY. Red-brown CLAY.	
10	600							
15	595							

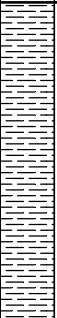
	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/26/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 547341.75 Easting: 1445855.25 Elevation: 609.72' Test Pit Depth: 10' bgs Field Person (s): Jason Gutkowski	Test Pit No. CCTP-N24-2 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
0	610							
5	605	1	0-10	NA			Brown SILT and CLAY. Red-brown CLAY, trace Rock.	
10	600							
15	595							

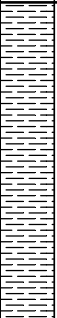
	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/17/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 549166.00 Easting: 1446812.94 Elevation: 604.89' Test Pit Depth: 5.0' bgs Field Person (s): Gregg Rabasco	Test Pit No. CCTP-S1-1 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
0	605							
		1	0-5	NA	X		Light brown CLAY, some Organics.	
5	600							
10	595							
15	590							

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available. Sample collected from 0 - 0.5' for PCDDs/PCDFs (Method 8290).
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Date Start/Finish: 2/17/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 549095.26 Easting: 1446847.97 Elevation: 606.06' Test Pit Depth: 5.0' bgs Field Person (s): Gregg Rabasco	Test Pit No. CCTP-S1-2 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
0								
605		1	0-5	NA			Light brown CLAY, some Organics.	
5								
600								
10								
595								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/17/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 549091.71 Easting: 1446723.90 Elevation: 605.56' Test Pit Depth: 12' bgs Field Person (s): Gregg Rabasco	Test Pit No. CCTP-S2-1 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
0								
605							Brown CLAY.	
							Black stained Silty SAND, odor.	
							Brown CLAY with isolated seams of creosote-like product, odor.	
5	600	1	0-12	NA				
10	595						Brown CLAY, some Roots and Vegetation, slight odor, sheening at vegetation seems.	
					X			
15	590							

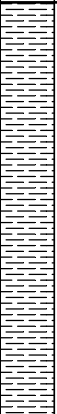
 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available. Sample collected from 11.5' - 12' bgs for PCDDs/PCDFs (Method 8290).
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Date Start/Finish: 2/17/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 549034.93 Easting: 1446749.74 Elevation: 605.84' Test Pit Depth: 11' bgs Field Person (s): Gregg Rabasco	Test Pit No. CCTP-S2-2 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
0								
605							Brown CLAY.	
5		1	0-11	NA			Isolated seams of creosote-like product, odor from 7.0' - 8.0' bgs.	
600								
10								
595								
15								
590								


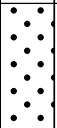

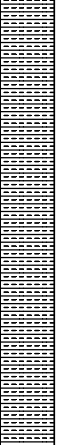
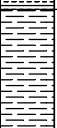
 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/17/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 549000.44 Easting: 1446775.28 Elevation: 606.32' Test Pit Depth: 6.5' bgs Field Person (s): Gregg Rabasco	Test Pit No. CCTP-S2-3 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
0								
605		1	0-6.5	NA			Brown and red-brown CLAY.	
5								
600								
10								
595								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/18/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 548953.52 Easting: 1446636.68 Elevation: 606.20' Test Pit Depth: 14' bgs Field Person (s): Gregg Rabasco	Test Pit No. CCTP-S3-1 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
0								
605							Brown CLAY.	
							Black stained Silty SAND, odor.	
5							Brown Silty CLAY with isolated seams of creosote-like product, odor.	
600		1	0-14	NA				
10							Red-brown CLAY.	
595								
15								

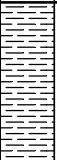

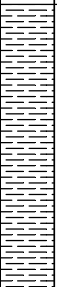
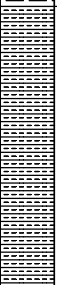
 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/18/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 548918.78 Easting: 1446654.30 Elevation: 606.11' Test Pit Depth: 11' bgs Field Person (s): Gregg Rabasco	Test Pit No. CCTP-S3-2 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
0								
605							Brown CLAY, odor.	
5		1	0-11	NA			Brown and red-brown CLAY with isolated seams of creosote-like product, odor.	
600								
10							Red-brown CLAY.	
595								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/18/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 548957.01 Easting: 1446550.48 Elevation: 606.12' Test Pit Depth: 13' bgs Field Person (s): Gregg Rabasco	Test Pit No. CCTP-S4-1 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
0								
605							Brown CLAY.	
							Black stained Silty SAND, odor.	
5							Brown CLAY with isolated seams of creosote-like product, odor.	
600		1	0-13	NA			Brown Silty CLAY.	
10								
595								
15								

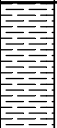
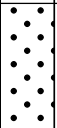
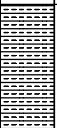
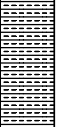
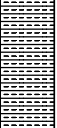
 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/18/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 548899.78 Easting: 1446590.43 Elevation: 606.27' Test Pit Depth: 11.5' bgs Field Person (s): Gregg Rabasco	Test Pit No. CCTP-S4-2 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
0								
605							Brown Silty CLAY, odor.	
5							Isolated seams of creosote-like product, odor from 4.0' - 9.0' bgs.	
600		1	0-11.5	NA				
10							Red CLAY.	
595					X			
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available. Sample collected from 11' - 11.5' bgs for PCDDs/PCDFs (Method 8290).
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Date Start/Finish: 2/19/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 548811.85 Easting: 1446313.95 Elevation: 605.71' Test Pit Depth: 15' bgs Field Person (s): Gregg Rabasco	Test Pit No. CCTP-S6-1 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
0								
	605						Brown CLAY.	
							Black stained Silty SAND, odor.	
5		1	0-15	NA			Brown Silty CLAY with isolated seams of creosote-like product, odor.	
	600							
							Brown CLAY with isolated seams of creosote-like product, odor.	
10								
	595							
							Brown CLAY with isolated seams of creosote-like product, odor.	
15								
	590							

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/19/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 548775.02 Easting: 1446350.66 Elevation: 606.74' Test Pit Depth: 11' bgs Field Person (s): Gregg Rabasco	Test Pit No. CCTP-S6-2 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
0								
605		1	0-11	NA			Brown Silty CLAY.	
5								
600								
10								
595								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/19/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 548740.52 Easting: 1446380.45 Elevation: 606.94' Test Pit Depth: 9.0' bgs Field Person (s): Gregg Rabasco	Test Pit No. CCTP-S6-3 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
0								
605							Brown Silty CLAY.	
5		1	0-9	NA			Dark brown Silty CLAY, some Organics.	
600							Red-brown CLAY.	
10								
595								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/19/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 548667.85 Easting: 1446148.00 Elevation: 607.38' Test Pit Depth: 15.5' bgs Field Person (s): Gregg Rabasco	Test Pit No. CCTP-S8-1 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
610								
0							Brown SILT and CLAY.	
605							Black stained Silty SAND, odor.	
5							Brown Silty CLAY with isolated seams of creosote-like product, odor.	
600		1	0-15.5	NA				
10								
595								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/19/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 548637.03 Easting: 1446176.38 Elevation: 607.20' Test Pit Depth: 10' bgs Field Person (s): Gregg Rabasco	Test Pit No. CCTP-S8-2 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
610								
0					X		Brown SILT and CLAY.	
605							Brown Silty CLAY.	
5		1	0-10	NA				
600								
10								
595								
15								








 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available. Sample collected from 0 - 0.5' bgs for PCDDs/PCDFs (Method 8290). MS/MSD sample collected from 0 - 0.5' bgs.
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Date Start/Finish: 2/19/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 548584.10 Easting: 1446219.49 Elevation: 607.16' Test Pit Depth: 10' bgs Field Person (s): Gregg Rabasco	Test Pit No. CCTP-S8-3 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
610								
0							Brown and dark brown SILT and CLAY.	
605							Brown CLAY.	
5		1	0-10	NA				
600								
10								
595								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/20/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 548457.90 Easting: 1445999.57 Elevation: 607.79' Test Pit Depth: 17' bgs Field Person (s): Gregg Rabasco	Test Pit No. CCTP-S11-1 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
610								
0							Brown SILT and CLAY.	
605							Black stained Silty SAND, odor.	
5							Brown Silty CLAY with isolated seams of creosote-like product, odor.	
600		1	0-17	NA				
10								
595							Groundwater seeping at 12' bgs.	
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Client:

Beazer East, Inc.


Test Pit No. CCTP-S11-1**Site Location:**Koppers Wood-Treating
Facility
Crawford Creek Floodplain**Borehole Depth:** 17' bgs

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
		1	0-17	NA			Brown Silty CLAY with isolated seams of creosote-like product, odor.	
590								
20								
585								
25								
580								
30								
575								
35								

**Remarks:** bgs = below ground surface; NA = Not Applicable/Available.


Date Start/Finish: 2/20/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 548453.94 Easting: 1446040.17 Elevation: 607.78' Test Pit Depth: 11.5' bgs Field Person (s): Gregg Rabasco	Test Pit No. CCTP-S11-2 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
610								
0							Brown SILT and CLAY.	
							Brown and red-brown CLAY.	
605							Brown Silty CLAY.	
5		1	0-11.5	NA				
600								
10								
595								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/20/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 548436.72 Easting: 1446110.24 Elevation: 607.27' Test Pit Depth: 9.5' bgs Field Person (s): Gregg Rabasco	Test Pit No. CCTP-S11-3 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
610								
0							Brown SILT and CLAY.	
605							Dark brown Silty CLAY.	
5		1	0-9.5	NA			Red-brown CLAY.	
600								
10								
595								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/20/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 548291.93 Easting: 1445964.81 Elevation: 608.39' Test Pit Depth: 9.5' bgs Field Person (s): Gregg Rabasco	Test Pit No. CCTP-S13-1 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
610								
0							Brown SILT and CLAY.	
							Dark brown SILT and CLAY.	
605							Brown and red-brown CLAY.	
5		1	0-9.5	NA				
600								
10								
595								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/20/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 548292.38 Easting: 1446010.73 Elevation: 607.39' Test Pit Depth: 9.5' bgs Field Person (s): Gregg Rabasco	Test Pit No. CCTP-S13-2 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
610								
0							Brown SILT and CLAY.	
605							Brown and red-brown CLAY.	
5		1	0-9.5	NA				
600								
10								
595								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/21/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 548090.72 Easting: 1445890.94 Elevation: 608.73' Test Pit Depth: 9.5' bgs Field Person (s): Jason Gutkowski	Test Pit No. CCTP-S15-1 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
610								
0							Brown SILT and CLAY.	
605		1	0-9.5	NA			Red-brown CLAY.	
5								
600								
10								
595								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/21/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 548074.45 Easting: 1445973.90 Elevation: 607.70 Test Pit Depth: 10' bgs Field Person (s): Jason Gutkowski	Test Pit No. CCTP-S15-2 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
610								
0							Brown SILT and CLAY.	
605							Red-brown CLAY.	
5		1	0-10	NA				
600								
10								
595								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/21/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 548024.07 Easting: 1445938.71 Elevation: 608.42' Test Pit Depth: 9.0' bgs Field Person (s): Jason Gutkowski	Test Pit No. CCTP-S16-1 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
610								
0							Brown SILT and CLAY.	
605		1	0-9	NA			Red-brown with little dark brown CLAY.	
5								
600								
10								
595								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/21/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 548021.25 Easting: 1445982.33 Elevation: 607.95' Test Pit Depth: 10' bgs Field Person (s): Jason Gutkowski	Test Pit No. CCTP-S16-2 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
610								
0							Brown SILT and CLAY.	
605							Red-brown CLAY.	
5		1	0-10	NA				
600								
10								
595								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/21/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 547948.41 Easting: 1445852.23 Elevation: 608.81' Test Pit Depth: 10' bgs Field Person (s): Jason Gutkowski	Test Pit No. CCTP-S17-1 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
610								
0							Brown SILT and CLAY.	
605							Red-brown CLAY.	
5		1	0-10	NA				
600								
10								
595								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/21/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 547937.90 Easting: 1445915.70 Elevation: 609.01' Test Pit Depth: 10' bgs Field Person (s): Jason Gutkowski	Test Pit No. CCTP-S17-2 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
610								
0							Brown SILT and CLAY.	
605							Red-brown CLAY.	
5		1	0-10	NA				
600								
10								
595								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/21/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 547885.65 Easting: 1445894.06 Elevation: 609.23' Test Pit Depth: 8.5' bgs Field Person (s): Jason Gutkowski	Test Pit No. CCTP-S18-1 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
610								
0							Brown SILT and CLAY.	
605		1	0-8.5	NA			Red-brown CLAY.	
5								
600								
10								
595								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/21/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 547894.39 Easting: 1445949.30 Elevation: 608.32' Test Pit Depth: 9.0' bgs Field Person (s): Jason Gutkowski	Test Pit No. CCTP-S18-2 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
610								
0							Brown SILT and CLAY.	
605		1	0-9	NA			Red-brown CLAY.	
5								
600								
10								
595								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/24/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 547915.02 Easting: 1446017.18 Elevation: 608.77' Test Pit Depth: 8.0' bgs Field Person (s): Jason Gutkowski	Test Pit No. CCTP-S18-3 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
610								
0							Brown SILT and CLAY.	
605		1	0-8	NA			Red-brown CLAY.	
5								
600								
10								
595								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/21/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 547771.47 Easting: 1445856.91 Elevation: 610.57' Test Pit Depth: 10' bgs Field Person (s): Jason Gutkowski	Test Pit No. CCTP-S19-1 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
0								
610							Brown SILT and CLAY.	
5	605	1	0-10	NA			Red-brown CLAY.	
10	600							
15	595							

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/21/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 547817.34 Easting: 1445869.64 Elevation: 608.56' Test Pit Depth: 10' bgs Field Person (s): Jason Gutkowski	Test Pit No. CCTP-S19-2 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
610								
0							Brown SILT and CLAY.	
605							Red-brown CLAY.	
5		1	0-10	NA				
600								
10								
595								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/21/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 547782.51 Easting: 1445962.43 Elevation: 609.14' Test Pit Depth: 9.0' bgs Field Person (s): Jason Gutkowski	Test Pit No. CCTP-S20-1 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
610								
0							Brown SILT and CLAY.	
605		1	0-9	NA			Red-brown CLAY.	
5								
600								
10								
595								
15								

	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/21/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 547807.12 Easting: 1446010.34 Elevation: 609.20' Test Pit Depth: 12' bgs Field Person (s): Jason Gutkowski	Test Pit No. CCTP-S20-2 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
610								
0							Brown SILT and CLAY.	
							Black stained Silty SAND, odor.	
605					X		Red-brown CLAY.	
5		1	0-12	NA				
600								
10								
595								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available. Sample collected from 4.0' - 4.5' bgs for PCDDs/PCDFs (Method 8290).
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Date Start/Finish: 2/22/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 547835.00 Easting: 1446052.26 Elevation: 609.08' Test Pit Depth: 12' bgs Field Person (s): Jason Gutkowski	Test Pit No. CCTP-S20-3 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
610								
0							Brown SILT and CLAY.	
							Black stained Silty SAND, odor.	
							Red-brown CLAY.	
605								
5		1	0-12	NA	X		Isolated seams of creosote-like product, odor from 4.9' - 5.1' bgs.	
600								
10								
595								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available. Sample collected from 5.5' - 6.0' bgs for PCDDs/PCDFs (Method 8290).
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Date Start/Finish: 2/24/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 547872.54 Easting: 1446107.29 Elevation: 610.03' Test Pit Depth: 10' bgs Field Person (s): Jason Gutkowski	Test Pit No. CCTP-S20-4 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
0	610							
							Brown SILT and CLAY.	
							Red-brown CLAY.	
5	605	1	0-10	NA				
10	600							
15	595							

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/24/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 547903.49 Easting: 1446143.11 Elevation: 612.03' Test Pit Depth: 9.0' bgs Field Person (s): Jason Gutkowski	Test Pit No. CCTP-S20-5 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
0	612							
0							Brown SILT and CLAY.	
	610						Red-brown CLAY.	
5		1	0-9	NA				
	605							
10								
	600							
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/24/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 547634.77 Easting: 1446071.23 Elevation: 609.17' Test Pit Depth: 10.5' bgs Field Person (s): Jason Gutkowski	Test Pit No. CCTP-S21-1 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
610								
0							Brown SILT and CLAY.	
						•••	Black stained Silty SAND, odor.	
							Red-brown CLAY.	
5	605	1	0-10.5	NA			Isolated seams of creosote-like product, odor from 5.0' - 5.2' bgs.	
	600							
10								
	595							
15								



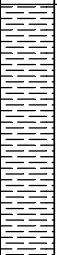
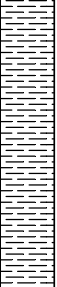
 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/24/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 547640.21 Easting: 1446124.63 Elevation: 609.18' Test Pit Depth: 13' bgs Field Person (s): Jason Gutkowski	Test Pit No. CCTP-S21-2 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
610								
0							Brown SILT and CLAY.	
							Black stained Silty SAND, odor.	
605							Red-brown CLAY.	
5		1	0-13	NA			Isolated seams of creosote-like product, odor from 7.0' - 9.0' bgs.	
600								
10								
595								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/24/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 547641.41 Easting: 1446167.06 Elevation: 609.52'	Test Pit No. CCTP-S21-3 Client: Beazer East, Inc.
	Test Pit Depth: 11.5' bgs Field Person (s): Jason Gutkowski	Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
610	0							
							Brown SILT and CLAY.	
							Black stained Silty SAND, odor.	
605	5	1	0-11.5	NA			Red-brown CLAY.	
							Isolated seams of creosote-like product, odor from 7.0' - 9.0' bgs.	
600	10							
595	15							

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.


Date Start/Finish: 2/24/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 547669.28 Easting: 1446232.63 Elevation: 609.37' Test Pit Depth: 9.0' bgs Field Person (s): Jason Gutkowski	Test Pit No. CCTP-S21-4 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
610								
0							Brown SILT and CLAY.	
							Black stained Silty SAND, odor.	
605		1	0-9	NA			Red-brown CLAY.	
5								
600								
10								
595								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/24/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 547582.34 Easting: 1446057.00 Elevation: 609.44' Test Pit Depth: 14' bgs Field Person (s): Jason Gutkowski	Test Pit No. CCTP-S22-1 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
610								
0							Brown SILT and CLAY.	
							Black stained Silty SAND, odor.	
605							Red-brown CLAY.	
5		1	0-14	NA				
600								
10								
595								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/24/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 547577.42 Easting: 1446124.75 Elevation: 610.24'	Test Pit No. CCTP-S22-2 Client: Beazer East, Inc.
	Test Pit Depth: 13' bgs Field Person (s): Jason Gutkowski	Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
0	610						Brown SILT and CLAY.	
							Black stained Silty SAND, odor.	
5	605	1	0-13	NA			Red-brown CLAY with isolated seams of creosote-like product, odor.	
10	600						Red-brown CLAY.	
15	595							






 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/24/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 547576.92 Easting: 1446175.90 Elevation: 610.41' Test Pit Depth: 13' bgs Field Person (s): Jason Gutkowski	Test Pit No. CCTP-S22-3 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
0								
0	610						Brown SILT and CLAY.	
5	605	1	0-13	NA			Black stained Silty SAND, odor.	
							Red-brown CLAY with isolated seams of creosote-like product, odor.	
10	600				X		Red-brown CLAY.	
15	595							





 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available. Sample collected from 8.5' - 9.0' bgs for PCDDs/PCDFs (Method 8290).
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Date Start/Finish: 2/24/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 547582.08 Easting: 1446273.68 Elevation: 610.94'	Test Pit No. CCTP-S22-4 Client: Beazer East, Inc.
	Test Pit Depth: 12' bgs Field Person (s): Jason Gutkowski	Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
0								
	610						Brown SILT and CLAY.	
							Black stained Silty SAND, odor.	
							Red-brown CLAY with isolated seams of creosote-like product, odor.	
5								
	605	1	0-12	NA				
								
10							Red-brown CLAY.	
	600							
15								
	595							


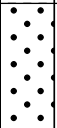

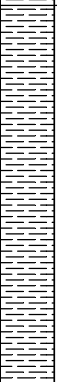
 <p>BBL BLASLAND, BOUCK & LEE, INC. engineers & scientists</p>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.


Date Start/Finish: 2/25/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 547517.57 Easting: 1446041.67 Elevation: 609.76' Test Pit Depth: 13' bgs Field Person (s): Jason Gutkowski	Test Pit No. CCTP-S23-1 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
0	610							
							Brown SILT and CLAY.	
							Black stained Silty SAND, odor.	
5	605	1	0-13	NA			Red-brown CLAY.	
10	600						Isolated seams of creosote-like product, odor from 8.0' - 10' bgs.	
15	595							


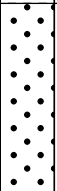

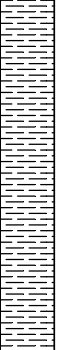
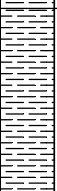
 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/25/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 547508.67 Easting: 1446114.03 Elevation: 610.38'	Test Pit No. CCTP-S23-2 Client: Beazer East, Inc.
	Test Pit Depth: 11' bgs Field Person (s): Jason Gutkowski	Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
0	610							
							Brown SILT and CLAY.	
							Black stained Silty SAND, odor.	
5	605	1	0-11	NA			Red-brown CLAY with isolated seams of creosote-like product, odor.	
							Red-brown CLAY.	
10	600							
15	595							

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.


Date Start/Finish: 2/25/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 547491.72 Easting: 1446180.08 Elevation: 611.02'	Test Pit No. CCTP-S23-3 Client: Beazer East, Inc.
	Test Pit Depth: 14' bgs Field Person (s): Jason Gutkowski	Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
0								
610							Brown SILT and CLAY.	
							Black stained Silty SAND, odor.	
5							Red-brown CLAY with isolated seams of creosote-like product, odor.	
605		1	0-14	NA				
10							Red-brown CLAY.	
600								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/25/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 547414.58 Easting: 1446295.66 Elevation: 612.68' Test Pit Depth: 14' bgs Field Person (s): Jason Gutkowski	Test Pit No. CCTP-S23-4 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
615								
0							Red-brown CLAY.	
610							Black stained Silty SAND, Organics (Roots), odor.	
5							Red-brown CLAY with isolated seams of creosote-like product, odor.	
605		1	0-14	NA				
10								
600								
15								


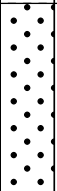

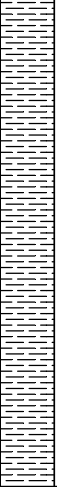
 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/25/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 547440.37 Easting: 1445951.85 Elevation: 609.27' Test Pit Depth: 16' bgs Field Person (s): Jason Gutkowski	Test Pit No. CCTP-S24-1 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
610								
0							Brown SILT and CLAY.	
							Red-brown CLAY.	
605							Black stained Silty SAND, odor.	
5							Gray-brown CLAY with isolated seams of creosote-like product, odor.	
600		1	0-16	NA				
10								
595							Gray-brown CLAY.	
15								


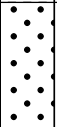
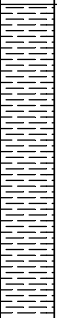
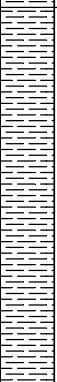
 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/25/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 547426.48 Easting: 1446021.97 Elevation: 608.50'	Test Pit No. CCTP-S24-2 Client: Beazer East, Inc.
	Test Pit Depth: 15' bgs Field Person (s): Jason Gutkowski	Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
610								
0							Brown SILT and CLAY.	
605							Black stained Silty SAND, odor.	
5							Red-brown CLAY with isolated seams of creosote-like product, odor.	
600		1	0-15	NA				
10								
595								
15								


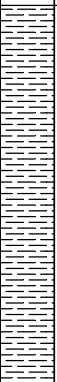
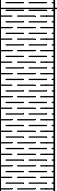
 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.


Date Start/Finish: 2/25/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 547402.70 Easting: 1446115.77 Elevation: 610.09' Test Pit Depth: 14' bgs Field Person (s): Jason Gutkowski	Test Pit No. CCTP-S24-3 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
0	610							
							Brown SILT and CLAY.	
							Black stained Silty SAND, odor.	
							Red-brown CLAY with isolated seams of creosote-like product, odor.	
5	605	1	0-14	NA			Red-brown CLAY.	
10	600							
15	595							

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/25/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 547339.93 Easting: 1446223.49 Elevation: 611.46' Test Pit Depth: 14' bgs Field Person (s): Jason Gutkowski	Test Pit No. CCTP-S24-4 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
0								
610							Brown SILT and CLAY. Black stained Silty SAND, odor.	
5							Brown CLAY with isolated seams of creosote-like product, odor.	
605		1	0-14	NA				
10							Red-brown CLAY.	
600								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/25/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 547371.68 Easting: 1445969.59 Elevation: 610.89' Test Pit Depth: 12' bgs Field Person (s): Jason Gutkowski	Test Pit No. CCTP-S25-1 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
0								
	610						Brown SILT and CLAY.	
							Red-brown CLAY.	
5								
	605	1	0-12	NA				
10								
	600							
15								
	595							


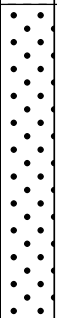
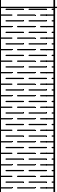
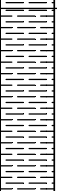
 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/25/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 547332.99 Easting: 1446026.90 Elevation: 610.70' Test Pit Depth: 14' bgs Field Person (s): Jason Gutkowski	Test Pit No. CCTP-S25-2 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
0								
610							Brown SILT and CLAY.	
							Red-brown CLAY.	
5								
605		1	0-14	NA				
10								
600								
15								
595								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/25/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 547303.39 Easting: 1446092.14 Elevation: 609.36' Test Pit Depth: 14' bgs Field Person (s): Jason Gutkowski	Test Pit No. CCTP-S25-3 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
610	0							
							Brown SILT and CLAY.	
	605	1	0-14	NA			Black stained Silty SAND with isolated seams of creosote-like product, odor.	
	600						Gray-brown CLAY with isolated seams of creosote-like product, odor.	
							Red-brown CLAY.	
595	15							

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/25/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 547208.87 Easting: 1446012.04 Elevation: 610.38' Test Pit Depth: 11' bgs Field Person (s): Jason Gutkowski	Test Pit No. CCTP-S26-1 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
0	610							
							Brown SILT and CLAY.	
5	605	1	0-11	NA			Red-brown CLAY.	
10	600							
15	595							

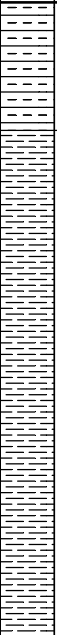
 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/25/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 547192.99 Easting: 1445938.48 Elevation: 610.35' Test Pit Depth: 11' bgs Field Person (s): Jason Gutkowski	Test Pit No. CCTP-S27-1 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
0								
610							Brown SILT and CLAY.	
							Red-brown CLAY.	
5	605	1	0-11	NA			Gray-brown CLAY.	
10	600							
15	595							

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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Date Start/Finish: 2/25/03 Excavating Company: Severson Environmental Services, Inc.	Northing: 547126.46 Easting: 1445961.49 Elevation: 609.58' Test Pit Depth: 10' bgs Field Person (s): Jason Gutkowski	Test Pit No. CCTP-S27-2 Client: Beazer East, Inc. Location: Koppers Wood-Treating Facility Crawford Creek Floodplain Superior, Wisconsin
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
0	610							
5	605	1	0-10	NA			Brown SILT and CLAY. Red-brown CLAY.	
10	600							
15	595							

	Remarks: bgs = below ground surface; NA = Not Applicable/Available.
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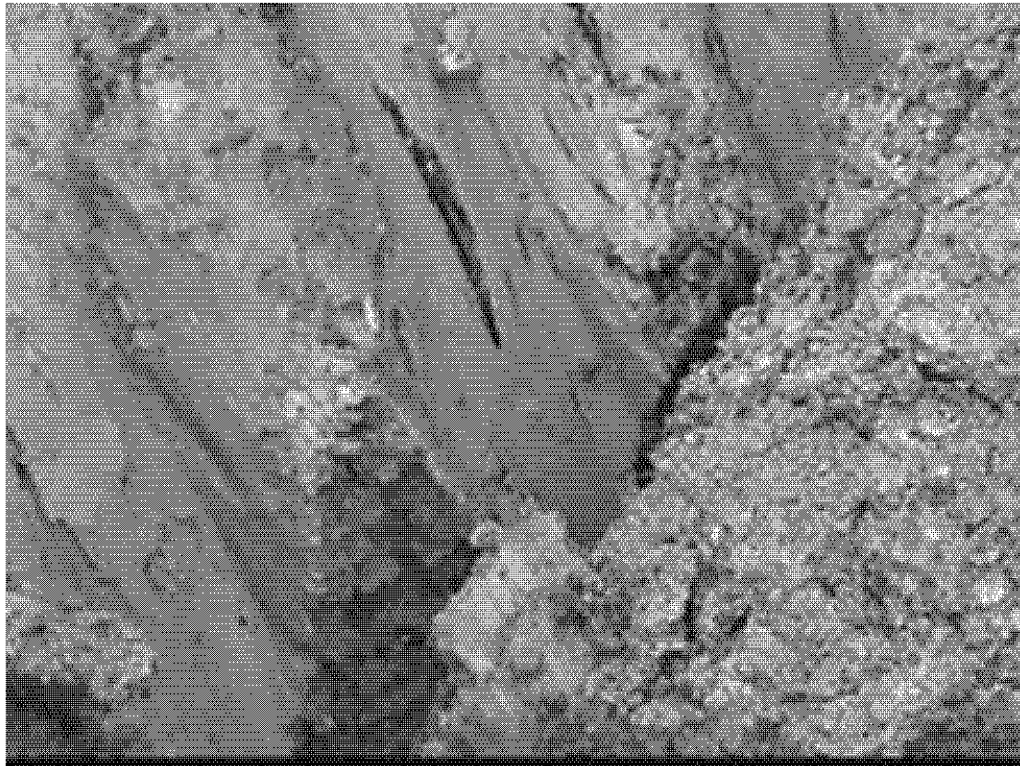
Attachment B

Photographs

Photographs of black “stained” layer in test pits



Photographs of isolated seams of creosote-like product in test pits



Photographs of isolated seams of creosote-like product in test pits (continued)



Attachment C

Data Review Report

DATA REVIEW FOR
BEAZER EAST, INC.
KOPPERS INC. WOOD-TREATING FACILITY
SUPERIOR, WISCONSIN

SDG# G3B270243

PCDD/PCDF ANALYSES

Analyses performed by:

Severn Trent Laboratories, Inc.
West Sacramento, California

Review performed by:



Blasland, Bouck & Lee, Inc.
Syracuse, New York

Summary

The following is an assessment of the data package for SDG# G3B270243 for sampling at the Koppers Inc. Wood-Treating Facility in Superior, Wisconsin. Included with this assessment are the data review check sheets used in the review of the package and corrected sample results. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Date				
				SVOC	PCB	MET	MISC ¹
CCTP-S1-1 (0"-6")	G3B270243-001	Soil	2/17/03				x
CCTP-N1-2 (0"-6")	G3B270243-002	Soil	2/17/03				x
CCTP-S2-1 (11.5'-12.0')	G3B270243-003	Soil	2/17/03				x
CCTP-S4-2 (11.0'-11.5')	G3B270243-004	Soil	2/18/03				x
CCTP-N7-1 (16.5'-17.0')	G3B270243-005	Soil	2/19/03				x
CCTP-N8-1 (0"-6")	G3B270243-006	Soil	2/19/03				x
CCTP-S8-2 (0"-6") ²	G3B270243-007	Soil	2/19/03				x
CCTP-DUP-1	G3B270243-008	Soil	2/19/03				x
CCTP-S20-2 (4.0 -4.5')	G3B270243-009	Soil	2/21/03				x
CCTP-S20-3 (5.5'-6.0')	G3B270243-010	Soil	2/24/03				x
CCTP-S22-3 (8.5'-9.0)	G3B270243-011	Soil	2/24/03				x
CCTP-FB-1	G3B270243-01	Water	2/24/03				x

- 1 PCDD/PCDF analysis.
- 2 MS/MSD analysis performed on sample.

PCDD/PCDF ANALYSES

Introduction

Analyses were performed according to the USEPA Method 8290.

The data review process is intended to evaluate the data on a technical basis. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with National Functional Guidelines:

Concentration qualifiers:

- ND The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
- EMPC The "estimated maximum possible concentration" is reported when GC/MS signals eluting within the established retention time window have a signal-to-noise ratio in excess of 2.5 but do not meet the ion abundance ratio criteria.

Quantitation qualifiers:

- B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- S The compound has exceeded the normal dynamic range.
- PR The reported concentration may be overestimated due to a poorly resolved GC peak.
- U The reported concentration may be underestimated due to the presence of a large closely eluting peak.
- E The reported concentration is based on an analyte to internal standard ratio which exceeds the range of the calibration curve. The value should be considered estimated only.

Validation qualifiers:

- J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
- R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant QC problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to consider is that no compound

concentration, even if it has passed all QC test, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Data Assessment

1. Holding Time

The method-specified holding times for PCDD/PCDF analysis of water samples are 30 days from sample collection to extraction and 45 days from collection to analysis.

All samples were extracted and analyzed within the specified holding times.

2. Blank Contamination

Quality assurance blanks (i.e., method, field, or rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Field and rinse blanks measure cross contamination of samples during field operations.

No target compounds were identified in the method or rinse blanks.

3. Mass Spectrometer Resolution Check

Resolution was acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The % relative standard deviation (%RSD) was less than 15% for all non-labeled compounds (targets) and less than 20% for all labeled compounds (internal standards and recovery standards). All isotope abundance ratios were within the defined limits.

4.2 Continuing Calibration

All continuing calibration target standards were within the 20% difference (%D) of the initial calibration.

The labeled continuing calibration standard for OCDD was greater than the acceptable criterion of 30% for all soil samples within the SDG. These sample results have been qualified as estimated (J).

5. Recovery Standard Performance

All samples to be analyzed for PCDD/PCDF compounds are spiked with recovery standard prior to injection. The concentrations of all the labeled standards (internal standards) are determined by using the recovery standard.

All recovery standard isotopic ratios were acceptable.

6. Internal Standard Performance and Recovery

All samples to be analyzed for PCDD/PCDF compounds are spiked with internal standards prior to extraction, which eliminates the need to correct quantitative data for extraction efficiency.

Recovery for internal standard $^{13}\text{C}_{12}$ -OCDD was above control limits in samples CCTP-S4-2 (11.0'-11.5') as well as the method blank. Since the sample results were non-detect no data have been qualified based on this deviation.

7. Compound Identification

PCDD/PCDF compounds are identified by using the analyte's ion abundance ratios, signal-to-noise values, and relative retention times.

An EMPC or "estimated maximum possible concentration" designation is given to compounds that have signals eluting within the established retention time window and, if positively identified, would be above the detection limit. The signals do not, however, meet the ion abundance ratio criteria and cannot be identified as the compound of interest. The EMPC value is the estimated concentration of the interferant quantitated "as" the compound of interest. This value should be considered an elevated detection limit based on potential compound identification and quantitation interference.

8. Matrix Spike/Matrix Spike Duplicate Samples (MS/MSD)

Although not required by the method, matrix spike and matrix spike duplicates can be analyzed to provide an additional assessment of the precision and accuracy of the analytical method.

The reported recovery for the MS of 1,2,3,4,7,8-HxCDF was above the control limit. The sample result for this compound in sample CCTP-S8-2 (0"-6") has been qualified as estimated (J).

9. Field Duplicates

Results for duplicate samples are summarized as follows:

Sample ID/ Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
CCTP-N8-1 (0"-6")/ CCTP-DUP-1	2,3,7,8-TCDD	ND	ND	0.0%
	Total TCDD	3.5	2.1	50.0%
	1,2,3,7,8-PeCDD	3.9	5.8	39.2%
	Total PeCDD	13	28	73.2%
	1,2,3,4,7,8-HxCDD	14	20	35.3%
	1,2,3,6,7,8-HxCDD	120	170	34.5%
	1,2,3,7,8,9-HxCDD	28	29	3.5%
	Total HxCDD	540	840	43.5%
	1,2,3,4,6,7,8-HpCDD	3400	4800	34.1%
	Total HpCDD	7000	10000	35.3%
	OCDD	43000	64000	39.3%
	2,3,7,8-TCDF	1.8	1.9	5.4%
	Total TCDF	5.1	7.6	39.4%
	1,2,3,7,8-PeCDF	11	13	16.7%
	2,3,4,7,8-PeCDF	11	15	30.8%
	Total PeCDF	110	190	53.3%
	1,2,3,4,7,8-HxCDF	120	190	45.2%
	1,2,3,6,7,8-HxCDF	21	37	55.2%
	2,3,4,6,7,8-HxCDF	15	20	28.6%
	1,2,3,7,8,9-HxCDF	4.3	5.7	28.0%
	Total HxCDF	1700	2500	38.1%
	1,2,3,4,6,7,8-HpCDF	920	1200	26.4%
	1,2,3,4,7,8,9-HpCDF	110	160	37.0%
	Total HpCDF	4900	6800	32.5%
	OCDF	3600	5800	46.8%

ND Not detected.

NA Analyte not detected in sample and/or duplicate. RPD not applicable.

The duplicate results are acceptable.

10. System Performance and Overall Assessment

Many of the samples contain concentrations of compounds which were above the linear calibration range. These sample results have been qualified as estimated (J).

The EMPC data qualifier was not used by the laboratory as specified in the Method 8290. This qualifier has been added to the sample results where applicable.

Sample CCTP-S2-1 (11.5'-12.0') was reanalyzed due to suspected carryover on 3/19/03.

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines listed in the analytical method.

Data Validation Checklist

PCDD/PCDF Data Validation Checklist

	YES	NO	NA
<u>Data Completeness and Deliverables</u>			
Is there a narrative or cover letter present?	<u>X</u>	<u> </u>	<u> </u>
Are the samples numbers included in the narrative?	<u>X</u>	<u> </u>	<u> </u>
Are the sample chain-of-custodies present?	<u>X</u>	<u> </u>	<u> </u>
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?	<u> </u>	<u>X</u>	<u> </u>
<u>Holding Times</u>			
Have any holding times been exceeded?	<u> </u>	<u>X</u>	<u> </u>
<u>Internal Standard Performance</u>			
Was internal standard data submitted?	<u>X</u>	<u> </u>	<u> </u>
Was one or more internal standard recovery outside control limits for any sample or blank?	<u>X</u>	<u> </u>	<u> </u>
If yes, were the samples reanalyzed?	<u> </u>	<u>X</u>	<u> </u>
Was one or more ion abundance ratio or retention time outside control limits?	<u> </u>	<u>X</u>	<u> </u>
<u>Recovery Standard Performance</u>			
Was recovery standard data submitted?	<u>X</u>	<u> </u>	<u> </u>
Was one or more ion abundance ratio or retention time outside control limits for any sample or blank?	<u> </u>	<u>X</u>	<u> </u>
If yes, were the samples reanalyzed?	<u> </u>	<u> </u>	<u>X</u>
<u>Matrix Spikes</u>			
Is there matrix spike recovery data submitted?	<u>X</u>	<u> </u>	<u> </u>
Were matrix spikes analyzed at the required frequency?	<u>X</u>	<u> </u>	<u> </u>
Were any spike recoveries outside control limits?	<u>X</u>	<u> </u>	<u> </u>
<u>Blanks</u>			
Is the method blank data submitted?	<u>X</u>	<u> </u>	<u> </u>
Has a method blank been analyzed for each set of samples or for each 20 samples, whichever is more frequent?	<u>X</u>	<u> </u>	<u> </u>
Is the chromatographic performance acceptable for each instrument?	<u>X</u>	<u> </u>	<u> </u>
Do any method/reagent/instrument blanks have positive results?	<u> </u>	<u>X</u>	<u> </u>
Are field/equipment blanks associated with every sample?	<u>X</u>	<u> </u>	<u> </u>
Do any field/equipment blanks have positive results?	<u> </u>	<u>X</u>	<u> </u>

PCDD/PCDF Data Validation Checklist - Page 2

	YES	NO	NA
<u>Mass Spectrometer Resolution</u>			
Are the GC/MS resolution check data submitted?	<u>X</u>	<u> </u>	<u> </u>
Was the resolution acceptable?	<u>X</u>	<u> </u>	<u> </u>
<u>Target Analytes</u>			
Is a PCDD/PCDF analysis results sheet present for each of the following:			
Samples	<u>X</u>	<u> </u>	<u> </u>
Matrix spikes	<u>X</u>	<u> </u>	<u> </u>
Blanks	<u>X</u>	<u> </u>	<u> </u>
Are the selected ion chromatograms present for each of the following:			
Samples	<u>X</u>	<u> </u>	<u> </u>
Matrix spikes	<u>X</u>	<u> </u>	<u> </u>
Blanks	<u>X</u>	<u> </u>	<u> </u>
Is the chromatographic performance acceptable with respect to:			
Baseline stability	<u>X</u>	<u> </u>	<u> </u>
Resolution	<u>X</u>	<u> </u>	<u> </u>
Peak shape	<u>X</u>	<u> </u>	<u> </u>
<u>Quantitation and Detection Limits</u>			
Are the reporting limits adjusted to reflect sample dilutions and for soils, sample moisture?	<u>X</u>	<u> </u>	<u> </u>
<u>Standard Data</u>			
Are the quantitation reports and selected ion chromatograms present for the initial and continuing calibration standards?	<u> </u>	<u>X</u>	<u> </u>
<u>Initial Calibration</u>			
Was the initial calibration data submitted for each instrument used?	<u>X</u>	<u> </u>	<u> </u>
Are the response factor RSDs within specified limits?	<u>X</u>	<u> </u>	<u> </u>
Were the ion abundance ratios within specifications?	<u>X</u>	<u> </u>	<u> </u>
Was the signal-to-noise ratio \geq 10:1 for the ion current profiles?	<u>X</u>	<u> </u>	<u> </u>
<u>Continuing Calibration</u>			
Was the continuing calibration data submitted for each instrument?	<u>X</u>	<u> </u>	<u> </u>
Has a continuing calibration standard been analyzed for each twelve hours of analysis per instrument?	<u>X</u>	<u> </u>	<u> </u>
All %D within acceptable limits?	<u> </u>	<u>X</u>	<u> </u>

PCDD/PCDF Data Validation Checklist - Page 3

	YES	NO	NA
Were the ion abundance ratios within specifications?	<u> X </u>	<u> </u>	<u> </u>
Was the signal-to-noise ratio \geq 10:1 for the ion current profiles?	<u> X </u>	<u> </u>	<u> </u>
<u>Field Duplicates</u>			
Where field duplicates submitted with the samples?	<u> X </u>	<u> </u>	<u> </u>

Corrected Sample Analysis Data Sheets

BLASLAND BOUCK & LEE INC

Client Sample ID: CCTP-S1-1(0"-6")

Trace Level Organic Compounds

Lot-Sample #...: G3B270243-001 Work Order #...: FJA1H1AA Matrix.....: SOLID
 Date Sampled...: 02/17/03 Date Received...: 02/27/03
 Prep Date.....: 03/01/03 Analysis Date...: 03/05/03
 Prep Batch #...: 3060133
 Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	0.66 <i>EMPC</i>	pg/g	SW846 8290
Total TCDD	9.8		pg/g	SW846 8290
1,2,3,7,8-PeCDD	7.9		pg/g	SW846 8290
Total PeCDD	44		pg/g	SW846 8290
1,2,3,4,7,8-HxCDD	30		pg/g	SW846 8290
1,2,3,6,7,8-HxCDD	310		pg/g	SW846 8290
1,2,3,7,8,9-HxCDD	53		pg/g	SW846 8290
Total HxCDD	1400		pg/g	SW846 8290
1,2,3,4,6,7,8-HpCDD	8100 E J		pg/g	SW846 8290
Total HpCDD	16000		pg/g	SW846 8290
OCDD	130000 D, E J		pg/g	SW846 8290
2,3,7,8-TCDF	4.4 CON		pg/g	SW846 8290
Total TCDF	13		pg/g	SW846 8290
1,2,3,7,8-PeCDF	33		pg/g	SW846 8290
2,3,4,7,8-PeCDF	32		pg/g	SW846 8290
Total PeCDF	400		pg/g	SW846 8290
1,2,3,4,7,8-HxCDF	340		pg/g	SW846 8290
1,2,3,6,7,8-HxCDF	66		pg/g	SW846 8290
2,3,4,6,7,8-HxCDF	39		pg/g	SW846 8290
1,2,3,7,8,9-HxCDF	15		pg/g	SW846 8290
Total HxCDF	5000		pg/g	SW846 8290
1,2,3,4,6,7,8-HpCDF	2300		pg/g	SW846 8290
1,2,3,4,7,8,9-HpCDF	290		pg/g	SW846 8290
Total HpCDF	13000		pg/g	SW846 8290
OCDF	12000 D		pg/g	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	90	(40 - 135)
13C-1,2,3,7,8-PeCDD	74	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	73	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	113	(40 - 135)
13C-OCDD	119	(40 - 135)
13C-2,3,7,8-TCDF	93	(40 - 135)
13C-1,2,3,7,8-PeCDF	87	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	91	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	102	(40 - 135)

NOTE (S) :

- Results and reporting limits have been adjusted for dry weight.
- E Estimated result. Result concentration exceeds the calibration range.
- D Result was obtained from the analysis of a dilution.
- CON Confirmation analysis.

BLASLAND BOUCK & LEE INC

Client Sample ID: CCTP-N1-2(0"-6")

Trace Level Organic Compounds

Lot-Sample #....: G3B270243-002 Work Order #....: FJA1V1AA Matrix.....: SOLID
 Date Sampled....: 02/17/03 Date Received...: 02/27/03
 Prep Date.....: 03/01/03 Analysis Date...: 03/05/03
 Prep Batch #....: 3060133
 Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	0.76 <i>EMPC</i>	pg/g	SW846 8290
Total TCDD	4.9		pg/g	SW846 8290
1,2,3,7,8-PeCDD	10		pg/g	SW846 8290
Total PeCDD	44		pg/g	SW846 8290
1,2,3,4,7,8-HxCDD	43		pg/g	SW846 8290
1,2,3,6,7,8-HxCDD	460		pg/g	SW846 8290
1,2,3,7,8,9-HxCDD	58		pg/g	SW846 8290
Total HxCDD	1800		pg/g	SW846 8290
1,2,3,4,6,7,8-HpCDD	13000 <i>EJ</i>		pg/g	SW846 8290
Total HpCDD	25000		pg/g	SW846 8290
OCDD	160000 <i>DJ</i>		pg/g	SW846 8290
2,3,7,8-TCDF	0.96 <i>J/CON</i>		pg/g	SW846 8290
Total TCDF	11		pg/g	SW846 8290
1,2,3,7,8-PeCDF	8.7		pg/g	SW846 8290
2,3,4,7,8-PeCDF	15		pg/g	SW846 8290
Total PeCDF	290		pg/g	SW846 8290
1,2,3,4,7,8-HxCDF	290		pg/g	SW846 8290
1,2,3,6,7,8-HxCDF	67		pg/g	SW846 8290
2,3,4,6,7,8-HxCDF	29		pg/g	SW846 8290
1,2,3,7,8,9-HxCDF	ND	3.0 <i>EMPC</i>	pg/g	SW846 8290
Total HxCDF	5200		pg/g	SW846 8290
1,2,3,4,6,7,8-HpCDF	3800 <i>EJ</i>		pg/g	SW846 8290
1,2,3,4,7,8,9-HpCDF	290		pg/g	SW846 8290
Total HpCDF	21000		pg/g	SW846 8290
OCDF	23000 <i>D</i>		pg/g	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	83	(40 - 135)
13C-1,2,3,7,8-PeCDD	69	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	78	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	118	(40 - 135)
13C-OCDD	120	(40 - 135)
13C-2,3,7,8-TCDF	80	(40 - 135)
13C-1,2,3,7,8-PeCDF	84	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	96	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	121	(40 - 135)

(Continued on next page)

BLASLAND BOUCK & LEE INC

Client Sample ID: CCTP-N1-2(0"-6")

Trace Level Organic Compounds

Lot-Sample #...: G3B270243-002 Work Order #...: FJA1V1AA Matrix.....: SOLID

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

E Estimated result. Result concentration exceeds the calibration range.

D Result was obtained from the analysis of a dilution.

J Estimated result. Result is less than the reporting limit.

CON Confirmation analysis.

BLASLAND BOUCK & LEE INC

Client Sample ID: CCTP-S2-1(11.5'-12.0')

Trace Level Organic Compounds

Lot-Sample #...: G3B270243-003 Work Order #...: FJA121AA Matrix.....: SOLID
 Date Sampled...: 02/17/03 Date Received...: 02/27/03
 Prep Date.....: 03/01/03 Analysis Date...: 03/19/03
 Prep Batch #...: 3060133
 Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	0.12	pg/g	SW846 8290
Total TCDD	1.7		pg/g	SW846 8290
1,2,3,7,8-PeCDD	ND	0.18	pg/g	SW846 8290
Total PeCDD	ND	1.4 <i>EMPC</i>	pg/g	SW846 8290
1,2,3,4,7,8-HxCDD	ND	0.13	pg/g	SW846 8290
1,2,3,6,7,8-HxCDD	ND	0.13	pg/g	SW846 8290
1,2,3,7,8,9-HxCDD	ND	0.18 <i>EMPC</i>	pg/g	SW846 8290
Total HxCDD	ND	0.69 <i>EMPC</i>	pg/g	SW846 8290
1,2,3,4,6,7,8-HpCDD	ND	0.61	pg/g	SW846 8290
Total HpCDD	ND	0.61 ↓	pg/g	SW846 8290
OCDD	ND	3.8 <i>EMPC</i>	pg/g	SW846 8290
2,3,7,8-TCDF	ND	0.097	pg/g	SW846 8290
Total TCDF	ND	0.16 <i>EMPC</i>	pg/g	SW846 8290
1,2,3,7,8-PeCDF	ND	0.11 <i>EMPC</i>	pg/g	SW846 8290
2,3,4,7,8-PeCDF	ND	0.089	pg/g	SW846 8290
Total PeCDF	ND	0.15	pg/g	SW846 8290
1,2,3,4,7,8-HxCDF	ND	0.12 <i>EMPC</i>	pg/g	SW846 8290
1,2,3,6,7,8-HxCDF	ND	0.10	pg/g	SW846 8290
2,3,4,6,7,8-HxCDF	ND	0.10	pg/g	SW846 8290
1,2,3,7,8,9-HxCDF	ND	0.11	pg/g	SW846 8290
Total HxCDF	ND	0.18 <i>EMPC</i>	pg/g	SW846 8290
1,2,3,4,6,7,8-HpCDF	ND	0.35 <i>EMPC</i>	pg/g	SW846 8290
1,2,3,4,7,8,9-HpCDF	ND	0.090	pg/g	SW846 8290
Total HpCDF	ND	0.39 ↓	pg/g	SW846 8290
OCDF	ND	0.49 <i>EMPC</i>	pg/g	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	93	(40 - 135)
13C-1,2,3,7,8-PeCDD	92	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	89	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	101	(40 - 135)
13C-OCDD	108	(40 - 135)
13C-2,3,7,8-TCDF	100	(40 - 135)
13C-1,2,3,7,8-PeCDF	110	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	108	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	105	(40 - 135)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

BLASLAND BOUCK & LEE INC

Client Sample ID: CCTP-S4-2(11.0'-11.5')

Trace Level Organic Compounds

Lot-Sample #...: G3B270243-004 Work Order #...: FJA171AA Matrix.....: SOLID
 Date Sampled...: 02/18/03 Date Received...: 02/27/03
 Prep Date.....: 03/01/03 Analysis Date...: 03/05/03
 Prep Batch #...: 3060133
 Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	0.066	pg/g	SW846 8290
Total TCDD	ND	0.71 <i>EMPC</i>	pg/g	SW846 8290
1,2,3,7,8-PeCDD	ND	0.19	pg/g	SW846 8290
Total PeCDD	ND	0.54	pg/g	SW846 8290
1,2,3,4,7,8-HxCDD	ND	0.21	pg/g	SW846 8290
1,2,3,6,7,8-HxCDD	ND	0.19	pg/g	SW846 8290
1,2,3,7,8,9-HxCDD	ND	0.19	pg/g	SW846 8290
Total HxCDD	ND	0.35	pg/g	SW846 8290
1,2,3,4,6,7,8-HpCDD	ND	0.59 <i>EMPC</i>	pg/g	SW846 8290
Total HpCDD	ND	0.59	pg/g	SW846 8290
OCDD	ND	5.2 <i>EMPC</i>	pg/g	SW846 8290
2,3,7,8-TCDF	ND	0.087	pg/g	SW846 8290
Total TCDF	ND	0.087	pg/g	SW846 8290
1,2,3,7,8-PeCDF	ND	0.11	pg/g	SW846 8290
2,3,4,7,8-PeCDF	ND	0.11	pg/g	SW846 8290
Total PeCDF	ND	0.15	pg/g	SW846 8290
1,2,3,4,7,8-HxCDF	ND	0.37	pg/g	SW846 8290
1,2,3,6,7,8-HxCDF	ND	0.83 <i>EMPC</i>	pg/g	SW846 8290
2,3,4,6,7,8-HxCDF	ND	0.39	pg/g	SW846 8290
1,2,3,7,8,9-HxCDF	ND	0.44	pg/g	SW846 8290
Total HxCDF	ND	1.3	pg/g	SW846 8290
1,2,3,4,6,7,8-HpCDF	ND	0.73	pg/g	SW846 8290
1,2,3,4,7,8,9-HpCDF	ND	0.92	pg/g	SW846 8290
Total HpCDF	ND	0.92	pg/g	SW846 8290
OCDF	ND	0.58 <i>EMPC</i>	pg/g	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	90	(40 - 135)
13C-1,2,3,7,8-PeCDD	81	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	90	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	129	(40 - 135)
13C-OCDD	138 *	(40 - 135)
13C-2,3,7,8-TCDF	93	(40 - 135)
13C-1,2,3,7,8-PeCDF	92	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	106	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	128	(40 - 135)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.
 * Surrogate recovery is outside stated control limits.

BLASLAND BOUCK & LEE INC

Client Sample ID: CCTP-N7-1(16.5'-17.0')

Trace Level Organic Compounds

Lot-Sample #....: G3B270243-005 Work Order #....: FJA181AA Matrix.....: SOLID
 Date Sampled....: 02/19/03 Date Received...: 02/27/03
 Prep Date.....: 03/01/03 Analysis Date...: 03/05/03
 Prep Batch #....: 3060133
 Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	0.12	pg/g	SW846 8290
Total TCDD	20		pg/g	SW846 8290
1,2,3,7,8-PeCDD	ND	0.24	pg/g	SW846 8290
Total PeCDD	7.5		pg/g	SW846 8290
1,2,3,4,7,8-HxCDD	ND	0.16	pg/g	SW846 8290
1,2,3,6,7,8-HxCDD	ND	0.14	pg/g	SW846 8290
1,2,3,7,8,9-HxCDD	ND	0.14	pg/g	SW846 8290
Total HxCDD	ND	3.5	pg/g	SW846 8290
1,2,3,4,6,7,8-HpCDD	ND	1.1 <i>EMPC</i>	pg/g	SW846 8290
Total HpCDD	ND	1.1	pg/g	SW846 8290
OCDD	9.1 <i>J</i>		pg/g	SW846 8290
2,3,7,8-TCDF	ND	0.063	pg/g	SW846 8290
Total TCDF	ND	0.11	pg/g	SW846 8290
1,2,3,7,8-PeCDF	ND	0.079	pg/g	SW846 8290
2,3,4,7,8-PeCDF	ND	0.077	pg/g	SW846 8290
Total PeCDF	ND	0.15	pg/g	SW846 8290
1,2,3,4,7,8-HxCDF	ND	0.20	pg/g	SW846 8290
1,2,3,6,7,8-HxCDF	ND	0.18	pg/g	SW846 8290
2,3,4,6,7,8-HxCDF	ND	0.21	pg/g	SW846 8290
1,2,3,7,8,9-HxCDF	ND	0.24	pg/g	SW846 8290
Total HxCDF	ND	0.24	pg/g	SW846 8290
1,2,3,4,6,7,8-HpCDF	ND	0.71	pg/g	SW846 8290
1,2,3,4,7,8,9-HpCDF	ND	0.89	pg/g	SW846 8290
Total HpCDF	ND	0.89	pg/g	SW846 8290
OCDF	ND	1.5 <i>mPC</i>	pg/g	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	90	(40 - 135)
13C-1,2,3,7,8-PeCDD	80	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	88	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	125	(40 - 135)
13C-OCDD	132	(40 - 135)
13C-2,3,7,8-TCDF	92	(40 - 135)
13C-1,2,3,7,8-PeCDF	93	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	105	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	119	(40 - 135)

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.
 J Estimated result. Result is less than the reporting limit.

BLASLAND BOUCK & LEE INC

Client Sample ID: CCTP-N8-1(0*-6")

Trace Level Organic Compounds

Lot-Sample #....: G3B270243-006 Work Order #....: FJA2A1AA Matrix.. : SOLID
 Date Sampled....: 02/19/03 Date Received...: 02/27/03
 Prep Date.....: 03/01/03 Analysis Date...: 03/05/03
 Prep Batch #....: 3060133
 Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	0.66 E m ³ /c	pg/g	SW846 8290
Total TCDD	2.1		pg/g	SW846 8290
1,2,3,7,8-PeCDD	5.8 J		pg/g	SW846 8290
Total PeCDD	28		pg/g	SW846 8290
1,2,3,4,7,8-HxCDD	20		pg/g	SW846 8290
1,2,3,6,7,8-HxCDD	170		pg/g	SW846 8290
1,2,3,7,8,9-HxCDD	29		pg/g	SW846 8290
Total HxCDD	840		pg/g	SW846 8290
1,2,3,4,6,7,8-HpCDD	4800 E J		pg/g	SW846 8290
Total HpCDD	10000		pg/g	SW846 8290
OCDD	64000 D J		pg/g	SW846 8290
2,3,7,8-TCDF	1.9 CON		pg/g	SW846 8290
Total TCDF	7.6		pg/g	SW846 8290
1,2,3,7,8-PeCDF	13		pg/g	SW846 8290
2,3,4,7,8-PeCDF	15		pg/g	SW846 8290
Total PeCDF	190		pg/g	SW846 8290
1,2,3,4,7,8-HxCDF	190		pg/g	SW846 8290
1,2,3,6,7,8-HxCDF	37		pg/g	SW846 8290
2,3,4,6,7,8-HxCDF	20		pg/g	SW846 8290
1,2,3,7,8,9-HxCDF	5.7 J		pg/g	SW846 8290
Total HxCDF	2500		pg/g	SW846 8290
1,2,3,4,6,7,8-HpCDF	1200		pg/g	SW846 8290
1,2,3,4,7,8,9-HpCDF	160		pg/g	SW846 8290
Total HpCDF	6800		pg/g	SW846 8290
OCDF	5800 D		pg/g	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	84	(40 - 135)
13C-1,2,3,7,8-PeCDD	72	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	84	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	124	(40 - 135)
13C-OCDD	106	(40 - 135)
13C-2,3,7,8-TCDF	82	(40 - 135)
13C-1,2,3,7,8-PeCDF	86	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	98	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	117	(40 - 135)

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BLASLAND BOUCK & LEE INC

Client Sample ID: CCTP-N8-1(0"-6")

Trace Level Organic Compounds

Lot-Sample #....: G3B270243-006 Work Order #....: FJA2A1AA Matrix.....: SOLID

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than the reporting limit.

E Estimated result. Result concentration exceeds the calibration range.

D Result was obtained from the analysis of a dilution.

CON Confirmation analysis.

BLASLAND BOUCK & LEE INC

Client Sample ID: CCTP-S8-2(0"-6")

Trace Level Organic Compounds

Lot-Sample #...: G3B270243-007 Work Order #...: FJA2C1AA Matrix.....: SOLID
 Date Sampled...: 02/19/03 Date Received...: 02/27/03
 Prep Date.....: 03/01/03 Analysis Date...: 03/05/03
 Prep Batch #...: 3060133
 Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	1.4 J		pg/g	SW846 8290
Total TCDD	11		pg/g	SW846 8290
1,2,3,7,8-PeCDD	ND	3.3 EMPC	pg/g	SW846 8290
Total PeCDD	8.9		pg/g	SW846 8290
1,2,3,4,7,8-HxCDD	11		pg/g	SW846 8290
1,2,3,6,7,8-HxCDD	110		pg/g	SW846 8290
1,2,3,7,8,9-HxCDD	23		pg/g	SW846 8290
Total HxCDD	510		pg/g	SW846 8290
1,2,3,4,6,7,8-HpCDD	3900 E J		pg/g	SW846 8290
Total HpCDD	8100		pg/g	SW846 8290
OCDD	39000 E J		pg/g	SW846 8290
2,3,7,8-TCDF	ND CON	0.54	pg/g	SW846 8290
Total TCDF	9.7		pg/g	SW846 8290
1,2,3,7,8-PeCDF	ND	1.4 EMPC	pg/g	SW846 8290
2,3,4,7,8-PeCDF	ND	2.1 EMPC	pg/g	SW846 8290
Total PeCDF	38		pg/g	SW846 8290
1,2,3,4,7,8-HxCDF	44 J		pg/g	SW846 8290
1,2,3,6,7,8-HxCDF	11		pg/g	SW846 8290
2,3,4,6,7,8-HxCDF	4.0 J		pg/g	SW846 8290
1,2,3,7,8,9-HxCDF	ND	0.41 EMPC	pg/g	SW846 8290
Total HxCDF	970		pg/g	SW846 8290
1,2,3,4,6,7,8-HpCDF	940		pg/g	SW846 8290
1,2,3,4,7,8,9-HpCDF	57		pg/g	SW846 8290
Total HpCDF	5100		pg/g	SW846 8290
OCDF	5400		pg/g	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	90	(40 - 135)
13C-1,2,3,7,8-PeCDD	79	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	71	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	76	(40 - 135)
13C-OCDD	69	(40 - 135)
13C-2,3,7,8-TCDF	87	(40 - 135)
13C-1,2,3,7,8-PeCDF	93	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	89	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	86	(40 - 135)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.
 J Estimated result. Result is less than the reporting limit.
 E Estimated result. Result concentration exceeds the calibration range.
 CON Confirmation analysis.

BLASLAND BOUCK & LEE INC

Client Sample ID: CCTP-DUP-1

Trace Level Organic Compounds

Lot-Sample #....: G3B270243-008 Work Order #....: FJA2E1AA Matrix.....: SOLID
 Date Sampled....: 02/19/03 Date Received...: 02/27/03
 Prep Date.....: 03/01/03 Analysis Date...: 03/05/03
 Prep Batch #....: 3060133
 Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	0.60 <i>EmpC</i>	pg/g	SW846 8290
Total TCDD	3.5		pg/g	SW846 8290
1,2,3,7,8-PeCDD	3.9 J		pg/g	SW846 8290
Total PeCDD	13		pg/g	SW846 8290
1,2,3,4,7,8-HxCDD	14		pg/g	SW846 8290
1,2,3,6,7,8-HxCDD	120		pg/g	SW846 8290
1,2,3,7,8,9-HxCDD	28		pg/g	SW846 8290
Total HxCDD	540		pg/g	SW846 8290
1,2,3,4,6,7,8-HpCDD	3400 E J		pg/g	SW846 8290
Total HpCDD	7000		pg/g	SW846 8290
OCDD	43000 D J		pg/g	SW846 8290
2,3,7,8-TCDF	1.8 CON		pg/g	SW846 8290
Total TCDF	5.1		pg/g	SW846 8290
1,2,3,7,8-PeCDF	11		pg/g	SW846 8290
2,3,4,7,8-PeCDF	11		pg/g	SW846 8290
Total PeCDF	110		pg/g	SW846 8290
1,2,3,4,7,8-HxCDF	120		pg/g	SW846 8290
1,2,3,6,7,8-HxCDF	21		pg/g	SW846 8290
2,3,4,6,7,8-HxCDF	15		pg/g	SW846 8290
1,2,3,7,8,9-HxCDF	4.3 J		pg/g	SW846 8290
Total HxCDF	1700		pg/g	SW846 8290
1,2,3,4,6,7,8-HpCDF	920		pg/g	SW846 8290
1,2,3,4,7,8,9-HpCDF	110		pg/g	SW846 8290
Total HpCDF	4900		pg/g	SW846 8290
OCDF	3600 D		pg/g	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	95	(40 - 135)
13C-1,2,3,7,8-PeCDD	85	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	82	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	110	(40 - 135)
13C-OCDD	113	(40 - 135)
13C-2,3,7,8-TCDF	94	(40 - 135)
13C-1,2,3,7,8-PeCDF	97	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	92	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	102	(40 - 135)

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BLASLAND BOUCK & LEE INC

Client Sample ID: CCTP-DUP-1

Trace Level Organic Compounds

Lot-Sample #...: G3B270243-008 Work Order #...: FJA2E1AA Matrix.....: SOLID

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than the reporting limit.

E Estimated result. Result concentration exceeds the calibration range.

D Result was obtained from the analysis of a dilution.

CON Confirmation analysis.

BLASLAND BOUCK & LEE INC

Client Sample ID: CCTP-S20-2(4'-4.5')

Trace Level Organic Compounds

Lot-Sample #....: G3B270243-009 Work Order #....: FJA2F1AA Matrix.....: SOLID
 Date Sampled....: 02/21/03 Date Received...: 02/27/03
 Prep Date.....: 03/01/03 Analysis Date...: 03/05/03
 Prep Batch #....: 3060133
 Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	0.071	pg/g	SW846 8290
Total TCDD	ND	0.61	pg/g	SW846 8290
1,2,3,7,8-PeCDD	ND	0.23	pg/g	SW846 8290
Total PeCDD	ND	2.1	pg/g	SW846 8290
1,2,3,4,7,8-HxCDD	ND	0.14	pg/g	SW846 8290
1,2,3,6,7,8-HxCDD	ND	0.13 <i>EMPC</i>	pg/g	SW846 8290
1,2,3,7,8,9-HxCDD	ND	0.14 <i>EMPC</i>	pg/g	SW846 8290
Total HxCDD	ND	1.9	pg/g	SW846 8290
1,2,3,4,6,7,8-HpCDD	ND	2.4 <i>EMPC</i>	pg/g	SW846 8290
Total HpCDD	ND	2.5	pg/g	SW846 8290
OCDD	8.5 <i>J</i>		pg/g	SW846 8290
2,3,7,8-TCDF	ND	0.063	pg/g	SW846 8290
Total TCDF	ND	0.28	pg/g	SW846 8290
1,2,3,7,8-PeCDF	ND	0.11 <i>EMPC</i>	pg/g	SW846 8290
2,3,4,7,8-PeCDF	ND	0.065	pg/g	SW846 8290
Total PeCDF	ND	0.31	pg/g	SW846 8290
1,2,3,4,7,8-HxCDF	ND	0.14 <i>EMPC</i>	pg/g	SW846 8290
1,2,3,6,7,8-HxCDF	ND	0.10	pg/g	SW846 8290
2,3,4,6,7,8-HxCDF	ND	0.12	pg/g	SW846 8290
1,2,3,7,8,9-HxCDF	ND	0.13	pg/g	SW846 8290
Total HxCDF	ND	0.31	pg/g	SW846 8290
1,2,3,4,6,7,8-HpCDF	ND	0.75	pg/g	SW846 8290
1,2,3,4,7,8,9-HpCDF	ND	0.94	pg/g	SW846 8290
Total HpCDF	ND	0.94	pg/g	SW846 8290
OCDF	ND	0.75 <i>EMPC</i>	pg/g	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	85	(40 - 135)
13C-1,2,3,7,8-PeCDD	77	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	81	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	123	(40 - 135)
13C-OCDD	131	(40 - 135)
13C-2,3,7,8-TCDF	79	(40 - 135)
13C-1,2,3,7,8-PeCDF	94	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	97	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	120	(40 - 135)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.
 J Estimated result. Result is less than the reporting limit.

BLASLAND BOUCK & LEE INC

Client Sample ID: CCTP-S20-3(5.5'-6.0')

Trace Level Organic Compounds

Lot-Sample #...: G3B270243-010 Work Order #...: FJA2G1AA Matrix.....: SOLID
 Date Sampled...: 02/24/03 Date Received...: 02/27/03
 Prep Date.....: 03/01/03 Analysis Date...: 03/05/03
 Prep Batch #...: 3060133
 Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	0.086	pg/g	SW846 8290
Total TCDD	1.2		pg/g	SW846 8290
1,2,3,7,8-PeCDD	ND	0.18	pg/g	SW846 8290
Total PeCDD	ND	2.4	pg/g	SW846 8290
1,2,3,4,7,8-HxCDD	ND	0.14	pg/g	SW846 8290
1,2,3,6,7,8-HxCDD	ND	0.14	pg/g	SW846 8290
1,2,3,7,8,9-HxCDD	ND	0.14	pg/g	SW846 8290
Total HxCDD	ND	1.7	pg/g	SW846 8290
1,2,3,4,6,7,8-HpCDD	ND	1.5 <i>EMPC</i>	pg/g	SW846 8290
Total HpCDD	ND	1.5	pg/g	SW846 8290
OCDD	ND	5.4 <i>EMPC</i>	pg/g	SW846 8290
2,3,7,8-TCDF	ND	0.064	pg/g	SW846 8290
Total TCDF	ND	0.40	pg/g	SW846 8290
1,2,3,7,8-PeCDF	ND	0.099	pg/g	SW846 8290
2,3,4,7,8-PeCDF	ND	0.077	pg/g	SW846 8290
Total PeCDF	ND	0.36	pg/g	SW846 8290
1,2,3,4,7,8-HxCDF	ND	0.15 <i>EMPC</i>	pg/g	SW846 8290
1,2,3,6,7,8-HxCDF	ND	0.088	pg/g	SW846 8290
2,3,4,6,7,8-HxCDF	ND	0.10	pg/g	SW846 8290
1,2,3,7,8,9-HxCDF	ND	0.12	pg/g	SW846 8290
Total HxCDF	ND	0.38	pg/g	SW846 8290
1,2,3,4,6,7,8-HpCDF	ND	0.50	pg/g	SW846 8290
1,2,3,4,7,8,9-HpCDF	ND	0.44	pg/g	SW846 8290
Total HpCDF	ND	0.71	pg/g	SW846 8290
OCDF	ND	0.39 <i>EMPC</i>	pg/g	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	88	(40 - 135)
13C-1,2,3,7,8-PeCDD	88	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	83	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	118	(40 - 135)
13C-OCDD	126	(40 - 135)
13C-2,3,7,8-TCDF	89	(40 - 135)
13C-1,2,3,7,8-PeCDF	95	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	97	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	112	(40 - 135)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

BLASLAND BOUCK & LEE INC

Client Sample ID: CCTP-S22-3(8.5'-9.0')

Trace Level Organic Compounds

Lot-Sample #....: G3B270243-011 Work Order #....: FJA2K1AA Matrix.....: SOLID
 Date Sampled....: 02/24/03 Date Received...: 02/27/03
 Prep Date.....: 03/01/03 Analysis Date...: 03/05/03
 Prep Batch #....: 3060133
 Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	0.11	pg/g	SW846 8290
Total TCDD	0.81		pg/g	SW846 8290
1,2,3,7,8-PeCDD	ND	0.28	pg/g	SW846 8290
Total PeCDD	ND	1.3	pg/g	SW846 8290
1,2,3,4,7,8-HxCDD	ND	0.17	pg/g	SW846 8290
1,2,3,6,7,8-HxCDD	ND	0.16	pg/g	SW846 8290
1,2,3,7,8,9-HxCDD	ND	0.15	pg/g	SW846 8290
Total HxCDD	ND	0.87	pg/g	SW846 8290
1,2,3,4,6,7,8-HpCDD	ND	1.9 <i>EMPC</i>	pg/g	SW846 8290
Total HpCDD	ND	1.9	pg/g	SW846 8290
OCDD	ND <i>£</i>	3.7 <i>EMPC J</i>	pg/g	SW846 8290
2,3,7,8-TCDF	ND	0.084 <i>EMPC</i>	pg/g	SW846 8290
Total TCDF	ND	0.28	pg/g	SW846 8290
1,2,3,7,8-PeCDF	ND	0.11	pg/g	SW846 8290
2,3,4,7,8-PeCDF	ND	0.11	pg/g	SW846 8290
Total PeCDF	ND	0.12	pg/g	SW846 8290
1,2,3,4,7,8-HxCDF	ND	0.13	pg/g	SW846 8290
1,2,3,6,7,8-HxCDF	ND	0.11	pg/g	SW846 8290
2,3,4,6,7,8-HxCDF	ND	0.13	pg/g	SW846 8290
1,2,3,7,8,9-HxCDF	ND	0.15	pg/g	SW846 8290
Total HxCDF	ND	0.31	pg/g	SW846 8290
1,2,3,4,6,7,8-HpCDF	ND	0.48 <i>EMPC</i>	pg/g	SW846 8290
1,2,3,4,7,8,9-HpCDF	ND	0.49	pg/g	SW846 8290
Total HpCDF	ND	0.66	pg/g	SW846 8290
OCDF	ND	0.42 <i>EMPC</i>	pg/g	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	73	(40 - 135)
13C-1,2,3,7,8-PeCDD	65	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	66	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	89	(40 - 135)
13C-OCDD	95	(40 - 135)
13C-2,3,7,8-TCDF	76	(40 - 135)
13C-1,2,3,7,8-PeCDF	75	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	76	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	85	(40 - 135)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

BLASLAND BOUCK & LEE INC

Client Sample ID: CCTP-FB-1

Trace Level Organic Compounds

Lot-Sample #...: G3B270243-012 Work Order #...: FJA2R1AA Matrix.....: WATER
 Date Sampled...: 02/24/03 Date Received...: 02/27/03
 Prep Date.....: 03/05/03 Analysis Date...: 03/14/03
 Prep Batch #...: 3064566
 Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	1.2	pg/L	SW846 8290
Total TCDD	ND	1.2	pg/L	SW846 8290
1,2,3,7,8-PeCDD	ND	2.2	pg/L	SW846 8290
Total PeCDD	ND	2.2	pg/L	SW846 8290
1,2,3,4,7,8-HxCDD	ND	1.7	pg/L	SW846 8290
1,2,3,6,7,8-HxCDD	ND	1.5	pg/L	SW846 8290
1,2,3,7,8,9-HxCDD	ND	1.4	pg/L	SW846 8290
Total HxCDD	ND	2.7 <i>EMPC</i>	pg/L	SW846 8290
1,2,3,4,6,7,8-HpCDD	ND	2.3	pg/L	SW846 8290
Total HpCDD	ND	2.3 <i>EMPC</i>	pg/L	SW846 8290
OCDD	ND	2.6	pg/L	SW846 8290
2,3,7,8-TCDF	ND	0.90	pg/L	SW846 8290
Total TCDF	ND	0.90	pg/L	SW846 8290
1,2,3,7,8-PeCDF	ND	1.6	pg/L	SW846 8290
2,3,4,7,8-PeCDF	ND	1.4	pg/L	SW846 8290
Total PeCDF	ND	1.6	pg/L	SW846 8290
1,2,3,4,7,8-HxCDF	ND	1.2	pg/L	SW846 8290
1,2,3,6,7,8-HxCDF	ND	1.1	pg/L	SW846 8290
2,3,4,6,7,8-HxCDF	ND	1.3	pg/L	SW846 8290
1,2,3,7,8,9-HxCDF	ND	1.4	pg/L	SW846 8290
Total HxCDF	ND	1.4	pg/L	SW846 8290
1,2,3,4,6,7,8-HpCDF	ND	1.5	pg/L	SW846 8290
1,2,3,4,7,8,9-HpCDF	ND	1.8	pg/L	SW846 8290
Total HpCDF	ND	1.8	pg/L	SW846 8290
OCDF	ND	2.9	pg/L	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	88	(40 - 135)
13C-1,2,3,7,8-PeCDD	81	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	98	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	92	(40 - 135)
13C-OCDD	84	(40 - 135)
13C-2,3,7,8-TCDF	87	(40 - 135)
13C-1,2,3,7,8-PeCDF	81	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	95	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	93	(40 - 135)