TABLE OF CONTENTS

LIST OF TABLES

LIST OF FIGURES

Table 1-1

Proposed Permanent Soil Vapor Points Round 9 Rationale
Lockheed Martin Middle River Complex
Middle River, Maryland

sample round. Final sample locations will be determined based on conditions at the time of VMP installation and/or utility locations.

In Building A, a total of six new VMPs are proposed. The purposes of the proposed VMP locations are to help complete a sampling grid across the MRC and fill identified data gaps. Two sample locations are proposed for the northern portion of the Building A first floor. These samples will help complete the grid and fill a data gap where no samples were previously collected including at the northwest corner of Building A. Two samples are proposed east of the Building A Plating Shop on the first floor of Building A. These samples will help complete the sampling grid and provide information regarding the presence or absence of sub-slab contamination between locations where sub-slab contamination is known to be present (Building A Plating Shop sample SV-A-15 and sample location SV-A-6). The remaining two proposed sample locations are in the Building A Basement. These sample locations will help complete the sampling grid but will also provide information about the possible extent of sub-slab contamination north and south of where it has been historically detected at sample location SV-A-18.

In Building B, a total of five new VMPs are proposed. These samples include four on the first floor of Building B and one in the Building B Basement. These samples are proposed to complete the sampling grid in Building B and to fill the data gap due to an absence of data.

One new VMP is proposed for installation south of Building B in the Masking Area of the Fire Coat Building. This location is proposed due to an absence of data and to provide information about possible association between this location, results of soil gas samples collected south of Building B during the Block I Investigation (Tetra Tech, 2009) and SV results from inside of Building B.

In Building C, a total of two new VMPs are proposed. These samples will fill two data gaps. The first sample is located in the northeast corner of the Building C Basement. This location will complete the grid covering the last corner of the MRC that has not been sampled and will provide information about possible associations with soil gas results collected during the Block I Investigation (Tetra Tech, 2009). The second proposed VMP location is in the central portion of the Building C Basement. This sample is proposed to help complete the sampling grid as well as

to fill the data gap associated with the absence of data northeast of where sub-slab contamination has been identified at sample locations SV-C-4 and ISG-03.

1.2 PROPOSED IAQ SAMPLING LOCATIONS

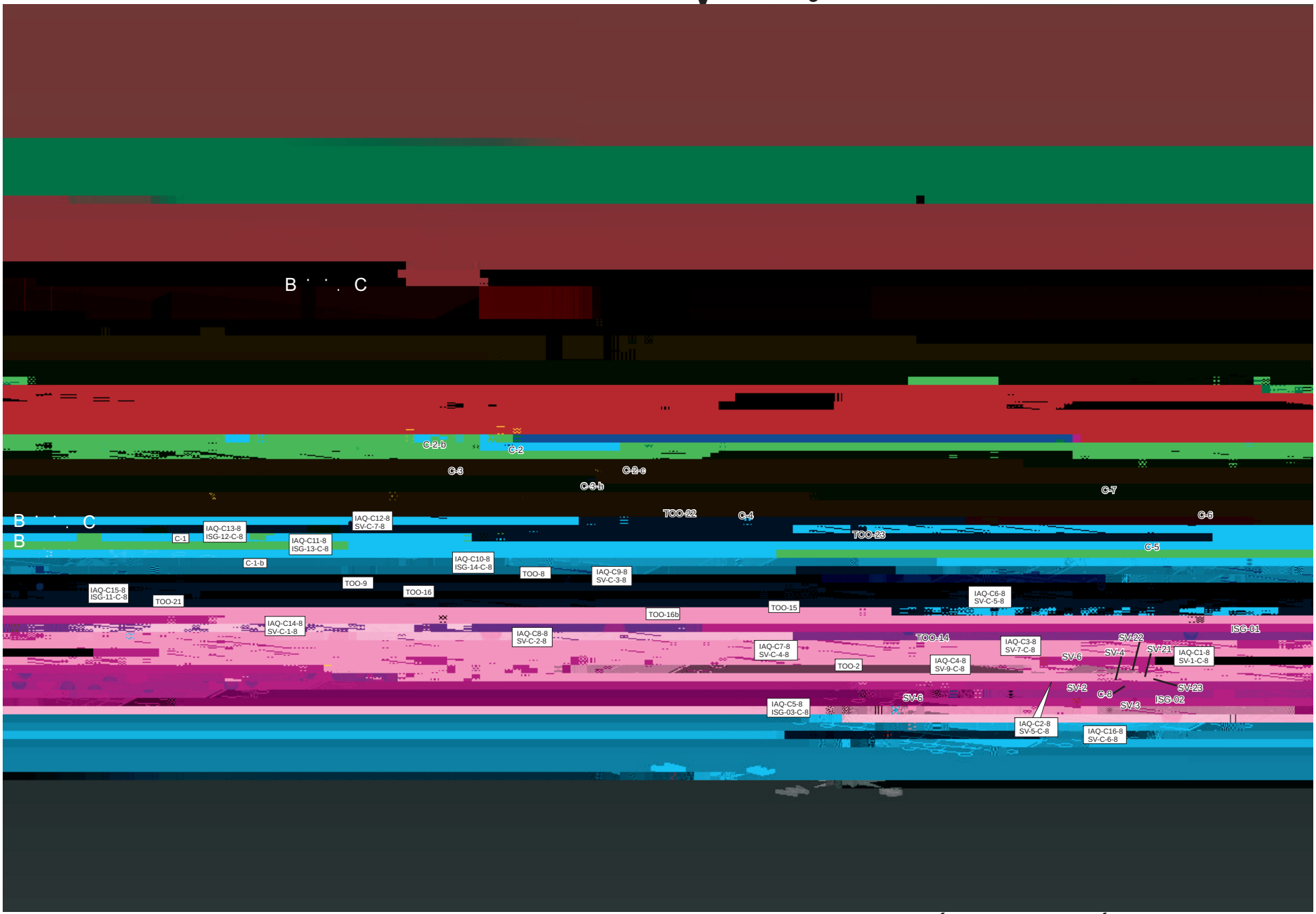
Based on discussions with Lockheed Martin's oversite contractor, locations for collection of IAQ samples were identified. These locations were co-located with VMP locations proposed for sampling to evaluate potential relationships between sub-slab and IAQ results. IAQ sample locations were also selected to further evaluate areas where elevated results and chemical markers of vapor intrusion (i.e. cis-1,2-dichloroethene, trans-1,2-dichlo

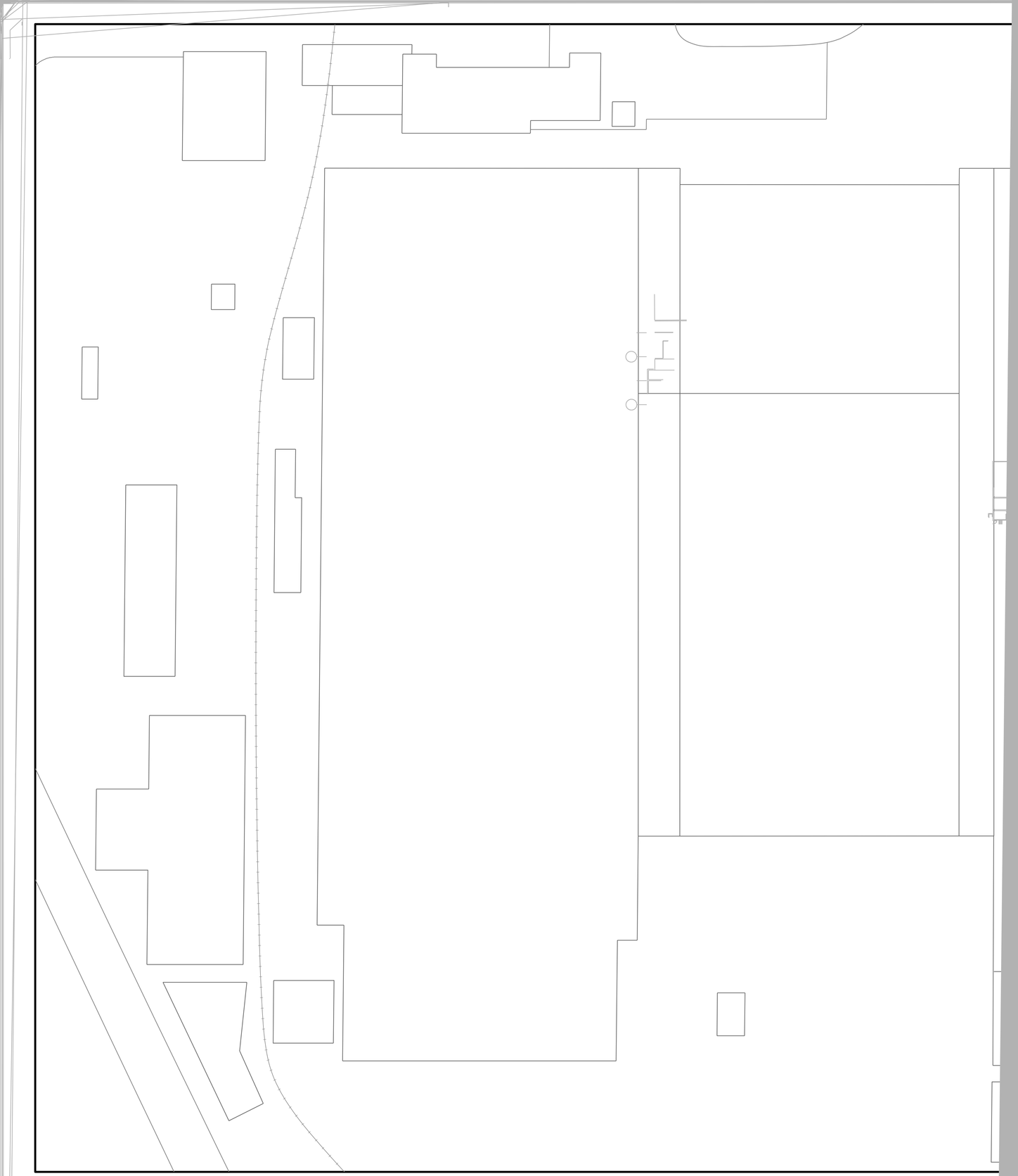
Figure 1-1
Indoor Air and Sub-Slab Vapor Monitoring Locations
for Building A Round 8 February 2010

1-2

-

2010


B C
C-2-b
C-2
C-3
C-2-c
C-3-b
C-7
B C
B
C-1
IAQ-C13-8
ISG-12-C-8
IAQ-C12-8
SV-C-7-8
IAQ-C11-8
ISG-13-C-8
TOO-22
C-4
C-6
TOO-23
C-5
C-1-b
IAQ-C10-8
ISG-14-C-8
TOO-8
IAQ-C9-8
SV-C-3-8
IAQ-C15-8
ISG-11-C-8
TOO-9
TOO-16
TOO-21
IAQ-C6-8
SV-C-5-8
TOO-15
TOO-16b
IAQ-C14-8
SV-C-1-8
IAQ-C8-8
SV-C-2-8
ISG-01
TOO-14
IAQ-C3-8
SV-7-C-8
SV-22
SV-4
SV-21
IAQ-C1-8
SV-1-C-8
IAQ-C7-8
SV-C-4-8
SV-6
IAQ-C4-8
SV-9-C-8
TOO-2
SV-2
SV-23
C-8
SV-6
ISG-02
SV-3
IAQ-C5-8
ISG-03-C-8
IAQ-C2-8
SV-5-C-8
IAQ-C16-8
SV-C-6-8



Section 2
References

1. Tetra Tech, Inc., 2006. Indoor Air Quality Assessment Work Plan for Buildings A, B, C, and VLS, Lockheed Martin Middle River Complex, November, 2006.

2. Tetra Tech, Inc., 2008. Phase II Investigation Work Plan Block I Lockheed Martin Middle River Complex, August, 2008.

3. Tetra Tech, Inc., 2009. Phase II Block I Site Investigation Report Lockheed Martin Middle River Complex, July, 2009.