

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

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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<sup>3</sup>. 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<sup>3</sup> 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 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 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

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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.

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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-SBPCB Analytical Results										
Depth (ft) Boring ID	1	1	2		3	3 4			5	
B22-028A-SB-1	20.8									
B22-028A-SB-5	20.0								0.0723	
B22-028B-SB-1	28								0.0725	
B22-028B-SB-5	20								0.277	
B22-028C-SB-1	61.9								0.277	
B22-028C-SB-2	01.7		0.526							
B22-028C-SB-3			0.520		0.058	J				
B22-028C-SB-4					0.050	5	0.0562	U		
B22-028C-SB-4 B22-028D-SB-1	1.7						0.0502	0		
B22-028D-SB-5	1.7								0.0622	U
B22-028E-SB-1	203								0.0022	0
B22-028E-SB-2	205		2.01							
B22-028E-SB-3			2.01		0.062	U				
B22-028E-SB-4					0.002	0	0.059	U		
B22-028E-SB-5							0.039	0	0.0492	J
B22-028E-SB-3 B22-028F-SB-1	7.27								0.0492	J
B22-028F-SB-5	1.21								0.0603	U
B22-028G-SB-1	38								0.0003	0
B22-028G-SB-5	30								0.0668	U
B22-028U-SB-3 B22-028H-SB-1	159								0.0008	0
B22-028H-SB-2	139		33.2							
			55.2		0.117					
B22-028H-SB-3					0.117		0.059	TT		
B22-028H-SB-4 B22-028H-SB-5							0.058	U	0.0558	II
B22-028I-SB-3 B22-028I-SB-1	0.758								0.0558	U
B22-028I-SB-5	0.738								0.0532	U
B22-028I-SB-3 B22-028J-SB-1	0.53								0.0332	U
B22-028J-SB-1 B22-028J-SB-5	0.55								0.055	U
	27.6								0.055	0
B22-028K-SB-1	37.6								0.0622	TT
B22-028K-SB-5	0.0552	TT							0.0622	U
B22-028L-SB-1	0.0553	U							0.0622	TT
B22-028L-SB-5	4.40								0.0632	U
B22-028M-SB-1	4.48									
B22-028N-SB-1	0.0686									
B22-028O-SB-1	311		0.5726							
B22-028O-SB-2			0.5726		0.46					
B22-028O-SB-3					0.46		0.116			
B22-028O-SB-4							0.116		0.121	
B22-028O-SB-5	21.0								0.121	
B22-028P-SB-1	31.9								0.0017	
B22-028P-SB-5	2 7 9 7								0.0917	
B22-028Q-SB-1	3.787								0.0669	TT
B22-028Q-SB-5	0.04								0.0668	U
B22-028R-SB-1	9.94								0.0000	TT
B22-028R-SB-5	1.00.10								0.0623	U
B22-028S-SB-1	1.0048								0.0572	T.7
B22-028S-SB-5	4.007								0.0572	U
B22-028T-SB-1	4.887								0.0	
B22-028T-SB-5									0.0576	U

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-SBPCBs 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

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				

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	Sample Date Analyte		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			

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















Attachment 1



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.



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.



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.



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



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



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.



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.



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.



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.



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.



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.



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.


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.



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



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



View of product observed on the bottom of the excavation.



View of the impacted excavated material.



View of the west wall of the completed excavation.



View of the north wall of the completed excavation.



View of the west wall of the completed excavation.



View of the east wall of the completed excavation.



View of the south wall of the completed excavation.



View of the excavation activities at B22-148 excavation.



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



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.



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



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



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.



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.



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.



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.



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



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



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



View of the completed excavation facing southeast.



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	12 <b>706</b> 74	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	Receipt ID:	1270535
	874 PINEY HOLLOW ROAD	EQ Account #:	11931
		Manifest / BOL:	016675154JJK
	WINSLOW, NJ 08095	Transporter:	HORWITH
		Date:	10/31/2016
		Time In:	9:00 AM
		Time Out:	10:19 AM
Line	Description	Qty. Unit	······································
	Generator		
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		

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CERTIFICA	ATE OF	DISPOSA	١L
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: Jacob Way,	(EPA I.D. # MID048090633) 49350 N. I-94 Service Drive, Belleville, Michigan 48111 Telephone: I-800-KWALITY (592-5489) Fax: I-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.	This certificate is to verify the wastes identified as <i>PLBSqLop</i> and specified on Manifest # <i>b/1L/L757/57L/L/L</i> , Line Item has been landfilled on <i>Oct31</i> , <i>Zolloin</i> accordance with all local, state and federal regulations by: Wayne Disposal, Inc	FOR MANIFESTED PCB WASTE

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US ECOLOGY 49350 N. I-94 SERVICE DRIVE BELLEVILLE, MICHIGAN 48111 The olocimonic varsion of this document is the controlled varsion. Each user is responsible for ensuing their any document being used is the current version.

From #REC-FM-030-BEL

51/15

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

	Receipt		
	ENTERPRISE NETWORK RESOLUTIONS	Receipt ID:	1270538
	874 PINEY HOLLOW ROAD	EQ Account #:	11931
	P O BOX 70 WINSLOW, NJ 08095	Manifest / BOL:	016674000JJK
		Transporter:	HORWITH
		Date:	10/31/2016
		Time In:	9:09 AM
		Time Out:	10:22 AM
Line	Description	Qty. Unit	
	Generator	-	
1 - 1	J165130WDI - PCB Soil	22.870 TONS	<u> </u>
	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		

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Ple:	ase print or type. (Form designed for use on elite (12-pltch) typewriter.)					For	m Approved. OMB No. 2050-003
Î	UNIFORM HAZARDOUS 1. Generator ID Number WASTE MARIFEST MDD 053 945 432	1 3	1970 Nespor 14 - 620	v-305	6 01	frackling &	4000 <b>JJK</b>
	5. Generator's Name and Meiling Address ENVIRO ANALYTICS GROUP 1650 DE PERES RD SUITE 203	10	JOO SPAI	RROW	han mailing addr S POINT	BLVD	
	ST LOUIS, MO 63131 Generatz's Phone:	S	PARROV	VS PO	NT, MD 2	21219	
	6. Transporter 1 Company Name HORWITH TRUCKS INC. 7. Transporter 2 Company Name				U.S. EPAID		14 878
				<u></u>	U.S. EPAID	Number	14878
	B. Designated Facility Name and Site Address WAYNE DISPOSAL, IN 49350 N I-94 SERVICE DRIVE BELLEVILLE, MI 48111 (2000) 502 5400	NC. SITE #2	2 LANDF	1	U.S. EPA ID MID		90 633
	Facility's Pitene: (800) 592-5489 9a Bu U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, HM and Packing Group (if any))		10, Conta	"T	11. Total	12. Unit	13. Waste Codeg
L L L L L L L	X 1UN3432, Polychlorinated biphenyls, solid, mixture ERG #171	9, 9, PGII,	Na.	Type DT	Quantity EST J3 (DP		PCB1
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	4.					-	. <u> </u>
	14. Special Harding Instructions and Additional Information J185130WDI / PCB Soli						150 d28101
1	5. GENERATOR'S/OFFEROR'S CERTIFICATION: I haraby declare that the contents of bits of marited and labeled/placanded, and are in all respects in proper condition for transport accor Exporter, I certify that the contents of this consignment conform to the larms of the attached I certify that the wasta minimization statement Identified in 40 CFR 262.27(a) (if I em a tage	rding to appEcable Inte EPA Acknowled conert	mational and nati of Censori	onal governm	ental regulations,	pping name, If export chip	and are classified, packaged
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-	7. Transporter Acknowledgment of Receipt of Materials	Sionature	Date (201)	ng W.V.			
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20	PCB Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered I	by the manifest except	as noted in latern	1Ea			
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CERTI	FICAT	TE O	FD	SPO	SA	AL
Authorized Signature: But he Best Henrek	Under civil and criminal penaltics 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 afficial having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.	49350 N. I-94 Service Drive, Belleville, Michigan 48111 Telephone: 1-800-KWALITY (592-5489) Fax: 1-800-KWALFAX (592-5329)	Wayne Disposal, Inc (EPA I.D. # MID048090633)	and specified on Manifest # $0/4274200$ $144$ , Line Item $1$ has been landfilled on $0731$ , $1042$ in accordance with all local, state and federal regulations by:	This certificate is to verify the wastes identified as <u>for solution</u>	FOR MANIFESTED PCB WASTE

Page 3 of 9

From #REC-FM-030-BEL The electronic version of this document is the controlled version. Each user is responsible for ensuring that any document being used is the current version. US ECOLOGY 49350 N. I-94 SERVICE DRIVE BELLEVILLE, MICHIGAN 48111

5/1/15

N, 1

Invoice: 263354

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

	Receipt		
	ENTERPRISE NETWORK RESOLUTIONS	Receipt ID:	1270554
	874 PINEY HOLLOW ROAD	EQ Account #:	11931
	P O BOX 70	Manifest / BOL:	016675153JJK
	WINSLOW, NJ 08095	Transporter:	HORWITH
		Date:	10/31/2016
		Time In:	10:31 AM
		Time Out:	12:11 PM
Line	Description	Qty. Unit	
	Generator		
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		

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This certificate is to verify the wastes identified as

and specified on Manifest # \_\_\_\_\_//////\_\_\_\_ 00731 \_, Line Item \_\_\_\_ has been landfilled on

Wayne Disposal, Inc

(EPA I.D. # MID048090633)

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

ERTIFICATE OF DISPOSAL

having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. is true accurate and complete. 1001 and I5 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As

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Authorized Signature: Berturk

US ECOLOGY 49350 N. I-94 SERVICE DRIVE BELLEVILLE, MICHIGAN 48111 The olocitoric version of this document is the controlled version. Each user is responsible for ensuing that any document being used is the currant version

From #REC-FM-030-BEL

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

	Receipt	
	ENTERPRISE NETWORK RESOLUTIONS	Receipt ID: 1270607
	874 PINEY HOLLOW ROAD	EQ Account #: 11931
	P O BOX 70	Manifest / BOL: 016675151JJK
	WINSLOW, NJ 08095	Transporter: HORWITH
		Date: 11/01/2016
		Time In: 8:36 AM
		Time Out: 9:17 AM
Line	Description	Qty. Unit
	Generator	-
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	

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Pie	ase p	pmt or type. (Form designed for use on elite (12-pitch) typewriter.)							Approved, OMB No. 2050-0039
1		NIFORM HAZARDOUS 1. Generator 10 Number WASTE MANIFEST MDD 053 945 432	2. Page 1 of 1	31	-620	1 - 364	16 01		วั้151 <b>JJK</b>
	11	Generator's Name and Mailing Address ENVIRO ANALYTICS GRO	UP (				han mailing addres S POINT		
	SS	SUITE 203 ST LOUIS, MO 63131	t	SPA	RROW	/S POI	NT, MD 2	1219	
	Ge. 6. 1	enerator's Phone: Transporter 1 Company Name	I			_	U.S. EPAID		
	7.1	HOWITH TYUCKS INC.					U.S. EPAID N	ILY 6	714 878
							U.S. EPAID		
	4	Designaled Facility Name and Site Address WAYNE DISPOSAL 19350 N 1-94 SERVICE DRIVE	, INC. SHE	= #2	LANDF	I		090 148	0 633
	1	3ELLEVILLE, MI 48111 alivs Phone: (800) 592-5489					1		
	ga.	20. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Num	nter,		10. Conta	1	11. Totat Quantity	12. Unit WL/VgL	13. Waste Codes
	нъ X		lure, 9, PGII,		No.	Type	EST_	í	PCB1
LATOF		ERG #171			ł	DT	22	BL BL	· · · ·
GENERATOR	┢	2.				†			·
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		4.		i					- 
	14	Special Handling Instructions and Additional Information							
		165130WDI / PC8 Soil							
									28-16
	15.	GENERATOR SUDFFEROR'S CERTIFICATION: I hereby declare that the contents of marked and labeled/placarded, and are in all respects in proper condition for transport	n according to applica	ibie interna	ational and nal	escribed sbov ional governi	e by the proper sh mental regulations.	pping name, i If export ship	and are classified, packaged, ment and I am the Primary
		Exporter, I certify that the contents of this consignment conform to the terms of the att i certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I em.	tached EPAAcknowle a large quantity gener	rator) ov (b	Consent.				
	Gen	Janes Calenda	Signa 	***/	- N	h-	-		Month Day Year 1/0-128116
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·		ansporter signature (for exports only): Transporter Acknowledgment of Receipt of Materials			Date leav	ng v.s.:			
ORT	Tran	Blenn Hant	Signa	ature Rel	1 ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	L			Month Day Year
TRANSPORTER	Trar	Insporter 2 Printed/Typed Name	Signa	sture	<u></u>				Month Day Year
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Ľ,	18b.	b. Atemate Facility (or Generator)					U.B. EFA1U N	un uer	-
DFAC		ulkýs Phone: _ Signature of Atemate Fec≭ty (or Generator)							Month Day Year
NATE				<u></u>					
DESIGNATED FACILITY	19. I 1,	Hazardous Wasle Report Monagement Method Codes (i.e., codes for hazardous wasle 2.	e beelment, disposal, 3.	and recycl	ing systems)		4,	<u></u> .	
1		PCB				- 4			
		Designated Facility Owner or Operator: Cartification of receipt of hazardous materials o needTyped Name	covered by the manife Sign	st except : ature	as noted in Ila		1 11	2,	Monip Day Year
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c.PA	1 Fan	rm 8700-22 (Rev. 3-05) Previous editions are obsolete.	DI	ESIGN	IATED FA	AGILII Y	IU DESTIN	ATION S	STATE (IF REQUIRED)

This certificate is to verify the wastes identified as OCA solial

and specified on Manifest # 000 Zold in accordance with all local, state and federal regulations by 0/667575K \_, Line Item / has been landfilled 9

# wne Disposal, (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)

ERTIFICATE OF DISPOSAL

to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official is true accurate and complete. having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information 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

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Authorized Signature:

The obscronic version of this document is the controlled version. Each user is responsible for ensuring that any document being used is the current version. US ECOLOGY 49350 N. 1-94 SERVICE DRIVE BELLEVILLE, MICHIGAN 48111

5/1/15

From #REC-FM-030-BEL

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

	Receipt		
	ENTERPRISE NETWORK RESOLUTIONS	Receipt ID:	1270658
	874 PINEY HOLLOW ROAD	EQ Account #:	11931
		Manifest / BOL:	016675150JJK
	WINSLOW, NJ 08095	Transporter:	HORWITH
		Date:	11/02/2016
		Time In:	8:02 AM
		Time Out:	8:38 AM
Line	Description	Qty. Unit	
	Generator	-	
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		

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		UITE 203 T LOUIS, MO I erelor's Phone:	53131			I	SP	ARROW	/S POI	nt, MD 2	1219			
		ansporter 1 Company Name Horwith	TRU	c Ks	tuc					U.S.EPAID		7/487	R	
		ansporter 2 Company Name											0	
	49 Bf	ssignaled Facility Name and 1350 N 1-94 SE ELLEVILLE, M Ivys Phone: (800)	RVICE I	DRIVE	DISPOSAL, I	NC. SITI	E #2	LANDF	1	U.S. EPAIDI MID I		90 633		
	9a. HM	9b. U.S. DOT Description and Packing Group (if an		er Shipping Name, H	azard Class, (D Number,		ŀ	10. Centai No.	ners Type	11. Tolasi Quantity	12. Umit WL/Vol.	13. Was	te Codes	
l B B B B B B B B B B B B B B B B B B B	X	UN3432, Poly ERG #171	chlorinate	d biphenyls	, solid, mixture	e, 9, PGII,	·····	01	DT	Est	K	PCB1		
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	17. Ts	porter signature (for exports ansporter Acknowledgment o	f Receipt of Mate	rialis				Date leavin	vg U.S.:					
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This certificate is to verify the wastes identified as \_\_\_\_\_\_ *Pob Society* 

and specified on Manifest # 1920 Zetter in accordance with all local, state and federal regulations by: 0/66757.50 K, Line Item has been landfilled on

# Wayne Disposal, Inc (EPA I.D. # MID048090633)

IFICATE OF DISPOSAL

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

is true accurate and complete. having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official 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

Authorized Signature: 12 nelle destande

FR

US ECOLOGY 49350 N. 1-94 SERVICE DRIVE BELLEVILLE, MICHIGAN 48111 The electronic version of this document is the controlled version. Each user is responsible for ensuing that any document being used is the current version

5/1/15

From #REC-FM-030-BEL

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

	Receipt		
	ENTERPRISE NETWORK RESOLUTIONS	Receipt ID: 1270674	
	874 PINEY HOLLOW ROAD	EQ Account #: 11931	
	P O BOX 70	Manifest / BOL: 016675152J	JK
	WINSLOW, NJ 08095	Transporter: HORWITH	
		Date: 11/02/2016	
		Time in: 11:45 AM	
		Time Out: 12:49 PM	
Line	Description	Qty. Unit	
	Generator		
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		

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ese print or type. (Form design UNIFORM HAZARDOUS	gned for use on elilo							For	m Approved. OMB No. 2050-
WASTE MANIFEST	MDD	053 945 432	)	1 3	nergency Respo	nse Phana 0 - 305(			5152 JJK
5 Generator's Name and Mailer 1650 DE PERE	S RD	RO ANALYTICS	GROUP	Gener	rators Site Addre	es (il different l	tan mailing add	(mean)	
SUITE 203 ST LOUIS, MO					600 SPA				)
Generator's Phone: 6. Transporter 1 Company Nam	_				PARRO	VS POI			
	Ruck	s Inc	l I					Number	5714878
7. Transporter 2 Company Name	*				•		U.S. EPAID	Number	818Find
8. Designated Facility Name and	Sin Address			-	<u>.</u>	_	1		
49350 N I-94 SI		AYNE DISPO	JSAL, INC.	SITE #	2 LANDF	1	U.S. EPAID		90 633
BELLEVILLE, N	4  48111 ) 592-5489							040 0	30 033
		opping Name, Hazard Cla			·····				
HM 🕴 sea hacknuð Gronb (rí se	TY))				10. Conti No.	ainers Type	11. Total Quantity	12. Unit WL/Vol.	13. Waste Codes
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This certificate is to verify the wastes identified as \_\_\_\_\_\_\_

and specified on Manifest # , 221/2 in accordance with all local, state and federal regulations by: 0/10/0 757524 <u>U//c\_\_</u>, Line Item has been landfilled on

# 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)

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

Authorized Signature:

US ECOLOGY 49350 N. I-94 SERVICE DRIVE BELLEVILLE, MICHIGAN 48111 The electronic version of this occurrent is the controlled version. Each user is responsible for unsuring that any document being used is the current version

From #REC-FM-030-BEL

CERTIFICATE OF DISPOSAL

11 to 4 ageq

Cod COD #3

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

	Receipt	
	ENTERPRISE NETWORK RESOLUTIONS	Receipt ID: 1270675
	874 PINEY HOLLOW ROAD	EQ Account #: 11931
	P O BOX 70	Manifest / BOL: 016673980JJK
	WINSLOW, NJ 08095	Transporter: HORWITH
		Date: 11/02/2016
		Time In: 11:48 AM
		Time Out: 12:53 PM
Line	Description	Qty. Unit
	Generator	
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	

Please print or type. (Form designed for use on elite (12-pitch) typew						n Approved. OMB No. 2050-0039
UNIFORM HAZARDOUS 1. Generator ID Number WASTE MANIFEST MDD 053 945 4	132 1	3. Emergency Respon		~ 4. Manifest		3980 <b>JJK</b>
5. Generator's Name and Mailing Address ENVIRO ANALYT	ICS GROUP	Generator's Site Addre 1600 SPA		han mailang addre	ss)	
U SUITE 203 ST LOUIS, MO 63131 Generator's Phone:	1	SPARROV	NS POI	NT, MD 2	1219	
6. Transporter I Company Name Horwith Truchs Inc					Number VL)	14878
7. Transporter 2 Company Name	····· · · · · · · · · · · · · · · · ·			U.S. EPA ID		110.0
B. Designated Faceby Name and Site Address WAYNE DIS	SPOSAL, INC. SIT	E #2 LANDF	-1	U.S. EPA ID I		
49350 N I-94 SERVICE DRIVE				MID (	048 09	90 633
Facility's Phone: (800) 592-5489				<u></u>		
ga. Sb. U.S. DOT Description (including Proper Shipping Nama, Haza HM and Packing Group (if eny))		10. Cont No.	Type	11. Total Quantity	12. Unit W1_Val.	13. Waste Codes
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14. Special Harding Instructions and Additional Information			1			·
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PCB	3.					
PCB 20. Designated Facility Owner or Operator: Certification of receipt of hazan	3. dous materials covered by the manife		ım 18a			Liceth Day Vann
	3. dous materials covered by the manife	ast except as rected in the ature	um 18a 4	 ~S		Month Day Year

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This certificate is to verify the wastes identified as 2BSolia

and specified on Manifest # 0/6673950. \_, Line Item has been landfilled on

2012 in accordance with all local, state and federal regulations by:

# wne Disposal, (EPA I.D. # MID048090633)

FICATE OF DISPOSAL

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

Fax: 1-800-KWALFAX (592-5329)

to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official is true accurate and complete. having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information 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

Authorized Signature:

ŦR

The electronic version of this document is the controlled version. Each user is responsible for ansuring that any document being used is the current version US ECOLOGY 49350 N. I-94 SERVICE DRIVE **BELLEVILLE, MICHIGAN 48111** 

From #REC.FM-030-BEL

Cod COD #2

5/1/15

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

	Receipt	
	ENTERPRISE NETWORK RESOLUTIONS	Receipt ID: 1270716
	874 PINEY HOLLOW ROAD	EQ Account #: 11931
		Manifest / BOL: 016675149JJK
	WINSLOW, NJ 08095	Transporter: HORWITH
		Date: 11/03/2016
		Time In: 7:45 AM
		Time Out: 8:21 AM
Line	Description	Qty. Unit
	Generator	-
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	

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This certificate is to verify the wastes identified as \_\_\_\_\_\_

and specified on Manifest # \_ Nov 3 , Zole in accordance with all local, state and federal regulations by 0/10/07/9 12 \_, Line Item /\_\_ has been landfilled on

# Vayne Disposal, Inc (EPA I.D. # MID048090633)

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

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

Authorized Signature: 2 ucles Deric 4

US ECOLOGY 49350 N. 1-94 SERVICE DRIVE BELLEVILLE, MICHIGAN 48111

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