ARM Group Inc.

Earth Resource Engineers and Consultants

December 22, 2016

Mr. James Calenda
Project Manager
EnviroAnalytics Group (EAG)
1600 Sparrows Point Blvd.
Sparrows Point, Maryland

Re: Delineation and Excavation of PCB and DRO Impacted Soil
Parcel B22 - Tradepoint Atlantic
Sparrows Point, Maryland
ARM Project 160443M-5

Dear Mr. Calenda:

Several locations were identified with exceedances of relevant screening criteria in soil for polychlorinated biphenyls (PCBs) and Diesel Range Organics (DRO) following the Parcel B22 Phase II Investigation at the Tradepoint Atlantic property. The locations of the soil screening criteria exceedances are indicated on **Figure 1**, which also shows the proposed development and environmental capping plan for Parcel B22 (Phase 1). The soil samples from the Phase II Investigation with PCB exceedances included B22-028-SB-1 (74.4 mg/kg) and B22-065-SB-1 (61 mg/kg). The soil samples with elevated DRO detections included B22-162-SB-1 (39,100 mg/kg), B22-163-SB-5 (8,400 mg/kg), B22-070-SB-1 (6,620 mg/kg), B22-148-SB-6 (6,670 mg/kg), and B22-152-SB-6 (6,610 mg/kg). Due to these exceedances, additional delineation and remedial excavation and off-site disposal of impacted material are required prior to the start of redevelopment activities. Per the *Response and Development Work Plan – Revision 3* dated October 7, 2016, soil samples were collected subsequent to excavation activities from each side wall (unless limited by concrete), as well as from the bottom of the excavation, at a minimum of one sample for every 2,000 square feet to confirm when all soils exceeding the soil screening criteria had been removed. If the excavation was limited, laterally or vertically, by concrete, the concrete was cleared of soil and visually inspected for evidence of oil staining.

This document provides a summary of delineation, excavation, and confirmation soil sampling for the required remedial actions. Associated information regarding the disposition of excavated

materials, and the required air monitoring during remedial actions, is also included. Contractors for delineation and excavation included Enterprise Network Resolutions Contracting, LLC (ENR), MCM Management Corp. (MCM), and GSI Mid-Atlantic Inc. (GSI). A photograph log for all of the excavation activities for PCB and DRO impacted soils in Parcel B22 is provided as **Attachment 1**.

Confirmation soil samples were submitted to Pace Analytical Services, Inc. (PACE) and analyzed for PCBs using USEPA Method 8082 or DRO using USEPA Method 8015B, as applicable. Sample containers, preservatives, and holding times for the sample analyses are listed in the Quality Assurance Project Plan (QAPP) Worksheet 19 & 30 – Sample Containers, Preservation, and Holding Times. Laboratory reports for confirmation samples are included as electronic attachments.

PCB Remedial Excavations

Delineation Procedure

Delineation activities associated with previously identified elevated PCB impacts were conducted between August 3 and August 29, 2016 for locations B22-028-SB and B22-065-SB. Following the identification of all utilities in the study area, continuous core soil samples were collected at designated distances (see below) from the location of each soil boring with a track-mounted Geoprobe® direct push rig. At each location, soil samples were collected at 1-foot intervals from 0-5 feet below ground surface (bgs). The samples from 0-1 foot bgs and 4-5 feet bgs were analyzed initially. The remaining intervals (1-2, 2-3, and 3-4 feet bgs) were analyzed if the shallow (0-1 feet bgs) and/or intermediate (4-5 feet bgs) soil samples had PCB concentrations greater than 50 mg/kg. After sampling had been concluded at a location, each hole was backfilled with bentonite chips and all down-hole soil sampling equipment was decontaminated in accordance with the procedures and methods referenced in Field SOP Number 016 provided in Appendix A of the QAPP.

B22-028-SB Delineation

The first round of delineation borings was completed on August 5, 2016 and was based on a grid with 25-foot spacing centered on the elevated PCB detection associated with B22-028-SB (**Figure 2**). During the field investigation, expansive sections of thick, reinforced concrete were encountered in several areas. Multiple attempts were made to collect soil samples from 0-5 feet bgs in the concrete covered locations; however, equipment refusal prevented these samples from being collected. Only samples located on the western side of the B22-028-SB delineation area were able to be collected, and therefore, only eight of the 16 proposed PCB delineation borings were completed within the delineation area. The successful delineation borings were completed to a total depth of 5 feet bgs. **Table 1** presents the results of the total PCB concentrations reported by the laboratory. Three new exceedances of the screening criteria were reported in the shallow soil samples collected from an historic courtyard to the west of B22-028-SB (B22-028C-SB-1, B22-028E-SB-1, and B22-028H-SB-1). Based on the additional detections at the edge of the delineation grid in excess of the screening criteria of 50 mg/kg, further assessment for PCBs was necessary in the vicinity of B22-028-SB.

On August 29, 2016, nine additional delineation borings were completed with a spacing of approximately 20 feet in areas with exposed soil present north and south of the courtyard to confirm the horizontal extent of elevated PCB impacts. Identical sampling procedures were used with this supplemental round of delineation sampling. Only B22-028O-SB-1, which was collected from in an isolated location bounded by concrete, had PCB concentrations above 50 mg/kg. This additional analytical data is presented in **Table 1**.

B22-065-SB Delineation

The first round of delineation borings was completed on August 3 and August 4, 2016. The delineation was based on a grid with 25-foot spacing around boring B22-065-SB (**Figure 3**). Analytical data from B22-064-SB, which is directly to the north of B22-065-SB, indicated that PCB concentrations were below the screening criteria of 50 mg/kg, and therefore, the grid was shifted to provide more extensive coverage to the south. Delineation borings were completed to a total depth of 5 feet bgs in accordance with the approved delineation procedure. **Table 2** presents the results of the total PCB concentrations reported by the laboratory for the delineation borings associated with B22-065-SB. No exceedances of the screening criteria at any depth (with the exception of the initial Phase II Investigation sample B22-065-SB-1) were observed in the first round of delineation borings; therefore, a second round of delineation borings was completed to define the horizontal extent of the potential PCB impacts around B22-065-SB.

On August 29, 2016, four additional delineation borings were completed with 10-foot spacing centered on B22-065-SB (**Figure 3**). Identical sampling procedures were used with this supplemental round of delineation sampling. This additional analytical data is also included in **Table 2**. Again, no exceedances of the screening criteria were observed at any depth in the second round of delineation borings; therefore, the lateral extents of possible PCB impacts were established for excavation.

B22-028-SB Excavation

The proposed excavation was designed to encompass the removal of all accessible impacted soil with PCB concentrations in excess of 50 mg/kg identified in the 0-1 foot bgs interval. The following excavations were completed: B22-028 Main, B22-028 South, and B22-028 East. These excavation areas, along with the locations of the PCB delineation soil borings, are included in **Figure 2**.

On September 15, 2016, the B22-028 Main excavation was completed to a depth of two feet bgs in order to ensure all PCB impacted material was removed from the historic open courtyard. During excavation activities, a concrete trench drain that ran along the east wall of the excavation was uncovered. The trench drain extended from the north and south walls of the excavation to a drop inlet located in the middle of the excavation. The drop inlet was approximately 12 feet deep with a discharge pipe located at the bottom that appeared to run to the north toward a Tin Mill Canal outfall. Also during excavation activities, heavily stained and black-colored material was encountered adjacent to the drop inlet that extended to the western excavation wall. Material was excavated from a 10 x 11 foot impacted area (located within the original excavation area) until all of the heavily stained material was removed and non-impacted material was encountered. The observed soil impacts resulted in the removal of an additional 3

feet of material from within the 10 x 11 foot area. In total, approximately 162 cubic yards of impacted soil and concrete were excavated from B22-028 Main and stockpiled in a designated area located southeast of the excavation.

Upon completion of the excavation, a total of three confirmation soil samples were collected throughout the excavation from both the bottom and sidewalls of the excavation. Of the three confirmation samples, a grab sample was collected from the north sidewall while one composite sample was collected from the bottom of the excavation, and one composite sample was collected from the east sidewall. All sidewall samples were collected from approximately 1 foot below grade. No confirmation samples were collected along the south and west walls because these walls were entirely comprised of concrete. In lieu of collecting a concrete sample, a visual inspection of each concrete wall was completed, which indicated no potential PCB impacts and/or staining. PCB concentrations in excess of 50 mg/kg were not identified in any of the confirmation soil samples.

The B22-028 South and B22-028 East excavations, the extents of which were bounded by concrete, were completed on September 15, 2016. The B22-028 East excavation was centered on B22-028-SB, and the B22-028 South excavation was centered on B22-028O-SB (**Figure 2**). The vertical extent of each excavation was limited to two feet bgs as the PCB concentrations in excess of 50 mg/kg were limited to previously collected 0-1 foot bgs samples. Approximately 2.5 cubic yards of impacted material was removed from each excavation, yielding a total of 5 cubic yards for the B22-028 South and B22-028 East excavations. Once the excavations were completed, the sidewalls were identified as concrete; therefore, the walls were visually inspected, and no evidence of PCB impacts and/or staining was observed. A bottom confirmation sample was collected from each of these excavations.

The concentration of PCBs identified in the bottom soil confirmation sample from the B22-028 East excavation did not exceed 50 mg/kg, while the bottom soil confirmation sample from the B22-028 South excavation had a concentration PCBs of 54.9 mg/kg. Due to this exceedance, approximately 0.5 cubic yards of additional soil was removed on October 4, 2016 to an approximate depth of three feet bgs where potential PCB stained concrete was encountered. A jackhammer attachment was used to break up the concrete in order to collect a sample of the concrete for laboratory analysis. The concrete sample had a PCB concentration of 1 mg/kg (J-flagged). The analytical results from the confirmation soil samples are presented in **Table 3**.

B22-065-SB Excavation

On September 15, 2016, the B22-065 excavation was completed to 2 feet bgs in order to ensure all PCB impacted material was removed. An excavator equipped with a jackhammer attachment was required to break up the concrete slab at grade. Once the concrete was broken up, concrete

and soil potentially impacted by PCBs were removed from the excavation. No PCB impacts and/or staining were observed during the excavation activities. Approximately 7.4 cubic yards of impacted material were removed from this excavation.

Upon completion of the excavation, a total of five confirmation soil samples were collected throughout the excavation from both the bottom and sidewalls of the excavation. A grab sample was collected from the bottom and each of the four sidewalls. All sidewall samples were collected from approximately 1 foot below grade. None of the confirmation soil samples contained PCB concentrations in excess of 50 mg/kg. The excavation boundary and locations of confirmation samples, along with the locations of the PCB delineation soil borings, are included on **Figure 3**. The analytical results from the confirmation soil samples are presented in **Table 3**.

Excavated Material Handling and Disposal

The designated staging area for PCB impacted materials consisted of two stockpile locations, one for soil and one for concrete. Both of the stockpiles were underlain with a polyethylene layer on the ground surface, with multiple straw-bales used as berms, and covered with a polyethylene layer and weighted down. Two composite samples (one soil and one concrete) were collected using materials from multiple locations throughout each stockpile and summited for TCLP analysis to facilitate proper disposal. The laboratory reports have been included as electronic attachments. The excavated PCB impacted soil was loaded into dump trucks for disposal at Wayne Disposal Inc. Site #2 Landfill, Belleville, Michigan. The waste manifests are included as **Attachment 2**.

Air Monitoring

In accordance with the Parcel B22 Response and Development Work Plan dated August 30, 2016 (the governing document at the time of fieldwork), to limit worker exposure to contaminants borne on dust and windblown particulates, dust control measures were to be implemented if dust concentrations exceeded 3.0 mg/m^3. To ensure that this threshold was not exceeded during the PCB excavation activities, a real-time dust meter (ThermoElectron Corporation Personal Data RAM 1000AN) was used to monitor the concentration of dust generated while excavating impacted material. Daily calibration of the real-time dust meter was conducted in accordance with the QAPP to ensure the accuracy of the equipment. Dust concentrations were recorded in the field book by field personnel every 15 minutes during intrusive activities. No dust concentration in exceedance of 3.0 mg/m^3 was noted during the PCB excavation activities.

DRO Excavations

Delineation Procedure

Delineation activities were not conducted prior to the initiation of excavation activities for locations identified with elevated concentrations of DRO. Field personnel directed the excavations based on field indicators of contamination including visual observations of staining, olfactory screening (odors), and elevated Photoionization Detector (PID) readings. Soil removal continued until the boundaries and the bottom of the excavation showed no evidence of contamination (unless otherwise noted). Once the excavation boundaries were established, analytical confirmation samples were collected to determine the need for further action.

B22-162-SB and B22-163-SB Excavation

From September 27 through October 10, 2016, each excavation was completed to a depth of nine feet bgs to remove all DRO impacted material associated with soil borings B22-162-SB and B22-163-SB. An excavator equipped with a jackhammer attachment was required to break up the concrete slab at grade. Once the concrete was broken up, the concrete and potential DRO impacted soil was removed from the subsurface. Concrete not visually impacted by DRO was stockpiled adjacent to the excavation. Approximately 675 cubic yards of DRO impacted material were removed during the excavation activities. The excavated DRO impacted soil was loaded into dump trucks for direct hauling to the on-site industrial landfill (Greys Landfill).

During excavation activities, a total of 10 confirmation soil samples were collected throughout the excavation from both the bottom and sidewalls of the excavation. Nine grab samples were collected from the sidewalls at various depths (ranging from 3-8 feet bgs), and one grab sample was collected from the bottom of the excavation. Samples from various depths ranging from 3-8 feet bgs were collected due to field observations and the varying levels (0-1 bgs and 4-5 bgs) of the DRO concentrations exceeding the soil criteria in the Phase II soil borings. None of the confirmation soil samples contained DRO concentrations in excess of 6,200 mg/kg. The extents of the excavation, and the location of each confirmation sample, are included on **Figure 4**. The analytical results from the confirmation soil samples are presented in **Table 4**.

B22-070-SB Excavation

DRO impacted material was excavated from various depths to remove all impacted material from the B22-070-SB location on October 3, October 4, and October 6, 2016. The deepest section of the excavation was nine feet bgs, and a bench was created to approximately three feet bgs adjacent to the northern boundary of the Main Excavation due to a concrete pad encountered near the surface. Minimal impacts were observed along this concrete pad; therefore, there was

no justification to break up the pad and extend the excavation horizontally to the north (beyond the pad) or vertically to ten feet bgs. A Western Excavation was completed beyond an existing concrete pad (the western boundary of the Main Excavation) to confirm the horizontal extent of DRO impacted soil due its presence along the western wall of the Main Excavation to a depth of five feet bgs. This excavation was completed to six feet bgs around the northern and western walls of the existing concrete pad, and no DRO impacted soil was observed. Also, due to the presence of a utility pipe that was encountered along the eastern wall of the Main Excavation area, a confirmation sample could not be collected. A small Eastern Excavation was subsequently completed to facilitate the collection of a confirmation sample to the east. This additional soil removal extended the excavation approximately nine feet beyond the pipe. No physical impacts were observed within the Eastern Excavation. In total, approximately 405 cubic yards of DRO impacted material was removed from the excavations associated with B22-070-SB. The excavated DRO impacted soil was loaded into dump trucks for direct hauling to the on-site industrial landfill (Greys Landfill).

Upon completion of the excavation, a total of five confirmation soil samples were collected throughout the excavation from both the bottom and sidewalls of the excavation. Two grab samples were collected from the bottom and a single grab sample was collected from each sidewall (north, east, and west). Due to the complexity of the former building slab, a south sidewall confirmation sample was not able to be collected; all other sidewall samples were collected from between 4 and 6 feet bgs. None of the confirmation soil samples contained DRO concentrations in excess of 6,200 mg/kg. The extents of the excavation and the locations of confirmation samples are included on **Figure 5**. The analytical results from the confirmation soil samples are presented in **Table 4**.

B22-148-SB Excavation

DRO impacted material was excavated from 9.5 feet bgs to remove all impacted material from the B22-148 location on October 4, 2016. An excavator equipped with a jackhammer attachment was required to break up slag and a trench drain located at the northwest corner of the excavation. Impacted material was removed once the slag and concrete were broken up. Approximately 282 cubic yards of DRO impacted material were removed from this excavation. Note that this excavation was completed in a “U” shape around a concrete pad in the vicinity of soil boring B22-148-SB.

Upon completion of the excavation, a total of six confirmation soil samples were collected throughout the excavation from both the bottom and sidewalls of the excavation. Three grab samples were collected from the bottom, and a single grab sample was collected from each exterior sidewall (north, east, and west). All sidewall samples were collected from a depth of approximately 6 feet bgs. None of the confirmation soil samples contained DRO concentrations

in excess of 6,200 mg/kg. The extents of the excavation and the locations of confirmation samples are included on **Figure 6**. The analytical results from the confirmation soil samples are presented in **Table 4**.

B22-152-SB Excavation

DRO impacted material was excavated from nine feet bgs to remove all impacted material from the B22-152 location on September 4 to 12, 2016. An excavator equipped with a jackhammer attachment was required to break up a reinforced concrete pad and slag throughout the entire excavation. A soil berm located around the perimeter of the excavation was removed, and since no impacts were observed within this material, it was stockpiled adjacent to the excavation. DRO impacts were observed in soil during the excavation. Once the slag and concrete were broken up, the slag and concrete not visually impacted by DRO was stockpiled adjacent to the excavation, and the impacted soil was removed. Based on field observations, the excavation was extended as necessary to ensure the removal of all impacted soil. Approximately 1,720 cubic yards of DRO impacted soil were removed from this excavation and loaded into dump trucks for direct hauling and disposal at the on-site industrial landfill (Greys Landfill).

Upon completion of the excavation, a total of seven confirmation soil samples were collected throughout the excavation from both the bottom and sidewalls of the excavation. Two grab samples were collected from the bottom, and a grab sample was collected from each sidewall (north, south, east, west and the northeast extension). All sidewall samples were collected from 6 feet bgs. None of the confirmation soil samples contained DRO concentrations in excess of 6,200 mg/kg. The extents of the excavation and the locations of confirmation samples are included on **Figure 7**. The analytical results from the confirmation soil samples are presented in **Table 4**.

Excavated Material Handling and Disposal

The excavated DRO impacted soil was loaded into dump trucks for direct hauling to the on-site industrial landfill (Greys Landfill).

Air Monitoring

In accordance with the Parcel B22 Response and Development Work Plan dated August 30, 2016 (the governing document at the time of fieldwork), air monitoring was completed during the DRO excavation activities. A hand-held PID (MiniRae 3000), was utilized to monitor the air for volatile organic compound (VOC) vapors. If sustained vapor concentrations were measured at or above 10 parts per million (ppm) for 15 minutes in the breathing zone, work would have immediately ceased until such time as appropriate action was established. No sustained readings

for VOCs were observed during the DRO excavation activities. Daily calibration of the PID with 100 ppm Isobutylene was completed per the QAPP to ensure accurate readings by the equipment. A field judgment call was made that dust monitoring was not required during the DRO excavation activities because no visual indications of dust were observed by field personnel and most of the soil being excavated was slag or clay material.

If you have any questions or require additional information please do not hesitate to contact the undersigned at 410-290-7775. Thank you very much.

Respectfully Submitted,
ARM Group Inc.

Eric S. Magdar
Senior Geologist

Attachments:

Table 1 – B22-028-SB PCB Analytical Results
Table 2 – B22-065-SB PCB Analytical Results
Table 3 – PCB Confirmation Sample Results
Table 4 – DRO Confirmation Sample Results
Figure 1 – Parcel B22 PCB & DRO Excavation Locations
Figure 2 – B22-028-SB Excavation
Figure 3 – B22-065-SB Excavation
Figure 4 – B22-162-SB & B22-163-SB Excavation
Figure 5 – B22-070-SB Excavation
Figure 6 – B22-148-SB Excavation
Figure 7 – B22-152-SB Excavation
Attachment 1 – Excavation Photograph Log
Attachment 2 – PCB Waste Manifests
Electronic Attachment – PCB Soil Confirmation Sample Laboratory Reports
Electronic Attachment – DRO Soil Confirmation Sample Laboratory Reports
Electronic Attachment – TCLP Sample Laboratory Reports

TABLES

Table 1 - B22-028-SB
PCB Analytical Results

Depth (ft) Boring ID	1		2		3		4		5	
B22-028A-SB-1	20.8									
B22-028A-SB-5									0.0723	
B22-028B-SB-1	28									
B22-028B-SB-5									0.277	
B22-028C-SB-1	61.9									
B22-028C-SB-2			0.526							
B22-028C-SB-3					0.058	J				
B22-028C-SB-4							0.0562	U		
B22-028D-SB-1	1.7									
B22-028D-SB-5									0.0622	U
B22-028E-SB-1	203									
B22-028E-SB-2			2.01							
B22-028E-SB-3					0.062	U				
B22-028E-SB-4							0.059	U		
B22-028E-SB-5									0.0492	J
B22-028F-SB-1	7.27									
B22-028F-SB-5									0.0603	U
B22-028G-SB-1	38									
B22-028G-SB-5									0.0668	U
B22-028H-SB-1	159									
B22-028H-SB-2			33.2							
B22-028H-SB-3					0.117					
B22-028H-SB-4							0.058	U		
B22-028H-SB-5									0.0558	U
B22-028I-SB-1	0.758									
B22-028I-SB-5									0.0532	U
B22-028J-SB-1	0.53									
B22-028J-SB-5									0.055	U
B22-028K-SB-1	37.6									
B22-028K-SB-5									0.0622	U
B22-028L-SB-1	0.0553	U								
B22-028L-SB-5									0.0632	U
B22-028M-SB-1	4.48									
B22-028N-SB-1	0.0686									
B22-028O-SB-1	311									
B22-028O-SB-2			0.5726							
B22-028O-SB-3					0.46					
B22-028O-SB-4							0.116			
B22-028O-SB-5									0.121	
B22-028P-SB-1	31.9									
B22-028P-SB-5									0.0917	
B22-028Q-SB-1	3.787									
B22-028Q-SB-5									0.0668	U
B22-028R-SB-1	9.94									
B22-028R-SB-5									0.0623	U
B22-028S-SB-1	1.0048									
B22-028S-SB-5									0.0572	U
B22-028T-SB-1	4.887									
B22-028T-SB-5									0.0576	U

Notes:
All reported values are in units of mg/kg.
Red cells indicate PCB exceedance of excavation criteria (50 mg/kg)
U: This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.
J: The positive result reported for this analyte is a quantitative estimate.

Table 2 - B22-065-SB
PCBs Analytical Results

Depth (ft) Boring ID	0.5		1		2		3		4		5	
B22-065D-SB-1			0.4036									
B22-065D-SB-4									0.285			
B22-065E-SB-1			2.4182									
B22-065E-SB-4									0.154			
B22-065F-SB-0.5	0.2094											
B22-065F-SB-1			0.0609	U								
B22-065F-SB-2					0.0582	U						
B22-065G-SB-1			0.3055									
B22-065G-SB-5												
B22-065H-SB-1			0.713									
B22-065H-SB-3							0.0712	U				
B22-065I-SB-1			0.0557	U								
B22-065I-SB-5											0.4142	
B22-065J-SB-1			0.0604	U								
B22-065J-SB-5											0.0629	U
B22-065K-SB-1			0.619									
B22-065K-SB-5											0.0608	U
B22-065L-SB-1			0.0603	U								
B22-065L-SB-5											0.0655	U
B22-065M-SB-1			0.0667									
B22-065M-SB-5											0.0578	U
B22-065N-SB-1			0.0565	U								
B22-065N-SB-5											0.062	U
B22-065O-SB-1			0.0588	U								
B22-065O-SB-5											0.0586	U
B22-065P-SB-1			0.0613	U								
B22-065Q-SB-1			0.0615	U								
B22-065Q-SB-5											0.0593	U
B22-065R-SB-1			0.0606	U								
B22-065R-SB-5											0.0642	U

Notes:
All reported values are in units of mg/kg.
U: This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.

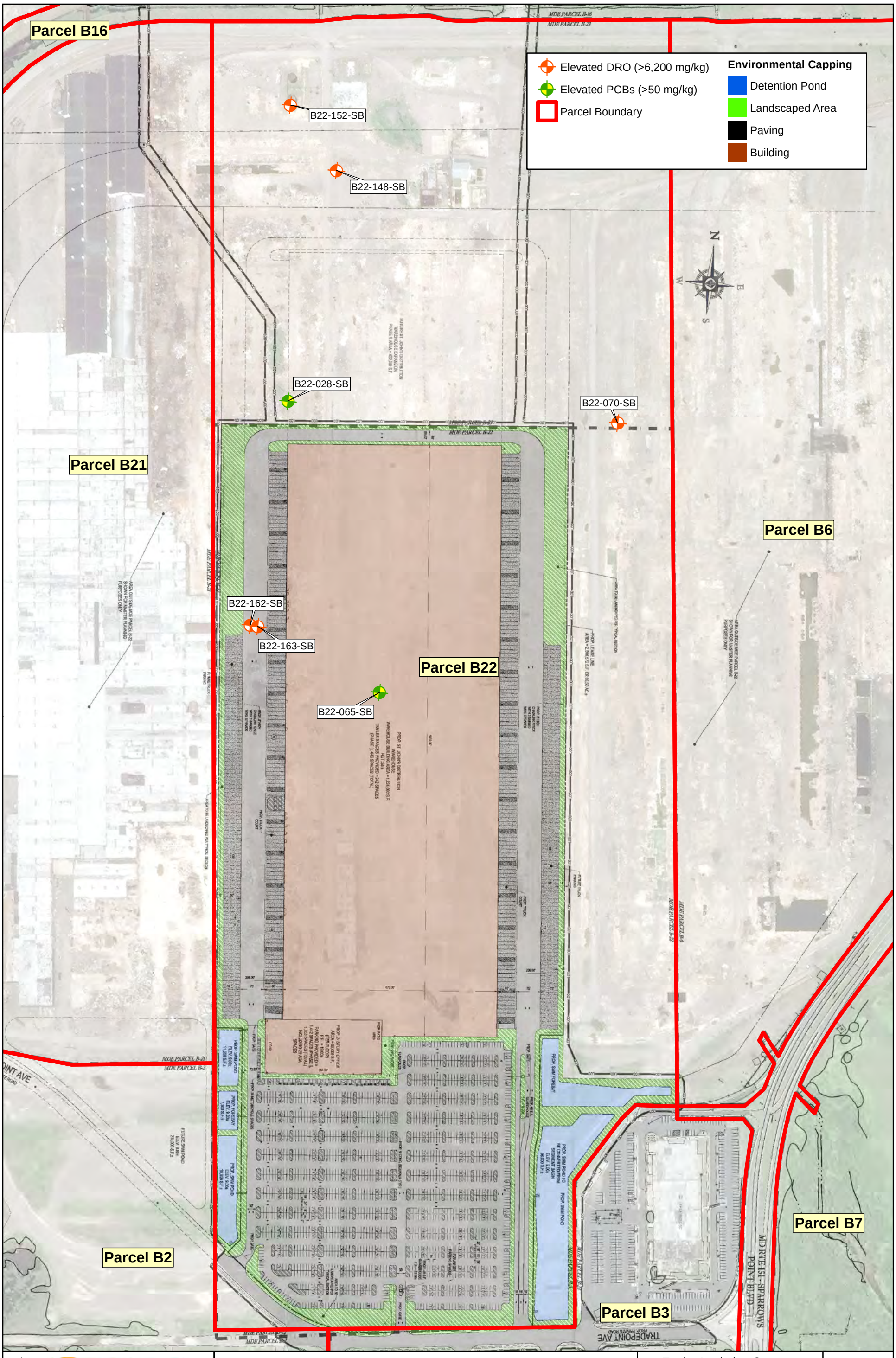
Table 3 - PCB Confirmation Sample Results				
Confirmation Sample ID	Sample Date	Analyte	Result (mg/kg)	Flag
B22-028 MAIN BOTTOM	09/15/2016	Total PCBs	1.34	
B22-028 MAIN NORTH SIDEWALL	09/15/2016	Total PCBs	32.4	
B22-028 MAIN EAST SIDEWALL	09/15/2016	Total PCBs	47.9	
B22-028 SOUTH EXCAVATION BOTTOM	09/15/2016	Total PCBs	54.9	
B22-028 SOUTH BOTTOM	10/6/2016	Total PCBs	1.0	J
B22-028 EAST EXCAVATION BOTTOM	09/15/2016	Total PCBs	2.73	
B22-065 BOTTOM	09/15/2016	Total PCBs	0.532	
B22-065 SOUTH SIDEWALL	09/15/2016	Total PCBs	0.0603	U
B22-065 NORTH SIDEWALL	09/15/2016	Total PCBs	0.0596	U
B22-065 EAST SIDEWALL	09/15/2016	Total PCBs	0.0708	U
B22-065 WEST SIDEWALL	09/15/2016	Total PCBs	0.0605	U

Notes:
Red cells indicate PCB exceedance of excavation criteria (50 mg/kg).
U: This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.
J: Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

Table 4 - DRO Confirmation Sample Results				
Confirmation Sample ID	Sample Date	Analyte	Result (mg/kg)	Flag
B22-070A-SB-10	10/03/2016	Diesel Range Organics	21.8	
B22-070-North Side	10/04/2016	Diesel Range Organics	2	
B22-070-East Side	10/06/2016	Diesel Range Organics	4	J
B22-070-West Bottom	10/06/2016	Diesel Range Organics	5.7	J
B22-070-West Side	10/06/2016	Diesel Range Organics	6.3	J
B22-148 East Bottom	10/04/2016	Diesel Range Organics	519	
B22-148 East Side	10/04/2016	Diesel Range Organics	59.2	
B22-148 North Bottom	10/04/2016	Diesel Range Organics	698	
B22-148 North Wall	10/04/2016	Diesel Range Organics	279	
B22-148 West Bottom	10/04/2016	Diesel Range Organics	526	
B22-148 West Side	10/04/2016	Diesel Range Organics	493	
B22-152-6 E Wall	10/12/2016	Diesel Range Organics	1,700	
B22-152-6 N Wall	10/12/2016	Diesel Range Organics	1,720	
B22-152-6 NE Wall	10/12/2016	Diesel Range Organics	2,060	
B22-152-6 South Wall	10/07/2016	Diesel Range Organics	223	
B22-152-6 West Wall	10/07/2016	Diesel Range Organics	2,690	
B22-152-9 NW Bottom	10/12/2016	Diesel Range Organics	2,690	
B22-152-9 SE Bottom	10/12/2016	Diesel Range Organics	3,150	
B22-162A-SB-6	10/03/2016	Diesel Range Organics	12	
B22-162B-4	09/28/2016	Diesel Range Organics	96.6	
B22-162C-4	09/28/2016	Diesel Range Organics	12.1	
B22-162D-6	09/28/2016	Diesel Range Organics	290	
B22-162E-8	09/28/2016	Diesel Range Organics	4.6	J
B22-162F-5	09/28/2016	Diesel Range Organics	14	
B22-162G-SB-4	10/03/2016	Diesel Range Organics	4.7	J
B22-162H-SB-5	10/03/2016	Diesel Range Organics	13.2	
B22-162I-SB-3	10/03/2016	Diesel Range Organics	3.6	J
B22-163-8.5 Bottom	10/10/2016	Diesel Range Organics	6	J

Notes:
U: This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.
J: Estimated concetration above the adjusted method detection limit and below the adjusted reporting limit.

FIGURES



ARM Group Inc.
Earth Resource Engineers and Consultants

0 125 250 500 Feet

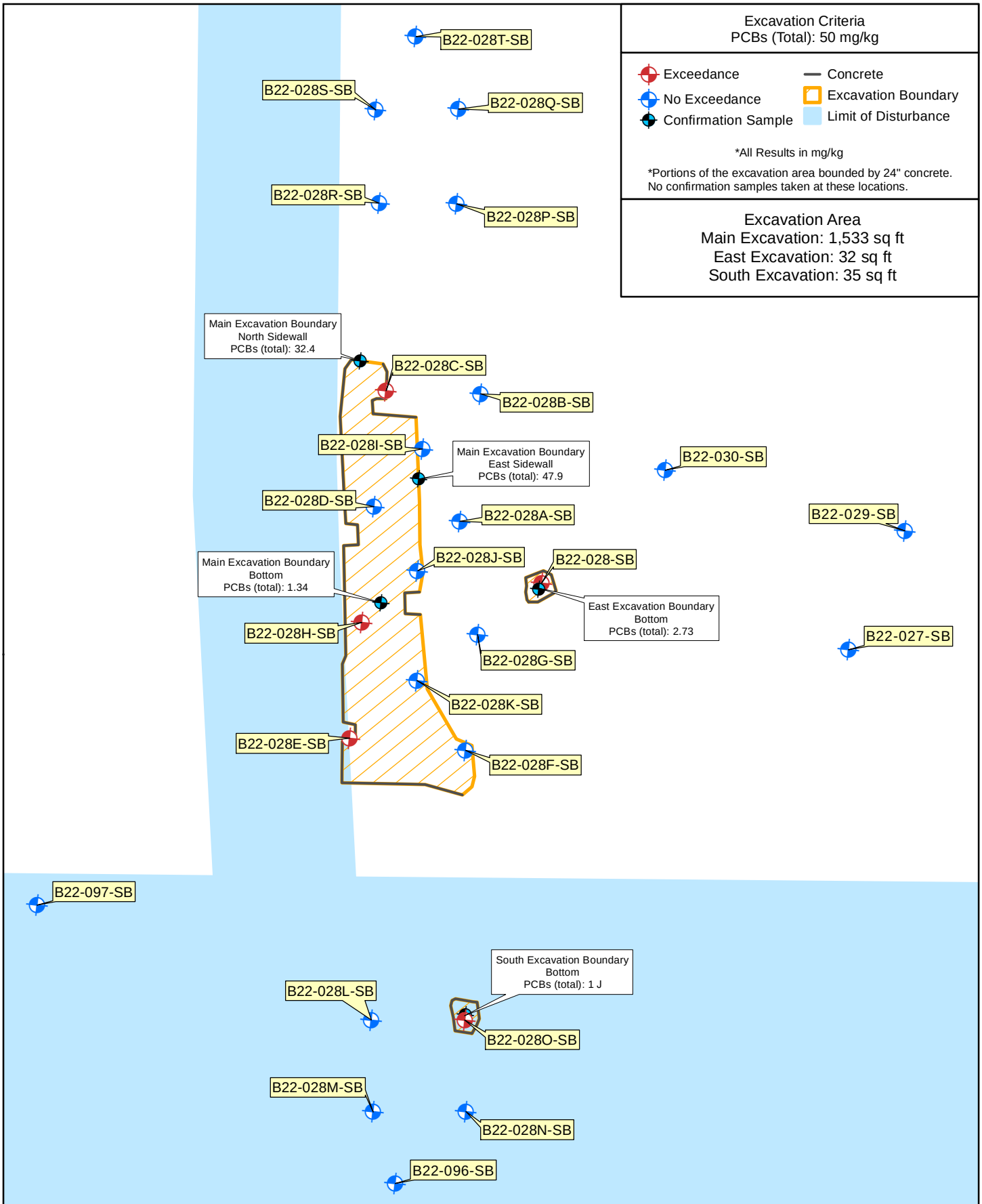
Parcel B22: PCB & DRO Excavation Locations
Proposed Development Plan

November 15, 2016

EnviroAnalytics Group
ARM Project 160443M-5

Tradepoint Atlantic
Baltimore County, MD

Figure 1



ARM Group Inc.
Earth Resource Engineers and Consultants

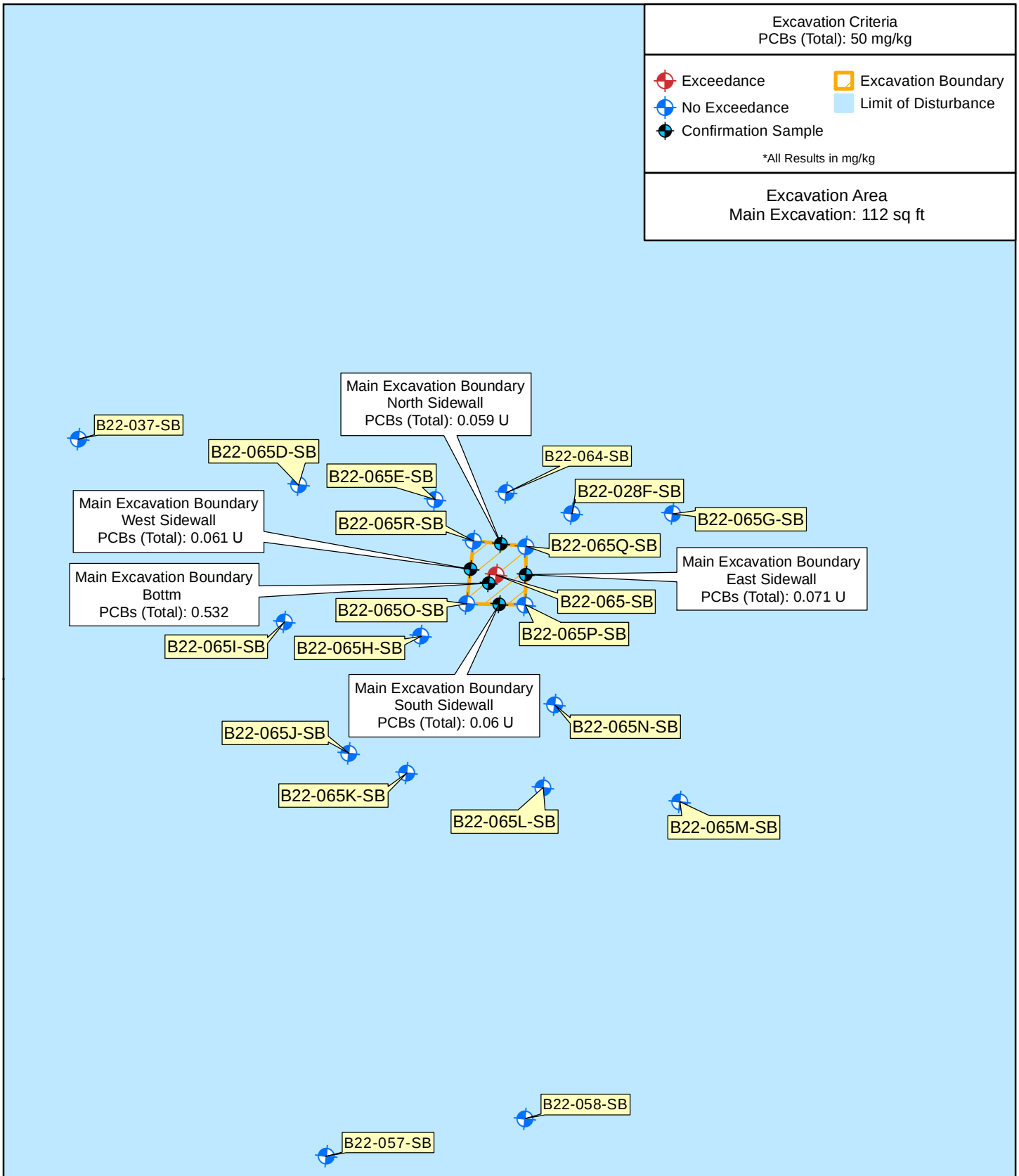
B22-028-SB Excavation
Aerial View

November 11, 2016

EnviroAnalytics Group
ARM Project 160443M-5

Tradepoint Atlantic
Baltimore County, MD

Figure
2



ARM Group Inc.
Earth Resource Engineers and Consultants

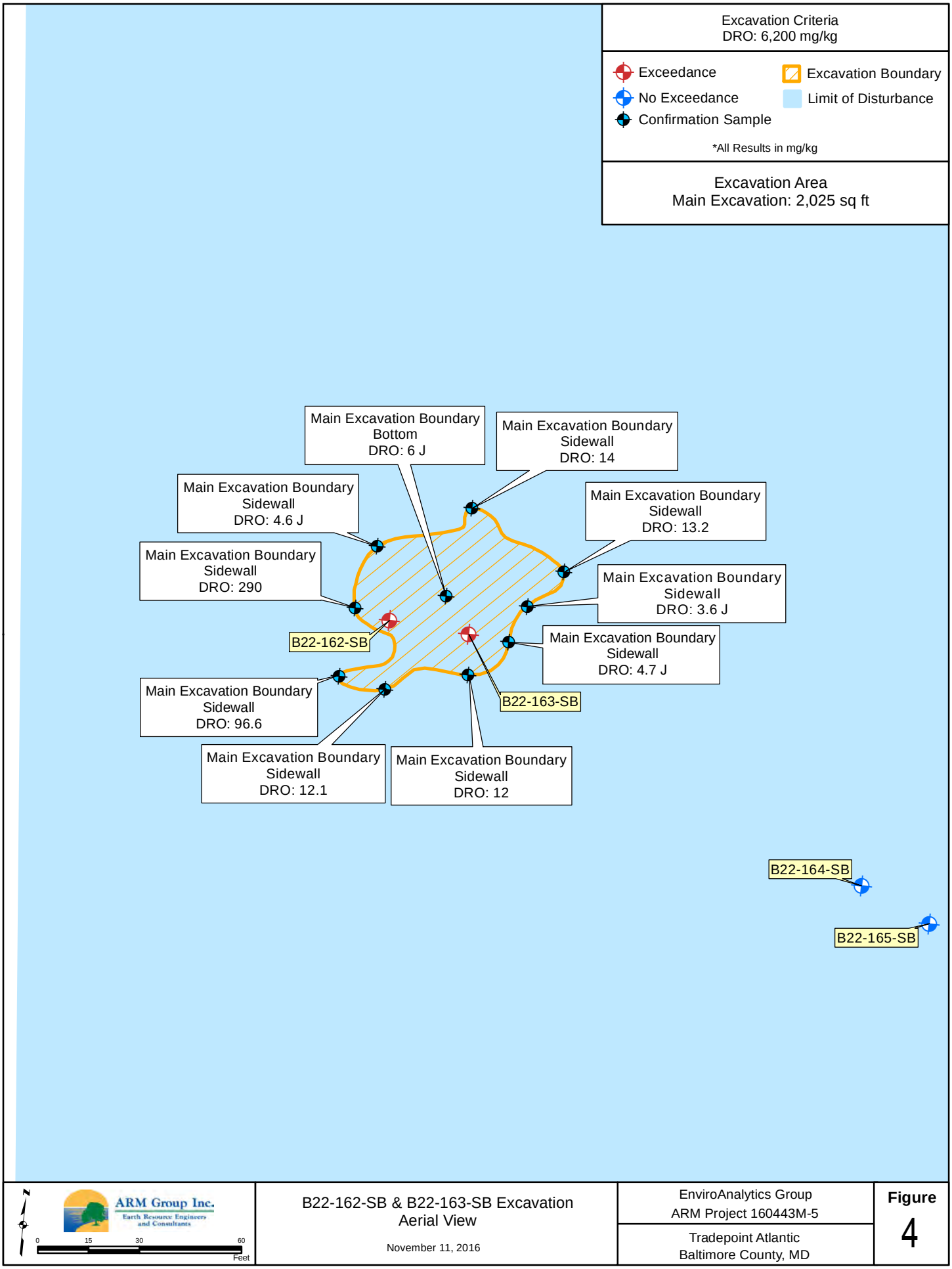
B22-065-SB Excavation
Aerial View

November 11, 2016

EnviroAnalytics Group
ARM Project 160443M-5

Tradepoint Atlantic
Baltimore County, MD

Figure
3



B22-162-SB & B22-163-SB Excavation
Aerial View

November 11, 2016

EnviroAnalytics Group
ARM Project 160443M-5

Tradepoint Atlantic
Baltimore County, MD

Figure
4

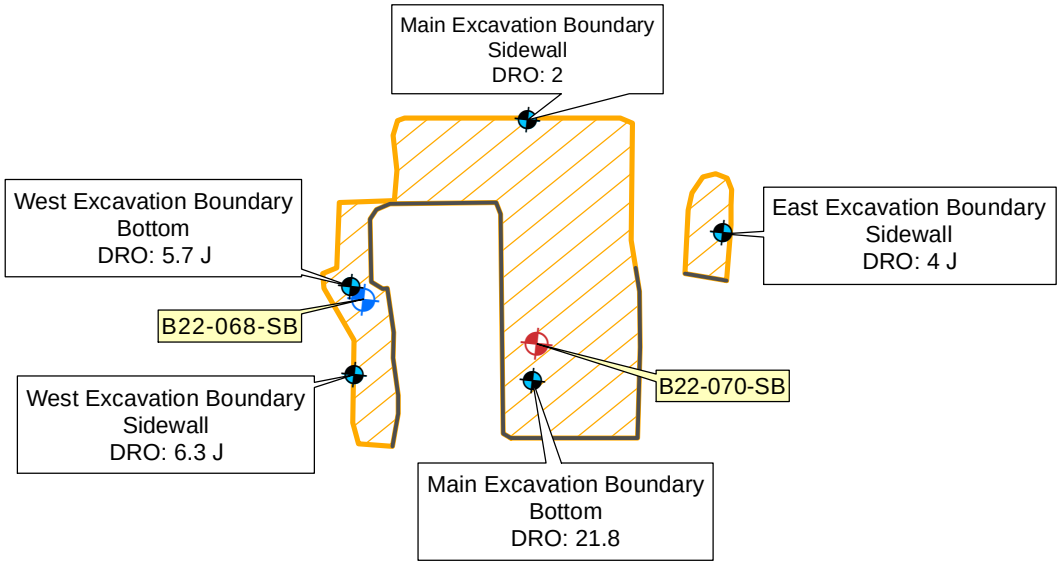
Excavation Criteria
DRO: 6,200 mg/kg

Exceedance
No Exceedance
Confirmation Sample
Concrete
Excavation Boundary
Limit of Disturbance

*All Results in mg/kg

*Portions of the excavation area bounded by 24" concrete. No confirmation samples taken at these locations.

Excavation Area
Main Excavation: 1,228 sq ft
East Excavation: 98 sq ft
West Excavation: 245 sq ft



N

ARM Group Inc.
Earth Resource Engineers and Consultants

0 10 20 40
Feet

B22-070-SB Excavation
Aerial View

November 14, 2016

EnviroAnalytics Group
ARM Project 160443M-5

Tradepoint Atlantic
Baltimore County, MD

Figure
5

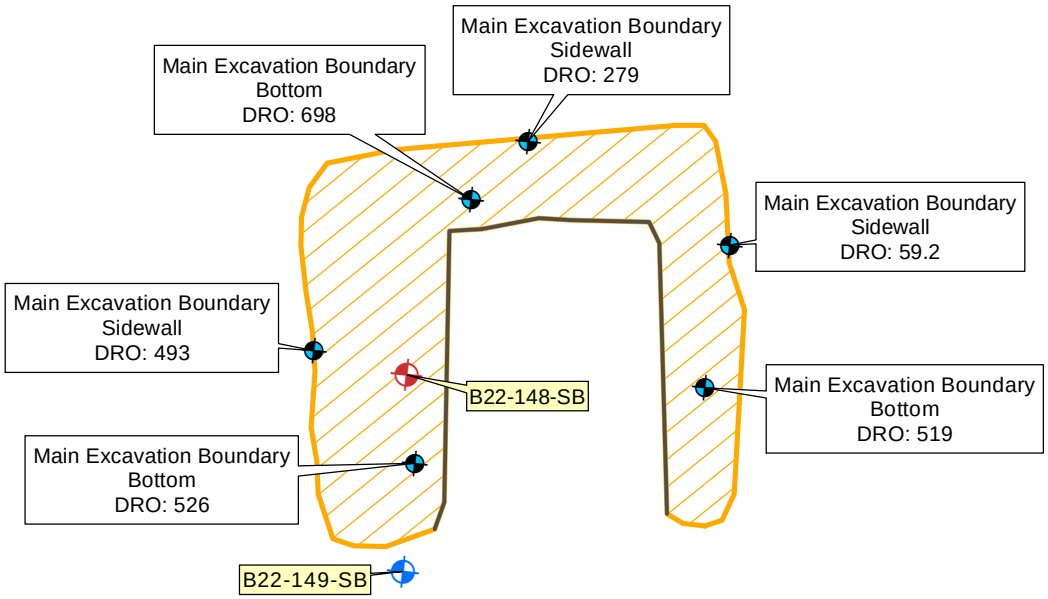
Excavation Criteria
DRO: 6,200 mg/kg

Exceedance
No Exceedance
Confirmation Sample
Concrete
Excavation Boundary
Limit of Disturbance

*All Results in mg/kg

*Portions of the excavation area bounded by 24" concrete. No confirmation samples taken at these locations.

Excavation Area
Main Excavation: 802 sq ft



N

0 5 10 20
Feet

ARM Group Inc.
Earth Resource Engineers and Consultants

B22-148-SB Excavation
Aerial View

November 11, 2016

EnviroAnalytics Group
ARM Project 160443M-5

Tradepoint Atlantic
Baltimore County, MD

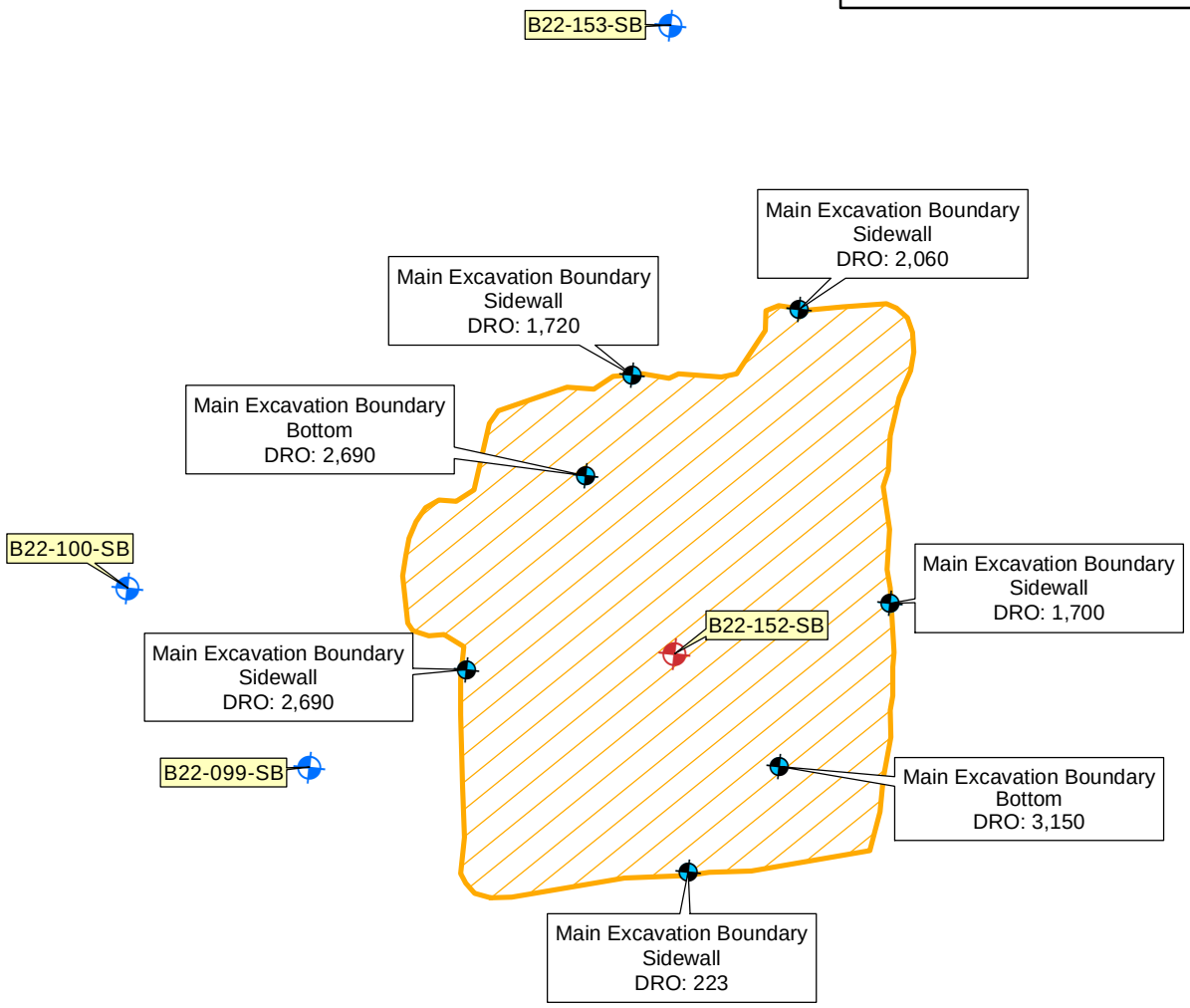
Figure
6

Excavation Criteria
DRO: 6,200 mg/kg

Exceedance
No Exceedance
Confirmation Sample
Excavation Boundary
Limit of Disturbance

*All Results in mg/kg

Excavation Area
Main Excavation: 5,160 sq ft



ARM Group Inc.
Earth Resource Engineers and Consultants

0 10 20 40
Feet

B22-152-SB Excavation
Aerial View

November 14, 2016

EnviroAnalytics Group
ARM Project 160443M-5

Tradepoint Atlantic
Baltimore County, MD

Figure
7

Attachment 1

Parcel B22: B22-065 Excavation
Photograph Log
Sparrows Point, Maryland

B22-065 excavation limits and use of hammer attachment to break up the first 8-10" of the reinforced concrete pad and removal of impacted material.

B22-065 excavation completed to a depth of 2 feet below ground surface. Four sidewall confirmation samples and one bottom confirmation sample was collected.

Parcel B22: B22-028 Excavation
Photograph Log
Sparrows Point, Maryland

B22-028 East excavation limits prior to break up of the first 8-10” of the reinforced concrete pad and removal of impacted material.

B22-028 East excavation completed to a depth of 2 feet below ground surface. All four sidewalls composed of either concrete, with no visible staining, and/or large gravel therefore only a bottom confirmation sample was taken.

Parcel B22: B22-028 Excavation
Photograph Log
Sparrows Point, Maryland

B22-028 South excavation limits prior to removal of impacted material.

B22-028 South excavation completed to a depth of 2 feet below ground surface. Three of the four sidewalls composed of concrete, with no visible staining, and the northern portion of this excavation had no sidewall therefore only a bottom confirmation sample was taken.

Parcel B22: B22-028 Excavation
Photograph Log
Sparrows Point, Maryland

B22-028 Main excavation limits prior to removal of impacted material.

Excavation activities along the northern section of the B22-028 Main excavation.

Parcel B22: B22-028 Excavation
Photograph Log
Sparrows Point, Maryland

Impacted material observed in the middle of the Main excavation adjacent to the trench manhole. An additional three feet of impacted material was removed.

A view of the north wall of the additional impacted material observed in the middle of the Main excavation adjacent to the trench manhole.

Parcel B22: B22-028 Excavation
Photograph Log
Sparrows Point, Maryland

View of the french drain observed within the Main excavation. The french drain extends from the north wall to the south wall within the excavated area.

View of the french drain connected to the manhole facing north.

Parcel B22: B22-028 Excavation
Photograph Log
Sparrows Point, Maryland

View of the east wall of the completed Main Excavation facing northwest.

View of the south and east wall of the completed Main Excavation facing southeast.

Parcel B22: PCB IDW
Photograph Log
Sparrows Point, Maryland

View of the PCB stockpiled material area setup prior to placement of impacted material. Poly is setup along the ground surface with hail-bails used as berms.

View of the covered PCB stockpiles at the conclusion of the PCB excavations. Soil and concrete materials were segregated and stockpiled separately.

Parcel B22: B22-070 Excavation
Photograph Log
Sparrows Point, Maryland

View of the B22-070 excavation, facing south, prior excavation activities.

View of impacted material observed along the east wall of the main excavation area.

Parcel B22: B22-070 Excavation
Photograph Log
Sparrows Point, Maryland

View of impacted material observed along the south wall of the main excavation area.

View of impacted material and the utility pipe observed along the east wall of the main excavation area. Highly impacted material was observed between the utility pipe and the bottom of the slab above it.

Parcel B22: B22-070 Excavation
Photograph Log
Sparrows Point, Maryland

View of impacted material observed along the west wall of the main excavation area.

View of concrete box located in the northwest corner of the main excavated area. The benched area, approximately three feet below grade, is seen beyond the end of the concrete box.

Parcel B22: B22-070 Excavation
Photograph Log
Sparrows Point, Maryland

View of impacted material observed along the concrete box. The non-impacted benched area is located in front of the concrete box.

View of the location of the east excavation area facing south.

Parcel B22: B22-070 Excavation
Photograph Log
Sparrows Point, Maryland

View of the west excavation, facing south, to confirm the horizontal extent of impacts.

View of the west excavation, facing north, to confirm the horizontal extent of impacts.

Parcel B22: B22-162 & B22-163 Excavation
Photograph Log
Sparrows Point, Maryland

View of the completed B22-162 & B22-163 excavation facing east.

View of the east impacted material along the bottom in the northeast corner.

Parcel B22: B22-162 & B22-163 Excavation
Photograph Log
Sparrows Point, Maryland

View of product observed on the bottom of the excavation.

View of the impacted excavated material.

Parcel B22: B22-162 & B22-163 Excavation
Photograph Log
Sparrows Point, Maryland

View of the west wall of the completed excavation.

View of the north wall of the completed excavation.

Parcel B22: B22-162 & B22-163 Excavation
Photograph Log
Sparrows Point, Maryland

View of the west wall of the completed excavation.

View of the east wall of the completed excavation.

Parcel B22: B22-162 & B22-163 Excavation
Photograph Log
Sparrows Point, Maryland

View of the south wall of the completed excavation.

Parcel B22: B22-148 Excavation
Photograph Log
Sparrows Point, Maryland

View of the excavation activities at B22-148 excavation.

View of the french drain observed in the northwest corner of the excavation.

Parcel B22: B22-148 Excavation
Photograph Log
Sparrows Point, Maryland

View of the MCM excavator with the jack hammer attachment used to break-up the french drain and slag.

View of the western side interior wall.

Parcel B22: B22-148 Excavation
Photograph Log
Sparrows Point, Maryland

View of the eastern side of the excavation and interior east wall.

View of the northern side of the excavation and north interior wall.

Parcel B22: B22-152 Excavation
Photograph Log
Sparrows Point, Maryland

View of the proposed B22-152 excavation area encompassing the former tank's pad.

View of significantly impacted material, facing north, located adjacent to a potential fill pipe for the former tank. This area is located along the western wall of the excavation.

Parcel B22: B22-152 Excavation
Photograph Log
Sparrows Point, Maryland

View of the MCM excavator with the jackhammer attachment used to break-up the slag throughout the excavation.

View of the material under the tank pad slag. Minor impacts were observed in this area. No impacts were observed on the tank's concrete pad and support ring.

Parcel B22: B22-152 Excavation
Photograph Log
Sparrows Point, Maryland

View of the MCM and ENR equipment completing excavation activities.

View of the northeast corner extension, due to significant impacts, and product observed on the bottom of the excavation.

Parcel B22: B22-152 Excavation
Photograph Log
Sparrows Point, Maryland

View of the west wall extension due to significant impacts observed. The product pipe was routed through this area.

View of the south wall of the completed excavation.

Parcel B22: B22-152 Excavation
Photograph Log
Sparrows Point, Maryland

View of the north wall of the completed excavation facing north.

View of the east wall of the completed excavation facing east.

Parcel B22: B22-152 Excavation
Photograph Log
Sparrows Point, Maryland

View of the west wall of the completed excavation facing northwest.

View of the completed excavation facing southeast.

Parcel B22: B22-152 Excavation
Photograph Log
Sparrows Point, Maryland

View of the completed excavation facing north.

Attachment 2

SPARROWS POINT
TSCA SOILS - US ECOLOGY
Load Log

Load	Date	Ticket	Ton	Total
1	10/31/2016	1270535	21.67	
2	10/31/2016	1270538	22.87	
3	10/31/2016	1270554	26.14	
4	11/1/2016	1270607	22.69	
5	11/2/2016	1270658	24.11	
6	11/2/2016	1270674	25.27	
7	11/2/2016	1270675	23.79	
8	11/3/2016	1270716	22.51	
Total				189.05

Wayne Disposal, Inc.

49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

ENTERPRISE NETWORK RESOLUTIONS
874 PINEY HOLLOW ROAD
P O BOX 70
WINSLOW, NJ 08095

Receipt ID: 1270535
EQ Account #: 11931
Manifest / BOL: 016675154JJK
Transporter: HORWITH
Date: 10/31/2016
Time In: 9:00 AM
Time Out: 10:19 AM

Line	Description Generator	Qty. Unit
1 - 1	J165130WDI - PCB Soil	21.670 TONS
	Hazardous Surcharge Ton	21.670 TONS
	MDD053945432 ENVIRO ANALYTICS GROUP	
	Gross: 74,220 **Tare:** 30,880 **Net:** 43,340	
2	Wayne Disposal Host Community Agreement Royalty Fee	21.670 TONS
	MDD053945432 ENVIRO ANALYTICS GROUP	
	Gross: 74,220 **Tare:** 30,880 **Net:** 43,340	

NO SALVAGING ON PREMISES

#2

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: MDD 053 945 432
2. Page 1 of: 1
3. Emergency Response Phone: 314-620-3056
4. Manifest Tracking Number: 016675154 JJK

5. Generator's Name and Mailing Address: ENVIRO ANALYTICS GROUP, 1650 DE PERES RD, SUITE 203, ST LOUIS, MO 63131
Generator's Site Address (if different than mailing address): 1600 SPARROWS POINT BLVD, SPARROWS POINT, MD 21219
Generator's Phone:

6. Transporter 1 Company Name: Horwith Trucks Inc — U.S. EPA ID Number: PAD 146714B78
7. Transporter 2 Company Name: — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL INC. SITE #2 LANDFI, 49350 N I-94 SERVICE DRIVE, BELLEVILLE, MI 48111 — U.S. EPA ID Number: MID 048 090 633
Facility's Phone: (800) 592-5489

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, mixture, 9, PGII, ERG #171	001	DT	Est 23,000	P	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
J165130WDI / PCB Soil
use Lodestar

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: James Calenda — Signature: [signature] — Month/Day/Year: 10 28 16

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:
Transporter signature (for exports only):

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Clayton Wheland — Signature: [signature] — Month/Day/Year: 10 28 16
Transporter 2 Printed/Typed Name: — Signature: — Month/Day/Year:

18. Discrepancy
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
actual weight 19700 K per Patrick Whitworth Enviro.com. SB 11/2/16
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number:
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. PCB 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Chris Grissom — Signature: [signature] — Month/Day/Year: 10 31 16

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

9590710

Invoice: 263354

Receipt 03-00 1270535

Cod COD #3

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB Solid

and specified on Manifest # 011475154WK, Line Item ____ has been landfilled on

Oct 31, 2014 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: Evelyn Bostrom

Wayne Disposal, Inc.
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

ENTERPRISE NETWORK RESOLUTIONS
874 PINEY HOLLOW ROAD
P O BOX 70
WINSLOW, NJ 08095

Receipt ID: 1270538
EQ Account #: 11931
Manifest / BOL: 016674000JJK
Transporter: HORWITH
Date: 10/31/2016
Time In: 9:09 AM
Time Out: 10:22 AM

Line	Description Generator	Qty. Unit
1 - 1	J165130WDI - PCB Soil	22.870 TONS
	Hazardous Surcharge Ton	22.870 TONS
	MDD053945432 ENVIRO ANALYTICS GROUP	
	Gross: 76,100 **Tare:** 30,360 **Net:** 45,740	
2	Wayne Disposal Host Community Agreement Royalty Fee	22.870 TONS
	MDD053945432 ENVIRO ANALYTICS GROUP	
	Gross: 76,100 **Tare:** 30,360 **Net:** 45,740	

NO SALVAGING ON PREMISES

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: MDD 053 945 432
2. Page 1 of: 1
3. Emergency Response Phone: 314-620-3056
4. Manifest Tracking Number: 016674000 JJK

5. Generator's Name and Mailing Address: ENVIRO ANALYTICS GROUP
1650 DE PERES RD
SUITE 203
ST LOUIS, MO 63131
Generator's Phone:

Generator's Site Address (if different than mailing address)
1600 SPARROWS POINT BLVD
SPARROWS POINT, MD 21219

6. Transporter 1 Company Name: Horwith Trucks Inc.
U.S. EPA ID Number: PAD146714878

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFI
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, mixture, 9, PGII, ERG #171	001	DT	Est 23000	~~KGS~~ LBS	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. J185130WDI / PCB Soil

0500 10/28/16

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: James Calenda
Signature:
Month Day Year: 10 28 16

INTL
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER
17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Michael NEFF
Signature:
Month Day Year: 10 28 16
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year:

DESIGNATED FACILITY
18. Discrepancy
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
actual weight 20791 kgs per Patrick Whitworth verbal on 11/2/16
Manifest Reference Number:
18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month Day Year:
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. PCB 2. 3. 4.
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Chris Crissom
Signature:
Month Day Year: 10 31 16

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Invoice: 263354

Receipt 03-00 1270538

Cod COD #3

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB Solid

and specified on Manifest # 014674000 JJK, Line Item 1 has been landfilled on

Oct 31, 2016 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: Brooke Bostwick

Wayne Disposal, Inc.
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

ENTERPRISE NETWORK RESOLUTIONS
874 PINEY HOLLOW ROAD
P O BOX 70
WINSLOW, NJ 08095

Receipt ID: 1270554
EQ Account #: 11931
Manifest / BOL: 016675153JJK
Transporter: HORWITH
Date: 10/31/2016
Time In: 10:31 AM
Time Out: 12:11 PM

Line	Description Generator	Qty. Unit
1 - 1	J165130WDI - PCB Soil	26.140 TONS
	Hazardous Surcharge Ton	26.140 TONS
	MDD053945432 ENVIRO ANALYTICS GROUP	
	Gross: 83,000 **Tare:** 30,720 **Net:** 52,280	
2	Wayne Disposal Host Community Agreement Royalty Fee	26.140 TONS
	MDD053945432 ENVIRO ANALYTICS GROUP	
	Gross: 83,000 **Tare:** 30,720 **Net:** 52,280	

NO SALVAGING ON PREMISES

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	MDD 053 945 432	1	314-620-3056	016675153 JJK

5. Generator's Name and Mailing Address: ENVIRO ANALYTICS GROUP
1650 DE PERES RD
SUITE 203
ST LOUIS, MO 63131
Generator's Phone:

Generator's Site Address (if different than mailing address):
1600 SPARROWS POINT BLVD
SPARROWS POINT, MD 21219

6. Transporter 1 Company Name: HORWITH TRUCKS INC — U.S. EPA ID Number: PAD 146714878

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFI — U.S. EPA ID Number: MID 048 090 633
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1 UN3432, Polychlorinated biphenyls, solid, mixture, 9, PGII, ERG #171	1	DT	22,000	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
J165130WDI / PCB Soil

SSD: 10-20-16

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: James Calenda — Signature — Month 10 Day 28 Year 16

INTL
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:
Transporter signature (for exports only):

TRANSPORTER
17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: MICHAEL KABACINSKI — Signature — Month 10 Day 28 Year 16
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY
18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: CHAD GORSUCH — Signature — Month 10 Day 31 Year 16

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

9590619

Invoice: 263354

Receipt 03-00 1270554

Cod COD #3

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB Solid

and specified on Manifest # 016675553 WK, Line Item 1 has been landfilled on

Oct 31, 2016 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: Brooke Bostwick

Wayne Disposal, Inc.
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

ENTERPRISE NETWORK RESOLUTIONS
874 PINEY HOLLOW ROAD
P O BOX 70
WINSLOW, NJ 08095

Receipt ID: 1270607
EQ Account #: 11931
Manifest / BOL: 016675151JJK
Transporter: HORWITH
Date: 11/01/2016
Time In: 8:36 AM
Time Out: 9:17 AM

Line	Description Generator	Qty. Unit
1 - 1	J165130WDI - PCB Soil	22.690 TONS
	Hazardous Surcharge Ton	22.690 TONS
	MDD053945432 ENVIRO ANALYTICS GROUP	
	Gross: 77,060 **Tare:** 31,680 **Net:** 45,380	
2	Wayne Disposal Host Community Agreement Royalty Fee	22.690 TONS
	MDD053945432 ENVIRO ANALYTICS GROUP	
	Gross: 77,060 **Tare:** 31,680 **Net:** 45,380	

NO SALVAGING ON PREMISES

428

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: MDD 053 945 432
2. Page 1 of 1
3. Emergency Response Phone: 314-620-3646
4. Manifest Tracking Number: 016675151 JJK

5. Generator's Name and Mailing Address: ENVIRO ANALYTICS GROUP, 1650 DE PERES RD, SUITE 203, ST LOUIS, MO 63131
Generator's Phone:
Generator's Site Address (if different than mailing address): 1600 SPARROWS POINT BLVD, SPARROWS POINT, MD 21219

6. Transporter 1 Company Name: Horwith Trucks Inc. — U.S. EPA ID Number: PAD 146 714 878
7. Transporter 2 Company Name: — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFI, 49350 N I-94 SERVICE DRIVE, BELLEVILLE, MI 48111 — U.S. EPA ID Number: MID 048 090 633
Facility's Phone: (800) 592-5489

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, mixture, 9, PGII, ERG #171	1	DT	Est 22	T	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
J165130WDI / PCB Soil

050 10-28-16

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: James Calenda — Signature: [signature] — Month/Day/Year: 10 28 16

16. International Shipments: ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:
Transporter signature (for exports only):

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Glenn Hauk — Signature: [signature] — Month/Day/Year: 10 31 16
Transporter 2 Printed/Typed Name: — Signature: — Month/Day/Year:

18. Discrepancy
18a. Discrepancy Indication Space: ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
actual weight 26627 kg per Patrick Whitworth w/ ERC Corr. BB 11/3/16
ok to correct section 12 per Patrick Whitworth w/ ERC Corr. BB 11/3/16
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number:
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. PCB 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Chris Grissom — Signature: [signature] — Month/Day/Year: 11 1 16

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.
DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Invoice: 263970

Receipt 03-00 1270607

Cod COD #3

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB solid

and specified on Manifest # 016607575KUK, Line Item 1 has been landfilled on

Nov 1, 2016 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: Brenda Bastian

US ECOLOGY 49350 N. I-94 SERVICE DRIVE BELLEVILLE, MICHIGAN 48111

Wayne Disposal, Inc.
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

ENTERPRISE NETWORK RESOLUTIONS
874 PINEY HOLLOW ROAD
P O BOX 70
WINSLOW, NJ 08095

Receipt ID: 1270658
EQ Account #: 11931
Manifest / BOL: 016675150JJK
Transporter: HORWITH
Date: 11/02/2016
Time In: 8:02 AM
Time Out: 8:38 AM

Line	Description Generator	Qty. Unit
1 - 1	J165130WDI - PCB Soil	24.110 TONS
	Hazardous Surcharge Ton	24.110 TONS
	MDD053945432 ENVIRO ANALYTICS GROUP	
	Gross: 79,380 **Tare:** 31,160 **Net:** 48,220	
2	Wayne Disposal Host Community Agreement Royalty Fee	24.110 TONS
	MDD053945432 ENVIRO ANALYTICS GROUP	
	Gross: 79,380 **Tare:** 31,160 **Net:** 48,220	

NO SALVAGING ON PREMISES

#421

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: MDD 053 945 432
2. Page 1 of: 1
3. Emergency Response Phone: 314-620-3056
4. Manifest Tracking Number: 016675150 JJK

5. Generator's Name and Mailing Address: ENVIRO ANALYTICS GROUP
1650 DE PERES RD
SUITE 203
ST LOUIS, MO 63131

Generator's Site Address (if different than mailing address):
1600 SPARROWS POINT BLVD
SPARROWS POINT, MD 21219

Generator's Phone:

6. Transporter 1 Company Name: Horwith Trucks Inc — U.S. EPA ID Number: PAD 146714878

7. Transporter 2 Company Name: — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFI
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, mixture, 9, PGII, ERG #171	01	DT	Est 22000	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
J165130WDI / PCB Soil

SSD 10-2716

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: James Calenda — Signature: [signature] — Month/Day/Year: 10 28 16

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: John Krum — Signature: [signature] — Month/Day/Year: 11 1 16
Transporter 2 Printed/Typed Name: — Signature: — Month/Day/Year:

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number:
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Mike [signature] — Signature: [signature] — Month/Day/Year: 11 2 16

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

Invoice: 263970

Receipt 03-00 1270658

Cod COD #2

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB Solids

and specified on Manifest # 016675750JK, Line Item 1 has been landfilled on

Nov 7, 2016 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: Brenda Bastarache

Wayne Disposal, Inc.
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

ENTERPRISE NETWORK RESOLUTIONS
874 PINEY HOLLOW ROAD
P O BOX 70
WINSLOW, NJ 08095

Receipt ID: 1270674
EQ Account #: 11931
Manifest / BOL: 016675152JJK
Transporter: HORWITH
Date: 11/02/2016
Time In: 11:45 AM
Time Out: 12:49 PM

Line	Description Generator	Qty. Unit
1 - 1	J165130WDI - PCB Soil	25.270 TONS
	Hazardous Surcharge Ton	25.270 TONS
	MDD053945432 ENVIRO ANALYTICS GROUP	
	Gross: 83,240 **Tare:** 32,700 **Net:** 50,540	
2	Wayne Disposal Host Community Agreement Royalty Fee	25.270 TONS
	MDD053945432 ENVIRO ANALYTICS GROUP	
	Gross: 83,240 **Tare:** 32,700 **Net:** 50,540	

NO SALVAGING ON PREMISES

TK 25

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	MDD 053 945 432	1	314-620-3056	016675152 JJK

5. Generator's Name and Mailing Address: ENVIRO ANALYTICS GROUP
1650 DE PERES RD
SUITE 203
ST LOUIS, MO 63131
Generator's Phone:

Generator's Site Address (if different than mailing address)
1600 SPARROWS POINT BLVD
SPARROWS POINT, MD 21219

6. Transporter 1 Company Name: Horwith Trucks Inc — U.S. EPA ID Number: PAD146714878

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFI
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
GENERATOR	X	1. UN3432, Polychlorinated biphenyls, solid, mixture, 9, PGII, ERG #171	001	DT	28000	K	PCB1
		2.					
		3.					
		4.					

14. Special Handling Instructions and Additional Information
J185130WDI / PCB Soil

550: 11-146

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: James Calenda — Signature: [signature] — Month: 11 Day: 01 Year: 16

INT'L
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER
17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Clayton Wheland — Signature: [signature] — Month: 11 Day: 01 Year: 16
Transporter 2 Printed/Typed Name — Signature — Month: Day: Year:

DESIGNATED FACILITY
18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) Month: Day: Year:
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Chris Grissom — Signature: [signature] — Month: 11 Day: 21 Year: 16

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

9597584

Invoice: 263970

Receipt 03-00 1270674

Cod COD #3

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB Soil

and specified on Manifest # 016675752 WK, Line Item 1 has been landfilled on

Nov 2, 2016 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: Brooke Bostwick

US ECOLOGY 49350 N. I-94 SERVICE DRIVE BELLEVILLE, MICHIGAN 48111

Wayne Disposal, Inc.

49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

ENTERPRISE NETWORK RESOLUTIONS
874 PINEY HOLLOW ROAD
P O BOX 70
WINSLOW, NJ 08095

Receipt ID: 1270675
EQ Account #: 11931
Manifest / BOL: 016673980JJK
Transporter: HORWITH
Date: 11/02/2016
Time In: 11:48 AM
Time Out: 12:53 PM

Line	Description Generator	Qty. Unit
1 - 1	J165130WDI - PCB Soil	23.790 TONS
	Hazardous Surcharge Ton	23.790 TONS
	MDD053945432 ENVIRO ANALYTICS GROUP	
	Gross: 79,640 **Tare:** 32,060 **Net:** 47,580	
2	Wayne Disposal Host Community Agreement Royalty Fee	23.790 TONS
	MDD053945432 ENVIRO ANALYTICS GROUP	
	Gross: 79,640 **Tare:** 32,060 **Net:** 47,580	

NO SALVAGING ON PREMISES

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	MDD 053 945 432	1	314-620-3056	016673980 JJK

5. Generator's Name and Mailing Address: ENVIRO ANALYTICS GROUP
1650 DE PERES RD
SUITE 203
ST LOUIS, MO 63131
Generator's Phone:

Generator's Site Address (if different than mailing address):
1600 SPARROWS POINT BLVD
SPARROWS POINT, MD 21219

6. Transporter 1 Company Name: Horwith Trucks Inc — U.S. EPA ID Number: PAD 146714878

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFI
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, UN3432, Polychlorinated biphenyls, solid, mixture, 9, PGII, ERG #171	001	DT	23,000	KG	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
J165130WDI / PCB Soil
Unique container id _____ Storage start date 10/31/16

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: James Calenda — Signature — Month 11 Day 1 Year 16

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: _____
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Chris Grimsell — Signature — Month 11 Day 1 Year 16

Transporter 2 Printed/Typed Name: Michael Neff — Signature — Month 11 Day 1 Year 16

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Jonathan Evans — Signature — Month 11 Day 2 Year 16

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

9597573

Invoice: 263970

Receipt 03-00 1270675

Cod COD #2

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as Pe Bsolid

and specified on Manifest # 016678960JJK, Line Item 1 has been landfilled on

Nov 2, 2016 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: Brenda Bystrom

Wayne Disposal, Inc.
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

ENTERPRISE NETWORK RESOLUTIONS
874 PINEY HOLLOW ROAD
P O BOX 70
WINSLOW, NJ 08095

Receipt ID: 1270716
EQ Account #: 11931
Manifest / BOL: 016675149JJK
Transporter: HORWITH
Date: 11/03/2016
Time In: 7:45 AM
Time Out: 8:21 AM

Line	Description Generator	Qty. Unit
1 - 1	J165130WDI - PCB Soil	22.510 TONS
	Hazardous Surcharge Ton	22.510 TONS
	MDD053945432 ENVIRO ANALYTICS GROUP	
	Gross: 76,060 **Tare:** 31,040 **Net:** 45,020	
2	Wayne Disposal Host Community Agreement Royalty Fee	22.510 TONS
	MDD053945432 ENVIRO ANALYTICS GROUP	
	Gross: 76,060 **Tare:** 31,040 **Net:** 45,020	

NO SALVAGING ON PREMISES

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: MDD 053 945 432
2. Page 1 of: 1
3. Emergency Response Phone: 314-620-3056
4. Manifest Tracking Number: 016675149 JJK

5. Generator's Name and Mailing Address: ENVIRO ANALYTICS GROUP
1650 DE PERES RD
SUITE 203
ST LOUIS, MO 63131
Generator's Phone:

Generator's Site Address (if different than mailing address):
1600 SPARROWS POINT BLVD
SPARROWS POINT, MD 21219

6. Transporter 1 Company Name: Horwith Trucks Inc — U.S. EPA ID Number: PAD146714878

7. Transporter 2 Company Name: — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFI
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, mixture, 9, PGII, ERG #171	001	DT	25,000	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
. J165130WDI / PCB Soil

SSD: 11-2-16

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: James Calender — Signature: [signature] — Month/Day/Year: 11 2 16

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: ____ Date leaving U.S.: ____
Transporter signature (for exports only):

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Chris Grinnell — Signature: [signature] — Month/Day/Year: 11 2 16
Transporter 2 Printed/Typed Name: — Signature: — Month/Day/Year:

18. Discrepancy
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
actual weight 20464 Kgh per Patrick Whitworth of ENRCon. SB 11/8/16
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number:
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. PCB 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Tanya Cowgar — Signature: [signature] — Month/Day/Year: 11 03 16

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

9594073

Invoice: 263970

Receipt 03-00 1270716

Cod COD #2

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB solid

and specified on Manifest # 016670149JJK, Line Item 1 has been landfilled on

NOV 3, 2016 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: Brenda Bostwick

US ECOLOGY 49350 N. I-94 SERVICE DRIVE BELLEVILLE, MICHIGAN 48111