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March 22, 2019 **VIA PRIVATE CARRIER**

Ms. Ruth Prince, PhD Toxicologist
3LC10, Office of Remediation
Land and Chemicals Division
U.S. Environmental Protection Agency, Region 3
1650 Arch St.
Philadelphia, Pennsylvania 19103-2029

Subject: Transmittal of the Draft Risk-Based Disposal Approval Application (RBDAA) for the Block E Soil Removal
Lockheed Martin Corporation; Middle River Complex
2323 Eastern Boulevard, Middle River, Baltimore County, Maryland

Dear Ms. Prince:

Lockheed Martin Corporation (Lockheed Martin) is submitting the accompanying draft risk-based disposal approval application (RBDAA) to Region 3 of the United States Environmental Protection Agency (USEPA) for review to seek conceptual concurrence regarding the recommended remedy. The RBDAA is in support of remediation of soil in Tax Block E of the Middle River Complex in Middle River, Maryland, including the removal of soil to address areas containing elevated concentrations of PCBs. After receiving comments on this draft RBDAA from USEPA and thereafter completing the soil remedy design, Lockheed Martin will formally submit a final RBDAA with a request for approval from USEPA.

The Block E soil remediation project includes the following primary elements:

- removal of environmentally impacted soil from Block E at locations with concentrations exceeding remedial action levels for PCBs and benzo(a)pyrene equivalents (BaPEq). The soil removal will achieve the surface soil cleanup goal (10 milligrams per kilogram [mg/kg] total PCBs and 2.9 mg/kg BaPEq) and subsurface soil cleanup goal (58 mg/kg total PCBs and 10 mg/kg BaPEq) established for the Block E remedy.

- removal of environmentally impacted concrete from Block E as part of the overall removal of existing concrete foundation slab, roadways, and paved areas.

- removal of environmentally impacted storm sewers from Block E.

The attached draft "Risk-Based Disposal Approval" application presents preliminary information in accordance with 40 CFR 761.61(a)(3)(i).

Please note that certain details about construction methods and procedures have not been included because they will be developed in the detailed remedy design. These details include construction activity sequence, equipment type and size, material handling and stockpiling procedures, and disposal facilities. These details will be included in the formally submitted RBDAA.

Lockheed Martin respectfully requests USEPA provide comments regarding this draft RBDAA by May 24, 2019. It is Lockheed Martin's desire to reach conceptual agreement with USEPA regarding the proposed remedy. This will allow Lockheed Martin to proceed in a timely manner with preparation of the Block E soil remedy design and long-lead permitting applications with additional regulatory agencies. Lockheed Martin understands USEPA will be at liberty to provide additional comments once the final RBDAA and remedy design are formally submitted for approval.

Please contact me at (301) 548-2209 if you have any questions.

I am available for your questions; my office phone is (301) 548-2209.

Sincerely,

Thomas D. Blackman
Project Lead, Environmental Remediation

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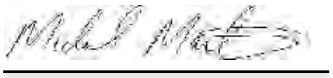
RISK-BASED DISPOSAL APPROVAL APPLICATION FOR PCB-CONTAMINATED SOIL REMOVAL IN BLOCK E, MIDDLE RIVER COMPLEX MIDDLE RIVER, MARYLAND

Prepared for:
Lockheed Martin Corporation

Prepared by:
Tetra Tech, Inc.

March 2019

Revision: 0



Michael Martin, P.G.
Regional Manager

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TABLE OF CONTENTS

APPENDICES

ACRONYMS

AASHTO	American Association of State Highway and Transportation Officials
AST	aboveground storage tank
BaPEq	benzo(a)pyrene equivalent
BCSCD	Baltimore County Soil Conservation District
bgs	below ground surface
BMP	best management practice
CFR	*Code of Federal Regulations*
COMAR	*Code of Maryland Regulations*
DEPS	Department of Environmental Protection and Sustainability
DPT	direct-push technology
DRO	diesel-range organics
GAC	granular activated-carbon
Lockheed Martin	Lockheed Martin Corporation
MAA	Maryland Aviation Administration
MDE	Maryland Department of the Environment
mg/kg	milligram(s) per kilogram
MRC	Middle River Complex
NPDES	National Pollutant Discharge Elimination System
NPL	*National Priorities List*
OCP	Oil Control Program
PAH	polycyclic aromatic hydrocarbon
PCB	polychlorinated biphenyl
POTW	publicly owned treatment works
PRG	preliminary remedial goal
RAO	remedial action objective
RAP	remedial action plan

RBDA	risk-based disposal approval
RBDAA	risk-based disposal approval application
RCRA	Resource Conservation and Recovery Act
RI	remedial investigation
RRA	residual risk analysis
SCD	Soil Conservation District
1,2,4-TCB	1,2,4-trichlorobenzene
TCLP	toxicity characteristic leaching procedure
Tetra Tech	Tetra Tech, Inc.
TPH	total petroleum hydrocarbons
TSCA	Toxic Substances Control Act
UCL	upper confidence limit
U.S.C.	*United States Code*
USEPA	United States Environmental Protection Agency
UST	underground storage tank
VOC	volatile organic compound

SECTION 1
INTRODUCTION

The objective of this cleanup is to remove soil and other materials contaminated with polychlorinated biphenyls (PCBs) from Tax Block E (Block E) at the Lockheed Martin Middle River Complex (MRC) in Middle River, Maryland, such that remaining soil will not pose an unacceptable risk to human health (based on industrial worker and construction worker exposure scenarios) or to the environment (through erosion of contaminated soil to Dark Head Cove). Lockheed Martin Corporation (Lockheed Martin) is submitting this risk-based disposal approval application (RBDAA) for the soil cleanup to Region 3 of the United States Environmental Protection Agency (USEPA), pursuant to the Toxic Substances Control Act (TSCA) and 40 *Code of Federal Regulations* 761.61(c) (40 CFR 761.61(c)). The cleanup plan addresses excavation and removal of approximately 30,000 tons of soil and approximately 1,000 tons of concrete with PCB concentrations greater than 50 milligrams/per kilogram (mg/kg), and subsequent disposal at a TSCA-permitted landfill. The overall project also includes the excavation and off-site disposal of approximately 3,000 tons of non-TSCA regulated soil and 4,000 tons of non-TSCA regulated concrete. Approximately 19,000 tons of uncontaminated concrete will be crushed and reused as backfill onsite or disposed of offsite.

1.1 PROJECT OVERVIEW

Lockheed Martin hereby requests written approval from the USEPA to document that the removal and management of impacted materials (as summarized below) in accordance with this RBDAA will not pose an unreasonable risk of injury to health or the environment. The elements of the project covered in this RBDAA include the following:

- excavation of approximately 30,000 tons of PCB-contaminated soil (exceeding 50 mg/kg) from Block E
- removal of approximately 1,000 tons of PCB-contaminated concrete (exceeding 50 mg/kg)

- disposal of PCB-contaminated soil and concrete with PCB concentrations greater than 50 mg/kg at an approved landfill facility that meets the permit requirements of 40 CFR 761

Submittal of this RBDAA complies with the requirements of 40 CFR 761.61(c)(1), which stipulates that any person wishing to sample, cleanup, or dispose of PCB remediation waste in a manner other than prescribed in 40 CFR 761.61(a) or (b) must apply in writing to the USEPA Regional Administrator. Each application must include information described in the notification required by 40 CFR 761.61(a)(3). No person may conduct cleanup activities prior to obtaining written approval by USEPA. Community outreach regarding this and other remediation projects at the MRC is ongoing and includes information about soil removal and management activities. Tables and figures referenced in the text are in Appendix A.

Other project activities include radiological surveying and screening, removal of the entire concrete foundation slab, removal of all roads and paved areas, removal of contaminated storm sewers, on-site crushing and re-use of uncontaminated concrete, off-site disposal of non-PCB-contaminated concrete, construction of a retaining wall on the western side of the site, removal of the former fuel product pipeline, backfilling, final grading, and installation of stormwater channels and pipelines.

1.2 BACKGROUND

The MRC remediation projects are overseen by the Maryland Department of the Environment (MDE) Land Management Administration, Land Restoration Program (also known as the State Superfund Program). The Land Restoration Program's responsibilities include overseeing the assessment and cleanup of historically contaminated hazardous waste sites that have not been placed on the *National Priorities List* (NPL). On December 15, 2015, Lockheed Martin entered into an Administrative Order on Consent (Consent Order) with the MDE to address the remediation of environmental contamination at the MRC. The USEPA also has jurisdiction over this soil cleanup under TSCA, in accordance with 40 CFR 761.61, because PCBs have been detected in soil on the MRC property at concentrations greater than 50 parts per million (equivalent to 50 milligrams per kilogram [mg/kg]).

The MRC is at 2323 Eastern Boulevard in Middle River, Maryland (Figure 1-1). The facility is owned by LMC Properties, Inc., and lies approximately 3.2 miles upstream of Chesapeake Bay. It consists of multiple land parcels designated as tax blocks (referred to herein as "Blocks" [Figure 1-2]). Operating facilities are in Block I; surrounding Block I are Blocks A, B, D, E, F, G, and H.

The MRC has been used for aircraft and missile launching systems design, development, and manufacturing since the late 1920s. Block E is the site of former Building D, which was built in the early 1940s and demolished to the basement floor in 1971. The building had an assembly floor (first floor) that exited at the grade of the current Tilley Chemical Company property, along with a basement level (the current concrete slab). The former building occupied approximately 400,000 square feet. Historical engineering drawings show that the former basement areas were used for welding, extrusion milling, engine preparation, and assembly, as well as various radiological activities. Former elevators and former heater rooms were along the northern, eastern, and southern interior perimeter of the former building, and five former electrical transformer rooms on the slab were along the northern and southern interior perimeter. (Due to the suspected former existence of transformers with PCB-containing oils, the former transformer room areas have been investigated extensively.) A cafeteria and cleaning/plating and finishing rooms were along the southern interior wall, near the center of the building. Figure 1-3 shows historical features of Block E.

The area occupied by former Building D has not been redeveloped since the building was demolished in 1971. A 500,000-gallon, aboveground water storage tank (AST) and pump-house associated with the facility fire suppression system were in the southeastern corner of Block E. A two-inch-diameter fuel product pipeline runs underground from the former 500,000-gallon fuel oil AST to the MRC power plant in Block I. Tilley Chemical Company owns and occupies the western adjoining property, and currently stores trailers on the concrete parking apron of former Building D in the southwestern corner of Block E (see Figure 1-4).

The basement floor consists of concrete slabs with ceramic tiles overlaying the concrete in several locations. Construction joints or expansion joints (with associated cracking) are between the slabs. Former sumps and floor drains, some of which have been plugged with concrete or grouted, remain

within the existing concrete slab. Areas off the foundation slab are either concrete ancillary parking and access points or are covered in grass or other vegetation.

Steep soil slopes along the western and northwestern edges of Block E represent areas where the existing grade was higher than the eastern ground surface (with elevation differences of approximately 12 feet), and the topography was lowered to provide a level surface to construct the building. In these sloped areas, the soil has slumped onto the outer edge of the foundation slab after the building removal.

Investigations related to Block E have included reviews of records, maps, and design drawings, discussions with current and former MRC personnel, geophysical surveys, geotechnical studies, physical site condition evaluations, and extensive multimedia sampling. Comprehensive sampling at Block E has included collecting 112 concrete samples, more than 1,000 surface soil samples, more than 600 subsurface soil samples, 116 groundwater samples from more than 50 monitoring wells and over 40 temporary well points, stormwater sewer sediment samples from more than 16 manholes and inlets, and other miscellaneous samples.

Numerous environmental investigations were conducted at Block E from 2003 to 2017, culminating with a comprehensive remedial investigation (RI) report [Tetra Tech, (draft final) 2018b]. The RI report served as the primary reference for the remedial action plan (Tetra Tech, 2019c) which included an evaluation of technologies and remedial alternatives and the recommendation of a preferred alternative for remediation of the PCB-contaminated soil.

1.3 SOIL REMEDY ACTION

The MDE and the USEPA will oversee the soil remedy activities at Block E (Figure 1-5). The full soil remedy at the site will include the following actions; only the activities indicated with an asterisk involve the management of material contaminated with PCBs:

- surveying slab, subslab soil, and drains for possible radioactive residue, followed by removal and disposal of radioactive material field testing for radiological parameters
- removal of existing soil that has slumped onto and overlies the concrete slab on its western and northwestern sides with installation of a temporary retaining wall near the western end of the concrete slab

- *demolition and disposal of the concrete slab and some foundation footers, as well as other adjacent concrete and asphalt surfaces (approximately 700 tons of TSCA waste and 4,000 tons of non-TSCA waste; uncontaminated concrete and asphalt can be crushed and recycled on-site)
- removal of subslab cast iron floor drain piping
- *removal and disposal of the current stormwater system piping located in the area south of the foundation and under Block F (approximately 800 tons of TSCA waste soil and 700 tons of TSCA waste concrete piping)
- removal and disposal or recycling of the diesel fuel product pipeline
- *removal of soil to allow industrial site use (approximately 30,000 tons of TSCA waste soil and approximately 3,000 tons of non-TSCA waste)
- *treatment of contaminated groundwater (obtained from dewatering) with granular activated carbon (GAC) and disposal of PCB-contaminated solids and GAC
- backfilling with clean soil and re-grading
- reconstruction of a stormwater management system to drain post-remediation surfaces and grading
- *post-removal confirmation sampling and analysis
- *characterization, transport, and off-site disposal of removed materials
- site restoration
- two years of semiannual groundwater monitoring
- implementation of institutional controls

1.4 REMEDIATION COMPLETED AT THE SITE

An interim remedial measure for the Block E storm sewer system was completed in 2011 to minimize transport of contaminated sediment to off-site locations (Tetra Tech, 2012d). Accumulated sediment was cleaned from the storm sewers in the northeastern corner and eastern side of Block E; these storm sewers discharge to Outfalls 006 and 008, respectively. Storm sewers within Block E that discharge to Outfalls 005(E) and 005(W) were not included in this effort due to significant blockage from debris and sediment that prevented cleaning (see Figure 1-3). Sediment and debris removed from the storm sewer system were disposed of properly, as was

wastewater generated by these actions. A video inspection followed sediment removal, and inlets and manholes were repaired or replaced.

A separate interim remedial measure was conducted to remove an underground storage tank (UST) and associated trichloroethene (TCE) contamination in groundwater in the southeastern corner of the site. Approximately 804 tons of TSCA-regulated soil and 2,384 tons of non-TSCA regulated soil were excavated and disposed of off-site as part of groundwater treatment system installation (Tetra Tech, 2014b). Groundwater treatment for TCE contamination included multi-phase extraction and *in situ* bioremediation.

1.5 PERMITTING

Local, state, and federal permits, approvals, and notifications will be required for soil remediation in Block E. A list of the anticipated permits and regulatory approvals and notifications needed to complete this work is in Table 1-1. Activities associated with soil remediation could affect regulated resources (and therefore require regulatory review and approval), and include ground disturbance, site grading, and disposal of treated groundwater obtained via dewatering.

The project will be reviewed for potential impacts to listed species and critical/essential fish habitats per guidelines from the Maryland Department of Natural Resources. However, the site is mostly paved and has very little habitat for wildlife. The Block E site is inland, and proposed work does not directly affect aquatic habitats or species.

The Maryland Heritage Trust will conduct a project review pursuant to Section 106, the National Historic Preservation Act, to address potential historical/cultural resources. However, such resources, if present, were likely eliminated by the original construction of Building D on Block E.

Concrete removal, contaminated soil excavation, and related construction activities will disturb approximately 14.5 acres. Because grading and ground disturbance will exceed 5,000 square feet, a grading permit will be required (under Article 33 Title 5 of the *Baltimore County Code*) from the Baltimore County Department of Environmental Protection and Sustainability (DEPS) Stormwater Engineering Department, as well as an erosion and sediment control plan that must be approved by both the Baltimore County Department of Environmental Protection and Sustainability and the

Baltimore County Soil Conservation District (SCD). A stormwater management plan approved by Baltimore Department of Environmental Protection and Sustainability is not anticipated at this time, because no impervious surfaces will be created, and existing impervious surfaces will be eliminated and replaced with pervious surfaces. Because of the relatively large area that will be regraded, a Conceptual Plan of a Stormwater Management Plan will likely need to be developed and submitted. Following Baltimore County's review of the Stormwater Management Plan, the project will require a written variance from Baltimore County Department of Environmental Protection and Sustainability.

An erosion and sediment control plan will be submitted to the Baltimore County Soil Conservation District (BCSCD), prepared in accordance with the Maryland Standards and Specifications for Soil Erosion and Sediment Control (MDE, 2011) and the Baltimore County Urban Policy and Guidelines Manual (BCSCD, 1999). The BCSCD review of erosion and sediment control plans will be coordinated with and incorporated into the Baltimore County review of the stormwater management variance and grading plans.

Because an area greater than one acre will be disturbed, a "Notice of Intent" application for a "Construction General Permit" for stormwater associated with construction will have to be submitted to MDE, along with an erosion and sediment control plan to be approved by BCSCD. Work within the tidal buffer will be identified and mitigated, as needed.

Excavated soil will be stockpiled and/or loaded directly into trucks prior to transport to the disposal facility, backfill will be dumped on-site and graded, and concrete will be cut and crushed on site prior to reuse or disposal. All of these activities can generate fugitive dust; therefore, MDE review and approval of mitigation measures for particulate matter may be necessary to ensure compliance with Maryland's *Code of Maryland Regulations* (COMAR) 26.11.06.03D.

Contaminated water from dewatering and stormwater management will be treated on-site and discharged to surface water through a National Pollutant Discharge Elimination System (NPDES) permit. Alternatively, the water will be treated and discharged to the local Baltimore County publicly owned treatment works (POTW). Discharging water to a POTW would be subject to a permit issued by the Baltimore County Public Works Department under *Baltimore County Code*,

Article 20, Title 5, Section 114, "Industrial Wastewater Discharges." Details for water management and disposal are in Section 2.4.6.

Block E is outside of the Chesapeake Bay Critical Area, so a waiver request for critical area requirements for Block E work will be submitted to the Baltimore County Environmental Impact Review Department. A waiver is expected to be granted. However, a segment of storm sewer replacement extending from Block E into Block F is in the Chesapeake Bay Critical Area and will therefore require approval from the Baltimore County Department of Environmental Protection and Sustainability under *Baltimore County Code* Article 33, Subtitle 2.

A Baltimore County Department of "Public Works Utility Cut" permit, which is required for any work in a public right-of-way, will be needed to replace the storm sewer extending beneath the Chesapeake Park Plaza roadway.

An "Airport Zoning" permit (MAA-010) may also be required from the Maryland Aviation Administration (MAA) to allow use of a high crane during excavation because the remedial activity is near Martin State Airport.

A "Water Well Abandonment-Sealing Report" must be completed and submitted for each abandoned monitoring well. An "Application for Permit to Drill Well" form must be prepared and submitted before each new monitoring well is installed, and after installation is complete, a "Well Completion Report" must be prepared and submitted for each well. These forms are submitted to the County and to MDE.

SECTION 2
REQUEST FOR A RISK-BASED DISPOSAL APPROVAL

Lockheed Martin Corporation (Lockheed Martin) is submitting this risk-based disposal approval application (RBDAA) in accordance with 40 *Code of Federal Regulations* (CFR) Part 761.61(c). This RBDAA seeks approval to allow the removal and off-site disposal of polychlorinated biphenyl (PCB)-contaminated soil, storm sewer sediment, and concrete and associated remediation-related material such as granular activated carbon (GAC) from Block E of the Middle River Complex (MRC). The following sections of this request provide information required under 40 CFR §761.61(a)(3)(i)(A)–(D). Information required per 40 CFR §761.61(a)(3)(i)(E) is provided in Section 4.

2.1 NATURE OF CONTAMINATION

- *40 CFR §761.61(a)(3)(i)(A): The nature of the contamination, including kinds of materials contaminated.*

PCBs are the primary constituents of concern in surface soil (zero to two feet below the soil surface), subsurface soil (deeper than two feet below the soil surface), concrete, storm sewer pipe, storm sewer sediment, and storm sewer pipe bedding. Aroclor 1260 is the most commonly detected PCB, but in one area (the Southeastern Area) the predominant PCB is Aroclor 1254.

Figure 2-1 depicts the extent of surface soil sampling and PCB concentration exceedances in Block E. PCBs in surface soil are found over broad areas in Block E but are primarily located near three former transformer rooms and in the southeastern corner of the Block E. PCB-fluids were used in both the transformers and cables associated with these rooms. The source of PCB in outdoor areas, and away from these rooms, is unknown. The maximum PCB concentration in surface soil is 5,300 milligrams per kilogram (mg/kg), while the average PCB concentration is 50 mg/kg. Table 2-1 (see Appendix A) summarizes total Aroclors detected in Block E surface soil.

PCBs in subsurface soil are concentrated in four areas: former Transformer Room 2, former Transformer Room 3, former Transformer Room 4, and the Southeastern area. Subsurface soil data is also grouped into individual datasets according to these areas for the residual risk analysis (Tetra Tech, 2018c) (See Section 2.4). Figure 2-2 depicts the extent of subsurface soil sampling and concentrations. As noted above, PCB-fluids were used in both the transformers and cables associated with the former transformer rooms. The source of PCBs in outdoor areas, away from these rooms, is unknown. At former Transformer Room 2, the depth of PCB-contaminated soil to be removed is 16 feet below the soil surface, with the maximum PCB concentration of 9,400 mg/kg and the average concentration of 129 mg/kg. At former Transformer Room 3, the depth of PCB-contaminated soil to be removed is 18 feet below the soil surface, and the maximum and average concentrations of PCBs are 7,700 mg/kg and 224 mg/kg, respectively. At former Transformer Room 4, the depth of PCB-contaminated soil to be removed is 20 feet below the soil surface, and the maximum and average concentrations of PCBs are 37,000 mg/kg and 441 mg/kg (respectively). In the Southeastern Area, the depth of PCB-contaminated soil to be removed is six feet below the soil surface, with respective maximum and average PCB concentrations of 3,500 mg/kg and 22 mg/kg. Note that unlike the other areas, Aroclor 1254 is the predominant PCB in the Southeastern Area.

The remaining soil sampling locations that were not in any of the four main areas discussed previously were also evaluated. The maximum and average PCB concentrations in the remaining areas are 22 mg/kg and 0.16 mg/kg, respectively. Table 2-2 (see Appendix A) summarizes total Aroclors detected in subsurface soil.

Concrete samples were collected from over 100 locations on the foundation slab (see Figure 2–3). The maximum PCB concentration detected in concrete is 3,800 mg/kg, and ten sampling results had PCB concentrations greater than 50 mg/kg. Table 2-3 (see Appendix A) summarizes total PCBs detected in concrete samples.

PCBs have been detected in sediment samples collected from storm sewer manholes and inlets. The sediment in some of the storm sewers has been cleaned out. Storm sewer sampling locations are shown on Figure 2-4. The maximum PCB concentration detected in storm sewer sediment is 910 mg/kg, and eight sampling results are greater than 50 mg/kg. Concrete sewers are similarly

assumed to be contaminated with PCBs, although no samples of the concrete pipes have been collected and analyzed. Because contaminated sediment might have possibly leaked through pipe joints, the pipe bedding of the storm sewers is also assumed to be contaminated, although no samples have been collected. Table 2-4 (see Appendix A) summarizes total Aroclors detected in storm sewer sediment samples.

2.2 SAMPLING PROCEDURES

- *40 CFR §761.61(a)(3)(i)(B): A summary of the procedures used to sample contaminated and adjacent areas and a table or cleanup site-map showing PCB concentrations measured in all pre-cleanup characterization samples. The summary must include sample collection and analysis dates.*

Soil samples were collected during several investigations between 2003 and 2017. These sampling events are summarized below. Generally, subsurface soil samples were collected using either direct-push technology (DPT) or rotosonic methods. Surface soil samples at sampling locations below concrete were collected using the same equipment as used for subsurface soil sample collection. At locations where surface soil was exposed, samples were collected using a hand auger or trowel. Surface soil sampling results are summarized on Table 2-1, and subsurface soil sampling results are summarized on Table 2-2.

1. The Block E site characterization was conducted in 2003–2005. Continuous soil samples were collected using a four-foot long, two-inch diameter, stainless steel Macrocore sampler fitted with disposable acetate liners (Tetra Tech, 2005b).

2. The Block E soil and storm sewer sediment characterization from 2007 to 2009 collected continuous soil samples using a 2.125-inch outside diameter, four-foot long stainless steel Geoprobe Macrocore sampler containing a disposable acetate liner (Tetra Tech, 2010).

3. The Block E investigation in 2011 collected continuous DPT soil samples using a Geoprobe Dual Tube Soil Sampling System with a 1.5-inch diameter, five-foot long, stainless steel Macrocore sampler fitted with a disposable acetate liner. Samples were collected with a hand auger at an additional 12 shallow soil boring locations (Tetra Tech, 2012a).

4. The Block E investigation in 2012 collected continuous DPT soil samples from shallow borings (~4 feet) using a 1.5-inch diameter stainless steel Macrocore sampler fitted with a disposable liner. For deep borings, samples were collected using the RotoSonic method

with a six-inch by eight-inch drill rod/override casing set-up (with temporary casing) to advance drilling to the target depth (Tetra Tech, 2012f).

5. Near the groundwater remediation system, continuous soil samples were collected during the soil investigation in June 2012 using a 1.5-inch diameter, four-foot long, stainless steel Macrocore sampler fitted with a disposable acetate liner (Tetra Tech, 2012c).

6. During the investigation associated with underground storage tanks (USTs) in 2013, soil samples were collected via a dual-tube sampling system, using 2.25-inch- or 3.25-inch-outer-diameter probe rods as an outer casing and 1.0-inch- or 1.25-inch-diameter inner rods. As this was a UST investigation, samples were analyzed for PCBs as part of a larger analytical suite (Tetra Tech, 2013).

7. During the Block E soil remedial investigation conducted from 2016 through 2017, samples were collected by DPT using a 1.5-inch-diameter, four-foot long, stainless steel Macrocore sampler fitted with a disposable acetate liner. For soil pile-transformer room locations, samples were collected with a sonic drill using a six-inch-diameter steel casing to obtain continuous soil cores by advancing a four-inch-diameter steel casing through the six-inch casing. Samples were collected using DPT at some soil pile locations. Samples were collected in western soil pile locations using a hand auger. (Tetra Tech, 2018b).

Concrete samples were collected during several investigations between 2007 and 2017. These sampling events are summarized below. Generally, concrete samples were collected by drilling or coring into the concrete to remove the top half-inch of concrete. Sampling methods reduced the concrete to dust or small pieces. Concrete sampling results are summarized in Table 2-3.

1. Concrete surface samples were collected at 10 borings during the Block E soil and storm sewer sediment characterization from 2007 to 2009 (Tetra Tech, 2010).

2. During the Block E investigation in 2011, concrete chips (from 0 to 0.1 feet) were pulverized in the field before sending samples to the laboratory (Tetra Tech, 2102a).

3. Concrete samples collected during the Block E investigation in 2012 were obtained by drilling a hole approximately 0.5-inch deep into the concrete surface using a one-inch-diameter carbide drill bit to generate approximately 10 grams of powder (Tetra Tech, 2012f).

4. Concrete samples were collected at a depth of 0-0.25 feet (from the top of the concrete surface) during the Block E soil remedial investigation (from 2016 through 2017). Concrete borings were advanced through the slab surface to the bottom of the concrete

using a DPT percussion bit. The DPT percussion bit pulverized the concrete as it drilled, and the concrete powder was collected and homogenized in a sample container (Tetra Tech, 2018b).

Sediment samples from storm sewers were collected during several investigations between 2007 and 2017. The sampling methods for these sampling events are summarized below. Storm sewer sediment sampling results are summarized in Table 2-4.

1. Sediment samples were collected from storm sewer inlets and manholes using a stainless steel scoop during the Block E soil and storm sewer sediment characterization from 2007 to 2009 (Tetra Tech, 2010).

2. Samples collected during storm sewer sampling in 2013 were obtained using a flat, stainless steel scoop (Tetra Tech, 2014b).

3. Sediment samples were collected from shallow catch basins using a hand auger during the 2016–2017 Block E soil remedial investigation (Tetra Tech, 2018b).

4. Samples collected during storm sewer sampling in 2016 were obtained by lowering a clean, disposable, stainless steel spoon with an extended handle into the manholes and inlets (Tetra Tech 2017).

5. Sediment samples were collected during storm sewer sampling in 2017 using a stainless steel scoop on an extended handle (Tetra Tech, 2018a).

Soil, sediment, and concrete samples collected before and up to 2012 were analyzed for PCBs using USEPA Method SW-846 8082. Soil, sediment, and concrete samples collected after 2013 were analyzed using USEPA Method SW-846 8082A.

2.3 SAMPLING LOCATIONS AND EXTENT OF CONTAMINATED AREA

- *40 CFR §761.61(a)(3)(i)(C): The location and extent of the identified contaminated area, including topographic maps with sample locations for samples in the summary table.*

Because of the large numbers of samples collected and analyzed at the site, PCB results are presented separately for surface soil (zero to two feet below ground surface [bgs]), subsurface soil (deeper than two feet bgs), concrete, and storm sewer sediment. Figures 2-1 and 2-2 (respectively) are simplified figures showing the locations of surface and subsurface soil samples that exceed the

surface soil preliminary cleanup goals (PRGs). Figure 2-3 shows concrete sampling locations, and Figure 2-4 shows sediment sampling locations in the Block E storm sewer system.

Figures 2-5 through 2-9 are tag maps that show the results of surface soil analyses. Figure 2-1 shows the locations of surface soil samples that exceed the surface soil preliminary cleanup goals (PRG) and that are to be excavated. Figure 2-10 shows the locations of surface soil samples in the median of Chesapeake Park Plaza that exceed a residential cleanup goal. The methodology for determining which samples are to be excavated is included in Section 2.4. These figures are also included in the remedial action plan (RAP) (Tetra Tech, 2019c).

The results of the subsurface sampling are presented in a similar manner, but because of the large number of borings and multiple sampling intervals in each boring, the results are difficult to represent pictorially. Figures 2-11 through 2-15 are tag maps that show the results of the deepest subsurface sample in each boring that exceeds the subsurface soil PRG. Figure 2-2 is a simplified figure that shows the locations of samples that exceed the PRG and are to be excavated. The methodology for determining which samples are to be excavated is included in Section 2.4. The sampling results from intermediate depths are depicted in figures in Appendix B. In these figures, a software program (LeapFrog) was used to interpolate the results to generate isoconcentration contours for depth intervals of two feet.

Figure 2-16 is a tag map that shows the results of concrete samples, and highlights those that exceed the Toxic Substances Control Act (TSCA) disposal criteria of 50 mg/kg. Because the entire foundation slab will be removed, additional delineation based on other criteria, such as industrial exposure, is not needed.

Figure 2-17 depicts sediment sampling results in the storm sewers. Sediment has already been removed from some of the storm sewers on the eastern side of Block E and within Block F south of Block E, as noted on the figure. The concentrations shown on Figure 2-17 are only for those samples that remain or that were collected after the sediment removal.

2.4 SOIL REMEDY APPROACH TO REMOVE PCBS

- *40 CFR §761.61(a)(3)(i)(D): The cleanup plan for the site, including schedule, disposal technology, and approach. This plan should contain contingencies to be used if unanticipated higher concentrations or wider distributions of PCB remediation wastes are found or other obstacles force change in the cleanup approach.*

The soil remedy will be conducted to achieve the remedial action objectives (RAOs) identified for the site. The risk-based PRGs for Block E soil were developed to meet the RAOs. The findings of the remedial investigation and risk assessment (Tetra Tech, 2018b), which are described in the RAP (Tetra Tech, 2019c), were used to develop the RAOs. The following RAOs have been defined to remediate PCBs in Block E soil:

- RAO 1: Reduce site-related chemicals of concern in Block E soil to not exceed a cumulative human health cancer-risk limit of 1×10^{-5} and a cumulative noncarcinogenic hazard index of 1 for industrial and construction workers.
- RAO 2: Prevent transfer of PCBs to the extent practicable from surface soil and storm drains to discharged stormwater at concentrations that would affect the sediment remedy.
- RAO 3: Prevent to the extent practicable leaching of PCBs and 1,2,4-trichlorobenzene (1,2,4-TCB) from soil to groundwater at concentrations that would impact surface water concentrations.

The extent of soil excavation was determined using residual risk analysis (RRA) and is described in detail in the Block E RAA (Tetra Tech, 2018c). The RRA identified the Block E locations targeted for remediation that would mitigate risks posed to the hypothetical industrial worker (exposed to surface soil) and construction worker (exposed to surface and subsurface soil) to less than target levels of cumulative cancer risk level of 1×10^{-5} and cumulative hazard index of 1. PCB results in the datasets for surface soil and four separate subsurface soil areas were ranked in order from highest concentration to lowest concentration. Then, the highest concentration was replaced by a clean value (less than detection limit) and the risks were recalculated. This process was repeated until the target risk levels were reached. As a margin of safety, samples with PCB concentrations greater than 25 mg/kg in surface soil and 100 mg/kg in subsurface soil were also replaced. Limits of excavation were then drawn to encompass the locations of the replaced samples. Three-dimensional modelling of subsurface soil sampling results was also considered to select the lateral limits of excavation in subsurface soil remediation areas.

The remedial approach for soil removal at Block E is described below. Most activities are related directly to the excavation and off-site disposal of the PCB-contaminated soil. However, some activities are unrelated to the PCB remediation, and are being performed as part of the overall remediation of Block E. Contingency plans are discussed in Section 2.6.

2.4.1 Health and Safety

All soil excavation work will be done in accordance with a site-specific health and safety plan prepared under 29 Code of Federal Regulations (CFR) 1910.120 ("Occupational Safety and Health Standards"). The health and safety plan presents the programs, processes, and work practices (addressing subjects such as site control, contamination avoidance, hazard avoidance and control, and decontamination and other procedures) to be followed for the planned tasks and operations. All on-site workers will be required to have completed hazardous waste operations training and site-specific training for hazard control and contamination-avoidance principles, and all workers will be required to read and acknowledge that they will perform their work in a manner consistent with their training and with the health and safety plan. Further, all work will be overseen by an appropriately qualified health and safety officer who will be on site during all operations, and who will have authority to make any necessary revisions to plans and practices that may arise to protect worker health and safety.

2.4.2 Radiological Testing

Radiological surveys will be performed during the remedial action to ensure that radiological materials or residual radiological contamination, if encountered, are properly removed and disposed of. Radiological surveys will also verify that no radioactive materials above release criterion remain, thereby releasing the site from post-remediation radiological restrictions. The following activities will support remediation activities:

- work-area exposure surveys for personnel protection during demolition
- work-area radiation surveys for personnel protection during demolition
- work-area air monitoring for personnel protection during demolition

- contamination surveys of piping, concrete, soil, and debris to identify/segregate materials and determine disposal options
- building slab and foundation demolition
- soil removal
- final status survey after removal of the building structure to verify that the site can be released with no restrictions
- contamination surveys on equipment and materials during decontamination activities and for unconditional release from the site
- report results from field activities

The subsurface soil beneath the Building D slab consists of imported backfill material and native soil graded during pre-construction site preparation. Hundreds of soil samples and soil cores have been screened and approximately 180 samples have been analyzed since 2013. All radioactive compound concentrations collected during soil sampling, except for two concentrations in core borings, fall within the variable ranges of natural background concentrations. Note that this activity does not involve management of PCB remediation waste.

2.4.3 Soil Pile Removal

The soil piles on the northern and western sides of the former Building D foundation were sampled during the remedial investigation (Tetra Tech, 2018b). No PCB concentrations detected were greater than the PRG. However, the PRG for benzo(a)pyrene equivalents (BaPEq) was exceeded at five shallow soil sampling locations. BaPEq-impacted soil will be excavated and disposed of off-site, and the balance of the soil piles that meets the requirements of the Soil Management Plan (Tetra Tech, 2019b) may be used as backfill. Prior to removal of the soil piles, a temporary retaining wall will be installed near the western end of the former building foundation to stabilize the Tilley Chemical Company property during soil pile removal. A retaining wall is not needed along the northern side of the slab because sufficient space is available to grade the slope to a stable configuration while removing soil from the slab. Note that this activity does not involve management of PCB remediation waste.

2.4.4 Concrete and Floor Slab Demolition

Although Building D was demolished in the early 1970s, the building's foundation and basement floor slab, as well as other concrete and an asphalt access roadway, remain in Block E. The floor slab measures 1,000 feet by 400 feet and consists of concrete with ceramic tiles overlying the concrete in several locations. The concrete slab contains construction or expansion joints and has cracks between and within the slabs.

All surface concrete and pavement in Block E (an estimated 24,000 tons) will be removed during the remedial action. This includes the entire floor slab of former Building D and other concrete within Block E, such as roadways and paved areas. Foundation slab footers and piles will be removed where they interfere with the excavation; deep piles will be cut at the bottom of the excavation. The work will likely progress in stages, such that after slab removal, soil excavation, and confirmation sampling in one area has been completed, backfilling will begin while slab removal and excavation begin in another area. This will minimize the area of PCB-impacted soil exposed to stormwater and minimize the subsequent volume of water to be treated. It will be necessary for some concrete to be disposed of at a permitted facility as TSCA-waste.

The concrete slab will be removed in manageable sections using heavy equipment to facilitate radiological screening and sampling of the concrete and underlying floor drains. The concrete foundation will be visually surveyed for PCB staining and will be surveyed for radiological materials per the radiological remediation plan. All stained concrete will be segregated from non-impacted material, as will already tested concrete with elevated PCB concentrations (i.e., PCB concentrations above 50 mg/kg). All concrete with radiological material concentrations above the *Atomic Energy Commission Regulatory Guide 1.86* levels for surface contamination for isotopic uranium will be segregated from non-impacted material. Residual concrete and asphalt adjacent to the concrete slab will also be removed as part of removing the concrete foundation.

Vertical and lateral floor drain pipes in the slab have been abandoned since the demolition of the building, and many were historically plugged with concrete. The floor drain system, as it is encountered during slab demolition, will be visually inspected to determine if it has been damaged. Radiation and contamination surveys of exposed drain system areas and surrounding soil will

determine if conditions are safe before removal of the next section of concrete begins. If an area of elevated radionuclide activity is found after slab removal, it will be covered and secured to prevent the spread of contamination until further investigation and, if necessary, remediation can be performed. These areas will be barricaded to prevent the entry of unauthorized personnel. This protocol will be repeated for each section of slab removed.

In areas where the slab has been removed, the floor drain system will be broken into manageable pieces using heavy equipment. Each piece of the floor drain system and surrounding soil will be surveyed under the supervision of a health physicist before other personnel enter the area. The results of the radiological survey will determine how materials will be packaged, removed, staged, and disposed of. Care will be taken to remove as little dirt as possible when materials such as concrete or floor drains are removed. If no radiological contamination above the limits identified in the radiological remediation plan is found, material will be removed and disposed of as nonradioactive waste. If concrete is not stained or contaminated by petroleum hydrocarbons, it will be broken up, temporarily stored, and recycled on-site as described in Section 2.4.9.

Radiological contamination in the underlying soil is not expected, provided the floor drain piping is removed in accordance with procedural guidance. However, unknown piping failures might have occurred in the past, so coverage surveys, as described in the radiological remediation plan, will be performed to monitor for this possibility. Potentially contaminated soil and debris will be removed, staged, and sampled for analysis, and, if necessary, disposed of as low-level radioactive material. This material will be bagged, wrapped, or containerized before being moved to the staging area, to prevent the spread of contamination during movement. Staging areas for these materials will be covered with disposable materials (e.g., tarps, plastic) before use and designated/barricaded as radiological areas until the material has been removed for disposal.

Monitoring wells within the footprints of the concrete removal areas will be abandoned prior the demolition activity. Monitoring wells outside of the concrete removal areas along with injection wells and piping associated with the groundwater treatment system in the southeastern area will be protected from damage.

2.4.5 Current Storm Sewer System and Product Pipeline Removal and Disposal

Storm sewer lines impacted with PCBs in the current southern portion of Block E, along with surrounding contaminated soil, will also be removed. Figure 2-18 shows the storm sewers that will be removed. During removal of the storm sewer along the eastern side, the groundwater treatment system discharge pipeline and electrical service must be protected. A new stormwater management system, as described in Section 2.4.7, will be designed and constructed as part of the remediation program. The new stormwater management system is expected to include channels and/or swales. If existing data suggests that potentially PCB-contaminated soil that could be eroded by stormwater forms the bottom of the new channels, then the bottom of the channels will be replaced with at least six inches of clean backfill. Vegetation and/or riprap will be used to stabilize the channel bottoms. After the existing storm sewers and soil are removed and confirmation sample results are evaluated, the trench will first be filled by placing surface soil from along each side of the trench, then backfilled to grade with clean soil.

The abandoned product pipeline is a two-inch-diameter pipe that runs underground from a former 500,000-gallon fuel oil aboveground storage tank (AST) previously located in Block E that connected to the MRC power plant in Block I. Approximately 1,500 feet of the pipeline is in Block E, but approximately 200 feet have already been removed. The location of the pipeline along the western and southern boundary of Block E is shown on Figure 2-18. Once the pipeline exits Block E, it runs through a tunnel that historically connected Building D with Building C in Block I. The underground portion of the product pipeline in Block E will be removed as part of the remedial alternative under the oversight of an MDE Oil Control Program (OCP) inspector, and in compliance with *Code of Maryland Regulations* (COMAR) Title 26.10. Note that this product pipeline activity does not involve management of PCB remediation waste.

2.4.6 Excavation, Dewatering, and Water Treatment

Excavation of PCB-impacted soil identified in the Block E soil RAP, is the main element of the TSCA cleanup for Block E. Erosion and sedimentation controls specified in the grading plan (to be approved by the Baltimore County Soil Conservation District [BCSCD]) will be installed, then inspected by the county before excavation begins. The county will issue a grading permit upon

approval of the installation. The excavation of Block E and the Chesapeake Park Plaza median can proceed once that, and all other permits associated with the project, have been issued. Per the 100% design of the Block E RAP (to be developed) and soil remedy, approximately 22,000 cubic yards of soil in Block E have been identified for excavation and disposal (see Figure 2-18). Note that although unsupported excavation walls were assumed during development of this alternative, the sheet pile approach may still be implemented in the final design. Soil will be excavated using conventional equipment such as excavators and front-end loaders. Removal of soil in some areas to depths below the water table (approximately seven feet below soil surface) is required. Also, due to subsurface structures (i.e., concrete footings and sub-slab piping) that impede rainwater infiltration, pockets of shallow, undrained water are expected to be encountered below the slab. Therefore, dewatering of both shallow and deep excavations is planned.

Block E soil with PCB concentrations greater than 50 mg/kg will be removed and disposed of at a TSCA-permitted hazardous waste facility. The removal limits are based on the RAP (Tetra Tech, 2019c), but the final limits of removal will be determined after post-removal confirmation sampling of excavation side walls and bottoms has been completed, and the residual risk has been re-calculated per RRA guidelines using confirmation sampling data. Sediment accumulated in erosion- and sediment-control devices will be disposed of off-site, along with the removed soil.

Subsurface soil removal areas will be dewatered to facilitate excavation and backfilling. Stormwater that flows into the excavations or contacts possibly impacted soil will also be collected. Excavated soil might also require gravity dewatering. Dewatering liquid, sub-slab water, and other collected stormwater will be placed into portable holding tanks before on-site treatment with filtration and GAC, and then discharged via a National Pollutant Discharge Elimination System (NPDES) permit or via a sanitary sewer discharge permit. Considerations to determine the specific discharge permit to be used during construction will be evaluated during the design.

Runoff from contaminated areas will be captured and treated. A combination of collection sumps and excavations will be used to capture water per erosion and sediment control requirements. Excavation of the areas will be performed sequentially, so that contact of active areas by precipitation is minimized.

Solids trapped by filtration will be analyzed and, depending on the results, transported to an approved facility for disposal. GAC used to treat the excavation and stormwater will also be characterized and disposed of appropriately. Treated water meeting the requirements of the NPDES permit will be discharged to surface water via the existing storm sewer and outfall system or to a POTW via a discharge to a sanitary sewer. Permits required for the remedial action are described in Section 1.5.

2.4.7 Post-Construction Stormwater Management System

To achieve RAO No. 2, the remedial alternative entails building a new stormwater management system to replace existing Block E storm sewers. A design for site grading and stormwater conveyance (see Figure 2-19), and a final stormwater study to assess site drainage is part of the final design. The existing storm sewer system will be replaced with surface channels and pipelines (designed for the final site contours) to accommodate stormwater requirements associated with a 100-year-storm, with considerations given to higher intensity events, such as a 500-year-storm. Although most of the surface will be replaced by clean backfill, areas will exist where potentially PCB-impacted soil not subject to remedial action will remain and be exposed to stormwater in channels such that soil could be eroded and discharged. In those areas, at least six inches of soil below the channel will be replaced with clean backfill (see Figure 2-19).

2.4.8 Confirmation Soil Sampling

Post-removal confirmation samples will be collected from the excavation bases and the sidewalls of the soil removal areas before backfilling in accordance with a sampling plan prepared for the design. Sidewall samples will not be collected if sheet piles are used to support an excavation. The results will be used to confirm that recalculated 95% upper confidence limit (UCL) exposure-point concentrations continue to result in a cumulative residual cancer risk at or below 1×10^{-5} and a hazard index less than 1. The sidewall samples will be collected as composite samples. A five-point composite sample will be collected per each approximately 100-foot segment of sidewall. Base samples will be collected as five-point composite samples from every 100-square-foot base area.

Base and sidewall samples will be analyzed for PCBs using USEPA Method 8082A. Analyses for other contaminants, such as polycyclic aromatic hydrocarbons (PAHs) using USEPA Method 8270, and volatile organic compounds (VOCs) using USEPA Method 8260B, will be performed at locations where these contaminants are being remediated per the RRA. Confirmation samples collected from the storm sewer piping excavations will be collected in the same manner and analyzed for PCBs. The composite sampling results will be used in an RRA recalculation to determine if RAO No. 1 has been achieved. If not, additional soil will be removed until the RAO has been met.

Post-removal confirmation samples will also be collected from the base and sidewalls of the product pipeline excavation and analyzed to verify that residual total-petroleum-hydrocarbon diesel-range organics (TPH-DRO) concentrations in remaining soil are less than the MDE OCP residential-cleanup goal of 230 mg/kg. The compliance division of the MDE OCP will be notified of the planned pipeline removal 30 days before excavation. Confirmation sampling requirements and results could be subject to OCP review and approval, and such requirements would be set forth by OCP officials upon notification. Preliminary discussion with OCP staff suggests that confirmation soil samples collected from the base and sidewall will likely be required every 50 feet along the length of the pipe within Block E. This activity is not part of the PCB remediation.

2.4.9 Waste Characterization and Disposal

Before remedial activities begin, soil in the excavation areas will be sampled and analyzed for waste disposal characterization at a minimum frequency of one sample per 500 cubic yards, or as required by the selected disposal facility. Sampling frequency might be increased depending on the volume of soil to be removed and waste disposal facility requirements. Samples will be analyzed by the toxicity characteristic leaching procedure (TCLP) and for parameters required by the waste disposal facility. For all required analyses except VOCs, composite samples consisting of three grab samples will be collected from each excavation area. Samples for VOC analysis will be collected as discrete samples from each excavation area before compositing.

Excavated soil will generally be loaded into trucks for transport for off-site disposal after waste characterization is complete and the waste disposal facility has accepted the waste. The

transportation method to the disposal facility (e.g., truck, rail, or barge) will be determined during design. Soil identified during pre-design delineation sampling as having PCB contamination greater than 50 mg/kg will be disposed of at a TSCA-regulated facility approved by Lockheed Martin. The remaining removed soil will be disposed of as nonhazardous waste at an approved Subtitle D landfill or recycling facility approved by Lockheed Martin. Approximately 33,000 tons of soil will be excavated, and transported to the selected facilities during this remedial action.

Approximately 24,000 tons of concrete will be removed and disposed of offsite or recycled on-site as part of the selected remedy. Following radiological testing, concrete will be disposed of or recycled as follows:

- If contaminated, concrete will be transported to a selected facility as follows:
    - Concrete with PCB concentrations greater than 50 mg/kg would be disposed of at a TSCA-approved facility (approximately 1,000 tons).
    - Concrete with PCB concentrations less than 50 mg/kg or unsuitable for recycling (for example, due to staining) would be disposed of at a nonhazardous waste landfill (approximately 4,000 tons).
- If uncontaminated, concrete may be broken on-site with crushing equipment that can cut reinforcing steel and wire mesh and may be used on-site as backfill (approximately 19,000 tons). Alternatively, the concrete would be broken up on-site and transported to a selected local recycling facility.

Air quality during soil and concrete handling would be evaluated using a combination of direct observation and perimeter sampling/monitoring stations. Water sprays would be used to control fugitive dust.

Trucks will be loaded continuously during working hours, anticipated to be 10 hours per day and five days per week. The number of trucks operating at the site might vary depending on availability. All trucks will be decontaminated (e.g., tires washed), screened for radioactivity, and affixed with appropriate signage. Loads will be secured with tarps, and truck safety-systems will be checked (e.g., brakes, signal lights, etc.) before leaving the site. Approximately two to three trucks per hour could be filled using direct-load techniques. Storm sewer piping, concrete, steel, and other construction/demolition materials resulting from the removal of the former structure's foundations

will be cleaned/decontaminated (as appropriate) and subsequently either crushed and recycled on-site as backfill or disposed of at an off-site facility permitted to accept such materials. Trucks will exit the site directly onto Chesapeake Park Plaza and follow the route shown on Figure 2-20.

2.4.10 Backfilling

Excavated areas will be backfilled after completion of post-removal confirmation sampling and excavation dewatering. Areas where the concrete and pavement has been removed will also be backfilled to the original grade. Additional fill (at least six inches) over the original grade will be needed for final grading and contouring for stormwater management and for stormwater channels to prevent erosion of soil with PCB concentrations greater than the sediment criterion (see Section 2.4.7). Clean backfill soil will be obtained primarily from an off-site borrow source and will be similar in grain size to the removed soil, as appropriate. The estimated quantity of backfill needed is 81,000 tons, which will be offset by on-site recycling of concrete as backfill, bringing the total backfill needed from off-site to approximately 60,000 tons. The portion of soil piles not impacted by BaPEq will be used as backfill if it meets the requirements of the Soil Management Plan for Blocks E and I (Tetra Tech, 2019b). Other materials, such as crushed stone, might also be used as backfill. Backfill material acceptance-criteria are described in the final design.

The off-site borrow source material will be evaluated according to procedures described in the MDE document *Facts about (Voluntary Cleanup Program) VCP—Clean Imported-Fill Material* (MDE, undated). The off-site borrow source will be identified, and its environmental and geologic documentation will be obtained. The environmental and geotechnical properties of the material will be evaluated to determine its suitability for use. If the borrow source is judged acceptable, soil samples will then be obtained and analyzed for chemicals of concern using the methods listed in the final design.

The minimum sampling frequency will be as recommended in the MDE clean-fill document and based on the size (i.e., area and volume) of the borrow source. Constituents detected in samples will be compared to MDE cleanup levels, to eastern-(Maryland) region anticipated typical concentrations (MDE, 2008), or to other MDE-approved risk-based concentrations. The off-site borrow source must be approved by MDE before transporting any backfill material onto the site.

Backfill material will be compacted to at least 90% of its maximum dry density, as determined by the standard proctor test using the ASTM International, Inc. (ASTM) Method D698-12 and/or American Association of State Highway and Transportation Officials (AASHTO) specification T-99. As noted in Section 2.5, the work will progress in stages, such that after slab removal, soil excavation, and confirmation sampling in one area has been completed, backfilling will begin while slab removal and excavation begin in another area.

2.4.11 Restoration

The top six inches of backfill in areas to be restored with vegetation will be medium-textured loam suitable for establishing vegetation (i.e., topsoil). The backfilled and regraded areas, along with other areas disturbed during implementation of the remedial action, will be restored/stabilized using permanent vegetative stabilization practices. Vegetative restoration will consist of surface preparation, fertilizing, seeding with grass, and mulching. A crushed stone road will be built in the southeastern corner to provide access to the groundwater treatment systems. The final grading is shown in Figure 2-19.

2.4.12 Groundwater Monitoring

A groundwater monitoring plan to evaluate the effects of the soil removal on the groundwater will be developed during the design phase. This plan will include sample locations, analyses, sampling frequency, and a set of environmental criteria metrics for comparison of the results. These results will also be used to establish that concentrations are stable or decreasing. Two years of semiannual groundwater monitoring will be conducted in several downgradient Block E wells to confirm attainment of RAO No. 3 (by confirming that PCB and 1,2,4-TCB concentrations in groundwater are not increasing after the remedial action has been implemented). For two years, at least twelve existing groundwater monitoring wells or their replacements if abandoned (MW-43A, MW-103A, MW-103B, MW-113A, MW-114A, MW-123A, MW-124A, MW-124B, MW-126A, MW-127A, MW-127B, and MW-130A) will be sampled each spring during the annual MRC groundwater monitoring program, and during an additional semiannual event each fall. Groundwater samples will be analyzed for PCBs and 1,2,4-TCB using USEPA SW-846 Method 680 and USEPA SW-846 Method 8260B, respectively.

2.4.13 Institutional Controls

Institutional controls are needed so that site use and activities are consistent with PRGs. MDE will document institutional controls applicable to Block E soil in the "No Further Action" letter that will be issued once the three RAOs have been met. The environmental covenants defined in the "No Further Action" letter will be filed in local land use records and will pass to subsequent property owners as part of the deed documentation. MDE regards all institutional controls as existing in perpetuity unless the related environmental covenants are eliminated or modified by mutual consent of the stakeholders. As part of the "No Further Action" letter and supporting documentation, MDE will present certain environmental covenants that will give stakeholders legal standing to enforce them.

MDE will determine final disposition of any institutional controls. Institutional controls will typically apply to the entire tax block as to be agreed upon by MDE and Lockheed Martin Corporation (Lockheed Martin). Anticipated institutional controls include:

- restrictions on use of the property for other than industrial purposes
- notification and handling requirements for soil during future excavations or construction
- prohibitions on using groundwater beneath the property for any purpose

2.4.14 Best Management Practices

Potential impacts during construction of the remedy and during soil removal will be limited by implementing the following measures and best management practices (BMPs) during construction, as appropriate:

- ***Erosion and sedimentation controls:*** Erosion and sediment controls will be installed at the site as they are depicted on the design drawings. The contractor will implement these controls throughout the project and adjust as needed to comply with the grading permit and other agency requirements.
- ***Management of water that has contacted contaminated soil and concrete:*** Stormwater that contacts soil stockpiles, exposed soil surfaces, and foundation slab surfaces, and water draining from stockpiles of soil from the saturated zone will be contained and treated on-site. Treated water will be sampled to comply with discharge requirements.

- ***Spill prevention controls:*** A spill prevention, control, and countermeasure plan per Maryland state guidelines will protect the environment from spills and releases of any hazardous materials or petroleum products. Spill prevention measures will be applied during construction and when transporting excavated soil. Trucks used for soil transport will be equipped with an impermeable liner to prevent leaks. The trucks will be inspected to prevent any spills during transport.

- ***Air, noise, and dust/odor monitoring:*** Dust particles and odors from project activities will be controlled at all times. Dust and odor management can include wetting excavation areas, unpaved traffic lanes, and soil stockpiles; covering trucks loaded with soil and concrete; covering stockpiles with plastic sheeting during inactive periods; and at least daily sweeping during dry weather of any paved on-site truck routes, loader paths, and loading and stockpile areas. Monitoring of fugitive dust within the work zone and along the perimeter will evaluate and confirm or trigger the use of best management practices to ensure acceptable conditions exist beyond the work zone. Noise will be controlled by limiting work activities to normal working hours.

2.5 SEQUENCE OF SOIL REMOVAL ACTION ACTIVITIES

Remediation is projected to be performed from April 2021 through December 2021. The expected general sequence of activities is described below, but the excavation and slab removal work will progress in stages, such that after slab removal and soil excavation in one area has been completed, backfilling will begin while slab removal and excavation begin in another area.

- mobilization of equipment
- site survey
- waste characterization and additional delineation sampling (concrete)
- placement of erosion and sediment controls
- placement of fugitive dust monitoring equipment
- initial radiological screening
- removal and stockpiling of existing soil piles overlying the concrete slab, with disposal of PAH-contaminated portion
- installation of retaining wall on western side of site
- abandonment of monitoring wells within the footprints of the excavations

- demolition and disposal of the concrete slab and some foundation footers and piles over PCB-contaminated areas, with on-site recycling of uncontaminated concrete. Deep piles will be cut at the bottom of the excavation. (Note that slab removal, excavation, and backfilling activities in different areas will overlap.)

- continued radiological screening and floor drain removal

- excavation and disposal of PCB-contaminated soil, including stockpiling of sidewall slope soil

- post-removal confirmation sampling and analysis

- backfilling of initially excavated areas with clean backfill to minimize dewatering

- excavation and disposal of PCB-contaminated soil, and backfilling, in median of Chesapeake Park Plaza

- dewatering of excavations, as needed, and treatment of water

- demolition and disposal of other adjacent concrete and asphalt surfaces including remaining slab (uncontaminated concrete and asphalt can be recycled on-site)

- removal and disposal of designated storm sewers in Block E, and backfilling

- removal and replacement of storm sewers in Block F

- removal and disposal or recycling of the product pipeline

- final backfilling, grading, revegetation, and installation of new storm sewers for new stormwater management system

- installation of replacement monitoring wells

- final site survey

- demobilization of equipment

2.6 CONTINGENCIES

The remediation plan outlined in Sections 2.4 and 2.5 includes contingency actions that may be required if challenges or unexpected conditions are encountered during remedy implementation. These contingencies are summarized below:

Post-removal confirmation samples will be collected when possible from the excavation bottoms and sidewalls before backfilling. Sidewall samples will not be collected if sheet piles are used to support an excavation. Individual confirmation sampling results will be added as input to the Block E surface- and subsurface-soil data sets used for the RRA to confirm that the recalculated 95% UCL exposure-point concentrations continue to result in a cumulative residual-cancer-risk at or below 1×10^{-5} (i.e., a one-in-100,000 probability) and less than a hazard index of 1. If this risk level is not met, additional soil will be removed beyond the design soil removal limits until the risk management criteria are met.

Soil excavated beyond the targeted subsurface excavation footprint to produce the stable slope for excavation sidewall will be segregated, stockpiled, tested, and reused as backfill. If analysis of the soil shows it is not suitable for use as backfill, it will be disposed of off-site and additional backfill material will be brought to the site.

Sampling in 2003 did not identify impacts to soil beneath the product pipeline, and total petroleum hydrocarbons (TPH) are not considered a significant contributor to risk. Confirmatory sampling will be conducted in the product pipeline excavation to verify removal of soil with TPH-DRO concentrations greater than the MDE OCP residential cleanup goal (230 mg/kg). Confirmatory sampling will determine whether additional soil removal might be required from the product pipeline footprint until concentrations of TPH-DRO in the base and sidewall soil samples are confirmed to be below the MDE OCP residential cleanup goal. Note that this activity is not part of the PCB remediation.

The foundation slab, subgrade soil, and drain lines will be surveyed for possible radioactive residue from materials that might have historically been used at former Building D. All radioactive material identified during radiological surveys will be packaged, removed to an isolated material accumulation area, sampled for offsite disposal facility waste acceptance criteria, and staged for offsite shipment.

Groundwater monitoring, with analyses for PCBs and 1,2,4-TCB, will continue in several Block E wells for two years after the remedial action is complete to verify that the remedial action satisfies

RAOs. If the results show statistically significant increases in contaminant concentrations, then additional actions such as continued monitoring or groundwater remediation will be considered.

SECTION 3
COMMUNITY OUTREACH/COMMUNICATIONS PLAN

A site community outreach plan is developed and will continue to be implemented before any of the remediation work outlined in this application begins. The plan helps establish, maintain, and develop working relationships with stakeholders to ensure that constructive communication channels are maintained, and to ensure that issues or concerns that might arise are efficiently and effectively resolved. Community outreach includes a systematic plan to communicate information regarding remedial actions to the local community neighbors and to solicit feedback. These outreach efforts aim to:

- continue Lockheed Martin Corporation's (Lockheed Martin's) commitment to engage the public in an informational and educational process;
- better understand stakeholders' concerns, issues, and needs; and
- resolve issues efficiently and effectively while maintaining the integrity of Lockheed Martin's remediation and community outreach efforts.

The outreach program ensures that interested stakeholders have front-end input; Lockheed Martin considers this input to make appropriate decisions for the impacted area. The community outreach plan is intended to enable resolution of all stakeholder issues and concerns efficiently and effectively with mutual gains for all parties whenever possible. The plan is designed to be resilient so that it meets changing needs of stakeholders, Lockheed Martin, and regulators.

Community outreach for this project will include:

- briefing Civic Association Leaders;
- distributing a Citizens Guide or newsletter providing project information, an invitation to participate in a public information session, and notification of a public comment period on draft plans prior to their finalization;
- placing display ads to notify about the public information session;

- holding a public information session; and
- holding a public comment period.

In addition, once the project is underway, ongoing outreach will continue to keep the local community informed about the work until the project is completed.

SECTION 4
CERTIFIED STATEMENT FOR U.S. ENVIRONMENTAL PROTECTION AGENCY REQUIREMENTS

- *40 CFR §761.61(a)(3)(i)(E): A written certification, signed by the owner of the property where the cleanup site is located and the party conducting the cleanup, that all sampling plans, sample collection procedures, extraction procedures, and instrumental/chemical procedures used to characterize polychlorinated biphenyl (PCB) contamination at the cleanup site are on file at the location designated in the certificate and are available for United States Environmental Protection Agency (USEPA) inspection.*

Lockheed Martin Corporation hereby certifies that all sampling plans, sample collection procedures, sample preparation procedures, extraction procedures, and instrumental/chemical analysis procedures used to assess or characterize polychlorinated biphenyl contamination in the soil at Block E of the Middle River Complex in Middle River, Maryland, have been submitted to the United States Environmental Protection Agency and are on file and available for review at the Essex Public Library, 1110 Eastern Boulevard, Essex, Maryland. The list of documents submitted to the United States Environmental Protection Agency is in Appendix C. Tables of all polychlorinated biphenyl data, laboratory reports, and data validation reports for all samples collected by Lockheed Martin for soil, concrete, and sediment at Block E in the Middle River Complex is in Appendix D.

Thomas D. Blackman
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Lockheed Martin Corporation

Tom Green
Senior Manager – Real Estate
Lockheed Martin Properties Inc.

SECTION 5
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APPENDICES

Appendix A—Figures and Tables

Appendix B—Leapfrog Figures from Remedial Investigation Report

Appendix C—Data/Design Reports Submitted to the United States Environmental Protection Agency

Appendix D—Site PCB Data, Laboratory and Validation Reports

APPENDIX A—FIGURES AND TABLES

FIGURES

Figure 2-19 Final Grading and Stormwater Conveyance (Placeholder)

Figure 2-20 Truck Route (Placeholder)

2017 aerial photograph provided by the State of Maryland.

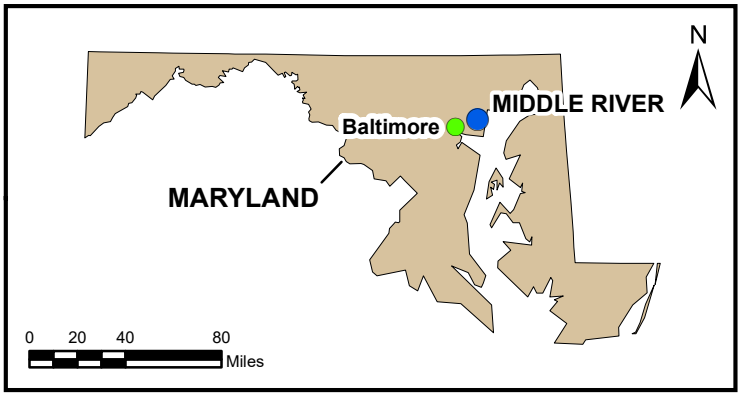

FIGURE 1-1

SITE LOCATION MAP
MIDDLE RIVER COMPLEX

Lockheed Martin Middle River Complex
Middle River, Maryland

DATE MODIFIED:	CREATED BY:
12/10/18	JEE

TETRA TECH

Map Document: (P:\GIS\Middle_River\MapDocs\MXD\mrc_sitemap_aug2018.mxd)
12/10/18 -- JEE

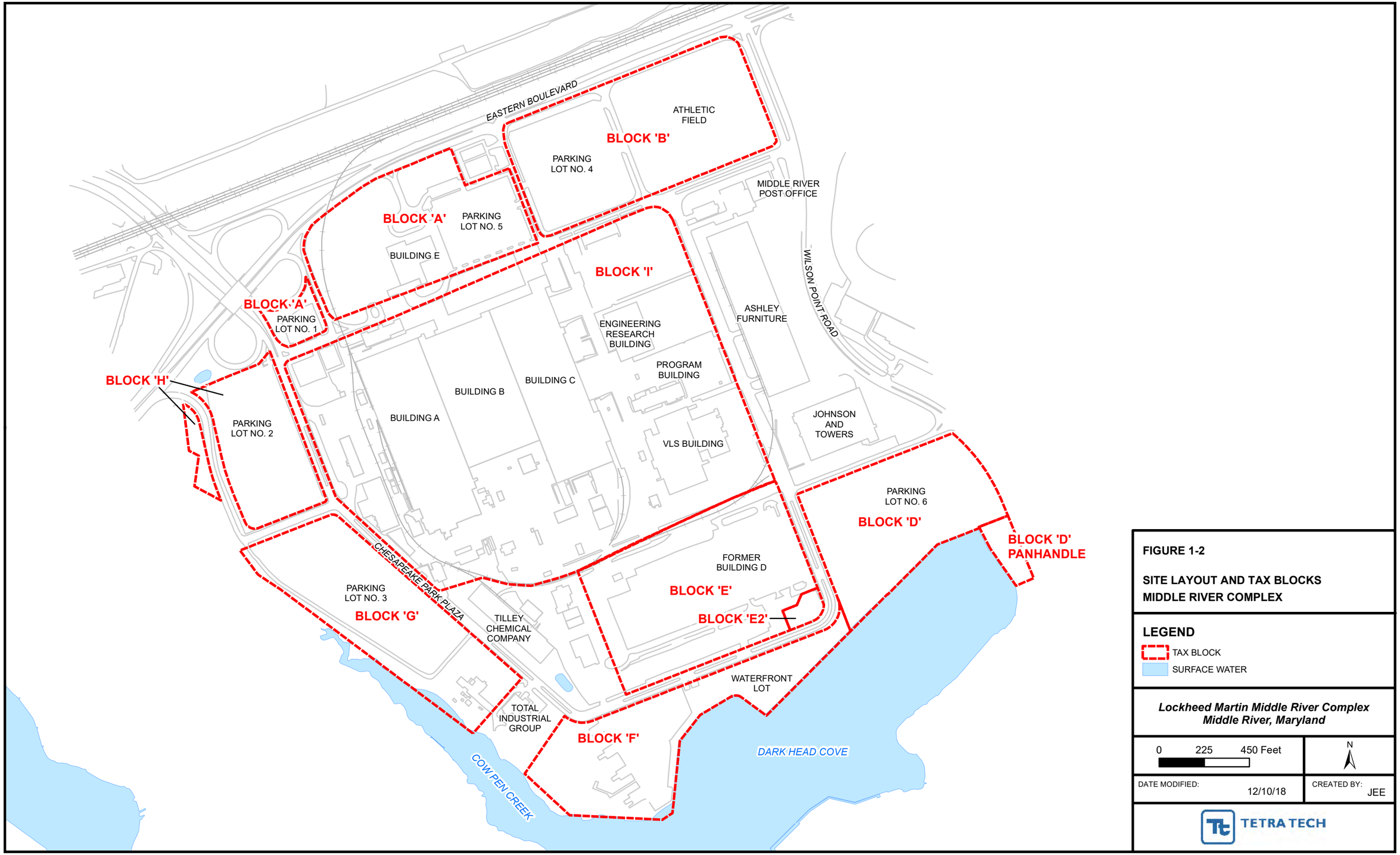

FIGURE 1-2

SITE LAYOUT AND TAX BLOCKS
MIDDLE RIVER COMPLEX

LEGEND

TAX BLOCK

SURFACE WATER

Lockheed Martin Middle River Complex
Middle River, Maryland

0 225 450 Feet

N

DATE MODIFIED: 12/10/18

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TETRA TECH

Map Document: (P:\GIS\Middle_River\MapDocs\MXD\mrc_tax_blocks_jul2018.mxd)
12/10/18 -- JEE

FIGURE 1-3

HISTORICAL TAX BLOCK E FEATURES

LEGEND

- STORM DRAIN OUTFALL
- STORM DRAIN MANHOLE
- STORM DRAIN CATCH BASIN INLET
- CONFIRMED STORM DRAIN LINE
- APPROXIMATE STORM DRAIN LINE
- APPROXIMATE LOCATION OF HISTORIC FIRE WATER LINE
- FORMER PRODUCT LINE TO BE REMOVED
- PRE-1950 SHORELINE
- HISTORIC OPERATIONAL AREA
- FORMER TRANSFORMER ROOM
- OUTLINE OF FORMER BUILDING D
- TAX BLOCK

AST = Abovegrond storage tank.
UST = Undergrond storage tank.
2017 aerial photograph provided by the State of Maryland.

Lockheed Martin Middle River Complex
Middle River, Maryland

0 60 120 Feet

N

DATE MODIFIED: 02/20/19

CREATED BY: JEE

TETRA TECH

Map Document: (P:\GIS\Middle_River\MapDocs\MXD\block_e_features_feb2019.mxd)
02/20/19 -- JEE

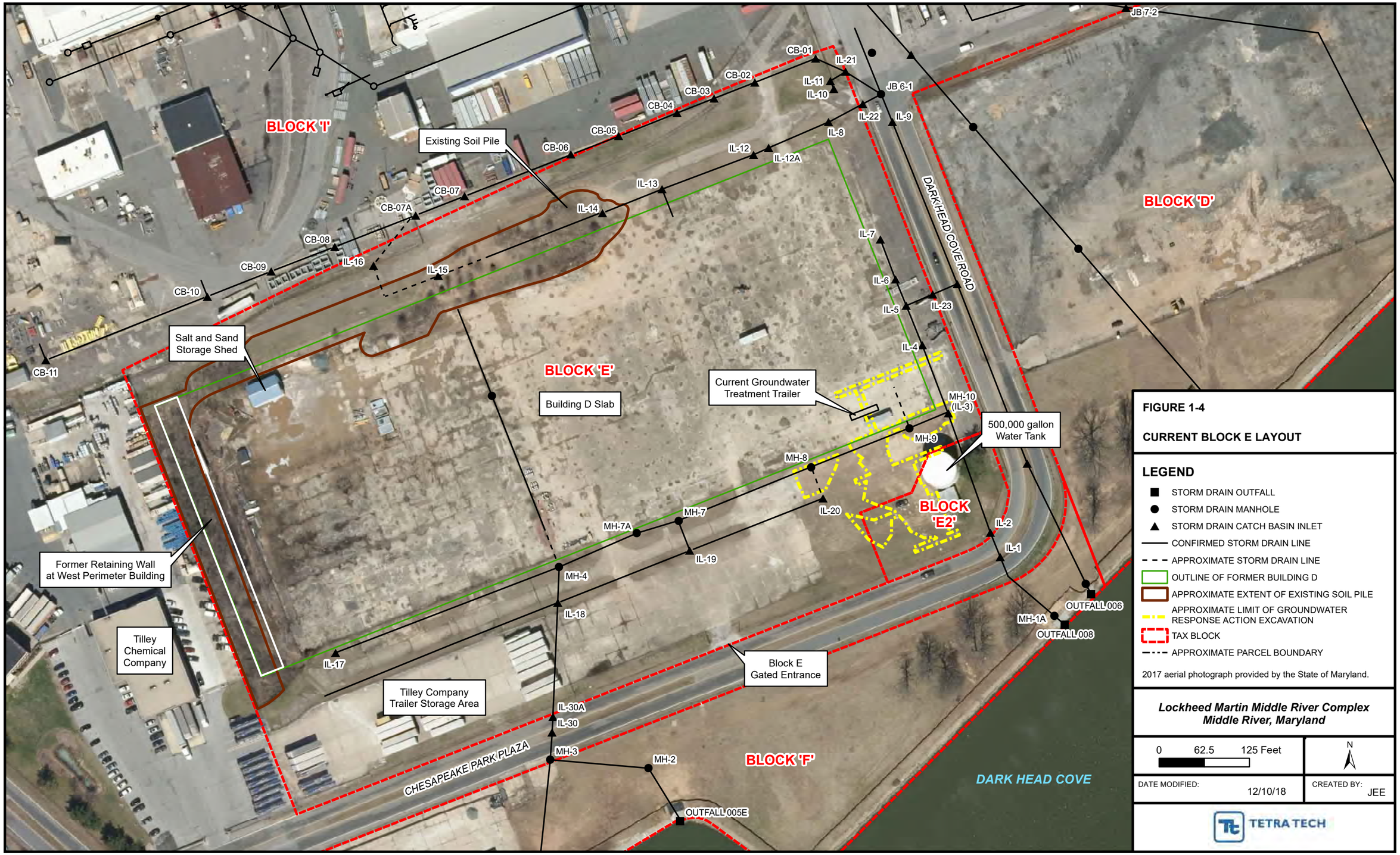


FIGURE 1-4

CURRENT BLOCK E LAYOUT

LEGEND

- STORM DRAIN OUTFALL
- STORM DRAIN MANHOLE
- STORM DRAIN CATCH BASIN INLET
- CONFIRMED STORM DRAIN LINE
- APPROXIMATE STORM DRAIN LINE
- OUTLINE OF FORMER BUILDING D
- APPROXIMATE EXTENT OF EXISTING SOIL PILE
- APPROXIMATE LIMIT OF GROUNDWATER RESPONSE ACTION EXCAVATION
- TAX BLOCK
- APPROXIMATE PARCEL BOUNDARY

2017 aerial photograph provided by the State of Maryland.

Lockheed Martin Middle River Complex
Middle River, Maryland

0 62.5 125 Feet

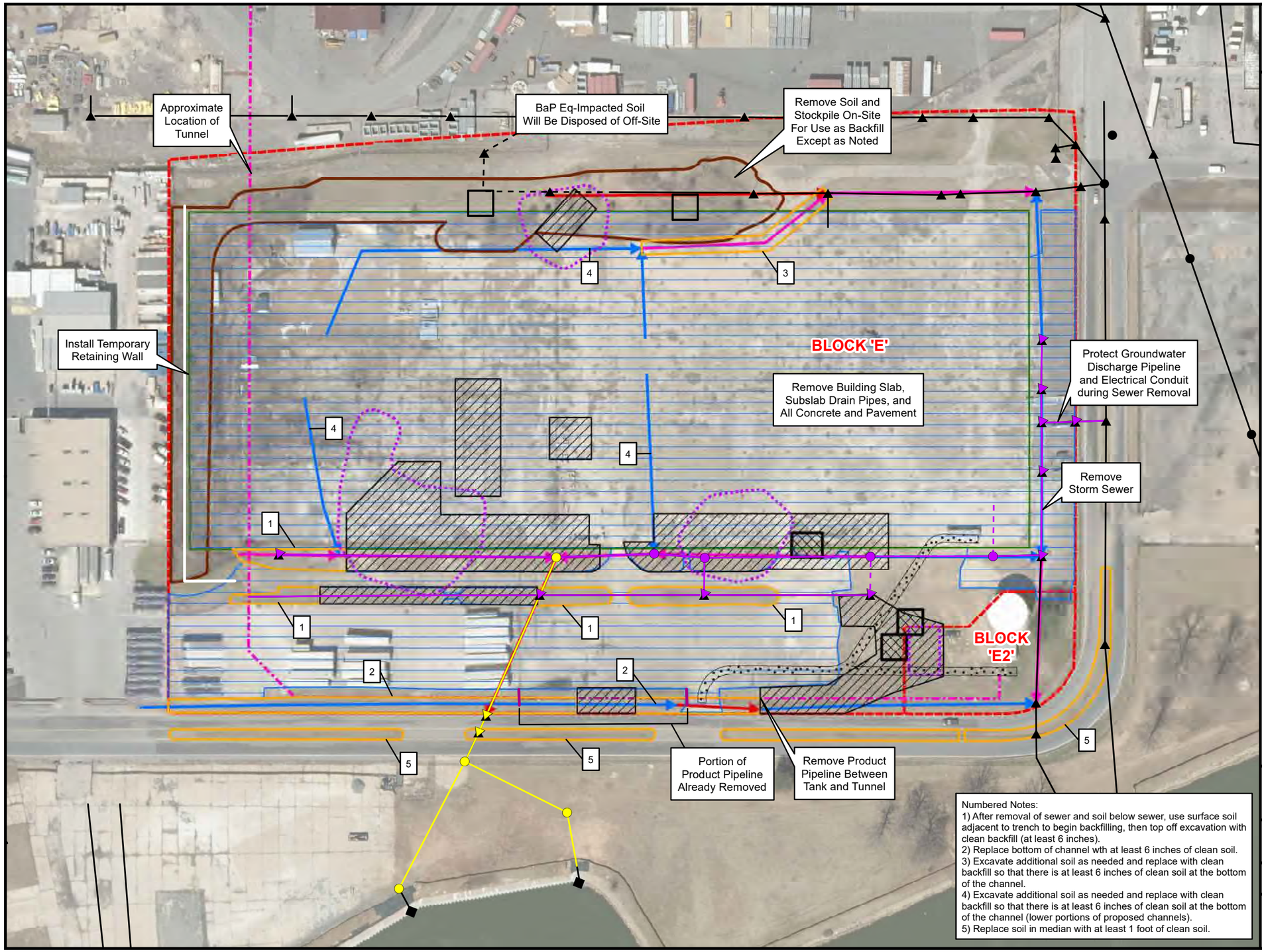
N

DATE MODIFIED: 12/10/18

CREATED BY: JEE

TETRA TECH

Map Document: (P:\GIS\Middle_River\MapDocs\MXD\block_e_subareas_apr2018.mxd)
12/10/18 -- JEE



Numbered Notes:
1) After removal of sewer and soil below sewer, use surface soil adjacent to trench to begin backfilling, then top off excavation with clean backfill (at least 6 inches).
2) Replace bottom of channel wth at least 6 inches of clean soil.
3) Excavate additional soil as needed and replace with clean backfill so that there is at least 6 inches of clean soil at the bottom of the channel.
4) Excavate additional soil as needed and replace with clean backfill so that there is at least 6 inches of clean soil at the bottom of the channel (lower portions of proposed channels).
5) Replace soil in median with at least 1 foot of clean soil.

FIGURE 1-5

COMBINED REMEDIAL ACTIVITIES

LEGEND

Proposed Replacement Storm Sewer Lines - See Appendix J

- Channel
- Pipe
- Pipe / Channel
- Storm Sewer Manhole to be Removed
- Storm Sewer Catch Basin to be Removed
- Confirmed Storm Sewer Line to be Removed
- Approximate Storm Sewer Line to be Removed
- Storm Sewer Manhole to be Removed and Replaced
- Storm Sewer Catch Basin to be Removed and Replaced
- Confirmed Storm Sewer Line to be Removed and Replaced
- Confirmed Storm Sewer Line to Remain
- Storm Sewer Manhole to Remain
- Storm Sewer Catch Basin to Remain
- Storm Sewer Outfall to Remain
- Approximate Storm Sewer Line to Remain
- Former Product Line To Be
- Concrete and Pavement To Be
- Soil Excavation to a Depth of 2 Feet
- Soil Excavation to a Depth of 3 Feet
- Extent of Deep Soil Excavation
- Crushed Stone Road for Access to Groundwater Treatment Systems
- Outline of Former Building D
- Approximate Extent of Existing Soil Piles
- Tax Block
- Surface Soil Replacement to Meet RAO No. 2, per Numbered Notes
- 2 See Numbered Notes

2017 aerial photograph provided by the State of Maryland.

Lockheed Martin Middle River Complex
Middle River, Maryland

0 60 120 Feet

N

DATE MODIFIED: 02/20/19

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TETRA TECH

Map Document: (P:\GIS\Middle_River\MapDocs\MXD\block_e_prg_remediation_common_elements_feb2019.mxd)
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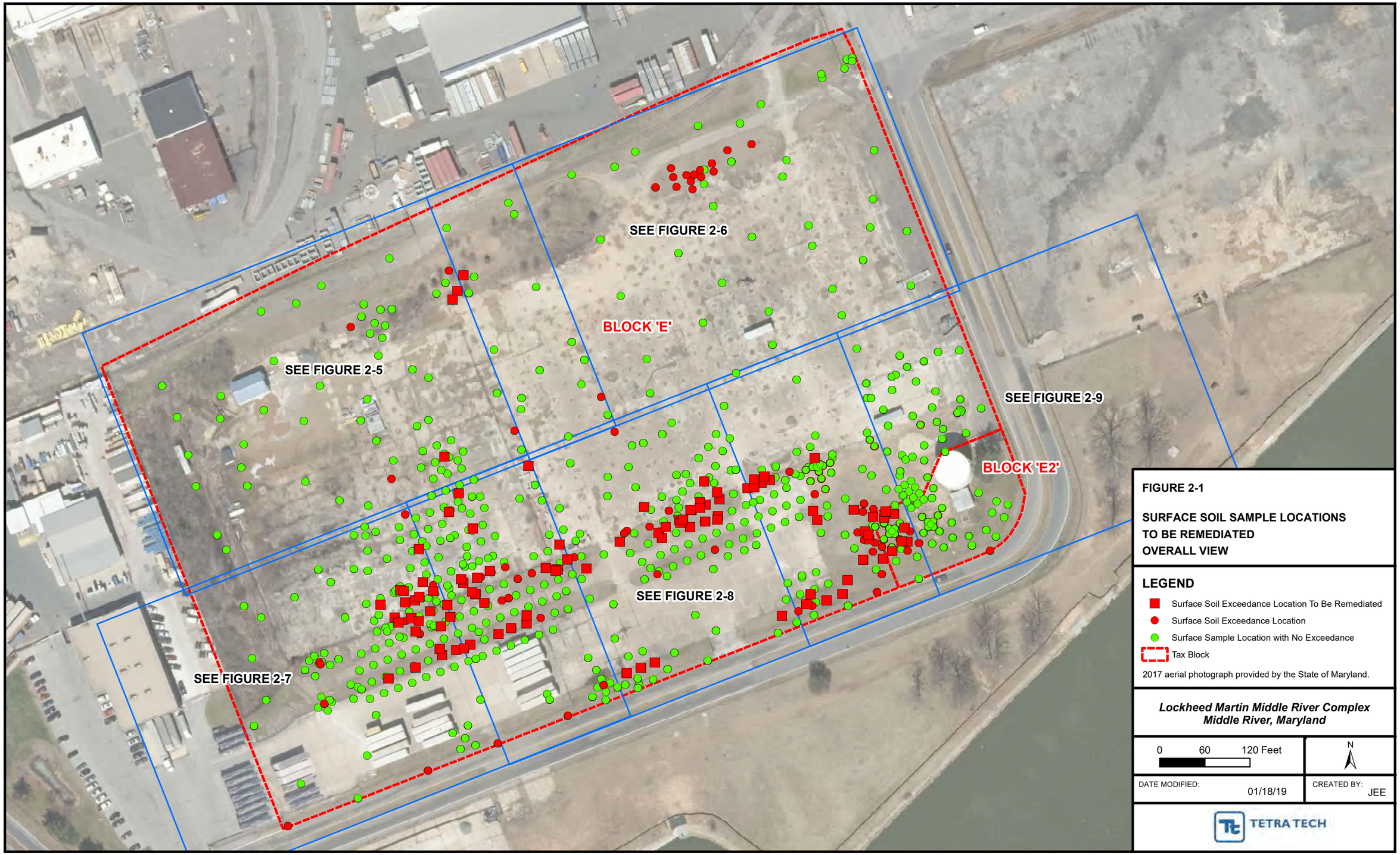

FIGURE 2-1

SURFACE SOIL SAMPLE LOCATIONS TO BE REMEDIATED OVERALL VIEW

LEGEND

- Surface Soil Exceedance Location To Be Remediated
- Surface Soil Exceedance Location
- Surface Sample Location with No Exceedance
- Tax Block

2017 aerial photograph provided by the State of Maryland.

Lockheed Martin Middle River Complex
Middle River, Maryland

0 60 120 Feet

N

DATE MODIFIED: 01/18/19

CREATED BY: JEE

TETRA TECH

Map Document: (P:\GIS\Middle_River\MapDocs\MXD\block_e_prg_remediation_aug2018_surface_overall_backfill_rap.mxd)
01/18/19 -- JEE

SEE FIGURE 2-12

SEE FIGURE 2-11

BLOCK 'E'

These locations are only impacted by TCE and will be addressed by the groundwater treatment system

SEE FIGURE 2-15

BLOCK 'E2'

SEE FIGURE 2-14

SEE FIGURE 2-13

FIGURE 2-2

SUBSURFACE SAMPLE LOCATIONS TO BE REMEDIATED OVERALL VIEW

LEGEND

- Subsuface Soil Exceedance Location To Be Remediated
- Subsurface Soil Exceedance Location
- Subsurface Sample Location with No Exceedance
- Tax Block

2017 aerial photograph provided by the State of Maryland.

Lockheed Martin Middle River Complex
Middle River, Maryland

0 60 120 Feet

N

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TETRA TECH

Map Document: (P:\GIS\Middle_River\MapDocs\MXD\block_e_prg_remediation_aug2018_subsurface_overall_rap.mxd)
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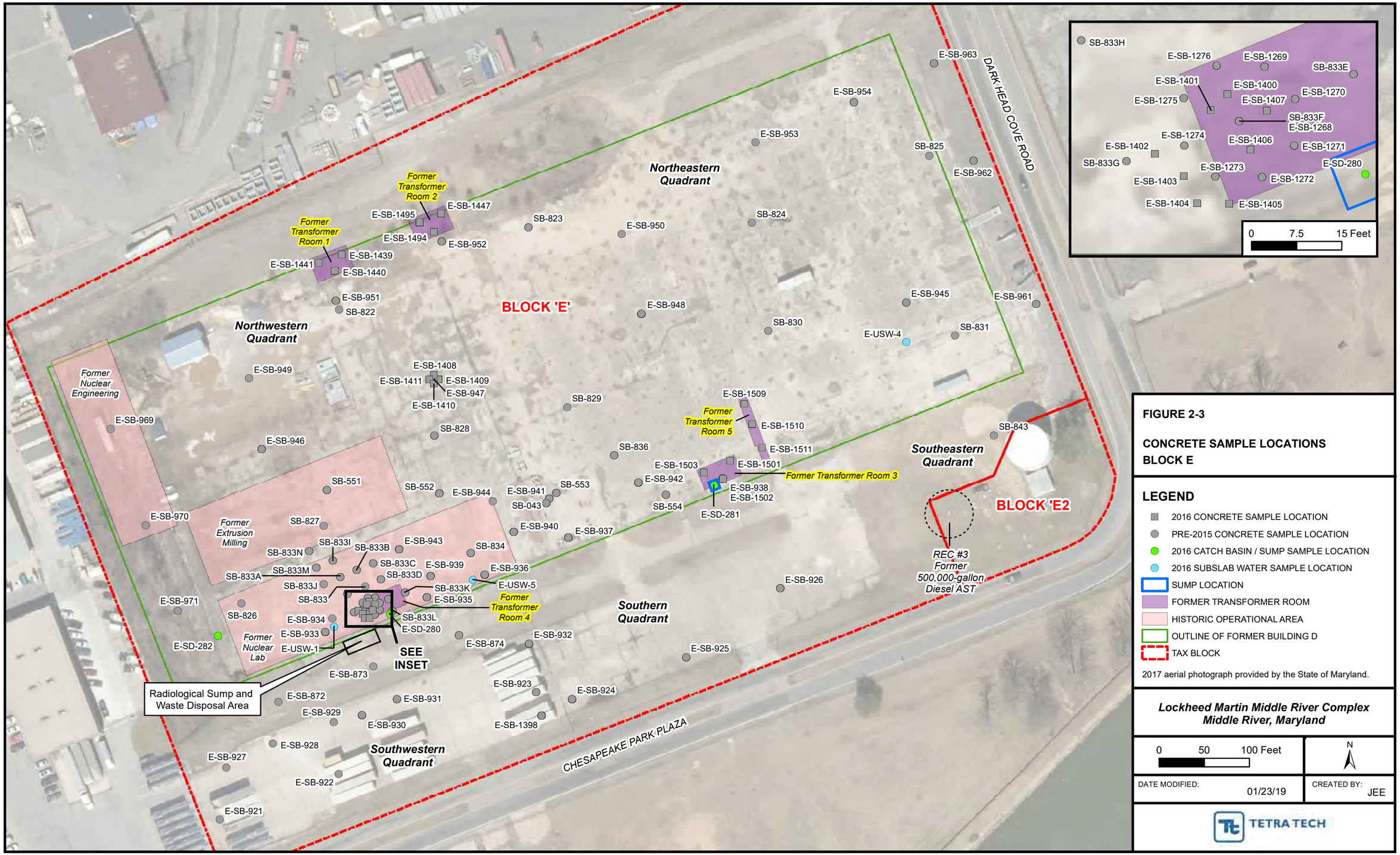

FIGURE 2-3

CONCRETE SAMPLE LOCATIONS
BLOCK E

LEGEND

- 2016 CONCRETE SAMPLE LOCATION
- PRE-2015 CONCRETE SAMPLE LOCATION
- 2016 CATCH BASIN / SUMP SAMPLE LOCATION
- 2016 SUBSLAB WATER SAMPLE LOCATION
- SUMP LOCATION
- FORMER TRANSFORMER ROOM
- HISTORIC OPERATIONAL AREA
- OUTLINE OF FORMER BUILDING D
- TAX BLOCK

2017 aerial photograph provided by the State of Maryland.

Lockheed Martin Middle River Complex
Middle River, Maryland

0 50 100 Feet

N

DATE MODIFIED: 01/23/19

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TETRA TECH

Map Document: (P:\GIS\Middle_River\MapDocs\MXD\block_e_concrete_samplocs_2004_2017.mxd)
01/23/19 -- JEE

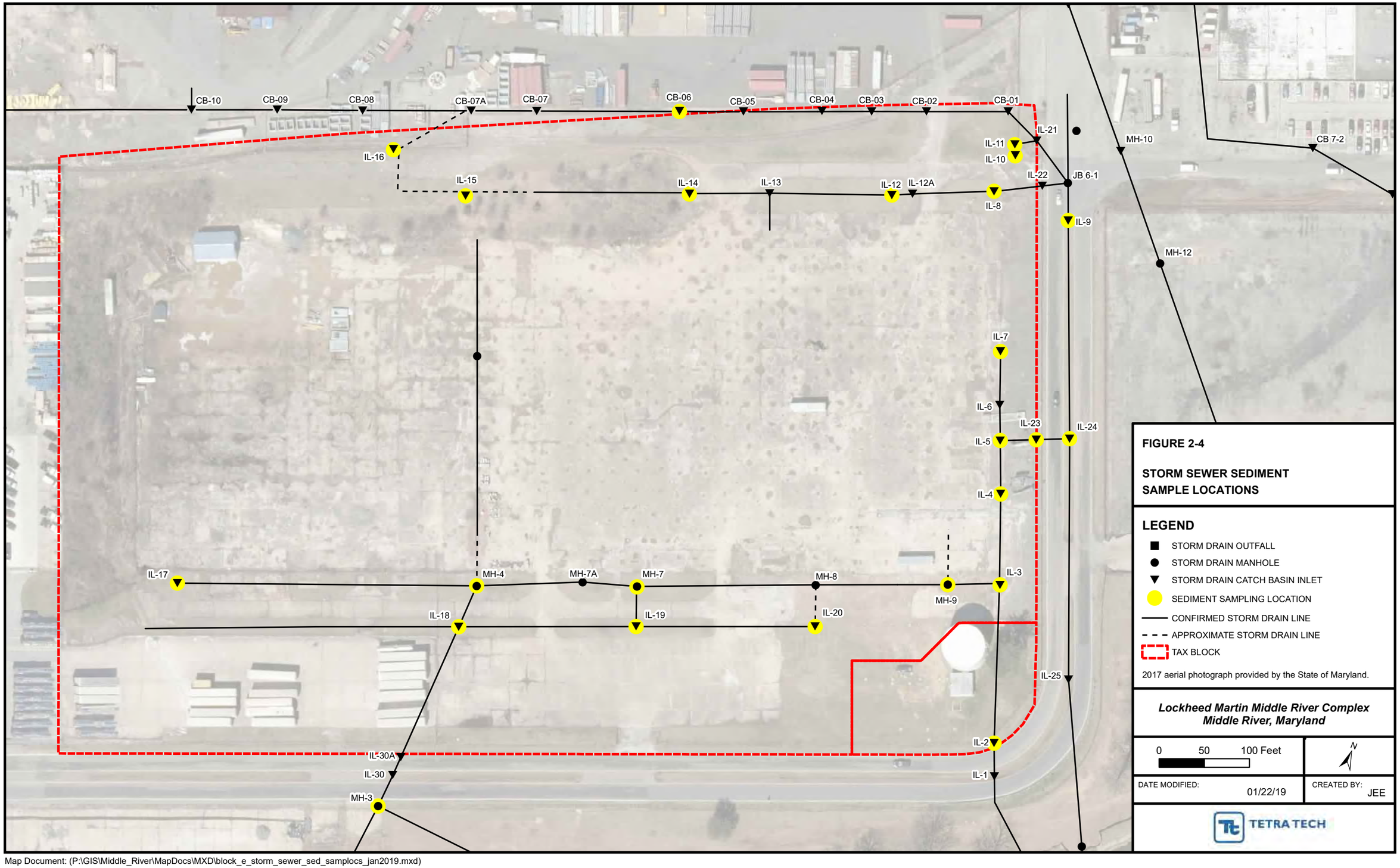

FIGURE 2-4

STORM SEWER SEDIMENT SAMPLE LOCATIONS

LEGEND

- STORM DRAIN OUTFALL
- STORM DRAIN MANHOLE
- STORM DRAIN CATCH BASIN INLET
- SEDIMENT SAMPLING LOCATION
- CONFIRMED STORM DRAIN LINE
- APPROXIMATE STORM DRAIN LINE
- TAX BLOCK

2017 aerial photograph provided by the State of Maryland.

Lockheed Martin Middle River Complex
Middle River, Maryland

0 50 100 Feet

N

DATE MODIFIED: 01/22/19

CREATED BY: JEE

TETRA TECH

Map Document: (P:\GIS\Middle_River\MapDocs\MXD\block_e_storm_sewer_sed_samplocs_jan2019.mxd)
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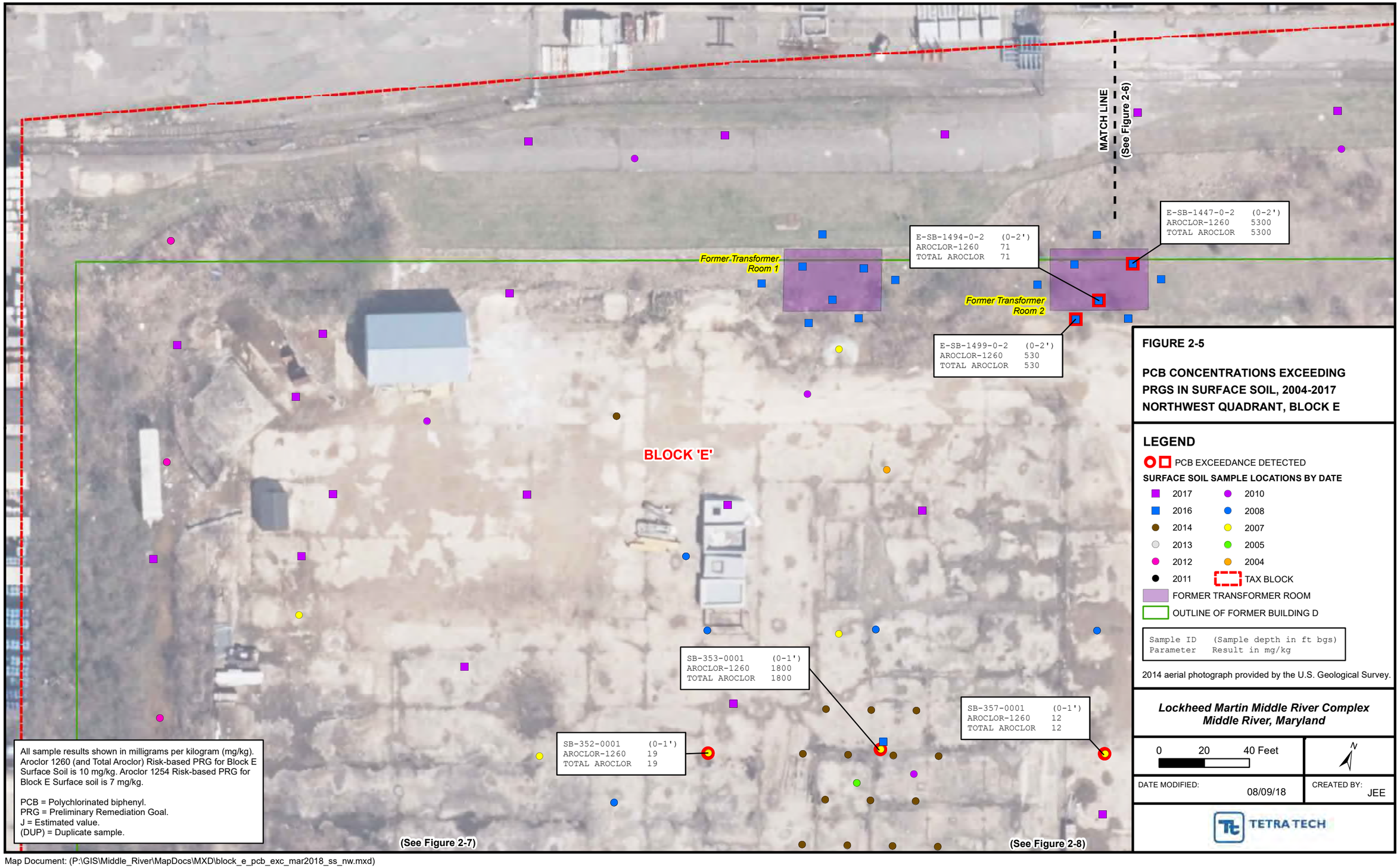


All sample results shown in milligrams per kilogram (mg/kg). Aroclor 1260 (and Total Aroclor) Risk-based PRG for Block E Surface Soil is 10 mg/kg. Aroclor 1254 Risk-based PRG for Block E Surface soil is 7 mg/kg.

PCB = Polychlorinated biphenyl.
PRG = Preliminary Remediation Goal.
J = Estimated value.
(DUP) = Duplicate sample.

FIGURE 2-5

PCB CONCENTRATIONS EXCEEDING PRGS IN SURFACE SOIL, 2004-2017 NORTHWEST QUADRANT, BLOCK E

LEGEND

PCB EXCEEDANCE DETECTED

SURFACE SOIL SAMPLE LOCATIONS BY DATE

2017	2010
2016	2008
2014	2007
2013	2005
2012	2004
2011	TAX BLOCK

FORMER TRANSFORMER ROOM

OUTLINE OF FORMER BUILDING D

Sample ID (Sample depth in ft bgs)
Parameter Result in mg/kg

2014 aerial photograph provided by the U.S. Geological Survey.

Lockheed Martin Middle River Complex
Middle River, Maryland

0 20 40 Feet

DATE MODIFIED: 08/09/18

CREATED BY: JEE

TETRA TECH

Map Document: (P:\GIS\Middle_River\MapDocs\MXD\block_e_pcb_exc_mar2018_ss_nw.mxd)
08/09/18 -- JEE

(Exceedances in Transformer Room 2 shown on Figure 5-2)

Former Transformer Room 2

BLOCK 'E'

MATCH LINE (See Figure 2-5)

All sample results shown in milligrams per kilogram (mg/kg). Aroclor 1260 (and Total Aroclor) Risk-based PRG for Block E Surface Soil is 10 mg/kg. Aroclor 1254 Risk-based PRG for Block E Surface soil is 7 mg/kg.

PCB = Polychlorinated biphenyl.
PRG = Preliminary Remediation Goal.
J = Estimated value.
(DUP) = Duplicate sample.

```
SB-364-0001      (0-1')
AROCLOR-1260     12
TOTAL AROCLOR    12
```

(See Figure 2-8)

(See Figure 2-9)

FIGURE 2-6

PCB CONCENTRATIONS EXCEEDING PRGS IN SURFACE SOIL, 2004-2017 NORTHEAST QUADRANT, BLOCK E

LEGEND

- PCB EXCEEDANCE DETECTED

SURFACE SOIL SAMPLE LOCATIONS BY DATE

2017	2010
2016	2008
2014	2007
2013	2005
2012	2004
2011	

- FORMER TRANSFORMER ROOM
- OUTLINE OF FORMER BUILDING D
- TAX BLOCK

```
Sample ID    (Sample depth in ft bgs)
Parameter    Result in mg/kg
```

2014 aerial photograph provided by the U.S. Geological Survey.

Lockheed Martin Middle River Complex
Middle River, Maryland

0 20 40 Feet

N

DATE MODIFIED: 08/09/18

CREATED BY: JEE

TETRA TECH

Map Document: (P:\GIS\Middle_River\MapDocs\MXD\block_e_pcb_exc_mar2018_ss_ne.mxd)
08/09/18 -- JEE

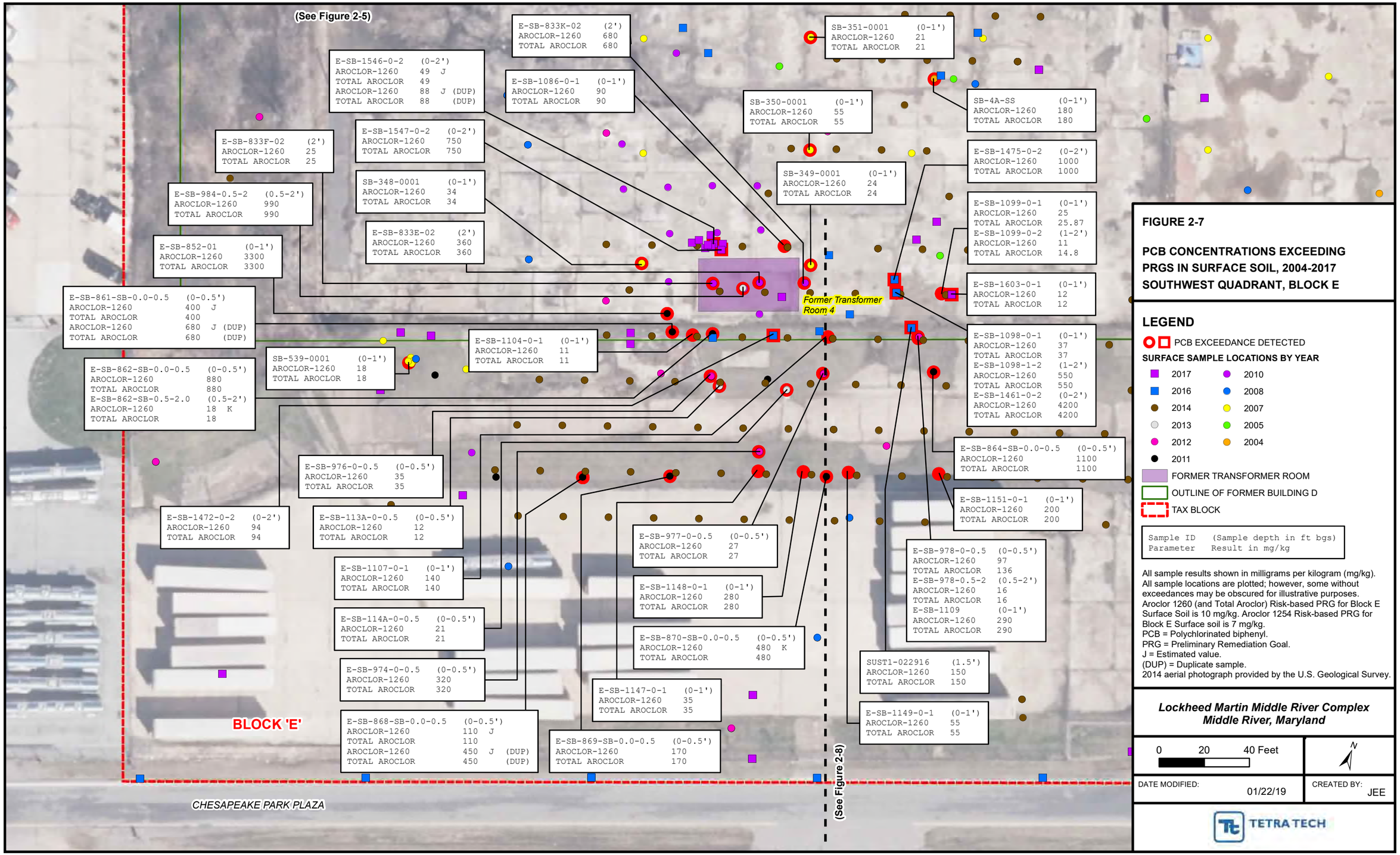


FIGURE 2-7

PCB CONCENTRATIONS EXCEEDING PRGS IN SURFACE SOIL, 2004-2017 SOUTHWEST QUADRANT, BLOCK E

LEGEND

PCB EXCEEDANCE DETECTED

SURFACE SAMPLE LOCATIONS BY YEAR

2017	2010
2016	2008
2014	2007
2013	2005
2012	2004
2011	

FORMER TRANSFORMER ROOM

OUTLINE OF FORMER BUILDING D

TAX BLOCK

```
Sample ID    (Sample depth in ft bgs)
Parameter    Result in mg/kg
```

All sample results shown in milligrams per kilogram (mg/kg).
All sample locations are plotted; however, some without exceedances may be obscured for illustrative purposes.
Aroclor 1260 (and Total Aroclor) Risk-based PRG for Block E Surface Soil is 10 mg/kg. Aroclor 1254 Risk-based PRG for Block E Surface soil is 7 mg/kg.
PCB = Polychlorinated biphenyl.
PRG = Preliminary Remediation Goal.
J = Estimated value.
(DUP) = Duplicate sample.
2014 aerial photograph provided by the U.S. Geological Survey.

Lockheed Martin Middle River Complex
Middle River, Maryland

0 20 40 Feet

N

DATE MODIFIED: 01/22/19

CREATED BY: JEE

TETRA TECH

Map Document: (P:\GIS\Middle_River\MapDocs\MXD\block_e_pcb_exc_mar2018_ss_sw.mxd)
01/22/19 -- JEE

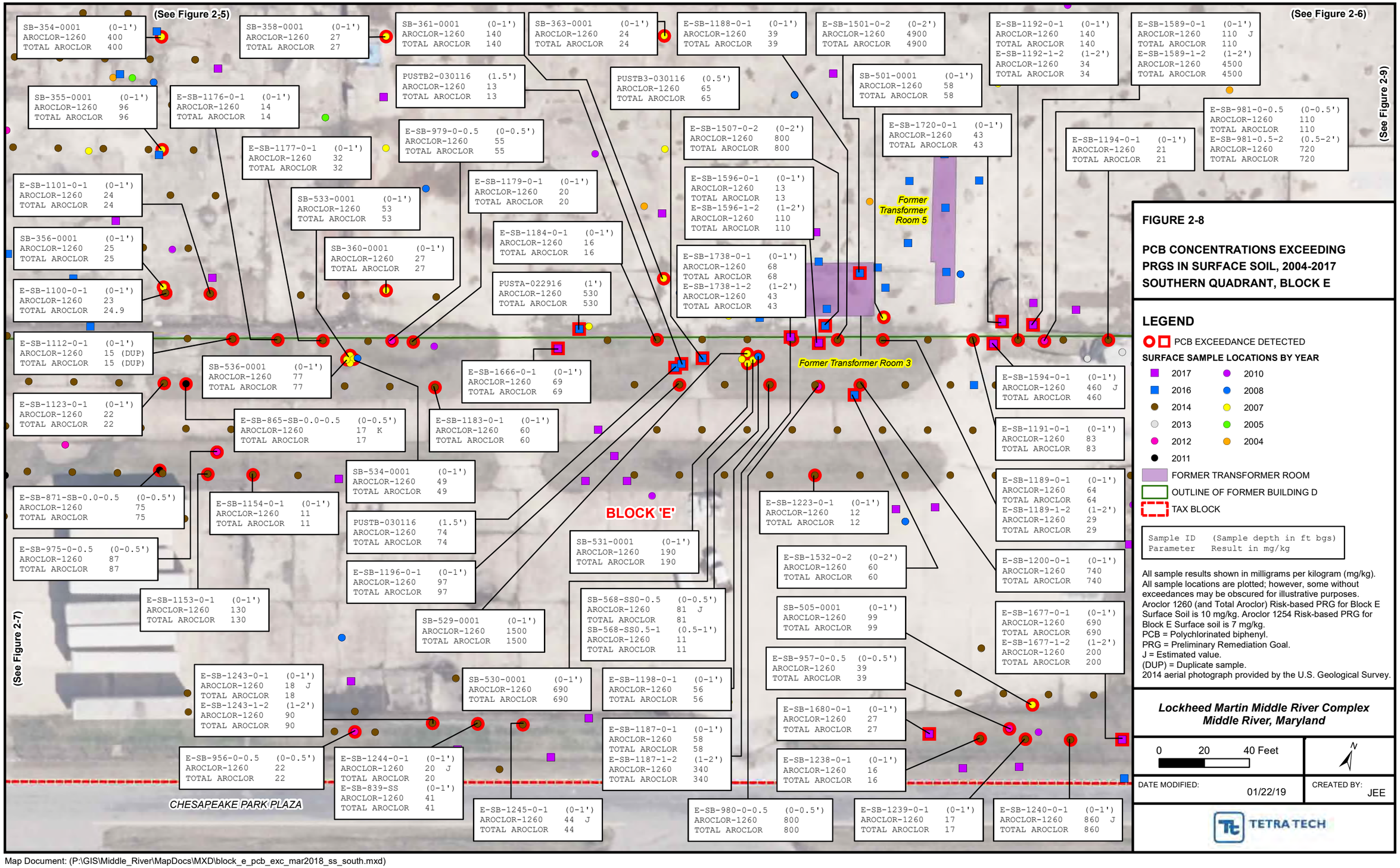


FIGURE 2-8

PCB CONCENTRATIONS EXCEEDING PRGS IN SURFACE SOIL, 2004-2017 SOUTHERN QUADRANT, BLOCK E

LEGEND

- PCB EXCEEDANCE DETECTED

SURFACE SAMPLE LOCATIONS BY YEAR

2017	2010
2016	2008
2014	2007
2013	2005
2012	2004
2011	

- FORMER TRANSFORMER ROOM
- OUTLINE OF FORMER BUILDING D
- TAX BLOCK

Sample ID (Sample depth in ft bgs)
Parameter Result in mg/kg

All sample results shown in milligrams per kilogram (mg/kg).
All sample locations are plotted; however, some without exceedances may be obscured for illustrative purposes.
Aroclor 1260 (and Total Aroclor) Risk-based PRG for Block E Surface Soil is 10 mg/kg. Aroclor 1254 Risk-based PRG for Block E Surface soil is 7 mg/kg.
PCB = Polychlorinated biphenyl.
PRG = Preliminary Remediation Goal.
J = Estimated value.
(DUP) = Duplicate sample.
2014 aerial photograph provided by the U.S. Geological Survey.

Lockheed Martin Middle River Complex
Middle River, Maryland

0 20 40 Feet

N

DATE MODIFIED: 01/22/19

CREATED BY: JEE

TETRA TECH

Map Document: (P:\GIS\Middle_River\MapDocs\MXD\block_e_pcb_exc_mar2018_ss_south.mxd)
01/22/19 -- JEE

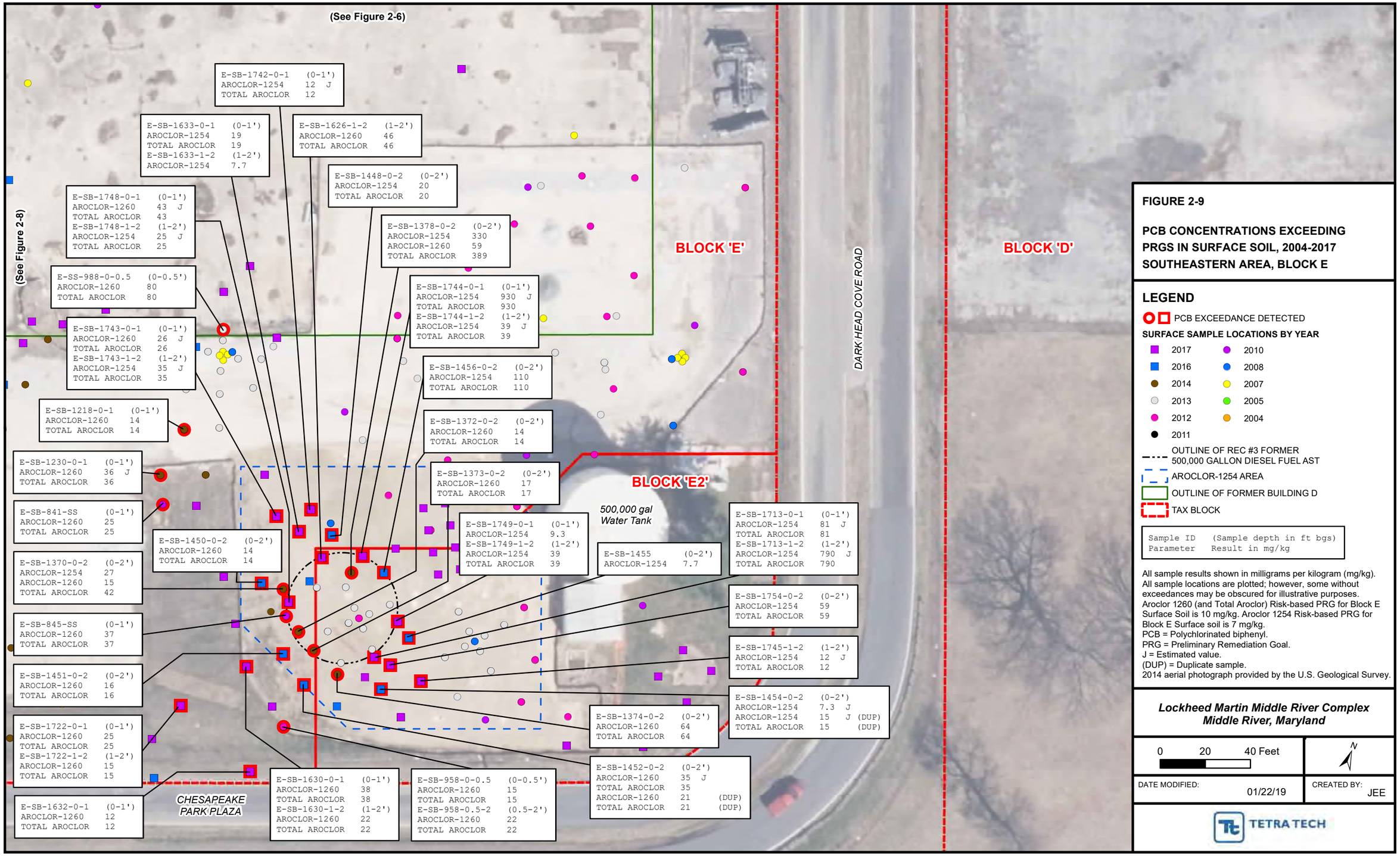


FIGURE 2-9

PCB CONCENTRATIONS EXCEEDING PRGS IN SURFACE SOIL, 2004-2017 SOUTHEASTERN AREA, BLOCK E

LEGEND

- PCB EXCEEDANCE DETECTED

SURFACE SAMPLE LOCATIONS BY YEAR

2017	2010
2016	2008
2014	2007
2013	2005
2012	2004
2011	

- OUTLINE OF REC #3 FORMER 500,000 GALLON DIESEL FUEL AST
- AROCLOR-1254 AREA
- OUTLINE OF FORMER BUILDING D
- TAX BLOCK

```
Sample ID     (Sample depth in ft bgs)
Parameter     Result in mg/kg
```

All sample results shown in milligrams per kilogram (mg/kg).
All sample locations are plotted; however, some without exceedances may be obscured for illustrative purposes.
Aroclor 1260 (and Total Aroclor) Risk-based PRG for Block E Surface Soil is 10 mg/kg. Aroclor 1254 Risk-based PRG for Block E Surface soil is 7 mg/kg.
PCB = Polychlorinated biphenyl.
PRG = Preliminary Remediation Goal.
J = Estimated value.
(DUP) = Duplicate sample.
2014 aerial photograph provided by the U.S. Geological Survey.

Lockheed Martin Middle River Complex
Middle River, Maryland

0 20 40 Feet

N

DATE MODIFIED: 01/22/19

CREATED BY: JEE

TETRA TECH

Map Document: (P:\GIS\Middle_River\MapDocs\MXD\block_e_pcb_exc_mar2018_ss_se.mxd)
01/22/19 -- JEE

J = Estimated result.
(DUP) = Duplicate sample.
0.5-1.0' = Depth range in feet below ground surface,
All results in micrograms per kilogram (µg/kg).
Results compared to TSCA unrestricted use / residential limit of 1000 µg/kg.

BLOCK 'E'

CPP-SB-1854
0.5-1.0' AROCLOR-1260 2800

CPP-SB-1866
CPP-SB-1856
CPP-SB-1855
CPP-SB-1865
CPP-SB-1853
CPP-SB-1852
CPP-SB-1851

CPP-SB-1839
0-0.5' AROCLOR-1260 2900 J

CPP-SB-1840
0-0.5' AROCLOR-1260 3200 J

CPP-SB-1836
0-0.5' AROCLOR-1260 6900

CPP-SB-1838
0-0.5' AROCLOR-1260 2100 J

CPP-SB-1833
0-0.5' AROCLOR-1260 5900

CPP-SB-1834
0-0.5' AROCLOR-1260 9800

CPP-SB-1835
0-0.5' AROCLOR-1260 7100

CPP-SB-1843
0-0.5' AROCLOR-1260 12000

CPP-SB-1842
0-0.5' AROCLOR-1260 4500

CPP-SB-1844
0-0.5' AROCLOR-1260 9000

CPP-SB-1848
CPP-SB-1849
CPP-SB-1850
CPP-SB-1864
CPP-SB-1845
CPP-SB-1846
CPP-SB-1847
CPP-SB-1863

CPP-SB-1862
0-0.5' AROCLOR-1260 1100

CPP-SB-1837

CPP-SB-1841
0-0.5' AROCLOR-1260 2600 J

CPP-SB-1859

CPP-SB-1860
0-0.5' AROCLOR-1260 4700

CPP-SB-1861
0-0.5' AROCLOR-1260 2500

CPP-SB-1830
0-0.5' AROCLOR-1260 3800

Locaion

CPP-SB-1831
0-0.5' AROCLOR-1260 3000 J / 2900 (DUP)

CPP-SB-1832
0-0.5' AROCLOR-1260 1300 J

CPP-SB-1827
0-0.5' AROCLOR-1260 5800 J

CPP-SB-1828
0.5-1.0' AROCLOR-1260 2200 J

CPP-SB-1829
0.5-1.0' AROCLOR-1260 2900 J

CHESAPEAKE PARK PLAZA

CPP-SB-1858
0-0.5' AROCLOR-1260 1300

CPP-SB-1857
0-0.5' AROCLOR-1260 1100

CPP-SB-1824
CPP-SB-1826

CPP-SB-1821
0-0.5' AROCLOR-1260 3000

CPP-SB-1822
CPP-SB-1823

CPP-SB-1825
0-0.5' AROCLOR-1260 1800 J

CPP-SB-1818
CPP-SB-1820

CPP-SB-1819
0-0.5' AROCLOR-1260 2500 J

BLOCK 'F'

FIGURE 2-10

AUGUST 2018 PCB SAMPLE EXCEEDANCES CHESAPEAKE PARK PLAZA

LEGEND

SAMPLE LOCATION

2017 aerial photograph provided by the State of Maryland.

Lockheed Martin Middle River Complex
Middle River, Maryland

0 40 80 Feet

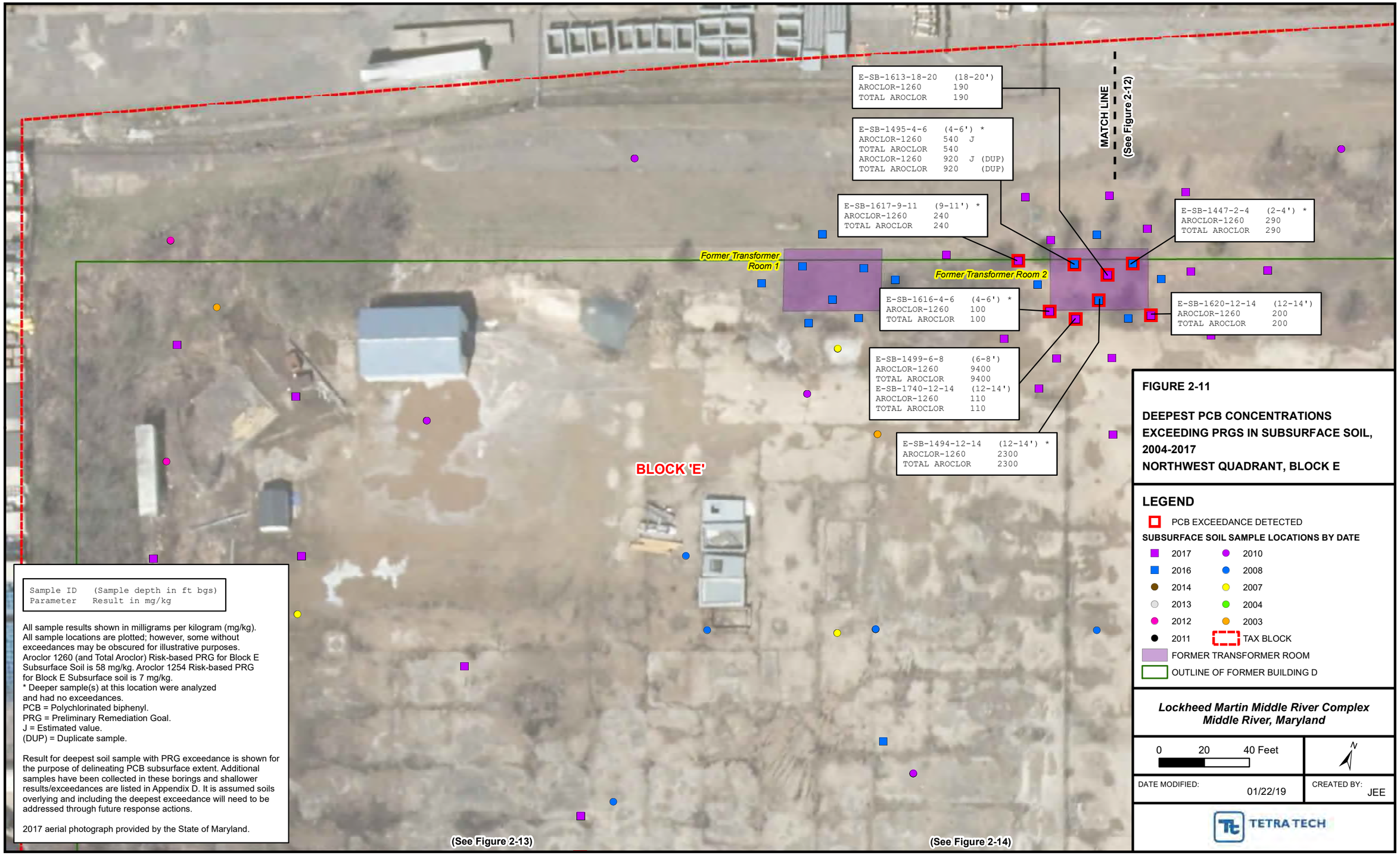
N

DATE MODIFIED: 01/22/19

CREATED BY: JEE

TETRA TECH

Map Document: (P:\GIS\Middle_River\MapDocs\MXD\block_e_park_plaza_exc_aug2018_1260.mxd)
01/22/19 -- JEE



All sample results shown in milligrams per kilogram (mg/kg).
All sample locations are plotted; however, some without exceedances may be obscured for illustrative purposes.
Aroclor 1260 (and Total Aroclor) Risk-based PRG for Block E Subsurface Soil is 58 mg/kg. Aroclor 1254 Risk-based PRG for Block E Subsurface soil is 7 mg/kg.
* Deeper sample(s) at this location were analyzed and had no exceedances.
PCB = Polychlorinated biphenyl.
PRG = Preliminary Remediation Goal.
J = Estimated value.
(DUP) = Duplicate sample.

Result for deepest soil sample with PRG exceedance is shown for the purpose of delineating PCB subsurface extent. Additional samples have been collected in these borings and shallower results/exceedances are listed in Appendix D. It is assumed soils overlying and including the deepest exceedance will need to be addressed through future response actions.

2017 aerial photograph provided by the State of Maryland.

FIGURE 2-11

DEEPEST PCB CONCENTRATIONS EXCEEDING PRGS IN SUBSURFACE SOIL, 2004-2017
NORTHWEST QUADRANT, BLOCK E

LEGEND

- PCB EXCEEDANCE DETECTED

SUBSURFACE SOIL SAMPLE LOCATIONS BY DATE

- 2017
- 2016
- 2014
- 2013
- 2012
- 2011
- 2010
- 2008
- 2007
- 2004
- 2003
- TAX BLOCK
- FORMER TRANSFORMER ROOM
- OUTLINE OF FORMER BUILDING D

Lockheed Martin Middle River Complex
Middle River, Maryland

0 20 40 Feet

N

DATE MODIFIED: 01/22/19

CREATED BY: JEE

TETRA TECH

Map Document: (P:\GIS\Middle_River\MapDocs\MXD\block_e_pcb_exc_mar2018_sub_nw.mxd)
01/22/19 -- JEE

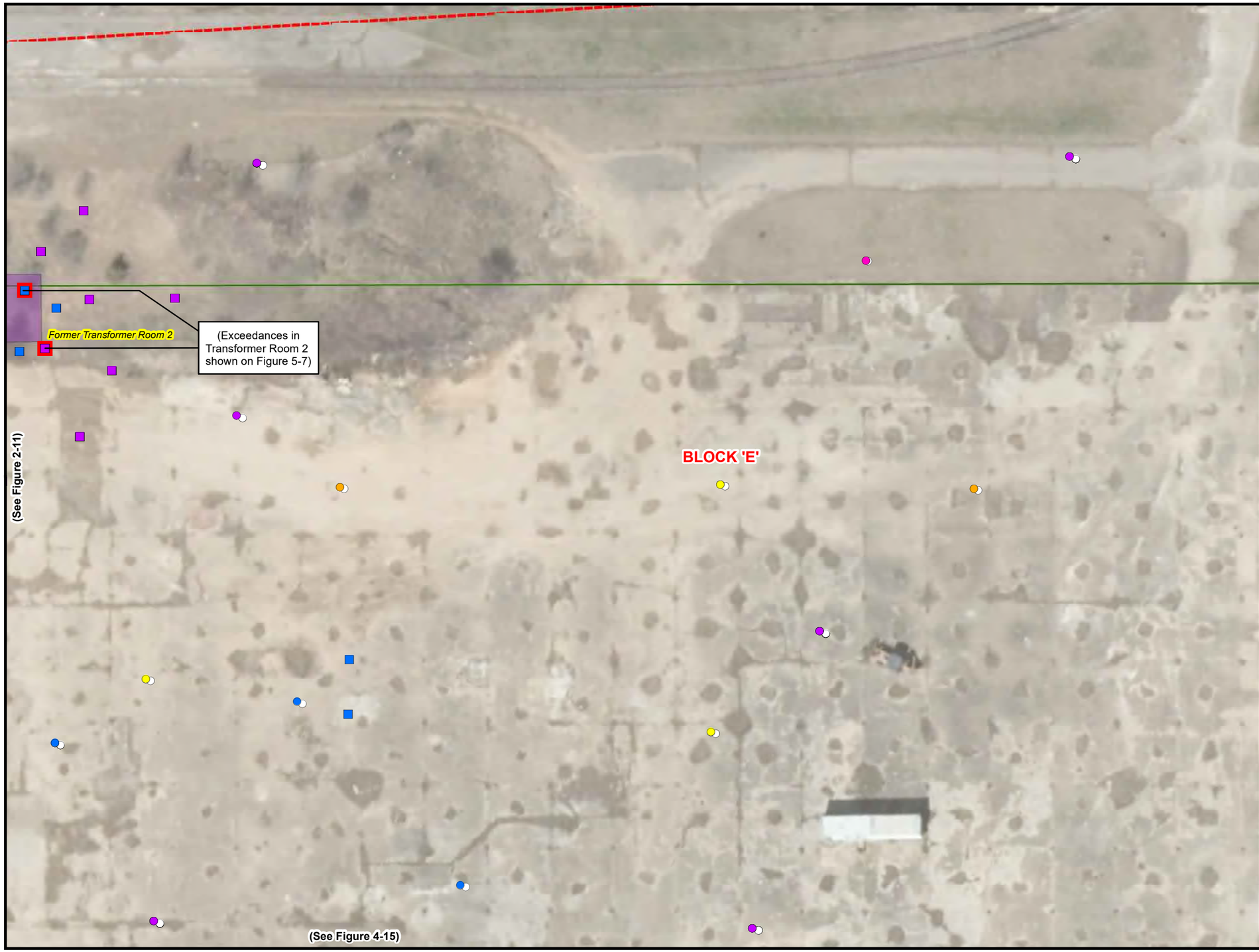


FIGURE 2-12

DEEPEST PCB CONCENTRATIONS EXCEEDING PRGS IN SUBSURFACE SOIL, 2004-2017
NORTHEAST QUADRANT, BLOCK E

LEGEND

- PCB EXCEEDANCE DETECTED

SUBSURFACE SOIL SAMPLE LOCATIONS BY DATE

2017	2010
2016	2008
2014	2007
2013	2004
2012	2003
2011	

- FORMER TRANSFORMER ROOM
- OUTLINE OF FORMER BUILDING D
- TAX BLOCK

```
Sample ID    (Sample depth in ft bgs)
Parameter    Result in mg/kg
```

All sample locations are plotted; however, some without exceedances may be obscured for illustrative purposes.
Aroclor 1260 (and Total Aroclor) Risk-based PRG for Block E Subsurface Soil is 58 mg/kg. Aroclor 1254 Risk-based PRG for Block E Subsurface soil is 7 mg/kg.
PRG = Preliminary Remediation Goal.
2017 aerial photograph provided by the State of Maryland.

Lockheed Martin Middle River Complex
Middle River, Maryland

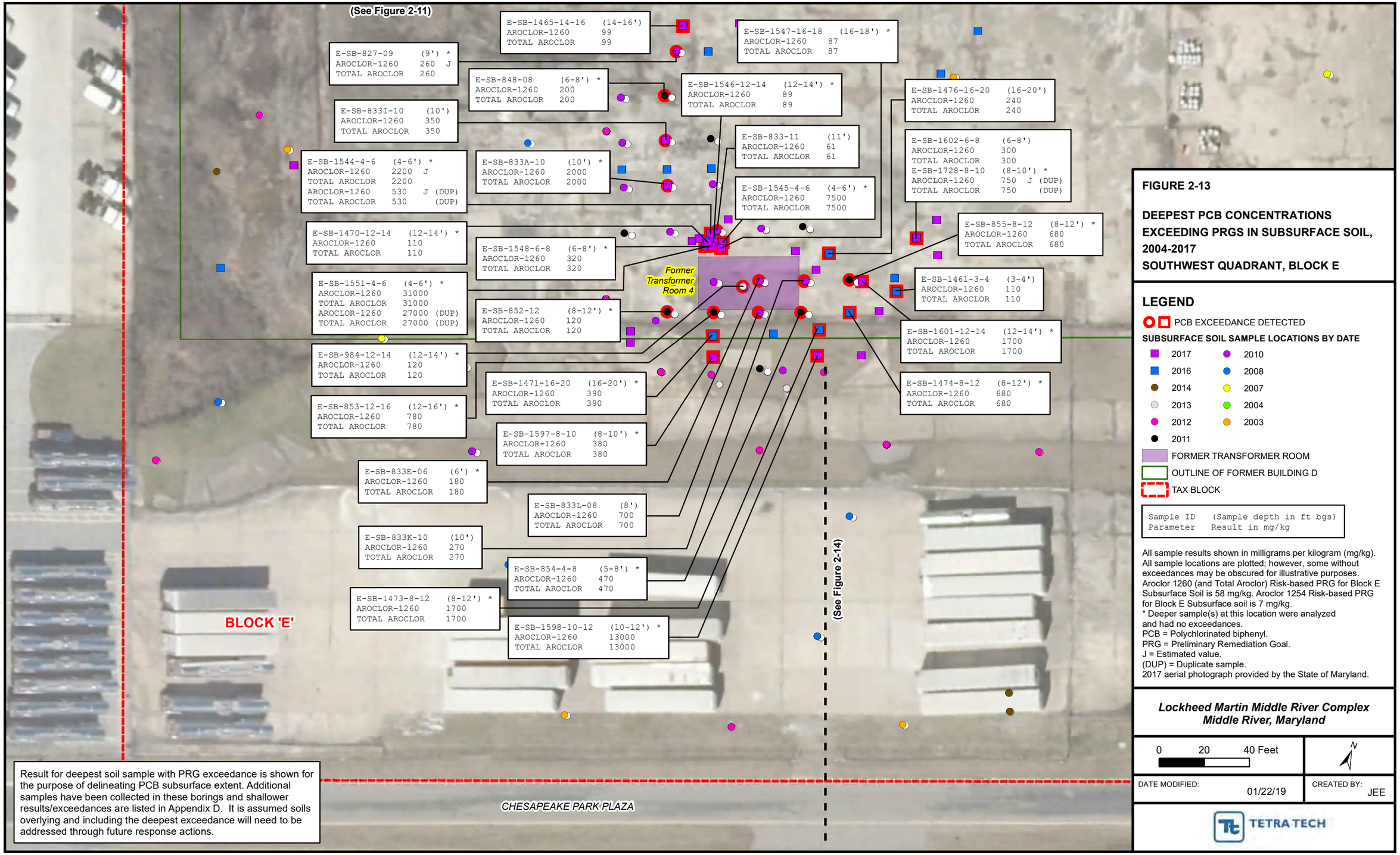
0 20 40 Feet

DATE MODIFIED: 01/22/19

CREATED BY: JEE

TETRA TECH

Map Document: (P:\GIS\Middle_River\MapDocs\MXD\block_e_pcb_exc_mar2018_sub_ne.mxd)
01/22/19 -- JEE



Result for deepest soil sample with PRG exceedance is shown for the purpose of delineating PCB subsurface extent. Additional samples have been collected in these borings and shallower results/exceedances are listed in Appendix D. It is assumed soils overlying and including the deepest exceedance will need to be addressed through future response actions.

FIGURE 2-13

DEEPEST PCB CONCENTRATIONS EXCEEDING PRGS IN SUBSURFACE SOIL, 2004-2017
SOUTHWEST QUADRANT, BLOCK E

LEGEND

PCB EXCEEDANCE DETECTED

SUBSURFACE SOIL SAMPLE LOCATIONS BY DATE

- 2017
- 2016
- 2014
- 2013
- 2012
- 2011
- 2010
- 2008
- 2007
- 2004
- 2003

FORMER TRANSFORMER ROOM

OUTLINE OF FORMER BUILDING D

TAX BLOCK

```
Sample ID    (Sample depth in ft bgs)
Parameter    Result in mg/kg
```

All sample results shown in milligrams per kilogram (mg/kg).
All sample locations are plotted; however, some without exceedances may be obscured for illustrative purposes.
Aroclor 1260 (and Total Aroclor) Risk-based PRG for Block E Subsurface Soil is 58 mg/kg. Aroclor 1254 Risk-based PRG for Block E Subsurface soil is 7 mg/kg.
* Deeper sample(s) at this location were analyzed and had no exceedances.
PCB = Polychlorinated biphenyl.
PRG = Preliminary Remediation Goal.
J = Estimated value.
(DUP) = Duplicate sample.
2017 aerial photograph provided by the State of Maryland.

Lockheed Martin Middle River Complex
Middle River, Maryland

0 20 40 Feet

DATE MODIFIED: 01/22/19

CREATED BY: JEE

TETRA TECH

Map Document: (P:\GIS\Middle_River\MapDocs\MXD\block_e_pcb_exc_mar2018_sub_sw.mxd)
01/22/19 -- JEE

(See Figure 2-11)

(See Figure 2-12)

(See Figure 2-15)

(See Figure 2-13)

E-SB-1592-6-8 (6-8') *
AROCLOR-1260 370
TOTAL AROCLOR 370

E-SB-1531-14-16 (14-16')
AROCLOR-1260 850
TOTAL AROCLOR 850

E-SB-1734-10-12 (10-12') *
AROCLOR-1260 670
TOTAL AROCLOR 670

E-SB-1584-8-10 (8-10') *
AROCLOR-1260 1300
TOTAL AROCLOR 1300

E-SB-1505-6-8 (6-8')
AROCLOR-1260 6500
TOTAL AROCLOR 6500
E-SB-1737-12-14 (12-14') *
AROCLOR-1260 130
TOTAL AROCLOR 130

E-SB-1503-6-8 (6-8')
AROCLOR-1260 78
TOTAL AROCLOR 78

E-SB-1585-2-4 (2-4')
AROCLOR-1260 130
TOTAL AROCLOR 130

E-SB-1590-16-18 (16-18') *
AROCLOR-1260 190
TOTAL AROCLOR 190

E-SB-1502-6-8 (6-8') *
AROCLOR-1260 2700
TOTAL AROCLOR 2700

E-SB-1736-16-18 (16-18') *
AROCLOR-1260 150
TOTAL AROCLOR 150

(Exceedances in Transformer Room 2 shown on Figure 4-11)

SB-502-0810 (8-10')
AROCLOR-1260 65
TOTAL AROCLOR 65
E-SB-1462 (10-12') *
AROCLOR-1260 130
TOTAL AROCLOR 130

Former Transformer Room 3

Former Transformer Room 5

E-SB-1464-8-10 (8-10') *
AROCLOR-1260 150
TOTAL AROCLOR 150

E-SB-1589-2-3 (2-3')
AROCLOR-1260 620 J
TOTAL AROCLOR 620

E-SB-1738-14-16 (14-16') *
AROCLOR-1260 970
TOTAL AROCLOR 970

E-SB-1586-8-10 (8-10') *
AROCLOR-1260 410
TOTAL AROCLOR 410

E-SB-1507-4-6 (4-6') *
AROCLOR-1260 1300
TOTAL AROCLOR 1300

E-SB-1463-10-12 (10-12') *
AROCLOR-1260 740
TOTAL AROCLOR 740
AROCLOR-1260 540 (DUP)
TOTAL AROCLOR 540 (DUP)

E-SB-1588-6-8 (6-8') *
AROCLOR-1260 2700
TOTAL AROCLOR 2700

E-SB-1501-6-8 (6-8')
AROCLOR-1260 450
TOTAL AROCLOR 450

BLOCK 'E'

CHESAPEAKE PARK PLAZA

Result for deepest soil sample with PRG exceedance is shown for the purpose of delineating PCB subsurface extent. Additional samples have been collected in these borings and shallower results/exceedances are listed in Appendix D. It is assumed soils overlying and including the deepest exceedance will need to be addressed through future response actions.

FIGURE 2-14

DEEPEST PCB CONCENTRATIONS EXCEEDING PRGS IN SUBSURFACE SOIL, 2004-2017
SOUTHERN QUADRANT, BLOCK E

LEGEND

PCB EXCEEDANCE DETECTED

SUBSURFACE SOIL SAMPLE LOCATIONS BY DATE

- 2017
- 2016
- 2014
- 2013
- 2012
- 2011
- 2010
- 2008
- 2007
- 2004
- 2003

FORMER TRANSFORMER ROOM

OUTLINE OF FORMER BUILDING D

TAX BLOCK

Sample ID (Sample depth in ft bgs)
Parameter Result in mg/kg

All sample results shown in milligrams per kilogram (mg/kg).
All sample locations are plotted; however, some without exceedances may be obscured for illustrative purposes.
Aroclor 1260 (and Total Aroclor) Risk-based PRG for Block E Subsurface Soil is 58 mg/kg. Aroclor 1254 Risk-based PRG for Block E Subsurface soil is 7 mg/kg.
* Deeper sample(s) at this location were analyzed and had no exceedances.
PCB = Polychlorinated biphenyl.
PRG = Preliminary Remediation Goal.
J = Estimated value.
(DUP) = Duplicate sample.
2017 aerial photograph provided by the State of Maryland.

Lockheed Martin Middle River Complex
Middle River, Maryland

0 20 40 Feet

DATE MODIFIED: 01/22/19

CREATED BY: JEE

TETRA TECH

Map Document: (P:\GIS\Middle_River\MapDocs\MXD\block_e_pcb_exc_mar2018_sub_south.mxd)
01/22/19 -- JEE

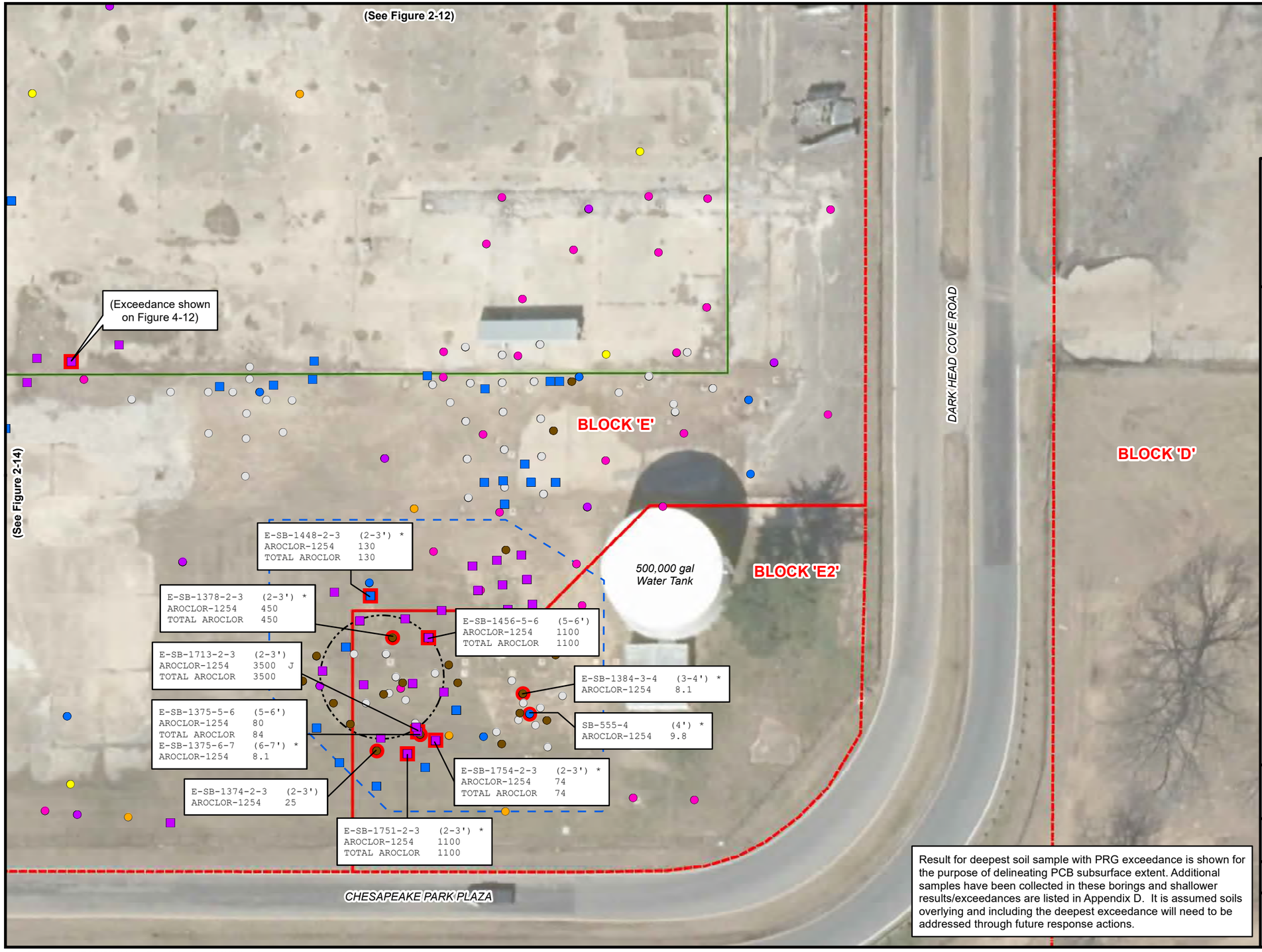


FIGURE 2-15

DEEPEST PCB CONCENTRATIONS EXCEEDING PRGS IN SUBSURFACE SOIL, 2004-2017
SOUTHEASTERN AREA, BLOCK E

LEGEND

- PCB EXCEEDANCE DETECTED

SUBSURFACE SOIL SAMPLE LOCATIONS BY DATE

- 2017
- 2016
- 2014
- 2013
- 2012
- 2011
- 2010
- 2008
- 2007
- 2004
- 2003

- OUTLINE OF REC #3 FORMER 500,000 GALLON DIESEL FUEL AST
- AROCLOR-1254 AREA
- OUTLINE OF FORMER BUILDING D
- TAX BLOCK

```
Sample ID    (Sample depth in ft bgs)
Parameter    Result in mg/kg
```

All sample results shown in milligrams per kilogram (mg/kg).
All sample locations are plotted; however, some without exceedances may be obscured for illustrative purposes.
Aroclor 1260 (and Total Aroclor) Risk-based PRG for Block E Subsurface Soil is 58 mg/kg. Aroclor 1254 Risk-based PRG for Block E Subsurface soil is 7 mg/kg.
* Deeper sample(s) at this location were analyzed and had no exceedances.
PCB = Polychlorinated biphenyl.
PRG = Preliminary Remediation Goal.
J = Estimated value.
(DUP) = Duplicate sample.
2017 aerial photograph provided by the State of Maryland.

Result for deepest soil sample with PRG exceedance is shown for the purpose of delineating PCB subsurface extent. Additional samples have been collected in these borings and shallower results/exceedances are listed in Appendix D. It is assumed soils overlying and including the deepest exceedance will need to be addressed through future response actions.

Lockheed Martin Middle River Complex
Middle River, Maryland

0 20 40 Feet

DATE MODIFIED: 01/22/19

CREATED BY: JEE

TETRA TECH

Map Document: (P:\GIS\Middle_River\MapDocs\MXD\block_e_pcb_exc_mar2018_sub_se.mxd)
01/22/19 -- KM

FIGURE 2-16

BLOCK E CONCRETE SAMPLE RESULTS

LEGEND

CONCRETE SAMPLES WITH PCB RESULTS

Sample Location — E-SB-938 1.2 — Total PCB Concentration, in mg/kg

- CONCENTRATION GREATER THAN 50 MG/KG
- CONCENTRATION BETWEEN 0.9 AND 50 MG/KG
- CONCENTRATION BELOW 0.9 MG/KG
- OUTLINE OF FORMER BUILDING D
- TAX BLOCK

2017 aerial photograph provided by the State of Maryland.

Lockheed Martin Middle River Complex
Middle River, Maryland

0 50 100 Feet

N

DATE MODIFIED: 01/24/19

CREATED BY: JEE

TETRA TECH

Map Document: (P:\GIS\Middle_River\MapDocs\MXD\block_e_concrete_tags_jan2019_alt.mxd)
01/24/19 -- JEE

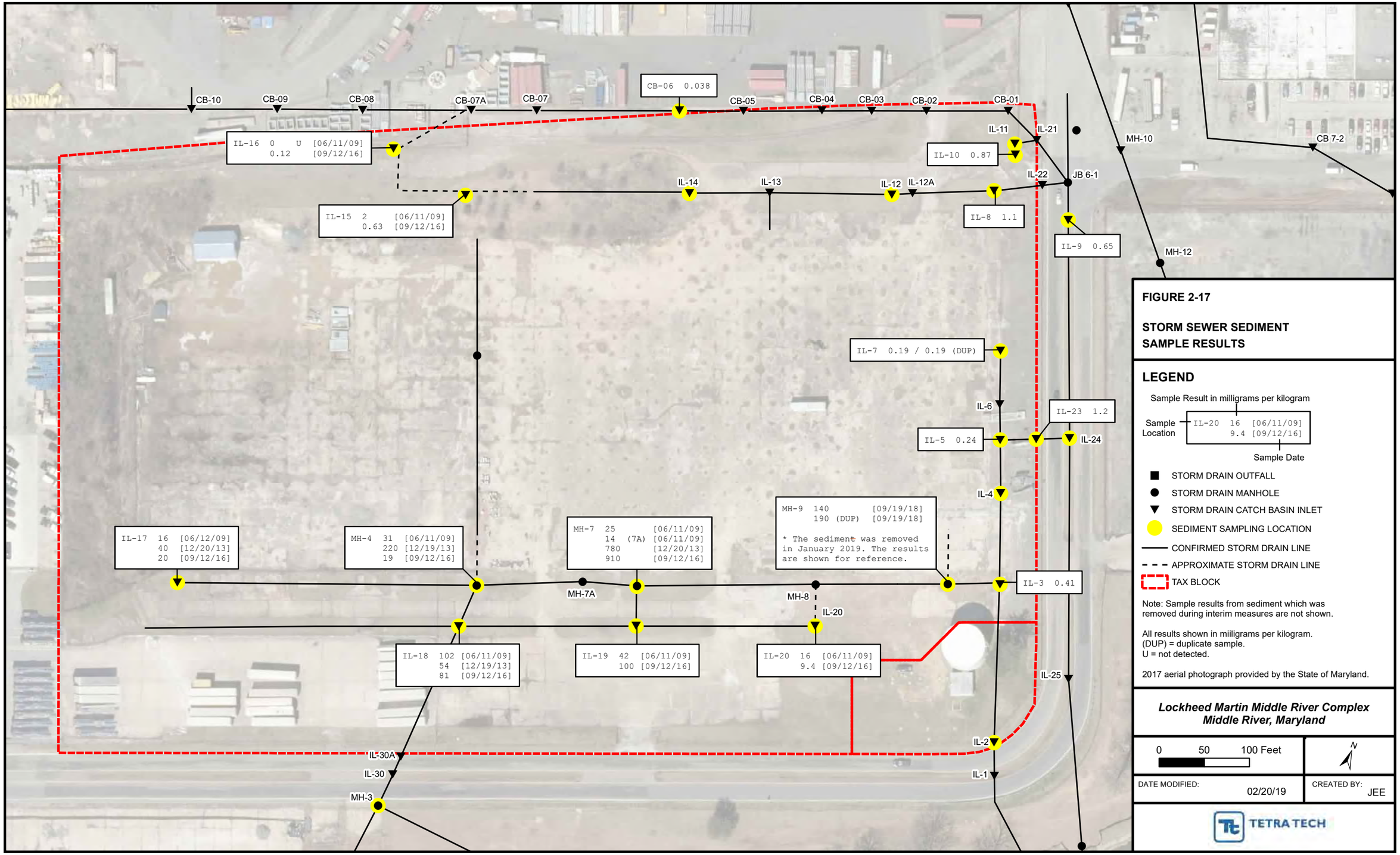


FIGURE 2-17

STORM SEWER SEDIMENT SAMPLE RESULTS

LEGEND

Sample Result in milligrams per kilogram

Sample Location — IL-20 16 [06/11/09] / 9.4 [09/12/16] — Sample Date

- STORM DRAIN OUTFALL
- STORM DRAIN MANHOLE
- STORM DRAIN CATCH BASIN INLET
- SEDIMENT SAMPLING LOCATION
- CONFIRMED STORM DRAIN LINE
- APPROXIMATE STORM DRAIN LINE
- TAX BLOCK

Note: Sample results from sediment which was removed during interim measures are not shown.

All results shown in miiligrams per kilogram.
(DUP) = duplicate sample.
U = not detected.

2017 aerial photograph provided by the State of Maryland.

Lockheed Martin Middle River Complex
Middle River, Maryland

0 50 100 Feet

N

DATE MODIFIED: 02/20/19

CREATED BY: JEE

TETRA TECH

Map Document: (P:\GIS\Middle_River\MapDocs\MXD\block_e_storm_sewer_sed_tags_jan2019.mxd)
02/20/19 -- JEE

Figure 2-18
Placeholding figure. To be replaced by design drawing(s)

Remove Soil and Stockpile On-Site For Use as Backfill Except as Noted

BaP Eq-Impacted Soil Will Be Disposed of Off-Site

Approximate Location of Tunnel

BLOCK 'E'

Remove Building Slab and All Concrete and Pavement

Remove Storm Sewer

BLOCK 'E2'

Install Temporary Retaining Wall

Remove Product Pipeline Between Tank and Tunnel

Portion of Product Pipeline Already Removed

Numbered Notes:
1) After removal of sewer and soil below sewer, use surface soil adjacent to trench to begin backfilling, then top off excavation with clean backfill (at least 6 inches).
2) Replace bottom of channel wth at least 6 inches of clean soil.
3) Excavate additional soil as needed and replace with clean backfill so that there is at least 6 inches of clean soil at the bottom of the channel.
4) Excavate additional soil as needed and replace with clean backfill so that there is at least 6 inches of clean soil at the bottom of the channel (lower portions of proposed channels).
5) Replace soil in median with at least 1 foot of clean soil.

LEGEND

Proposed Replacement Storm Sewer Lines - See Appendix J

- Channel
- Pipe
- Pipe / Channel
- Storm Sewer Manhole to be Removed
- Storm Sewer Catch Basin to be Removed
- Confirmed Storm Sewer Line to be Removed
- Approximate Storm Sewer Line to be Removed
- Storm Sewer Manhole to be Removed and Replaced
- Storm Sewer Catch Basin to be Removed and Replaced
- Confirmed Storm Sewer Line to be Removed and Replaced
- Storm Sewer Manhole to Remain
- Storm Sewer Catch Basin to Remain
- Storm Sewer Outfall to Remain
- Confirmed Storm Sewer Line to Remain
- Approximate Storm Sewer Line to Remain
- Former Product Line To Be Removed
- Concrete and Pavement To Be Removed
- Soil Excavation to a Depth of 2 Feet
- Soil Excavation to a Depth of 3 Feet
- Outline of Former Building D
- Approximate Extent of Existing Soil Piles
- Approximate Limit of Groundwater Response Action Excavation
- Tax Block
- Surface Soil Replacement to Meet RAO No. 2, per Numbered Notes
- 2 See Numbered Notes

2017 aerial photograph provided by the State of Maryland.

Lockheed Martin Middle River Complex
Middle River, Maryland

0 60 120 Feet

N

DATE MODIFIED: 01/08/19

CREATED BY: JEE

TETRA TECH

Map Document: (P:\GIS\Middle_River\MapDocs\MXD\block_e_prg_remediation_common_elements_nov2018.mxd)
01/08/19 -- JEE

PLACEHOLDER

FIGURE 2-19

Final Grading and Stormwater Conveyance, from design documents

May be more than one sheet.

PLACEHOLDER

FIGURE 2-20

Truck Route, from design documents

TABLES

Table 1-1

Permits, Applications, and Notifications

Regulation/statute	Agency	Permit description
Federal regulations/statutes		
None		
State regulations/statutes		
Section 402 Clean Water Act (33 U.S.C. 1342) and 40 CFR 122.26; Maryland "Environment Article," Title 9, Subtitle 3: COMAR 26.08.04	Notice of Intent for Coverage under the Construction General Permit for Stormwater	A Notice of Intent to apply for the General Permit must be submitted prior to applying for the General Permit.
Section 402 Clean Water Act (33 U.S.C. 1342) and 40 CFR 122.26; Maryland "Environment Article," Title 9, Subtitle 3: COMAR 26.08.04	MDE Construction Stormwater Division	Section 402 Clean Water Act, "Construction-General Permit for Construction Stormwater:" Projects that disturb one acre or more of ground must obtain a "Construction General" permit governing stormwater runoff during project construction. Approval of this permit is contingent upon approval of the site erosion and sediment-control plan by the Soil Conservation District.
Section 402 Clean Water Act "National Pollutant Discharge Elimination System (NPDES)," 40 CFR Part 122 through 125, and 131, "Environment Article," Title 9, Subtitle 3; COMAR 26.08.01–26.08.04, and for the pretreatment permit, COMAR 26.08.08	MDE NPDES program	Section 402 Clean Water Act, NPDES permit: Direct discharges to waters of the United States, including those from outfalls of treated wastewater, must obtain a permit and authorization. Surface water discharges are regulated through combined state and federal permits under NPDES. Alternatively, wastewater can be discharged to a publicly-owned treatment works (POTW) according to the requirements of the pretreatment regulations.
Section 106, National Historical Preservation Act (Public Law 89 665; 16 U.S.C. 470, et seq.)	Maryland Historical Trust	Section 106 of the National Historical Preservation Act historic/cultural resource review: Possible impacts to any district, site, building, structure, or object that is included in or eligible for inclusion in the National Register.
Maryland Nongame and Endangered Species Conservation Act (*Annotated Code of Maryland*, 10-2A-01; also, COMAR 08.03.08)	MDNR	Nongame and Endangered Species Conservation Act-listed species and critical/essential habitat review. Impacts to state listed species and habitat are unlikely.

Table 1-1

Permits, Applications, and Notifications
Page 2 of 3

Regulation/statute	Agency	Permit description
Section 7-222 of the "Environment Article," and COMAR 26.14	MDE Controlled Hazardous Substance (CHS) Enforcement Division	Oversees assessment and cleanup of hazardous waste sites.
COMAR 26.04.04 Well Construction – Well Construction Permit	MDE	A well construction permit is required before installing any well, including monitoring wells.
COMAR 26.04.04 Well Construction – Well Abandonment Sealing Report	MDE	Abandoned wells must be abandoned (sealed) in accordance with the regulations and reported using the Well Abandonment Sealing Report.
COMAR 11.03.06 – Airport Zoning Permit	Maryland Aviation Administration	The purpose of the Airport Zoning Permit is to identify land use, obstructions, and wildlife attractants that are incompatible with airport operations.
Local regulations/statutes		
Critical Area Commission, Title 8, Subtitle 18 of the "Natural Resources Article," *Annotated Code of Maryland*	State Critical Area Commission	Critical area plan/permit approval: Possible impacts to critical area resources for work in Block F.
Section 1.04 of the *Code of Baltimore County Regulations* (COBAR), "Baltimore County Grading Permit"	Baltimore County Department of Environmental Protection and Sustainability (DEPS) Stormwater Engineering and Baltimore County Soil Conservation District	Grading that disturbs more than 5,000 square feet or more than 100 cubic yards of fill material; includes review of erosion and sediment control plans.
Subtitle 1 of Environment Article 4 – Erosion and Sediment Control Plan	Baltimore County Soil Conservation District	Any activity that disturbs 5,000 square feet or involving more than 100 cubic yards of earth requires that an erosion and sediment control plan be submitted to and approved by the local soil conservation district.

Table 1-1

Permits, Applications, and Notifications

Regulation/statute	Agency	Permit description
Section 402 Clean Water Act (33 U.S.C. 1342) and 40 CFR 122.26; "Environment Article," Title 4, Subtitle 1 for erosion and sediment control and Subtitle 2 for stormwater management (COMAR 26.17.01 and 26.17.02); COBAR Article 33 Title 4, "Baltimore County Stormwater Management"	Baltimore County DEPS—Stormwater Engineering Department	Stormwater management plan approval: County review of concept, development, and final stormwater management plans for the project site, or granting of a variance.
Utility Cut Permit	Baltimore County, Department of Public Works, Department of Highways	A Utility Cut Permit is required anytime one occupies, uses or engages in any activity in a public right-of-way including: excavation in paved or unpaved areas; installation of above or below ground facilities; activity that obstructs or impedes traffic.
Building Permit	Baltimore County, Department of Permits, Approvals, and Inspections	Building Permits are required for Retaining walls over 36 inches in height, engineered drawings are required for over 48 inches.
Article 20 Title 5 Section 114 of the *Baltimore County Code*, "Industrial Wastewater Discharges"	Baltimore County Public Works	Industrial wastewater discharge to publicly owned treatment works permit: Submission of permit application, including anticipated treatment measures and post-treatment contaminant concentrations; likely to involve a Category 1 permit for a major facility.

Table 2-1

Summary of Total Aroclor Concentrations in Surface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
E-CB-11A	E-CB-11A-0-2	07/20/2012	08/03/2012	0-2	0 U
E-CB-11B	E-CB-11B-0-2	07/19/2012	08/02/2012	0-2	0 U
E-CB-13	E-CB-13-0-2	07/20/2012	07/28/2012	0-2	0 U
E-CB-2	E-CB-2-0-2	07/19/2012	08/01/2012	0-2	0.07
E-SB-1023	E-SB-1023-02	10/03/2013	10/09/2013	2-2	0.057
E-SB-1024	E-SB-1024-02	10/03/2013	10/09/2013	2-2	1.5
E-SB-1025	E-SB-1025-02	10/03/2013	10/09/2013	2-2	0 U
E-SB-1031	E-SB-1031-02	10/02/2013	10/08/2013	2-2	0 U
E-SB-1032	E-SB-1032-02	10/02/2013	10/08/2013	2-2	0.17
E-SB-1033	E-SB-1033-02	10/02/2013	10/08/2013	2-2	0 U
E-SB-1040	E-SB-1040-02	10/03/2013	10/09/2013	2-2	0.082
E-SB-1043	E-SB-1043-02	10/03/2013	10/09/2013	2-2	0 U
E-SB-1044	E-SB-1044-0-1	07/15/2014	07/21/2014	0-1	0 U
E-SB-1044	E-SB-1044-1-2	07/15/2014	07/21/2014	1-2	0 U
E-SB-1045	E-SB-1045-0-1	07/15/2014	07/21/2014	0-1	0.084
E-SB-1045	E-SB-1045-1-2	07/15/2014	07/21/2014	1-2	0.0094
E-SB-1046	E-SB-1046-0-1	07/15/2014	07/21/2014	0-1	0.019
E-SB-1046	E-SB-1046-1-2	07/15/2014	07/21/2014	1-2	0.012
E-SB-1047	E-SB-1047-0-1	07/15/2014	07/21/2014	0-1	0.051
E-SB-1047	E-SB-1047-1-2	07/15/2014	07/21/2014	1-2	0 U
E-SB-1048	E-SB-1048-0-1	07/15/2014	07/21/2014	0-1	0.14
E-SB-1048	E-SB-1048-1-2	07/15/2014	07/21/2014	1-2	0.041
E-SB-1049	E-SB-1049-0-1	07/15/2014	07/21/2014	0-1	0.056
E-SB-1049	E-SB-1049-1-2	07/15/2014	07/21/2014	1-2	0 U
E-SB-1050	E-SB-1050-0-1	07/15/2014	07/21/2014	0-1	0.089
E-SB-1050	E-SB-1050-1-2	07/15/2014	07/21/2014	1-2	0.06
E-SB-1051	E-SB-1051-0-1	07/15/2014	07/21/2014	0-1	0.071
E-SB-1051	E-SB-1051-1-2	07/15/2014	07/26/2014	1-2	0.25
E-SB-1052	E-SB-1052-0-1	07/15/2014	07/26/2014	0-1	7.7
E-SB-1052	E-SB-1052-1-2	07/15/2014	07/26/2014	1-2	0.056
E-SB-1053	E-SB-1053-0-1	07/15/2014	07/26/2014	0-1	0.07
E-SB-1053	E-SB-1053-1-2	07/15/2014	07/26/2014	1-2	0 U
E-SB-1054	E-SB-1054-0-1	07/15/2014	07/26/2014	0-1	0 U
E-SB-1054	E-SB-1054-1-2	07/15/2014	07/26/2014	1-2	0 U
E-SB-1055	E-SB-1055-0-1	07/15/2014	07/26/2014	0-1	0 U
E-SB-1055	E-SB-1055-1-2	07/15/2014	07/26/2014	1-2	0.0096
E-SB-1056	E-SB-1056-0-1	07/15/2014	07/26/2014	0-1	0.006
E-SB-1056	E-SB-1056-1-2	07/15/2014	07/26/2014	1-2	0 U
E-SB-1057	E-SB-1057-0-1	07/15/2014	07/26/2014	0-1	0.018
E-SB-1057	E-SB-1057-1-2	07/15/2014	07/26/2014	1-2	0 U
E-SB-1058	E-SB-1058-0-1	07/15/2014	07/26/2014	0-1	0 U
E-SB-1058	E-SB-1058-1-2	07/15/2014	07/26/2014	1-2	0 U

Table 2-1

Summary of Total Aroclor Concentrations in Surface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
E-SB-1059	E-SB-1059-0-1	07/16/2014	07/24/2014	0-1	0 U
E-SB-1059	E-SB-1059-1-2	07/16/2014	07/24/2014	1-2	0 U
E-SB-1060	E-SB-1060-0-1	07/16/2014	07/24/2014	0-1	0 U
E-SB-1060	E-SB-1060-1-2	07/16/2014	07/24/2014	1-2	0 U
E-SB-1061	E-SB-1061-0-1	07/16/2014	07/24/2014	0-1	0.011
E-SB-1061	E-SB-1061-1-2	07/16/2014	07/26/2014	1-2	0 U
E-SB-1062	E-SB-1062-0-1	07/16/2014	07/26/2014	0-1	0.011
E-SB-1062	E-SB-1062-0-1-D	07/17/2014	07/29/2014	0-1	0 U
E-SB-1062	E-SB-1062-1-2	07/16/2014	07/26/2014	1-2	0 U
E-SB-1062	E-SB-1062-1-2-D	07/17/2014	07/29/2014	1-2	0 U
E-SB-1063	E-SB-1063-0-1	07/16/2014	07/28/2014	0-1	0.031
E-SB-1063	E-SB-1063-1-2	07/16/2014	07/28/2014	1-2	0.017
E-SB-1064	E-SB-1064-0-1	07/16/2014	07/26/2014	0-1	0.0066
E-SB-1064	E-SB-1064-1-2	07/16/2014	07/26/2014	1-2	0.015
E-SB-1065	E-SB-1065-0-1	07/16/2014	07/26/2014	0-1	4.8
E-SB-1065	E-SB-1065-1-2	07/16/2014	07/26/2014	1-2	0.73
E-SB-1066	E-SB-1066-0-1	07/16/2014	07/26/2014	0-1	0.14
E-SB-1068	E-SB-1068-0-1	07/16/2014	07/26/2014	0-1	0.014
E-SB-1068	E-SB-1068-1-2	07/16/2014	07/26/2014	1-2	0 U
E-SB-1069	E-SB-1069-0-1	07/16/2014	07/26/2014	0-1	0.0055
E-SB-1069	E-SB-1069-1-2	07/16/2014	07/26/2014	1-2	0 U
E-SB-1070	E-SB-1070-0-1	07/16/2014	07/28/2014	0-1	0.009
E-SB-1070	E-SB-1070-1-2	07/16/2014	07/28/2014	1-2	0 U
E-SB-1071	E-SB-1071-0-1	07/16/2014	07/28/2014	0-1	0.045
E-SB-1071	E-SB-1071-1-2	07/16/2014	07/28/2014	1-2	0 U
E-SB-1072	E-SB-1072-0-1	07/16/2014	07/28/2014	0-1	0 U
E-SB-1072	E-SB-1072-1-2	07/16/2014	07/28/2014	1-2	0 U
E-SB-1073	E-SB-1073-0-1	07/16/2014	07/28/2014	0-1	0.009
E-SB-1073	E-SB-1073-1-2	07/16/2014	07/28/2014	1-2	0 U
E-SB-1074	E-SB-1074-0-1	07/17/2014	07/30/2014	0-1	0.0058
E-SB-1074	E-SB-1074-1-2	07/17/2014	07/30/2014	1-2	0 U
E-SB-1075	E-SB-1075-0-1	07/17/2014	07/30/2014	0-1	0.011
E-SB-1075	E-SB-1075-1-2	07/17/2014	07/30/2014	1-2	0 U
E-SB-1076	E-SB-1076-0-1	07/17/2014	07/29/2014	0-1	0 U
E-SB-1076	E-SB-1076-1-2	07/17/2014	07/29/2014	1-2	0 U
E-SB-1077	E-SB-1077-0-1	07/17/2014	07/29/2014	0-1	0 U
E-SB-1077	E-SB-1077-1-2	07/17/2014	07/29/2014	1-2	0 U
E-SB-1078	E-SB-1078-0-1	07/17/2014	07/29/2014	0-1	0 U
E-SB-1078	E-SB-1078-1-2	07/17/2014	07/29/2014	1-2	0 U
E-SB-1079	E-SB-1079-0-1	07/17/2014	07/30/2014	0-1	0.0094
E-SB-1079	E-SB-1079-1-2	07/17/2014	07/29/2014	1-2	0 U
E-SB-1080	E-SB-1080-0-1	07/17/2014	07/30/2014	0-1	0.0064

Table 2-1

Summary of Total Aroclor Concentrations in Surface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
E-SB-1080	E-SB-1080-1-2	07/17/2014	07/30/2014	1-2	0 U
E-SB-1081	E-SB-1081-0-1	07/17/2014	07/30/2014	0-1	0.0057
E-SB-1081	E-SB-1081-1-2	07/17/2014	07/30/2014	1-2	0 U
E-SB-1082	E-SB-1082-0-1	07/18/2014	07/30/2014	0-1	0 U
E-SB-1082	E-SB-1082-1-2	07/18/2014	07/30/2014	1-2	0 U
E-SB-1083	E-SB-1083-0-1	07/18/2014	07/30/2014	0-1	0 U
E-SB-1083	E-SB-1083-1-2	07/18/2014	07/30/2014	1-2	0 U
E-SB-1084	E-SB-1084-0-1	07/18/2014	07/30/2014	0-1	0.026
E-SB-1084	E-SB-1084-1-2	07/18/2014	07/30/2014	1-2	0 U
E-SB-1085	E-SB-1085-0-1	07/18/2014	07/30/2014	0-1	0.027
E-SB-1085	E-SB-1085-1-2	07/18/2014	07/30/2014	1-2	0 U
E-SB-1086	E-SB-1086-0-1	07/18/2014	07/30/2014	0-1	90
E-SB-1086	E-SB-1086-1-2	07/18/2014	07/30/2014	1-2	0.07
E-SB-1086	E-SB-1086-1-2-D	07/18/2014	07/30/2014	1-2	0.1
E-SB-1088	E-SB-1088-0-1	07/18/2014	07/30/2014	0-1	0.16
E-SB-1088	E-SB-1088-0-1-D	07/18/2014	07/30/2014	0-1	0.35
E-SB-1088	E-SB-1088-1-2	07/18/2014	07/30/2014	1-2	0.0066
E-SB-1089	E-SB-1089-0-1	07/18/2014	07/30/2014	0-1	0.021
E-SB-1089	E-SB-1089-1-2	07/18/2014	07/29/2014	1-2	0.02
E-SB-1090	E-SB-1090-0-1	07/18/2014	07/29/2014	0-1	0.2
E-SB-1090	E-SB-1090-1-2	07/18/2014	07/29/2014	1-2	0.61
E-SB-1091	E-SB-1091-0-1	07/18/2014	07/29/2014	0-1	0.081
E-SB-1091	E-SB-1091-1-2	07/18/2014	07/29/2014	1-2	0.03
E-SB-1092	E-SB-1092-0-1	07/18/2014	07/29/2014	0-1	0.028
E-SB-1092	E-SB-1092-0-1-D	07/18/2014	07/30/2014	0-1	0.0509
E-SB-1092	E-SB-1092-1-2	07/18/2014	07/29/2014	1-2	0.016
E-SB-1094	E-SB-1094-0-1	07/18/2014	07/29/2014	0-1	1.4
E-SB-1094	E-SB-1094-1-2	07/18/2014	07/29/2014	1-2	1.2
E-SB-1094	E-SB-1094-1-2-D	07/18/2014	07/30/2014	1-2	0.78
E-SB-1095	E-SB-1095-0-1	07/18/2014	07/29/2014	0-1	0 U
E-SB-1095	E-SB-1095-1-2	07/18/2014	07/31/2014	1-2	0 U
E-SB-1096	E-SB-1096-0-1	07/18/2014	07/29/2014	0-1	0.01
E-SB-1096	E-SB-1096-1-2	07/18/2014	07/29/2014	1-2	0.04
E-SB-1097	E-SB-1097-0-1	07/18/2014	07/30/2014	0-1	0.038
E-SB-1097	E-SB-1097-1-2	07/18/2014	07/29/2014	1-2	0.011
E-SB-1098	E-SB-1098-0-1	07/18/2014	07/29/2014	0-1	37
E-SB-1098	E-SB-1098-1-2	07/18/2014	07/29/2014	1-2	550
E-SB-1099	E-SB-1099-0-1	07/18/2014	07/29/2014	0-1	25.87
E-SB-1099	E-SB-1099-1-2	07/18/2014	07/29/2014	1-2	14.8
E-SB-1100	E-SB-1100-0-1	07/18/2014	07/29/2014	0-1	24.9
E-SB-1100	E-SB-1100-1-2	07/18/2014	07/29/2014	1-2	0.8
E-SB-1101	E-SB-1101-0-1	07/18/2014	07/29/2014	0-1	24

Table 2-1

Summary of Total Aroclor Concentrations in Surface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
E-SB-1101	E-SB-1101-1-2	07/18/2014	07/29/2014	1-2	2.46
E-SB-1102	E-SB-1102-0-1	07/23/2014	08/05/2014	0-1	0 U
E-SB-1102	E-SB-1102-1-2	07/23/2014	07/31/2014	1-2	0 U
E-SB-1103	E-SB-1103-0-1	07/23/2014	08/05/2014	0-1	0.35
E-SB-1103	E-SB-1103-1-2	07/23/2014	08/05/2014	1-2	0.0098
E-SB-1104	E-SB-1104-0-1	07/25/2014	08/06/2014	0-1	11
E-SB-1104	E-SB-1104-1-2	07/25/2014	08/07/2014	1-2	0.32
E-SB-1105	E-SB-1105-0-1	07/25/2014	08/07/2014	0-1	2.5
E-SB-1105	E-SB-1105-1-2	07/25/2014	08/07/2014	1-2	4.3
E-SB-1106	E-SB-1106-0-1	07/25/2014	08/07/2014	0-1	3.6
E-SB-1106	E-SB-1106-1-2	07/25/2014	08/07/2014	1-2	1.3
E-SB-1107	E-SB-1107-0-1	07/25/2014	08/07/2014	0-1	140
E-SB-1107	E-SB-1107-1-2	07/25/2014	08/07/2014	1-2	1.7
E-SB-1107	E-SB-1107-1-2-D	07/25/2014	08/07/2014	1-2	1.8
E-SB-1108	E-SB-1108-0-1	07/23/2014	07/31/2014	0-1	0.033
E-SB-1108	E-SB-1108-1-2	07/23/2014	08/05/2014	1-2	0.0084
E-SB-1109	E-SB-1109-0-1	07/25/2014	08/07/2014	0-1	290
E-SB-1109	E-SB-1109-1-2	07/25/2014	08/07/2014	1-2	2.1
E-SB-1110	E-SB-1110-0-1	07/23/2014	08/05/2014	0-1	5.6
E-SB-1110	E-SB-1110-1-2	07/23/2014	08/05/2014	1-2	0.17
E-SB-1111	E-SB-1111-0-1	07/23/2014	08/05/2014	0-1	0.0061
E-SB-1111	E-SB-1111-1-2	07/23/2014	08/05/2014	1-2	0.0096
E-SB-1112	E-SB-1112-0-1	07/25/2014	08/07/2014	0-1	3.6
E-SB-1112	E-SB-1112-0-1-D	07/25/2014	08/08/2014	0-1	15
E-SB-1112	E-SB-1112-1-2	07/25/2014	08/07/2014	1-2	0.58
E-SB-1113	E-SB-1113-0-1	07/23/2014	08/05/2014	0-1	0.013
E-SB-1113	E-SB-1113-1-2	07/23/2014	08/05/2014	1-2	0.0098
E-SB-1114	E-SB-1114-0-1	07/23/2014	08/05/2014	0-1	0.031
E-SB-1114	E-SB-1114-1-2	07/23/2014	08/05/2014	1-2	0.033
E-SB-1115	E-SB-1115-0-1	07/23/2014	07/31/2014	0-1	0.069
E-SB-1115	E-SB-1115-1-2	07/23/2014	07/31/2014	1-2	0.016
E-SB-1116	E-SB-1116-0-1	07/23/2014	07/31/2014	0-1	0.91
E-SB-1116	E-SB-1116-1-2	07/23/2014	07/31/2014	1-2	0.0075
E-SB-1117	E-SB-1117-0-1	07/25/2014	08/07/2014	0-1	0.12
E-SB-1117	E-SB-1117-1-2	07/25/2014	08/07/2014	1-2	0.062
E-SB-1118	E-SB-1118-0-1	07/25/2014	08/07/2014	0-1	0.51
E-SB-1118	E-SB-1118-1-2	07/25/2014	08/07/2014	1-2	0.52
E-SB-1119	E-SB-1119-0-1	07/25/2014	08/07/2014	0-1	0.75
E-SB-1119	E-SB-1119-1-2	07/25/2014	08/07/2014	1-2	0.33
E-SB-1120	E-SB-1120-0-1	07/23/2014	07/31/2014	0-1	0.0057
E-SB-1120	E-SB-1120-1-2	07/23/2014	07/31/2014	1-2	0 U
E-SB-1121	E-SB-1121-0-1	07/23/2014	07/31/2014	0-1	0.29

Table 2-1

Summary of Total Aroclor Concentrations in Surface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
E-SB-1121	E-SB-1121-1-2	07/23/2014	07/31/2014	1-2	0.02
E-SB-1122	E-SB-1122-0-1	07/25/2014	08/07/2014	0-1	0.035
E-SB-1122	E-SB-1122-1-2	07/25/2014	08/07/2014	1-2	0.0073
E-SB-1123	E-SB-1123-0-1	07/25/2014	08/07/2014	0-1	22
E-SB-1123	E-SB-1123-1-2	07/25/2014	08/07/2014	1-2	0.44
E-SB-1124	E-SB-1124-0-1	07/25/2014	08/07/2014	0-1	8.1
E-SB-1124	E-SB-1124-1-2	07/25/2014	08/07/2014	1-2	1.4
E-SB-1125	E-SB-1125-0-1	07/16/2014	07/28/2014	0-1	0.25
E-SB-1125	E-SB-1125-1-2	07/16/2014	07/28/2014	1-2	0.03
E-SB-1126	E-SB-1126-0-1	07/22/2014	07/31/2014	0-1	0 U
E-SB-1126	E-SB-1126-1-2	07/22/2014	07/31/2014	1-2	0 U
E-SB-1127	E-SB-1127-0-1	07/22/2014	07/31/2014	0-1	0 U
E-SB-1127	E-SB-1127-1-2	07/22/2014	07/31/2014	1-2	0 U
E-SB-1128	E-SB-1128-0-1	07/22/2014	07/31/2014	0-1	0 U
E-SB-1128	E-SB-1128-1-2	07/22/2014	07/31/2014	1-2	0 U
E-SB-1129	E-SB-1129-0-1	07/22/2014	07/31/2014	0-1	0 U
E-SB-1129	E-SB-1129-1-2	07/22/2014	07/31/2014	1-2	0 U
E-SB-1130	E-SB-1130-0-1	07/22/2014	07/31/2014	0-1	0 U
E-SB-1130	E-SB-1130-1-2	07/22/2014	08/01/2014	1-2	0 U
E-SB-1131	E-SB-1131-0-1	07/22/2014	07/31/2014	0-1	0 U
E-SB-1131	E-SB-1131-1-2	07/22/2014	07/31/2014	1-2	0 U
E-SB-1132	E-SB-1132-0-1	07/23/2014	08/05/2014	0-1	0 U
E-SB-1132	E-SB-1132-1-2	07/23/2014	08/05/2014	1-2	0 U
E-SB-1133	E-SB-1133-0-1	07/23/2014	08/05/2014	0-1	0 U
E-SB-1133	E-SB-1133-1-2	07/23/2014	08/05/2014	1-2	0 U
E-SB-1133	E-SB-1133-1-2-D	07/23/2014	08/05/2014	1-2	0 U
E-SB-1134	E-SB-1134-0-1	07/23/2014	08/05/2014	0-1	0 U
E-SB-1134	E-SB-1134-1-2	07/23/2014	08/05/2014	1-2	0 U
E-SB-1135	E-SB-1135-0-1	07/23/2014	08/05/2014	0-1	0 U
E-SB-1135	E-SB-1135-1-2	07/23/2014	08/06/2014	1-2	0 U
E-SB-1136	E-SB-1136-0-1	07/23/2014	08/05/2014	0-1	0 U
E-SB-1136	E-SB-1136-1-2	07/23/2014	08/05/2014	1-2	0.042
E-SB-1136	E-SB-1136-1-2-D	07/23/2014	08/05/2014	1-2	0.068
E-SB-1137	E-SB-1137-0-1	07/23/2014	08/05/2014	0-1	0 U
E-SB-1137	E-SB-1137-1-2	07/23/2014	08/05/2014	1-2	0 U
E-SB-1138	E-SB-1138-0-1	07/23/2014	08/05/2014	0-1	0 U
E-SB-1138	E-SB-1138-1-2	07/23/2014	08/05/2014	1-2	0 U
E-SB-1139	E-SB-1139-0-1	07/23/2014	08/05/2014	0-1	0 U
E-SB-1139	E-SB-1139-1-2	07/23/2014	08/05/2014	1-2	0 U
E-SB-113A	E-SB-113A-0-0.5	07/08/2013	07/18/2013	0-0.5	12
E-SB-113A	E-SB-113A-1-2	07/08/2013	07/18/2013	1-2	0.073
E-SB-1140	E-SB-1140-0-1	07/23/2014	08/05/2014	0-1	0 U

Table 2-1

Summary of Total Aroclor Concentrations in Surface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
E-SB-1140	E-SB-1140-1-2	07/23/2014	08/05/2014	1-2	0 U
E-SB-1141	E-SB-1141-0-1	07/17/2014	07/30/2014	0-1	0.69
E-SB-1141	E-SB-1141-1-2	07/17/2014	07/31/2014	1-2	0.057
E-SB-1142	E-SB-1142-0-1	07/17/2014	07/30/2014	0-1	4.7
E-SB-1142	E-SB-1142-1-2	07/17/2014	07/30/2014	1-2	0.046
E-SB-1143	E-SB-1143-0-1	07/17/2014	07/30/2014	0-1	0.21
E-SB-1143	E-SB-1143-1-2	07/17/2014	07/30/2014	1-2	0 U
E-SB-1144	E-SB-1144-0-1	07/17/2014	07/30/2014	0-1	0.55
E-SB-1144	E-SB-1144-1-2	07/17/2014	07/30/2014	1-2	0 U
E-SB-1145	E-SB-1145-0-1	07/17/2014	07/30/2014	0-1	1.1
E-SB-1145	E-SB-1145-1-2	07/17/2014	07/30/2014	1-2	0.024
E-SB-1146	E-SB-1146-0-1	07/17/2014	07/30/2014	0-1	1.8
E-SB-1146	E-SB-1146-1-2	07/17/2014	07/30/2014	1-2	0.46
E-SB-1147	E-SB-1147-0-1	07/17/2014	07/29/2014	0-1	35
E-SB-1147	E-SB-1147-1-2	07/17/2014	07/29/2014	1-2	0.092
E-SB-1148	E-SB-1148-0-1	07/17/2014	07/29/2014	0-1	280
E-SB-1148	E-SB-1148-1-2	07/17/2014	07/29/2014	1-2	3.3
E-SB-1149	E-SB-1149-0-1	07/17/2014	07/29/2014	0-1	55
E-SB-1149	E-SB-1149-1-2	07/17/2014	07/29/2014	1-2	0.17
E-SB-114A	E-SB-114A-0-0.5	07/08/2013	07/18/2013	0-0.5	21
E-SB-114A	E-SB-114A-1-2	07/08/2013	07/18/2013	1-2	0.21
E-SB-1150	E-SB-1150-0-1	07/23/2014	08/05/2014	0-1	0.11
E-SB-1150	E-SB-1150-1-2	07/23/2014	08/05/2014	1-2	0.044
E-SB-1151	E-SB-1151-0-1	07/17/2014	07/29/2014	0-1	200
E-SB-1151	E-SB-1151-1-2	07/17/2014	07/29/2014	1-2	0.22
E-SB-1152	E-SB-1152-0-1	07/17/2014	07/29/2014	0-1	3
E-SB-1152	E-SB-1152-1-2	07/17/2014	07/29/2014	1-2	0.045
E-SB-1153	E-SB-1153-0-1	07/17/2014	07/29/2014	0-1	130
E-SB-1153	E-SB-1153-1-2	07/17/2014	07/29/2014	1-2	0.17
E-SB-1154	E-SB-1154-0-1	07/17/2014	07/29/2014	0-1	11
E-SB-1154	E-SB-1154-1-2	07/17/2014	07/29/2014	1-2	0.19
E-SB-1155	E-SB-1155-0-1	07/17/2014	07/29/2014	0-1	5.2
E-SB-1155	E-SB-1155-1-2	07/17/2014	07/29/2014	1-2	0.051
E-SB-1156	E-SB-1156-0-1	07/22/2014	07/31/2014	0-1	0.008
E-SB-1156	E-SB-1156-1-2	07/22/2014	07/31/2014	1-2	0.011
E-SB-1157	E-SB-1157-0-1	07/22/2014	07/31/2014	0-1	0 U
E-SB-1157	E-SB-1157-1-2	07/22/2014	07/31/2014	1-2	0 U
E-SB-1158	E-SB-1158-0-1	07/22/2014	07/31/2014	0-1	0 U
E-SB-1158	E-SB-1158-1-2	07/22/2014	07/31/2014	1-2	0 U
E-SB-1159	E-SB-1159-0-1	07/22/2014	07/31/2014	0-1	0 U
E-SB-1159	E-SB-1159-1-2	07/22/2014	07/31/2014	1-2	0 U
E-SB-1160	E-SB-1160-0-1	07/22/2014	07/31/2014	0-1	0 U

Table 2-1

Summary of Total Aroclor Concentrations in Surface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
E-SB-1160	E-SB-1160-1-2	07/22/2014	07/31/2014	1-2	0 U
E-SB-1161	E-SB-1161-0-1	07/22/2014	07/31/2014	0-1	0 U
E-SB-1161	E-SB-1161-1-2	07/22/2014	07/31/2014	1-2	0 U
E-SB-1162	E-SB-1162-0-1	07/22/2014	07/30/2014	0-1	0 U
E-SB-1162	E-SB-1162-1-2	07/22/2014	07/31/2014	1-2	0 U
E-SB-1163	E-SB-1163-0-1	07/22/2014	07/30/2014	0-1	0 U
E-SB-1163	E-SB-1163-1-2	07/22/2014	07/30/2014	1-2	0 U
E-SB-1164	E-SB-1164-0-1	07/22/2014	07/30/2014	0-1	0.023
E-SB-1164	E-SB-1164-1-2	07/22/2014	07/30/2014	1-2	0.024
E-SB-1165	E-SB-1165-0-1	07/22/2014	07/30/2014	0-1	0.015
E-SB-1165	E-SB-1165-1-2	07/22/2014	07/30/2014	1-2	0.03
E-SB-1166	E-SB-1166-0-1	07/22/2014	07/30/2014	0-1	0 U
E-SB-1166	E-SB-1166-1-2	07/22/2014	07/30/2014	1-2	0 U
E-SB-1167	E-SB-1167-0-1	07/22/2014	07/30/2014	0-1	0 U
E-SB-1167	E-SB-1167-1-2	07/22/2014	07/30/2014	1-2	0 U
E-SB-1168	E-SB-1168-0-1	07/22/2014	07/30/2014	0-1	0.11
E-SB-1168	E-SB-1168-1-2	07/22/2014	07/30/2014	1-2	0.046
E-SB-1169	E-SB-1169-0-1	07/23/2014	08/05/2014	0-1	0.85
E-SB-1169	E-SB-1169-1-2	07/23/2014	08/05/2014	1-2	0.0072
E-SB-1170	E-SB-1170-0-1	07/21/2014	07/30/2014	0-1	0.57
E-SB-1170	E-SB-1170-1-2	07/21/2014	07/30/2014	1-2	0 U
E-SB-1171	E-SB-1171-0-1	07/21/2014	07/30/2014	0-1	0.019
E-SB-1171	E-SB-1171-1-2	07/21/2014	07/30/2014	1-2	0 U
E-SB-1171	E-SB-1171-1-2-D	07/21/2014	07/30/2014	1-2	0 U
E-SB-1172	E-SB-1172-0-1	07/21/2014	07/30/2014	0-1	0.047
E-SB-1172	E-SB-1172-1-2	07/21/2014	07/30/2014	1-2	0 U
E-SB-1172	E-SB-1172-1-2-D	07/21/2014	07/30/2014	1-2	0.01
E-SB-1173	E-SB-1173-0-1	07/21/2014	07/30/2014	0-1	0.0093
E-SB-1173	E-SB-1173-1-2	07/21/2014	07/30/2014	1-2	0.015
E-SB-1175	E-SB-1175-0-1	07/21/2014	07/30/2014	0-1	0.0093
E-SB-1175	E-SB-1175-1-2	07/21/2014	07/30/2014	1-2	0.0061
E-SB-1176	E-SB-1176-0-1	07/16/2014	07/28/2014	0-1	14
E-SB-1176	E-SB-1176-1-2	07/16/2014	07/28/2014	1-2	0.046
E-SB-1177	E-SB-1177-0-1	07/16/2014	07/28/2014	0-1	32
E-SB-1177	E-SB-1177-1-2	07/16/2014	07/28/2014	1-2	0.052
E-SB-1178	E-SB-1178-0-1	07/16/2014	07/30/2014	0-1	2.4
E-SB-1178	E-SB-1178-1-2	07/16/2014	07/28/2014	1-2	0.0083
E-SB-1179	E-SB-1179-0-1	07/16/2014	07/28/2014	0-1	20
E-SB-1179	E-SB-1179-1-2	07/16/2014	07/28/2014	1-2	0.027
E-SB-1180	E-SB-1180-0-1	07/16/2014	07/29/2014	0-1	0.0073
E-SB-1180	E-SB-1180-1-2	07/16/2014	07/29/2014	1-2	0.0045
E-SB-1181	E-SB-1181-0-1	07/17/2014	07/29/2014	0-1	6.1

Table 2-1

Summary of Total Aroclor Concentrations in Surface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
E-SB-1181	E-SB-1181-1-2	07/17/2014	07/29/2014	1-2	0.14
E-SB-1182	E-SB-1182-0-1	07/17/2014	07/29/2014	0-1	2.5
E-SB-1182	E-SB-1182-1-2	07/17/2014	07/29/2014	1-2	0.0052
E-SB-1183	E-SB-1183-0-1	07/17/2014	07/29/2014	0-1	60
E-SB-1183	E-SB-1183-1-2	07/17/2014	07/29/2014	1-2	0.59
E-SB-1184	E-SB-1184-0-1	07/28/2014	08/08/2014	0-1	16
E-SB-1184	E-SB-1184-1-2	07/28/2014	08/08/2014	1-2	1.1
E-SB-1185	E-SB-1185-0-1	07/24/2014	08/07/2014	0-1	0.019
E-SB-1185	E-SB-1185-1-2	07/24/2014	08/07/2014	1-2	0.017
E-SB-1186	E-SB-1186-0-1	07/28/2014	08/08/2014	0-1	4.6
E-SB-1186	E-SB-1186-1-2	07/28/2014	08/08/2014	1-2	1.7
E-SB-1187	E-SB-1187-0-1	07/28/2014	08/08/2014	0-1	58
E-SB-1187	E-SB-1187-1-2	07/28/2014	08/08/2014	1-2	340
E-SB-1188	E-SB-1188-0-1	07/28/2014	08/08/2014	0-1	39
E-SB-1188	E-SB-1188-1-2	07/28/2014	08/08/2014	1-2	0.49
E-SB-1189	E-SB-1189-0-1	07/28/2014	08/08/2014	0-1	64
E-SB-1189	E-SB-1189-1-2	07/28/2014	08/08/2014	1-2	29
E-SB-1190	E-SB-1190-0-1	07/28/2014	08/08/2014	0-1	3.1
E-SB-1190	E-SB-1190-1-2	07/28/2014	08/08/2014	1-2	6.1
E-SB-1191	E-SB-1191-0-1	07/24/2014	08/07/2014	0-1	83
E-SB-1191	E-SB-1191-1-2	07/24/2014	08/07/2014	1-2	4.7
E-SB-1191	E-SB-1191-1-2-D	07/24/2014	08/07/2014	1-2	3.9
E-SB-1192	E-SB-1192-0-1	07/28/2014	08/08/2014	0-1	140
E-SB-1192	E-SB-1192-1-2	07/28/2014	08/08/2014	1-2	34
E-SB-1193	E-SB-1193-0-1	07/28/2014	08/08/2014	0-1	0.44
E-SB-1193	E-SB-1193-1-2	07/28/2014	08/08/2014	1-2	0.47
E-SB-1194	E-SB-1194-0-1	07/28/2014	08/08/2014	0-1	21
E-SB-1194	E-SB-1194-1-2	07/28/2014	08/08/2014	1-2	0.23
E-SB-1195	E-SB-1195-0-1	07/29/2014	08/08/2014	0-1	9.5
E-SB-1195	E-SB-1195-1-2	07/29/2014	08/08/2014	1-2	0.2
E-SB-1196	E-SB-1196-0-1	07/28/2014	08/08/2014	0-1	97
E-SB-1196	E-SB-1196-1-2	07/28/2014	08/08/2014	1-2	2.4
E-SB-1197	E-SB-1197-0-1	07/28/2014	08/08/2014	0-1	4.6
E-SB-1197	E-SB-1197-1-2	07/28/2014	08/08/2014	1-2	0.43
E-SB-1197	E-SB-1197-1-2-D	07/28/2014	08/08/2014	1-2	0.52
E-SB-1198	E-SB-1198-0-1	07/28/2014	08/08/2014	0-1	56
E-SB-1198	E-SB-1198-1-2	07/28/2014	08/08/2014	1-2	1.1
E-SB-1199	E-SB-1199-0-1	07/28/2014	08/08/2014	0-1	3.7
E-SB-1199	E-SB-1199-1-2	07/28/2014	08/08/2014	1-2	6
E-SB-1200	E-SB-1200-0-1	07/28/2014	08/08/2014	0-1	740
E-SB-1200	E-SB-1200-1-2	07/28/2014	08/08/2014	1-2	1.5
E-SB-1201	E-SB-1201-0-1	07/28/2014	08/08/2014	0-1	0.44

Table 2-1

Summary of Total Aroclor Concentrations in Surface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
E-SB-1201	E-SB-1201-1-2	07/28/2014	08/08/2014	1-2	0.69
E-SB-1201	E-SB-1201-1-2-D	07/28/2014	08/08/2014	1-2	0.57
E-SB-1202	E-SB-1202-0-1	07/24/2014	08/07/2014	0-1	0.064
E-SB-1202	E-SB-1202-1-2	07/24/2014	08/07/2014	1-2	0.07
E-SB-1203	E-SB-1203-0-1	07/29/2014	08/15/2014	0-1	0.078
E-SB-1203	E-SB-1203-1-2	07/29/2014	08/15/2014	1-2	0.15
E-SB-1204	E-SB-1204-0-1	07/28/2014	08/06/2014	0-1	8
E-SB-1204	E-SB-1204-1-2	07/28/2014	08/08/2014	1-2	0.023
E-SB-1205	E-SB-1205-0-1	07/31/2014	08/13/2014	0-1	5.4
E-SB-1205	E-SB-1205-1-2	07/31/2014	08/13/2014	1-2	0.63
E-SB-1206	E-SB-1206-0-1	07/31/2014	08/13/2014	0-1	2.6
E-SB-1206	E-SB-1206-1-2	07/31/2014	08/13/2014	1-2	0.022
E-SB-1206	E-SB-1206-1-2-D	07/31/2014	08/13/2014	1-2	0.024
E-SB-1207	E-SB-1207-0-1	07/24/2014	08/05/2014	0-1	0 U
E-SB-1207	E-SB-1207-1-2	07/24/2014	08/05/2014	1-2	0 U
E-SB-1208	E-SB-1208-0-1	07/24/2014	08/05/2014	0-1	0 U
E-SB-1208	E-SB-1208-1-2	07/24/2014	08/05/2014	1-2	0 U
E-SB-1209	E-SB-1209-0-1	07/24/2014	08/05/2014	0-1	0 U
E-SB-1209	E-SB-1209-1-2	07/24/2014	08/05/2014	1-2	0 U
E-SB-1210	E-SB-1210-0-1	07/24/2014	08/05/2014	0-1	0 U
E-SB-1210	E-SB-1210-1-2	07/24/2014	08/05/2014	1-2	0 U
E-SB-1211	E-SB-1211-0-1	07/24/2014	08/05/2014	0-1	0 U
E-SB-1211	E-SB-1211-1-2	07/24/2014	08/05/2014	1-2	0.06
E-SB-1212	E-SB-1212-0-1	07/24/2014	08/05/2014	0-1	0 U
E-SB-1212	E-SB-1212-1-2	07/24/2014	08/05/2014	1-2	0 U
E-SB-1213	E-SB-1213-0-1	07/24/2014	08/05/2014	0-1	0 U
E-SB-1213	E-SB-1213-1-2	07/24/2014	08/05/2014	1-2	0 U
E-SB-1214	E-SB-1214-0-1	07/24/2014	08/05/2014	0-1	0 U
E-SB-1214	E-SB-1214-1-2	07/24/2014	08/05/2014	1-2	0 U
E-SB-1215	E-SB-1215-0-1	07/24/2014	08/05/2014	0-1	0.04
E-SB-1215	E-SB-1215-1-2	07/24/2014	08/05/2014	1-2	0.0052
E-SB-1216	E-SB-1216-0-1	07/24/2014	08/05/2014	0-1	0.013
E-SB-1216	E-SB-1216-1-2	07/24/2014	08/05/2014	1-2	0.021
E-SB-1217	E-SB-1217-0-1	07/29/2014	08/15/2014	0-1	0.034
E-SB-1217	E-SB-1217-1-2	07/29/2014	08/15/2014	1-2	0.035
E-SB-1218	E-SB-1218-0-1	07/31/2014	08/13/2014	0-1	14
E-SB-1218	E-SB-1218-1-2	07/31/2014	08/13/2014	1-2	0.093
E-SB-1218	E-SB-1218-1-2-D	07/31/2014	08/13/2014	1-2	0.21
E-SB-1219	E-SB-1219-0-1	07/29/2014	08/08/2014	0-1	4.7
E-SB-1219	E-SB-1219-1-2	07/29/2014	08/08/2014	1-2	0.18
E-SB-1220	E-SB-1220-0-1	07/29/2014	08/08/2014	0-1	2
E-SB-1220	E-SB-1220-1-2	07/29/2014	08/08/2014	1-2	0.093

Table 2-1

Summary of Total Aroclor Concentrations in Surface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
E-SB-1221	E-SB-1221-0-1	07/29/2014	08/13/2014	0-1	5.7
E-SB-1221	E-SB-1221-1-2	07/29/2014	08/08/2014	1-2	0.6
E-SB-1222	E-SB-1222-0-1	07/29/2014	08/08/2014	0-1	2.8
E-SB-1222	E-SB-1222-1-2	07/29/2014	08/08/2014	1-2	0.6
E-SB-1223	E-SB-1223-0-1	07/29/2014	08/08/2014	0-1	12
E-SB-1223	E-SB-1223-1-2	07/29/2014	08/08/2014	1-2	2.3
E-SB-1224	E-SB-1224-0-1	07/29/2014	08/08/2014	0-1	5.1
E-SB-1224	E-SB-1224-1-2	07/29/2014	08/08/2014	1-2	0.045
E-SB-1225	E-SB-1225-0-1	07/29/2014	08/08/2014	0-1	6.7
E-SB-1225	E-SB-1225-1-2	07/29/2014	08/15/2014	1-2	0.065
E-SB-1226	E-SB-1226-0-1	07/24/2014	08/07/2014	0-1	0.0051
E-SB-1226	E-SB-1226-1-2	07/24/2014	08/07/2014	1-2	0 U
E-SB-1227	E-SB-1227-0-1	07/24/2014	08/07/2014	0-1	0.12
E-SB-1227	E-SB-1227-1-2	07/24/2014	08/07/2014	1-2	0.063
E-SB-1228	E-SB-1228-0-1	07/24/2014	08/07/2014	0-1	0.011
E-SB-1228	E-SB-1228-1-2	07/24/2014	08/07/2014	1-2	0.0091
E-SB-1229	E-SB-1229-0-1	07/24/2014	08/05/2014	0-1	0 U
E-SB-1229	E-SB-1229-0-1-D	07/24/2014	08/07/2014	0-1	0 U
E-SB-1229	E-SB-1229-1-2	07/24/2014	08/07/2014	1-2	0 U
E-SB-1230	E-SB-1230-0-1	07/29/2014	08/15/2014	0-1	36
E-SB-1230	E-SB-1230-1-2	07/29/2014	08/15/2014	1-2	0.18
E-SB-1231	E-SB-1231-0-1	07/24/2014	08/07/2014	0-1	0.022
E-SB-1231	E-SB-1231-1-2	07/24/2014	07/31/2014	1-2	0 U
E-SB-1232	E-SB-1232-0-1	07/24/2014	08/07/2014	0-1	1.7
E-SB-1232	E-SB-1232-1-2	07/24/2014	08/07/2014	1-2	0.13
E-SB-1233	E-SB-1233-0-1	07/24/2014	08/07/2014	0-1	0.021
E-SB-1233	E-SB-1233-1-2	07/24/2014	08/05/2014	1-2	0 U
E-SB-1234	E-SB-1234-0-1	07/24/2014	08/05/2014	0-1	0 U
E-SB-1234	E-SB-1234-1-2	07/24/2014	08/05/2014	1-2	0 U
E-SB-1235	E-SB-1235-0-1	07/24/2014	08/05/2014	0-1	0 U
E-SB-1235	E-SB-1235-1-2	07/24/2014	08/05/2014	1-2	0 U
E-SB-1236	E-SB-1236-0-1	07/24/2014	08/05/2014	0-1	0.0065
E-SB-1236	E-SB-1236-1-2	07/24/2014	08/13/2014	1-2	0 U
E-SB-1237	E-SB-1237-0-1	07/24/2014	08/05/2014	0-1	0 U
E-SB-1237	E-SB-1237-1-2	07/24/2014	08/05/2014	1-2	0 U
E-SB-1238	E-SB-1238-0-1	07/29/2014	08/15/2014	0-1	16
E-SB-1238	E-SB-1238-1-2	07/29/2014	08/15/2014	1-2	1.4
E-SB-1239	E-SB-1239-0-1	07/29/2014	08/19/2014	0-1	17
E-SB-1239	E-SB-1239-1-2	07/29/2014	08/15/2014	1-2	1.3
E-SB-1240	E-SB-1240-0-1	07/29/2014	08/15/2014	0-1	860
E-SB-1240	E-SB-1240-1-2	07/29/2014	08/15/2014	1-2	1.7
E-SB-1241	E-SB-1241-0-1	07/24/2014	08/07/2014	0-1	0.011

Table 2-1

Summary of Total Aroclor Concentrations in Surface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
E-SB-1241	E-SB-1241-1-2	07/24/2014	08/07/2014	1-2	0.0085
E-SB-1242	E-SB-1242-0-1	07/24/2014	08/07/2014	0-1	0 U
E-SB-1242	E-SB-1242-1-2	07/24/2014	08/07/2014	1-2	0 U
E-SB-1243	E-SB-1243-0-1	07/29/2014	08/09/2014	0-1	18
E-SB-1243	E-SB-1243-1-2	07/29/2014	08/09/2014	1-2	90
E-SB-1244	E-SB-1244-0-1	07/29/2014	08/15/2014	0-1	20
E-SB-1244	E-SB-1244-1-2	07/29/2014	08/15/2014	1-2	1.4
E-SB-1244	E-SB-1244-1-2-D	07/29/2014	08/09/2014	1-2	1.4
E-SB-1245	E-SB-1245-0-1	07/29/2014	08/15/2014	0-1	44
E-SB-1245	E-SB-1245-1-2	07/29/2014	08/19/2014	1-2	0.1
E-SB-1246	E-SB-1246-0-1	07/31/2014	08/13/2014	0-1	3.3
E-SB-1246	E-SB-1246-1-2	07/31/2014	08/13/2014	1-2	0.25
E-SB-1246	E-SB-1246-1-2-D	07/31/2014	08/13/2014	1-2	0.1
E-SB-1247	E-SB-1247-0-1	07/31/2014	08/13/2014	0-1	0.73
E-SB-1247	E-SB-1247-1-2	07/31/2014	08/13/2014	1-2	0.029
E-SB-1248	E-SB-1248-0-1	07/29/2014	08/08/2014	0-1	3.3
E-SB-1248	E-SB-1248-1-2	07/29/2014	08/08/2014	1-2	0.12
E-SB-1249	E-SB-1249-0-1	07/31/2014	08/13/2014	0-1	0.74
E-SB-1249	E-SB-1249-1-2	07/31/2014	08/13/2014	1-2	0.096
E-SB-1250	E-SB-1250-0-1	07/31/2014	08/13/2014	0-1	0.26
E-SB-1250	E-SB-1250-1-2	07/31/2014	08/13/2014	1-2	0.072
E-SB-1251	E-SB-1251-0-1	07/31/2014	08/17/2014	0-1	4.3
E-SB-1251	E-SB-1251-1-2	07/31/2014	08/13/2014	1-2	0.054
E-SB-1280	E-SB-1280-0-1	07/21/2014	07/30/2014	0-1	0.0076
E-SB-1280	E-SB-1280-1-2	07/21/2014	07/30/2014	1-2	0.0055
E-SB-1281	E-SB-1281-0-1	07/14/2014	07/21/2014	0-1	0.12
E-SB-1281	E-SB-1281-1-2	07/14/2014	07/21/2014	1-2	0.12
E-SB-1282	E-SB-1282-0-1	07/14/2014	07/21/2014	0-1	0.45
E-SB-1282	E-SB-1282-1-2	07/14/2014	07/21/2014	1-2	0.065
E-SB-1283	E-SB-1283-0-1	07/14/2014	07/18/2014	0-1	0 U
E-SB-1283	E-SB-1283-1-2	07/14/2014	07/18/2014	1-2	0 U
E-SB-1284	E-SB-1284-0-1	07/14/2014	07/18/2014	0-1	0 U
E-SB-1284	E-SB-1284-1-2	07/14/2014	07/18/2014	1-2	0 U
E-SB-1285	E-SB-1285-0-1	07/14/2014	07/18/2014	0-1	0 U
E-SB-1285	E-SB-1285-1-2	07/14/2014	07/18/2014	1-2	0 U
E-SB-1286	E-SB-1286-0-1	07/14/2014	07/18/2014	0-1	0 U
E-SB-1286	E-SB-1286-1-2	07/14/2014	07/18/2014	1-2	0 U
E-SB-1287	E-SB-1287-0-1	07/14/2014	07/21/2014	0-1	0 U
E-SB-1287	E-SB-1287-1-2	07/14/2014	07/21/2014	1-2	0 U
E-SB-1288	E-SB-1288-0-1	07/14/2014	07/21/2014	0-1	0 U
E-SB-1288	E-SB-1288-1-2	07/14/2014	07/21/2014	1-2	0 U
E-SB-1370	E-SB-1370-0-2	07/30/2014	08/07/2014	0-2	42

Table 2-1

Summary of Total Aroclor Concentrations in Surface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
E-SB-1371	E-SB-1371-0-2	07/30/2014	08/09/2014	0-2	10
E-SB-1372	E-SB-1372-0-2	07/30/2014	08/12/2014	0-2	14
E-SB-1373	E-SB-1373-0-2	07/30/2014	08/12/2014	0-2	17
E-SB-1374	E-SB-1374-0-2	07/30/2014	08/12/2014	0-2	64
E-SB-1378	E-SB-1378-0-2	07/30/2014	08/07/2014	0-2	389
E-SB-1398	E-SB-1398-0-1	11/13/2014	11/16/2014	0-1	0.044
E-SB-1399	E-SB-1399-0-1	11/13/2014	11/17/2014	0-1	4.9
E-SB-1439	E-SB-1439-0-2	03/30/2016	04/08/2016	0-2	0.021
E-SB-1439	E-SB-1439-0-2-D	03/30/2016	04/07/2016	0-2	0.014
E-SB-1440	E-SB-1440-0-2	03/30/2016	04/06/2016	0-2	0 U
E-SB-1441	E-SB-1441-0-2	03/30/2016	04/08/2016	0-2	0.011
E-SB-1442	E-SB-1442-0-2	03/30/2016	04/08/2016	0-2	0.027
E-SB-1443	E-SB-1443-0-2	03/30/2016	04/07/2016	0-2	0.044
E-SB-1444	E-SB-1444-0-2	03/30/2016	04/06/2016	0-2	0.13
E-SB-1445	E-SB-1445-0-2	03/30/2016	04/06/2016	0-2	0.063
E-SB-1446	E-SB-1446-0-2	03/30/2016	04/06/2016	0-2	0.33
E-SB-1447	E-SB-1447-0-2	03/31/2016	04/07/2016	0-2	5300
E-SB-1448	E-SB-1448-0-2	03/01/2016	03/08/2016	0-2	20
E-SB-1449	E-SB-1449-0-2	03/01/2016	03/08/2016	0-2	0.086
E-SB-1450	E-SB-1450-0-2	03/01/2016	03/10/2016	0-2	14
E-SB-1451	E-SB-1451-0-2	03/01/2016	03/10/2016	0-2	16
E-SB-1452	E-SB-1452-0-2	03/01/2016	03/09/2016	0-2	35
E-SB-1452	E-SB-1452-0-2-D	03/01/2016	03/09/2016	0-2	21
E-SB-1453	E-SB-1453-0-2	03/02/2016	03/09/2016	0-2	0.23
E-SB-1454	E-SB-1454-0-2	03/02/2016	03/09/2016	0-2	7.3
E-SB-1454	E-SB-1454-0-2-D	03/02/2016	03/10/2016	0-2	15
E-SB-1455	E-SB-1455-0-2	03/02/2016	03/10/2016	0-2	7.7
E-SB-1456	E-SB-1456-0-2	03/02/2016	03/10/2016	0-2	110
E-SB-1457	E-SB-1457-0-1	02/26/2016	03/03/2016	0-1	0.016
E-SB-1457	E-SB-1457-1-2	02/26/2016	03/03/2016	1-2	0 U
E-SB-1458	E-SB-1458-0-1	02/26/2016	03/03/2016	0-1	0 U
E-SB-1458	E-SB-1458-1-2	02/26/2016	03/03/2016	1-2	0 U
E-SB-1459	E-SB-1459-0-1	02/26/2016	03/03/2016	0-1	0 U
E-SB-1459	E-SB-1459-1-2	02/26/2016	03/03/2016	1-2	0.035
E-SB-1460	E-SB-1460-0-1	02/26/2016	03/03/2016	0-1	0.011
E-SB-1460	E-SB-1460-1-2	02/26/2016	03/03/2016	1-2	0 U
E-SB-1461	E-SB-1461-0-2	02/26/2016	03/05/2016	0-2	4200
E-SB-1464	E-SB-1464-0-2	02/25/2016	03/03/2016	0-2	0 U
E-SB-1465	E-SB-1465-0-2	02/25/2016	03/03/2016	0-2	0.045
E-SB-1466	E-SB-1466-0-2	02/25/2016	03/03/2016	0-2	0.092
E-SB-1471	E-SB-1471-0-2	03/29/2016	04/05/2016	0-2	0.4
E-SB-1472	E-SB-1472-0-2	03/30/2016	04/06/2016	0-2	94

Table 2-1

Summary of Total Aroclor Concentrations in Surface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
E-SB-1473	E-SB-1473-0-2	03/30/2016	04/06/2016	0-2	0.93
E-SB-1474	E-SB-1474-0-2	02/29/2016	03/04/2016	0-2	0.065
E-SB-1475	E-SB-1475-0-2	03/29/2016	04/04/2016	0-2	1000
E-SB-1476	E-SB-1476-0-2	03/29/2016	04/08/2016	0-2	0 U
E-SB-1483	E-SB-1483-0-1	02/29/2016	03/04/2016	0-1	0.12
E-SB-1483	E-SB-1483-1-2	02/29/2016	03/04/2016	1-2	0 U
E-SB-1491	E-SB-1491-0-1	03/01/2016	03/08/2016	0-1	0.078
E-SB-1491	E-SB-1491-1-2	03/01/2016	03/08/2016	1-2	0 U
E-SB-1491	E-SB-1491-1-2-D	03/01/2016	03/08/2016	1-2	0 U
E-SB-1493	E-SB-1493-0-1	03/01/2016	03/08/2016	0-1	0.011
E-SB-1493	E-SB-1493-1-2	03/01/2016	03/08/2016	1-2	0 U
E-SB-1494	E-SB-1494-0-2	03/31/2016	04/06/2016	0-2	71
E-SB-1495	E-SB-1495-0-2	03/31/2016	04/07/2016	0-2	5
E-SB-1496	E-SB-1496-0-2	03/31/2016	04/08/2016	0-2	5.6
E-SB-1497	E-SB-1497-0-2	03/31/2016	04/07/2016	0-2	0.086
E-SB-1498	E-SB-1498-0-2	03/31/2016	04/08/2016	0-2	0.026
E-SB-1498	E-SB-1498-0-2-D	03/31/2016	04/19/2016	0-2	0.048
E-SB-1499	E-SB-1499-0-2	03/31/2016	04/07/2016	0-2	530
E-SB-1500	E-SB-1500-0-2	03/31/2016	04/08/2016	0-2	0 U
E-SB-1501	E-SB-1501-0-2	03/04/2016	03/11/2016	0-2	4900
E-SB-1502	E-SB-1502-0-2	03/07/2016	03/15/2016	0-2	0.078
E-SB-1503	E-SB-1503-0-2	03/07/2016	03/15/2016	0-2	2.2
E-SB-1504	E-SB-1504-0-2	03/04/2016	03/09/2016	0-2	0.018
E-SB-1505	E-SB-1505-0-2	03/04/2016	03/09/2016	0-2	0.04
E-SB-1506	E-SB-1506-0-2	03/04/2016	03/09/2016	0-2	0.21
E-SB-1507	E-SB-1507-0-2	03/04/2016	03/09/2016	0-2	800
E-SB-1508	E-SB-1508-0-2	03/04/2016	03/09/2016	0-2	0.028
E-SB-1509	E-SB-1509-0-2	03/04/2016	03/10/2016	0-2	0.025
E-SB-1510	E-SB-1510-0-2	03/07/2016	03/16/2016	0-2	0.058
E-SB-1511	E-SB-1511-0-2	03/04/2016	03/14/2016	0-2	0.028
E-SB-1518	E-SB-1518-0-1	03/07/2016	03/11/2016	0-1	0.048
E-SB-1518	E-SB-1518-1-2	03/07/2016	03/11/2016	1-2	0 U
E-SB-1519	E-SB-1519-0-1	03/07/2016	03/11/2016	0-1	0 U
E-SB-1519	E-SB-1519-1-2	03/07/2016	03/11/2016	1-2	0 U
E-SB-1520	E-SB-1520-0-1	03/07/2016	03/11/2016	0-1	0.64
E-SB-1520	E-SB-1520-1-2	03/07/2016	03/11/2016	1-2	0.013
E-SB-1520	E-SB-1520-1-2-D	03/07/2016	03/11/2016	1-2	0.012
E-SB-1521	E-SB-1521-0-1	03/07/2016	03/11/2016	0-1	0.51
E-SB-1521	E-SB-1521-1-2	03/07/2016	03/11/2016	1-2	0.029
E-SB-1522	E-SB-1522-0-1	03/07/2016	03/11/2016	0-1	2.5
E-SB-1522	E-SB-1522-1-2	03/07/2016	03/12/2016	1-2	0 U
E-SB-1523	E-SB-1523-0-1	03/07/2016	03/12/2016	0-1	0.058

Table 2-1

Summary of Total Aroclor Concentrations in Surface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
E-SB-1523	E-SB-1523-1-2	03/07/2016	03/12/2016	1-2	0 U
E-SB-1524	E-SB-1524-0-1	03/08/2016	03/15/2016	0-1	1.5
E-SB-1524	E-SB-1524-1-2	03/08/2016	03/15/2016	1-2	0.027
E-SB-1525	E-SB-1525-0-1	03/08/2016	03/15/2016	0-1	0 U
E-SB-1525	E-SB-1525-1-2	03/08/2016	03/16/2016	1-2	0 U
E-SB-1526	E-SB-1526-0-1	03/08/2016	03/15/2016	0-1	2.2
E-SB-1526	E-SB-1526-1-2	03/08/2016	03/15/2016	1-2	0 U
E-SB-1526	E-SB-1526-1-2-D	03/08/2016	03/15/2016	1-2	0 U
E-SB-1527	E-SB-1527-0-1	03/08/2016	03/15/2016	0-1	0.91
E-SB-1527	E-SB-1527-1-2	03/08/2016	03/15/2016	1-2	0 U
E-SB-1528	E-SB-1528-0-1	03/08/2016	03/15/2016	0-1	4.2
E-SB-1528	E-SB-1528-1-2	03/08/2016	03/15/2016	1-2	0.066
E-SB-1529	E-SB-1529-0-1	03/07/2016	03/11/2016	0-1	0.027
E-SB-1529	E-SB-1529-1-2	03/07/2016	03/11/2016	1-2	0.17
E-SB-1530	E-SB-1530-0-2	03/03/2016	03/10/2016	0-2	0.15
E-SB-1531	E-SB-1531-0-2	03/03/2016	03/09/2016	0-2	0.13
E-SB-1532	E-SB-1532-0-2	03/03/2016	03/09/2016	0-2	60
E-SB-1533	E-SB-1533-0-2	03/03/2016	03/09/2016	0-2	0.044
E-SB-1534	E-SB-1534-0-2	03/03/2016	03/11/2016	0-2	0.017
E-SB-1535	E-SB-1535-0-2	03/03/2016	03/09/2016	0-2	0.048
E-SB-1535	E-SB-1535-0-2-D	03/03/2016	03/09/2016	0-2	0.033
E-SB-1536	E-SB-1536-0-2	02/09/2017	02/24/2017	0-2	0 U
E-SB-1537	E-SB-1537-0-2	02/09/2017	02/27/2017	0-2	2
E-SB-1538	E-SB-1538-0-2	02/09/2017	02/23/2017	0-2	0 U
E-SB-1539	E-SB-1539-0-2	02/10/2017	02/24/2017	0-2	0 U
E-SB-1540	E-SB-1540-0-2	02/10/2017	02/24/2017	0-2	0 U
E-SB-1541	E-SB-1541-0-2	02/09/2017	02/23/2017	0-2	0 U
E-SB-1542	E-SB-1542-0-2	02/09/2017	02/23/2017	0-2	0 U
E-SB-1543	E-SB-1543-0-2	01/10/2017	01/18/2017	0-2	0.16
E-SB-1544	E-SB-1544-0-2	01/09/2017	01/17/2017	0-2	0.053
E-SB-1545	E-SB-1545-0-2	01/09/2017	01/17/2017	0-2	0.59
E-SB-1546	E-SB-1546-0-2	01/09/2017	01/17/2017	0-2	49
E-SB-1546	E-SB-1546-0-2-D	01/09/2017	01/17/2017	0-2	88
E-SB-1547	E-SB-1547-0-2	01/09/2017	01/17/2017	0-2	750
E-SB-1548	E-SB-1548-0-2	01/09/2017	01/17/2017	0-2	0.23
E-SB-1549	E-SB-1549-0-2	01/10/2017	01/18/2017	0-2	0.081
E-SB-1550	E-SB-1550-0-2	01/10/2017	01/18/2017	0-2	0 U
E-SB-1551	E-SB-1551-0-2	01/10/2017	01/18/2017	0-2	1.3
E-SB-1552	E-SB-1552-0-2	01/10/2017	01/18/2017	0-2	0.12
E-SB-1553	E-SB-1553-0-2	01/10/2017	01/17/2017	0-2	0.18
E-SB-1589	E-SB-1589-0-1	01/25/2017	02/10/2017	0-1	110
E-SB-1589	E-SB-1589-1-2	01/25/2017	02/09/2017	1-2	4500

Table 2-1

Summary of Total Aroclor Concentrations in Surface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
E-SB-1593	E-SB-1593-0-1	01/25/2017	02/10/2017	0-1	2.1
E-SB-1593	E-SB-1593-1-2	01/25/2017	02/10/2017	1-2	0.097
E-SB-1594	E-SB-1594-0-1	01/25/2017	02/10/2017	0-1	460
E-SB-1594	E-SB-1594-1-2	01/25/2017	02/10/2017	1-2	5.2
E-SB-1595	E-SB-1595-0-1	01/31/2017	02/13/2017	0-1	0 U
E-SB-1595	E-SB-1595-1-2	01/31/2017	02/13/2017	1-2	0.023
E-SB-1596	E-SB-1596-0-1	02/06/2017	02/18/2017	0-1	13
E-SB-1596	E-SB-1596-1-2	02/06/2017	02/18/2017	1-2	110
E-SB-1602	E-SB-1602-0-1	01/12/2017	01/19/2017	0-1	0.99
E-SB-1602	E-SB-1602-1-2	01/12/2017	01/19/2017	1-2	0.13
E-SB-1603	E-SB-1603-0-1	01/12/2017	01/19/2017	0-1	12
E-SB-1603	E-SB-1603-1-2	01/12/2017	01/19/2017	1-2	0.81
E-SB-1626	E-SB-1626-0-1	01/24/2017	01/31/2017	0-1	0.63
E-SB-1626	E-SB-1626-1-2	01/24/2017	01/31/2017	1-2	46
E-SB-1627	E-SB-1627-1-2	01/24/2017	01/31/2017	1-2	0.039
E-SB-1628	E-SB-1628-0-1	01/23/2017	01/27/2017	0-1	4.1
E-SB-1628	E-SB-1628-1-2	01/23/2017	01/27/2017	1-2	6.5
E-SB-1629	E-SB-1629-0-1	01/23/2017	01/27/2017	0-1	7.1
E-SB-1629	E-SB-1629-1-2	01/23/2017	01/27/2017	1-2	0.036
E-SB-1630	E-SB-1630-0-1	01/23/2017	01/27/2017	0-1	38
E-SB-1630	E-SB-1630-1-2	01/23/2017	01/27/2017	1-2	22
E-SB-1631	E-SB-1631-0-1	01/23/2017	01/27/2017	0-1	2.9
E-SB-1631	E-SB-1631-1-2	01/23/2017	01/27/2017	1-2	4.8
E-SB-1632	E-SB-1632-0-1	01/19/2017	01/27/2017	0-1	12
E-SB-1632	E-SB-1632-1-2	01/19/2017	01/28/2017	1-2	7.6
E-SB-1633	E-SB-1633-0-1	01/23/2017	01/27/2017	0-1	19
E-SB-1633	E-SB-1633-1-2	01/23/2017	01/27/2017	1-2	7.7
E-SB-1661	E-SB-1661-0-1	01/24/2017	01/31/2017	0-1	5.1
E-SB-1661	E-SB-1661-1-2	01/24/2017	01/31/2017	1-2	0.027
E-SB-1662	E-SB-1662-0-1	01/24/2017	01/31/2017	0-1	6.6
E-SB-1662	E-SB-1662-1-2	01/24/2017	01/31/2017	1-2	0.3
E-SB-1663	E-SB-1663-0-1	02/01/2017	02/15/2017	0-1	0 U
E-SB-1663	E-SB-1663-1-2	02/01/2017	02/15/2017	1-2	0 U
E-SB-1664	E-SB-1664-0-1	01/31/2017	02/15/2017	0-1	0.022
E-SB-1664	E-SB-1664-1-2	01/31/2017	02/15/2017	1-2	0.031
E-SB-1665	E-SB-1665-0-1	01/31/2017	02/15/2017	0-1	5.3
E-SB-1665	E-SB-1665-1-2	01/31/2017	02/16/2017	1-2	0.098
E-SB-1666	E-SB-1666-0-1	01/23/2017	01/27/2017	0-1	69
E-SB-1666	E-SB-1666-1-2	01/23/2017	01/27/2017	1-2	0.09
E-SB-1667	E-SB-1667-0-1	01/23/2017	01/27/2017	0-1	0.42
E-SB-1667	E-SB-1667-1-2	01/23/2017	01/27/2017	1-2	0.021
E-SB-1668	E-SB-1668-0-1	01/23/2017	01/27/2017	0-1	0 U

Table 2-1

Summary of Total Aroclor Concentrations in Surface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
E-SB-1668	E-SB-1668-1-2	01/23/2017	01/27/2017	1-2	0 U
E-SB-1669	E-SB-1669-0-1	01/23/2017	01/27/2017	0-1	0.28
E-SB-1669	E-SB-1669-1-2	01/23/2017	01/27/2017	1-2	0.028
E-SB-1670	E-SB-1670-0-1	01/23/2017	01/27/2017	0-1	0.26
E-SB-1670	E-SB-1670-1-2	01/23/2017	01/27/2017	1-2	0 U
E-SB-1671	E-SB-1671-0-1	01/23/2017	01/27/2017	0-1	0 U
E-SB-1671	E-SB-1671-1-2	01/23/2017	01/27/2017	1-2	0 U
E-SB-1672	E-SB-1672-0-1	01/24/2017	01/31/2017	0-1	0.038
E-SB-1672	E-SB-1672-1-2	01/24/2017	01/31/2017	1-2	0 U
E-SB-1673	E-SB-1673-0-1	01/24/2017	01/31/2017	0-1	0 U
E-SB-1673	E-SB-1673-1-2	01/24/2017	01/31/2017	1-2	0 U
E-SB-1674	E-SB-1674-0-1	01/24/2017	01/31/2017	0-1	0.14
E-SB-1674	E-SB-1674-1-2	01/24/2017	01/31/2017	1-2	0.055
E-SB-1675	E-SB-1675-0-1	01/24/2017	01/31/2017	0-1	4.6
E-SB-1675	E-SB-1675-1-2	01/24/2017	01/31/2017	1-2	8.1
E-SB-1676	E-SB-1676-0-1	01/24/2017	01/31/2017	0-1	0.74
E-SB-1676	E-SB-1676-1-2	01/24/2017	01/31/2017	1-2	0.034
E-SB-1677	E-SB-1677-0-1	01/31/2017	02/15/2017	0-1	690
E-SB-1677	E-SB-1677-1-2	01/31/2017	02/15/2017	1-2	200
E-SB-1678	E-SB-1678-0-1	01/19/2017	01/31/2017	0-1	2.9
E-SB-1678	E-SB-1678-1-2	01/19/2017	01/27/2017	1-2	0.42
E-SB-1679	E-SB-1679-0-1	01/19/2017	01/27/2017	0-1	0.036
E-SB-1679	E-SB-1679-1-2	01/19/2017	01/27/2017	1-2	0.23
E-SB-1680	E-SB-1680-0-1	01/31/2017	02/15/2017	0-1	27
E-SB-1680	E-SB-1680-1-2	01/31/2017	02/15/2017	1-2	0.079
E-SB-1681	E-SB-1681-0-1	01/19/2017	01/27/2017	0-1	5.4
E-SB-1681	E-SB-1681-1-2	01/19/2017	01/27/2017	1-2	1.5
E-SB-1682	E-SB-1682-0-1	01/19/2017	01/27/2017	0-1	0.92
E-SB-1682	E-SB-1682-1-2	01/19/2017	01/27/2017	1-2	0.025
E-SB-1683	E-SB-1683-0-1	01/19/2017	01/27/2017	0-1	3
E-SB-1683	E-SB-1683-1-2	01/19/2017	01/27/2017	1-2	0 U
E-SB-1684	E-SB-1684-0-1	01/19/2017	01/27/2017	0-1	3.3
E-SB-1684	E-SB-1684-1-2	01/19/2017	01/27/2017	1-2	0.11
E-SB-1685	E-SB-1685-0-1	01/24/2017	01/31/2017	0-1	0.7
E-SB-1685	E-SB-1685-1-2	01/24/2017	01/31/2017	1-2	0 U
E-SB-1686	E-SB-1686-0-1	01/24/2017	01/31/2017	0-1	2.4
E-SB-1686	E-SB-1686-1-2	01/24/2017	01/31/2017	1-2	0 U
E-SB-1687	E-SB-1687-0-1	01/19/2017	01/27/2017	0-1	3.3
E-SB-1687	E-SB-1687-1-2	01/19/2017	01/27/2017	1-2	0 U
E-SB-1688	E-SB-1688-0-1	02/01/2017	02/16/2017	0-1	0 U
E-SB-1688	E-SB-1688-1-2	02/01/2017	02/16/2017	1-2	0 U
E-SB-1689	E-SB-1689-0-1	01/19/2017	01/27/2017	0-1	0.057

Table 2-1

Summary of Total Aroclor Concentrations in Surface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
E-SB-1689	E-SB-1689-1-2	01/19/2017	01/27/2017	1-2	0.14
E-SB-1690	E-SB-1690-0-1	02/01/2017	02/16/2017	0-1	0 U
E-SB-1690	E-SB-1690-1-2	02/01/2017	02/16/2017	1-2	0 U
E-SB-1691	E-SB-1691-0-1	02/10/2017	02/24/2017	0-1	0 U
E-SB-1691	E-SB-1691-0-1-D	02/10/2017	02/24/2017	0-1	0 U
E-SB-1691	E-SB-1691-1-2	02/10/2017	02/24/2017	1-2	0 U
E-SB-1692	E-SB-1692-0-1	02/01/2017	02/16/2017	0-1	0.061
E-SB-1692	E-SB-1692-1-2	02/01/2017	02/16/2017	1-2	0 U
E-SB-1693	E-SB-1693-0-1	02/10/2017	02/24/2017	0-1	0.91
E-SB-1693	E-SB-1693-1-2	02/10/2017	02/24/2017	1-2	0.025
E-SB-1694	E-SB-1694-0-1	02/10/2017	02/24/2017	0-1	0 U
E-SB-1694	E-SB-1694-1-2	02/10/2017	02/24/2017	1-2	0 U
E-SB-1695	E-SB-1695-0-1	02/10/2017	02/24/2017	0-1	0 U
E-SB-1695	E-SB-1695-1-2	02/10/2017	02/24/2017	1-2	0 U
E-SB-1696	E-SB-1696-0-1	02/01/2017	02/15/2017	0-1	0 U
E-SB-1696	E-SB-1696-1-2	02/01/2017	02/15/2017	1-2	0 U
E-SB-1697	E-SB-1697-0-1	02/01/2017	02/17/2017	0-1	2.8
E-SB-1697	E-SB-1697-1-2	02/01/2017	02/16/2017	1-2	0 U
E-SB-1698	E-SB-1698-0-1	02/01/2017	02/16/2017	0-1	0 U
E-SB-1698	E-SB-1698-1-2	02/01/2017	02/16/2017	1-2	0 U
E-SB-1699	E-SB-1699-0-1	02/01/2017	02/16/2017	0-1	9.7
E-SB-1699	E-SB-1699-1-2	02/01/2017	02/16/2017	1-2	0 U
E-SB-1713	E-SB-1713-0-1	01/25/2017	02/10/2017	0-1	81
E-SB-1713	E-SB-1713-1-2	01/25/2017	02/10/2017	1-2	790
E-SB-1714	E-SB-1714-0-1	02/07/2017	02/24/2017	0-1	0.033
E-SB-1714	E-SB-1714-1-2	02/07/2017	02/24/2017	1-2	0.03
E-SB-1715	E-SB-1715-0-1	02/07/2017	02/23/2017	0-1	0.19
E-SB-1715	E-SB-1715-1-2	02/07/2017	02/23/2017	1-2	0.034
E-SB-1716	E-SB-1716-0-1	01/25/2017	02/09/2017	0-1	2.7
E-SB-1716	E-SB-1716-1-2	01/25/2017	02/10/2017	1-2	0 U
E-SB-1717	E-SB-1717-0-1	02/07/2017	02/23/2017	0-1	0.19
E-SB-1717	E-SB-1717-1-2	02/07/2017	02/23/2017	1-2	0.051
E-SB-1720	E-SB-1720-0-1	11/10/2017	11/25/2017	0-1	43
E-SB-1722	E-SB-1722-0-1	11/12/2017	11/28/2017	0-1	25
E-SB-1722	E-SB-1722-1-2	11/12/2017	11/28/2017	1-2	15
E-SB-1723	E-SB-1723-0-1	11/11/2017	11/25/2017	0-1	7.9
E-SB-1729	E-SB-1729-0-1	11/09/2017	11/21/2017	0-1	0.032
E-SB-1729	E-SB-1729-1-2	11/09/2017	11/21/2017	1-2	0 U
E-SB-1738	E-SB-1738-0-1	11/10/2017	11/25/2017	0-1	68
E-SB-1738	E-SB-1738-1-2	11/10/2017	11/25/2017	1-2	43
E-SB-1742	E-SB-1742-0-1	11/12/2017	11/28/2017	0-1	12
E-SB-1742	E-SB-1742-1-2	11/12/2017	11/28/2017	1-2	2

Table 2-1

Summary of Total Aroclor Concentrations in Surface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
E-SB-1743	E-SB-1743-0-1	11/12/2017	11/28/2017	0-1	26
E-SB-1743	E-SB-1743-1-2	11/12/2017	11/28/2017	1-2	35
E-SB-1744	E-SB-1744-0-1	11/12/2017	11/24/2017	0-1	930
E-SB-1744	E-SB-1744-1-2	11/12/2017	11/24/2017	1-2	39
E-SB-1745	E-SB-1745-0-1	11/12/2017	11/28/2017	0-1	3.7
E-SB-1745	E-SB-1745-1-2	11/12/2017	11/28/2017	1-2	12
E-SB-1746	E-SB-1746-0-1	11/12/2017	11/28/2017	0-1	1.1
E-SB-1746	E-SB-1746-1-2	11/12/2017	11/28/2017	1-2	0.25
E-SB-1748	E-SB-1748-0-1	11/12/2017	11/27/2017	0-1	43
E-SB-1748	E-SB-1748-1-2	11/12/2017	11/28/2017	1-2	25
E-SB-1749	E-SB-1749-0-1	11/12/2017	11/27/2017	0-1	9.3
E-SB-1749	E-SB-1749-1-2	11/12/2017	11/27/2017	1-2	39
E-SB-1751	E-SB-1751-0-2	11/12/2017	11/27/2017	0-2	3.9
E-SB-1754	E-SB-1754-0-2	11/12/2017	11/27/2017	0-2	59
E-SB-1783	E-SB-1783-00-01	11/06/2017	11/16/2017	0-1	0.023
E-SB-1784	E-SB-1784-00-01	11/06/2017	11/16/2017	0-1	0.48
E-SB-1785	E-SB-1785-00-01	11/06/2017	11/16/2017	0-1	0.19
E-SB-1786	E-SB-1786-00-01	11/06/2017	11/16/2017	0-1	0.048
E-SB-1787	E-SB-1787-00-01	11/06/2017	11/16/2017	0-1	0.44
E-SB-1788	E-SB-1788-00-01	11/06/2017	11/16/2017	0-1	0 U
E-SB-1789	E-SB-1789-00-01	11/06/2017	11/16/2017	0-1	0.085
E-SB-1790	E-SB-1790-00-01	11/06/2017	11/16/2017	0-1	0 U
SB-818	E-SB-818-SS	09/15/2010	09/24/2010	0-1	0 U
SB-819	E-SB-819-SS	09/15/2010	09/24/2010	0-1	0 U
SB-820	E-SB-820-SS	09/15/2010	09/24/2010	0-1	0 U
SB-821	E-SB-821-SS	09/16/2010	09/29/2010	0-1	0.021
SB-822	E-SB-822-SS	09/15/2010	09/28/2010	0-1	0 U
SB-823	E-SB-823-SS	09/15/2010	09/28/2010	0-1	0.038
SB-824	E-SB-824-SS	09/15/2010	09/24/2010	0-1	0 U
SB-825	E-SB-825-SS	09/13/2010	09/21/2010	0-1	0 U
SB-827	E-SB-827-SS	09/16/2010	09/29/2010	0-1	0.034
SB-828	E-SB-828-SS	09/16/2010	09/30/2010	0-1	0.035
SB-829	E-SB-829-SS	09/17/2010	09/30/2010	0-1	0 U
SB-830	E-SB-830-SS	09/14/2010	09/25/2010	0-1	0 U
SB-832	E-SB-832-SS	09/17/2010	09/29/2010	0-1	0.69
SB-833	E-SB-833-SS	09/16/2010	09/28/2010	0-1	0 U
SB-833A	E-SB-833A-02	10/12/2010	10/20/2010	2-2	0.22
SB-833B	E-SB-833B-02	10/12/2010	10/20/2010	2-2	1.7
SB-833C	E-SB-833C-02	10/12/2010	10/21/2010	2-2	0.082
SB-833D	E-SB-833D-02	10/12/2010	10/21/2010	2-2	0 U
SB-833E	E-SB-833E-02	10/12/2010	10/21/2010	2-2	360
SB-833F	E-SB-833F-02	10/12/2010	10/21/2010	2-2	25

Table 2-1

Summary of Total Aroclor Concentrations in Surface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
SB-833G	E-SB-833G-02	10/12/2010	10/21/2010	2-2	0.057
SB-833H	E-SB-833H-02	10/12/2010	10/21/2010	2-2	0.023
SB-833J	E-SB-833J-02	10/13/2010	10/21/2010	2-2	3
SB-833K	E-SB-833K-02	10/13/2010	10/22/2010	2-2	680
SB-833L	E-SB-833L-02	10/13/2010	10/22/2010	2-2	0.026
SB-833M	E-SB-833M-02	10/13/2010	10/22/2010	2-2	1.3
SB-833N	E-SB-833N-02	10/14/2010	10/25/2010	2-2	0.031
SB-834	E-SB-834-SS	09/16/2010	09/28/2010	0-1	0 U
SB-835	E-SB-835-SS	09/17/2010	09/30/2010	0-1	0.91
SB-836	E-SB-836-SS	09/17/2010	10/01/2010	0-1	0.13
SB-837	E-SB-837-SS	09/17/2010	09/30/2010	0-1	0.026
SB-839	E-SB-839-SS	09/14/2010	09/25/2010	0-1	41
SB-840	E-SB-840-SS	09/14/2010	09/23/2010	0-1	0.12
SB-841	E-SB-841-SS	09/14/2010	09/23/2010	0-1	25
SB-842	E-SB-842-SS	09/13/2010	09/22/2010	0-1	0 U
SB-844	E-SB-844-SS	09/14/2010	09/25/2010	0-1	2.3
SB-845	E-SB-845-SS	09/13/2010	09/22/2010	0-1	37
SB-846	E-SB-846-SS	09/13/2010	09/23/2010	0-1	0.053
SB-848	E-SB-848-04	07/11/2011	07/12/2011	0-4	0.0087
SB-849	E-SB-849-04	07/11/2011	07/12/2011	0-4	0 U
SB-851	E-SB-851-04	07/13/2011	07/15/2011	0-2.5	0 U
SB-852	E-SB-852-01	07/13/2011	07/15/2011	0-1	3300
SB-853	E-SB-853-0-4	07/14/2011	07/16/2011	0-2.5	0.97
SB-854	E-SB-854-0-4	07/14/2011	07/17/2011	0-2.5	9.1
SB-855	E-SB-855-0-4	07/14/2011	07/16/2011	0-3.5	0.056
SB-856	E-SB-856-04	07/13/2011	07/14/2011	0-2.5	0.54
SB-857	E-SB-857-04	07/13/2011	07/15/2011	0-2.5	0 U
SB-858	E-SB-858-04	07/12/2011	07/14/2011	0-2.5	0 U
SB-859	E-SB-859-04	07/12/2011	07/14/2011	0-2.5	0 U
SB-860	E-SB-860-SB-0.0-0	08/04/2011	08/06/2011	0-0.5	5.9
SB-860	E-SB-860-SB-0.5-2	08/04/2011	08/06/2011	0.5-2	0.23
SB-861	E-SB-861-SB-0.0-0	08/04/2011	08/08/2011	0-0.5	400
SB-861	E-SB-861-SB-0.0-0	08/04/2011	08/08/2011	0-0.5	680
SB-862	E-SB-862-SB-0.0-0	08/04/2011	08/08/2011	0-0.5	880
SB-862	E-SB-862-SB-0.5-2	08/04/2011	08/06/2011	0.5-2	18
SB-863	E-SB-863-SB-0.0-0	08/04/2011	08/06/2011	0-0.5	1.6
SB-863	E-SB-863-SB-0.5-2	08/04/2011	08/06/2011	0.5-2	0.58
SB-864	E-SB-864-SB-0.0-0	08/04/2011	08/08/2011	0-0.5	1100
SB-864	E-SB-864-SB-0.5-2	08/04/2011	08/06/2011	0.5-2	2.2
SB-865	E-SB-865-SB-0.0-0	08/04/2011	08/06/2011	0-0.5	17
SB-865	E-SB-865-SB-0.5-2	08/04/2011	08/06/2011	0.5-2	0.93
SB-866	E-SB-866-SB-0.0-0	08/05/2011	08/09/2011	0-0.5	1.9

Table 2-1

Summary of Total Aroclor Concentrations in Surface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
SB-866	E-SB-866-SB-0.5-2	08/05/2011	08/09/2011	0.5-2	0.084
SB-867	E-SB-867-SB-0.0-0	08/05/2011	08/09/2011	0-0.5	7.7
SB-867	E-SB-867-SB-0.5-2	08/05/2011	08/09/2011	0.5-2	0.28
SB-867	E-SB-867-SB-0.5-2	08/05/2011	08/09/2011	0.5-2	0.29
SB-868	E-SB-868-SB-0.0-0	08/05/2011	08/09/2011	0-0.5	110
SB-868	E-SB-868-SB-0.0-0	08/05/2011	08/10/2011	0-0.5	450
SB-868	E-SB-868-SB-0.5-2	08/05/2011	08/09/2011	0.5-2	0.86
SB-869	E-SB-869-SB-0.0-0	08/05/2011	08/09/2011	0-0.5	170
SB-869	E-SB-869-SB-0.5-2	08/05/2011	08/09/2011	0.5-2	1.6
SB-870	E-SB-870-SB-0.0-0	08/05/2011	08/09/2011	0-0.5	480
SB-870	E-SB-870-SB-0.5-2	08/05/2011	08/09/2011	0.5-2	3.1
SB-871	E-SB-871-SB-0.0-0	08/05/2011	08/09/2011	0-0.5	75
SB-871	E-SB-871-SB-0.5-2	08/05/2011	08/09/2011	0.5-2	3.7
E-SB-893	E-SB-893-0-2	05/30/2012	06/14/2012	0-2	1.6
E-SB-894	E-SB-894-0-2	05/30/2012	06/14/2012	0-2	2.8
E-SB-899	E-SB-899-0.7-2	05/29/2012	06/07/2012	0.7-2	0 U
E-SB-900	E-SB-900-0-2	05/31/2012	06/13/2012	0-2	0.79
E-SB-901	E-SB-901-0-2	05/31/2012	06/12/2012	0-2	0 U
E-SB-902	E-SB-902-0-2	05/30/2012	06/12/2012	0-2	0.037
E-SB-903	E-SB-903-0-2	05/31/2012	06/12/2012	0-2	0 U
E-SB-904	E-SB-904-0-2	05/31/2012	06/13/2012	0-2	0.086
E-SB-905	E-SB-905-0-2	05/31/2012	06/12/2012	0-2	0 U
E-SB-908	E-SB-908-0-2	05/31/2012	06/12/2012	0-2	0 U
E-SB-910	E-SB-910-0-2	05/31/2012	06/12/2012	0-2	0 U
E-SB-955	E-SB-955-0-0.5	06/29/2012	07/09/2012	0-0.5	7.1
E-SB-955	E-SB-955-0.5-2	06/29/2012	07/09/2012	0.5-2	0.54
E-SB-956	E-SB-956-0-0.5	06/28/2012	07/03/2012	0-0.5	22
E-SB-956	E-SB-956-0.5-2	06/28/2012	07/03/2012	0.5-2	0.13
E-SB-957	E-SB-957-0-0.5	06/28/2012	07/03/2012	0-0.5	39
E-SB-957	E-SB-957-0.5-2	06/28/2012	07/03/2012	0.5-2	2.2
E-SB-958	E-SB-958-0-0.5	06/28/2012	07/03/2012	0-0.5	15
E-SB-958	E-SB-958-0.5-2	06/28/2012	07/03/2012	0.5-2	22
E-SB-959	E-SB-959-0-0.5	06/28/2012	07/03/2012	0-0.5	0.74
E-SB-959	E-SB-959-0.5-2	06/28/2012	07/03/2012	0.5-2	0.029
E-SB-960	E-SB-960-1-2	06/28/2012	07/03/2012	1-2	0 U
E-SB-961	E-SB-961-1-2	06/28/2012	07/03/2012	1-2	0 U
E-SB-962	E-SB-962-1-2	06/28/2012	07/03/2012	1-2	0 U
E-SB-968	E-SB-968-0-0.5	06/27/2012	07/01/2012	0-0.5	0 U
E-SB-968	E-SB-968-0.5-2	06/27/2012	07/01/2012	0.5-2	0 U
E-SB-969	E-SB-969-0.5-2	06/27/2012	07/01/2012	0.5-2	0 U
E-SB-970	E-SB-970-0.5-2	06/27/2012	07/01/2012	0.5-2	0 U
E-SB-971	E-SB-971-0.5-2	06/27/2012	07/01/2012	0.5-2	0 U

Table 2-1

Summary of Total Aroclor Concentrations in Surface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
E-SB-972	E-SB-972-0-0.5	06/29/2012	07/09/2012	0-0.5	0.72
E-SB-972	E-SB-972-0.5-2	06/29/2012	07/06/2012	0.5-2	0 U
E-SB-973	E-SB-973-0-0.5	06/29/2012	07/09/2012	0-0.5	1.3
E-SB-973	E-SB-973-0.5-2	06/29/2012	07/06/2012	0.5-2	0.022
E-SB-974	E-SB-974-0-0.5	06/29/2012	07/06/2012	0-0.5	320
E-SB-974	E-SB-974-0.5-2	06/29/2012	07/06/2012	0.5-2	0.039
E-SB-975	E-SB-975-0-0.5	06/29/2012	07/06/2012	0-0.5	87
E-SB-975	E-SB-975-0.5-2	06/29/2012	07/06/2012	0.5-2	7.6
E-SB-976	E-SB-976-0-0.5	06/29/2012	07/06/2012	0-0.5	35
E-SB-976	E-SB-976-0.5-2	06/29/2012	07/06/2012	0.5-2	0.21
E-SB-977	E-SB-977-0-0.5	06/29/2012	07/06/2012	0-0.5	27
E-SB-977	E-SB-977-0.5-2	06/29/2012	07/06/2012	0.5-2	0 U
E-SB-978	E-SB-978-0-0.5	06/29/2012	07/06/2012	0-0.5	136
E-SB-978	E-SB-978-0.5-2	06/29/2012	07/06/2012	0.5-2	16
E-SB-979	E-SB-979-0-0.5	06/28/2012	07/03/2012	0-0.5	55
E-SB-979	E-SB-979-0.5-2	06/28/2012	07/03/2012	0.5-2	0.032
E-SB-980	E-SB-980-0-0.5	06/28/2012	07/03/2012	0-0.5	800
E-SB-980	E-SB-980-0.5-2	06/28/2012	07/03/2012	0.5-2	0.73
E-SB-981	E-SB-981-0-0.5	06/28/2012	07/03/2012	0-0.5	110
E-SB-981	E-SB-981-0.5-2	06/28/2012	07/03/2012	0.5-2	720
E-SB-983	E-SB-983-0-2	07/19/2012	08/01/2012	0-2	0.081
E-SB-984	E-SB-984-0-2	07/24/2012	08/04/2012	0-2	0.92
E-SB-984	E-SB-984-0.5-2	04/10/2013	04/24/2013	0.5-2	990
E-SB-985	E-SB-985-0.5-2	04/10/2013	04/24/2013	0.5-2	0.24
E-SB-986	E-SB-986-0.5-2	04/10/2013	04/24/2013	0.5-2	0.41
E-SB-988	E-SB-988-0.5-2	04/11/2013	04/26/2013	0.5-2	3.7
E-SB-SUMP3	E-SB-SUMP3-01	02/08/2017	02/23/2017	NA	8500
E-SB-SUMP3	E-SB-SUMP3-02	02/08/2017	02/23/2017	NA	14000
E-SB-984	E-SS-984-0-0.5	04/10/2013	04/24/2013	0-0.5	0.74
E-SB-985	E-SS-985-0-0.5	04/10/2013	04/25/2013	0-0.5	3
E-SB-986	E-SS-986-0-0.5	04/10/2013	04/24/2013	0-0.5	2
E-SB-988	E-SS-988-0-0.5	04/11/2013	04/26/2013	0-0.5	80
E-VB-01	E-VB-1-070213-03	07/02/2013	07/15/2013	0-3	150
E-VB-10	E-VB-10-072913-0	07/29/2013	08/05/2013	0-3	0.058
E-VB-11	E-VB-11-072913-0	07/29/2013	08/05/2013	0-3	1.4
E-VB-12	E-VB-12-072913-0	07/29/2013	08/05/2013	0-3	0.35
E-VB-13	E-VB-13-072913-0	07/29/2013	08/05/2013	0-3	0.29
E-VB-13	E-VB-13-072913-0	07/29/2013	08/05/2013	0-3	0.39
E-VB-02	E-VB-2-070213-03	07/02/2013	07/15/2013	0-3	15
E-VB-03	E-VB-3-070213-03	07/02/2013	07/16/2013	0-3	0.31
E-VB-04	E-VB-4-070213-03	07/02/2013	07/15/2013	0-3	260
E-VB-05	E-VB-5-070213-02	07/02/2013	07/15/2013	0-2	0.62

Table 2-1

Summary of Total Aroclor Concentrations in Surface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
E-VB-06	E-VB-6-070213-02	07/02/2013	07/15/2013	0-2	0 U
E-VB-07	E-VB-7-072913-0-	07/29/2013	08/05/2013	0-3	0.22
E-VB-08	E-VB-8-072913-0-	07/29/2013	08/05/2013	0-3	0.036
E-VB-09	E-VB-9-072913-0-	07/29/2013	08/05/2013	0-3	3.4
E-VS-01	E-VS-1-072913-0-	07/29/2013	08/05/2013	0-1.5	0 U
E-VS-02	E-VS-2-072913-0-	07/29/2013	08/05/2013	0-1.5	0 U
E-VS-03	E-VS-3-072913-0-	07/29/2013	08/05/2013	0-1.5	0.14
E-VS-04	E-VS-4-072913-0-	07/29/2013	08/05/2013	0-1.5	0.086
E-VS-05	E-VS-5-072913-0-	07/29/2013	08/05/2013	0-1.5	0 U
E-VS-06	E-VS-6-072913-0-	07/29/2013	08/05/2013	0-1.5	0 U
E-VS-07	E-VS-7-072913-0-	07/29/2013	08/05/2013	0-1.5	0 U
E-VS-08	E-VS-8-081913	08/19/2013	09/04/2013	0-1.5	1.8
EMANA	EMANA-030316	03/03/2016	03/10/2016	1.5-1.5	0.38
E-MH09	MH-09-091918	09/19/2018	09/28/2018	NA	140
E-MH09	MH-09-091918-D	09/19/2018	09/28/2018	NA	190
E-MH09	MH-09-101317	10/13/2017	10/19/2017	NA	100
E-MH09	MH-09-101317-D	10/13/2017	10/19/2017	NA	34
PUSTA	PUSTA-022916	02/29/2016	03/09/2016	1-1	530
PUSTB	PUSTB-030116	03/01/2016	03/10/2016	1.5-1.5	74
PUSTB2	PUSTB2-030116	03/01/2016	03/10/2016	1.5-1.5	13
PUSTB3	PUSTB3-030116	03/01/2016	03/10/2016	0.5-0.5	65
PUSTD	PUSTD-030816	03/08/2016	03/16/2016	2-2	0.99
E-SB-963	S-SB-963-0.5-2	06/27/2012	07/01/2012	0.5-2	0 U
E-SB-964	S-SB-964-0-0.5	06/27/2012	07/01/2012	0-0.5	0.65
E-SB-964	S-SB-964-0.5-2	06/27/2012	07/01/2012	0.5-2	0 U
SB-004	SB-04B-01	05/12/2005	05/17/2005	1-1	0 U
SB-001A	SB-1A-SS	09/21/2004	09/30/2004	0-1	0 U
SB-232	SB-232-01	05/12/2005	05/17/2005	1-1	0.094
SB-232	SB-232-SS	05/12/2005	05/17/2005	0-1	0.14
SB-233	SB-233-01	05/12/2005	05/19/2005	1-1	0 U
SB-233	SB-233-SS	05/12/2005	05/17/2005	0-1	0.112
SB-234	SB-234-01	05/12/2005	05/17/2005	1-1	0.0085
SB-234	SB-234-SS	05/12/2005	05/17/2005	0-1	1.07
SB-235	SB-235-01	05/12/2005	05/17/2005	1-1	0 U
SB-235	SB-235-SS	05/12/2005	05/17/2005	0-1	0.166
SB-002A	SB-2A-01	09/20/2004	09/23/2004	1-1	0 U
SB-345	SB-345-0001	11/02/2007	11/13/2007	0-1	0.26
SB-346	SB-346-0001	11/02/2007	11/13/2007	0-1	1.7
SB-347	SB-347-0001	11/02/2007	11/13/2007	0-1	7.1
SB-348	SB-348-0001	11/02/2007	11/13/2007	0-1	34
SB-349	SB-349-0001	11/02/2007	11/13/2007	0-1	24
SB-035	SB-35-SS	09/17/2004	09/23/2004	0-1	0 U

Table 2-1

Summary of Total Aroclor Concentrations in Surface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
SB-350	SB-350-0001	11/02/2007	11/13/2007	0-1	55
SB-351	SB-351-0001	11/02/2007	11/13/2007	0-1	21
SB-352	SB-352-0001	11/02/2007	11/13/2007	0-1	19
SB-353	SB-353-0001	11/02/2007	11/13/2007	0-1	1800
SB-354	SB-354-0001	11/02/2007	11/13/2007	0-1	400
SB-355	SB-355-0001	11/02/2007	11/13/2007	0-1	96
SB-356	SB-356-0001	11/02/2007	11/13/2007	0-1	25
SB-357	SB-357-0001	11/02/2007	11/13/2007	0-1	12
SB-358	SB-358-0001	11/02/2007	11/13/2007	0-1	27
SB-359	SB-359-0001	11/02/2007	11/13/2007	0-1	3.7
SB-036	SB-36-SS	09/17/2004	09/23/2004	0-1	0 U
SB-360	SB-360-0001	11/02/2007	11/13/2007	0-1	27
SB-361	SB-361-0001	11/02/2007	11/13/2007	0-1	140
SB-362	SB-362-0001	11/02/2007	11/13/2007	0-1	5
SB-363	SB-363-0001	11/02/2007	11/13/2007	0-1	24
SB-364	SB-364-0001	11/02/2007	11/13/2007	0-1	12
SB-003A	SB-3A-SS	09/20/2004	09/27/2004	0-1	0.35
SB-004A	SB-4A-SS	09/21/2004	10/01/2004	0-1	180
SB-500	SB-500-0001	11/27/2007	12/06/2007	0-1	0.047
SB-501	SB-501-0001	11/27/2007	12/08/2007	0-1	58
SB-502	SB-502-0001	11/27/2007	12/06/2007	0-1	1.2
SB-503	SB-503-0001	11/27/2007	12/06/2007	0-1	1.7
SB-503	SB-503-0001-D	11/27/2007	12/08/2007	0-1	0.12
SB-504	SB-504-0001	11/27/2007	12/08/2007	0-1	1.2
SB-505	SB-505-0001	11/27/2007	12/08/2007	0-1	99
SB-506	SB-506-0001	11/28/2007	12/08/2007	0-1	0.012
SB-506	SB-506-0001-D	11/28/2007	12/08/2007	0-1	0.011
SB-507	SB-507-0001	11/28/2007	12/08/2007	0-1	0 U
SB-508	SB-508-0001	11/28/2007	12/07/2007	0-1	0.015
SB-509	SB-509-0001	11/29/2007	12/07/2007	0-1	0 U
SB-510	SB-510-0001	11/28/2007	12/07/2007	0-1	0.031
SB-511	SB-511-0001	11/29/2007	12/07/2007	0-1	0.049
SB-512	SB-512-0001	11/29/2007	12/07/2007	0-1	0.03
SB-513	SB-513-0001	11/29/2007	12/07/2007	0-1	0.084
SB-514	SB-514-0001	11/29/2007	12/08/2007	0-1	0 U
SB-515	SB-515-0001	11/29/2007	12/08/2007	0-1	0.29
SB-516	SB-516-0001	11/30/2007	12/11/2007	0-1	0 U
SB-517	SB-517-0001	11/30/2007	12/11/2007	0-1	0 U
SB-518	SB-518-0001	11/30/2007	12/11/2007	0-1	0 U
SB-519	SB-519-0001	11/30/2007	12/11/2007	0-1	0 U
SB-520	SB-520-0001	11/30/2007	12/11/2007	0-1	0 U
SB-529	SB-529-0001	12/04/2007	12/12/2007	0-1	1500

Table 2-1

Summary of Total Aroclor Concentrations in Surface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
SB-530	SB-530-0001	12/04/2007	12/12/2007	0-1	690
SB-531	SB-531-0001	12/04/2007	12/12/2007	0-1	190
SB-532	SB-532-0001	12/04/2007	12/12/2007	0-1	2.1
SB-533	SB-533-0001	12/04/2007	12/12/2007	0-1	53
SB-534	SB-534-0001	12/04/2007	12/12/2007	0-1	49
SB-535	SB-535-0001	12/04/2007	12/12/2007	0-1	6
SB-536	SB-536-0001	12/04/2007	12/12/2007	0-1	77
SB-537	SB-537-0001	12/04/2007	12/12/2007	0-1	10
SB-538	SB-538-0001	12/04/2007	12/12/2007	0-1	4.5
SB-539	SB-539-0001	12/04/2007	12/12/2007	0-1	18
SB-540	SB-540-0001	12/04/2007	12/12/2007	0-1	1.8
SB-541	SB-541-2	10/23/2008	10/29/2008	2-2	0 U
SB-541	SB-541-SS0-0.5	10/23/2008	10/29/2008	0-0.5	0 U
SB-541	SB-541-SS0.5-1	10/23/2008	10/29/2008	0.5-1	0 U
SB-541A	SB-541A-SS[SJ]	11/11/2008	11/20/2008	0-1	0.49
SB-541A	SB-541A-SS0-0.5	11/11/2008	11/18/2008	0-0.5	0.021
SB-541A	SB-541A-SS0.5-1	11/11/2008	11/18/2008	0.5-1	0.019
SB-542	SB-542-2	10/23/2008	10/28/2008	2-2	0 U
SB-542	SB-542-SS0-0.5	10/23/2008	10/28/2008	0-0.5	0 U
SB-542	SB-542-SS0.5-1	10/23/2008	10/28/2008	0.5-1	0 U
SB-543	SB-543-2	10/23/2008	10/30/2008	2-2	0 U
SB-543	SB-543-SS0-0.5	10/23/2008	10/30/2008	0-0.5	0.0054
SB-543	SB-543-SS0.5-1	10/23/2008	10/30/2008	0.5-1	0 U
SB-543A	SB-543A-2	11/11/2008	11/19/2008	2-2	0 U
SB-543A	SB-543A-SS[SJ]	11/11/2008	11/20/2008	0-1	0.94
SB-543A	SB-543A-SS0-0.5	11/11/2008	11/19/2008	0-0.5	0.091
SB-543A	SB-543A-SS0.5-1	11/11/2008	11/19/2008	0.5-1	0.077
SB-544	SB-544-2	10/23/2008	10/29/2008	2-2	0 U
SB-544	SB-544-SS0-0.5	10/23/2008	10/29/2008	0-0.5	0 U
SB-544	SB-544-SS0.5-1	10/23/2008	10/29/2008	0.5-1	0 U
SB-544A	SB-544A-SS[SJ]	11/11/2008	11/18/2008	0-1	0.041
SB-544A	SB-544A-SS0-0.5	11/11/2008	11/18/2008	0-0.5	0.19
SB-544A	SB-544A-SS0.5-1	11/11/2008	11/18/2008	0.5-1	0.023
SB-545	SB-545-SS0-0.5	10/23/2008	10/27/2008	0-0.5	0 U
SB-545	SB-545-SS0.5-1	10/23/2008	10/27/2008	0.5-1	0 U
SB-546	SB-546-2	10/23/2008	10/29/2008	2-2	0 U
SB-546	SB-546-2-D	10/23/2008	10/29/2008	2-2	0 U
SB-546	SB-546-SS0-0.5	10/23/2008	10/29/2008	0-0.5	0 U
SB-546	SB-546-SS0-0.5-D	10/23/2008	10/31/2008	0-0.5	0 U
SB-546	SB-546-SS0.5-1	10/23/2008	10/29/2008	0.5-1	0 U
SB-546	SB-546-SS0.5-1-D	10/23/2008	10/31/2008	0.5-1	0 U
SB-546A	SB-546A-SS[SJ]	11/11/2008	11/19/2008	0-1	0.066

Table 2-1

Summary of Total Aroclor Concentrations in Surface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
SB-546A	SB-546A-SS0-0.5	11/11/2008	11/20/2008	0-0.5	9.6
SB-546A	SB-546A-SS0.5-1	11/11/2008	11/19/2008	0.5-1	0.14
SB-547	SB-547-2	10/21/2008	10/23/2008	2-2	0 U
SB-547	SB-547-SS0-0.5	10/21/2008	10/23/2008	0-0.5	0 U
SB-547	SB-547-SS0.5-1	10/21/2008	10/23/2008	0.5-1	0 U
SB-548	SB-548-2	10/23/2008	10/31/2008	2-2	0 U
SB-548	SB-548-2-D	10/23/2008	10/31/2008	2-2	0 U
SB-548	SB-548-SS0-0.5	10/23/2008	10/31/2008	0-0.5	0 U
SB-548	SB-548-SS0-0.5-D	10/23/2008	10/27/2008	0-0.5	0 U
SB-548	SB-548-SS0.5-1	10/23/2008	10/31/2008	0.5-1	0 U
SB-548	SB-548-SS0.5-1-D	10/23/2008	10/27/2008	0.5-1	0 U
SB-549	SB-549-2	10/23/2008	10/27/2008	2-2	0 U
SB-549	SB-549-2-D	10/23/2008	10/29/2008	2-2	0 U
SB-549	SB-549-SS0-0.5	10/23/2008	10/27/2008	0-0.5	0 U
SB-549	SB-549-SS0.5-1	10/23/2008	10/27/2008	0.5-1	0 U
SB-550	SB-550-2	10/23/2008	10/28/2008	2-2	0 U
SB-550	SB-550-SS0-0.5	10/23/2008	10/29/2008	0-0.5	0 U
SB-550	SB-550-SS0.5-1	10/23/2008	10/28/2008	0.5-1	0 U
SB-550A	SB-550A-2	11/11/2008	11/19/2008	2-2	0 U
SB-550A	SB-550A-SS[SJ]	11/11/2008	11/19/2008	0-1	0.061
SB-550A	SB-550A-SS0-0.5	11/11/2008	11/19/2008	0-0.5	0.012
SB-550A	SB-550A-SS0.5-1	11/11/2008	11/19/2008	0.5-1	0 U
SB-551	SB-551-2	10/23/2008	10/29/2008	2-2	0 U
SB-551	SB-551-SS0-0.5	10/23/2008	10/30/2008	0-0.5	0.0056
SB-551	SB-551-SS0.5-1	10/23/2008	10/29/2008	0.5-1	0 U
SB-552	SB-552-2	10/23/2008	10/30/2008	2-2	0 U
SB-552	SB-552-SS0-0.5	10/23/2008	10/30/2008	0-0.5	0 U
SB-552	SB-552-SS0.5-1	10/23/2008	10/30/2008	0.5-1	0.027
SB-553	SB-553-2	10/21/2008	10/23/2008	2-2	0 U
SB-553	SB-553-SS0.5-1	10/21/2008	10/23/2008	0.5-1	0 U
SB-554	SB-554-2	10/21/2008	10/23/2008	2-2	0 U
SB-554	SB-554-SS0.5-1	10/21/2008	10/23/2008	0.5-1	0 U
SB-556	SB-556-SS0-0.5	10/21/2008	10/25/2008	0-0.5	0.18
SB-556	SB-556-SS0.5-1	10/21/2008	10/25/2008	0.5-1	0 U
SB-557	SB-557-2	10/21/2008	10/24/2008	2-2	0 U
SB-557	SB-557-SS0-0.5	10/21/2008	10/24/2008	0-0.5	0.011
SB-557	SB-557-SS0.5-1	10/21/2008	10/24/2008	0.5-1	0 U
SB-558	SB-558-2	10/21/2008	10/27/2008	2-2	0.051
SB-558	SB-558-SS0-0.5	10/21/2008	10/28/2008	0-0.5	1.6
SB-558	SB-558-SS0.5-1	10/21/2008	10/24/2008	0.5-1	0 U
SB-559	SB-559-2	10/22/2008	10/25/2008	2-2	0 U
SB-559	SB-559-SS0-0.5	10/22/2008	10/25/2008	0-0.5	0.0052

Table 2-1

Summary of Total Aroclor Concentrations in Surface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
SB-559	SB-559-SS0.5-1	10/22/2008	10/25/2008	0.5-1	0 U
SB-560	SB-560-2	10/22/2008	10/25/2008	2-2	0 U
SB-560	SB-560-SS0-0.5	10/22/2008	10/25/2008	0-0.5	0.013
SB-560	SB-560-SS0.5-1	10/22/2008	10/25/2008	0.5-1	0 U
SB-563	SB-563-2	10/21/2008	10/24/2008	2-2	0 U
SB-563	SB-563-SS0-0.5	10/21/2008	10/24/2008	0-0.5	0.04
SB-563	SB-563-SS0.5-1	10/21/2008	10/24/2008	0.5-1	0 U
SB-564	SB-564-2	10/22/2008	10/25/2008	2-2	0 U
SB-564	SB-564-SS0-0.5	10/22/2008	10/25/2008	0-0.5	0.011
SB-564	SB-564-SS0.5-1	10/22/2008	10/25/2008	0.5-1	0 U
SB-565	SB-565-2	10/22/2008	10/28/2008	2-2	1
SB-565	SB-565-SS0-0.5	10/22/2008	10/25/2008	0-0.5	0.21
SB-565	SB-565-SS0.5-1	10/22/2008	10/25/2008	0.5-1	0.34
SB-566	SB-566-2	10/22/2008	10/25/2008	2-2	0 U
SB-566	SB-566-SS0-0.5	10/22/2008	10/28/2008	0-0.5	1.2
SB-566	SB-566-SS0.5-1	10/22/2008	10/25/2008	0.5-1	0.011
SB-567	SB-567-2	10/23/2008	10/30/2008	2-2	0.0043
SB-567	SB-567-SS0-0.5	10/23/2008	10/30/2008	0-0.5	0.025
SB-567	SB-567-SS0.5-1	10/23/2008	10/30/2008	0.5-1	0.0054
SB-568	SB-568-2	10/21/2008	10/25/2008	2-2	0 U
SB-568	SB-568-SS0-0.5	10/21/2008	10/28/2008	0-0.5	81
SB-568	SB-568-SS0.5-1	10/21/2008	10/27/2008	0.5-1	11
SB-569	SB-569-2	10/22/2008	10/25/2008	2-2	0 U
SB-570	SB-570-2	10/22/2008	10/25/2008	2-2	0 U
SB-571	SB-571-2	10/23/2008	10/31/2008	2-2	0 U
SB-571	SB-571-SS0-0.5	10/23/2008	10/31/2008	0-0.5	0 U
SB-571	SB-571-SS0.5-1	10/23/2008	10/31/2008	0.5-1	0 U
SB-005A	SB-5A-SS	09/17/2004	09/23/2004	0-1	0 U
SB-006A	SB-6A-SS	09/17/2004	09/23/2004	0-1	0 U
SUST1	SUST1-022916	02/29/2016	03/10/2016	1.5-1.5	150
TCC-SB-1277	TCC-SB-1277-0-1	07/22/2014	07/31/2014	0-1	0 U
TCC-SB-1277	TCC-SB-1277-1-2	07/22/2014	07/31/2014	1-2	0.089
TCC-SB-1278	TCC-SB-1278-0-1	07/22/2014	07/31/2014	0-1	0.005
TCC-SB-1278	TCC-SB-1278-1-2	07/22/2014	07/31/2014	1-2	0 U

Table 2-2

Summary of Total Aroclor Concentrations in Subsurface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
BOTT	BOTT-051616	05/16/2016	05/20/2016	8.5-8.5	0.18
BOTT	BOTT-051616-D	05/16/2016	05/20/2016	8.5-8.5	0.15
E-CB-11A	E-CB-11A-10-12	07/20/2012	08/03/2012	10-12	0.07
E-CB-11A	E-CB-11A-12-14	07/20/2012	07/28/2012	12-14	0 U
E-CB-11A	E-CB-11A-16-18	07/20/2012	08/03/2012	16-18	0 U
E-CB-11A	E-CB-11A-18-20	07/20/2012	07/28/2012	18-20	0 U
E-CB-11A	E-CB-11A-2-4	07/20/2012	08/03/2012	2-4	0 U
E-CB-11A	E-CB-11A-22-24	07/20/2012	07/28/2012	22-24	0 U
E-CB-11A	E-CB-11A-26-28	07/20/2012	07/28/2012	26-28	0 U
E-CB-11A	E-CB-11A-32-34	07/20/2012	07/28/2012	32-34	0 U
E-CB-11A	E-CB-11A-36-38	07/20/2012	08/03/2012	36-38	0 U
E-CB-11A	E-CB-11A-38-40	07/20/2012	07/28/2012	38-40	0 U
E-CB-11A	E-CB-11A-4-6	07/20/2012	08/03/2012	4-6	0.16
E-CB-11A	E-CB-11A-42-44	07/20/2012	07/28/2012	42-44	0 U
E-CB-11A	E-CB-11A-46-48	07/20/2012	08/03/2012	46-48	0 U
E-CB-11A	E-CB-11A-48-50	07/20/2012	08/03/2012	48-50	0 U
E-CB-11A	E-CB-11A-6-8	07/20/2012	08/03/2012	6-8	0.034
E-CB-11A	E-CB-11A-8-10	07/20/2012	08/03/2012	8-10	0.039
E-CB-11B	E-CB-11B-12-14	07/19/2012	07/31/2012	12-14	0 U
E-CB-11B	E-CB-11B-16-18	07/19/2012	08/02/2012	16-18	0 U
E-CB-11B	E-CB-11B-18-20	07/19/2012	07/31/2012	18-20	0 U
E-CB-11B	E-CB-11B-2-4	07/19/2012	08/02/2012	2-4	0 U
E-CB-11B	E-CB-11B-22-24	07/19/2012	07/31/2012	22-24	0 U
E-CB-11B	E-CB-11B-26-28	07/19/2012	08/02/2012	26-28	0 U
E-CB-11B	E-CB-11B-28-30	07/19/2012	07/31/2012	28-30	0 U
E-CB-11B	E-CB-11B-32-34	07/19/2012	07/31/2012	32-34	0 U
E-CB-11B	E-CB-11B-36-38	07/19/2012	08/02/2012	36-38	0 U
E-CB-11B	E-CB-11B-38-40	07/19/2012	08/02/2012	38-40	0 U
E-CB-11B	E-CB-11B-4-6	07/19/2012	08/02/2012	4-6	0 U
E-CB-11B	E-CB-11B-6-8	07/19/2012	08/02/2012	6-8	0 U
E-CB-11B	E-CB-11B-8-10	07/19/2012	07/31/2012	8-10	0 U
E-CB-13	E-CB-13-10-12	07/20/2012	07/28/2012	10-12	0 U
E-CB-13	E-CB-13-14-16	07/20/2012	07/28/2012	14-16	0 U
E-CB-13	E-CB-13-18-20	07/20/2012	07/28/2012	18-20	0 U
E-CB-13	E-CB-13-2-4	07/20/2012	08/02/2012	2-4	0 U
E-CB-13	E-CB-13-22-24	07/20/2012	08/03/2012	22-24	0 U
E-CB-13	E-CB-13-24-26	07/20/2012	07/28/2012	24-26	0 U
E-CB-13	E-CB-13-28-30	07/20/2012	07/28/2012	28-30	0 U
E-CB-13	E-CB-13-32-34	07/20/2012	07/28/2012	32-34	0 U
E-CB-13	E-CB-13-36-38	07/20/2012	08/03/2012	36-38	0 U
E-CB-13	E-CB-13-38-40	07/20/2012	08/03/2012	38-40	0 U
E-CB-13	E-CB-13-4-6	07/20/2012	08/02/2012	4-6	0 U

Table 2-2

Summary of Total Aroclor Concentrations in Subsurface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
E-CB-13	E-CB-13-40-42	07/20/2012	08/03/2012	40-42	0 U
E-CB-13	E-CB-13-42-44	07/20/2012	08/03/2012	42-44	0 U
E-CB-13	E-CB-13-44-46	07/20/2012	08/03/2012	44-46	0 U
E-CB-13	E-CB-13-6-8	07/20/2012	08/02/2012	6-8	0 U
E-CB-13	E-CB-13-8-10	07/20/2012	08/03/2012	8-10	0 U
E-CB-2	E-CB-2-10-12	07/19/2012	08/02/2012	10-12	0 U
E-CB-2	E-CB-2-12-14	07/19/2012	07/31/2012	12-14	0 U
E-CB-2	E-CB-2-16-18	07/19/2012	07/31/2012	16-18	0 U
E-CB-2	E-CB-2-2-4	07/19/2012	08/02/2012	2-4	0 U
E-CB-2	E-CB-2-22-24	07/19/2012	07/31/2012	22-24	0 U
E-CB-2	E-CB-2-26-28	07/19/2012	08/02/2012	26-28	0 U
E-CB-2	E-CB-2-28-30	07/19/2012	07/31/2012	28-30	0 U
E-CB-2	E-CB-2-32-34	07/19/2012	07/31/2012	32-34	0 U
E-CB-2	E-CB-2-36-38	07/19/2012	08/02/2012	36-38	0 U
E-CB-2	E-CB-2-38-40	07/19/2012	07/31/2012	38-40	0 U
E-CB-2	E-CB-2-4-6	07/19/2012	08/02/2012	4-6	0 U
E-CB-2	E-CB-2-42-44	07/19/2012	07/31/2012	42-44	0 U
E-CB-2	E-CB-2-46-48	07/19/2012	08/02/2012	46-48	0 U
E-CB-2	E-CB-2-48-50	07/19/2012	08/02/2012	48-50	0 U
E-CB-2	E-CB-2-6-8	07/19/2012	08/02/2012	6-8	0 U
E-CB-2	E-CB-2-8-10	07/19/2012	08/02/2012	8-10	0 U
E-SB-1000	E-SB-1000-2-3	04/12/2013	04/29/2013	2-3	0.14
E-SB-1005	E-SB-1005-2-3	04/12/2013	05/06/2013	2-3	12
E-SB-1006	E-SB-1006-2-3	04/15/2013	05/02/2013	2-3	0.027
E-SB-1007	E-SB-1007-2-3	04/15/2013	05/06/2013	2-3	0.052
E-SB-1023	E-SB-1023-05	10/03/2013	10/09/2013	5-5	0 U
E-SB-1024	E-SB-1024-05	10/03/2013	10/09/2013	5-5	0 U
E-SB-1024	E-SB-1024-08	10/03/2013	10/09/2013	8-8	0 U
E-SB-1024	E-SB-1024-12	10/03/2013	10/09/2013	12-12	0 U
E-SB-1025	E-SB-1025-05	10/03/2013	10/09/2013	5-5	0 U
E-SB-1026	E-SB-1026-03	10/02/2013	10/08/2013	3-3	0.14
E-SB-1026	E-SB-1026-05	10/02/2013	10/08/2013	5-5	0 U
E-SB-1027	E-SB-1027-05	10/02/2013	10/08/2013	5-5	0.025
E-SB-1027	E-SB-1027-07	10/02/2013	10/08/2013	7-7	0.11
E-SB-1027	E-SB-1027-08	10/02/2013	10/08/2013	8-8	0 U
E-SB-1027	E-SB-1027-12	10/02/2013	10/08/2013	12-12	0 U
E-SB-1028	E-SB-1028-08	10/02/2013	10/08/2013	8-8	0.36
E-SB-1028	E-SB-1028-09	10/02/2013	10/08/2013	9-9	0 U
E-SB-1029	E-SB-1029-05	10/02/2013	10/08/2013	5-5	0 U
E-SB-1029	E-SB-1029-08	10/02/2013	10/09/2013	8-8	0 U
E-SB-1029	E-SB-1029-10	10/02/2013	10/09/2013	10-10	0 U
E-SB-1029	E-SB-1029-12	10/02/2013	10/09/2013	12-12	0 U

Table 2-2

Summary of Total Aroclor Concentrations in Subsurface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
E-SB-1030	E-SB-1030-06	10/02/2013	10/09/2013	6-6	0.091
E-SB-1030	E-SB-1030-08	10/02/2013	10/09/2013	8-8	0 U
E-SB-1031	E-SB-1031-05	10/02/2013	10/08/2013	5-5	0 U
E-SB-1032	E-SB-1032-05	10/02/2013	10/08/2013	5-5	0 U
E-SB-1032	E-SB-1032-08	10/02/2013	10/08/2013	8-8	0 U
E-SB-1032	E-SB-1032-12	10/02/2013	10/08/2013	12-12	0 U
E-SB-1033	E-SB-1033-05	10/02/2013	10/08/2013	5-5	0 U
E-SB-1034	E-SB-1034-04	10/01/2013	10/08/2013	4-4	0 U
E-SB-1034	E-SB-1034-05	10/01/2013	10/08/2013	5-5	0 U
E-SB-1034	E-SB-1034-08	10/01/2013	10/08/2013	8-8	0 U
E-SB-1034	E-SB-1034-12	10/01/2013	10/08/2013	12-12	0 U
E-SB-1035	E-SB-1035-03	10/01/2013	10/08/2013	3-3	0.37
E-SB-1035	E-SB-1035-05	10/01/2013	10/08/2013	5-5	0 U
E-SB-1035	E-SB-1035-08	10/01/2013	10/08/2013	8-8	0 U
E-SB-1035	E-SB-1035-12	10/01/2013	10/08/2013	12-12	0 U
E-SB-1036	E-SB-1036-03	10/01/2013	10/08/2013	3-3	0 U
E-SB-1036	E-SB-1036-05	10/01/2013	10/08/2013	5-5	0 U
E-SB-1036	E-SB-1036-08	10/01/2013	10/08/2013	8-8	0 U
E-SB-1036	E-SB-1036-12	10/01/2013	10/08/2013	12-12	0 U
E-SB-1037	E-SB-1037-05	10/01/2013	10/08/2013	5-5	0 U
E-SB-1037	E-SB-1037-07	10/01/2013	10/08/2013	7-7	0 U
E-SB-1038	E-SB-1038-05	10/01/2013	10/08/2013	5-5	0 U
E-SB-1038	E-SB-1038-07	10/01/2013	10/08/2013	7-7	0 U
E-SB-1038	E-SB-1038-08	10/01/2013	10/08/2013	8-8	0 U
E-SB-1038	E-SB-1038-12	10/01/2013	10/08/2013	12-12	0 U
E-SB-1039	E-SB-1039-05	10/01/2013	10/08/2013	5-5	0 U
E-SB-1039	E-SB-1039-07	10/01/2013	10/08/2013	7-7	0 U
E-SB-1040	E-SB-1040-05	10/03/2013	10/11/2013	5-5	0 U
E-SB-1041	E-SB-1041-04	10/03/2013	10/09/2013	4-4	0.18
E-SB-1041	E-SB-1041-06	10/03/2013	10/09/2013	6-6	0 U
E-SB-1041	E-SB-1041-08	10/03/2013	10/09/2013	8-8	0 U
E-SB-1042	E-SB-1042-03	10/03/2013	10/11/2013	3-3	3.6
E-SB-1042	E-SB-1042-05	10/03/2013	10/09/2013	5-5	0.068
E-SB-1042	E-SB-1042-07	10/03/2013	10/09/2013	7-7	0 U
E-SB-1043	E-SB-1043-05	10/03/2013	10/18/2013	5-5	0 U
E-SB-113A	E-SB-113A-12-14	07/08/2013	07/18/2013	12-14	0 U
E-SB-113A	E-SB-113A-3-4	07/08/2013	07/18/2013	3-4	0 U
E-SB-113A	E-SB-113A-4-6	07/08/2013	07/18/2013	4-6	0 U
E-SB-114A	E-SB-114A-13-16	07/08/2013	07/18/2013	13-16	0 U
E-SB-114A	E-SB-114A-3-4	07/08/2013	07/18/2013	3-4	0 U
E-SB-114A	E-SB-114A-4-6	07/08/2013	07/18/2013	4-6	0 U
E-SB-1370	E-SB-1370-2-3	07/30/2014	08/12/2014	2-3	0.012

Table 2-2

Summary of Total Aroclor Concentrations in Subsurface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
E-SB-1370	E-SB-1370-3-4	07/30/2014	08/07/2014	3-4	0.029
E-SB-1370	E-SB-1370-4-5	07/30/2014	08/12/2014	4-5	0.29
E-SB-1370	E-SB-1370-5-6	07/30/2014	08/12/2014	5-6	0.083
E-SB-1370	E-SB-1370-6-7	07/30/2014	08/12/2014	6-7	0 U
E-SB-1370	E-SB-1370-7-8	07/30/2014	08/12/2014	7-8	0 U
E-SB-1371	E-SB-1371-2-3	07/30/2014	08/09/2014	2-3	0.016
E-SB-1371	E-SB-1371-3-4	07/30/2014	08/09/2014	3-4	0 U
E-SB-1371	E-SB-1371-4-5	07/30/2014	08/07/2014	4-5	0 U
E-SB-1371	E-SB-1371-5-6	07/30/2014	08/09/2014	5-6	0 U
E-SB-1371	E-SB-1371-6-7	07/30/2014	08/09/2014	6-7	0 U
E-SB-1371	E-SB-1371-7-8	07/30/2014	08/12/2014	7-8	0 U
E-SB-1372	E-SB-1372-2-3	07/30/2014	08/12/2014	2-3	0.13
E-SB-1372	E-SB-1372-3-4	07/30/2014	08/12/2014	3-4	0.16
E-SB-1372	E-SB-1372-4-5	07/30/2014	08/12/2014	4-5	1.8
E-SB-1372	E-SB-1372-5-6	07/30/2014	08/12/2014	5-6	0.064
E-SB-1372	E-SB-1372-6-7	07/30/2014	08/12/2014	6-7	0.0089
E-SB-1372	E-SB-1372-7-8	07/30/2014	08/12/2014	7-8	0 U
E-SB-1373	E-SB-1373-2-3	07/30/2014	08/12/2014	2-3	0.15
E-SB-1373	E-SB-1373-3-4	07/30/2014	08/12/2014	3-4	0 U
E-SB-1373	E-SB-1373-4-5	07/30/2014	08/12/2014	4-5	0 U
E-SB-1373	E-SB-1373-5-6	07/30/2014	08/12/2014	5-6	0 U
E-SB-1373	E-SB-1373-6-7	07/30/2014	08/12/2014	6-7	0.0059
E-SB-1373	E-SB-1373-7-8	07/30/2014	08/12/2014	7-8	0 U
E-SB-1374	E-SB-1374-2-3	07/30/2014	08/07/2014	2-3	31.3
E-SB-1374	E-SB-1374-3-4	07/30/2014	08/12/2014	3-4	0.015
E-SB-1374	E-SB-1374-4-5	07/30/2014	08/12/2014	4-5	0.029
E-SB-1374	E-SB-1374-5-6	07/30/2014	08/12/2014	5-6	0.018
E-SB-1374	E-SB-1374-6-7	07/30/2014	08/12/2014	6-7	0 U
E-SB-1374	E-SB-1374-7-8	07/30/2014	08/12/2014	7-8	0 U
E-SB-1375	E-SB-1375-3-4	07/30/2014	08/07/2014	3-4	1.35
E-SB-1375	E-SB-1375-4-5	07/30/2014	08/12/2014	4-5	0.53
E-SB-1375	E-SB-1375-5-6	07/30/2014	08/12/2014	5-6	84
E-SB-1375	E-SB-1375-6-7	07/30/2014	08/12/2014	6-7	8.46
E-SB-1375	E-SB-1375-7-8	07/30/2014	08/12/2014	7-8	0.063
E-SB-1376	E-SB-1376-3-4	07/30/2014	08/13/2014	3-4	0.37
E-SB-1376	E-SB-1376-4-5	07/30/2014	08/13/2014	4-5	0.67
E-SB-1376	E-SB-1376-5-6	07/30/2014	08/15/2014	5-6	0.62
E-SB-1376	E-SB-1376-6-7	07/30/2014	08/13/2014	6-7	1.1
E-SB-1376	E-SB-1376-7-8	07/30/2014	08/13/2014	7-8	0.033
E-SB-1377	E-SB-1377-3-4	07/30/2014	08/12/2014	3-4	5.4
E-SB-1377	E-SB-1377-4-5	07/30/2014	08/12/2014	4-5	0.081
E-SB-1377	E-SB-1377-5-6	07/30/2014	08/12/2014	5-6	0.033

Table 2-2

Summary of Total Aroclor Concentrations in Subsurface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
E-SB-1377	E-SB-1377-6-7	07/30/2014	08/13/2014	6-7	0 U
E-SB-1377	E-SB-1377-7-8	07/30/2014	08/13/2014	7-8	0.15
E-SB-1378	E-SB-1378-2-3	07/30/2014	08/13/2014	2-3	450
E-SB-1378	E-SB-1378-3-4	07/30/2014	08/13/2014	3-4	6.2
E-SB-1378	E-SB-1378-4-5	07/30/2014	08/13/2014	4-5	4.6
E-SB-1378	E-SB-1378-5-6	07/30/2014	08/08/2014	5-6	4.49
E-SB-1378	E-SB-1378-6-7	07/30/2014	08/13/2014	6-7	4.1
E-SB-1378	E-SB-1378-7-8	07/30/2014	08/13/2014	7-8	3
E-SB-1379	E-SB-1379-3-4	07/30/2014	08/12/2014	3-4	1.5
E-SB-1379	E-SB-1379-4-5	07/30/2014	08/12/2014	4-5	0.1
E-SB-1379	E-SB-1379-5-6	07/30/2014	08/12/2014	5-6	0.39
E-SB-1379	E-SB-1379-6-7	07/30/2014	08/12/2014	6-7	0.05
E-SB-1379	E-SB-1379-7-8	07/30/2014	08/12/2014	7-8	0 U
E-SB-1380	E-SB-1380-3-4	07/30/2014	08/07/2014	3-4	0.173
E-SB-1380	E-SB-1380-4-5	07/30/2014	08/12/2014	4-5	0.35
E-SB-1380	E-SB-1380-5-6	07/30/2014	08/12/2014	5-6	1.4
E-SB-1380	E-SB-1380-6-7	07/30/2014	08/12/2014	6-7	0.23
E-SB-1380	E-SB-1380-7-8	07/30/2014	08/12/2014	7-8	0.013
E-SB-1381	E-SB-1381-3-4	07/30/2014	08/12/2014	3-4	0.059
E-SB-1381	E-SB-1381-4-5	07/30/2014	08/12/2014	4-5	4.3
E-SB-1381	E-SB-1381-5-6	07/30/2014	08/12/2014	5-6	0.26
E-SB-1381	E-SB-1381-6-7	07/30/2014	08/12/2014	6-7	0.19
E-SB-1381	E-SB-1381-7-8	07/30/2014	08/07/2014	7-8	0.061
E-SB-1382	E-SB-1382-3-4	07/30/2014	08/12/2014	3-4	5.1
E-SB-1382	E-SB-1382-4-5	07/30/2014	08/12/2014	4-5	0.59
E-SB-1382	E-SB-1382-5-6	07/30/2014	08/12/2014	5-6	0.015
E-SB-1382	E-SB-1382-6-7	07/30/2014	08/12/2014	6-7	0 U
E-SB-1382	E-SB-1382-7-8	07/30/2014	08/12/2014	7-8	0 U
E-SB-1383	E-SB-1383-3-4	07/30/2014	08/12/2014	3-4	0.0076
E-SB-1383	E-SB-1383-4-5	07/30/2014	08/12/2014	4-5	0.075
E-SB-1383	E-SB-1383-5-6	07/30/2014	08/12/2014	5-6	0.0062
E-SB-1383	E-SB-1383-6-7	07/30/2014	08/12/2014	6-7	0 U
E-SB-1383	E-SB-1383-7-8	07/30/2014	08/12/2014	7-8	0.0067
E-SB-1384	E-SB-1384-3-4	07/30/2014	08/12/2014	3-4	8.1
E-SB-1384	E-SB-1384-4-5	07/30/2014	08/12/2014	4-5	0.026
E-SB-1384	E-SB-1384-5-6	07/30/2014	08/12/2014	5-6	0.0075
E-SB-1384	E-SB-1384-6-7	07/30/2014	08/12/2014	6-7	0 U
E-SB-1384	E-SB-1384-7-8	07/30/2014	08/12/2014	7-8	0 U
E-SB-1385	E-SB-1385-3-4	07/30/2014	08/07/2014	3-4	0 U
E-SB-1385	E-SB-1385-4-5	07/30/2014	08/12/2014	4-5	0.014
E-SB-1385	E-SB-1385-5-6	07/30/2014	08/12/2014	5-6	0.012
E-SB-1385	E-SB-1385-6-7	07/30/2014	08/12/2014	6-7	0.0086

Table 2-2

Summary of Total Aroclor Concentrations in Subsurface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
E-SB-1385	E-SB-1385-7-8	07/30/2014	08/12/2014	7-8	0.0091
E-SB-1398	E-SB-1398-2-4	11/13/2014	11/16/2014	2-4	0 U
E-SB-1398	E-SB-1398-4-8	11/13/2014	11/16/2014	4-8	0 U
E-SB-1399	E-SB-1399-2-4	11/13/2014	11/17/2014	2-4	7.2
E-SB-1399	E-SB-1399-4-8	11/13/2014	11/17/2014	4-8	3.9
E-SB-1439	E-SB-1439-2-4	03/30/2016	04/07/2016	2-4	0 U
E-SB-1439	E-SB-1439-4-6	03/30/2016	04/07/2016	4-6	0 U
E-SB-1439	E-SB-1439-6-8	03/30/2016	04/07/2016	6-8	0 U
E-SB-1440	E-SB-1440-10-12	03/30/2016	04/06/2016	10-12	0 U
E-SB-1440	E-SB-1440-12-14	03/30/2016	04/05/2016	12-14	0 U
E-SB-1440	E-SB-1440-14-16	03/30/2016	04/06/2016	14-16	0 U
E-SB-1440	E-SB-1440-2-4	03/30/2016	04/06/2016	2-4	0.012
E-SB-1440	E-SB-1440-4-6	03/30/2016	04/06/2016	4-6	0 U
E-SB-1440	E-SB-1440-6-8	03/30/2016	04/06/2016	6-8	0 U
E-SB-1440	E-SB-1440-8-10	03/30/2016	04/06/2016	8-10	0 U
E-SB-1441	E-SB-1441-2-4	03/30/2016	04/07/2016	2-4	0 U
E-SB-1441	E-SB-1441-4-6	03/30/2016	04/07/2016	4-6	0 U
E-SB-1441	E-SB-1441-4-6-D	03/30/2016	04/07/2016	4-6	0 U
E-SB-1441	E-SB-1441-6-8	03/30/2016	04/07/2016	6-8	0 U
E-SB-1442	E-SB-1442-2-4	03/30/2016	04/08/2016	2-4	0 U
E-SB-1442	E-SB-1442-4-6	03/30/2016	04/07/2016	4-6	0 U
E-SB-1442	E-SB-1442-6-8	03/30/2016	04/07/2016	6-8	0.016
E-SB-1443	E-SB-1443-2-4	03/30/2016	04/07/2016	2-4	0.021
E-SB-1443	E-SB-1443-4-6	03/30/2016	04/07/2016	4-6	0.021
E-SB-1443	E-SB-1443-6-8	03/30/2016	04/07/2016	6-8	0 U
E-SB-1444	E-SB-1444-2-4	03/30/2016	04/06/2016	2-4	0.27
E-SB-1444	E-SB-1444-4-6	03/30/2016	04/06/2016	4-6	0.62
E-SB-1444	E-SB-1444-6-8	03/30/2016	04/05/2016	6-8	0 U
E-SB-1444	E-SB-1444-6-8-D	03/30/2016	04/05/2016	6-8	0 U
E-SB-1445	E-SB-1445-2-4	03/30/2016	04/05/2016	2-4	0 U
E-SB-1445	E-SB-1445-4-6	03/30/2016	04/05/2016	4-6	0 U
E-SB-1445	E-SB-1445-6-8	03/30/2016	04/05/2016	6-8	0 U
E-SB-1446	E-SB-1446-2-4	03/30/2016	04/06/2016	2-4	0.037
E-SB-1446	E-SB-1446-4-6	03/30/2016	04/05/2016	4-6	0 U
E-SB-1446	E-SB-1446-6-8	03/30/2016	04/05/2016	6-8	0 U
E-SB-1447	E-SB-1447-2-4	03/31/2016	04/07/2016	2-4	290
E-SB-1447	E-SB-1447-4-6	03/31/2016	04/07/2016	4-6	18
E-SB-1447	E-SB-1447-6-8	03/31/2016	04/07/2016	6-8	46
E-SB-1448	E-SB-1448-2-3	03/01/2016	03/08/2016	2-3	130
E-SB-1448	E-SB-1448-3-4	03/01/2016	03/08/2016	3-4	0.042
E-SB-1448	E-SB-1448-4-5	03/01/2016	03/08/2016	4-5	0.031
E-SB-1448	E-SB-1448-5-6	03/01/2016	03/08/2016	5-6	0 U

Table 2-2

Summary of Total Aroclor Concentrations in Subsurface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
E-SB-1449	E-SB-1449-2-3	03/01/2016	03/08/2016	2-3	0.33
E-SB-1449	E-SB-1449-2-3-D	03/01/2016	03/08/2016	2-3	0.27
E-SB-1449	E-SB-1449-3-4	03/01/2016	03/08/2016	3-4	0.56
E-SB-1449	E-SB-1449-4-5	03/01/2016	03/08/2016	4-5	0.061
E-SB-1449	E-SB-1449-5-6	03/01/2016	03/08/2016	5-6	0.061
E-SB-1450	E-SB-1450-2-3	03/01/2016	03/10/2016	2-3	0.013
E-SB-1450	E-SB-1450-3-4	03/01/2016	03/10/2016	3-4	0 U
E-SB-1451	E-SB-1451-2-3	03/01/2016	03/10/2016	2-3	0.055
E-SB-1451	E-SB-1451-3-4	03/01/2016	03/10/2016	3-4	0 U
E-SB-1452	E-SB-1452-2-3	03/01/2016	03/11/2016	2-3	0 U
E-SB-1452	E-SB-1452-3-4	03/01/2016	03/09/2016	3-4	0 U
E-SB-1453	E-SB-1453-2-3	03/02/2016	03/09/2016	2-3	9.8
E-SB-1453	E-SB-1453-3-4	03/02/2016	03/09/2016	3-4	0.027
E-SB-1453	E-SB-1453-4-5	03/02/2016	03/09/2016	4-5	0 U
E-SB-1453	E-SB-1453-5-6	03/02/2016	03/09/2016	5-6	0 U
E-SB-1453	E-SB-1453-6-7	03/02/2016	03/09/2016	6-7	0 U
E-SB-1453	E-SB-1453-7-8	03/02/2016	03/09/2016	7-8	0 U
E-SB-1454	E-SB-1454-2-3	03/02/2016	03/09/2016	2-3	4.5
E-SB-1454	E-SB-1454-3-4	03/02/2016	03/10/2016	3-4	0.047
E-SB-1454	E-SB-1454-4-5	03/02/2016	03/10/2016	4-5	0 U
E-SB-1454	E-SB-1454-5-6	03/02/2016	03/10/2016	5-6	1
E-SB-1454	E-SB-1454-6-7	03/02/2016	03/10/2016	6-7	0 U
E-SB-1454	E-SB-1454-7-8	03/02/2016	03/10/2016	7-8	0 U
E-SB-1455	E-SB-1455-2-3	03/02/2016	03/10/2016	2-3	5.1
E-SB-1455	E-SB-1455-3-4	03/02/2016	03/10/2016	3-4	0.041
E-SB-1455	E-SB-1455-3-4-D	03/02/2016	03/11/2016	3-4	0.049
E-SB-1455	E-SB-1455-4-5	03/02/2016	03/10/2016	4-5	0.027
E-SB-1455	E-SB-1455-5-6	03/02/2016	03/10/2016	5-6	0.27
E-SB-1455	E-SB-1455-6-7	03/02/2016	03/10/2016	6-7	0 U
E-SB-1455	E-SB-1455-7-8	03/02/2016	03/11/2016	7-8	0 U
E-SB-1456	E-SB-1456-2-3	03/02/2016	03/10/2016	2-3	1700
E-SB-1456	E-SB-1456-3-4	03/02/2016	03/10/2016	3-4	0.24
E-SB-1456	E-SB-1456-4-5	03/02/2016	03/11/2016	4-5	0.21
E-SB-1456	E-SB-1456-5-6	03/02/2016	03/11/2016	5-6	1100
E-SB-1457	E-SB-1457-2-3	02/26/2016	03/03/2016	2-3	0 U
E-SB-1458	E-SB-1458-2-3	02/26/2016	03/03/2016	2-3	0 U
E-SB-1459	E-SB-1459-2-3	02/26/2016	03/03/2016	2-3	0 U
E-SB-1459	E-SB-1459-2-3-D	02/26/2016	03/03/2016	2-3	0 U
E-SB-1460	E-SB-1460-2-3	02/26/2016	03/03/2016	2-3	0 U
E-SB-1461	E-SB-1461-2-3	02/26/2016	03/03/2016	2-3	540
E-SB-1461	E-SB-1461-3-4	02/26/2016	03/03/2016	3-4	110
E-SB-1462	E-SB-1462-10-12	02/25/2016	03/03/2016	10-12	130

Table 2-2

Summary of Total Aroclor Concentrations in Subsurface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
E-SB-1462	E-SB-1462-12-14	02/25/2016	03/03/2016	12-14	23
E-SB-1462	E-SB-1462-8-10	02/25/2016	03/03/2016	8-10	4.1
E-SB-1463	E-SB-1463-10-12	02/25/2016	03/03/2016	10-12	740
E-SB-1463	E-SB-1463-10-12-	02/25/2016	03/03/2016	10-12	540
E-SB-1463	E-SB-1463-12-14	02/25/2016	03/03/2016	12-14	1.4
E-SB-1463	E-SB-1463-6-8	02/25/2016	03/03/2016	6-8	1300
E-SB-1463	E-SB-1463-8-10	02/25/2016	03/03/2016	8-10	2300
E-SB-1464	E-SB-1464-10-12	02/25/2016	03/03/2016	10-12	1.1
E-SB-1464	E-SB-1464-12-14	02/25/2016	03/03/2016	12-14	27
E-SB-1464	E-SB-1464-2-4	02/25/2016	03/03/2016	2-4	0 U
E-SB-1464	E-SB-1464-4-6	02/25/2016	03/03/2016	4-6	0.024
E-SB-1464	E-SB-1464-6-8	02/25/2016	03/03/2016	6-8	0 U
E-SB-1464	E-SB-1464-8-10	02/25/2016	03/03/2016	8-10	150
E-SB-1465	E-SB-1465-10-12	02/25/2016	03/03/2016	10-12	37
E-SB-1465	E-SB-1465-12-14	02/25/2016	03/03/2016	12-14	1.9
E-SB-1465	E-SB-1465-14-16	02/25/2016	03/03/2016	14-16	99
E-SB-1465	E-SB-1465-6-8	02/25/2016	03/03/2016	6-8	31
E-SB-1465	E-SB-1465-6-8-D	02/25/2016	03/03/2016	6-8	37
E-SB-1465	E-SB-1465-8-10	02/25/2016	03/03/2016	8-10	220
E-SB-1466	E-SB-1466-10-12	02/25/2016	03/03/2016	10-12	0.352
E-SB-1466	E-SB-1466-12-14	02/25/2016	03/03/2016	12-14	0.039
E-SB-1466	E-SB-1466-14-16	02/25/2016	03/03/2016	14-16	0.097
E-SB-1466	E-SB-1466-6-8	02/25/2016	03/03/2016	6-8	0.07
E-SB-1466	E-SB-1466-8-10	02/25/2016	03/03/2016	8-10	0.12
E-SB-1467	E-SB-1467-10-12	02/25/2016	03/03/2016	10-12	0.033
E-SB-1467	E-SB-1467-12-14	02/25/2016	03/03/2016	12-14	0 U
E-SB-1467	E-SB-1467-14-16	02/25/2016	03/03/2016	14-16	0 U
E-SB-1467	E-SB-1467-16-18	02/25/2016	03/03/2016	16-18	0 U
E-SB-1467	E-SB-1467-16-18-	02/25/2016	03/03/2016	16-18	0 U
E-SB-1468	E-SB-1468-10-12	03/29/2016	04/19/2016	10-12	0 U
E-SB-1468	E-SB-1468-12-14	03/29/2016	04/04/2016	12-14	43
E-SB-1468	E-SB-1468-14-16	03/29/2016	04/11/2016	14-16	0.11
E-SB-1468	E-SB-1468-16-18	03/29/2016	04/11/2016	16-18	0 U
E-SB-1468	E-SB-1468-6-8	02/25/2016	03/03/2016	6-8	0.49
E-SB-1469	E-SB-1469-10-12	02/29/2016	03/04/2016	10-12	0.45
E-SB-1469	E-SB-1469-12-14	02/29/2016	03/04/2016	12-14	0.11
E-SB-1469	E-SB-1469-14-16	02/29/2016	03/04/2016	14-16	1.7
E-SB-1469	E-SB-1469-16-18	02/29/2016	03/04/2016	16-18	1.2
E-SB-1469	E-SB-1469-16-18-	02/29/2016	03/04/2016	16-18	1.1
E-SB-1470	E-SB-1470-10-12	03/29/2016	04/04/2016	10-12	210
E-SB-1470	E-SB-1470-10-12-	03/29/2016	04/04/2016	10-12	180
E-SB-1470	E-SB-1470-12-14	03/29/2016	04/04/2016	12-14	110

Table 2-2

Summary of Total Aroclor Concentrations in Subsurface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
E-SB-1470	E-SB-1470-14-16	03/29/2016	04/04/2016	14-16	4.8
E-SB-1470	E-SB-1470-16-18	03/29/2016	04/08/2016	16-18	0.45
E-SB-1471	E-SB-1471-12-16	03/29/2016	04/06/2016	12-16	48
E-SB-1471	E-SB-1471-16-20	03/29/2016	04/20/2016	16-20	390
E-SB-1471	E-SB-1471-20-24	03/29/2016	04/06/2016	20-24	2.2
E-SB-1471	E-SB-1471-4-6	03/29/2016	04/06/2016	4-6	1400
E-SB-1471	E-SB-1471-8-12	03/29/2016	04/06/2016	8-12	120
E-SB-1472	E-SB-1472-12-16	03/30/2016	04/06/2016	12-16	5.7
E-SB-1472	E-SB-1472-12-16-	03/30/2016	04/06/2016	12-16	8.8
E-SB-1472	E-SB-1472-16-20	03/30/2016	04/06/2016	16-20	0.8
E-SB-1472	E-SB-1472-20-24	03/30/2016	04/06/2016	20-24	0.58
E-SB-1472	E-SB-1472-4-6	03/30/2016	04/06/2016	4-6	5.3
E-SB-1472	E-SB-1472-8-12	03/30/2016	04/06/2016	8-12	11
E-SB-1473	E-SB-1473-12-16	03/30/2016	04/06/2016	12-16	3.2
E-SB-1473	E-SB-1473-16-20	03/30/2016	04/06/2016	16-20	1.4
E-SB-1473	E-SB-1473-4-6	03/30/2016	04/06/2016	4-6	0 U
E-SB-1473	E-SB-1473-8-12	03/30/2016	04/06/2016	8-12	1700
E-SB-1474	E-SB-1474-12-16	02/29/2016	03/04/2016	12-16	21
E-SB-1474	E-SB-1474-16-20	02/29/2016	03/04/2016	16-20	3.9
E-SB-1474	E-SB-1474-4-6	02/29/2016	03/04/2016	4-6	0.056
E-SB-1474	E-SB-1474-8-12	02/29/2016	03/04/2016	8-12	680
E-SB-1475	E-SB-1475-12-16	03/29/2016	04/08/2016	12-16	0.71
E-SB-1475	E-SB-1475-16-20	03/29/2016	04/11/2016	16-20	0.099
E-SB-1475	E-SB-1475-4-6	03/29/2016	04/08/2016	4-6	1.2
E-SB-1475	E-SB-1475-8-12	03/29/2016	04/11/2016	8-12	0.14
E-SB-1476	E-SB-1476-12-16	03/29/2016	04/05/2016	12-16	7.2
E-SB-1476	E-SB-1476-12-16-	03/29/2016	04/05/2016	12-16	1900
E-SB-1476	E-SB-1476-16-20	03/29/2016	04/05/2016	16-20	240
E-SB-1476	E-SB-1476-4-6	03/29/2016	04/11/2016	4-6	0.063
E-SB-1476	E-SB-1476-8-12	03/29/2016	04/05/2016	8-12	960
E-SB-1477	E-SB-1477-2-3	03/07/2016	03/11/2016	2-3	0.11
E-SB-1477	E-SB-1477-3-4	03/07/2016	03/11/2016	3-4	0.018
E-SB-1478	E-SB-1478-2-3	03/07/2016	03/12/2016	2-3	0.069
E-SB-1478	E-SB-1478-3-4	03/07/2016	03/12/2016	3-4	0.014
E-SB-1494	E-SB-1494-10-12	03/31/2016	04/07/2016	10-12	1
E-SB-1494	E-SB-1494-12-14	03/31/2016	04/07/2016	12-14	2300
E-SB-1494	E-SB-1494-14-16	03/31/2016	04/07/2016	14-16	49
E-SB-1494	E-SB-1494-2-4	03/31/2016	04/06/2016	2-4	0.4
E-SB-1494	E-SB-1494-4-6	03/31/2016	04/06/2016	4-6	1.2
E-SB-1494	E-SB-1494-6-8	03/31/2016	04/06/2016	6-8	3
E-SB-1494	E-SB-1494-8-10	03/31/2016	04/07/2016	8-10	3.7
E-SB-1495	E-SB-1495-2-4	03/31/2016	04/07/2016	2-4	5.2

Table 2-2

Summary of Total Aroclor Concentrations in Subsurface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
E-SB-1495	E-SB-1495-4-6	03/31/2016	04/07/2016	4-6	540
E-SB-1495	E-SB-1495-4-6-D	03/31/2016	04/06/2016	4-6	920
E-SB-1495	E-SB-1495-6-8	03/31/2016	04/07/2016	6-8	2.7
E-SB-1496	E-SB-1496-2-4	03/31/2016	04/07/2016	2-4	0.054
E-SB-1496	E-SB-1496-4-6	03/31/2016	04/07/2016	4-6	0.068
E-SB-1496	E-SB-1496-6-8	03/31/2016	04/07/2016	6-8	0.081
E-SB-1497	E-SB-1497-2-4	03/31/2016	04/07/2016	2-4	0.055
E-SB-1497	E-SB-1497-4-6	03/31/2016	04/07/2016	4-6	0.16
E-SB-1497	E-SB-1497-6-8	03/31/2016	04/07/2016	6-8	0.23
E-SB-1497	E-SB-1497-6-8-D	03/31/2016	04/07/2016	6-8	0.13
E-SB-1498	E-SB-1498-2-4	03/31/2016	04/07/2016	2-4	0.11
E-SB-1498	E-SB-1498-4-6	03/31/2016	04/07/2016	4-6	0.095
E-SB-1498	E-SB-1498-6-8	03/31/2016	04/11/2016	6-8	0.028
E-SB-1499	E-SB-1499-2-4	03/31/2016	04/11/2016	2-4	3000
E-SB-1499	E-SB-1499-4-6	03/31/2016	04/12/2016	4-6	130
E-SB-1499	E-SB-1499-6-8	03/31/2016	04/12/2016	6-8	9400
E-SB-1500	E-SB-1500-2-4	03/31/2016	04/07/2016	2-4	0 U
E-SB-1500	E-SB-1500-4-6	03/31/2016	04/07/2016	4-6	0.032
E-SB-1500	E-SB-1500-6-8	03/31/2016	04/07/2016	6-8	0 U
E-SB-1501	E-SB-1501-2-4	03/04/2016	03/11/2016	2-4	7700
E-SB-1501	E-SB-1501-4-6	03/04/2016	03/11/2016	4-6	77
E-SB-1501	E-SB-1501-6-8	03/04/2016	03/11/2016	6-8	450
E-SB-1502	E-SB-1502-10-12	03/07/2016	03/15/2016	10-12	48
E-SB-1502	E-SB-1502-12-14	03/07/2016	03/15/2016	12-14	21
E-SB-1502	E-SB-1502-14-16	03/07/2016	03/15/2016	14-16	52
E-SB-1502	E-SB-1502-2-4	03/07/2016	03/15/2016	2-4	0.021
E-SB-1502	E-SB-1502-4-6	03/07/2016	03/15/2016	4-6	5.4
E-SB-1502	E-SB-1502-6-8	03/07/2016	03/16/2016	6-8	2700
E-SB-1502	E-SB-1502-8-10	03/07/2016	03/15/2016	8-10	18
E-SB-1502	E-SB-1502-8-10-D	03/07/2016	03/15/2016	8-10	55
E-SB-1503	E-SB-1503-2-4	03/07/2016	03/15/2016	2-4	860
E-SB-1503	E-SB-1503-4-6	03/07/2016	03/15/2016	4-6	7000
E-SB-1503	E-SB-1503-6-8	03/07/2016	03/15/2016	6-8	78
E-SB-1504	E-SB-1504-2-4	03/04/2016	03/09/2016	2-4	0.089
E-SB-1504	E-SB-1504-4-6	03/04/2016	03/09/2016	4-6	5.1
E-SB-1504	E-SB-1504-6-8	03/04/2016	03/09/2016	6-8	1.6
E-SB-1505	E-SB-1505-2-4	03/04/2016	03/09/2016	2-4	0.028
E-SB-1505	E-SB-1505-4-6	03/04/2016	03/09/2016	4-6	0.14
E-SB-1505	E-SB-1505-6-8	03/04/2016	03/09/2016	6-8	6500
E-SB-1506	E-SB-1506-2-4	03/04/2016	03/09/2016	2-4	0.044
E-SB-1506	E-SB-1506-2-4-D	03/04/2016	03/09/2016	2-4	0.023
E-SB-1506	E-SB-1506-4-6	03/04/2016	03/09/2016	4-6	0.044

Table 2-2

Summary of Total Aroclor Concentrations in Subsurface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
E-SB-1506	E-SB-1506-6-8	03/04/2016	03/09/2016	6-8	0 U
E-SB-1507	E-SB-1507-2-4	03/04/2016	03/09/2016	2-4	110
E-SB-1507	E-SB-1507-4-6	03/04/2016	03/09/2016	4-6	1300
E-SB-1507	E-SB-1507-6-8	03/04/2016	03/09/2016	6-8	13
E-SB-1508	E-SB-1508-2-4	03/04/2016	03/09/2016	2-4	0.08
E-SB-1508	E-SB-1508-4-6	03/04/2016	03/10/2016	4-6	0.54
E-SB-1508	E-SB-1508-6-8	03/04/2016	03/10/2016	6-8	0.29
E-SB-1509	E-SB-1509-2-4	03/04/2016	03/10/2016	2-4	0.053
E-SB-1509	E-SB-1509-4-6	03/04/2016	03/10/2016	4-6	0 U
E-SB-1509	E-SB-1509-6-8	03/04/2016	03/11/2016	6-8	0 U
E-SB-1509	E-SB-1509-6-8-D	03/04/2016	03/10/2016	6-8	0 U
E-SB-1510	E-SB-1510-10-12	03/07/2016	03/15/2016	10-12	0.23
E-SB-1510	E-SB-1510-12-14	03/07/2016	03/15/2016	12-14	0.013
E-SB-1510	E-SB-1510-14-16	03/07/2016	03/15/2016	14-16	0.027
E-SB-1510	E-SB-1510-2-4	03/07/2016	03/15/2016	2-4	0.8
E-SB-1510	E-SB-1510-4-6	03/07/2016	03/18/2016	4-6	0.14
E-SB-1510	E-SB-1510-4-6-D	03/07/2016	03/11/2016	4-6	0.28
E-SB-1510	E-SB-1510-6-8	03/07/2016	03/18/2016	6-8	0.12
E-SB-1510	E-SB-1510-8-10	03/07/2016	03/18/2016	8-10	0.12
E-SB-1511	E-SB-1511-2-4	03/04/2016	03/10/2016	2-4	0 U
E-SB-1511	E-SB-1511-4-6	03/04/2016	03/11/2016	4-6	0.85
E-SB-1511	E-SB-1511-6-8	03/04/2016	03/11/2016	6-8	0 U
E-SB-1530	E-SB-1530-10-12	03/03/2016	03/10/2016	10-12	0 U
E-SB-1530	E-SB-1530-12-14	03/03/2016	03/11/2016	12-14	0 U
E-SB-1530	E-SB-1530-14-16	03/03/2016	03/11/2016	14-16	0 U
E-SB-1530	E-SB-1530-2-4	03/03/2016	03/10/2016	2-4	0 U
E-SB-1530	E-SB-1530-4-6	03/03/2016	03/10/2016	4-6	0.011
E-SB-1530	E-SB-1530-4-6-D	03/03/2016	03/09/2016	4-6	0 U
E-SB-1530	E-SB-1530-6-8	03/03/2016	03/10/2016	6-8	0 U
E-SB-1530	E-SB-1530-8-10	03/03/2016	03/10/2016	8-10	0 U
E-SB-1531	E-SB-1531-10-12	03/03/2016	03/09/2016	10-12	2.8
E-SB-1531	E-SB-1531-12-14	03/03/2016	03/09/2016	12-14	0.31
E-SB-1531	E-SB-1531-14-16	03/03/2016	03/09/2016	14-16	850
E-SB-1531	E-SB-1531-2-4	03/03/2016	03/09/2016	2-4	0.023
E-SB-1531	E-SB-1531-4-6	03/03/2016	03/09/2016	4-6	0.045
E-SB-1531	E-SB-1531-6-8	03/03/2016	03/09/2016	6-8	240
E-SB-1531	E-SB-1531-6-8-D	03/03/2016	03/09/2016	6-8	1600
E-SB-1531	E-SB-1531-8-10	03/03/2016	03/09/2016	8-10	15
E-SB-1532	E-SB-1532-10-12	03/03/2016	03/09/2016	10-12	0.013
E-SB-1532	E-SB-1532-12-14	03/03/2016	03/09/2016	12-14	0 U
E-SB-1532	E-SB-1532-14-16	03/03/2016	03/09/2016	14-16	0.81
E-SB-1532	E-SB-1532-2-4	03/03/2016	03/09/2016	2-4	0.026

Table 2-2

Summary of Total Aroclor Concentrations in Subsurface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
E-SB-1532	E-SB-1532-4-6	03/03/2016	03/09/2016	4-6	0.02
E-SB-1532	E-SB-1532-6-8	03/03/2016	03/09/2016	6-8	0 U
E-SB-1532	E-SB-1532-8-10	03/03/2016	03/09/2016	8-10	0.023
E-SB-1533	E-SB-1533-10-12	03/03/2016	03/09/2016	10-12	0.016
E-SB-1533	E-SB-1533-12-14	03/03/2016	03/09/2016	12-14	0.011
E-SB-1533	E-SB-1533-12-14-	03/03/2016	03/09/2016	12-14	0 U
E-SB-1533	E-SB-1533-14-16	03/03/2016	03/09/2016	14-16	0 U
E-SB-1533	E-SB-1533-2-4	03/03/2016	03/09/2016	2-4	0.011
E-SB-1533	E-SB-1533-4-6	03/03/2016	03/09/2016	4-6	0.14
E-SB-1533	E-SB-1533-6-8	03/03/2016	03/09/2016	6-8	0.35
E-SB-1533	E-SB-1533-8-10	03/03/2016	03/09/2016	8-10	0.42
E-SB-1534	E-SB-1534-2-4	03/03/2016	03/09/2016	2-4	0 U
E-SB-1534	E-SB-1534-4-6	03/03/2016	03/09/2016	4-6	0 U
E-SB-1534	E-SB-1534-6-8	03/03/2016	03/09/2016	6-8	0 U
E-SB-1535	E-SB-1535-2-4	03/03/2016	03/09/2016	2-4	0 U
E-SB-1535	E-SB-1535-4-6	03/03/2016	03/09/2016	4-6	0.021
E-SB-1535	E-SB-1535-6-8	03/03/2016	03/09/2016	6-8	0 U
E-SB-1536	E-SB-1536-10-12	02/09/2017	02/24/2017	10-12	0.05
E-SB-1536	E-SB-1536-12-14	02/09/2017	02/24/2017	12-14	0 U
E-SB-1536	E-SB-1536-14-16	02/09/2017	02/24/2017	14-16	0.089
E-SB-1536	E-SB-1536-2-4	02/09/2017	02/24/2017	2-4	0 U
E-SB-1536	E-SB-1536-4-6	02/09/2017	02/24/2017	4-6	0 U
E-SB-1536	E-SB-1536-6-8	02/09/2017	02/24/2017	6-8	0 U
E-SB-1536	E-SB-1536-8-10	02/09/2017	02/24/2017	8-10	0 U
E-SB-1537	E-SB-1537-10-12	02/09/2017	02/24/2017	10-12	0 U
E-SB-1537	E-SB-1537-10-12-	02/09/2017	02/24/2017	10-12	0.039
E-SB-1537	E-SB-1537-12-14	02/09/2017	02/24/2017	12-14	0 U
E-SB-1537	E-SB-1537-14-16	02/09/2017	02/24/2017	14-16	0 U
E-SB-1537	E-SB-1537-2-4	02/09/2017	02/24/2017	2-4	0.14
E-SB-1537	E-SB-1537-4-6	02/09/2017	02/24/2017	4-6	0 U
E-SB-1537	E-SB-1537-6-8	02/09/2017	02/24/2017	6-8	0 U
E-SB-1537	E-SB-1537-8-10	02/09/2017	02/24/2017	8-10	0 U
E-SB-1538	E-SB-1538-10-12	02/09/2017	02/24/2017	10-12	0 U
E-SB-1538	E-SB-1538-12-14	02/09/2017	02/24/2017	12-14	0 U
E-SB-1538	E-SB-1538-14-16	02/09/2017	02/24/2017	14-16	0 U
E-SB-1538	E-SB-1538-2-4	02/09/2017	02/23/2017	2-4	0 U
E-SB-1538	E-SB-1538-4-6	02/09/2017	02/23/2017	4-6	0 U
E-SB-1538	E-SB-1538-6-8	02/09/2017	02/23/2017	6-8	0 U
E-SB-1538	E-SB-1538-8-10	02/09/2017	02/23/2017	8-10	0 U
E-SB-1539	E-SB-1539-10-12	02/10/2017	02/24/2017	10-12	0 U
E-SB-1539	E-SB-1539-12-14	02/10/2017	02/24/2017	12-14	0 U
E-SB-1539	E-SB-1539-12-14-	02/10/2017	02/23/2017	12-14	0 U

Table 2-2

Summary of Total Aroclor Concentrations in Subsurface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
E-SB-1539	E-SB-1539-14-16	02/10/2017	02/24/2017	14-16	0 U
E-SB-1539	E-SB-1539-2-4	02/10/2017	02/24/2017	2-4	0 U
E-SB-1539	E-SB-1539-4-6	02/10/2017	02/24/2017	4-6	0 U
E-SB-1539	E-SB-1539-6-8	02/10/2017	02/24/2017	6-8	0 U
E-SB-1539	E-SB-1539-8-10	02/10/2017	02/24/2017	8-10	0 U
E-SB-1540	E-SB-1540-10-12	02/10/2017	02/24/2017	10-12	0 U
E-SB-1540	E-SB-1540-12-14	02/10/2017	02/24/2017	12-14	0 U
E-SB-1540	E-SB-1540-14-16	02/10/2017	02/24/2017	14-16	0 U
E-SB-1540	E-SB-1540-2-4	02/10/2017	02/24/2017	2-4	0 U
E-SB-1540	E-SB-1540-4-6	02/10/2017	02/24/2017	4-6	0 U
E-SB-1540	E-SB-1540-6-8	02/10/2017	02/24/2017	6-8	0 U
E-SB-1540	E-SB-1540-8-10	02/10/2017	02/24/2017	8-10	0 U
E-SB-1541	E-SB-1541-10-12	02/09/2017	02/23/2017	10-12	0.032
E-SB-1541	E-SB-1541-12-14	02/09/2017	02/23/2017	12-14	0 U
E-SB-1541	E-SB-1541-14-16	02/09/2017	02/23/2017	14-16	0 U
E-SB-1541	E-SB-1541-2-4	02/09/2017	02/23/2017	2-4	0 U
E-SB-1541	E-SB-1541-4-6	02/09/2017	02/23/2017	4-6	0.029
E-SB-1541	E-SB-1541-6-8	02/09/2017	02/23/2017	6-8	0 U
E-SB-1541	E-SB-1541-8-10	02/09/2017	02/23/2017	8-10	0 U
E-SB-1542	E-SB-1542-10-12	02/09/2017	02/23/2017	10-12	0.076
E-SB-1542	E-SB-1542-12-14	02/09/2017	02/23/2017	12-14	0 U
E-SB-1542	E-SB-1542-14-16	02/09/2017	02/23/2017	14-16	0 U
E-SB-1542	E-SB-1542-14-16-	02/09/2017	02/23/2017	14-16	0 U
E-SB-1542	E-SB-1542-2-4	02/09/2017	02/23/2017	2-4	0 U
E-SB-1542	E-SB-1542-4-6	02/09/2017	02/23/2017	4-6	0 U
E-SB-1542	E-SB-1542-6-8	02/09/2017	02/23/2017	6-8	0 U
E-SB-1542	E-SB-1542-8-10	02/09/2017	02/23/2017	8-10	0.25
E-SB-1543	E-SB-1543-10-12	01/10/2017	01/18/2017	10-12	0 U
E-SB-1543	E-SB-1543-12-14	01/10/2017	01/18/2017	12-14	0.047
E-SB-1543	E-SB-1543-14-16	01/10/2017	01/18/2017	14-16	0.022
E-SB-1543	E-SB-1543-16-18	01/10/2017	01/18/2017	16-18	0 U
E-SB-1543	E-SB-1543-16-18-	01/10/2017	01/19/2017	16-18	0.027
E-SB-1543	E-SB-1543-18-20	01/10/2017	01/18/2017	18-20	0 U
E-SB-1543	E-SB-1543-2-4	01/10/2017	01/18/2017	2-4	0 U
E-SB-1543	E-SB-1543-4-6	01/10/2017	01/18/2017	4-6	0 U
E-SB-1543	E-SB-1543-6-8	01/10/2017	01/18/2017	6-8	0 U
E-SB-1543	E-SB-1543-8-10	01/10/2017	01/18/2017	8-10	0 U
E-SB-1544	E-SB-1544-10-12	01/09/2017	01/17/2017	10-12	0 U
E-SB-1544	E-SB-1544-12-14	01/09/2017	01/17/2017	12-14	0 U
E-SB-1544	E-SB-1544-14-16	01/09/2017	01/17/2017	14-16	0.028
E-SB-1544	E-SB-1544-16-18	01/09/2017	01/17/2017	16-18	0 U
E-SB-1544	E-SB-1544-18-20	01/09/2017	01/17/2017	18-20	0 U

Table 2-2

Summary of Total Aroclor Concentrations in Subsurface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
E-SB-1544	E-SB-1544-2-4	01/09/2017	01/17/2017	2-4	0 U
E-SB-1544	E-SB-1544-4-6	01/09/2017	01/17/2017	4-6	2200
E-SB-1544	E-SB-1544-4-6-D	01/09/2017	01/17/2017	4-6	530
E-SB-1544	E-SB-1544-6-8	01/09/2017	01/17/2017	6-8	7.9
E-SB-1544	E-SB-1544-8-10	01/09/2017	01/17/2017	8-10	0.023
E-SB-1545	E-SB-1545-10-12	01/09/2017	01/17/2017	10-12	6.2
E-SB-1545	E-SB-1545-12-14	01/09/2017	01/17/2017	12-14	16
E-SB-1545	E-SB-1545-14-16	01/09/2017	01/17/2017	14-16	10
E-SB-1545	E-SB-1545-16-18	01/09/2017	01/17/2017	16-18	8.4
E-SB-1545	E-SB-1545-18-20	01/09/2017	01/17/2017	18-20	1.2
E-SB-1545	E-SB-1545-2-4	01/09/2017	01/17/2017	2-4	910
E-SB-1545	E-SB-1545-4-6	01/09/2017	01/17/2017	4-6	7500
E-SB-1545	E-SB-1545-6-8	01/09/2017	01/17/2017	6-8	0.48
E-SB-1545	E-SB-1545-8-10	01/09/2017	01/17/2017	8-10	4.4
E-SB-1546	E-SB-1546-10-12	01/09/2017	01/17/2017	10-12	7000
E-SB-1546	E-SB-1546-12-14	01/09/2017	01/17/2017	12-14	89
E-SB-1546	E-SB-1546-14-16	01/09/2017	01/17/2017	14-16	45
E-SB-1546	E-SB-1546-16-18	01/09/2017	01/17/2017	16-18	45
E-SB-1546	E-SB-1546-18-20	01/09/2017	01/17/2017	18-20	27
E-SB-1546	E-SB-1546-2-4	01/09/2017	01/17/2017	2-4	16
E-SB-1546	E-SB-1546-4-6	01/09/2017	01/17/2017	4-6	1700
E-SB-1546	E-SB-1546-6-8	01/09/2017	01/19/2017	6-8	13000
E-SB-1546	E-SB-1546-8-10	01/09/2017	01/17/2017	8-10	130
E-SB-1547	E-SB-1547-10-12	01/09/2017	01/17/2017	10-12	1.5
E-SB-1547	E-SB-1547-12-14	01/09/2017	01/17/2017	12-14	420
E-SB-1547	E-SB-1547-14-16	01/09/2017	01/17/2017	14-16	19
E-SB-1547	E-SB-1547-16-18	01/09/2017	01/17/2017	16-18	87
E-SB-1547	E-SB-1547-18-20	01/09/2017	01/17/2017	18-20	4.2
E-SB-1547	E-SB-1547-2-4	01/09/2017	01/19/2017	2-4	37000
E-SB-1547	E-SB-1547-4-6	01/09/2017	01/17/2017	4-6	480
E-SB-1547	E-SB-1547-6-8	01/09/2017	01/17/2017	6-8	1.1
E-SB-1547	E-SB-1547-8-10	01/09/2017	01/17/2017	8-10	1.9
E-SB-1548	E-SB-1548-10-12	01/09/2017	01/17/2017	10-12	0.36
E-SB-1548	E-SB-1548-12-14	01/09/2017	01/18/2017	12-14	0.63
E-SB-1548	E-SB-1548-12-14-	01/09/2017	01/18/2017	12-14	0.32
E-SB-1548	E-SB-1548-14-16	01/09/2017	01/18/2017	14-16	0.27
E-SB-1548	E-SB-1548-16-18	01/09/2017	01/18/2017	16-18	0.18
E-SB-1548	E-SB-1548-18-20	01/09/2017	01/18/2017	18-20	0.88
E-SB-1548	E-SB-1548-2-4	01/09/2017	01/17/2017	2-4	0.62
E-SB-1548	E-SB-1548-4-6	01/09/2017	01/17/2017	4-6	5.9
E-SB-1548	E-SB-1548-6-8	01/09/2017	01/17/2017	6-8	320
E-SB-1548	E-SB-1548-8-10	01/09/2017	01/18/2017	8-10	31

Table 2-2

Summary of Total Aroclor Concentrations in Subsurface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
E-SB-1549	E-SB-1549-10-12	01/10/2017	01/18/2017	10-12	0 U
E-SB-1549	E-SB-1549-12-14	01/10/2017	01/18/2017	12-14	0 U
E-SB-1549	E-SB-1549-12-14-	01/10/2017	01/18/2017	12-14	0 U
E-SB-1549	E-SB-1549-14-16	01/10/2017	01/18/2017	14-16	0 U
E-SB-1549	E-SB-1549-16-18	01/10/2017	01/18/2017	16-18	0 U
E-SB-1549	E-SB-1549-18-20	01/10/2017	01/18/2017	18-20	0.11
E-SB-1549	E-SB-1549-2-4	01/10/2017	01/18/2017	2-4	0.2
E-SB-1549	E-SB-1549-4-6	01/10/2017	01/18/2017	4-6	0.11
E-SB-1549	E-SB-1549-6-8	01/10/2017	01/18/2017	6-8	0.022
E-SB-1549	E-SB-1549-8-10	01/10/2017	01/18/2017	8-10	0 U
E-SB-1550	E-SB-1550-10-12	01/10/2017	01/18/2017	10-12	0 U
E-SB-1550	E-SB-1550-12-14	01/10/2017	01/18/2017	12-14	0 U
E-SB-1550	E-SB-1550-12-14-	01/10/2017	01/18/2017	12-14	0.052
E-SB-1550	E-SB-1550-14-16	01/10/2017	01/18/2017	14-16	0.062
E-SB-1550	E-SB-1550-16-18	01/10/2017	01/18/2017	16-18	0.28
E-SB-1550	E-SB-1550-18-20	01/10/2017	01/18/2017	18-20	0 U
E-SB-1550	E-SB-1550-2-4	01/10/2017	01/18/2017	2-4	0 U
E-SB-1550	E-SB-1550-4-6	01/10/2017	01/18/2017	4-6	0 U
E-SB-1550	E-SB-1550-6-8	01/10/2017	01/18/2017	6-8	0 U
E-SB-1550	E-SB-1550-8-10	01/10/2017	01/18/2017	8-10	0 U
E-SB-1551	E-SB-1551-10-12	01/10/2017	01/17/2017	10-12	1
E-SB-1551	E-SB-1551-12-14	01/10/2017	01/17/2017	12-14	1.9
E-SB-1551	E-SB-1551-14-16	01/10/2017	01/17/2017	14-16	0.99
E-SB-1551	E-SB-1551-16-18	01/10/2017	01/17/2017	16-18	2.5
E-SB-1551	E-SB-1551-18-20	01/10/2017	01/17/2017	18-20	0.13
E-SB-1551	E-SB-1551-2-4	01/10/2017	01/18/2017	2-4	0.43
E-SB-1551	E-SB-1551-4-6	01/10/2017	01/20/2017	4-6	31000
E-SB-1551	E-SB-1551-4-6-D	01/10/2017	01/19/2017	4-6	27000
E-SB-1551	E-SB-1551-6-8	01/10/2017	01/18/2017	6-8	19
E-SB-1551	E-SB-1551-8-10	01/10/2017	01/18/2017	8-10	0.88
E-SB-1552	E-SB-1552-10-12	01/10/2017	01/18/2017	10-12	0 U
E-SB-1552	E-SB-1552-12-14	01/10/2017	01/18/2017	12-14	0 U
E-SB-1552	E-SB-1552-14-16	01/10/2017	01/18/2017	14-16	0 U
E-SB-1552	E-SB-1552-16-18	01/10/2017	01/18/2017	16-18	0.033
E-SB-1552	E-SB-1552-18-20	01/10/2017	01/18/2017	18-20	0 U
E-SB-1552	E-SB-1552-2-4	01/10/2017	01/18/2017	2-4	0.094
E-SB-1552	E-SB-1552-4-6	01/10/2017	01/18/2017	4-6	0 U
E-SB-1552	E-SB-1552-6-8	01/10/2017	01/18/2017	6-8	0 U
E-SB-1552	E-SB-1552-6-8-D	01/10/2017	01/18/2017	6-8	0 U
E-SB-1552	E-SB-1552-8-10	01/10/2017	01/18/2017	8-10	0.8
E-SB-1553	E-SB-1553-10-12	01/10/2017	01/17/2017	10-12	13
E-SB-1553	E-SB-1553-12-14	01/10/2017	01/18/2017	12-14	0.059

Table 2-2

Summary of Total Aroclor Concentrations in Subsurface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
E-SB-1553	E-SB-1553-14-16	01/10/2017	01/18/2017	14-16	0 U
E-SB-1553	E-SB-1553-16-18	01/10/2017	01/18/2017	16-18	0 U
E-SB-1553	E-SB-1553-18-20	01/10/2017	01/18/2017	18-20	0.067
E-SB-1553	E-SB-1553-2-4	01/10/2017	01/17/2017	2-4	0.13
E-SB-1553	E-SB-1553-2-4-D	01/10/2017	01/18/2017	2-4	0 U
E-SB-1553	E-SB-1553-4-6	01/10/2017	01/17/2017	4-6	2
E-SB-1553	E-SB-1553-6-8	01/10/2017	01/17/2017	6-8	3.6
E-SB-1553	E-SB-1553-8-10	01/10/2017	01/17/2017	8-10	0 U
E-SB-1584	E-SB-1584-10-12	01/31/2017	02/14/2017	10-12	0.71
E-SB-1584	E-SB-1584-12-14	01/31/2017	02/14/2017	12-14	0.86
E-SB-1584	E-SB-1584-14-16	01/31/2017	02/14/2017	14-16	0.039
E-SB-1584	E-SB-1584-2-4	01/31/2017	02/14/2017	2-4	0.3
E-SB-1584	E-SB-1584-4-6	01/31/2017	02/14/2017	4-6	0.5
E-SB-1584	E-SB-1584-6-8	01/31/2017	02/14/2017	6-8	170
E-SB-1584	E-SB-1584-8-10	01/31/2017	02/14/2017	8-10	1300
E-SB-1585	E-SB-1585-10-12	01/31/2017	02/12/2017	10-12	0.023
E-SB-1585	E-SB-1585-12-14	01/31/2017	02/12/2017	12-14	0.048
E-SB-1585	E-SB-1585-14-15	01/31/2017	02/12/2017	14-15	0 U
E-SB-1585	E-SB-1585-2-4	01/31/2017	02/10/2017	2-4	130
E-SB-1585	E-SB-1585-4-6	01/31/2017	02/10/2017	4-6	0.05
E-SB-1585	E-SB-1585-6-8	01/31/2017	02/10/2017	6-8	0 U
E-SB-1585	E-SB-1585-8-10	01/31/2017	02/10/2017	8-10	0 U
E-SB-1586	E-SB-1586-10-12	02/07/2017	02/23/2017	10-12	22
E-SB-1586	E-SB-1586-12-14	02/07/2017	02/23/2017	12-14	1.1
E-SB-1586	E-SB-1586-14-16	02/07/2017	02/23/2017	14-16	3.1
E-SB-1586	E-SB-1586-16-18	02/07/2017	02/23/2017	16-18	0.081
E-SB-1586	E-SB-1586-18-20	02/07/2017	02/23/2017	18-20	1.1
E-SB-1586	E-SB-1586-20-22	02/07/2017	02/23/2017	20-22	5.5
E-SB-1586	E-SB-1586-20-22-	02/07/2017	02/24/2017	20-22	0.6
E-SB-1586	E-SB-1586-6-8	02/07/2017	03/01/2017	6-8	7.9
E-SB-1586	E-SB-1586-8-10	02/07/2017	02/23/2017	8-10	410
E-SB-1587	E-SB-1587-10-12	02/07/2017	02/22/2017	10-12	0.061
E-SB-1587	E-SB-1587-10-12-	02/07/2017	02/24/2017	10-12	6.4
E-SB-1587	E-SB-1587-12-14	02/07/2017	02/22/2017	12-14	0.74
E-SB-1587	E-SB-1587-14-16	02/07/2017	02/22/2017	14-16	1.4
E-SB-1587	E-SB-1587-16-18	02/07/2017	02/22/2017	16-18	0 U
E-SB-1587	E-SB-1587-18-20	02/07/2017	02/22/2017	18-20	0 U
E-SB-1587	E-SB-1587-20-22	02/07/2017	02/22/2017	20-22	36
E-SB-1587	E-SB-1587-6-8	02/07/2017	02/22/2017	6-8	0 U
E-SB-1587	E-SB-1587-8-10	02/07/2017	02/22/2017	8-10	12
E-SB-1588	E-SB-1588-10-12	02/06/2017	02/21/2017	10-12	0.66
E-SB-1588	E-SB-1588-12-14	02/06/2017	02/21/2017	12-14	0.19

Table 2-2

Summary of Total Aroclor Concentrations in Subsurface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
E-SB-1588	E-SB-1588-14-16	02/06/2017	02/21/2017	14-16	0.22
E-SB-1588	E-SB-1588-16-18	02/06/2017	02/21/2017	16-18	0.62
E-SB-1588	E-SB-1588-18-20	02/06/2017	02/22/2017	18-20	4.9
E-SB-1588	E-SB-1588-20-22	02/06/2017	02/22/2017	20-22	0.67
E-SB-1588	E-SB-1588-6-8	02/06/2017	02/21/2017	6-8	2700
E-SB-1588	E-SB-1588-8-10	02/06/2017	02/21/2017	8-10	0.89
E-SB-1589	E-SB-1589-2-3	01/25/2017	02/10/2017	2-3	620
E-SB-1590	E-SB-1590-10-12	02/07/2017	02/24/2017	10-12	320
E-SB-1590	E-SB-1590-12-14	02/07/2017	02/24/2017	12-14	31
E-SB-1590	E-SB-1590-14-16	02/07/2017	02/24/2017	14-16	49
E-SB-1590	E-SB-1590-16-18	02/07/2017	02/24/2017	16-18	190
E-SB-1590	E-SB-1590-18-20	02/07/2017	02/24/2017	18-20	11
E-SB-1590	E-SB-1590-20-22	02/07/2017	02/24/2017	20-22	4.2
E-SB-1590	E-SB-1590-4-6	02/07/2017	02/24/2017	4-6	0.26
E-SB-1590	E-SB-1590-6-8	02/07/2017	02/24/2017	6-8	0.58
E-SB-1590	E-SB-1590-8-10	02/07/2017	02/24/2017	8-10	200
E-SB-1591	E-SB-1591-10-12	02/06/2017	02/18/2017	10-12	0 U
E-SB-1591	E-SB-1591-12-14	02/06/2017	02/18/2017	12-14	0 U
E-SB-1591	E-SB-1591-14-16	02/06/2017	02/18/2017	14-16	0 U
E-SB-1591	E-SB-1591-4-6	02/06/2017	02/18/2017	4-6	0.11
E-SB-1591	E-SB-1591-4-6-D	02/06/2017	02/18/2017	4-6	0.17
E-SB-1591	E-SB-1591-6-8	02/06/2017	02/18/2017	6-8	0.028
E-SB-1591	E-SB-1591-8-10	02/06/2017	02/18/2017	8-10	0 U
E-SB-1592	E-SB-1592-10-12	01/31/2017	02/12/2017	10-12	0.37
E-SB-1592	E-SB-1592-12-14	01/31/2017	02/12/2017	12-14	0.4
E-SB-1592	E-SB-1592-14-16	01/31/2017	02/12/2017	14-16	4.4
E-SB-1592	E-SB-1592-16-18	01/31/2017	02/12/2017	16-18	1.5
E-SB-1592	E-SB-1592-18-20	01/31/2017	02/12/2017	18-20	1.6
E-SB-1592	E-SB-1592-20-22	01/31/2017	02/12/2017	20-22	2.5
E-SB-1592	E-SB-1592-4-6	01/31/2017	02/12/2017	4-6	7.7
E-SB-1592	E-SB-1592-6-8	01/31/2017	02/12/2017	6-8	370
E-SB-1592	E-SB-1592-8-10	01/31/2017	02/12/2017	8-10	48
E-SB-1593	E-SB-1593-2-3	01/25/2017	02/10/2017	2-3	0.044
E-SB-1594	E-SB-1594-2-3	01/25/2017	02/09/2017	2-3	1.3
E-SB-1595	E-SB-1595-2-4	01/31/2017	02/13/2017	2-4	0 U
E-SB-1595	E-SB-1595-4-6	01/31/2017	02/13/2017	4-6	0.034
E-SB-1595	E-SB-1595-4-6-D	01/31/2017	02/14/2017	4-6	0.054
E-SB-1595	E-SB-1595-6-8	01/31/2017	02/13/2017	6-8	0 U
E-SB-1595	E-SB-1595-8-10	01/31/2017	02/13/2017	8-10	0 U
E-SB-1596	E-SB-1596-2-4	02/06/2017	02/21/2017	2-4	2.7
E-SB-1596	E-SB-1596-4-6	02/06/2017	02/21/2017	4-6	2.8
E-SB-1596	E-SB-1596-6-8	02/06/2017	02/21/2017	6-8	1.2

Table 2-2

Summary of Total Aroclor Concentrations in Subsurface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
E-SB-1596	E-SB-1596-8-10	02/06/2017	02/21/2017	8-10	0.067
E-SB-1597	E-SB-1597-10-12	01/11/2017	01/19/2017	10-12	18
E-SB-1597	E-SB-1597-12-14	01/11/2017	01/19/2017	12-14	14
E-SB-1597	E-SB-1597-14-16	01/11/2017	01/19/2017	14-16	2
E-SB-1597	E-SB-1597-16-18	01/11/2017	01/19/2017	16-18	0.36
E-SB-1597	E-SB-1597-18-20	01/11/2017	01/19/2017	18-20	0.14
E-SB-1597	E-SB-1597-20-22	01/11/2017	01/20/2017	20-22	44
E-SB-1597	E-SB-1597-22-24	01/11/2017	01/19/2017	22-24	0.13
E-SB-1597	E-SB-1597-6-8	01/11/2017	01/19/2017	6-8	18
E-SB-1597	E-SB-1597-8-10	01/11/2017	01/19/2017	8-10	380
E-SB-1598	E-SB-1598-10-12	01/11/2017	01/20/2017	10-12	13000
E-SB-1598	E-SB-1598-12-14	01/11/2017	01/19/2017	12-14	4.6
E-SB-1598	E-SB-1598-14-16	01/11/2017	01/19/2017	14-16	2.3
E-SB-1598	E-SB-1598-8-10	01/11/2017	01/19/2017	8-10	0.5
E-SB-1599	E-SB-1599-10-12	01/11/2017	01/20/2017	10-12	0 U
E-SB-1599	E-SB-1599-12-14	01/11/2017	01/20/2017	12-14	0.057
E-SB-1599	E-SB-1599-14-16	01/11/2017	01/20/2017	14-16	0.7
E-SB-1599	E-SB-1599-8-10	01/11/2017	01/19/2017	8-10	0.023
E-SB-1600	E-SB-1600-10-12	01/11/2017	01/20/2017	10-12	0 U
E-SB-1600	E-SB-1600-12-14	01/11/2017	01/20/2017	12-14	0 U
E-SB-1600	E-SB-1600-14-16	01/11/2017	01/20/2017	14-16	0.032
E-SB-1600	E-SB-1600-8-10	01/11/2017	01/20/2017	8-10	0 U
E-SB-1601	E-SB-1601-10-12	01/11/2017	01/20/2017	10-12	22
E-SB-1601	E-SB-1601-12-14	01/11/2017	01/20/2017	12-14	1700
E-SB-1601	E-SB-1601-14-16	01/11/2017	01/20/2017	14-16	0.29
E-SB-1601	E-SB-1601-8-10	01/11/2017	01/20/2017	8-10	0.91
E-SB-1602	E-SB-1602-2-4	01/12/2017	01/19/2017	2-4	0.08
E-SB-1602	E-SB-1602-4-6	01/12/2017	01/19/2017	4-6	1.8
E-SB-1602	E-SB-1602-6-8	01/12/2017	01/19/2017	6-8	300
E-SB-1603	E-SB-1603-2-4	01/12/2017	01/19/2017	2-4	0.2
E-SB-1603	E-SB-1603-4-6	01/12/2017	01/19/2017	4-6	0.35
E-SB-1603	E-SB-1603-6-8	01/12/2017	01/19/2017	6-8	0.11
E-SB-1604	E-SB-1604-10-12	01/12/2017	01/19/2017	10-12	0.061
E-SB-1604	E-SB-1604-12-14	01/12/2017	01/19/2017	12-14	0 U
E-SB-1604	E-SB-1604-14-16	01/12/2017	01/19/2017	14-16	0 U
E-SB-1604	E-SB-1604-16-18	01/12/2017	01/19/2017	16-18	0 U
E-SB-1604	E-SB-1604-18-20	01/12/2017	01/19/2017	18-20	0 U
E-SB-1604	E-SB-1604-4-6	01/12/2017	01/19/2017	4-6	0.17
E-SB-1604	E-SB-1604-6-8	01/12/2017	01/19/2017	6-8	1.3
E-SB-1604	E-SB-1604-8-10	01/12/2017	01/19/2017	8-10	0.073
E-SB-1604	E-SB-1604-8-10-D	01/12/2017	01/20/2017	8-10	0.023
E-SB-1605	E-SB-1605-10-12	01/12/2017	01/21/2017	10-12	0.65

Table 2-2

Summary of Total Aroclor Concentrations in Subsurface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
E-SB-1605	E-SB-1605-12-14	01/12/2017	01/21/2017	12-14	0.097
E-SB-1605	E-SB-1605-14-16	01/12/2017	01/21/2017	14-16	0 U
E-SB-1605	E-SB-1605-16-18	01/12/2017	01/21/2017	16-18	0 U
E-SB-1605	E-SB-1605-18-20	01/12/2017	01/21/2017	18-20	0 U
E-SB-1605	E-SB-1605-4-6	01/12/2017	01/19/2017	4-6	0.045
E-SB-1605	E-SB-1605-6-8	01/12/2017	01/21/2017	6-8	0 U
E-SB-1605	E-SB-1605-8-10	01/12/2017	01/21/2017	8-10	0 U
E-SB-1606	E-SB-1606-10-12	01/12/2017	01/21/2017	10-12	0.051
E-SB-1606	E-SB-1606-12-14	01/12/2017	01/21/2017	12-14	0 U
E-SB-1606	E-SB-1606-14-16	01/12/2017	01/21/2017	14-16	0 U
E-SB-1606	E-SB-1606-16-18	01/12/2017	01/21/2017	16-18	0 U
E-SB-1606	E-SB-1606-18-20	01/12/2017	01/21/2017	18-20	0 U
E-SB-1606	E-SB-1606-4-6	01/12/2017	01/21/2017	4-6	0 U
E-SB-1606	E-SB-1606-4-6-D	01/12/2017	01/24/2017	4-6	0 U
E-SB-1606	E-SB-1606-6-8	01/12/2017	01/21/2017	6-8	0 U
E-SB-1606	E-SB-1606-8-10	01/12/2017	01/21/2017	8-10	0 U
E-SB-1607	E-SB-1607-10-12	01/12/2017	01/25/2017	10-12	0.032
E-SB-1607	E-SB-1607-12-14	01/12/2017	01/25/2017	12-14	0.43
E-SB-1607	E-SB-1607-14-16	01/12/2017	01/24/2017	14-16	0 U
E-SB-1607	E-SB-1607-16-18	01/12/2017	01/24/2017	16-18	0 U
E-SB-1607	E-SB-1607-18-20	01/12/2017	01/24/2017	18-20	0 U
E-SB-1607	E-SB-1607-20-22	01/12/2017	01/24/2017	20-22	0 U
E-SB-1607	E-SB-1607-4-6	01/12/2017	01/25/2017	4-6	0 U
E-SB-1607	E-SB-1607-6-8	01/12/2017	01/25/2017	6-8	0 U
E-SB-1607	E-SB-1607-8-10	01/12/2017	01/25/2017	8-10	0 U
E-SB-1608	E-SB-1608-10-12	01/04/2017	01/11/2017	10-12	0.054
E-SB-1608	E-SB-1608-12-14	01/04/2017	01/11/2017	12-14	0 U
E-SB-1608	E-SB-1608-14-16	01/04/2017	01/11/2017	14-16	0 U
E-SB-1608	E-SB-1608-16-18	01/04/2017	01/11/2017	16-18	0 U
E-SB-1608	E-SB-1608-18-20	01/04/2017	01/11/2017	18-20	0 U
E-SB-1609	E-SB-1609-10-12	01/04/2017	01/11/2017	10-12	0 U
E-SB-1609	E-SB-1609-12-14	01/04/2017	01/11/2017	12-14	0 U
E-SB-1609	E-SB-1609-14-16	01/04/2017	01/11/2017	14-16	0 U
E-SB-1609	E-SB-1609-16-18	01/04/2017	01/11/2017	16-18	0 U
E-SB-1609	E-SB-1609-18-20	01/04/2017	01/11/2017	18-20	0 U
E-SB-1610	E-SB-1610-10-12	01/04/2017	01/11/2017	10-12	0 U
E-SB-1610	E-SB-1610-12-14	01/04/2017	01/11/2017	12-14	0 U
E-SB-1610	E-SB-1610-14-16	01/04/2017	01/11/2017	14-16	0 U
E-SB-1610	E-SB-1610-16-18	01/04/2017	01/11/2017	16-18	0 U
E-SB-1610	E-SB-1610-18-20	01/04/2017	01/11/2017	18-20	0 U
E-SB-1611	E-SB-1611-10-12	01/05/2017	01/11/2017	10-12	0 U
E-SB-1611	E-SB-1611-12-14	01/05/2017	01/11/2017	12-14	0 U

Table 2-2

Summary of Total Aroclor Concentrations in Subsurface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
E-SB-1611	E-SB-1611-14-16	01/05/2017	01/11/2017	14-16	0 U
E-SB-1611	E-SB-1611-16-18	01/05/2017	01/11/2017	16-18	0 U
E-SB-1611	E-SB-1611-18-20	01/05/2017	01/11/2017	18-20	0 U
E-SB-1612	E-SB-1612-10-12	01/05/2017	01/12/2017	10-12	0 U
E-SB-1612	E-SB-1612-12-14	01/05/2017	01/12/2017	12-14	0 U
E-SB-1612	E-SB-1612-14-16	01/05/2017	01/12/2017	14-16	0 U
E-SB-1612	E-SB-1612-16-18	01/05/2017	01/12/2017	16-18	0 U
E-SB-1612	E-SB-1612-18-20	01/05/2017	01/12/2017	18-20	0 U
E-SB-1613	E-SB-1613-02-04	01/05/2017	01/12/2017	2-4	0 U
E-SB-1613	E-SB-1613-04-06	01/05/2017	01/12/2017	4-6	0 U
E-SB-1613	E-SB-1613-06-08	01/05/2017	01/12/2017	6-8	52
E-SB-1613	E-SB-1613-06-08-	01/05/2017	01/12/2017	6-8	220
E-SB-1613	E-SB-1613-08-10	01/05/2017	01/12/2017	8-10	0.028
E-SB-1613	E-SB-1613-10-12	01/05/2017	01/12/2017	10-12	190
E-SB-1613	E-SB-1613-12-14	01/05/2017	01/12/2017	12-14	5.6
E-SB-1613	E-SB-1613-14-16	01/05/2017	01/12/2017	14-16	160
E-SB-1613	E-SB-1613-16-18	01/05/2017	01/12/2017	16-18	0.047
E-SB-1613	E-SB-1613-18-20	01/05/2017	01/12/2017	18-20	190
E-SB-1614	E-SB-1614-10-12	01/05/2017	01/12/2017	10-12	0 U
E-SB-1614	E-SB-1614-12-14	01/05/2017	01/12/2017	12-14	0 U
E-SB-1614	E-SB-1614-14-16	01/05/2017	01/12/2017	14-16	0 U
E-SB-1614	E-SB-1614-16-18	01/05/2017	01/12/2017	16-18	0 U
E-SB-1614	E-SB-1614-18-20	01/05/2017	01/12/2017	18-20	0 U
E-SB-1615	E-SB-1615-10-12	01/06/2017	01/12/2017	10-12	0 U
E-SB-1615	E-SB-1615-12-14	01/06/2017	01/12/2017	12-14	0 U
E-SB-1615	E-SB-1615-14-16	01/06/2017	01/12/2017	14-16	0.023
E-SB-1615	E-SB-1615-16-18	01/06/2017	01/12/2017	16-18	0 U
E-SB-1615	E-SB-1615-18-20	01/06/2017	01/12/2017	18-20	0 U
E-SB-1615	E-SB-1615-4-6	01/06/2017	01/12/2017	4-6	0 U
E-SB-1615	E-SB-1615-6-8	01/06/2017	01/12/2017	6-8	0.12
E-SB-1615	E-SB-1615-8-10	01/06/2017	01/12/2017	8-10	0 U
E-SB-1616	E-SB-1616-10-12	01/06/2017	01/12/2017	10-12	0 U
E-SB-1616	E-SB-1616-12-14	01/06/2017	01/12/2017	12-14	0.23
E-SB-1616	E-SB-1616-14-16	01/06/2017	01/12/2017	14-16	0 U
E-SB-1616	E-SB-1616-16-18	01/06/2017	01/12/2017	16-18	0.23
E-SB-1616	E-SB-1616-18-20	01/06/2017	01/12/2017	18-20	2.3
E-SB-1616	E-SB-1616-2-4	01/06/2017	01/12/2017	2-4	340
E-SB-1616	E-SB-1616-4-6	01/06/2017	01/12/2017	4-6	100
E-SB-1616	E-SB-1616-6-8	01/06/2017	01/12/2017	6-8	0 U
E-SB-1616	E-SB-1616-8-10	01/06/2017	01/12/2017	8-10	0.029
E-SB-1616	E-SB-1616-8-10-D	01/06/2017	01/12/2017	8-10	0.33
E-SB-1617	E-SB-1617-11-13	01/06/2017	01/12/2017	11-13	10

Table 2-2

Summary of Total Aroclor Concentrations in Subsurface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
E-SB-1617	E-SB-1617-11-13-	01/06/2017	01/12/2017	11-13	6.3
E-SB-1617	E-SB-1617-13-15	01/06/2017	01/12/2017	13-15	2.1
E-SB-1617	E-SB-1617-9-11	01/06/2017	01/12/2017	9-11	240
E-SB-1618	E-SB-1618-10-12	01/13/2017	01/25/2017	10-12	1.3
E-SB-1618	E-SB-1618-12-14	01/13/2017	01/25/2017	12-14	0.82
E-SB-1618	E-SB-1618-14-16	01/13/2017	01/25/2017	14-16	0 U
E-SB-1618	E-SB-1618-16-18	01/13/2017	01/25/2017	16-18	0 U
E-SB-1618	E-SB-1618-18-20	01/13/2017	01/25/2017	18-20	8.7
E-SB-1618	E-SB-1618-2-4	01/13/2017	01/25/2017	2-4	0.47
E-SB-1618	E-SB-1618-4-6	01/13/2017	01/25/2017	4-6	22
E-SB-1618	E-SB-1618-6-8	01/13/2017	01/25/2017	6-8	31
E-SB-1618	E-SB-1618-8-10	01/13/2017	01/25/2017	8-10	0.16
E-SB-1619	E-SB-1619-10-12	01/13/2017	01/25/2017	10-12	0 U
E-SB-1619	E-SB-1619-12-14	01/13/2017	01/25/2017	12-14	0 U
E-SB-1619	E-SB-1619-14-16	01/13/2017	01/25/2017	14-16	0 U
E-SB-1619	E-SB-1619-16-18	01/13/2017	01/25/2017	16-18	0 U
E-SB-1619	E-SB-1619-18-20	01/13/2017	01/25/2017	18-20	0 U
E-SB-1620	E-SB-1620-10-12	01/16/2017	01/25/2017	10-12	0 U
E-SB-1620	E-SB-1620-12-14	01/16/2017	01/25/2017	12-14	200
E-SB-1620	E-SB-1620-14-16	01/16/2017	01/25/2017	14-16	27
E-SB-1620	E-SB-1620-16-18	01/16/2017	01/25/2017	16-18	0 U
E-SB-1620	E-SB-1620-16-18-	01/16/2017	01/25/2017	16-18	0.13
E-SB-1620	E-SB-1620-18-20	01/16/2017	01/25/2017	18-20	0.028
E-SB-1621	E-SB-1621-10-12	01/16/2017	01/30/2017	10-12	1.1
E-SB-1621	E-SB-1621-12-14	01/16/2017	01/25/2017	12-14	0.32
E-SB-1621	E-SB-1621-14-16	01/16/2017	01/25/2017	14-16	0.26
E-SB-1621	E-SB-1621-16-18	01/16/2017	01/25/2017	16-18	0.3
E-SB-1621	E-SB-1621-18-20	01/16/2017	01/25/2017	18-20	0.12
E-SB-1622	E-SB-1622-10-12	01/16/2017	01/25/2017	10-12	0.036
E-SB-1622	E-SB-1622-12-14	01/16/2017	01/25/2017	12-14	27
E-SB-1622	E-SB-1622-14-16	01/16/2017	01/25/2017	14-16	0.2
E-SB-1622	E-SB-1622-16-18	01/16/2017	01/26/2017	16-18	5.1
E-SB-1622	E-SB-1622-18-20	01/16/2017	01/26/2017	18-20	5.7
E-SB-1622	E-SB-1622-2-4	01/16/2017	01/25/2017	2-4	0.071
E-SB-1622	E-SB-1622-4-6	01/16/2017	01/25/2017	4-6	0 U
E-SB-1622	E-SB-1622-6-8	01/16/2017	01/25/2017	6-8	0 U
E-SB-1622	E-SB-1622-8-10	01/16/2017	01/25/2017	8-10	0 U
E-SB-1623	E-SB-1623-10-12	01/17/2017	01/26/2017	10-12	0.026
E-SB-1623	E-SB-1623-12-14	01/17/2017	01/26/2017	12-14	0 U
E-SB-1623	E-SB-1623-14-16	01/17/2017	01/26/2017	14-16	0 U
E-SB-1623	E-SB-1623-16-18	01/17/2017	01/26/2017	16-18	0 U
E-SB-1623	E-SB-1623-18-20	01/17/2017	01/26/2017	18-20	0 U

Table 2-2

Summary of Total Aroclor Concentrations in Subsurface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
E-SB-1624	E-SB-1624-10-12	01/17/2017	01/26/2017	10-12	0 U
E-SB-1624	E-SB-1624-12-14	01/17/2017	01/26/2017	12-14	0 U
E-SB-1624	E-SB-1624-14-16	01/17/2017	01/26/2017	14-16	0 U
E-SB-1624	E-SB-1624-14-16-	01/17/2017	01/26/2017	14-16	0 U
E-SB-1624	E-SB-1624-16-18	01/17/2017	01/26/2017	16-18	0 U
E-SB-1624	E-SB-1624-18-20	01/17/2017	01/26/2017	18-20	0 U
E-SB-1625	E-SB-1625-10-12	01/17/2017	01/26/2017	10-12	0 U
E-SB-1625	E-SB-1625-12-14	01/17/2017	01/26/2017	12-14	0 U
E-SB-1625	E-SB-1625-14-16	01/17/2017	01/26/2017	14-16	0 U
E-SB-1625	E-SB-1625-16-18	01/17/2017	01/26/2017	16-18	0 U
E-SB-1625	E-SB-1625-18-20	01/17/2017	01/26/2017	18-20	0 U
E-SB-1626	E-SB-1626-2-4	01/24/2017	01/31/2017	2-4	0.1
E-SB-1626	E-SB-1626-4-6	01/24/2017	01/31/2017	4-6	1.7
E-SB-1626	E-SB-1626-6-8	01/24/2017	01/31/2017	6-8	0 U
E-SB-1627	E-SB-1627-2-4	01/24/2017	01/31/2017	2-4	0.041
E-SB-1627	E-SB-1627-4-6	01/24/2017	01/31/2017	4-6	5.7
E-SB-1627	E-SB-1627-6-8	01/24/2017	01/31/2017	6-8	0.022
E-SB-1633	E-SB-1633-2-4	01/23/2017	01/27/2017	2-4	0 U
E-SB-1713	E-SB-1713-2-3	01/25/2017	02/10/2017	2-3	3500
E-SB-1718	E-SB-1718-2-3	11/12/2017	11/28/2017	2-3	0.026
E-SB-1718	E-SB-1718-3-4	11/12/2017	11/28/2017	3-4	0 U
E-SB-1720	E-SB-1720-10-12	11/10/2017	11/22/2017	10-12	22
E-SB-1721	E-SB-1721-2-3	11/12/2017	11/28/2017	2-3	0 U
E-SB-1721	E-SB-1721-3-4	11/12/2017	11/28/2017	3-4	0 U
E-SB-1722	E-SB-1722-2-3	11/12/2017	11/28/2017	2-3	0.069
E-SB-1722	E-SB-1722-3-4	11/12/2017	11/28/2017	3-4	0.025
E-SB-1724	E-SB-1724-15-16	11/07/2017	11/15/2017	15-16	9.9
E-SB-1724	E-SB-1724-16-18	11/07/2017	11/15/2017	16-18	0.17
E-SB-1724	E-SB-1724-18-20	11/07/2017	11/15/2017	18-20	0.49
E-SB-1724	E-SB-1724-20-22	11/07/2017	11/15/2017	20-22	0 U
E-SB-1724	E-SB-1724-22-24	11/07/2017	11/15/2017	22-24	0 U
E-SB-1724	E-SB-1724-24-26	11/07/2017	11/15/2017	24-26	0 U
E-SB-1724	E-SB-1724-26-28	11/07/2017	11/15/2017	26-28	0 U
E-SB-1724	E-SB-1724-28-30	11/07/2017	11/15/2017	28-30	0 U
E-SB-1724	E-SB-1724-30-32	11/07/2017	11/15/2017	30-32	0.026
E-SB-1724	E-SB-1724-32-34	11/07/2017	11/15/2017	32-34	0 U
E-SB-1724	E-SB-1724-34-36	11/07/2017	11/15/2017	34-36	0 U
E-SB-1724	E-SB-1724-36-38	11/07/2017	11/15/2017	36-38	0 U
E-SB-1724	E-SB-1724-38-40	11/07/2017	11/15/2017	38-40	0 U
E-SB-1725	E-SB-1725-10-12	11/08/2017	11/15/2017	10-12	0.83
E-SB-1725	E-SB-1725-12-14	11/08/2017	11/15/2017	12-14	0.35
E-SB-1725	E-SB-1725-14-16	11/08/2017	11/15/2017	14-16	0.34

Table 2-2

Summary of Total Aroclor Concentrations in Subsurface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
E-SB-1725	E-SB-1725-16-18	11/08/2017	11/15/2017	16-18	0.028
E-SB-1725	E-SB-1725-16-18-	11/08/2017	11/13/2017	16-18	0.021
E-SB-1725	E-SB-1725-18-20	11/08/2017	11/15/2017	18-20	0.061
E-SB-1725	E-SB-1725-20-22	11/08/2017	11/15/2017	20-22	0.71
E-SB-1725	E-SB-1725-22-24	11/08/2017	11/15/2017	22-24	0.26
E-SB-1725	E-SB-1725-24-26	11/08/2017	11/15/2017	24-26	0.088
E-SB-1725	E-SB-1725-26-28	11/08/2017	11/15/2017	26-28	0.6
E-SB-1725	E-SB-1725-28-30	11/08/2017	11/15/2017	28-30	0.22
E-SB-1725	E-SB-1725-30-32	11/08/2017	11/15/2017	30-32	0.029
E-SB-1725	E-SB-1725-32-34	11/08/2017	11/15/2017	32-34	0 U
E-SB-1725	E-SB-1725-34-36	11/08/2017	11/15/2017	34-36	0 U
E-SB-1725	E-SB-1725-36-38	11/08/2017	11/15/2017	36-38	0 U
E-SB-1725	E-SB-1725-38-40	11/08/2017	11/13/2017	38-40	0 U
E-SB-1726	E-SB-1726-10-12	11/09/2017	11/16/2017	10-12	0 U
E-SB-1726	E-SB-1726-12-14	11/09/2017	11/16/2017	12-14	0 U
E-SB-1726	E-SB-1726-14-16	11/09/2017	11/17/2017	14-16	0 U
E-SB-1726	E-SB-1726-16-18	11/09/2017	11/17/2017	16-18	0 U
E-SB-1726	E-SB-1726-18-20	11/09/2017	11/17/2017	18-20	0 U
E-SB-1727	E-SB-1727-10-12	11/08/2017	11/16/2017	10-12	0.13
E-SB-1727	E-SB-1727-12-14	11/08/2017	11/16/2017	12-14	0 U
E-SB-1727	E-SB-1727-14-16	11/08/2017	11/16/2017	14-16	0.027
E-SB-1727	E-SB-1727-16-18	11/08/2017	11/16/2017	16-18	0.73
E-SB-1727	E-SB-1727-18-20	11/08/2017	11/16/2017	18-20	0 U
E-SB-1727	E-SB-1727-20-22	11/08/2017	11/16/2017	20-22	0.056
E-SB-1728	E-SB-1728-10-12	11/08/2017	11/13/2017	10-12	0.045
E-SB-1728	E-SB-1728-12-14	11/08/2017	11/13/2017	12-14	0 U
E-SB-1728	E-SB-1728-14-16	11/08/2017	11/13/2017	14-16	0.067
E-SB-1728	E-SB-1728-16-18	11/08/2017	11/13/2017	16-18	0.26
E-SB-1728	E-SB-1728-18-20	11/08/2017	11/13/2017	18-20	0 U
E-SB-1728	E-SB-1728-8-10	11/08/2017	11/13/2017	8-10	0.54
E-SB-1728	E-SB-1728-8-10-I	11/08/2017	11/13/2017	8-10	750
E-SB-1729	E-SB-1729-10-12	11/09/2017	11/21/2017	10-12	0 U
E-SB-1729	E-SB-1729-12-14	11/09/2017	11/22/2017	12-14	0 U
E-SB-1729	E-SB-1729-2-4	11/09/2017	11/21/2017	2-4	0 U
E-SB-1729	E-SB-1729-4-6	11/09/2017	11/21/2017	4-6	0 U
E-SB-1729	E-SB-1729-4-6-D	11/09/2017	11/22/2017	4-6	0 U
E-SB-1729	E-SB-1729-6-8	11/09/2017	11/21/2017	6-8	0 U
E-SB-1729	E-SB-1729-8-10	11/09/2017	11/21/2017	8-10	0 U
E-SB-1730	E-SB-1730-10-12	11/09/2017	11/22/2017	10-12	3.8
E-SB-1730	E-SB-1730-12-14	11/09/2017	11/22/2017	12-14	0.035
E-SB-1730	E-SB-1730-3-4	11/09/2017	11/21/2017	3-4	0.16
E-SB-1730	E-SB-1730-4-6	11/09/2017	11/21/2017	4-6	0 U

Table 2-2

Summary of Total Aroclor Concentrations in Subsurface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
E-SB-1730	E-SB-1730-6-8	11/09/2017	11/21/2017	6-8	0 U
E-SB-1730	E-SB-1730-8-10	11/09/2017	11/22/2017	8-10	0 U
E-SB-1731	E-SB-1731-10-12	11/07/2017	11/15/2017	10-12	50
E-SB-1731	E-SB-1731-12-14	11/07/2017	11/15/2017	12-14	0.17
E-SB-1731	E-SB-1731-32-34	11/07/2017	11/15/2017	32-34	0 U
E-SB-1731	E-SB-1731-34-36	11/07/2017	11/15/2017	34-36	0.27
E-SB-1731	E-SB-1731-36-38	11/07/2017	11/15/2017	36-38	0.061
E-SB-1731	E-SB-1731-38-40	11/07/2017	11/15/2017	38-40	0.034
E-SB-1732	E-SB-1732-10-12	11/08/2017	11/16/2017	10-12	1.2
E-SB-1732	E-SB-1732-12-14	11/08/2017	11/16/2017	12-14	2.7
E-SB-1732	E-SB-1732-14-16	11/08/2017	11/16/2017	14-16	1.7
E-SB-1732	E-SB-1732-16-18	11/08/2017	11/16/2017	16-18	0.45
E-SB-1732	E-SB-1732-18-20	11/08/2017	11/16/2017	18-20	1.3
E-SB-1732	E-SB-1732-20-22	11/08/2017	11/16/2017	20-22	0.35
E-SB-1733	E-SB-1733-10-12	11/09/2017	11/17/2017	10-12	0 U
E-SB-1733	E-SB-1733-4-6	11/09/2017	11/17/2017	4-6	0 U
E-SB-1733	E-SB-1733-6-8	11/09/2017	11/17/2017	6-8	0 U
E-SB-1733	E-SB-1733-8-10	11/09/2017	11/24/2017	8-10	0.044
E-SB-1734	E-SB-1734-10-12	11/10/2017	11/22/2017	10-12	670
E-SB-1734	E-SB-1734-12-14	11/10/2017	12/14/2017	12-14	0.77
E-SB-1734	E-SB-1734-14-16	11/10/2017	12/14/2017	14-16	28
E-SB-1734	E-SB-1734-16-18	11/10/2017	12/14/2017	16-18	1.1
E-SB-1734	E-SB-1734-18-20	11/10/2017	12/14/2017	18-20	0.33
E-SB-1734	E-SB-1734-4-6	11/10/2017	11/22/2017	4-6	0.028
E-SB-1734	E-SB-1734-6-8	11/10/2017	11/22/2017	6-8	0.03
E-SB-1734	E-SB-1734-6-8-D	11/10/2017	11/24/2017	6-8	0.04
E-SB-1734	E-SB-1734-8-10	11/10/2017	11/22/2017	8-10	0.04
E-SB-1735	E-SB-1735-16-18	11/10/2017	11/22/2017	16-18	0.97
E-SB-1735	E-SB-1735-16-18-	11/10/2017	11/24/2017	16-18	0.046
E-SB-1735	E-SB-1735-18-20	11/10/2017	11/22/2017	18-20	0.028
E-SB-1735	E-SB-1735-20-22	11/10/2017	11/22/2017	20-22	1.6
E-SB-1736	E-SB-1736-10-12	11/10/2017	11/23/2017	10-12	0 U
E-SB-1736	E-SB-1736-12-14	11/10/2017	11/24/2017	12-14	0 U
E-SB-1736	E-SB-1736-14-16	11/10/2017	11/17/2017	14-16	0 U
E-SB-1736	E-SB-1736-16-18	11/10/2017	11/24/2017	16-18	150
E-SB-1736	E-SB-1736-18-20	11/10/2017	11/24/2017	18-20	0.13
E-SB-1736	E-SB-1736-20-22	11/10/2017	11/25/2017	20-22	0.088
E-SB-1736	E-SB-1736-22-24	11/10/2017	11/25/2017	22-24	0 U
E-SB-1736	E-SB-1736-22-24-	11/10/2017	11/25/2017	22-24	0.32
E-SB-1736	E-SB-1736-8-10	11/10/2017	11/22/2017	8-10	0.034
E-SB-1737	E-SB-1737-10-12	11/09/2017	11/23/2017	10-12	0.51
E-SB-1737	E-SB-1737-12-14	11/09/2017	11/23/2017	12-14	130

Table 2-2

Summary of Total Aroclor Concentrations in Subsurface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
E-SB-1737	E-SB-1737-14-16	11/09/2017	11/23/2017	14-16	21
E-SB-1737	E-SB-1737-16-18	11/09/2017	11/23/2017	16-18	0 U
E-SB-1737	E-SB-1737-18-20	11/09/2017	11/23/2017	18-20	0.13
E-SB-1737	E-SB-1737-6-8	11/09/2017	11/23/2017	6-8	250
E-SB-1737	E-SB-1737-8-10	11/09/2017	11/23/2017	8-10	310
E-SB-1738	E-SB-1738-10-12	11/10/2017	11/25/2017	10-12	1500
E-SB-1738	E-SB-1738-12-14	11/10/2017	11/25/2017	12-14	1500
E-SB-1738	E-SB-1738-14-16	11/10/2017	11/25/2017	14-16	970
E-SB-1738	E-SB-1738-16-18	11/10/2017	11/25/2017	16-18	0.63
E-SB-1738	E-SB-1738-18-20	11/10/2017	11/25/2017	18-20	4.6
E-SB-1738	E-SB-1738-2-4	11/10/2017	11/23/2017	2-4	45
E-SB-1738	E-SB-1738-20-22	11/10/2017	11/25/2017	20-22	1.2
E-SB-1738	E-SB-1738-4-6	11/10/2017	11/25/2017	4-6	5900
E-SB-1738	E-SB-1738-4-6-D	11/10/2017	11/25/2017	4-6	960
E-SB-1738	E-SB-1738-6-8	11/10/2017	11/23/2017	6-8	470
E-SB-1738	E-SB-1738-8-10	11/10/2017	11/25/2017	8-10	4.3
E-SB-1739	E-SB-1739-18-20	11/11/2017	11/25/2017	18-20	0.066
E-SB-1739	E-SB-1739-18-20-	11/11/2017	11/25/2017	18-20	0.11
E-SB-1739	E-SB-1739-20-22	11/11/2017	11/25/2017	20-22	1.3
E-SB-1739	E-SB-1739-22-24	11/11/2017	11/25/2017	22-24	0.12
E-SB-1739	E-SB-1739-24-26	11/11/2017	11/25/2017	24-26	0.052
E-SB-1739	E-SB-1739-26-28	11/11/2017	11/25/2017	26-28	0.027
E-SB-1739	E-SB-1739-28-30	11/11/2017	11/25/2017	28-30	0 U
E-SB-1740	E-SB-1740-10-12	11/11/2017	11/27/2017	10-12	1100
E-SB-1740	E-SB-1740-12-14	11/11/2017	11/25/2017	12-14	110
E-SB-1740	E-SB-1740-14-16	11/11/2017	11/25/2017	14-16	2.8
E-SB-1740	E-SB-1740-16-18	11/11/2017	11/25/2017	16-18	4.8
E-SB-1740	E-SB-1740-18-20	11/11/2017	11/25/2017	18-20	16
E-SB-1740	E-SB-1740-20-22	11/11/2017	11/25/2017	20-22	0.97
E-SB-1740	E-SB-1740-6-8	11/11/2017	11/25/2017	6-8	66
E-SB-1740	E-SB-1740-6-8-D	11/11/2017	11/25/2017	6-8	38
E-SB-1740	E-SB-1740-8-10	11/11/2017	11/25/2017	8-10	45
E-SB-1741	E-SB-1741-10-12	11/11/2017	11/25/2017	10-12	0.038
E-SB-1741	E-SB-1741-2-4	11/11/2017	11/25/2017	2-4	0.075
E-SB-1741	E-SB-1741-4-6	11/11/2017	11/25/2017	4-6	0 U
E-SB-1741	E-SB-1741-6-8	11/11/2017	11/25/2017	6-8	0 U
E-SB-1741	E-SB-1741-8-10	11/11/2017	11/25/2017	8-10	0 U
E-SB-1744	E-SB-1744-2-4	11/12/2017	11/24/2017	2-4	2.5
E-SB-1744	E-SB-1744-2-4-D	11/12/2017	11/27/2017	2-4	6.4
E-SB-1744	E-SB-1744-4-6	11/12/2017	11/24/2017	4-6	0.064
E-SB-1744	E-SB-1744-6-8	11/12/2017	11/24/2017	6-8	0.042
E-SB-1744	E-SB-1744-8-10	11/12/2017	11/25/2017	8-10	0.018

Table 2-2

Summary of Total Aroclor Concentrations in Subsurface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
E-SB-1747	E-SB-1747-10-12	11/12/2017	11/24/2017	10-12	0.018
E-SB-1747	E-SB-1747-6-8	11/12/2017	11/25/2017	6-8	0.022
E-SB-1747	E-SB-1747-6-8-D	11/12/2017	11/25/2017	6-8	0.041
E-SB-1747	E-SB-1747-8-10	11/12/2017	11/24/2017	8-10	0.018
E-SB-1748	E-SB-1748-2-4	11/12/2017	11/28/2017	2-4	0.023
E-SB-1748	E-SB-1748-4-6	11/12/2017	11/28/2017	4-6	0 U
E-SB-1749	E-SB-1749-2-4	11/12/2017	11/27/2017	2-4	0.58
E-SB-1749	E-SB-1749-4-6	11/12/2017	11/27/2017	4-6	0.027
E-SB-1750	E-SB-1750-10-12	11/12/2017	11/27/2017	10-12	0.29
E-SB-1750	E-SB-1750-3-4	11/12/2017	11/27/2017	3-4	0.2
E-SB-1750	E-SB-1750-4-6	11/12/2017	11/27/2017	4-6	0.032
E-SB-1750	E-SB-1750-6-8	11/12/2017	11/27/2017	6-8	0.079
E-SB-1750	E-SB-1750-8-10	11/12/2017	11/27/2017	8-10	0.064
E-SB-1751	E-SB-1751-10-12	11/12/2017	11/27/2017	10-12	0.034
E-SB-1751	E-SB-1751-2-3	11/12/2017	11/28/2017	2-3	1100
E-SB-1751	E-SB-1751-3-4	11/12/2017	11/27/2017	3-4	1.1
E-SB-1751	E-SB-1751-4-6	11/12/2017	11/27/2017	4-6	0.035
E-SB-1751	E-SB-1751-6-8	11/12/2017	11/27/2017	6-8	0.041
E-SB-1751	E-SB-1751-8-10	11/12/2017	11/27/2017	8-10	0.041
E-SB-1752	E-SB-1752-3-4	11/12/2017	11/27/2017	3-4	0.13
E-SB-1752	E-SB-1752-4-6	11/12/2017	11/27/2017	4-6	0 U
E-SB-1753	E-SB-1753-3-4	11/12/2017	11/28/2017	3-4	1.7
E-SB-1753	E-SB-1753-4-6	11/12/2017	11/28/2017	4-6	0.69
E-SB-1753	E-SB-1753-6-8	11/12/2017	11/27/2017	6-8	0 U
E-SB-1753	E-SB-1753-8-10	11/12/2017	11/27/2017	8-10	0 U
E-SB-1753	E-SB-1753-8-10-D	11/12/2017	11/27/2017	8-10	0 U
E-SB-1754	E-SB-1754-10-12	11/12/2017	11/28/2017	10-12	0.066
E-SB-1754	E-SB-1754-2-3	11/12/2017	11/27/2017	2-3	74
E-SB-1754	E-SB-1754-3-4	11/12/2017	11/27/2017	3-4	2.5
E-SB-1754	E-SB-1754-4-6	11/12/2017	11/27/2017	4-6	0.1
E-SB-1754	E-SB-1754-4-6-D	11/12/2017	11/27/2017	4-6	0.041
E-SB-1754	E-SB-1754-6-8	11/12/2017	11/27/2017	6-8	0.045
E-SB-1754	E-SB-1754-8-10	11/12/2017	11/28/2017	8-10	0.02
E-SB-1755	E-SB-1755-3-4	11/12/2017	11/27/2017	3-4	0.52
E-SB-1755	E-SB-1755-4-6	11/12/2017	11/27/2017	4-6	0.03
SB-818	E-SB-818-03	09/15/2010	09/24/2010	3-3	0 U
SB-818	E-SB-818-05	09/15/2010	09/24/2010	5-5	0 U
SB-818	E-SB-818-07	09/15/2010	09/24/2010	7-7	0 U
SB-818	E-SB-818-09	09/15/2010	09/24/2010	9-9	0 U
SB-818	E-SB-818-11	09/15/2010	09/24/2010	11-11	0 U
SB-818	E-SB-818-13	09/15/2010	09/28/2010	13-13	0 U
SB-818	E-SB-818-15	09/15/2010	09/28/2010	15-15	0 U

Table 2-2

Summary of Total Aroclor Concentrations in Subsurface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
SB-819	E-SB-819-03	09/15/2010	09/24/2010	3-3	0.096
SB-819	E-SB-819-05	09/15/2010	09/24/2010	5-5	0 U
SB-819	E-SB-819-07	09/15/2010	09/24/2010	7-7	0 U
SB-819	E-SB-819-07-D	09/15/2010	09/28/2010	7-7	0 U
SB-819	E-SB-819-09	09/15/2010	09/24/2010	9-9	0.054
SB-819	E-SB-819-11	09/15/2010	09/24/2010	11-11	0 U
SB-819	E-SB-819-13	09/15/2010	09/24/2010	13-13	0 U
SB-819	E-SB-819-15	09/15/2010	09/24/2010	15-15	0 U
SB-820	E-SB-820-03	09/15/2010	09/24/2010	3-3	0 U
SB-820	E-SB-820-05	09/15/2010	09/24/2010	5-5	0 U
SB-820	E-SB-820-07	09/15/2010	09/24/2010	7-7	0 U
SB-820	E-SB-820-09	09/15/2010	09/24/2010	9-9	0 U
SB-820	E-SB-820-11	09/15/2010	09/24/2010	11-11	0 U
SB-820	E-SB-820-13	09/15/2010	09/24/2010	13-13	0 U
SB-820	E-SB-820-15	09/15/2010	09/24/2010	15-15	0 U
SB-821	E-SB-821-03	09/16/2010	09/29/2010	3-3	0 U
SB-821	E-SB-821-05	09/16/2010	09/29/2010	5-5	0.037
SB-821	E-SB-821-07	09/16/2010	09/29/2010	7-7	0 U
SB-821	E-SB-821-09	09/16/2010	09/29/2010	9-9	0.06
SB-821	E-SB-821-09-D	09/16/2010	09/29/2010	9-9	0.023
SB-821	E-SB-821-11	09/16/2010	09/29/2010	11-11	0 U
SB-821	E-SB-821-13	09/16/2010	09/30/2010	13-13	0 U
SB-821	E-SB-821-15	09/16/2010	09/29/2010	15-15	0 U
SB-822	E-SB-822-03	09/15/2010	09/28/2010	3-3	0 U
SB-822	E-SB-822-05	09/15/2010	09/28/2010	5-5	0 U
SB-822	E-SB-822-05-D	09/15/2010	09/28/2010	5-5	0 U
SB-822	E-SB-822-07	09/15/2010	09/28/2010	7-7	0 U
SB-822	E-SB-822-09	09/15/2010	09/28/2010	9-9	0 U
SB-822	E-SB-822-11	09/15/2010	09/28/2010	11-11	0 U
SB-822	E-SB-822-13	09/15/2010	09/28/2010	13-13	0 U
SB-822	E-SB-822-15	09/15/2010	09/28/2010	15-15	0 U
SB-823	E-SB-823-05	09/15/2010	09/28/2010	5-5	0 U
SB-823	E-SB-823-07	09/15/2010	09/28/2010	7-7	0 U
SB-824	E-SB-824-03	09/15/2010	09/24/2010	3-3	0 U
SB-824	E-SB-824-05	09/15/2010	09/24/2010	5-5	0.037
SB-824	E-SB-824-07	09/15/2010	09/24/2010	7-7	0 U
SB-824	E-SB-824-07-D	09/15/2010	09/28/2010	7-7	0 U
SB-824	E-SB-824-09	09/15/2010	09/24/2010	9-9	0 U
SB-824	E-SB-824-11	09/15/2010	09/24/2010	11-11	0 U
SB-824	E-SB-824-13	09/15/2010	09/24/2010	13-13	0 U
SB-824	E-SB-824-15	09/15/2010	09/24/2010	15-15	0 U
SB-825	E-SB-825-03	09/13/2010	09/21/2010	3-3	0 U

Table 2-2

Summary of Total Aroclor Concentrations in Subsurface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
SB-825	E-SB-825-05	09/13/2010	09/21/2010	5-5	0 U
SB-825	E-SB-825-07	09/13/2010	09/21/2010	7-7	0 U
SB-825	E-SB-825-09	09/13/2010	09/21/2010	9-9	0 U
SB-825	E-SB-825-11	09/13/2010	09/21/2010	11-11	0 U
SB-825	E-SB-825-13	09/13/2010	09/21/2010	13-13	0 U
SB-825	E-SB-825-15	09/13/2010	09/21/2010	15-15	0 U
SB-826	E-SB-826-05	09/16/2010	09/28/2010	5-5	0 U
SB-826	E-SB-826-07	09/16/2010	09/28/2010	7-7	0 U
SB-826	E-SB-826-09	09/16/2010	09/28/2010	9-9	0 U
SB-826	E-SB-826-09-D	09/16/2010	09/30/2010	9-9	0 U
SB-826	E-SB-826-11	09/16/2010	09/28/2010	11-11	0 U
SB-826	E-SB-826-13	09/16/2010	09/28/2010	13-13	0 U
SB-826	E-SB-826-15	09/16/2010	09/28/2010	15-15	0 U
SB-827	E-SB-827-03	09/16/2010	09/29/2010	3-3	0 U
SB-827	E-SB-827-05	09/16/2010	09/29/2010	5-5	0 U
SB-827	E-SB-827-07	09/16/2010	09/29/2010	7-7	2.5
SB-827	E-SB-827-09	09/16/2010	09/29/2010	9-9	260
SB-827	E-SB-827-11	09/16/2010	09/30/2010	11-11	0 U
SB-827	E-SB-827-13	09/16/2010	10/04/2010	13-13	15
SB-827	E-SB-827-15	09/16/2010	09/29/2010	15-15	0.18
SB-828	E-SB-828-03	09/16/2010	10/01/2010	3-3	0.3
SB-828	E-SB-828-09	09/16/2010	09/23/2010	9-9	0.13
SB-828	E-SB-828-11	09/16/2010	09/22/2010	11-11	0.28
SB-828	E-SB-828-13	09/16/2010	10/01/2010	13-13	0.061
SB-828	E-SB-828-15	09/16/2010	10/01/2010	15-15	0.04
SB-829	E-SB-829-03	09/17/2010	09/30/2010	3-3	0 U
SB-829	E-SB-829-05	09/17/2010	09/30/2010	5-5	0 U
SB-829	E-SB-829-07	09/17/2010	09/30/2010	7-7	0 U
SB-829	E-SB-829-09	09/17/2010	09/30/2010	9-9	0 U
SB-829	E-SB-829-11	09/17/2010	09/30/2010	11-11	0 U
SB-829	E-SB-829-13	09/17/2010	09/30/2010	13-13	0.033
SB-829	E-SB-829-15	09/17/2010	09/30/2010	15-15	0 U
SB-830	E-SB-830-03	09/14/2010	09/25/2010	3-3	0 U
SB-830	E-SB-830-05	09/14/2010	09/25/2010	5-5	0 U
SB-830	E-SB-830-07	09/14/2010	09/25/2010	7-7	0 U
SB-830	E-SB-830-09	09/14/2010	09/25/2010	9-9	0 U
SB-830	E-SB-830-11	09/14/2010	09/25/2010	11-11	0 U
SB-830	E-SB-830-11-D	09/14/2010	09/25/2010	11-11	0 U
SB-830	E-SB-830-13	09/14/2010	09/25/2010	13-13	0.033
SB-830	E-SB-830-15	09/14/2010	09/24/2010	15-15	0 U
SB-831	E-SB-831-03	09/13/2010	09/21/2010	3-3	0 U
SB-831	E-SB-831-05	09/13/2010	09/21/2010	5-5	0 U

Table 2-2

Summary of Total Aroclor Concentrations in Subsurface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
SB-831	E-SB-831-07	09/13/2010	09/21/2010	7-7	0 U
SB-831	E-SB-831-09	09/13/2010	09/21/2010	9-9	0 U
SB-831	E-SB-831-11	09/13/2010	09/21/2010	11-11	0 U
SB-831	E-SB-831-13	09/13/2010	09/21/2010	13-13	0 U
SB-831	E-SB-831-15	09/13/2010	09/21/2010	15-15	0 U
SB-831	E-SB-831-15-D	09/13/2010	09/22/2010	15-15	0 U
SB-832	E-SB-832-05	09/17/2010	09/29/2010	5-5	0.063
SB-832	E-SB-832-07	09/17/2010	09/29/2010	7-7	0 U
SB-832	E-SB-832-09	09/17/2010	09/29/2010	9-9	0 U
SB-832	E-SB-832-11	09/17/2010	09/29/2010	11-11	0 U
SB-832	E-SB-832-13	09/17/2010	09/29/2010	13-13	0 U
SB-832	E-SB-832-15	09/17/2010	09/29/2010	15-15	0.033
SB-833	E-SB-833-03	09/16/2010	09/28/2010	3-3	0.33
SB-833	E-SB-833-05	09/16/2010	09/28/2010	5-5	0.14
SB-833	E-SB-833-07	09/16/2010	09/28/2010	7-7	0 U
SB-833	E-SB-833-09	09/16/2010	09/22/2010	9-9	24000
SB-833	E-SB-833-11	09/16/2010	09/29/2010	11-11	61
SB-833A	E-SB-833A-06	10/12/2010	10/20/2010	6-6	510
SB-833A	E-SB-833A-10	10/12/2010	10/20/2010	10-10	2000
SB-833B	E-SB-833B-04	10/12/2010	10/20/2010	4-4	0.11
SB-833B	E-SB-833B-06	10/12/2010	10/20/2010	6-6	0.52
SB-833B	E-SB-833B-08	10/12/2010	10/20/2010	8-8	0.15
SB-833B	E-SB-833B-10	10/12/2010	10/21/2010	10-10	0.75
SB-833C	E-SB-833C-04	10/12/2010	10/21/2010	4-4	0.05
SB-833C	E-SB-833C-06	10/12/2010	10/21/2010	6-6	0.024
SB-833C	E-SB-833C-08	10/12/2010	10/21/2010	8-8	0 U
SB-833C	E-SB-833C-10	10/12/2010	10/21/2010	10-10	0.027
SB-833D	E-SB-833D-04	10/12/2010	10/21/2010	4-4	0 U
SB-833D	E-SB-833D-06	10/12/2010	10/21/2010	6-6	0 U
SB-833D	E-SB-833D-08	10/12/2010	10/21/2010	8-8	0.048
SB-833D	E-SB-833D-10	10/12/2010	10/21/2010	10-10	0 U
SB-833E	E-SB-833E-06	10/12/2010	10/21/2010	6-6	180
SB-833E	E-SB-833E-10	10/12/2010	10/21/2010	10-10	27
SB-833F	E-SB-833F-04	10/12/2010	10/21/2010	4-4	0.25
SB-833F	E-SB-833F-06	10/12/2010	10/21/2010	6-6	2.3
SB-833F	E-SB-833F-08	10/12/2010	10/21/2010	8-8	0.1
SB-833F	E-SB-833F-10	10/12/2010	10/21/2010	10-10	1
SB-833G	E-SB-833G-06	10/12/2010	10/21/2010	6-6	0.083
SB-833G	E-SB-833G-08	10/12/2010	10/21/2010	8-8	0.077
SB-833G	E-SB-833G-10	10/12/2010	10/21/2010	10-10	0 U
SB-833H	E-SB-833H-06	10/12/2010	10/21/2010	6-6	0 U
SB-833H	E-SB-833H-08	10/12/2010	10/21/2010	8-8	0 U

Table 2-2

Summary of Total Aroclor Concentrations in Subsurface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
SB-833H	E-SB-833H-10	10/12/2010	10/21/2010	10-10	0 U
SB-833I	E-SB-833I-08	10/13/2010	10/21/2010	8-8	220
SB-833I	E-SB-833I-10	10/13/2010	10/21/2010	10-10	350
SB-833J	E-SB-833J-04	10/13/2010	10/21/2010	4-4	0.16
SB-833J	E-SB-833J-06	10/13/2010	10/21/2010	6-6	0.039
SB-833J	E-SB-833J-08	10/13/2010	10/21/2010	8-8	0.07
SB-833J	E-SB-833J-10	10/13/2010	10/22/2010	10-10	0.18
SB-833K	E-SB-833K-06	10/13/2010	10/22/2010	6-6	970
SB-833K	E-SB-833K-08	10/13/2010	10/22/2010	8-8	35
SB-833K	E-SB-833K-10	10/13/2010	10/22/2010	10-10	270
SB-833L	E-SB-833L-04	10/13/2010	10/22/2010	4-4	0.073
SB-833L	E-SB-833L-06	10/13/2010	10/22/2010	6-6	4.5
SB-833L	E-SB-833L-08	10/13/2010	10/22/2010	8-8	700
SB-833M	E-SB-833M-04	10/13/2010	10/22/2010	4-4	0.24
SB-833M	E-SB-833M-06	10/13/2010	10/22/2010	6-6	0.86
SB-833M	E-SB-833M-08	10/13/2010	10/22/2010	8-8	0.59
SB-833M	E-SB-833M-10	10/13/2010	10/22/2010	10-10	0.073
SB-833N	E-SB-833N-04	10/14/2010	10/25/2010	4-4	0.21
SB-833N	E-SB-833N-06	10/14/2010	10/25/2010	6-6	0.08
SB-833N	E-SB-833N-08	10/14/2010	10/25/2010	8-8	0.37
SB-833N	E-SB-833N-10	10/14/2010	10/25/2010	10-10	0.43
SB-834	E-SB-834-05	09/16/2010	09/28/2010	5-5	0.28
SB-834	E-SB-834-07	09/16/2010	09/28/2010	7-7	0.023
SB-834	E-SB-834-09	09/16/2010	09/28/2010	9-9	0.024
SB-834	E-SB-834-11	09/16/2010	09/28/2010	11-11	0.032
SB-834	E-SB-834-13	09/16/2010	10/01/2010	13-13	0.35
SB-834	E-SB-834-15	09/16/2010	09/30/2010	15-15	0.027
SB-835	E-SB-835-03	09/17/2010	09/30/2010	3-3	0 U
SB-835	E-SB-835-05	09/17/2010	09/30/2010	5-5	0.31
SB-835	E-SB-835-07	09/17/2010	09/30/2010	7-7	0.094
SB-835	E-SB-835-09	09/17/2010	09/30/2010	9-9	3.5
SB-835	E-SB-835-11	09/17/2010	09/30/2010	11-11	0 U
SB-835	E-SB-835-13	09/17/2010	09/30/2010	13-13	0.19
SB-835	E-SB-835-15	09/17/2010	09/30/2010	15-15	0 U
SB-836	E-SB-836-03	09/17/2010	10/01/2010	3-3	0 U
SB-836	E-SB-836-05	09/17/2010	09/30/2010	5-5	0.022
SB-836	E-SB-836-07	09/17/2010	09/30/2010	7-7	0 U
SB-836	E-SB-836-09	09/17/2010	09/30/2010	9-9	0 U
SB-836	E-SB-836-11	09/17/2010	09/30/2010	11-11	0 U
SB-836	E-SB-836-13	09/17/2010	09/30/2010	13-13	0.026
SB-836	E-SB-836-15	09/17/2010	09/30/2010	15-15	0 U
SB-837	E-SB-837-03	09/17/2010	09/30/2010	3-3	0 U

Table 2-2

Summary of Total Aroclor Concentrations in Subsurface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
SB-837	E-SB-837-05	09/17/2010	09/30/2010	5-5	0 U
SB-837	E-SB-837-07	09/17/2010	09/30/2010	7-7	0 U
SB-837	E-SB-837-09	09/17/2010	10/01/2010	9-9	0.059
SB-837	E-SB-837-11	09/17/2010	09/30/2010	11-11	0 U
SB-837	E-SB-837-13	09/17/2010	09/29/2010	13-13	0.053
SB-837	E-SB-837-13-D	09/17/2010	10/01/2010	13-13	0.31
SB-837	E-SB-837-15	09/17/2010	09/29/2010	15-15	0 U
SB-838	E-SB-838-11	09/13/2010	09/22/2010	11-11	0 U
SB-838	E-SB-838-13	09/13/2010	09/22/2010	13-13	0 U
SB-838	E-SB-838-15	09/13/2010	09/22/2010	15-15	0 U
SB-838	E-SB-838-3	09/13/2010	09/21/2010	3-3	0 U
SB-838	E-SB-838-5	09/13/2010	09/22/2010	5-5	0 U
SB-838	E-SB-838-7	09/13/2010	09/22/2010	7-7	0 U
SB-838	E-SB-838-9	09/13/2010	09/22/2010	9-9	0 U
SB-839	E-SB-839-03	09/14/2010	09/25/2010	3-3	0 U
SB-839	E-SB-839-05	09/14/2010	09/25/2010	5-5	0 U
SB-839	E-SB-839-07	09/14/2010	09/25/2010	7-7	0 U
SB-839	E-SB-839-09	09/14/2010	09/25/2010	9-9	0.027
SB-839	E-SB-839-11	09/14/2010	09/25/2010	11-11	0 U
SB-839	E-SB-839-13	09/14/2010	09/25/2010	13-13	0.051
SB-839	E-SB-839-15	09/14/2010	09/25/2010	15-15	0 U
SB-840	E-SB-840-03	09/14/2010	09/23/2010	3-3	0 U
SB-840	E-SB-840-05	09/14/2010	09/23/2010	5-5	0 U
SB-840	E-SB-840-05-D	09/14/2010	09/25/2010	5-5	0 U
SB-840	E-SB-840-07	09/14/2010	09/23/2010	7-7	0 U
SB-840	E-SB-840-09	09/14/2010	09/23/2010	9-9	0 U
SB-840	E-SB-840-11	09/14/2010	09/23/2010	11-11	0 U
SB-840	E-SB-840-13	09/14/2010	09/23/2010	13-13	0.24
SB-840	E-SB-840-15	09/14/2010	09/23/2010	15-15	0 U
SB-841	E-SB-841-03	09/14/2010	09/23/2010	3-3	0 U
SB-841	E-SB-841-05	09/14/2010	09/24/2010	5-5	0.035
SB-841	E-SB-841-07	09/14/2010	09/24/2010	7-7	0.068
SB-841	E-SB-841-09	09/14/2010	09/23/2010	9-9	0.14
SB-841	E-SB-841-11	09/14/2010	09/25/2010	11-11	0 U
SB-841	E-SB-841-13	09/14/2010	09/23/2010	13-13	0.67
SB-841	E-SB-841-15	09/14/2010	09/25/2010	15-15	0 U
SB-842	E-SB-842-11	09/13/2010	09/22/2010	11-11	0 U
SB-842	E-SB-842-11-D	09/13/2010	09/22/2010	11-11	0 U
SB-842	E-SB-842-13	09/13/2010	09/22/2010	13-13	0 U
SB-842	E-SB-842-15	09/13/2010	09/22/2010	15-15	0.062
SB-842	E-SB-842-3	09/13/2010	09/22/2010	3-3	0 U
SB-842	E-SB-842-5	09/13/2010	09/22/2010	5-5	0 U

Table 2-2

Summary of Total Aroclor Concentrations in Subsurface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
SB-842	E-SB-842-7	09/13/2010	09/22/2010	7-7	0 U
SB-842	E-SB-842-9	09/13/2010	09/22/2010	9-9	0 U
SB-843	E-SB-843-03	09/14/2010	09/23/2010	3-3	0 U
SB-843	E-SB-843-05	09/14/2010	09/23/2010	5-5	0 U
SB-843	E-SB-843-07	09/14/2010	09/23/2010	7-7	0 U
SB-843	E-SB-843-09	09/14/2010	09/23/2010	9-9	0 U
SB-843	E-SB-843-11	09/14/2010	09/23/2010	11-11	0 U
SB-843	E-SB-843-11-D	09/14/2010	09/25/2010	11-11	0 U
SB-843	E-SB-843-13	09/14/2010	09/23/2010	13-13	0 U
SB-843	E-SB-843-15	09/14/2010	09/23/2010	15-15	0 U
SB-844	E-SB-844-03	09/14/2010	09/23/2010	3-3	0 U
SB-844	E-SB-844-05	09/14/2010	09/23/2010	5-5	0.12
SB-844	E-SB-844-07	09/14/2010	09/23/2010	7-7	0 U
SB-844	E-SB-844-09	09/14/2010	09/23/2010	9-9	0.4
SB-844	E-SB-844-11	09/14/2010	09/23/2010	11-11	0 U
SB-844	E-SB-844-13	09/14/2010	09/23/2010	13-13	0.17
SB-844	E-SB-844-15	09/14/2010	09/23/2010	15-15	0 U
SB-845	E-SB-845-03	09/13/2010	09/22/2010	3-3	0.044
SB-845	E-SB-845-05	09/13/2010	09/22/2010	5-5	0 U
SB-845	E-SB-845-07	09/13/2010	09/25/2010	7-7	0 U
SB-845	E-SB-845-09	09/13/2010	09/21/2010	9-9	0.35
SB-845	E-SB-845-11	09/13/2010	09/21/2010	11-11	0 U
SB-845	E-SB-845-13	09/13/2010	09/21/2010	13-13	0.59
SB-845	E-SB-845-15	09/13/2010	09/21/2010	15-15	0 U
SB-846	E-SB-846-03	09/13/2010	09/23/2010	3-3	0 U
SB-846	E-SB-846-05	09/13/2010	09/23/2010	5-5	0 U
SB-846	E-SB-846-07	09/13/2010	09/23/2010	7-7	0 U
SB-846	E-SB-846-09	09/13/2010	09/23/2010	9-9	0 U
SB-846	E-SB-846-11	09/13/2010	09/23/2010	11-11	0 U
SB-846	E-SB-846-13	09/13/2010	09/23/2010	13-13	0 U
SB-846	E-SB-846-15	09/13/2010	09/23/2010	15-15	0 U
SB-847	E-SB-847-03	09/13/2010	09/21/2010	3-3	0.06
SB-847	E-SB-847-05	09/13/2010	09/21/2010	5-5	0 U
SB-847	E-SB-847-07	09/13/2010	09/21/2010	7-7	0 U
SB-847	E-SB-847-09	09/13/2010	09/21/2010	9-9	0 U
SB-847	E-SB-847-11	09/13/2010	09/21/2010	11-11	0 U
SB-847	E-SB-847-13	09/13/2010	09/21/2010	13-13	0 U
SB-847	E-SB-847-15	09/13/2010	09/21/2010	15-15	0 U
SB-847	E-SB-847-15-D	09/13/2010	09/23/2010	15-15	0 U
SB-848	E-SB-848-06	07/11/2011	07/12/2011	4-6	0.035
SB-848	E-SB-848-08	07/11/2011	07/13/2011	6-8	200
SB-848	E-SB-848-12	07/11/2011	07/12/2011	8-12	0.055

Table 2-2

Summary of Total Aroclor Concentrations in Subsurface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
SB-848	E-SB-848-16	07/11/2011	07/12/2011	12-16	0.059
SB-848	E-SB-848-20	07/11/2011	07/12/2011	16-20	0.038
SB-848	E-SB-848-24	07/11/2011	07/12/2011	20-24	0.011
SB-848	E-SB-848-28	07/11/2011	07/12/2011	24-28	0.0084
SB-848	E-SB-848-30	07/11/2011	07/12/2011	28-30	0 U
SB-849	E-SB-849-08	07/11/2011	07/12/2011	4-8	0 U
SB-849	E-SB-849-12	07/11/2011	07/12/2011	8-12	0 U
SB-849	E-SB-849-16	07/11/2011	07/12/2011	12-16	0 U
SB-849	E-SB-849-20	07/11/2011	07/13/2011	16-20	0 U
SB-849	E-SB-849-28	07/11/2011	07/13/2011	24-28	0 U
SB-850	E-SB-850-04	07/12/2011	07/13/2011	2-4	0 U
SB-850	E-SB-850-08	07/12/2011	07/13/2011	4-8	0 U
SB-850	E-SB-850-12	07/12/2011	07/13/2011	8-12	0 U
SB-850	E-SB-850-16	07/12/2011	07/13/2011	12-16	0 U
SB-850	E-SB-850-20	07/12/2011	07/13/2011	16-20	0 U
SB-850	E-SB-850-24	07/12/2011	07/13/2011	20-24	0 U
SB-850	E-SB-850-28	07/12/2011	07/13/2011	24-28	0 U
SB-850	E-SB-850-30	07/12/2011	07/14/2011	28-30	0 U
SB-851	E-SB-851-08	07/13/2011	07/15/2011	7-8	0 U
SB-851	E-SB-851-12	07/13/2011	07/15/2011	8-12	0 U
SB-851	E-SB-851-16	07/13/2011	07/15/2011	12-16	0 U
SB-851	E-SB-851-20	07/13/2011	07/15/2011	16-20	0 U
SB-851	E-SB-851-28	07/13/2011	07/15/2011	24-28	0 U
SB-852	E-SB-852-12	07/13/2011	07/15/2011	8-12	120
SB-852	E-SB-852-16	07/13/2011	07/15/2011	12-16	17
SB-852	E-SB-852-20	07/13/2011	07/15/2011	16-19	15
SB-852	E-SB-852-24	07/13/2011	07/15/2011	20-24	2.9
SB-852	E-SB-852-28	07/13/2011	07/15/2011	24-28	1.2
SB-852	E-SB-852-30	07/13/2011	07/15/2011	28-30	9.3
SB-853	E-SB-853-12-16	07/14/2011	07/18/2011	12-16	780
SB-853	E-SB-853-16-20	07/14/2011	07/17/2011	16-20	12
SB-853	E-SB-853-20-24	07/14/2011	07/17/2011	20-24	27
SB-853	E-SB-853-24-28	07/14/2011	07/17/2011	24-28	4.3
SB-853	E-SB-853-28-30	07/14/2011	07/16/2011	28-28.5	1.5
SB-853	E-SB-853-4-8	07/14/2011	07/17/2011	5-8	4.3
SB-853	E-SB-853-8-12	07/14/2011	07/18/2011	8-12	19000
SB-854	E-SB-854-12-16	07/14/2011	07/16/2011	12-16	0.48
SB-854	E-SB-854-16-20	07/14/2011	07/16/2011	16-20	0.3
SB-854	E-SB-854-24-28	07/14/2011	07/16/2011	24-28	0.085
SB-854	E-SB-854-4-8	07/14/2011	07/18/2011	5-8	470
SB-854	E-SB-854-8-12	07/14/2011	07/18/2011	8-12	2
SB-855	E-SB-855-12-16	07/14/2011	07/18/2011	12-16	16

Table 2-2

Summary of Total Aroclor Concentrations in Subsurface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
SB-855	E-SB-855-16-20	07/14/2011	07/16/2011	16-20	0.069
SB-855	E-SB-855-24-28	07/14/2011	07/16/2011	24-28	0.087
SB-855	E-SB-855-4-8	07/14/2011	07/16/2011	5-8	0.12
SB-855	E-SB-855-8-12	07/14/2011	07/18/2011	8-12	680
SB-856	E-SB-856-08	07/13/2011	07/14/2011	5-8	0 U
SB-856	E-SB-856-12	07/13/2011	07/14/2011	8-12	0 U
SB-856	E-SB-856-16	07/13/2011	07/14/2011	12-16	0 U
SB-856	E-SB-856-20	07/13/2011	07/14/2011	16-20	0 U
SB-856	E-SB-856-28	07/13/2011	07/14/2011	24-28	0 U
SB-857	E-SB-857-08	07/13/2011	07/15/2011	7.5-8	0.021
SB-857	E-SB-857-12	07/13/2011	07/15/2011	11.5-12	0 U
SB-857	E-SB-857-16	07/13/2011	07/15/2011	12-16	0 U
SB-857	E-SB-857-20	07/13/2011	07/15/2011	16-20	0 U
SB-857	E-SB-857-28	07/13/2011	07/15/2011	24-28	0 U
SB-858	E-SB-858-08	07/12/2011	07/14/2011	5-8	0 U
SB-858	E-SB-858-12	07/12/2011	07/14/2011	10-12	0 U
SB-858	E-SB-858-16	07/12/2011	07/14/2011	15-16	0 U
SB-858	E-SB-858-20	07/12/2011	07/14/2011	16-18	0.028
SB-858	E-SB-858-28	07/12/2011	07/14/2011	24-28	0.0087
SB-859	E-SB-859-08	07/12/2011	07/14/2011	5-8	0 U
SB-859	E-SB-859-12	07/12/2011	07/14/2011	10-12	0 U
SB-859	E-SB-859-16	07/12/2011	07/14/2011	12-16	0.021
SB-859	E-SB-859-20	07/12/2011	07/13/2011	16-20	0.038
SB-859	E-SB-859-28	07/12/2011	07/13/2011	24-28	0 U
E-SB-886	E-SB-886-2-4	05/30/2012	06/08/2012	2-4	0.044
E-SB-886	E-SB-886-6.5-10	05/30/2012	06/08/2012	6.5-10	0.07
E-SB-887	E-SB-887-2-6	05/30/2012	06/08/2012	2-6	0 U
E-SB-887	E-SB-887-6-10	05/30/2012	06/08/2012	6-10	0 U
E-SB-888	E-SB-888-2-4	05/30/2012	06/08/2012	2-4	0.066
E-SB-888	E-SB-888-6-10	05/30/2012	06/08/2012	6-10	0.081
E-SB-889	E-SB-889-2-6	05/30/2012	06/08/2012	2-6	0.048
E-SB-889	E-SB-889-6-10	05/30/2012	06/08/2012	6-10	0.043
E-SB-890	E-SB-890-2-4	05/30/2012	06/08/2012	2-4	3
E-SB-890	E-SB-890-4-10	05/30/2012	06/14/2012	4-10	0.23
E-SB-891	E-SB-891-2-6	05/30/2012	06/14/2012	2-6	0 U
E-SB-891	E-SB-891-6-10	05/30/2012	06/08/2012	6-10	0 U
E-SB-892	E-SB-892-2-6	05/29/2012	06/07/2012	2-6	0 U
E-SB-892	E-SB-892-6-10	05/29/2012	06/07/2012	6-10	0.047
E-SB-893	E-SB-893-2-6	05/30/2012	06/08/2012	2-6	0.24
E-SB-893	E-SB-893-6-10	05/30/2012	06/14/2012	6-10	0 U
E-SB-894	E-SB-894-2-6	05/30/2012	06/14/2012	2-6	0 U
E-SB-894	E-SB-894-6-10	05/30/2012	06/14/2012	6-10	0 U

Table 2-2

Summary of Total Aroclor Concentrations in Subsurface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
E-SB-895	E-SB-895-2-6	05/30/2012	06/14/2012	2-6	0.059
E-SB-895	E-SB-895-6-10	05/30/2012	06/14/2012	6-10	0.098
E-SB-896	E-SB-896-2-6	05/29/2012	06/07/2012	2-6	0.13
E-SB-896	E-SB-896-6-10	05/29/2012	06/07/2012	6-10	0 U
E-SB-897	E-SB-897-2-3.5	05/29/2012	06/07/2012	2-3.5	0.14
E-SB-897	E-SB-897-6.5-10	05/29/2012	06/07/2012	6.5-10	0 U
E-SB-898	E-SB-898-2-8	05/30/2012	06/08/2012	2-8	0.12
E-SB-898	E-SB-898-8-11	05/30/2012	06/12/2012	8-11	0.12
E-SB-899	E-SB-899-2-3.5	05/31/2012	06/13/2012	2-3.5	0 U
E-SB-899	E-SB-899-6-10	05/29/2012	06/07/2012	6-10	0 U
E-SB-900	E-SB-900-2-6	05/31/2012	06/08/2012	2-6	0.029
E-SB-900	E-SB-900-6-10	05/31/2012	06/13/2012	6-10	0 U
E-SB-900	E-SB-900-6-10-D	05/31/2012	06/13/2012	6-10	0 U
E-SB-901	E-SB-901-2-6	05/31/2012	06/12/2012	2-6	0 U
E-SB-901	E-SB-901-6-10	05/31/2012	06/12/2012	6-10	0 U
E-SB-902	E-SB-902-2-6	05/30/2012	06/12/2012	2-6	0 U
E-SB-902	E-SB-902-6-10	05/30/2012	06/12/2012	6-10	0 U
E-SB-903	E-SB-903-2-6	05/31/2012	06/12/2012	2-6	0 U
E-SB-903	E-SB-903-6-10	05/31/2012	06/12/2012	6-10	0 U
E-SB-904	E-SB-904-2-6	05/31/2012	06/13/2012	2-6	0.14
E-SB-904	E-SB-904-6-10	05/31/2012	06/13/2012	6-10	0 U
E-SB-905	E-SB-905-2-6	05/31/2012	06/13/2012	2-6	0 U
E-SB-905	E-SB-905-2-6-D	05/31/2012	06/13/2012	2-6	0 U
E-SB-905	E-SB-905-6-10	05/31/2012	06/13/2012	6-10	0 U
E-SB-906	E-SB-906-2-6	05/31/2012	06/13/2012	2-6	0 U
E-SB-906	E-SB-906-2-6-D	05/31/2012	06/13/2012	2-6	0 U
E-SB-906	E-SB-906-6-10	05/31/2012	06/13/2012	6-10	0 U
E-SB-907	E-SB-907-2-6	05/31/2012	06/12/2012	2-6	0 U
E-SB-907	E-SB-907-6-10	05/31/2012	06/12/2012	6-10	0 U
E-SB-908	E-SB-908-2-6	05/31/2012	06/08/2012	2-6	0 U
E-SB-908	E-SB-908-6-10	05/31/2012	06/12/2012	6-10	0 U
E-SB-909	E-SB-909-2-6	05/31/2012	06/08/2012	2-6	0 U
E-SB-909	E-SB-909-6-10	05/31/2012	06/13/2012	6-10	0 U
E-SB-910	E-SB-910-2-6	05/31/2012	06/12/2012	2-6	0 U
E-SB-910	E-SB-910-6-10	05/31/2012	06/12/2012	6-10	0 U
E-SB-955	E-SB-955-2-3	06/29/2012	07/13/2012	2-3	0 U
E-SB-955	E-SB-955-3-4	06/29/2012	07/13/2012	3-4	0 U
E-SB-956	E-SB-956-2-3	06/28/2012	07/12/2012	2-3	0.029
E-SB-956	E-SB-956-3-4	06/28/2012	07/12/2012	3-4	0 U
E-SB-957	E-SB-957-2-3	06/28/2012	07/12/2012	2-3	0.32
E-SB-957	E-SB-957-3-4	06/28/2012	07/12/2012	3-4	0.023
E-SB-958	E-SB-958-2-3	06/28/2012	07/12/2012	2-3	3

Table 2-2

Summary of Total Aroclor Concentrations in Subsurface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
E-SB-958	E-SB-958-3-4	06/28/2012	07/12/2012	3-4	0.29
E-SB-960	E-SB-960-2-3.5	06/28/2012	07/03/2012	2-3.5	0 U
E-SB-961	E-SB-961-2-3	06/28/2012	07/03/2012	2-3	0 U
E-SB-962	E-SB-962-2-3	06/28/2012	07/03/2012	2-3	0 U
E-SB-969	E-SB-969-2-3	06/27/2012	07/01/2012	2-3	0 U
E-SB-970	E-SB-970-2-3	06/27/2012	07/01/2012	2-3	0 U
E-SB-971	E-SB-971-2-3	06/27/2012	07/01/2012	2-3	0 U
E-SB-972	E-SB-972-2-3	06/29/2012	07/13/2012	2-3	0 U
E-SB-972	E-SB-972-3-4	06/29/2012	07/13/2012	3-4	0 U
E-SB-973	E-SB-973-2-3	06/29/2012	07/13/2012	2-3	0 U
E-SB-973	E-SB-973-3-4	06/29/2012	07/13/2012	3-4	0 U
E-SB-974	E-SB-974-2-3	06/29/2012	07/13/2012	2-3	0 U
E-SB-974	E-SB-974-3-4	06/29/2012	07/13/2012	3-4	0 U
E-SB-975	E-SB-975-2-3	06/29/2012	07/13/2012	2-3	0 U
E-SB-975	E-SB-975-3-4	06/29/2012	07/13/2012	3-4	0 U
E-SB-976	E-SB-976-2-3	06/29/2012	07/13/2012	2-3	0 U
E-SB-976	E-SB-976-3-4	06/29/2012	07/13/2012	3-4	0 U
E-SB-977	E-SB-977-2-3	06/29/2012	07/13/2012	2-3	0.02
E-SB-977	E-SB-977-3-4	06/29/2012	07/13/2012	3-4	0 U
E-SB-978	E-SB-978-2-2.5	06/29/2012	07/13/2012	2-2.5	0.86
E-SB-979	E-SB-979-2-3	06/28/2012	07/12/2012	2-3	0 U
E-SB-979	E-SB-979-3-4	06/28/2012	07/12/2012	3-4	0 U
E-SB-980	E-SB-980-2-3	06/28/2012	07/12/2012	2-3	0.087
E-SB-980	E-SB-980-3-4	06/28/2012	07/12/2012	3-4	0.029
E-SB-981	E-SB-981-2-3	06/28/2012	07/12/2012	2-3	6.5
E-SB-981	E-SB-981-3-3.5	06/28/2012	07/12/2012	3-3.5	6
E-SB-982	E-SB-982-3-4	06/28/2012	07/12/2012	3-4	0 U
E-SB-983	E-SB-983-10-12	07/19/2012	08/01/2012	10-12	0 U
E-SB-983	E-SB-983-12-14	07/19/2012	08/01/2012	12-14	0 U
E-SB-983	E-SB-983-14-16	07/19/2012	08/01/2012	14-16	0 U
E-SB-983	E-SB-983-16-18	07/19/2012	08/01/2012	16-18	0 U
E-SB-983	E-SB-983-18-20	07/19/2012	07/31/2012	18-20	0 U
E-SB-983	E-SB-983-2-4	07/19/2012	08/01/2012	2-4	0 U
E-SB-983	E-SB-983-22-24	07/19/2012	07/31/2012	22-24	0 U
E-SB-983	E-SB-983-26-28	07/19/2012	07/31/2012	26-28	0 U
E-SB-983	E-SB-983-32-34	07/19/2012	07/31/2012	32-34	0 U
E-SB-983	E-SB-983-36-38	07/19/2012	07/31/2012	36-38	0 U
E-SB-983	E-SB-983-4-6	07/19/2012	08/01/2012	4-6	0 U
E-SB-983	E-SB-983-6-8	07/19/2012	08/01/2012	6-8	0 U
E-SB-983	E-SB-983-8-10	07/19/2012	08/01/2012	8-10	0 U
E-SB-984	E-SB-984-10-12	07/24/2012	08/07/2012	10-12	480
E-SB-984	E-SB-984-12-14	07/24/2012	08/07/2012	12-14	120

Table 2-2

Summary of Total Aroclor Concentrations in Subsurface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
E-SB-984	E-SB-984-14-16	07/24/2012	08/07/2012	14-16	10
E-SB-984	E-SB-984-16-18	07/24/2012	08/07/2012	16-18	0.25
E-SB-984	E-SB-984-18-20	07/24/2012	08/01/2012	18-20	0.21
E-SB-984	E-SB-984-2-3	04/10/2013	04/24/2013	2-3	0.29
E-SB-984	E-SB-984-2-4	07/24/2012	08/04/2012	2-4	0.86
E-SB-984	E-SB-984-22-24	07/24/2012	08/01/2012	22-24	0 U
E-SB-984	E-SB-984-26-28	07/24/2012	08/01/2012	26-28	0.032
E-SB-984	E-SB-984-32-34	07/24/2012	08/01/2012	32-34	0 U
E-SB-984	E-SB-984-36-38	07/24/2012	08/01/2012	36-38	0 U
E-SB-984	E-SB-984-4-6	07/24/2012	08/06/2012	4-6	1700
E-SB-984	E-SB-984-6-8	07/24/2012	08/04/2012	6-8	0.34
E-SB-984	E-SB-984-8-10	07/24/2012	08/04/2012	8-10	0.4
E-SB-985	E-SB-985-2-3	04/10/2013	04/24/2013	2-3	0.66
E-SB-986	E-SB-986-2-3	04/10/2013	04/24/2013	2-3	0 U
E-SB-987	E-SB-987-2-3	04/10/2013	04/24/2013	2-3	0 U
E-SB-988	E-SB-988-2-3	04/11/2013	04/26/2013	2-3	0.034
E-SB-989	E-SB-989-2-3	04/11/2013	04/26/2013	2-3	0.023
E-SB-990	E-SB-990-2-3	04/11/2013	04/26/2013	2-3	0.039
E-SB-991	E-SB-991-2-3	04/11/2013	04/26/2013	2-3	0.042
E-SB-992	E-SB-992-2-3	04/11/2013	05/05/2013	2-3	0.034
E-SB-993	E-SB-993-2-3	04/11/2013	05/05/2013	2-3	0.14
E-SB-994	E-SB-994-2-3	04/11/2013	05/05/2013	2-3	0.075
E-SB-995	E-SB-995-2-3	04/11/2013	05/05/2013	2-3	5.5
E-SB-996	E-SB-996-2-3	04/11/2013	05/06/2013	2-3	0.55
E-SB-997	E-SB-997-2-3	04/11/2013	05/06/2013	2-3	0.031
E-SB-998	E-SB-998-2-3	04/12/2013	05/06/2013	2-3	0.031
E-SB-999	E-SB-999-2-3	04/12/2013	04/29/2013	2-3	0 U
EW1	EW1-051616	05/16/2016	05/20/2016	5-5	0.82
EW2	EW2-051616	05/16/2016	05/20/2016	5-5	7.6
BLI-SB-33	I-SB-33-07	09/24/2010	10/07/2010	7-7	0 U
BLI-SB-33	I-SB-33-13	09/24/2010	10/07/2010	13-13	0 U
BLI-SB-34	I-SB-34-03	09/24/2010	10/07/2010	3-3	0 U
BLI-SB-34	I-SB-34-13	09/24/2010	10/07/2010	13-13	0 U
PIPE	PIPE-051616	05/16/2016	05/20/2016	3-3	0 U
PUSTE	PUSTE-030916	03/09/2016	03/16/2016	2.5-2.5	0 U
PUSTF	PUSTF-030916	03/09/2016	03/16/2016	4.4-4.4	0 U
PUSTG	PUSTG-030916	03/09/2016	03/16/2016	4.3-4.3	0.46
PUSTGBR	PUSTGBR-03091	03/09/2016	03/16/2016	4-4	0.61
E-SB-963	S-SB-963-2-2.5	06/27/2012	07/06/2012	2-2.5	0 U
SB-001	SB-1-05	11/20/2003	01/01/9999	5-5	0 U
SB-001	SB-1-10	11/20/2003	01/01/9999	10-10	0 U
SB-002	SB-2-05	11/20/2003	01/01/9999	5-5	0 U

Table 2-2

Summary of Total Aroclor Concentrations in Subsurface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
SB-002	SB-2-10	11/20/2003	01/01/9999	10-10	0 U
SB-003	SB-3-05	11/20/2003	01/01/9999	5-5	0 U
SB-003	SB-3-10	11/20/2003	01/01/9999	10-10	0 U
SB-035	SB-35-04	09/22/2004	10/02/2004	4-4	0 U
SB-036	SB-36-05	09/17/2004	09/23/2004	5-5	0 U
SB-004	SB-4-05	11/20/2003	01/01/9999	5-5	0 U
SB-004	SB-4-10	11/20/2003	01/01/9999	10-10	0 U
SB-005	SB-5-05	11/20/2003	01/01/9999	5-5	0 U
SB-005	SB-5-10	11/20/2003	01/01/9999	10-10	0 U
SB-500	SB-500-0406	11/27/2007	12/08/2007	4-6	0 U
SB-500	SB-500-0810	11/27/2007	12/08/2007	8-10	0 U
SB-501	SB-501-0406	11/27/2007	12/08/2007	4-6	5.8
SB-501	SB-501-0810	11/27/2007	12/08/2007	8-10	24
SB-502	SB-502-0406	11/27/2007	12/06/2007	4-6	49
SB-502	SB-502-0810	11/27/2007	12/06/2007	8-10	65
SB-503	SB-503-0406	11/27/2007	12/06/2007	4-6	0.38
SB-503	SB-503-1012	11/27/2007	12/08/2007	10-12	0 U
SB-504	SB-504-0406	11/27/2007	12/08/2007	4-6	11
SB-504	SB-504-0810	11/27/2007	12/08/2007	8-10	2.3
SB-505	SB-505-0406	11/27/2007	12/08/2007	4-6	0.015
SB-505	SB-505-0810	11/27/2007	12/08/2007	8-10	0.65
SB-506	SB-506-0406	11/28/2007	12/08/2007	4-6	0 U
SB-506	SB-506-0810	11/28/2007	12/08/2007	8-10	0.02
SB-507	SB-507-0406	11/28/2007	12/08/2007	4-6	0 U
SB-507	SB-507-0810	11/28/2007	12/08/2007	8-10	0 U
SB-508	SB-508-0406	11/28/2007	12/07/2007	4-6	0 U
SB-508	SB-508-0406-D	11/28/2007	12/07/2007	4-6	0 U
SB-508	SB-508-0810	11/28/2007	12/07/2007	8-10	0 U
SB-509	SB-509-0406	11/29/2007	12/07/2007	4-6	0 U
SB-509	SB-509-0810	11/29/2007	12/08/2007	8-10	0 U
SB-510	SB-510-0406	11/28/2007	12/07/2007	4-6	0 U
SB-510	SB-510-0810	11/28/2007	12/07/2007	8-10	0.016
SB-510	SB-510-0810-D	11/28/2007	12/07/2007	8-10	0 U
SB-511	SB-511-0406	11/29/2007	12/07/2007	4-6	0.016
SB-511	SB-511-0810	11/29/2007	12/07/2007	8-10	0 U
SB-512	SB-512-0406	11/29/2007	12/07/2007	4-6	0 U
SB-512	SB-512-0810	11/29/2007	12/07/2007	8-10	0.018
SB-512	SB-512-0810-D	11/29/2007	12/11/2007	8-10	0.053
SB-513	SB-513-0406	11/29/2007	12/07/2007	4-6	0 U
SB-513	SB-513-0810	11/29/2007	12/07/2007	8-10	0 U
SB-514	SB-514-0406	11/29/2007	12/08/2007	4-6	0 U
SB-514	SB-514-0810	11/29/2007	12/08/2007	8-10	0 U

Table 2-2

Summary of Total Aroclor Concentrations in Subsurface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
SB-514	SB-514-0810-D	11/29/2007	12/11/2007	8-10	0 U
SB-515	SB-515-0406	11/29/2007	12/11/2007	4-6	0 U
SB-515	SB-515-0810	11/29/2007	12/11/2007	8-10	0.019
SB-517	SB-517-0406	11/30/2007	12/11/2007	4-6	0 U
SB-517	SB-517-0810	11/30/2007	12/11/2007	8-10	0.19
SB-518	SB-518-0406	11/30/2007	12/11/2007	4-6	0 U
SB-518	SB-518-0810	11/30/2007	12/11/2007	8-10	0 U
SB-519	SB-519-0406	11/30/2007	12/11/2007	4-6	0 U
SB-519	SB-519-0810	11/30/2007	12/11/2007	8-10	0 U
SB-520	SB-520-0406	11/30/2007	12/11/2007	4-6	0 U
SB-520	SB-520-0810	11/30/2007	12/11/2007	8-10	0 U
SB-541A	SB-541A-4	11/11/2008	11/19/2008	4-4	0 U
SB-542	SB-542-3	10/23/2008	10/28/2008	3-3	0 U
SB-542	SB-542-4	10/23/2008	10/30/2008	4-4	0 U
SB-543A	SB-543A-3	11/11/2008	11/19/2008	3-3	0 U
SB-543A	SB-543A-4	11/11/2008	11/19/2008	4-4	0 U
SB-545	SB-545-4	10/23/2008	10/27/2008	4-4	0 U
SB-548	SB-548-3	10/23/2008	10/31/2008	3-3	0 U
SB-548	SB-548-4	10/23/2008	10/30/2008	4-4	0 U
SB-550A	SB-550A-3	11/11/2008	11/19/2008	3-3	0 U
SB-550A	SB-550A-4	11/11/2008	11/19/2008	4-4	0 U
SB-555	SB-555-4	10/21/2008	10/27/2008	4-4	17.6
SB-555	SB-555-6	10/21/2008	10/25/2008	6-6	0 U
SB-555	SB-555-8	10/21/2008	10/25/2008	8-8	0.25
SB-555A	SB-555A-10	11/11/2008	11/19/2008	10-10	0 U
SB-555A	SB-555A-12	11/11/2008	11/20/2008	12-12	0.71
SB-555A	SB-555A-14	11/11/2008	11/19/2008	14-14	0.038
SB-555A	SB-555A-16	11/11/2008	11/19/2008	16-16	0 U
SB-557	SB-557-4	10/21/2008	10/24/2008	4-4	0.027
SB-558	SB-558-4	10/21/2008	10/24/2008	4-4	0.14
SB-559	SB-559-4	10/22/2008	10/25/2008	4-4	0 U
SB-559	SB-559-6	10/22/2008	10/25/2008	6-6	0 U
SB-559	SB-559-8	10/22/2008	10/25/2008	8-8	0 U
SB-560	SB-560-4	10/22/2008	10/25/2008	4-4	0 U
SB-561	SB-561-6	10/21/2008	10/30/2008	6-6	0 U
SB-561	SB-561-8	10/21/2008	10/30/2008	8-8	0.18
SB-561A	SB-561A-6	11/11/2008	11/18/2008	6-6	0 U
SB-561A	SB-561A-8	11/11/2008	11/18/2008	8-8	0 U
SB-563	SB-563-4	10/21/2008	10/24/2008	4-4	0 U
SB-564	SB-564-4	10/22/2008	10/25/2008	4-4	0 U
SB-565	SB-565-4	10/22/2008	10/25/2008	4-4	0 U
SB-566	SB-566-4	10/22/2008	10/27/2008	4-4	0.7

Table 2-2

Summary of Total Aroclor Concentrations in Subsurface Soil Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
SB-566	SB-566-6	10/22/2008	10/25/2008	6-6	0 U
SB-566	SB-566-8	10/22/2008	10/25/2008	8-8	0 U
SB-567	SB-567-4	10/23/2008	10/27/2008	4-4	0 U
SB-568	SB-568-4	10/21/2008	10/25/2008	4-4	0.089
SB-568	SB-568-4-D	10/21/2008	10/24/2008	4-4	0.043
SB-568A	SB-568A-10	11/11/2008	11/19/2008	10-10	0 U
SB-568A	SB-568A-6	11/11/2008	11/19/2008	6-6	0 U
SB-568A	SB-568A-8	11/11/2008	11/19/2008	8-8	0 U
SB-569	SB-569-4	10/22/2008	10/27/2008	4-4	4
SB-569	SB-569-6	10/22/2008	10/30/2008	6-6	0.033
SB-569	SB-569-8	10/22/2008	10/30/2008	8-8	0.3
SB-570	SB-570-4	10/22/2008	10/28/2008	4-4	0.39
SB-570A	SB-570A-10	11/11/2008	11/19/2008	10-10	0.034
SB-570A	SB-570A-12	11/11/2008	11/19/2008	12-12	0 U
SB-570A	SB-570A-14	11/11/2008	11/19/2008	14-14	0 U
SB-570A	SB-570A-16	11/11/2008	11/19/2008	16-16	0 U
SB-570A	SB-570A-6	11/11/2008	11/19/2008	6-6	0 U
SB-570A	SB-570A-8	11/11/2008	11/19/2008	8-8	0 U
SB-571	SB-571-4	10/23/2008	10/31/2008	4-4	0 U
SB-006	SB-6-05	11/20/2003	01/01/9999	5-5	0 U
SB-006	SB-6-10	11/20/2003	01/01/9999	10-10	0 U
SUSP2	SUSP2-030816	03/08/2016	03/16/2016	2.5-2.5	0.07
SUSP2B	SUSP2B-030816	03/08/2016	03/16/2016	5.5-5.5	0 U
E-SW1	SW1-051616	05/16/2016	05/20/2016	5-5	2.1

Table 2-3

Summary of Total Aroclor Concentrations in Concrete Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
E-SB-1268	E-SB-1268-CS	07/21/2014	07/30/2014	0.33 0.5	290
E-SB-1269	E-SB-1269-CS	07/21/2014	07/30/2014	0 0.5	0.37
E-SB-1270	E-SB-1270-CS	07/21/2014	07/30/2014	0 0.5	8.8
E-SB-1271	E-SB-1271-CS	07/21/2014	07/30/2014	0 0.5	1.7
E-SB-1272	E-SB-1272-CS	07/21/2014	07/30/2014	0 0.5	2.6
E-SB-1273	E-SB-1273-CS	07/21/2014	07/30/2014	0 0.5	980
E-SB-1274	E-SB-1274-CS	07/21/2014	07/30/2014	0 0.5	660
E-SB-1275	E-SB-1275-CS	07/21/2014	07/30/2014	0 0.5	0.48
E-SB-1276	E-SB-1276-CS	07/21/2014	07/30/2014	0 0.5	0.43
E-SB-1400	E-SB-1400-CS	02/26/2016	03/03/2016	NA	0.18
E-SB-1401	E-SB-1401-CS	02/26/2016	03/04/2016	NA	73
E-SB-1402	E-SB-1402-CS	02/26/2016	03/03/2016	NA	0.54
E-SB-1403	E-SB-1403-CS	02/26/2016	03/04/2016	NA	1.6
E-SB-1404	E-SB-1404-CS	02/26/2016	03/03/2016	NA	2.5
E-SB-1405	E-SB-1405-CS	02/26/2016	03/04/2016	NA	2300
E-SB-1406	E-SB-1406-CS	02/26/2016	03/04/2016	NA	430
E-SB-1407	E-SB-1407-CS	02/26/2016	03/04/2016	NA	1.4
E-SB-1408	E-SB-1408-CS	02/26/2016	03/03/2016	NA	0.59
E-SB-1409	E-SB-1409-CS	02/26/2016	03/04/2016	NA	0.093
E-SB-1409	E-SB-1409-CS-D	02/26/2016	03/03/2016	NA	0.51
E-SB-1410	E-SB-1410-CS	02/26/2016	03/04/2016	NA	4.8
E-SB-1411	E-SB-1411-CS	02/26/2016	03/04/2016	NA	2.9
E-SB-1439	E-SB-1439-CS	03/30/2016	04/07/2016	0 1	0.18
E-SB-1440	E-SB-1440-CS	03/30/2016	04/06/2016	0 1	0.94
E-SB-1441	E-SB-1441-CS	03/30/2016	04/07/2016	0 1	0 U
E-SB-1447	E-SB-1447-CS	03/31/2016	04/07/2016	0 1	37
E-SB-1494	E-SB-1494-CS	03/31/2016	04/07/2016	0 1	890
E-SB-1495	E-SB-1495-CS	03/31/2016	04/07/2016	0 1	420
E-SB-1495	E-SB-1495-CS-D	03/31/2016	04/06/2016	0 1	3800
E-SB-1501	E-SB-1501-CS	03/04/2016	03/11/2016	0 1	0.5
E-SB-1502	E-SB-1502-CS	03/07/2016	03/15/2016	0 1	0.69
E-SB-1503	E-SB-1503-CS	03/07/2016	03/16/2016	0 1	0.36
E-SB-1509	E-SB-1509-CS	03/04/2016	03/10/2016	0 1	0.3
E-SB-1510	E-SB-1510-CS	03/07/2016	03/16/2016	0 1	0.051
E-SB-1510	E-SB-1510-CS-D	03/07/2016	03/15/2016	0 1	0.057
E-SB-1511	E-SB-1511-CS	03/04/2016	03/10/2016	0 1	0 U
E-SB-1613	E-SB-1613-CS	01/05/2017	01/12/2017	NA	34
E-SB-1616	E-SB-1616-CS	01/06/2017	01/12/2017	NA	1
SB-822	E-SB-822-CS	09/15/2010	09/28/2010	0 1	0 U
SB-823	E-SB-823-CS	09/15/2010	09/28/2010	0 1	0.025

Table 2-3

Summary of Total Aroclor Concentrations in Concrete Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
SB-824	E-SB-824-CS	09/15/2010	09/24/2010	0 1	0 U
SB-825	E-SB-825-CS	09/13/2010	09/21/2010	0 1	0 U
SB-826	E-SB-826-CS	09/16/2010	09/29/2010	0 1	0 U
SB-827	E-SB-827-CS	09/16/2010	09/29/2010	0 1	0 U
SB-828	E-SB-828-CS	09/16/2010	10/01/2010	0 1	0.043
SB-829	E-SB-829-CS	09/17/2010	09/30/2010	0 1	0 U
SB-830	E-SB-830-CS	09/14/2010	09/25/2010	0 1	0 U
SB-833	E-SB-833-CS	09/16/2010	09/28/2010	0 1	0 U
SB-833A	E-SB-833A-CS	10/12/2010	10/21/2010	0 1	1.4
SB-833B	E-SB-833B-CS	10/12/2010	10/21/2010	0 1	0.086
SB-833C	E-SB-833C-CS	10/12/2010	10/21/2010	0 1	0.03
SB-833D	E-SB-833D-CS	10/12/2010	10/25/2010	0 1	0.11
SB-833E	E-SB-833E-CS	10/12/2010	10/21/2010	0 1	1.1
SB-833F	E-SB-833F-CS	10/12/2010	10/21/2010	0 1	1600
SB-833G	E-SB-833G-CS	10/12/2010	10/21/2010	0 1	0.26
SB-833H	E-SB-833H-CS	10/12/2010	10/21/2010	0 1	0.12
SB-833I	E-SB-833I-CS	10/13/2010	10/21/2010	0 1	0.29
SB-833J	E-SB-833J-CS	10/13/2010	10/21/2010	0 1	0 U
SB-833K	E-SB-833K-CS	10/13/2010	10/22/2010	0 1	3.1
SB-833L	E-SB-833L-CS	10/13/2010	10/27/2010	0 1	0.29
SB-833M	E-SB-833M-CS	10/13/2010	10/22/2010	0 1	0.02
SB-833N	E-SB-833N-CS	10/14/2010	10/25/2010	0 1	0.053
SB-834	E-SB-834-CS	09/16/2010	09/29/2010	0 1	0.022
SB-836	E-SB-836-CS	09/17/2010	10/01/2010	0 1	0.047
E-SB-872	E-SB-872-CS-0.0-0.1	08/05/2011	08/09/2011	0 0.1	0 U
E-SB-873	E-SB-873-CS-0.0-0.1	08/05/2011	08/09/2011	0 0.1	0 U
E-SB-874	E-SB-874-CS-0.0-0.1	08/05/2011	08/09/2011	0 0.1	0.58
E-SB-921	E-SB-921-CS-0-0.25	06/26/2012	06/30/2012	0 0.25	0 U
E-SB-922	E-SB-922-CS-0-0.33	06/26/2012	06/30/2012	0 0.33	0 U
E-SB-923	E-SB-923-CS-0-0.33	06/26/2012	06/30/2012	0 0.33	0.16
E-SB-924	E-SB-924-CS-0-0.25	06/25/2012	06/30/2012	0 0.25	0.041
E-SB-925	E-SB-925-CS-0-0.25	06/25/2012	06/30/2012	0 0.25	0 U
E-SB-926	E-SB-926-CS-0-0.42	06/25/2012	06/30/2012	0 0.42	0.028
E-SB-927	E-SB-927-CS-0-0.25	06/26/2012	06/30/2012	0 0.25	0 U
E-SB-928	E-SB-928-CS-0-0.33	06/26/2012	06/30/2012	0 0.33	0 U
E-SB-929	E-SB-929-CS-0-0.33	06/26/2012	06/30/2012	0 0.33	0 U
E-SB-930	E-SB-930-CS-0-0.42	06/26/2012	06/30/2012	0 0.42	0.022
E-SB-931	E-SB-931-CS-0-0.33	06/26/2012	06/30/2012	0 0.33	0.066
E-SB-932	E-SB-932-CS-0-0.25	06/26/2012	06/30/2012	0 0.25	0.97
E-SB-933	E-SB-933-CS-0-0.42	06/26/2012	06/30/2012	0 0.42	0 U

Table 2-3

Summary of Total Aroclor Concentrations in Concrete Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

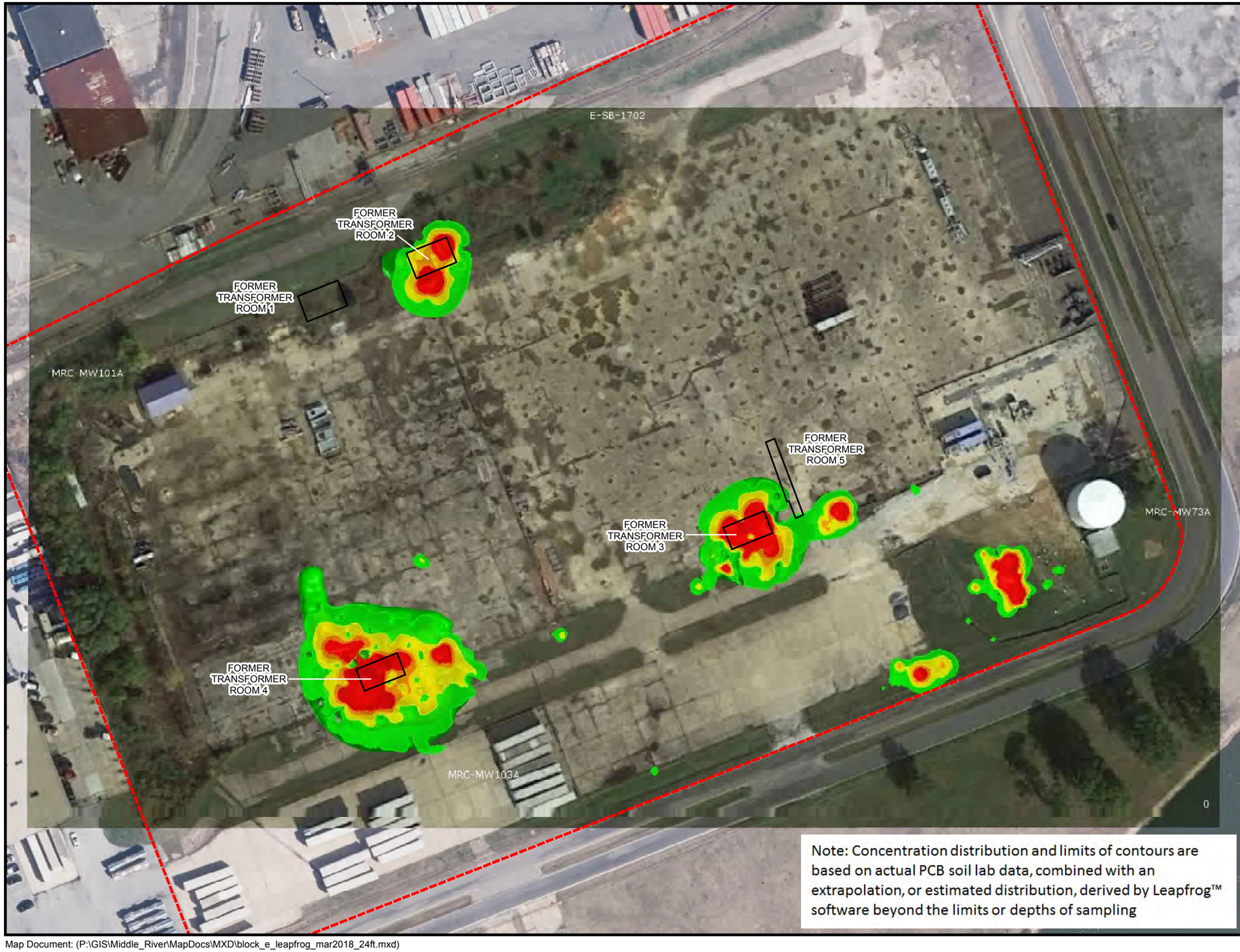
Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
E-SB-934	E-SB-934-CS-0-0.42	06/27/2012	07/06/2012	0 0.42	0 U
E-SB-935	E-SB-935-CS-0-0.33	06/26/2012	06/30/2012	0 0.33	0.28
E-SB-936	E-SB-936-CS-0-0.25	06/26/2012	06/30/2012	0 0.25	0.023
E-SB-937	E-SB-937-CS-0-0.25	06/25/2012	06/30/2012	0 0.25	0.025
E-SB-938	E-SB-938-CS-0-0.17	06/25/2012	06/30/2012	0 0.17	1.2
E-SB-939	E-SB-939-CS-0-0.33	06/26/2012	06/30/2012	0 0.33	0.023
E-SB-940	E-SB-940-CS-0-0.33	06/26/2012	06/30/2012	0 0.33	0.14
E-SB-941	E-SB-941-CS-0-0.25	06/25/2012	06/30/2012	0 0.25	0.052
E-SB-942	E-SB-942-CS-0-0.33	06/25/2012	06/30/2012	0 0.33	5.8
E-SB-943	E-SB-943-CS-0-0.25	06/26/2012	06/30/2012	0 0.25	0.13
E-SB-944	E-SB-944-CS-0-0.5	06/27/2012	07/06/2012	0 0.5	0 U
E-SB-945	E-SB-945-CS-0-0.5	06/28/2012	07/03/2012	0 0.5	0.028
E-SB-946	E-SB-946-CS-0-0.33	06/26/2012	06/30/2012	0 0.33	0 U
E-SB-947	E-SB-947-CS-0-0.25	06/26/2012	06/30/2012	0 0.25	12
E-SB-948	E-SB-948-CS-0-0.25	06/25/2012	06/30/2012	0 0.25	0.35
E-SB-949	E-SB-949-CS-0-0.5	06/27/2012	07/10/2012	0 0.5	0 U
E-SB-950	E-SB-950-CS-0-0.5	06/27/2012	07/06/2012	0 0.5	0 U
E-SB-951	E-SB-951-CS-0-0.33	06/26/2012	06/30/2012	0 0.33	0.081
E-SB-952	E-SB-952-CS-0-0.33	06/25/2012	06/30/2012	0 0.33	0.14
E-SB-953	E-SB-953-CS-0-0.42	06/27/2012	07/06/2012	0 0.42	0 U
E-SB-954	E-SB-954-CS-0-0.25	06/25/2012	06/30/2012	0 0.25	0 U
E-SB-961	E-SB-961-CS-0-0.5	06/27/2012	07/06/2012	0 0.5	0.09
E-SB-962	E-SB-962-CS-0-0.42	06/28/2012	07/06/2012	0 0.42	0.021
E-SB-963	E-SB-963-CS-0-0.5	06/27/2012	07/07/2012	0 0.5	0.058
E-SB-969	E-SB-969-CS-0-0.5	06/27/2012	07/07/2012	0 0.5	0 U
E-SB-970	E-SB-970-CS-0-0.5	06/27/2012	07/07/2012	0 0.5	0 U
E-SB-971	E-SB-971-CS-0-0.5	06/27/2012	07/07/2012	0 0.5	0 U
E-SB-1398	E-SS-1398-CS	11/13/2014	11/17/2014	0 0.5	0 U
SB-551	SB-551-SS[CS]	10/23/2008	10/30/2008	0 0.5	0 U
SB-552	SB-552-SS[CS]	10/23/2008	10/30/2008	0 0.5	0.3844
SB-553	SB-553-SS[CS]	10/21/2008	10/24/2008	0 0.5	0.41
SB-554	SB-554-SS[CS]	10/21/2008	10/24/2008	0 0.5	0.48

Table 2-4

Summary of Total Aroclor Concentrations in Storm Sewer Sediment Samples
Block E Soil Risk-Based Disposal Approval Application
Lockheed Martin Middle River Complex, Middle River, MD

Location ID	Sample ID	Sample Date	Analysis Date	Sample Depth (feet)	Total Aroclor Concentration (mg/kg)
E-CB06	E-SD-CB6-09131(	09/13/2016	09/21/2016	NA	0.038
E-IL10	E-SD-IL10-09121	09/12/2016	09/21/2016	NA	0.87
E-IL15	E-SD-IL15-09121	09/12/2016	09/21/2016	NA	0.63
E-IL16	E-SD-IL16-09121	09/12/2016	09/21/2016	NA	0.12
E-IL17	E-SD-IL17-09121	09/12/2016	09/21/2016	NA	20
E-IL18	E-SD-IL18-09121	09/12/2016	09/21/2016	NA	81
E-IL19	E-SD-IL19-09121	09/12/2016	09/21/2016	NA	100
E-IL02	E-SD-IL20-09121	09/12/2016	09/21/2016	NA	9.4
E-IL23	E-SD-IL23-09121	09/12/2016	09/21/2016	NA	1.2
E-IL03	E-SD-IL3-091216	09/12/2016	09/21/2016	NA	0.41
E-IL05	E-SD-IL5-091216	09/12/2016	09/21/2016	NA	0.24
E-IL07	E-SD-IL7-091216	09/12/2016	09/21/2016	NA	0.19
E-IL07	E-SD-IL7-091216	09/12/2016	09/21/2016	NA	0.19
E-IL08	E-SD-IL8-091216	09/12/2016	09/21/2016	NA	1.1
E-MH04	E-SD-MH4-09121	09/12/2016	09/21/2016	NA	19
E-MH07	E-SD-MH7-09121	09/12/2016	09/21/2016	NA	910
E-MH09	E-SD-MH9-09121	09/12/2016	09/21/2016	NA	3.4
ILSD-15	ILSD-15	06/11/2009	06/16/2009	0-12	2
ILSD-16	ILSD-16	06/11/2009	06/16/2009	0-12	0 U
ILSD-17	ILSD-17	06/12/2009	06/18/2009	0-12	16
ILSD-18	ILSD-18	06/11/2009	06/16/2009	0-12	102
ILSD-19	ILSD-19	06/11/2009	06/16/2009	0-12	42
ILSD-20	ILSD-20	06/11/2009	06/16/2009	0-12	16
ILSD-09	ILSD-9	06/12/2009	06/18/2009	0-12	0.65
MHSD-04	MHSD-4	06/11/2009	06/16/2009	0-12	31
MHSD-07	MHSD-7	06/11/2009	06/16/2009	0-12	25
MHSD-07	MHSD-7A	06/11/2009	06/16/2009	0-12	14
SD-172	SD-172-0-3	12/19/2013	12/27/2013	0-36	54
SD-173	SD-173-0-3	12/19/2013	12/27/2013	0-36	220
SD-181	SD-181-0-1	12/20/2013	12/28/2013	0-12	420
SD-182	SD-182-0-3	12/20/2013	12/28/2013	0-36	780
SD-183	SD-183-0-1	12/20/2013	12/28/2013	0-12	40

APPENDIX B—LEAPFROG FIGURES FROM REMEDIAL INVESTIGATION REPORT



Note: Concentration distribution and limits of contours are based on actual PCB soil lab data, combined with an extrapolation, or estimated distribution, derived by Leapfrog™ software beyond the limits or depths of sampling

FIGURE B-1

TOTAL AROCLOR ISOCONTOURS,
2-4 FEET RESULTS
BLOCK E

LEGEND

TOTAL AROCLOR RESULTS

- > 100 MG/KG
- > 58 AND ≤ 100 MG/KG
- > 25 AND ≤ 58 MG/KG
- > 10 AND ≤ 25 MG/KG
- TAX BLOCK

Isocontour graphics created with LeapFrog Geo using 2017, 2016 and pre-2015 soil sampling data.

Aerial photograph used with LeapFrog isocontours obtained from Google Earth, © 2014 Google, Inc. Image used with permission.
2014 background aerial photograph provided by U.S. Geological Survey.

Lockheed Martin Middle River Complex
Middle River, Maryland

0 50 100 Feet

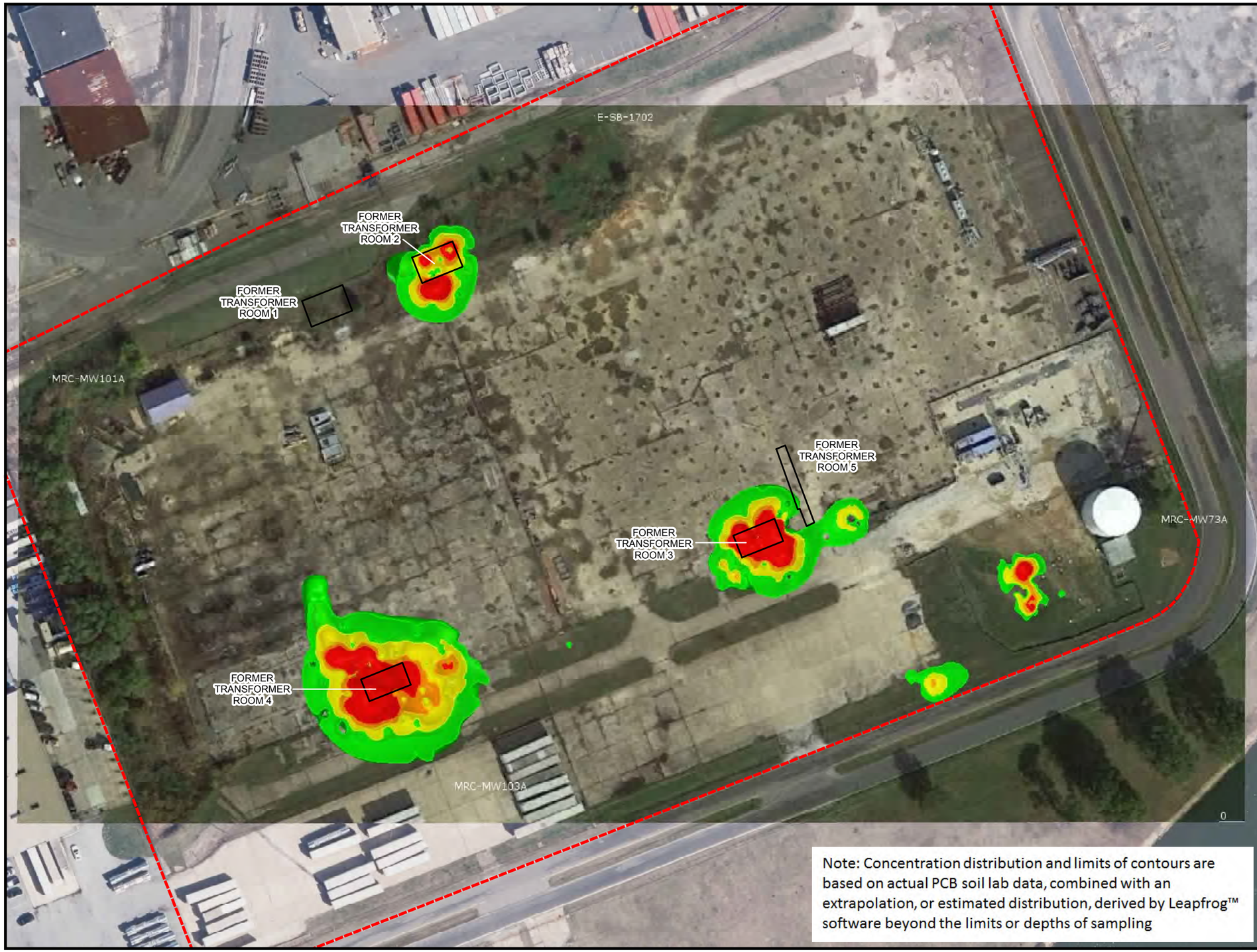
N

DATE MODIFIED: 04/03/18

CREATED BY: JEE

TETRA TECH

Map Document: (P:\GIS\Middle_River\MapDocs\MXD\block_e_leapfrog_mar2018_24ft.mxd)
04/03/18 -- JEE



Note: Concentration distribution and limits of contours are based on actual PCB soil lab data, combined with an extrapolation, or estimated distribution, derived by Leapfrog™ software beyond the limits or depths of sampling

FIGURE B-2

TOTAL AROCLOR ISOCONTOURS, 4-6 FEET RESULTS BLOCK E

LEGEND

TOTAL AROCLOR RESULTS

- > 100 MG/KG
- > 58 AND ≤ 100 MG/KG
- > 25 AND ≤ 58 MG/KG
- > 10 AND ≤ 25 MG/KG
- FORMER TRANSFORMER ROOM
- TAX BLOCK

Isocontour graphics created with LeapFrog Geo using 2017, 2016 and pre-2015 soil sampling data.

Aerial photograph used with LeapFrog isocontours obtained from Google Earth, © 2014 Google, Inc. Image used with permission.
2014 background aerial photograph provided by U.S. Geological Survey.

Lockheed Martin Middle River Complex
Middle River, Maryland

0 50 100 Feet

N

DATE MODIFIED: 04/03/18

CREATED BY: JEE

TETRA TECH

Map Document: (P:\GIS\Middle_River\MapDocs\MXD\block_e_leapfrog_mar2018_46ft.mxd)
04/03/18 -- JEE

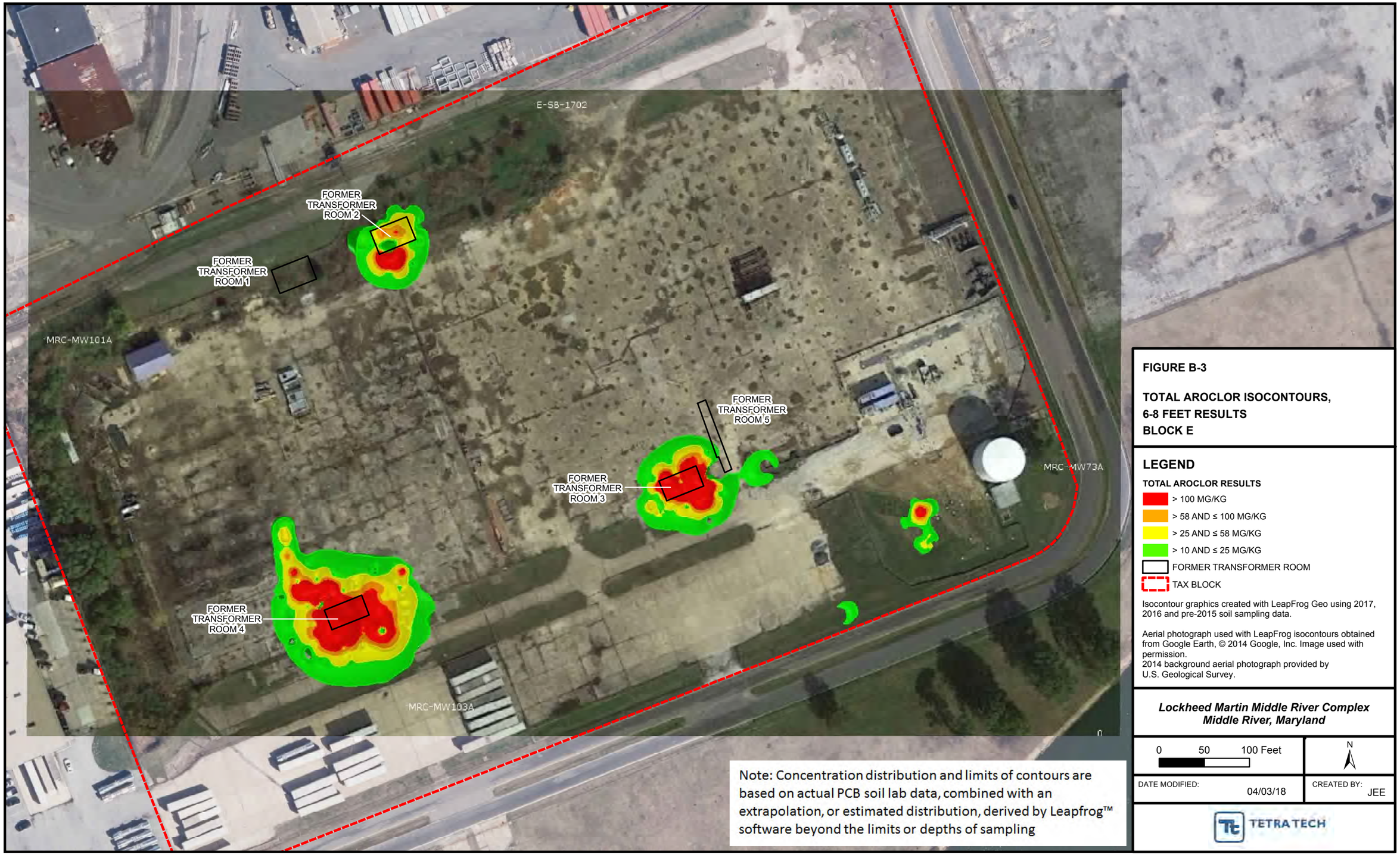


FIGURE B-3

TOTAL AROCLOR ISOCONTOURS,
6-8 FEET RESULTS
BLOCK E

LEGEND

TOTAL AROCLOR RESULTS

- > 100 MG/KG
- > 58 AND ≤ 100 MG/KG
- > 25 AND ≤ 58 MG/KG
- > 10 AND ≤ 25 MG/KG
- FORMER TRANSFORMER ROOM
- TAX BLOCK

Isocontour graphics created with LeapFrog Geo using 2017, 2016 and pre-2015 soil sampling data.

Aerial photograph used with LeapFrog isocontours obtained from Google Earth, © 2014 Google, Inc. Image used with permission.
2014 background aerial photograph provided by U.S. Geological Survey.

Lockheed Martin Middle River Complex
Middle River, Maryland

0 50 100 Feet

N

DATE MODIFIED: 04/03/18

CREATED BY: JEE

TETRA TECH

Map Document: (P:\GIS\Middle_River\MapDocs\MXD\block_e_leapfrog_mar2018_68ft.mxd)
04/03/18 -- JEE

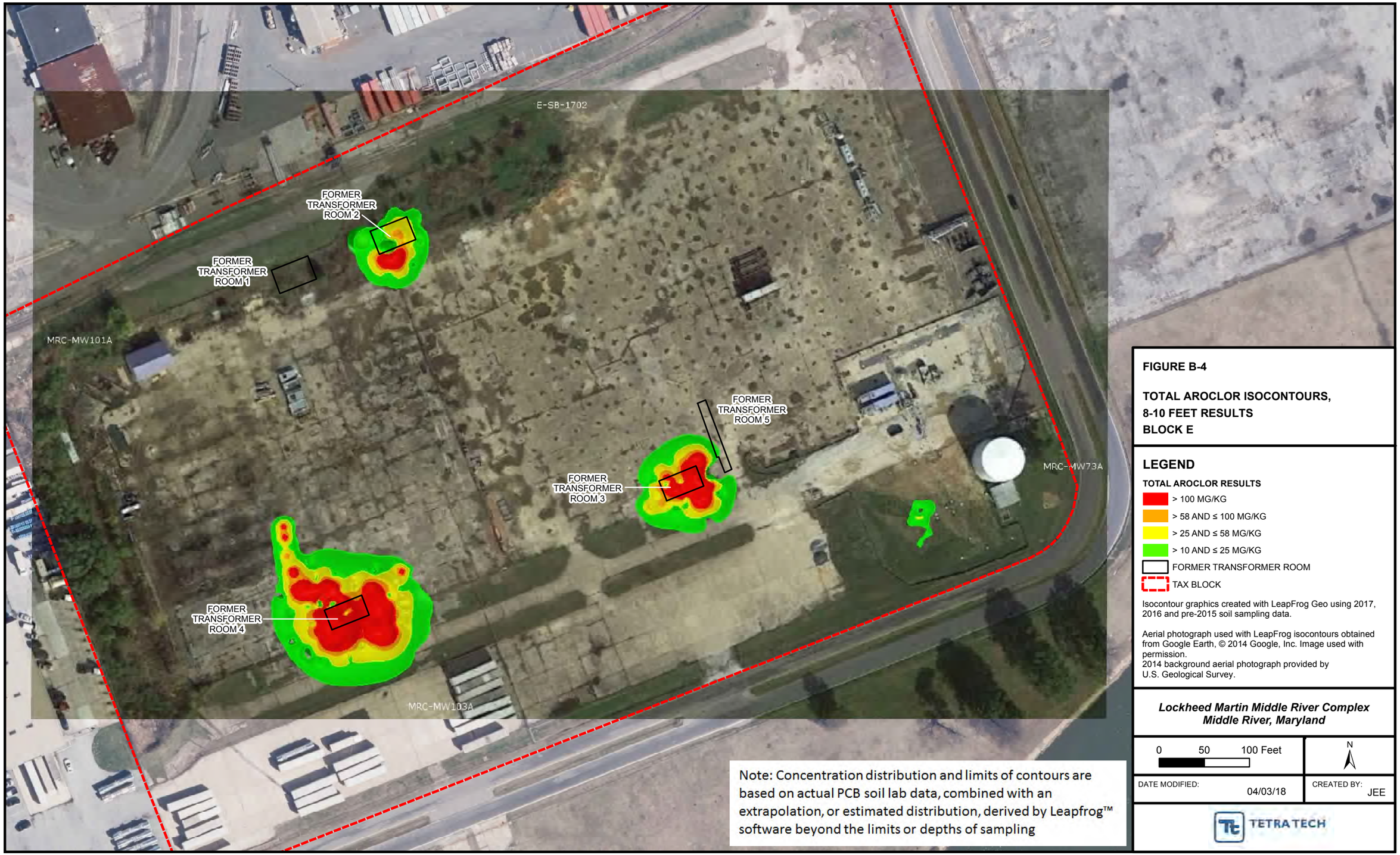


FIGURE B-4

**TOTAL AROCLOR ISOCONTOURS,
8-10 FEET RESULTS
BLOCK E**

LEGEND

TOTAL AROCLOR RESULTS

- > 100 MG/KG
- > 58 AND ≤ 100 MG/KG
- > 25 AND ≤ 58 MG/KG
- > 10 AND ≤ 25 MG/KG
- FORMER TRANSFORMER ROOM
- TAX BLOCK

Isocontour graphics created with LeapFrog Geo using 2017, 2016 and pre-2015 soil sampling data.

Aerial photograph used with LeapFrog isocontours obtained from Google Earth, © 2014 Google, Inc. Image used with permission.
2014 background aerial photograph provided by U.S. Geological Survey.

***Lockheed Martin Middle River Complex
Middle River, Maryland***

0 50 100 Feet

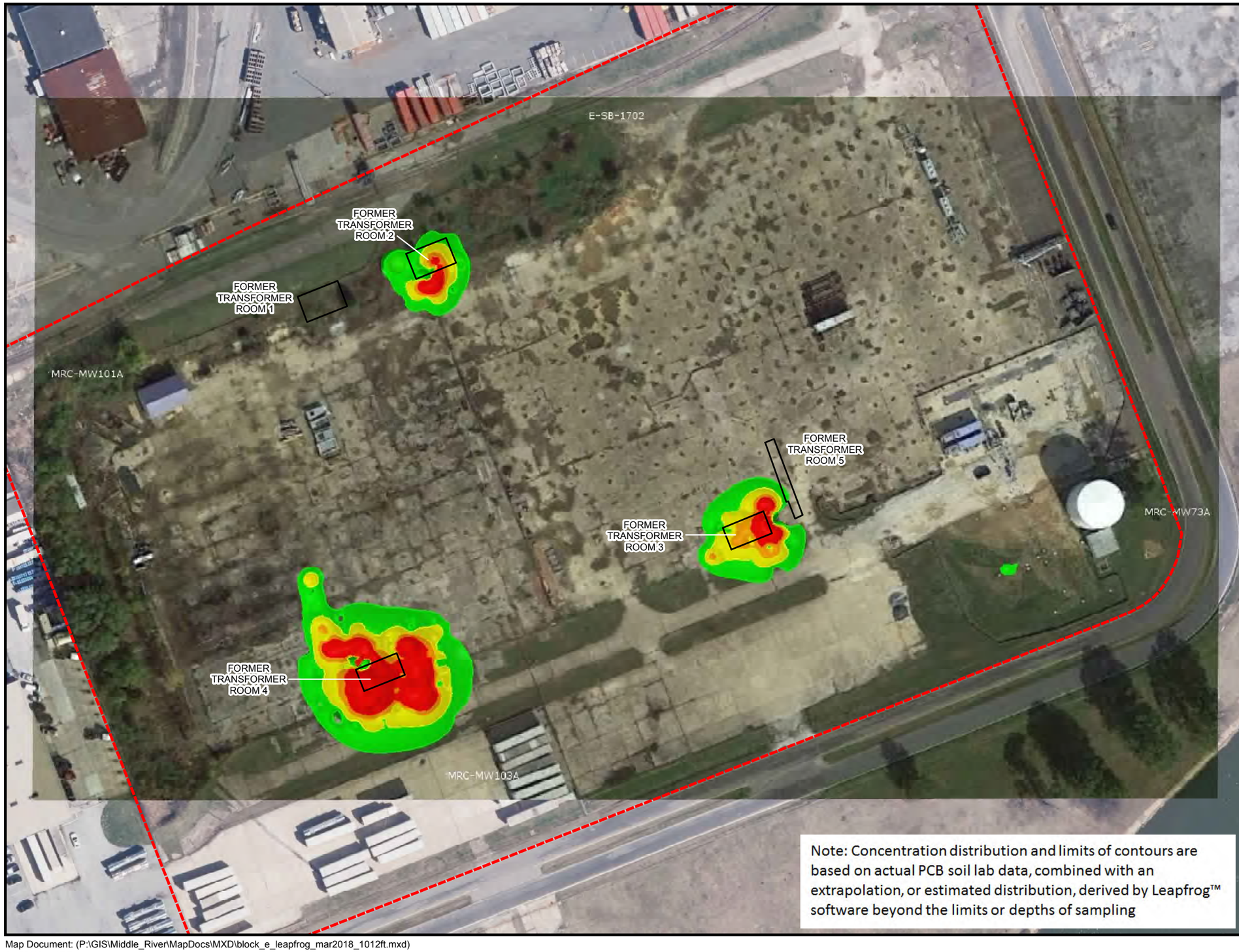
N

DATE MODIFIED: 04/03/18

CREATED BY: JEE

TETRA TECH

Map Document: (P:\GIS\Middle_River\MapDocs\MXD\block_e_leapfrog_mar2018_810ft.mxd)
04/03/18 -- JEE



Note: Concentration distribution and limits of contours are based on actual PCB soil lab data, combined with an extrapolation, or estimated distribution, derived by Leapfrog™ software beyond the limits or depths of sampling

FIGURE B-5

TOTAL AROCLOR ISOCONTOURS, 10-12 FEET RESULTS BLOCK E

LEGEND

TOTAL AROCLOR RESULTS

- > 100 MG/KG
- > 58 AND ≤ 100 MG/KG
- > 25 AND ≤ 58 MG/KG
- > 10 AND ≤ 25 MG/KG
- FORMER TRANSFORMER ROOM
- TAX BLOCK

Isocontour graphics created with LeapFrog Geo using 2017, 2016 and pre-2015 soil sampling data.

Aerial photograph used with LeapFrog isocontours obtained from Google Earth, © 2014 Google, Inc. Image used with permission.
2014 background aerial photograph provided by U.S. Geological Survey.

Lockheed Martin Middle River Complex
Middle River, Maryland

0 50 100 Feet

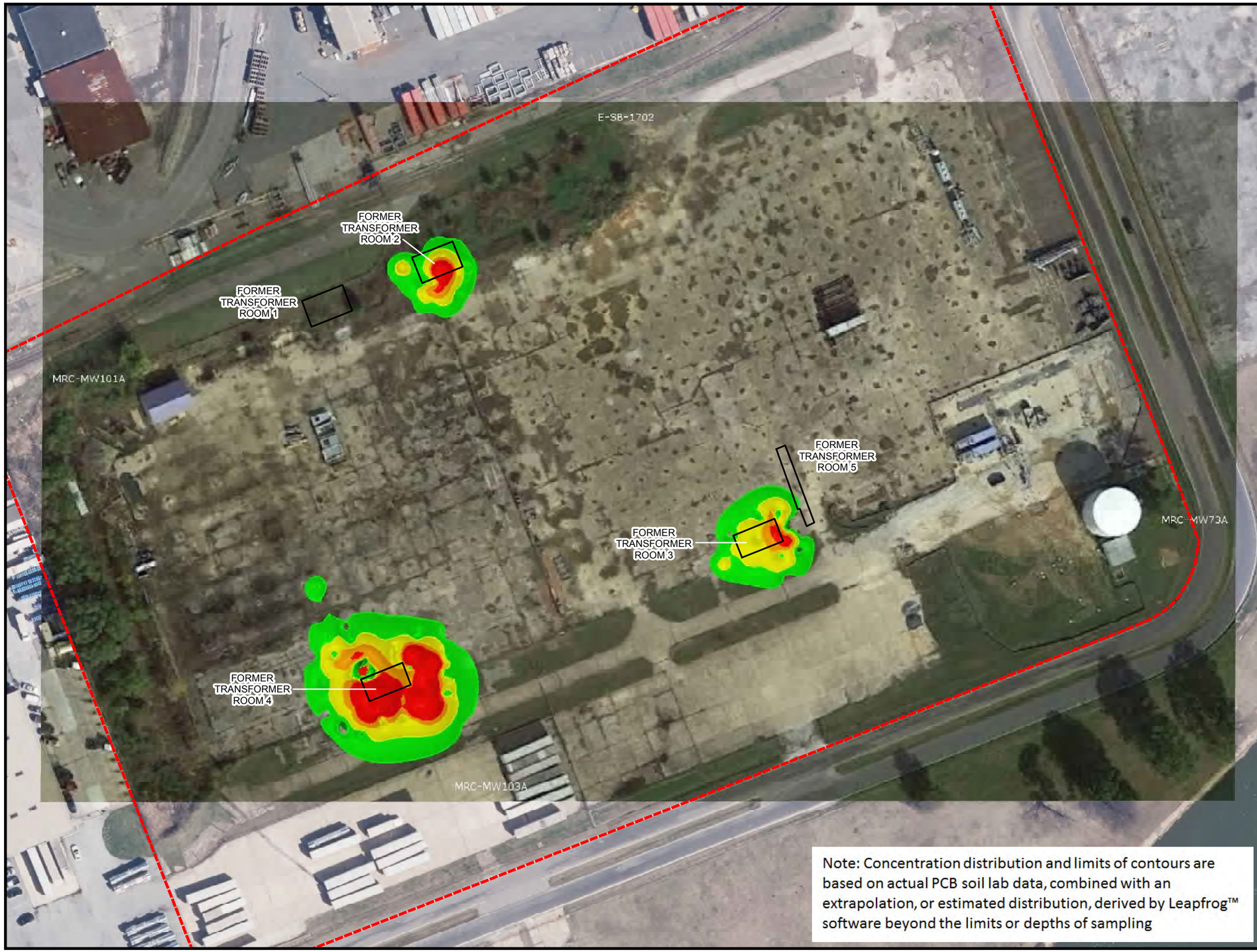
N

DATE MODIFIED: 04/03/18

CREATED BY: JEE

TETRA TECH

Map Document: (P:\GIS\Middle_River\MapDocs\MXD\block_e_leapfrog_mar2018_1012ft.mxd)
04/03/18 -- JEE



Note: Concentration distribution and limits of contours are based on actual PCB soil lab data, combined with an extrapolation, or estimated distribution, derived by Leapfrog™ software beyond the limits or depths of sampling

FIGURE B-6

TOTAL AROCLOR ISOCONTOURS, 12-14 FEET RESULTS BLOCK E

LEGEND

TOTAL AROCLOR RESULTS

- > 100 MG/KG
- > 58 AND ≤ 100 MG/KG
- > 25 AND ≤ 58 MG/KG
- > 10 AND ≤ 25 MG/KG
- FORMER TRANSFORMER ROOM
- TAX BLOCK

Isocontour graphics created with LeapFrog Geo using 2017, 2016 and pre-2015 soil sampling data.

Aerial photograph used with LeapFrog isocontours obtained from Google Earth, © 2014 Google, Inc. Image used with permission.
2014 background aerial photograph provided by U.S. Geological Survey.

Lockheed Martin Middle River Complex
Middle River, Maryland

0 50 100 Feet

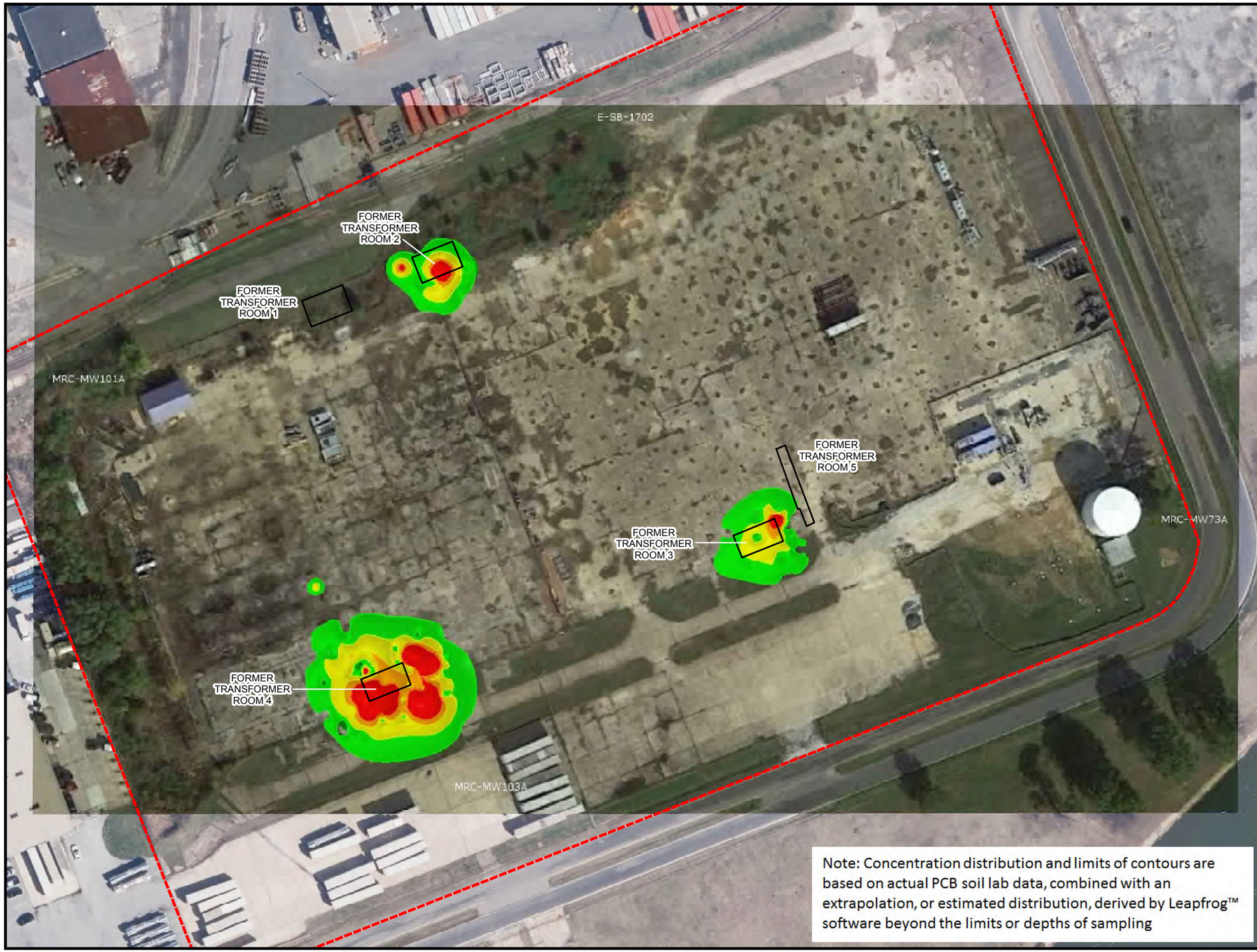
N

DATE MODIFIED: 04/03/18

CREATED BY: JEE

TETRA TECH

Map Document: (P:\GIS\Middle_River\MapDocs\MXD\block_e_leapfrog_mar2018_1214ft.mxd)
04/03/18 -- JEE



Note: Concentration distribution and limits of contours are based on actual PCB soil lab data, combined with an extrapolation, or estimated distribution, derived by Leapfrog™ software beyond the limits or depths of sampling

FIGURE B-7

TOTAL AROCLOR ISOCONTOURS,
14-16 FEET RESULTS
BLOCK E

LEGEND

TOTAL AROCLOR RESULTS

- > 100 MG/KG
- > 58 AND ≤ 100 MG/KG
- > 25 AND ≤ 58 MG/KG
- > 10 AND ≤ 25 MG/KG
- FORMER TRANSFORMER ROOM
- TAX BLOCK

Isocontour graphics created with LeapFrog Geo using 2017, 2016 and pre-2015 soil sampling data.

Aerial photograph used with LeapFrog isocontours obtained from Google Earth, © 2014 Google, Inc. Image used with permission.
2014 background aerial photograph provided by U.S. Geological Survey.

Lockheed Martin Middle River Complex
Middle River, Maryland

0 50 100 Feet

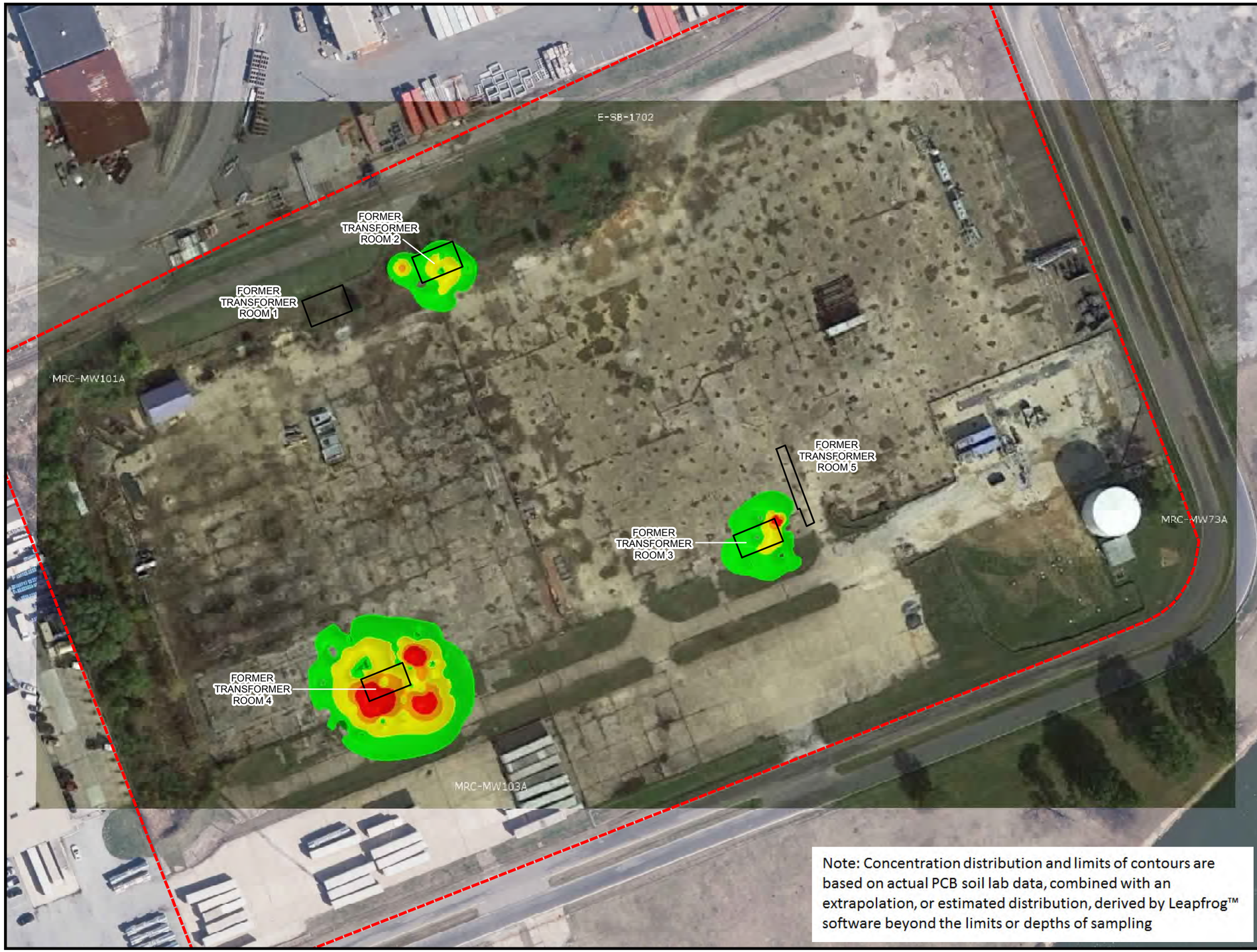
N

DATE MODIFIED: 04/03/18

CREATED BY: JEE

TETRA TECH

Map Document: (P:\GIS\Middle_River\MapDocs\MXD\block_e_leapfrog_mar2018_1416ft.mxd)
04/03/18 -- JEE



Note: Concentration distribution and limits of contours are based on actual PCB soil lab data, combined with an extrapolation, or estimated distribution, derived by Leapfrog™ software beyond the limits or depths of sampling

FIGURE B-8

TOTAL AROCLOR ISOCONTOURS,
16-18 FEET RESULTS
BLOCK E

LEGEND

TOTAL AROCLOR RESULTS

- > 100 MG/KG
- > 58 AND ≤ 100 MG/KG
- > 25 AND ≤ 58 MG/KG
- > 10 AND ≤ 25 MG/KG
- FORMER TRANSFORMER ROOM
- TAX BLOCK

Isocontour graphics created with LeapFrog Geo using 2017, 2016 and pre-2015 soil sampling data.

Aerial photograph used with LeapFrog isocontours obtained from Google Earth, © 2014 Google, Inc. Image used with permission.
2014 background aerial photograph provided by U.S. Geological Survey.

Lockheed Martin Middle River Complex
Middle River, Maryland

0 50 100 Feet

N

DATE MODIFIED: 04/03/18

CREATED BY: JEE

TETRA TECH

Map Document: (P:\GIS\Middle_River\MapDocs\MXD\block_e_leapfrog_mar2018_1618ft.mxd)
04/03/18 -- JEE

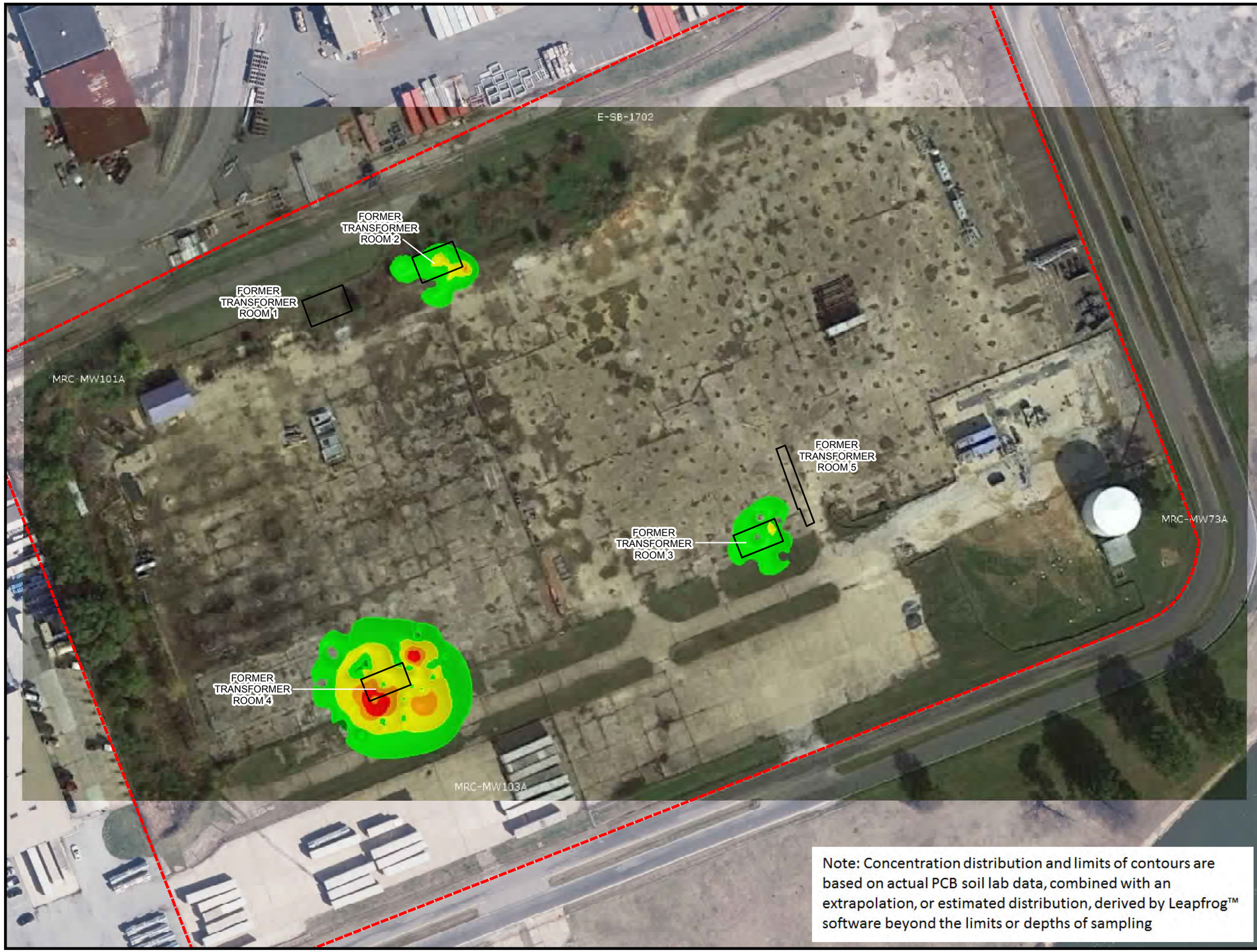


FIGURE B-9

TOTAL AROCLOR ISOCONTOURS, 18-20 FEET RESULTS BLOCK E

LEGEND

TOTAL AROCLOR RESULTS

- > 100 MG/KG
- > 58 AND ≤ 100 MG/KG
- > 25 AND ≤ 58 MG/KG
- > 10 AND ≤ 25 MG/KG
- FORMER TRANSFORMER ROOM
- TAX BLOCK

Isocontour graphics created with LeapFrog Geo using 2017, 2016 and pre-2015 soil sampling data.

Aerial photograph used with LeapFrog isocontours obtained from Google Earth, © 2014 Google, Inc. Image used with permission.
2014 background aerial photograph provided by U.S. Geological Survey.

Lockheed Martin Middle River Complex
Middle River, Maryland

0 50 100 Feet

N

DATE MODIFIED: 04/03/18

CREATED BY: JEE

TETRA TECH

Note: Concentration distribution and limits of contours are based on actual PCB soil lab data, combined with an extrapolation, or estimated distribution, derived by Leapfrog™ software beyond the limits or depths of sampling

Map Document: (P:\GIS\Middle_River\MapDocs\MXD\block_e_leapfrog_mar2018_1820ft.mxd)
04/03/18 -- JEE

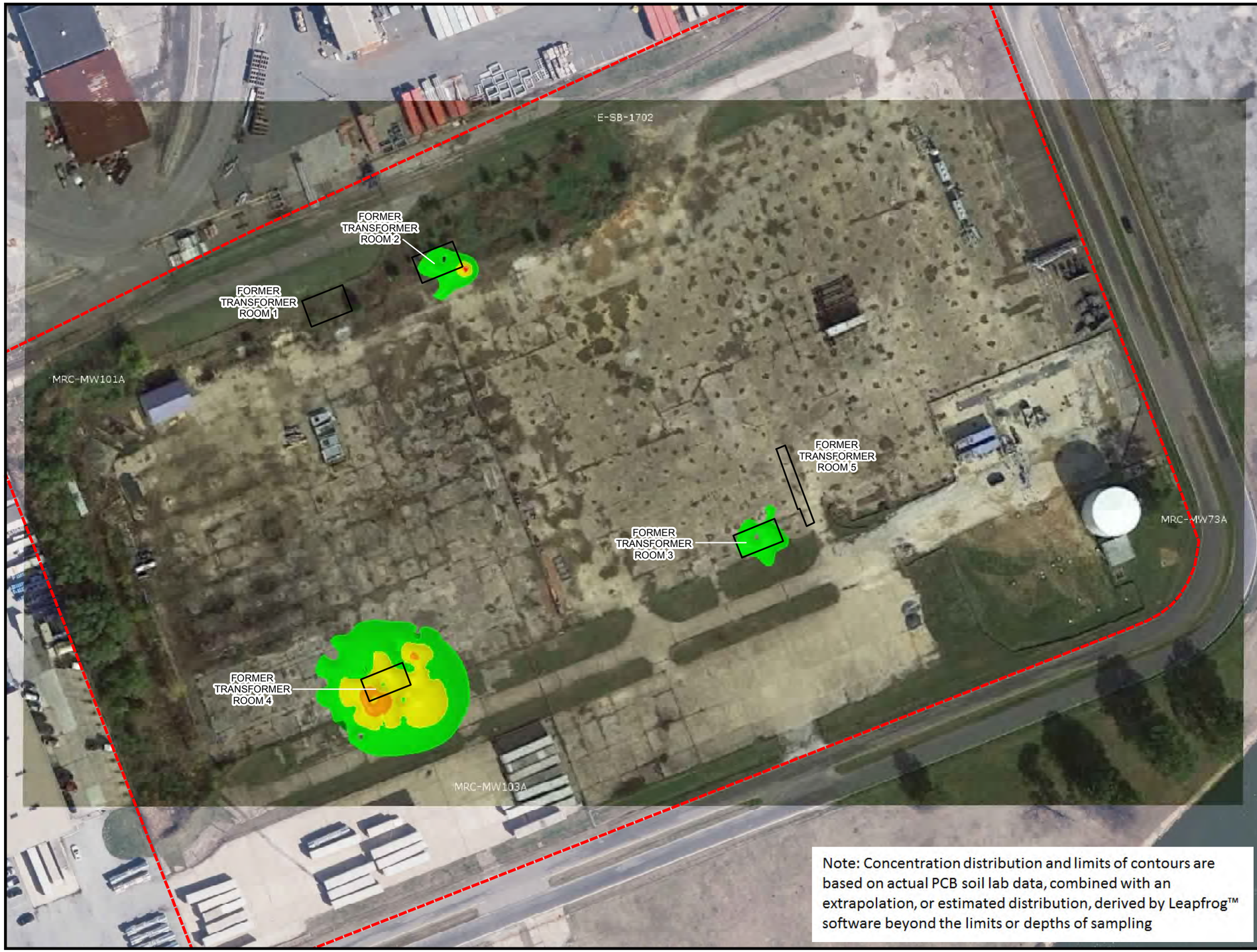


FIGURE B-10

TOTAL AROCLOR ISOCONTOURS, 20-22 FEET RESULTS BLOCK E

LEGEND

TOTAL AROCLOR RESULTS

- > 100 MG/KG
- > 58 AND ≤ 100 MG/KG
- > 25 AND ≤ 58 MG/KG
- > 10 AND ≤ 25 MG/KG
- FORMER TRANSFORMER ROOM
- TAX BLOCK

Isocontour graphics created with LeapFrog Geo using 2017, 2016 and pre-2015 soil sampling data.

Aerial photograph used with LeapFrog isocontours obtained from Google Earth, © 2014 Google, Inc. Image used with permission.
2014 background aerial photograph provided by U.S. Geological Survey.

Lockheed Martin Middle River Complex
Middle River, Maryland

0 50 100 Feet

N

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TETRA TECH

Map Document: (P:\GIS\Middle_River\MapDocs\MXD\block_e_leapfrog_mar2018_2022ft.mxd)
04/03/18 -- JEE

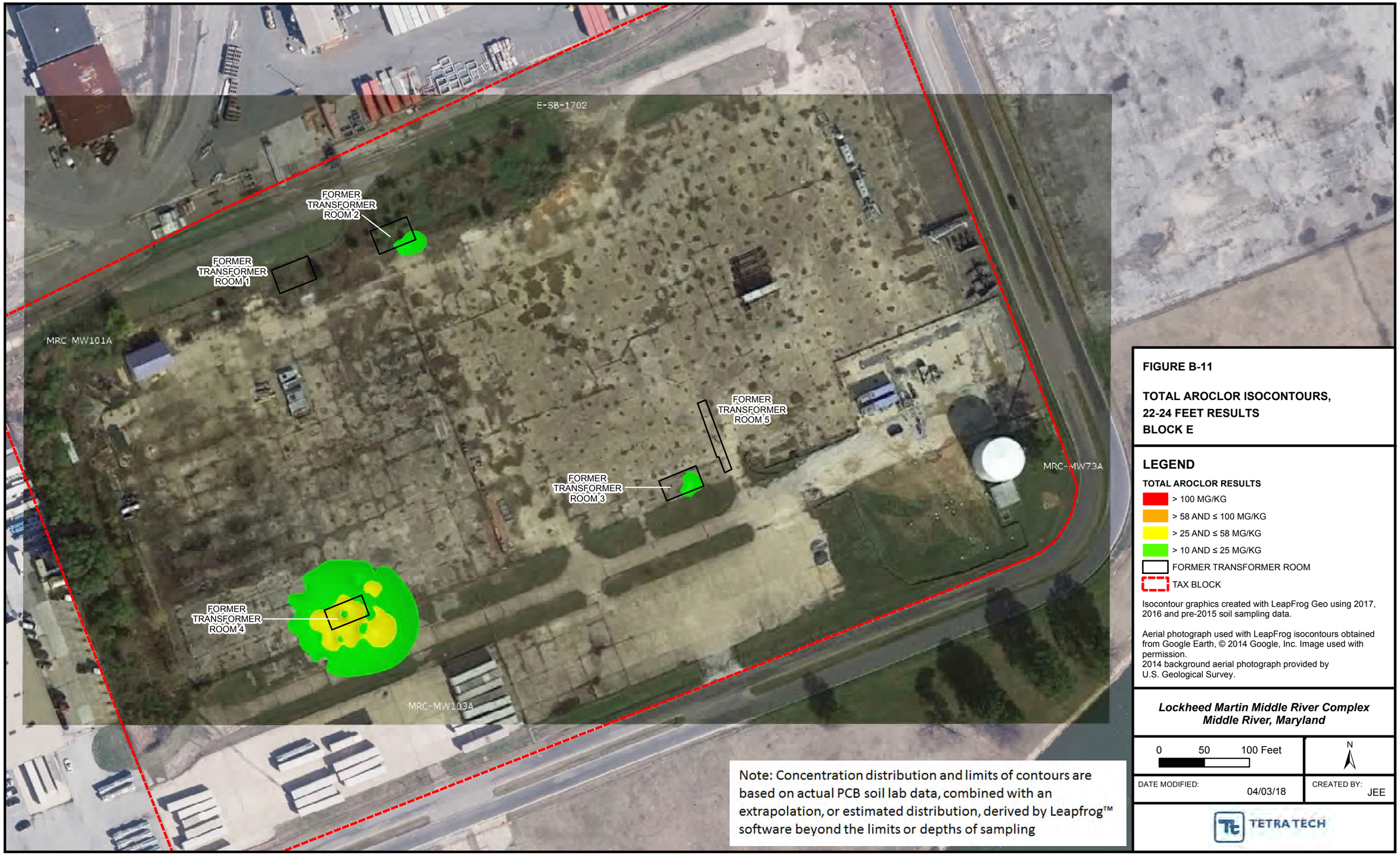

FIGURE B-11

TOTAL AROCLOR ISOCONTOURS, 22-24 FEET RESULTS BLOCK E

LEGEND

TOTAL AROCLOR RESULTS

- > 100 MG/KG
- > 58 AND ≤ 100 MG/KG
- > 25 AND ≤ 58 MG/KG
- > 10 AND ≤ 25 MG/KG
- FORMER TRANSFORMER ROOM
- TAX BLOCK

Isocontour graphics created with LeapFrog Geo using 2017, 2016 and pre-2015 soil sampling data.

Aerial photograph used with LeapFrog isocontours obtained from Google Earth, © 2014 Google, Inc. Image used with permission.
2014 background aerial photograph provided by U.S. Geological Survey.

Lockheed Martin Middle River Complex
Middle River, Maryland

0 50 100 Feet

N

DATE MODIFIED: 04/03/18

CREATED BY: JEE

TETRA TECH

Map Document: (P:\GIS\Middle_River\MapDocs\MXD\block_e_leapfrog_mar2018_2224ft.mxd)
04/03/18 -- JEE

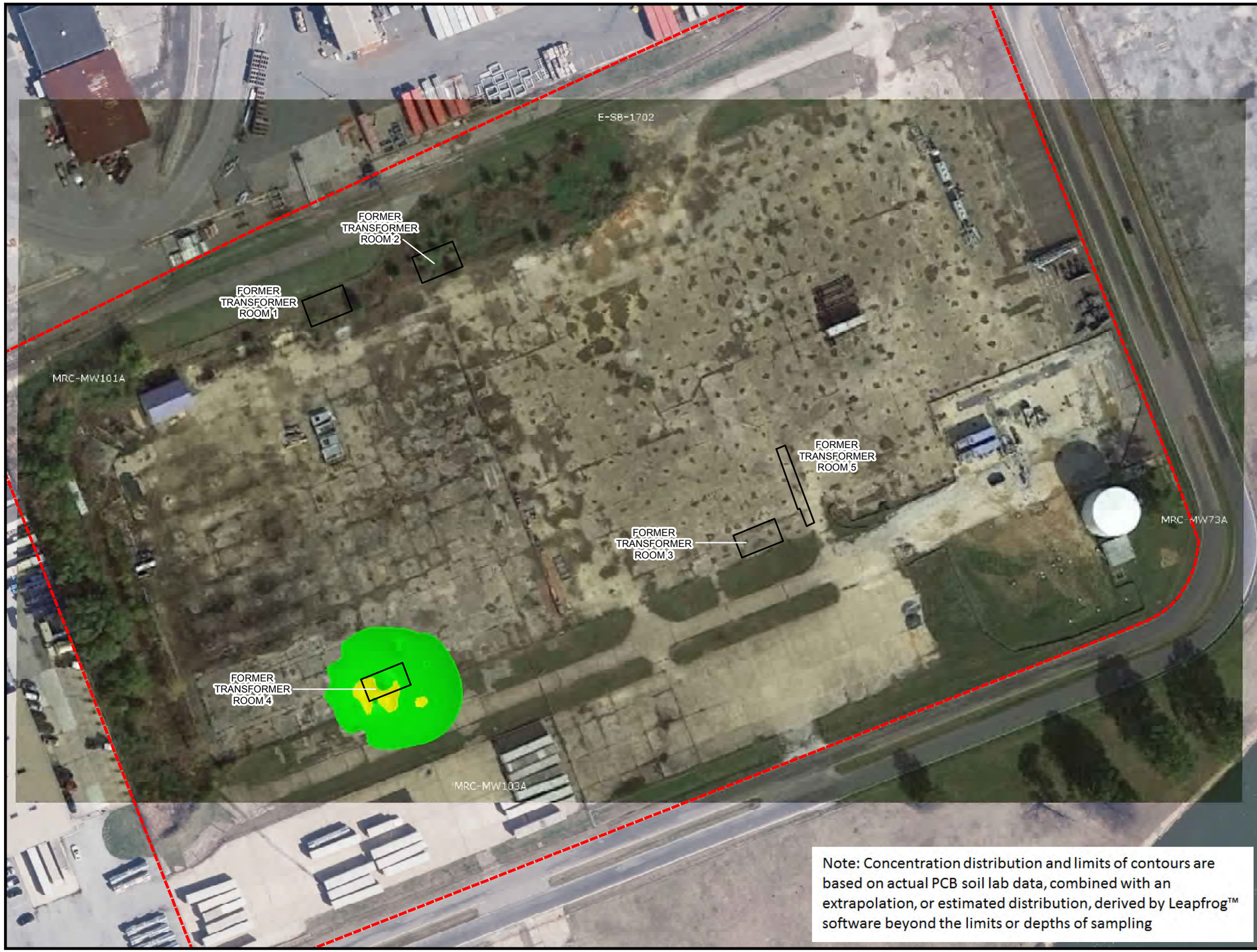

FIGURE B-12

TOTAL AROCLOR ISOCONTOURS, 24-26 FEET RESULTS BLOCK E

LEGEND

TOTAL AROCLOR RESULTS

- > 100 MG/KG
- > 58 AND ≤ 100 MG/KG
- > 25 AND ≤ 58 MG/KG
- > 10 AND ≤ 25 MG/KG
- FORMER TRANSFORMER ROOM
- TAX BLOCK

Isocontour graphics created with LeapFrog Geo using 2017, 2016 and pre-2015 soil sampling data.

Aerial photograph used with LeapFrog isocontours obtained from Google Earth, © 2014 Google, Inc. Image used with permission.
2014 background aerial photograph provided by U.S. Geological Survey.

Lockheed Martin Middle River Complex
Middle River, Maryland

0 50 100 Feet

N

DATE MODIFIED: 04/03/18

CREATED BY: JEE

TETRA TECH

Note: Concentration distribution and limits of contours are based on actual PCB soil lab data, combined with an extrapolation, or estimated distribution, derived by Leapfrog™ software beyond the limits or depths of sampling

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04/03/18 -- JEE

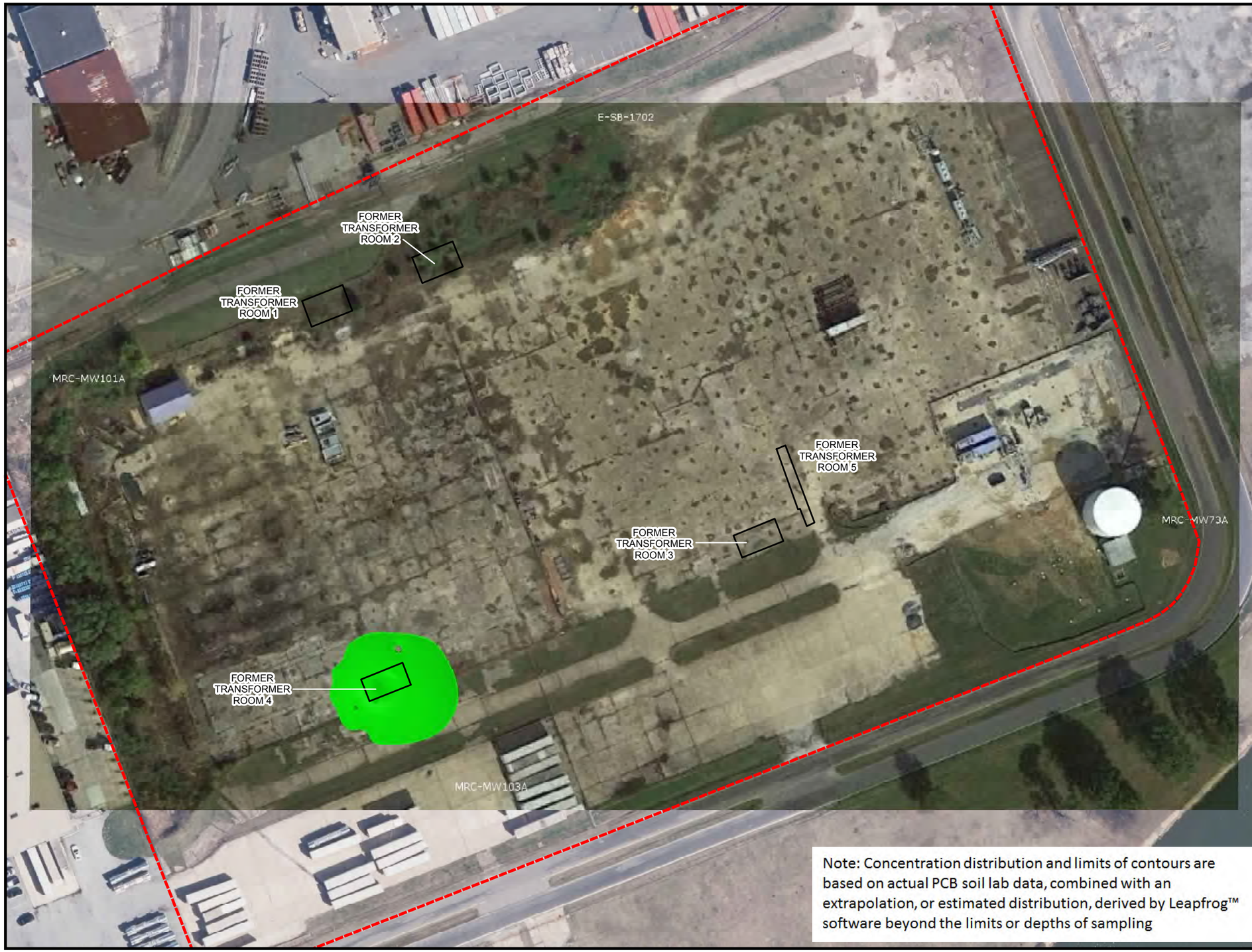

FIGURE B-13

TOTAL AROCLOR ISOCONTOURS, 26-28 FEET RESULTS BLOCK E

LEGEND

TOTAL AROCLOR RESULTS

- > 100 MG/KG
- > 58 AND ≤ 100 MG/KG
- > 25 AND ≤ 58 MG/KG
- > 10 AND ≤ 25 MG/KG
- FORMER TRANSFORMER ROOM
- TAX BLOCK

Isocontour graphics created with LeapFrog Geo using 2017, 2016 and pre-2015 soil sampling data.

Aerial photograph used with LeapFrog isocontours obtained from Google Earth, © 2014 Google, Inc. Image used with permission.
2014 background aerial photograph provided by U.S. Geological Survey.

Lockheed Martin Middle River Complex
Middle River, Maryland

0 50 100 Feet

N

DATE MODIFIED: 04/03/18

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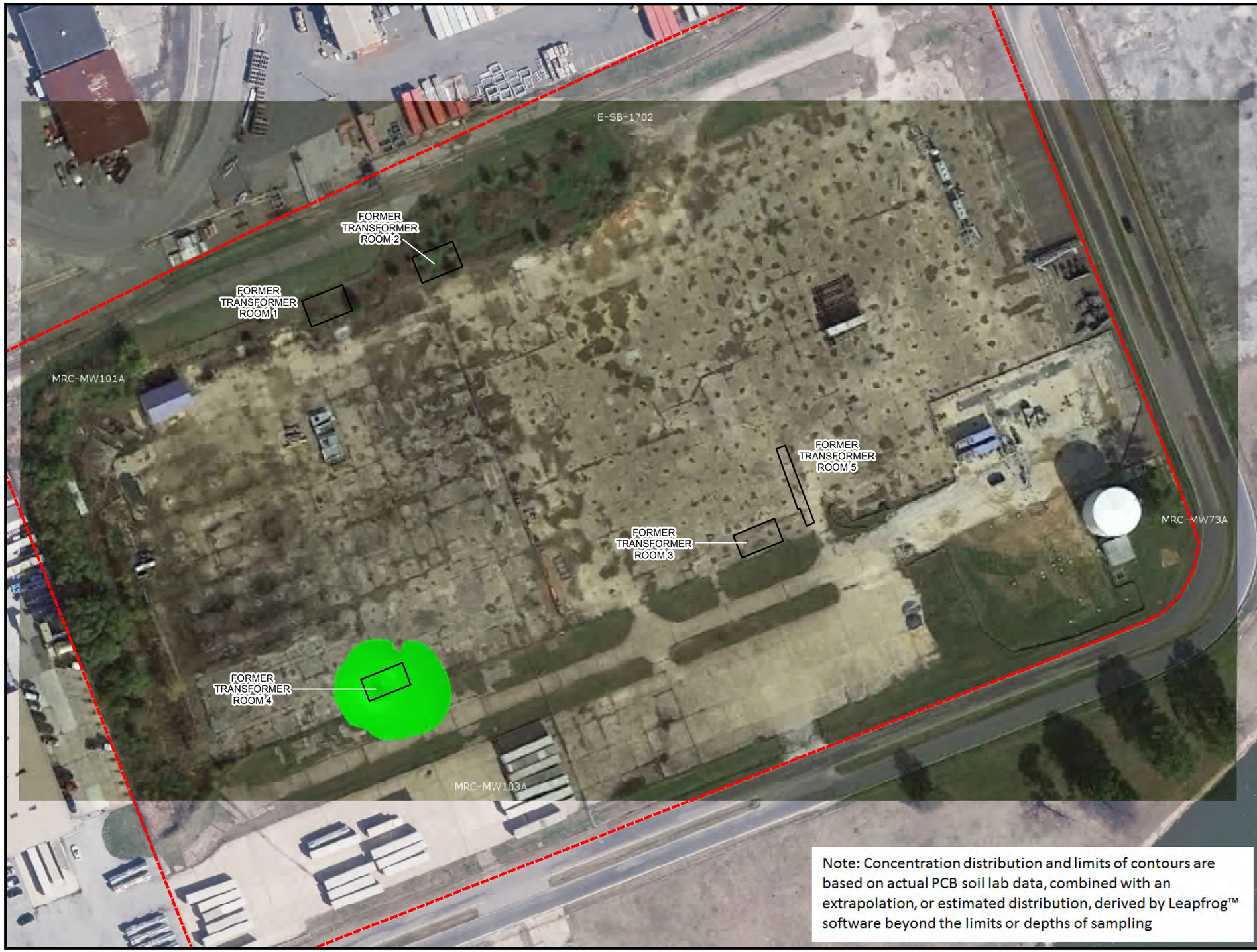
TETRA TECH

Note: Concentration distribution and limits of contours are based on actual PCB soil lab data, combined with an extrapolation, or estimated distribution, derived by Leapfrog™ software beyond the limits or depths of sampling

Map Document: (P:\GIS\Middle_River\MapDocs\MXD\block_e_leapfrog_mar2018_2628ft.mxd)
04/03/18 -- JEE



Note: Concentration distribution and limits of contours are based on actual PCB soil lab data, combined with an extrapolation, or estimated distribution, derived by Leapfrog™ software beyond the limits or depths of sampling

FIGURE B-14

TOTAL AROCLOR ISOCONTOURS, 28-30 FEET RESULTS BLOCK E

LEGEND

TOTAL AROCLOR RESULTS

- > 100 MG/KG
- > 58 AND ≤ 100 MG/KG
- > 25 AND ≤ 58 MG/KG
- > 10 AND ≤ 25 MG/KG
- FORMER TRANSFORMER ROOM
- TAX BLOCK

Isocontour graphics created with LeapFrog Geo using 2017, 2016 and pre-2015 soil sampling data.

Aerial photograph used with LeapFrog isocontours obtained from Google Earth, © 2014 Google, Inc. Image used with permission.
2014 background aerial photograph provided by U.S. Geological Survey.

Lockheed Martin Middle River Complex
Middle River, Maryland

0 50 100 Feet

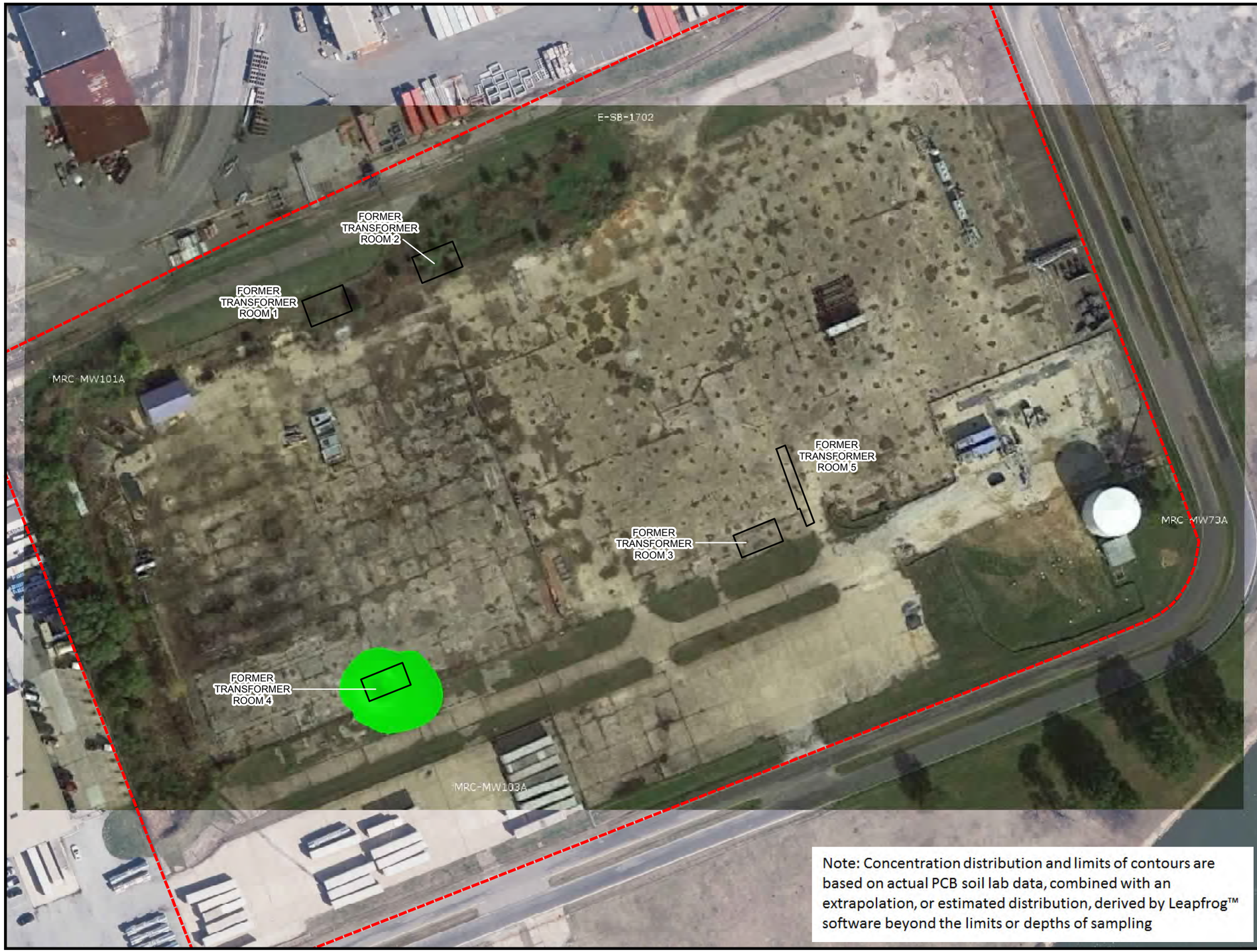
N

DATE MODIFIED: 04/03/18

CREATED BY: JEE

TETRA TECH

Map Document: (P:\GIS\Middle_River\MapDocs\MXD\block_e_leapfrog_mar2018_2830ft.mxd)
04/03/18 -- JEE



Note: Concentration distribution and limits of contours are based on actual PCB soil lab data, combined with an extrapolation, or estimated distribution, derived by Leapfrog™ software beyond the limits or depths of sampling

FIGURE B-15

TOTAL AROCLOR ISOCONTOURS, 30-32 FEET RESULTS BLOCK E

LEGEND

TOTAL AROCLOR RESULTS

- > 100 MG/KG
- > 58 AND ≤ 100 MG/KG
- > 25 AND ≤ 58 MG/KG
- > 10 AND ≤ 25 MG/KG
- FORMER TRANSFORMER ROOM
- TAX BLOCK

Isocontour graphics created with LeapFrog Geo using 2017, 2016 and pre-2015 soil sampling data.

Aerial photograph used with LeapFrog isocontours obtained from Google Earth, © 2014 Google, Inc. Image used with permission.
2014 background aerial photograph provided by U.S. Geological Survey.

Lockheed Martin Middle River Complex
Middle River, Maryland

0 50 100 Feet

N

DATE MODIFIED: 04/03/18

CREATED BY: JEE

TETRA TECH

Map Document: (P:\GIS\Middle_River\MapDocs\MXD\block_e_leapfrog_mar2018_3032ft.mxd)
04/03/18 -- JEE

APPENDIX C—DATA/DESIGN REPORTS SUBMITTED TO THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

APPENDIX C
BLOCK E SOIL CHARACTERIZATION REPORTS SUBMITTED TO THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

- Lockheed Martin, 2014. *Interim Remedial Action Soil Removal in Block E Associated with the Groundwater Remedy: Performance-Based Disposal, Middle River Complex, Middle River, Maryland.* Letter Report prepared by Tetra Tech, Inc., Germantown, Maryland for Lockheed Martin Corporation, Bethesda, Maryland. August.
- Lockheed Martin, 2016. *Block E Soil Remedial Investigation Work Plan, Lockheed Martin Middle River Complex, 2323 Eastern Boulevard, Middle River, Maryland.* Report prepared by Tetra Tech, Inc., Germantown, Maryland for Lockheed Martin Corporation, Bethesda, Maryland. January.
- Lockheed Martin, 2016. *Block E Soil Remedial Investigation Work Plan Addendum: Radiological Sampling, Middle River Complex, Middle River, Maryland.* Report prepared by Tetra Tech, Inc., Germantown, Maryland for Lockheed Martin Corporation, Bethesda, Maryland. August.
- Lockheed Martin, 2016. *Block E Soil Remedial Investigation Work Plan Addendum 2: Winter 2016/2017 Soil Sampling, Middle River Complex, Middle River, Maryland.* Report prepared by Tetra Tech, Inc., Germantown, Maryland for Lockheed Martin Corporation, Bethesda, Maryland. October.
- Lockheed Martin, 2017. *Block E Soil Remedial Investigation Addendum Report: Radiological Sediment Sampling of Outfall 006 and 008 Storm Drain Systems, Lockheed Martin Middle River Complex, Middle River, Maryland*. Memorandum report prepared by Tetra Tech, Inc., Germantown, Maryland for Lockheed Martin Corporation, Bethesda, Maryland. February 20, 2017.
- Lockheed Martin, 2017. *Block E Soil Remedial Investigation Addendum Report: PCB Sediment Sampling of Outfall 006 and 008 Storm Drain Systems, Lockheed Martin Middle River Complex, Middle River, Maryland*. Memorandum report prepared by Tetra Tech, Inc., Germantown, Maryland for Lockheed Martin Corporation, Bethesda, Maryland. February 20, 2017.
- Lockheed Martin, 2017. *Protecting the Middle River Complex Sediment Remedy from PCBs in Storm Drains, Lockheed Martin Middle River Complex, Middle River, Maryland*. Memorandum report prepared by Tetra Tech, Inc., Germantown, Maryland for Lockheed Martin Corporation, Bethesda, Maryland. March 3, 2017.
- Lockheed Martin, 2017. *Block E Soil Remedial Investigation Addendum Report: Radiological Soil Sampling, Lockheed Martin Middle River Complex, Middle River, Maryland*. Memorandum report prepared by Tetra Tech, Inc., Germantown, Maryland for Lockheed Martin Corporation, Bethesda, Maryland. July 28, 2017.

- Lockheed Martin, 2017. *Block E 2016 Storm-Drain Assessment Report Middle River Complex, Middle River, Maryland*. Memorandum report prepared by Tetra Tech, Inc., Germantown, Maryland for Lockheed Martin Corporation, Bethesda, Maryland. August 22, 2017.
- Lockheed Martin, 2017. *Technical Memorandum—Preliminary Remediation Goals for Industrial and Construction Workers Block E Soil Remediation, Lockheed Martin Middle River Complex, Middle River, Maryland.* Report prepared by Tetra Tech, Inc., Germantown, Maryland for Lockheed Martin Corporation, Bethesda, Maryland. September.
- Lockheed Martin, 2017. *Block E Soil Remedial Investigation Work Plan Addendum 3: Fall 2016/2017 Soil and Groundwater Sampling, Middle River Complex, Middle River, Maryland.* Report prepared by Tetra Tech, Inc., Germantown, Maryland for Lockheed Martin Corporation, Bethesda, Maryland. October.
- Lockheed Martin, 2017. *Addendum 4 Block E Soil Remedial Investigation Work Plan Remedial Action Alternatives Evaluation Data Collection, Middle River Complex, Middle River, Maryland.* Report prepared by Tetra Tech, Inc., Germantown, Maryland for Lockheed Martin Corporation, Bethesda, Maryland. December.
- Lockheed Martin, 2018. *Block E Storm Drain Monitoring Report: PCB Sediment Sampling of Storm Drain Systems for Outfall 006 and 008, Lockheed Martin Middle River Complex, Middle River, Maryland*. Memorandum report prepared by Tetra Tech, Inc., Germantown, Maryland for Lockheed Martin Corporation, Bethesda, Maryland. February 13, 2018.
- Tetra Tech, Inc. (Tetra Tech), 2004. *Final Report Phase II Site Investigation of Exterior Areas, Volumes I and II, Lockheed Martin Middle River Complex.* Report prepared by Tetra Tech, Inc., Germantown, Maryland for Lockheed Martin Corporation, Bethesda, Maryland. February.
- Tetra Tech, Inc. (Tetra Tech), 2004. *Radiological Survey Report for Former Building D, Lockheed Martin Middle River Complex.* Report prepared by Tetra Tech, Inc., Germantown, Maryland for Lockheed Martin Corporation, Bethesda, Maryland. April.
- Tetra Tech, Inc. (Tetra Tech), 2005. *2004 Phase II Environmental Site Assessment, Lockheed Martin Middle River Complex.* Report prepared by Tetra Tech, Inc., Germantown, Maryland for Lockheed Martin Corporation, Bethesda, Maryland. January.
- Tetra Tech, Inc. (Tetra Tech), 2005. *Final Data Report, Site-Wide Phase II Investigation, Lockheed Martin Middle River Complex.* Report prepared by Tetra Tech, Inc., Germantown, Maryland for Lockheed Martin Corporation, Bethesda, Maryland. April.
- Tetra Tech, Inc. (Tetra Tech), 2006. Phase II Soil Investigation, Lockheed Martin Middle River Complex. Report prepared by Tetra Tech, Inc., Germantown, Maryland for Lockheed Martin Corporation, Bethesda, Maryland. May.
- Tetra Tech, Inc. (Tetra Tech), 2006. *Site Characterization Report, Revision 1.0, Lockheed Martin Middle River Complex.* Report prepared by Tetra Tech, Inc., Germantown, Maryland for Lockheed Martin Corporation, Bethesda, Maryland. May.

- Tetra Tech, Inc. (Tetra Tech), 2010. *Block E Supplemental Soil and Storm-Drain-Sediment Characterization Report, Lockheed Martin Middle River Complex*. Report prepared by Tetra Tech, Inc., Germantown, Maryland for Lockheed Martin Corporation, Bethesda, Maryland. October.
- Tetra Tech, Inc. (Tetra Tech), 2011. *Block E Data-Summary Report, Lockheed Martin Middle River Complex*. Report prepared by Tetra Tech, Inc., Germantown, Maryland for Lockheed Martin Corporation, Bethesda, Maryland. March.
- Tetra Tech, Inc. (Tetra Tech), 2012. *Utility Cross-Connection Investigation Report, Lockheed Martin Middle River Complex, 2323 Eastern Boulevard, Middle River, Maryland*. Report prepared by Tetra Tech, Inc., Germantown, Maryland for Lockheed Martin Corporation, Bethesda, Maryland. January.
- Tetra Tech, Inc. (Tetra Tech), 2012. *Block E Storm-Drain Interim Remedial Measures Final Site-Remediation Report, Lockheed Martin Middle River Complex, 2323 Eastern Boulevard, Middle River, Maryland*. Report prepared by Tetra Tech, Inc., Germantown, Maryland for Lockheed Martin Corporation, Bethesda, Maryland. February.
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APPENDIX D—SITE PCB DATA LABORATORY AND VALIDATION REPORTS

Appendix D

Laboratory and data validation reports will be provided to the USEPA under separate cover.