

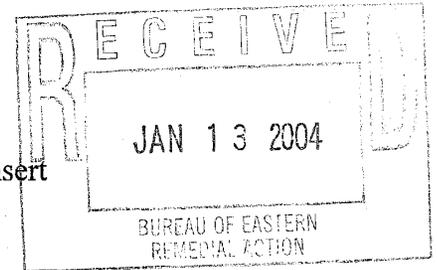


DEPARTMENT OF THE AIR FORCE
AIR FORCE REAL PROPERTY AGENCY

MEMORANDUM FOR SEE DISTRIBUTION

JAN 08 2004

FROM: AFRPA/DA - Griffiss
153 Brooks Road
Rome, NY 13441-4105



SUBJECT: NYSDEC Spill Number: 9707954
Apron 1 Bioventing Final Work Plan Including Phase II Insert
Project Number: JREZ 2000-2007

1. Submitted for your reference, the enclosed subject information identifies work elements that will encompass contractor performance for the Phase II portion of the previously approved and currently installed Apron 1 bioventing systems at the former Griffiss AFB, and should be inserted (see below) in the draft work plan dated September 2002. Remediation reports for the two new installation sites (LCP-6 and OWS 5730) associated with Phase II have been recently approved for the expansion of the Apron 1 bioventing remediation effort.

- Instructions for Inserting Subject Information:

- Insert the enclosed Apron 1 Work Plan Final plus Phase II cover page, spine and title page dated December 2003 in place of the existing pages dated September 2002.
- Replace Table of Contents pages iii and iv with the revised pages which including SECTION 6 APRON 1 BIOVENTING SYSTEM INSTALLATION PHASE II and SECTION 7 REFERENCES,
- Replace SECTION 6 REFERENCES with SECTION 6 APRON 1 BIOVENTING SYSTEM INSTALLATION PHASE II.
- Add SECTION 7 REFERENCES

2. Questions that you may have pertaining to the information provided may be directed to Mark Rabe of my environmental staff at (315) 330-2275.

MICHAEL F. MCDERMOTT
BRAC Environmental Coordinator

Enc.
Apron 1 Bioventing Final Work Plan
Including Phase II Insert

File on eDOCs?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
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Site #	633006	
County	Oneida	
Town	Rome	
Foailable	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Please Write The eDOC File		
Name Description	Apron 1 w/	

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Attn: Mark Rabe (4 copies)

**APRON 1
ENVIRONMENTAL CLEANUP
WORK PLAN
PROJECT NO. JREZ 2000-7007
GRIFFISS AIR FORCE BASE, NEW YORK**

**CONTRACT: F41624-01-D-8544
DELIVERY ORDER: 0002
CDRL #A005, A009, A010**

PREPARED FOR:



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DECEMBER 2003

**APRON 1
ENVIRONMENTAL CLEANUP
WORKPLAN
PROJECT NO. JREZ 2000-7007
GRIFFISS AIR FORCE BASE, NEW YORK**

**CONTRACT: F41624-01-D-8544
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REVIEWED AND APPROVED BY:

Project Manager:	<u>John Lanier <i>JL</i></u>	<u>12/30/03</u> Date
Technical Manager:	<u>Boss Miller <i>BM</i></u>	<u>12/30/03</u> Date

**TABLE OF CONTENTS
(CONTINUED)**

	<u>PAGE</u>
4.10.3 Control Procedures and Protective Measures.....	4-7
4.10.4 Regulatory and Base Spill Response Plans	4-9
4.11 AIR MODELING AND MONITORING PLAN	4-9
4.11.1 Air Contaminants of Concern.....	4-9
4.11.2 Real Time Monitoring	4-9
4.11.3 Community Air Monitoring Plan	4-9
4.12 DEMOBILIZATION AND CONSTRUCTION CERTIFICATION PLAN... 4-9	
4.12.1 Method for Certifying Attainment of Project Goals.....	4-9
4.12.2 Demobilization	4-9
4.12.3 Construction Certification Report	4-10
4.13 STANDARD OPERATING PROCEDURES FOR HAZARDOUS MATERIAL	4-10
4.14 STANDARD OPERATING PROCEDURES FOR HAZARDOUS WASTE	4-10
SECTION 5 FIELD SAMPLING PLAN.....	5-1
5.1 SUBSURFACE SOIL SAMPLING	5-1
5.2 SOIL GAS SAMPLING	5-1
5.3 AIR MONITORING.....	5-2
5.4 SAMPLE HANDLING	5-2
5.5 DATA VALIDATION/DATA MANAGEMENT	5-2
SECTION 6 APRON 1 BIOVENTING SYSTEM INSTALLATION - PHASE II.....	6-1
6.1 APRON 1 BIOVENTING SYSTEM INSTALLATION	6-1
6.2 LCP E-6 DICHLOROBENZENE SOURCE REMOVAL.....	6-1
6.3 OWS 5730 SAMPLING AND INFORMAL TECHNICAL INFORMATIONAL REPORT.....	6-2
6.4 APRON 1 OPERATION, MAINTENANCE AND MONITORING (O &M) PLAN	6-2

**TABLE OF CONTENTS
(CONTINUED)**

PAGE

SECTION 7 REFERENCES..... 7-1

LIST OF FIGURES

Figure 1.1 Regional Location Map 1-6
Figure 4.1 Construction Schedule..... 4-11
Figure 6-1 – Site Plan and Piping Layout..... 6-3
Figure 6-2 – Site Plan and Piping Layout Apron1 Phase II..... 6-4

LIST OF TABLES

Table 2.1 Maximum Contaminant Levels for Each Vent Well Location 2-5
Table 5.1 Estimated Number of Environmental and QA/QC Samples 5-3

LIST OF APPENDICES

APPENDIX A BASIS OF DESIGN CALCULATIONS

APPENDIX B DESIGN DRAWINGS

APPENDIX C CONSTRUCTION QUALITY PLAN

APPENDIX D SAMPLING AND ANALYSIS PLAN

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SECTION 6

APRON 1 BIOVENTING SYSTEM INSTALLATION - PHASE II

Description: Installation of three additional pressure injection wells (PIWs) as part of the existing bioventing system for Apron 1 at the former Griffiss Air Force Base, Rome NY.

AFCEE Contract No. F41624-01-D-8544, Task Order 0002

A summary of the bioventing system installation at Apron 1 is provided below and includes a discussion of the history and excavation activities at Lateral Control Pit (LCP) E-6 as well as discussions on additional sampling conducted at the Oil Water Separator (OWS) 5730 site.

6.1 APRON 1 BIOVENTING SYSTEM INSTALLATION

Parsons installed a bioventing system at Apron 1 in the summer of 2002, which included 20 pressure injection wells with 16 associated vapor monitoring points and two blower units as shown on the attached as built drawing C-1, Site Plan and Piping Layout (Parsons; February 2003). The bioventing system installation included capped pipe connections for the future installation of pressure injection wells (PIW-3, PIW-10, PIW-15) at LCP E-6 and the OWS 5730 locations. Pressure injection wells at these locations were not included in the original system installation based on reported concerns of dichlorobenzene at LCP E-6 as well as additional sampling requirements and preparation of an Informal Technical Informational Report (FPM; Draft February 2003) for the OWS 5730 location.

6.2 LCP E-6 DICHLOROBENZENE SOURCE REMOVAL

A Chlorobenzene Summary Report (FPM; Draft Report, September 2002) which summarized the results of previous investigations conducted at Apron 1 and LCP E-6 concluded that the only exceedances to New York State Department of Environmental Conservation (NYSDEC) Technical Administration Guidance Memorandum (TAGM) 4046 cleanup criteria for both petroleum and dichlorobenzene contaminants had occurred at the LCP E-6 site.

In May 2003, Parsons excavated and disposed of, off-site, approximately 530 tons of contaminated soil from the LCP E-6 site. The analytical results of the confirmatory soil samples collected from the sidewalls and bottom of the excavation, indicated that there were no exceedances to NYSDEC TAGM 4046 dichlorobenzene cleanup criteria as shown in Table 2.1 of the closure report (Parsons; Decision Document/Closure Report LCP E-6 (Draft Final) August 19 2003). The excavation was backfilled with clean soil and restored. The installation of an additional pressure injection well (PIW-10) is proposed to remediate remaining petroleum contamination surrounding the LCP E-6 excavation.

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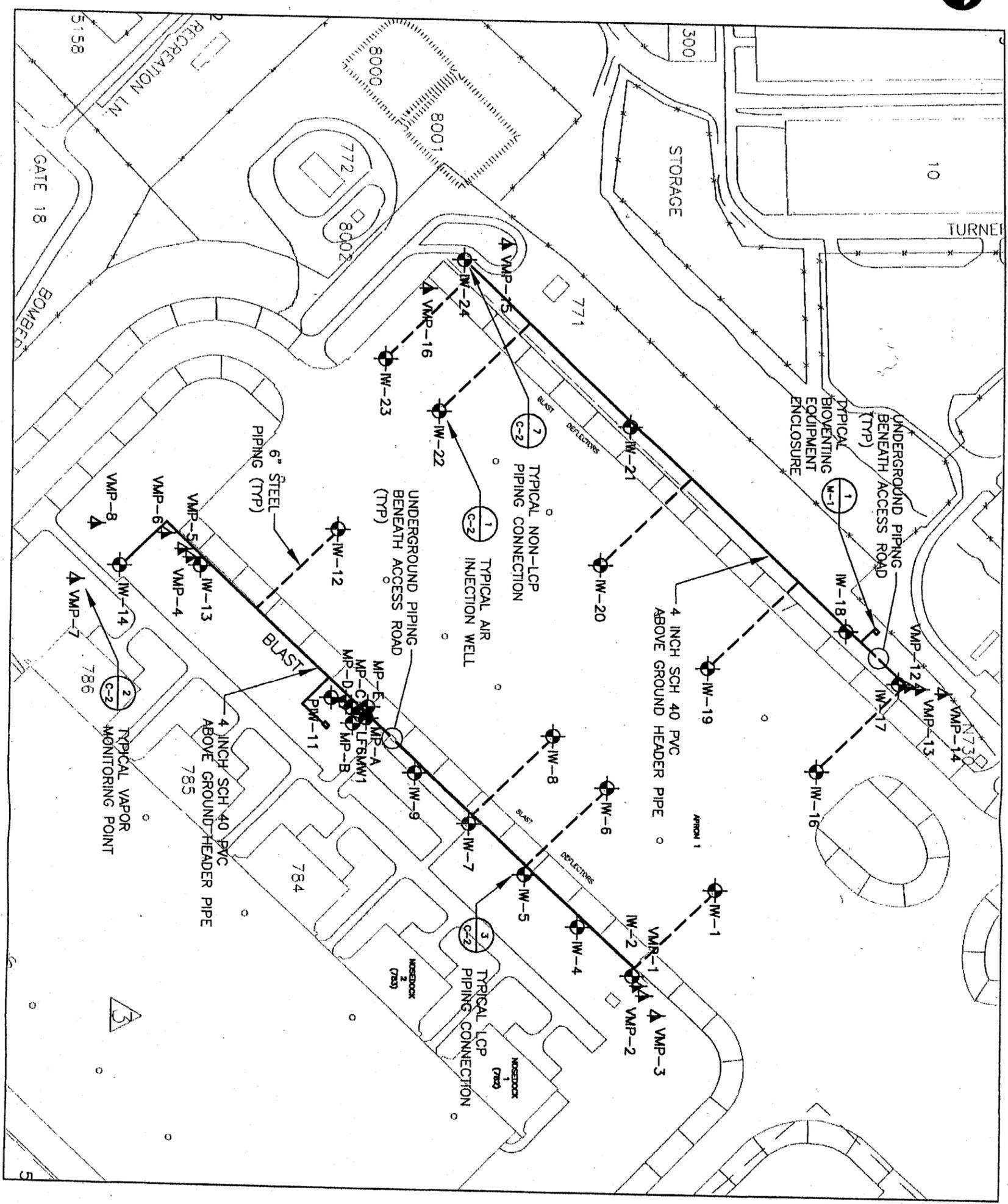
6.3 OWS 5730 SAMPLING AND INFORMAL TECHNICAL INFORMATIONAL REPORT

During the summer of 2001 PEER removed OWS 5730 and associated underground structures situated northwest of Building 782 (Nosedock 1). Underground utilities prevented the complete removal of soil contamination and the excavation was backfilled and restored. During the summer of 2002, FPM conducted a sampling event to further characterize the remaining contamination. The results of the sampling were compared to the NYSDEC TAGM criteria and applicable USEPA guidelines and indicated the presence of petroleum contamination above the TAGM cleanup objectives, no CERCLA contaminants of concern were detected in the vicinity of the former OWS 5730.

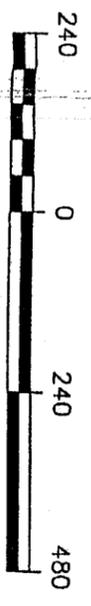
Based on the conclusions and recommendations in Section 3.2.2 of the Informal Technical Informational Report (FPM; Draft February 2003), Parsons proposes to extend the existing Apron 1 bioventing system by installing two additional pressure injection wells (PIW-3 and PIW-15) in the vicinity of former OWS 5730.

6.4 APRON 1 OPERATION, MAINTENANCE AND MONITORING (O &M) PLAN

An addendum to the Apron 1 Operation, Maintenance and Monitoring (O &M) Plan for bioventing Systems at Apron 1 (Parsons; June, 2003) will be issued to include the additional pressure injections wells and the attached Drawing C-1, Site Plan and Piping Layout Remedial Action Apron 1 & Nosedocks 1 & 2 (Parsons; October 2003) showing the location and identification of the additional pressure injection wells.



- LEGEND:**
- ▲ VAPOR MONITORING POINT
 - ◊ WELL
 - ABOVE GROUND PIPING
 - - - UNDERGROUND PIPING



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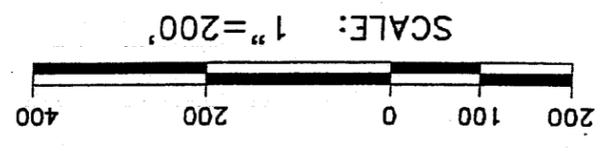
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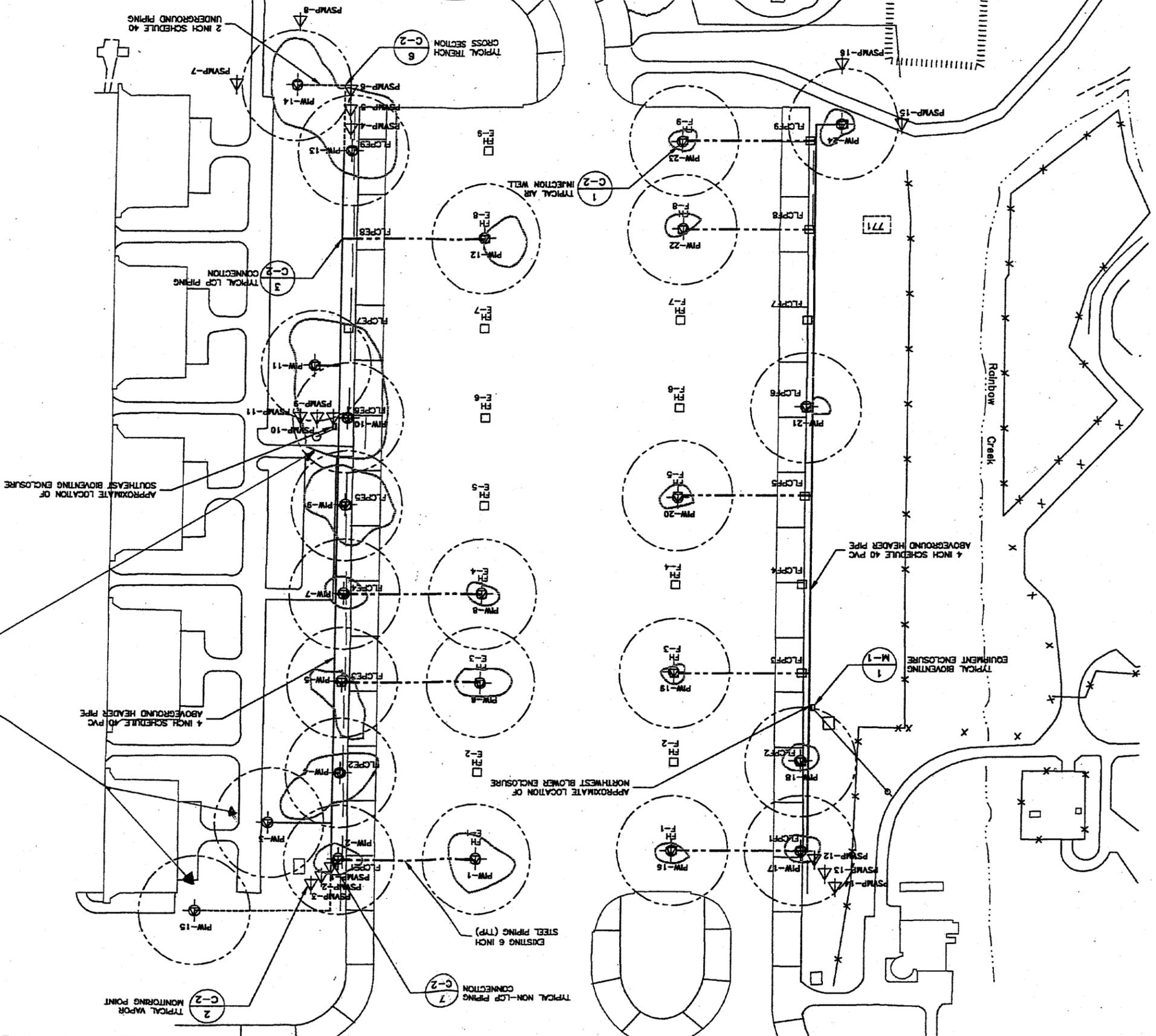
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 SITE PLAN AND PIPING LAYOUT
 REMEDIAL ACTION
 APRON 1 & NOSEDOCKS 1 & 2

DRAWING NO. C-1
 REV. A



- LEGEND**
- PMW-12 PROPOSED AIR INJECTION WELL LOCATION
 - PSVMP-3 PROPOSED VAPOR MONITORING POINT LOCATION
 - ANTICIPATED RADIUS OF INFLUENCE
 - EXISTING UNDERGROUND PIPING
 - - - PROPOSED UNDERGROUND PIPING
 - FORMER HYDRANT LOCATION
 - FORMER LATERAL CONTROL POINT LOCATION
 - ESTIMATED AREA OF SOIL CONTAMINATION

NOTE:
 Proposed Apron 1 Phase II
 pressure injection wells PMW-3
 and PMW-15 at OWS 5730
 and PMW-10 at LCP E-6



SECTION 7

REFERENCES

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