BT Td [(B)T Td [(B)2(C620 >>BDC Tecg1i(,)-4(MD)]TJ 0 Tc 0 Tw 6.0 Td-4.28/MCID 1 Lockheed Martin Corporation 6801 Rockledge Drive MP: CCT246 Bethesda, MD20817

Telephone 301

Concentrations ranging frozzeroppm to 3.2 partsper million (ppm) were detected in areas surrounding SV-136A. The highest PID reading detected during the two surveys was in an open walkway west of SV-136A. This concentration was greater that PID results (0.3 ppm and 0.4 ppm) detected immediately adjacent to SM 36A. The PID measured no detectable reading sp(f) at the MRAS excavation area north of the former plating shop. Indoor air sampling locations and rational ein Table 1. Sampling locations and PID survey results are shown on Figure

Summa[®] canister sampling during downtime Following the PID surveys, Summa anisters were used to collect nine samples Novemberl, 2016, as follows:

Indoor air quality (eighthour samples):

- two samples EXC-1 and EXG2) adjacent to the MRAS excavation area north of the former plating shop
- one near S\018A, in the firepump room in BuildingA basement
- one near S\015ASV99 neIndoor

comparison of the TCE concentrations detected in indoor altheothree sampling events at locations 015-A, 018-A, 079-A, and 136-A.

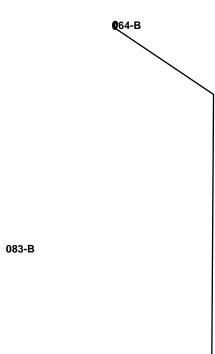
Conclusions—No exceedances of the TCE indoor air screening level whete tected in the aboratory analytical results The PID survey and Summer anister sampling results ugest that he shutdown of the SSDS caused singnificant subslab vapor or indoor air-quality issues within the buildings.

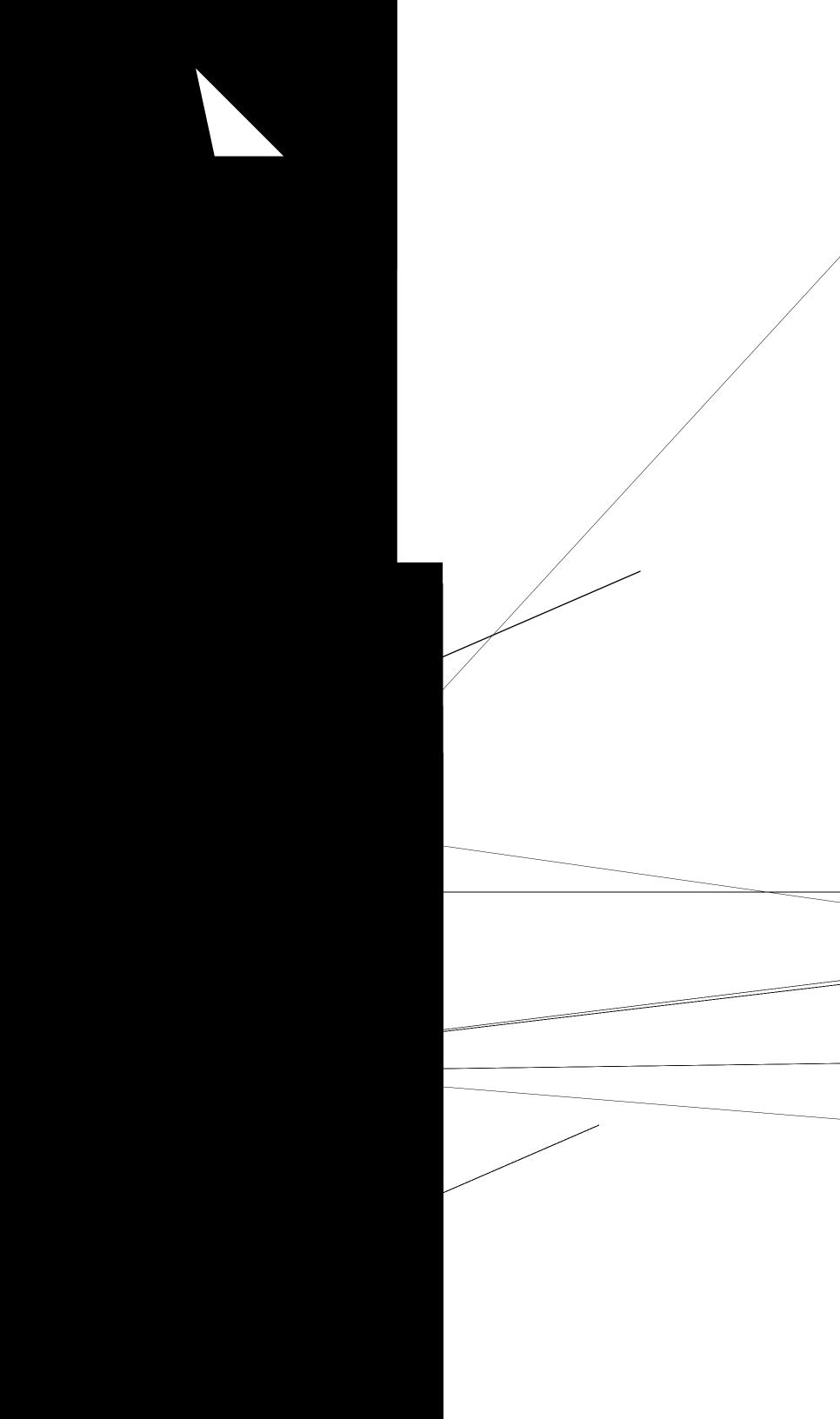
Sincerely,

LynnetteM. Drake Remediation Project Leatenvironmental Remediation Lockheed Martin Corporation

cc: (via email) Christine Kline, Lockheed Martin Norman Varney, Lockheed Martin Scott Heinlein, Lockheed Martin John Morgan, LMCPI Michael Martin, Tetra Tech Cannon Silver, CDM Smith Steve Winston Jann Richardson, Lockheed Mart Mike Musheno, LMCPI Doug Mettee, Lockheed Martin MST

FIGURES





TABLES

Table 1

PID Survey Sample Locations and Rational, Buildings A and B Lockheed Martin Middle River Complex, Middle River, Maryland

Sample ID	Sample Locations and Rationale				
PID-1	Along western wall of Building A main floor monitoring within the immediate area of the Middle River Aircraft System (MRAS) excavation.				
PID-2	Along the eastern side of the MRAS excavation area monitoring the area just outside of the plastic sheeting inside the building.				
PID-3	In Building A near sub-slab monitoring point SV-018-A to monitor breathing zone in the basement area.				
PID-4	In Building A basement monitoring large rectangular sump that has shown elevated trichloroethene (TCE) concentrations during previous monitoring events				
PID-5	In the former plating shop (current expanded Bond Layup Room) to monitor the location of the sub-slab depressurization system (SSDS) trench and monitoring points on the main floor of Building A				
PID-6	On the eastern side of the Building A main floor near the autoclaves monitoring the area of SV-079-A that has shown elevated sub-slab concentrations of TCE				
PID-7	At the major intersection in the central portion of Building A, on the main floor monitoring area, halfway between former plating shop and new rout and trim area (SV-136-A) that has shown elevated sub-slab TCE concentrations.				
PID-8	In western portion of Building B just across the Building A/B divide monitoring outside Aero Tooling workshop south of the SV-136-A area				
PID-9	At intersection of open walkways at the Building A/B divide monitoring area immediately southeast of SV-136-A				
PID-10	Located in open walkway just behind sanding booths in new rout and trim area monitoring area south of the SV-136-A.				
PID-11	In central portion of Building A in open walkway heading toward and monitoring area southwest of SV-136-A.				
PID-12	In north-central portion of Building A in open walkway monitoring area west of SV-136-A				
PID-13	In northeastern portion of Building A, in open walkway monitoring area north of SV-136-A				
PID-14	Adjacent to the SV-136-A area monitoring, in an area of elevated sub-slab TCE concentrations, and where new vertical extraction points were recently added to the SSDS				
PID-15	In open walkway at the Building A/B divide monitoring area, just northwest of SV-136-A				
PID-16	In open walkway at the Building A/B divide monitoring area, just northwest of SV-136-A				

Abbreviations:

MRAS - Middle River Aircraft Systems

PID - photoionization detector

ppm - parts per million SSDS - sub-slab depressurization system

TCE - trichloroethene

Table 2Comparison of Indoor Air Quality (Summa ® Canister) and Sub- Slab Soil VaporTCE Concentrations to PID Survey ResultsLockheed Martin Middle River Complex, Middle River, Maryland

Sample ID	IA ^(1,3)	SV ^(1,2)	PID (10/28/16)	PID (10/31/16)
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