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SMO-012-10
August 18, 2010

Mr. Paul C. Lucas, Deputy Project Director
U. S. Department of Energy
Environmental Management Consolidated Business Center
Miamisburg Closure Project
955 Mound Road
Miamisburg, OH 45342

Subject: **Contract No. DE-AC24-03OH20152**: Deliverable #24, Draft Final Site-Wide ROD; Post Closure Support of Regulatory Documents, Parcels 6, 7, & 8 Environmental Summary

Dear Mr. Lucas:

CH2M HILL Mound, Inc. acknowledges authorization from your office to release the following document:

- Parcels 6, 7, and 8 Environmental Summary

If you have any questions regarding the attached document, or if additional support is needed, please contact Shari Raisor at 513-608-6091.

Sincerely,

Virginia L. Matis
Contract Closeout Manger
CH2M HILL Mound, Inc.

Attachments

cc: Joe Crombie, ODH, (1) w/attachments
Tim Fischer, USEPA, (2) w/attachments
Paul Lucas, DOE/EMCBC, (2) w/attachments
Joyce Massie, DOE/LM, (2) w/attachments
Brian Nickel, OEPA, (2) w/attachments
Don Pfister, DOE/EMCBC, (1) w/attachments
Randy Tormey, DOE/EMCBC, (1) w/attachments
Timothy Walker, ODH, (1) w/attachments
Public Reading Room, (1) w/attachments
DCC, (1) w/attachments
File: CH2M HILL, (1) w/attachments

Parcels 6, 7, and 8

Environmental Summary

CERCLA 120(h) SUMMARY
NOTICE OF HAZARDOUS SUBSTANCES

Final
August 2010

Miamisburg Closure Project
Miamisburg, Ohio

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Acronyms

ACM	Asbestos Containing Material
BDP	Building Data Package
BVA	Buried Valley Aquifer
CERCLA	Comprehensive Environmental Response, Compensation & Liability Act
COPC	Constituent of Potential Concern
DCE	1,2 cis-dichloroethene
D&D	Decontamination & Decommissioning
EA	Environmental Assessment
FONSI	Finding of No Significant Impact
HI	Hazard Index
HQ	Hazard Quotient
MMCIC	Miamisburg Mound Community Improvement Corporation
NCP	National Contingency Plan
NFA	No Further Assessment
NWP	Nationwide Permit
O&M	Operations & Maintenance
ODH	Ohio Department of Health
OEPA	Ohio Environmental Protection Agency
OU	Operable Unit
OSC	On-Scene Coordinator
PCB	polychlorinated biphenyl
PCN	pre-construction notification
PRS	Potential Release Site
RCRA	Resource Conservation and Recovery Act
ROD	Record of Decision
RRE	Residual Risk Evaluation
RREM	Residual Risk Evaluation Methodology
TCE	trichloroethene(ethylene)
USACE	United States Army Corps of Engineers
USDOE	United States Department of Energy
USEPA	United States Environmental Protection Agency
WQC	Water Quality Certification

1.0 PURPOSE

The information contained in this notice is required under the authority of regulations promulgated under section 120 (h) of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). This summary is intended to support a transfer by deed to new ownership for economic development by documenting that the U.S. Department of Energy's (US DOE) Mound Plant has met the requirements of CERCLA 120 (h) for Parcels 6, 7, and 8. A copy shall be provided to all future owners.

2.0 PROPERTY DESCRIPTION

2.1 Description of Property Suitable for Transfer

This Environmental Summary addresses Parcels 6, 7, and 8, which are located on the Mound Site as shown in Figure 1. The legal descriptions for Parcels 6, 7, and 8, as recorded in the Parcels 6, 7, and 8 Record of Decision (Reference 1) are included as Appendix C of this Environmental Summary.

2.2 Regional Context of the Mound Plant and Transferred Property

The Mound Plant is in Montgomery County within the City of Miamisburg, Ohio as shown in Figure 2. At one time, the Mound Plant occupied approximately 306 acres. Prior to the transfer of Parcel 4, Benner Road formed the southern boundary of the site. The Norfolk Southern Railroad roughly parallels the western boundary at a distance of 50-200 feet. At one time, the Mound Plant consisted of approximately 130 buildings with a total of 1.4 million square feet of floor space. Since 1999, approximately 128 acres have been transferred to MMCIC. Parcels 6, 7, and 8 occupy approximately 104 of the remaining 127 acres.

2.3 Historical Uses of Parcels 6, 7, and 8

Parcels 6, 7, and 8 comprise the majority of the operational area of the Mound Plant (Figure 1). There are 10 buildings in Parcels 6, 7, and 8. There are 332 Potential Release Sites (PRSs) in the Parcels. All buildings and PRSs in Parcels 6, 7, and 8 were evaluated for protectiveness or remediated to be protective. Any residual risks associated with remaining contamination in Parcels 6, 7, and 8 have been evaluated and are presented in the Parcels 6, 7, and 8 Residual Risk Evaluation (RRE). Details of PRSs are presented in Appendix E.

Parcel 6 occupies approximately 14 acres. Three buildings (28, 45, and OSE) are located on the property. Eighteen sites of former buildings are included in the parcel. Details of current and historic buildings are provided in Appendix D. Ceramic development and production, health physics calibration, weld development, various administrative functions (print shop, personnel, medical, records storage), and other support services (garage, maintenance shops, security operations) were among the activities conducted in these buildings.

Parcel 7 occupies approximately 42 acres. Four buildings (2, 61, 63, 126) remain on the property. Thirty-seven former buildings once stood on the parcel. Details of current and historic buildings are provided in Appendix D. Radioisotope Thermoelectric Generator (RTG) assembly, nuclear processing, administrative support (purchasing, office), and other support services (fire house, maintenance, and storage) were among the activities conducted in these buildings.

Parcel 8 occupies approximately 45 acres. Three buildings (COS, OSW, T) remain on the property. Eighty-nine former buildings once stood on the parcel. Details of current and historic buildings are provided in Appendix D. Tritium development and operations, explosives processing and production, waste water treatment, radioactive liquid waste processing, power generation, analytical services, environmental laboratory, waste management, and other support functions (office, weather monitoring, maintenance, guard posts, water production) were among the activities conducted in these buildings.

3.0 ENVIRONMENTAL FINDINGS

3.1 Methodology

In accordance with Section 120 (h)(3) of CERCLA, to the extent that information is available based on a complete search of DOE files, the following shall be placed in deeds: (1) a notice of the type and quantity of hazardous substances stored, disposed of, or released; (2) a notice of the time at which such storage, disposal, or release took place; and (3) a description of any remedial action taken. Information sources reviewed to obtain the information include:

- federal Government records,
- recorded chain of title documents,
- reasonably obtainable aerial photographs,
- visual inspection of the property and adjacent properties,
- reasonably obtainable records of releases on adjacent properties,
- interviews with current or former employees, and
- sampling, if appropriate under the circumstances.

Parcels 6, 7, and 8 include 332 Potential Release Sites (PRSs). These PRSs were identified on the basis of potential radiological and/or chemical (non-radioactive) contamination, knowledge of historical land use, or on actual sample data. The locations of the PRSs in Parcels 6, 7, and 8 are shown in Figure 3 and detailed in Appendix E. Before transfer of a parcel can be completed, all buildings and PRSs must be evaluated for protectiveness or remediated to a protective level. Residual risks associated with remaining contamination in Parcels 6, 7, and 8 have been evaluated.

A Core Team with representatives from the DOE, US Environmental Protection Agency (USEPA), and Ohio Environmental Protection Agency (OEPA) performs a joint agency

evaluation of each PRS. The Core Team uses process knowledge, site visits, and existing data to determine whether any action is warranted concerning the PRS and recommends the appropriate response(s).

Information in the following documents was used to support this Environmental Summary.

3.1.1 PRS and Building Documents for the PRSs and buildings located within Parcels 6, 7, and 8 (see Table 1). These PRSs were identified on the basis of potential radiological and/or chemical (non-radioactive) contamination using knowledge of historical land use or actual sample data. PRS and Building Data provide a summary of information sufficient for the Core Team to make recommendations or change the status of the PRS or building. Action Memoranda provide a plan for addressing removal actions. On-Scene Coordinator (OSC) Reports document completion of the removal action. The locations of the PRSs and buildings in Parcels 6, 7, and 8 are shown on Figure 3. Table 2 lists the Core Team conclusions for these PRSs. Table 3 lists the Core Team conclusions for these buildings.

3.1.2 Residual Risk Evaluation (RRE), Parcels 6, 7, and 8 (Reference 2). The RRE provides the evaluation of human health risks associated with any residual contamination that may remain in the parcel after all remedies within a parcel have been addressed. The evaluation, used in conjunction with the Proposed Plan, ensures that future users of the land will not be exposed to contamination levels that would pose unacceptable health risks.

3.1.3 Ecological Scoping Report, Parcels 6, 7, and 8 (Reference 3). This report was prepared in accordance with an OEPA procedure to determine if an ecological assessment is warranted at a site. Based on the site visit that is part of the OEPA procedure, the fact that no threatened or endangered species were observed within Parcels 6, 7, and 8, and that no sensitive environments or ecologically important resources were identified within Parcels 6, 7, and 8, the future reuse of Parcels 6, 7, and 8 as an industrial park, and the information developed during several characterization investigations and removal actions performed in the Parcels 6, 7, and 8 area, the report concluded that a more detailed assessment of the ecological risk is not warranted.

3.1.4 Proposed Plan for Parcels 6, 7, and 8 (Reference 4). The Proposed Plan identifies for the public the preferred option for addressing residual contamination at the Mound Site, Parcels 6, 7, and 8, by briefly summarizing the alternatives studied and highlighting the key factors that led to identifying the preferred alternative.

3.1.5 Record of Decision (ROD) for Parcels 6, 7, and 8 (Reference 1). The ROD documents the remedial action plan for the parcel and serves the following three functions: (1) certifies the remedy selection process was carried out in accordance with CERCLA, (2) describes the technical parameters of the remedy by specifying the treatment, engineering, and institutional components as well as cleanup levels, and (3) provides the public with a consolidated summary of information about the parcel and the chosen remedy, including the rationale behind the selection of the remedy for Parcels 6,7 and 8 described in Section 4.0 of this document.

3.2 Building Analysis Summary

There are 10 DOE-owned buildings within Parcels 6, 7, and 8 (see Figure 3). These buildings were evaluated by the Core Team and determined to warrant No Further Assessment (NFA). The information in the following sections is summarized in Table 11 Appendix B.

3.2.1 Asbestos

There are asbestos containing materials in some of the buildings in Parcels 6, 7, and 8. There are no areas requiring asbestos abatement prior to transfer. Appropriate management practices may be required in the future for the buildings to remain protective. The situation in Parcels 6, 7, and 8 buildings with respect to asbestos can be summarized as follows:
Present, no remediation needed – Building 2, 28, 45, 63, OSW, T
None identified – Building COS
Unlikely to be present – Building 61, 126, OSE
For more information consult the appropriate Building Data Package.

3.2.2 Lead

There is lead based paint in some of the buildings in Parcels 6, 7, and 8. There are no areas in any of the buildings requiring lead abatement prior to transfer. Appropriate management practices may be required in the future for the buildings to remain protective. The situation in Parcels 6, 7, and 8 buildings with respect to lead based paint can be summarized as follows:
Assumed Present, no remediation needed – Building 28, 45, T
None identified - Building 2, 61, OSW
Unlikely to be present – Building 63, 126, COS, OSE
For more information consult the specific Building Data Package.

3.2.3 Radon

Radon studies are presented in a 1989-90 Mound Indoor Radon study for buildings. There are no areas in any of the buildings requiring radon abatement prior to transfer.

3.2.4 Radiological Surveys

The final radiological surveys for the buildings remaining in Parcels 6, 7, and 8 met all surface contamination guidelines. This information is available in the building data packages (BDPs). For T Building, 98.4% of the building surfaces met free release surface contamination guidelines. The remaining 1.6% of the building met the dose based criteria of 15 mrem per year under an industrial use scenario. There are two areas in T Building that carry restrictions on the disturbance of the floor and there are restrictions on the disposal of debris generated from T Building as described in Section 4.0 of this document.

3.2.5 PCBs

There are no areas within Parcels 6, 7, and 8 requiring polychlorinated biphenyl (PCB) cleanup. There may be PCB containing ballasts in the fluorescent lights in some of the buildings in Parcels 6, 7, and 8. Appropriate management practices may be required in the future for the buildings to remain protective. However, the situation in Parcels 6, 7, and 8 buildings with respect to PCBs can be summarized as follows:
May be present in fluorescent lamp ballasts – Building 2, 28,45,126, COS, OSW
None identified - Building 28, 61, 63, OSE, T
For more information consult the specific Building Data Package.

3.3 PRS Summary

PRSs at Mound were identified based on either knowledge of historical land use that was considered potentially detrimental, or an actual sampling result showing elevated concentrations of contaminants. The locations of the PRSs in Parcels 6, 7, and 8 are shown in Figure 3.

Appendix E contains a brief summary of the history of the PRSs in Parcels 6, 7, and 8 and their contaminants. For a more detailed description of these PRSs, refer to the PRS data packages (Tables 1 and 2).

The USDOE, USEPA, and OEPA have jointly decided that no additional remedial action for the PRSs in Parcels 6, 7, and 8 is necessary with the placement of Institutional Controls in the form of deed restrictions on future land use and Monitored Natural Attenuation for Parcels 6, 7, and 8. As part of the remedy, DOE will continue to monitor groundwater in Parcels 6, 7, and 8 to verify that the concentration of TCE is decreasing due to natural attenuation and is not impacting the Buried Valley Aquifer (BVA).

3.4 RRE Summary

Pursuant to the Residual Risk Evaluation Methodology (RREM) (Reference 5), risks are quantified for both carcinogenic (cancer-causing) and non-carcinogenic (non-cancer-causing) contaminants. All analytes (carcinogenic and non-carcinogenic) detected at least once in soil in Parcels 6, 7, and 8 were identified as constituents of potential concern (COPCs) and are listed in Appendix F. The maximum concentration of each COPC for soil was compared to and screened against criteria established in the RREM and presented in the Parcels 6, 7, and 8 Residual Risk Evaluation (Reference 2). COPC tables for soil are presented in Tables 5 through 10 of Appendix B. COPCs that were carried through the RRE process are identified in the tables.

The risk associated with the intake of a known or suspected carcinogen is reported in

terms of the incremental lifetime cancer risk presented by that COPC, as estimated using the appropriate slope factor and the amount of material available for uptake. The acceptable risk range as defined by CERCLA and the National Contingency Plan (NCP) is 10^{-4} to 10^{-6} (one human in ten-thousand to one human in one-million incremental cancer incidence). Potential human health hazards from exposure to non-carcinogenic contaminants are evaluated by using a Hazard Quotient (HQ). The HQ is determined by the ratio of the intake of a COPC to a reference dose or concentration for the contaminant of concern that is believed to represent a no-observable effect level. The contaminant of concern-specific HQs are then summed to provide an overall Hazard Index (HI). USEPA guidance sets a limit of 1.0 for the Comprehensive HI. The incremental carcinogenic risks and hazards associated with residual concentrations of COPCs in Parcels 6, 7, and 8 are also shown in Table 4 of Appendix B.

Evaluation of residual soil contaminants within Parcels 6, 7, and 8 has resulted in a determination that future users of the land will not be exposed to contaminant levels that would pose unacceptable risks as long as compliance with the deed restrictions described in the Parcels 6, 7, and 8 Record of Decision are maintained. The soils within Parcels 6, 7, and 8 have not been evaluated for any use other than onsite industrial use. Any offsite disposition of the Parcels 6, 7, and 8 soil without proper handling, sampling, and management could create an unacceptable risk to offsite receptors.

3.5 Other Factors Considered

DOE developed a generic checklist of the issues to be considered in evaluating property to be transferred. The checklist was modified from that used by the Department of Defense in releasing property for sale. The checklist includes environmental problems from Mound Site that are likely to concern a potential purchaser as well as items relating to the operational concerns from ongoing and future remedial actions. Results of only those factors which affect Parcels 6, 7, and 8 are presented as follows:

3.5.1 Cultural Resources

Seventeen buildings in Parcels 6, 7, and 8 (A, B, C, E, G, H, I, M, P, R, T, W, GH, HH, PH, SD, and WD) were determined to be historically significant. All but T Building were demolished. This impact was mitigated by development of building specific documentation packages submitted to the National Archives and the Ohio Historic Preservation Office.

3.5.2 Monitoring Equipment

DOE operates air monitoring stations within Parcels 6, 7, and 8. These are expected to operate for at least one year after the Parcels 6, 7, and 8 ROD is signed. There are also several monitoring wells within Parcels 6, 7, and 8. Since continued groundwater monitoring is part of the selected remedy for Parcels 6, 7, and 8, DOE will continue to have access to these locations via easements.

3.5.3 National Environmental Policy Act

Parcels 6, 7, and 8 lie within the boundaries of the Mound Site described in the Environmental Assessment (EA) for Commercialization of the Mound Plant (Reference 6) and the resulting Finding of No Significant Impact (FONSI) issued on October 27, 1994 (Reference 7) as described in Section 4.0 of this document. The land use described in the EA is consistent with the institutional controls in the ROD for Parcels 6, 7, and 8.

3.5.4 Wetlands

Three characteristics must be present for an area to be classified as a jurisdictional wetland: (1) hydrophytic vegetation, (2) hydric soils, and (3) wetland hydrology. There are no designated wetlands in Parcel 6. There are two designated wetlands (0.04 acre total) in Parcel 7. There are six designated wetlands (0.107 acre total) in Parcel 8. (Reference 8).

Pursuant to 10 CFR Part 1022.5(d), when DOE property is proposed for disposal to non-Federal public or private parties, DOE must identify those uses that are restricted under Federal, state, or local wetlands regulations. Accordingly, the future owner of the site would be made aware of the following regulations governing activities in or near the wetlands.

According to the federal Clean Water Act, anyone who wishes to discharge dredged or fill material into the waters of the U.S., regardless of whether on private or public property, must obtain a Section 404 permit from the U.S. Army Corps of Engineers (USACE) and a Section 401 Water Quality Certification (WQC) from the state.

The USACE governs the discharges of dredged or fill material into headwaters and isolated waters of the United States with activity-specific Nationwide Permits (NWPs). The terms and conditions of the NWPs ensure that the activities result in minimal adverse effects on the aquatic environment. The NWPs require notification to the USACE district engineer for activities that result in the loss of greater than 0.1 acre of waters of the United States. Regional conditions may be added to the NWPs by division engineers to lower notification thresholds.

OEPA has pre-granted Section 401 Water Quality Certifications to 404 permits for certain types of projects that are similar in nature and cause minimal degradation to waters of the state. These permits substantially expedite the permitting process. To determine if a project qualifies for Nationwide Permits coverage, or requires an individual section 401 WQC from OEPA, applicants should contact the USACE first to discuss the project.

Existing wetland uses, as defined in rule 3745-1-53 of the Administrative Code, shall be maintained and protected in accordance with rules 3745-1-50 to 3745-1-54 of the Administrative Code [3745-1-05(C)(1)].

3.5.5 Clean Air Act

The roads and parking lots in Parcels 6, 7, and 8 are included under OEPA permit F001.

4.0 FINDINGS OF SUITABILITY TO TRANSFER

In accordance with the provisions of CERCLA Section 120 (h), contaminated property can only be transferred if one of the following applies:

(1) a decision has been made that no remedial action is necessary ,

(2) all remedial action necessary to protect human health and the environment with respect to any such substance remaining on the property has been taken before the date of transfer and any such remedy has been demonstrated to the Administrator to be operating properly and successfully, or

(3) Early Transfer Authority, which allows for transfer before all necessary action is complete, has been granted by USEPA with concurrence from the Governor of the State of Ohio pursuant to CERCLA Section 120(h)(3)(C).

The future industrial use of the Mound Site has been determined based upon agreement among USDOE, USEPA, and OEPA, and interested stakeholders. This land use is reflected in the MMCIC Mound Comprehensive Reuse Plan and is currently codified in the City of Miamisburg Zoning Ordinance for industrial/commercial use.

A joint agency decision among the USDOE, USEPA, and OEPA has been made that a remedial action has been taken that protects human health and the environment. EPA deems this condition to be satisfied if the institutional controls are implemented and operating successfully. Institutional controls in the form of deed restrictions on future land use will be placed on Parcels 6, 7, and 8 upon transfer as part of the remedy. The objective of these institutional controls is to prevent an unacceptable risk to human health and the environment by restricting the use of Parcels 6, 7, and 8, including Parcels 6, 7, and 8 soils and groundwater, to that which is consistent with assumptions in the Parcels 6, 7, and 8 RRE. DOE or its successors or assigns has the responsibility to implement, report on, monitor, maintain, and enforce these institutional controls both before and after the transfer. The following property deed restrictions and requirements will be imposed on the property to maintain protection of human health and the environment in the future:

- Maintenance of industrial or commercial land use
- Prohibition against residential land use
- Prohibition against the use of groundwater without prior approval from the USEPA and OEPA
- Site access for federal and state agencies for the purpose of sampling and monitoring
- Prohibition against the removal of soil from within the site boundary to offsite locations without prior approval from USEPA and OEPA.
- Prohibition against the removal of concrete floor material in specified rooms of T Building to offsite locations without prior approval from USEPA and OEPA.
- Prohibition against the penetration of concrete floors in specified rooms of T Building locations without prior approval from USEPA and OEPA.

Monitoring and reporting of groundwater and seep water to ensure unacceptable levels of contamination do not migrate into drinking water sources in and around the site and to verify that the concentration of VOCs is decreasing due to natural attenuation. An annual review and report will be submitted to OEPA, Ohio Department of Health (ODH), and USEPA (pursuant to CERCLA).

The Monitored Natural Attenuation portion of the remedy is also considered to be operating properly and successfully. This judgement is based on: declining levels of VOCs observed; the lack of a source term; limited area affected; and the lack of VOC migration. In addition, the monitoring data continue to support the analysis originally presented in the Parcels 6, 7, and 8 Record of Decision that indicated Monitored Natural Attenuation is appropriate. That analysis is reproduced here:

According to the guidance Use of Monitored Natural Attenuation at Superfund, RCRA Corrective Action, and Underground Storage Tank Sites, April 1999, EPA/540/R-99/009, there are generally ten factors that should be considered to evaluate the appropriateness of a Monitored Natural Attenuation remedy. The factors, along with a brief explanation of how they relate to Parcels 6, 7, and 8, are presented below:

1. *Whether the contaminants present in soil or groundwater can be effectively remediated by natural attenuation processes*

The concentration of TCE in the groundwater is expected to decrease to a concentration less than the MCL through a naturally-occurring biodegradation process called reductive dehalogenation. In this process, chlorinated solvent compounds (such as TCE) gradually break down by having a halogen, in this case chlorine atoms, replaced with a hydrogen atom. This progression results in a successively lower number of halogens (chlorine atoms) attached to the compound structure, shown by:
Trichloroethene (TCE)→ Dichloroethene (DCE) →Vinyl Chloride→ Ethene + Cl^-
The assumption that this process is already taking place in the area is supported by the fact that dichloroethene (DCE) has been detected consistently along with the TCE.

2. *Whether or not the contaminant plume is stable and the potential for the environmental conditions that influence plume stability to change over time*

The wells in the Parcels 6, 7, and 8 area have been sampled over a period of several years. Sample results have consistently shown that the TCE contamination is limited to a small area near the location of wells 0315 and 0347.

3. *Whether human health, drinking water supplies, other groundwater, surface waters, ecosystems, sediments, air, or other environmental resources could be adversely impacted as a consequence of selecting MNA as the remediation option*

There is no indication that the BVA or other environmental resources in the area of Parcels 6, 7, and 8 will be adversely affected by selecting MNA as the remediation option for VOCs in Parcels 6, 7, and 8.

4. *Current and projected demand for the affected resource over the time period that the remedy will remain in effect*

The bedrock aquifer, where the TCE has been detected above MCLs, is not currently used as a groundwater resource for the Mound Site, nor is it anticipated to be used in the future. The City of Miamisburg municipal water supply supplies all potable water to the site. Finally, the selected remedy calls for a restriction to be placed on the deed that will prohibit the installation of wells in the Parcels 6, 7, and 8 area in the future without approval from USEPA and OEPA.

5. *Whether the contamination, either by itself or as an accumulation with other nearby sources (on-site or off-site), will exert a long-term detrimental impact on available water supplies or other environmental resources*

The BVA is designated as a sole source aquifer and serves as the primary potable water supply for the City of Miamisburg. Based upon years of groundwater data collected down gradient of wells 0315 and 0347, there is no indication that the BVA is threatened by the TCE contamination in the area. These down gradient locations will be monitored as part of the selected remedy to verify that the BVA remains unaffected.

6. *Whether the estimated timeframe of remediation is reasonable compared to timeframes required for other more active methods of remediation*

The fact that the concentrations are just slightly above the MCL of 5 ppb for TCE (maximum of 28 ppb) would suggest that the timeframe for remediation should be fairly short. These relatively low concentrations, along with the fact that the bedrock aquifer exhibits relatively low yield rates, make remediation of the bedrock by more active methods an impractical option at this time. If concentrations were to increase, more active treatment methods may be evaluated.

7. *The nature and distribution of sources of contamination and whether these sources have been, or can be, adequately controlled*

Each of the potential TCE sources have been addressed under the Mound 2000 process. The risk evaluation demonstrates the adequacy of the response.

8. *Whether the resulting transformation products present a greater risk, due to increased toxicity and/or mobility, than do the parent contaminants*

Although vinyl chloride, a breakdown product of TCE, generally presents a higher risk to human receptors than TCE and is more persistent in groundwater, it is not

anticipated that the original concentration of TCE (maximum 28 ppb) will support the production of high enough concentrations of vinyl chloride in the bedrock aquifer in Parcels 6, 7, and 8 to pose an unacceptable risk. In any event, there is no current exposure pathway to Parcels 6, 7, and 8 groundwater, and the selected remedy prohibits the installation of drinking water wells in the Parcels 6, 7, and 8 area.

9. *The impact of existing and proposed active remediation measures upon the MNA component of the remedy, or the impact of remediation measures or other operations/activities (e.g. pumping wells) in close proximity to the site*

There are no operations or activities in close proximity to wells 0315 or 0347 that would impact the MNA component of the selected remedy.

10. *Whether reliable site-specific mechanisms for implementing institutional controls (e.g. zoning ordinances) are available, and if an institution responsible for their monitoring and enforcement can be identified*

Institutional Controls will be implemented as part of the selected remedy for the Parcels 6, 7, and 8 properties. The controls will restrict use of the bedrock groundwater, and DOE, or its successors, have the responsibility to monitor, maintain and enforce these institutional controls in the future.

Based on these factors, it has been determined that Monitored Natural Attenuation is an appropriate remedy for the VOCs in the groundwater in Parcels 6, 7, and 8.

The specifics of the monitoring were established in the Parcels 6, 7, and 8 Groundwater Monitoring Plan approved by USEPA and OEPA. This is part of the Operations & Maintenance (O&M) Plan required by the ROD. Key elements of the monitoring were outlined in Section 2.9.3 of the ROD. Groundwater monitoring provides assurance that the concentration of VOCs observed in Parcels 6, 7, and 8 is decreasing and is not impacting the BVA.

5.0 ENVIRONMENTAL COVENANTS

DOE is committed to include a covenant in accordance with Section 120 (h)(3) of CERCLA in the deed for the sale or transfer of the property that warrants that:

A. All remedial action necessary to protect human health and the environment has been taken as long as the deed restrictions limiting land and groundwater use are in effect and enforced.

B. Any additional response action or corrective action found to be necessary after the date of sale or transfer shall be conducted by the United States [Section 120(h)(4)(D)(i)]. The requirements of the covenant shall not apply in any case in which the person or entity to whom the property is transferred is a potentially responsible party with respect to the property.

C. A clause granting the United States access to the property in any case in which a response action or corrective action is found to be necessary or such access is necessary to carry out a response action or corrective action on the adjoining property [Section 120 (h)(4)(D)(ii)].

6.0 NOTIFICATION / PUBLIC PARTICIPATION

The community has been an active participant in this process to date. Comments from the public on the PRS recommendations have been incorporated as part of the remedy evaluation. DOE believes all comments have been resolved with the commentor and the documents, comments, and responses have been placed in the CERCLA Public Reading Room.

Table 1 lists the Parcels 6, 7, and 8 PRS packages, Parcels 6, 7, and 8 Building Data Packages, Parcels 6, 7, and 8 RRE, and Parcels 6, 7, and 8 Proposed Plan along with the dates they were made available for public comment.

7.0 REFERENCES

Reference 1 Parcels 6, 7, and 8 Record of Decision, Final, August 2009.

Reference 2 Parcels 6, 7, and 8 Residual Risk Evaluation (RRE), Public Review Draft, September 2007.

Reference 3 Parcels 6, 7, 8 Ecological Scoping Report, Final, June 2005.

Reference 4 Parcels 6, 7, and 8 Proposed Plan, Public Review Draft, May 2009.

Reference 5 Residual Risk Evaluation Methodology (RREM), Final, Revision 0, January 6, 1997.

Reference 6 Environmental Assessment for Commercialization of the Mound Plant, October 1994.

Reference 7 Finding of No Significant Impact (FONSI), October 27, 1994.

Reference 8 Delineation of Federal Wetlands and Other Waters of the U.S., Final, August 1999.

APPENDIX A

Figures

Figure 1 Location of Parcels 6, 7, and 8
Figure 2 Regional Context of the Mound Plant
Figure 3 Parcels 6, 7, and 8 Buildings and PRSs

Figure 1 Location of Parcels 6, 7, and 8

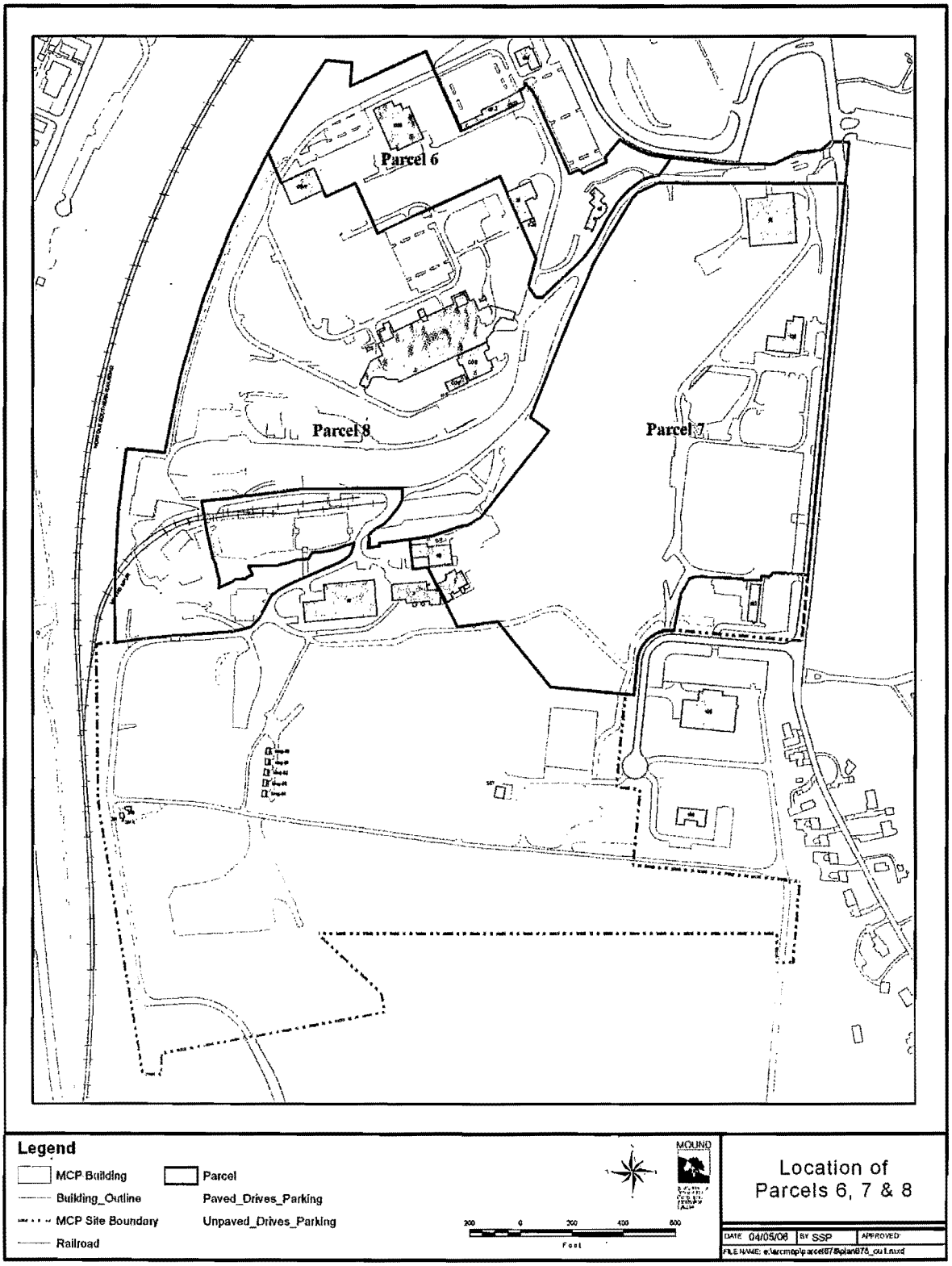
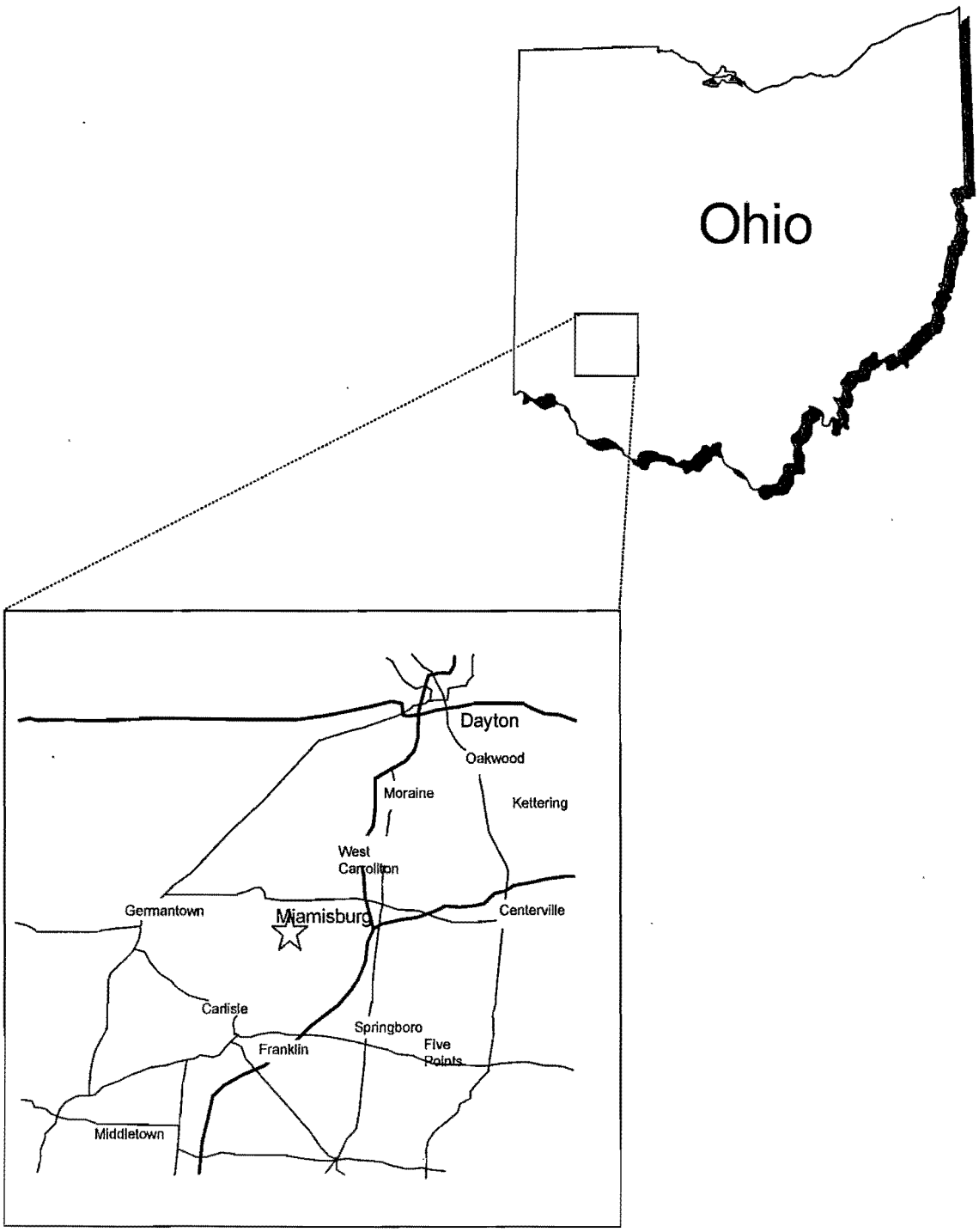


Figure 2 Regional Context of the Mound Plant



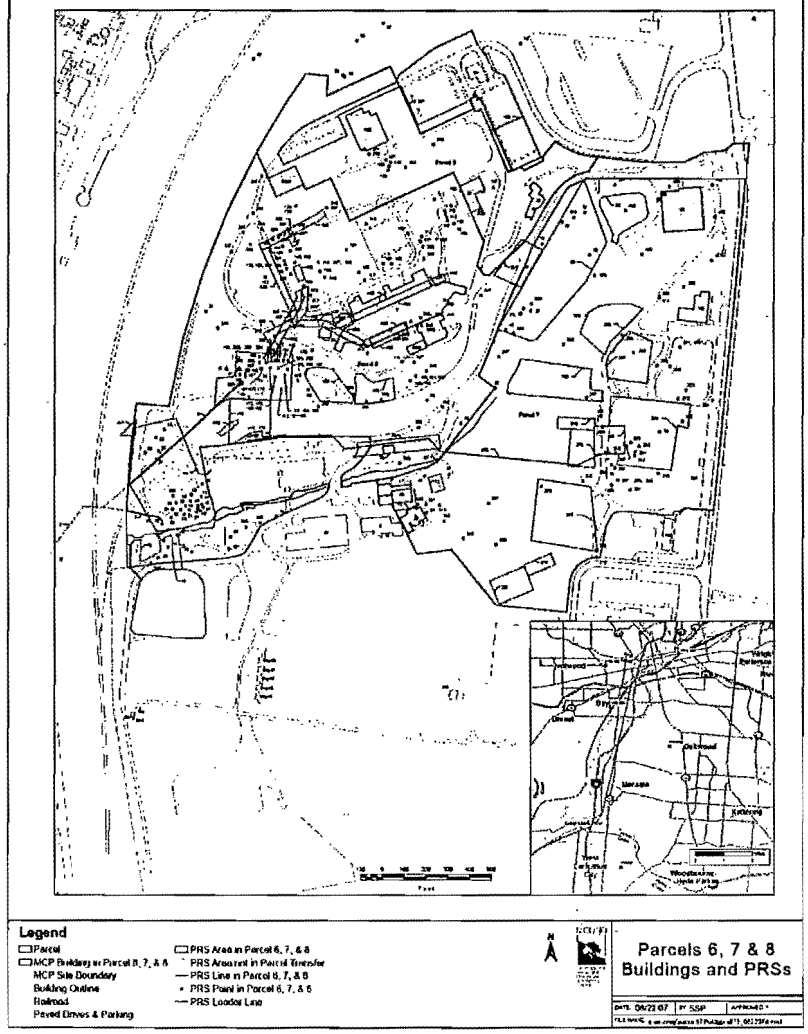


Figure 3 Parcels 6, 7, and 8 Buildings and PRSs

APPENDIX B

Tables

Table 1	Parcels 6, 7, and 8 Documents and Public Comment Periods
Table 2	Parcels 6, 7, and 8 PRSs and Core Team Conclusions
Table 3	Parcels 6, 7, and 8 Transfer Buildings and Core Team Conclusions
Table 4	Parcels 6, 7, and 8 Risk Summary
Table 5	Identification of Constituents of Potential Concern for the Construction Worker Exposed to Surface and Subsurface Soil in Parcel 6
Table 6	Identification of Constituents of Potential Concern for a Site Employee Exposed to Surface Soil in Parcel 6
Table 7	Identification of Constituents of Potential Concern for the Construction Worker Exposed to Surface and Subsurface Soil in Parcel 7
Table 8	Identification of Constituents of Potential Concern for a Site Employee Exposed to Surface Soil in Parcel 7
Table 9	Identification of Constituents of Potential Concern for the Construction Worker Exposed to Surface and Subsurface Soil in Parcel 8
Table 10	Identification of Constituents of Potential Concern for a Site Employee Exposed to Surface Soil in Parcel 8
Table 11	Building Analysis Summary

Table 1. Parcels 6, 7, and 8 Documents and Public Comment Periods

Parcel	Document	Comment Period Start	Comment Period End
6	Bldg 28 BDP/FSR	07/26/03	08/25/03
6	Bldg 40 BDP/WP	08/18/03	09/17/03
6	Bldg 45 BDP/FSR	05/16/05	06/15/05
6	Bldg 46 BDP/WP	05/14/03	06/13/03
6	Bldg 47 BDP/WP	05/19/03	06/18/03
6	Bldg 60 BDP/WP	03/11/03	04/10/03
6	Bldg 99 BDP/WP	8/18/03	9/17/03
6	Bldg A BDP/WP	02/14/04	03/15/04
6	Bldg C BDP/WP	1/6/98	2/5/98
6	Bldg G BDP/WP	06/30/03	07/30/03
6	Bldg GW, W BDP/WP	7/2/03	8/1/03
6	Bldg OSE BDP/FSR	10/24/03	11/23/03
6	PRS 106 (G soil) PRS Pkg	11/29/04	12/29/04
6	PRS 107-109 (G Gas Tank) PRS Pkg	2/12/98	3/16/98
6	PRS 126-127 (Bldg -28 Solvent Shed)	10/15/96	11/15/96
6	PRS 211,212 PRS Pkg	11/29/04	12/29/04
6	PRS 242	6/19/96	7/17/96
6	PRS 332	1/30/97	3/6/97
7	Bldg 2 BDP	4/17/02	5/17/02
7	Bldg 29 BDP/FSR	8/19/02	9/18/02
7	Bldg 30 BDP	06/12/04	07/12/04
7	Bldg 31 BDP	06/12/04	07/12/04
7	Bldg 31 Fact Sheet	06/12/04	07/12/04
7	Bldg 33 Slab PRS Pkg	11/13/03	12/13/03
7	Bldg 36 BDP/WP	11/10/03	12/10/03
7	Bldg 36 Dock Fact Sheet	05/05/04	06/04/04
7	Bldg 36 FSR Add 1	11/17/03	12/17/03
7	Bldg 37 BDP/WP	10/06/03	11/05/03
7	Bldg 38 AM Add 1	02/13/04	03/14/04
7	Bldg 38 AM	02/18/03	03/20/03
7	Bldg 44 BDP/FSR	8/19/2002	9/18/2002
7	Bldg 49 BDP/WP	11/01/01	12/01/01
7	Bldg 49 BDP/WP	02/13/03	03/15/03
7	Bldg 50 BDP/WP	11/07/03	12/07/03
7	Bldg 61 BDP	12/4/02	1/3/03
7	Bldg 63 BDP/FSR	8/28/02	9/27/02

Table 1. Parcels 6, 7, and 8 Documents and Public Comment Periods

Parcel	Document	Comment Period Start	Comment Period End
7	Bldg 98 BDP/FSR	10/2/02	11/1/02
7	Bldg 126 BDP/FSR	10/25/04	11/27/04
7	Bldg 128 BDP/FSR	03/18/05	04/17/05
7	Bldg GP-44 BDP/FSR	7/9/98	8/8/98
7	CRA Add 1 Structures AM Add 1	04/22/04	05/22/04
7	PRS 31-36, 125 &270 PRS Pkg	12/4/02	1/3/03
7	PRS 37, 399 PRS Pkg	11/29/96	1/1/97
7	PRS65/402/403/404 PRS Pkg	11/29/96	1/1/97
7	PRS 66 AM	01/05/03	02/04/03
7	PRS 66, 40 PRS Pkg	02/13/00	03/14/00
7	PRS 67 Fact Sheet	03/30/04	04/29/04
7	PRS 72 PRS Pkg	1/16/02	3/27/02
7	PRS 80 PRS Pkg	7/3/02	8/2/02
7	PRS 85 PRS Pkg	11/29/96	1/1/97
7	PRS 86 PRS Pkg	11/29/96	1/1/97
7	PRS 87 AM	11/17/04	12/17/04
7	PRS 87 PRS Pkg Add 1	9/3/03	10/3/03
7	PRS 176/177/178/300 PRS Pkg	1/9/97	2/13/97
7	PRS 266, 395 PRS Pkg	10/24/95	2/15/96
7	PRS 267 PRS Pkg Add 1	06/11/03	07/11/03
7	PRS 269 PRS Pkg	4/9/03	5/9/03
7	PRS 269 PRS Pkg Add 1	04/09/03	05/09/03
7	PRS 271, 336 PRS Pkg	11/29/04	12/29/04
7	PRS 274/275 PRS Pkg	12/18/02	1/18/03
7	PRS 274/275 Fact Sheet	4/3/02	5/3/02
7	PRS 277,278 PRS Pkg	4/17/02	5/17/02
7	PRS 277, 278 Fact Sheet	8/28/02	9/26/02
7	PRS 279 PRS Pkg	2/15/96	2/29/96
7	PRS 302 PRS Pkg	10/15/96	11/15/96
7	PRS 307 PRS Pkg	6/17/97	7/18/97
7	PRS 308 PRS Pkg	4/26/01	5/31/01
7	PRS 309 PRS Pkg	1/30/97	3/6/97
7	PRS 310, 382 PRS Pkg	1/15/97	2/15/97
7	PRS 315, 316, 319 PRS Pkg	1/30/97	3/6/97
7	PRS 330 PRS Pkg	4/3/97	5/8/97
7	PRS 331 PRS Pkg	10/15/96	11/15/96
7	PRS 338 PRS Pkg	1/30/97	3/6/97

Table 1. Parcels 6, 7, and 8 Documents and Public Comment Periods

Parcel	Document	Comment Period Start	Comment Period End
7	PRS 351-353/357/359/360-362/385-387 PRS Pkg	12/19/96	1/23/97
7	PRS 364 PRS Pkg	12/19/96	1/23/97
7	PRS 388 PRS Pkg	12/19/96	1/23/97
7	PRS 389/392 PRS Pkg	12/19/96	1/23/97
7	PRS 390/393/394 PRS Pkg	2/27/97	4/3/97
7	PRS 391 PRS Pkg	4/3/97	5/8/97
7	PRS 396 PRS Pkg	4/3/97	5/8/97
7	PRS 397 PRS Pkg Add 1	2/25/03	3/27/03
7	PRS 400 PRS Pkg	1/30/97	3/6/97
7	PRS 401 PRS Pkg	1/30/97	3/6/97
7	PRS 412 PRS Pkg	4/15/98	5/15/98
7	Bldg 30 OSC Report	No public review, finalized 12/22/04	
7	Bldg 31 OSC Report	No public review, finalized 5/31/05	
7	Bldg 38 Structure OSC Report	No public review, finalized 12/10/03	
7	Bldg 38 Soils OSC Report	No public review, finalized 1/30/06	
7	Bldg 50 RDS OSC Report	No public review, finalized 5/31/05	
7	PRS 277 OSC Report	No public review, finalized 3/06/03	
7	PRS 67 OSC Report	No public review, finalized 2/06/06	
7	PRS 68 OSC Report	No public review, finalized 3/20/06	
7	PRS 66 OSC Report	No public review, finalized 10/12/05	
7	PRS 66 OSC Report, Addendum 1	No public review, finalized 7/19/06	
7	PRS 87 OSC Report	No public review, finalized 3/06/06	
7	PRS 266 OSC Report	No public review, finalized 8/28/03	
8	Bldg 19 BDP/WP	4/30/03	5/30/03
8	Bldg 22 BDP/WP	10/07/04	11/06/04
8	Bldg 23 AM	7/16/03	8/15/03
8	Bldg 24 BDP/WP	2/25/05	3/27/05
8	Bldg 34 BDP/WP	5/22/03	6/21/03
8	Bldg 34 Slab/Soil Fact Sheet	11/22/05	12/22/05
8	Bldg 48 BDP/WP	12/05/03	1/04/04
8	Bldg 55 BDP/FSR	7/10/02	8/9/02
8	Bldg 56 BDP/WP	8/27/04	9/26/04
8	Bldg 57 AM	2/07/05	3/09/05
8	Bldg 72 BDP/WP	10/29/04	11/28/04
8	Bldg 89 BDP/WP	4/07/03	5/07/03
8	Bldg 94 BDP/WP	1/21/03	2/20/03
8	Bldg 104 BDP/WP	3/25/05	4/24/05

Table 1. Parcels 6, 7, and 8 Documents and Public Comment Periods

Parcel	Document	Comment Period Start	Comment Period End
8	Bldg 124 (CWPF) AM	12/06/04	1/05/05
8	Bldg B AM	3/02/04	4/01/04
8	Bldg COS BDP	11/15/00	12/15/00
8	Bldg DS BDP/WP	04/05/04	5/05/04
8	Bldg E AM	4/18/00	5/18/00
8	Bldg GP-8 BDP/WP	11/19/04	12/19/04
8	Bldg H AM	6/28/03	7/28/03
8	Bldg HH AM	8/22/02	9/21/02
8	Bldg I AM	5/6/02	6/5/02
8	Bldg MH Water Tower BDP/WP	4/09/04	5/09/04
8	Bldg M BDP/WP	7/25/01	8/27/01
8	Bldg OSW BDP/FSR	10/24/03	11/23/03
8	Bldg P BDP/WP	1/21/05	2/20/05
8	Bldg PS BDP	3/3/99	4/1/99
8	Bldg R AM	1/30/03	3/01/03
8	Bldg R/SW/58 & 68 Slab AM Add 1	8/23/04	9/22/04
8	Bldg SD, UGL AM	3/29/00	4/29/00
8	Bldg T AM	3/07/03	4/06/03
8	Bldg T BDP	3/07/03	4/06/03
8	Bldg T Factsheet	2/27/06	3/1/06
8	Bldg WD AM	2/21/00	3/22/00
8	Magazine 7 BDP	8/26/97	9/25/97
8	Magazine 11 BDP	8/26/97	9/25/97
8	Magazine 52 BDP	2/15/99	3/17/99
8	Magazine 54 BDP	8/26/97	9/25/97
8	Magazine 64 BDP	2/15/99	3/17/99
8	PRS 7 PRS Pkg	pending	pending
8	PRS 14 PRS Pkg	6/19/96	7/17/96
8	PRS 17 Fact Sheet	4/26/04	5/26/04
8	PRS 17 PRS Pkg	1/9/97	2/13/97
8	PRS 18 PRS Pkg	10/15/96	11/15/96
8	PRS 19 PRS Pkg	10/15/96	11/15/96
8	PRS 20 PRS Pkg	1/9/97	2/13/97
8	PRS 31-36, 125 & 270 PRS Pkg	12/4/02	1/3/03
8	PRS 41 Fact Sheet	12/05/03	1/04/04
8	PRS 41 PRS Pkg	2/24/03	3/26/03
8	PRS 42 PRS Pkg	1/9/97	2/13/97

Table 1. Parcels 6, 7, and 8 Documents and Public Comment Periods

Parcel	Document	Comment Period Start	Comment Period End
8	PRS 59 PRS Pkg	7/15/97	8/17/97
8	PRS 60 PRS Pkg	8/19/05	9/18/05
8	PRS 63 PRS Pkg	9/15/97	10/15/97
8	PRS 63 PRS Pkg Add 1	9/30/03	10/30/03
8	PRS 67-70 Fact Sheet	3/29/04	4/29/04
8	PRS 75 Fact Sheet	11/06/03	12/06/03
8	PRS 75 PRS Pkg	12/02/96	1/01/97
8	PRS 76 AM	11/17/04	12/17/04
8	PRS 81 PRS Pkg	5/15/96	6/17/96
8	PRS 82 PRS Pkg	1/14/97	2/13/97
8	PRS 84 PRS Pkg	9/16/96	10/15/96
8	PRS 90 PRS Pkg	3/1/96	4/1/96
8, offsite	PRS 91,92,94-98 PRS Pkg Add 1 (Rev 1)	2/17/06	3/19/06
8	PRS 101, 102 PRS Pkg	9/12/05	10/12/05
8	PRS 103 PRS Pkg	9/16/96	10/15/96
8	PRS 105 PRS Pkg	9/16/96	10/15/96
8	PRS 111 AM	3/18/96	4/1/96
8	PRS 110 PRS Pkg	5/8/97	6/16/97
8	PRS 112, 368 PRS Pkg	1/23/06	2/22/06
8	PRS 113-117 PRS Pkg	5/8/97	6/16/97
8	PRS 129, 130 PRS Pkg	06/18/97	07/18/97
8	PRS 147 PRS Pkg	3/18/96	4/1/96
8	PRS 153 PRS Pkg	1/9/97	2/13/97
8	PRS 154, 238 Fact Sheet	09/08/03	10/08/03
8	PRS 154, 238 PRS Pkg Add 1	01/21/03	02/20/03
8	PRS176, 177, 178, 300	1/9/97	2/13/97
8	PRS 234 PRS Pkg	09/15/96	10/15/96
8	PRS 235 PRS Pkg	5/8/97	6/16/97
8	PRS 236 PRS Pkg	6/19/96	7/17/96
8	PRS 237 Fact Sheet	09/08/03	10/08/03
8	PRS 237 PRS Pkg	11/15/97	12/15/97
8	PRS 238 Fact Sheet	09/08/03	10/08/03
8	PRS 239 PRS Pkg	3/18/96	4/14/96
8	PRS 240 Fact Sheet	08/21/03	09/20/03
8	PRS 240 PRS Pkg Add 1	2/27/06	3/26/06
8	PRS 243 PRS Pkg	9/16/96	10/10/96
8	PRS 244 PRS Pkg	2/04/97	3/06/97

Table 1. Parcels 6, 7, and 8 Documents and Public Comment Periods

Parcel	Document	Comment Period Start	Comment Period End
8	PRS 245 PRS Pkg	9/16/96	10/10/96
8	PRS 246 PRS Pkg	10/15/96	11/15/96
8	PRS 247 PRS Pkg	5/15/96	6/17/96
8	PRS 345 PRS Pkg	6/19/96	7/17/96
8	PRS 356 PRS Pkg	5/8/97	6/16/97
8	PRS 363 Fact Sheet	9/23/04	10/23/04
8	PRS 363 PRS Pkg	2/14/98	3/16/98
8	PRS 366 PRS Pkg	2/27/97	4/3/97
8	PRS 367 PRS Pkg	2/27/97	4/3/97
8	PRS 405 Fact Sheet	9/15/97	10/15/97
8	PRS 405 PRS Pkg	9/15/97	10/15/97
8	PRS 408 PRS Pkg	6/17/97	7/18/97
8	PRS 409 PRS Pkg Add 1	8/25/05	9/24/05
8	PRS 410 PRS Pkg Add 1	12/10/04	01/09/05
8	PRS 411 PRS Pkg	9/15/97	10/15/97
8	PRS 411 AM	9/15/97	10/15/97
8	PRS 413, 415, 423-440, Underground Lines AM	08/05/03	09/04/03
8	PRS 414 PRS Pkg Add 1	12/09/04	01/08/05
8	PRS 416 PRS Pkg	3/22/00	4/22/00
8	PRS 417 PRS Pkg	4/2/03	5/2/03
8	PRS 420 PRS Pkg	3/15/00	4/15/00
8	PRS 442 PRS Pkg	01/23/06	02/22/06
8	Bldg 124 (CWPF) OSC Report	No public review, finalized 6/15/06	
8	Bldg 34 Slab/Soil OSC Report	No public review, finalized 6/5/06	
8	Bldg T Stacks West OSC Report	No public review, finalized 2/9/06	
8	Bldg H OSC Report	No public review, finalized 9/27/04	
8	Bldg HH Structure OSC Report	No public review, finalized 4/20/05	
8	Bldg HH Structure OSC Report, Addendum 1	No public review, finalized 7/27/6	
8	Bldg 57 OSC Report	No public review, finalized 8/8/6	
8	Bldg R Structure OSC Report	No public review, finalized 2/02/06	
8	Bldg R/SW/B Slab OSC Report	No public review, finalized 8/3/6	
8	Bldg SW Structure OSC Report	No public review, finalized 2/02/06	
8	Bldg 58 Structure OSC Report	No public review, finalized 2/02/06	
8	Bldg T OSC Report	No public review, finalized 8/2/6	
8	Bldg 23 OSC Report	No public review, finalized 5/09/05	
8	Bldg WD OSC Report	No public review, finalized 2/07/06	
8	PRS 411 OSC Report	No public review, finalized 4/11/05	

Table 1. Parcels 6, 7, and 8 Documents and Public Comment Periods

Parcel	Document	Comment Period Start	Comment Period End
8	PRS 41 OSC Report	No public review, finalized 7/20/06	
8	PRS 17 OSC Report	No public review, finalized 3/30/06	
8	PRS 69 OSC Report	No public review, finalized 3/15/06	
8	PRS 70 OSC Report	No public review, finalized 7/19/6	
8	PRS 75 OSC Report	No public review, finalized 2/08/06	
8	PRS 76 OSC Report	No public review, finalized 5/31/05	
8	PRS 237 OSC Report	No public review, finalized 4/20/05	
8	PRS 11 OSC Report	No public review, finalized 8/2/6	
8	Grp 9 Subcontractor Compound OSC Report	No public review, finalized 5/11/06	
8	PRS 423 OSC Report	No public review, finalized 2/01/06	
8	Bldg HH Soils/Slab OSC Report	No public review, finalized 3/28/06	
8	PRS 123 OSC Report	No public review, finalized 10/10/05	
8	PRS 124 OSC Report	No public review, finalized 6/15/06	
8	PRS 153 OSC Report	No public review, finalized 6/15/06	
8	PRS 159 OSC Report	No public review, finalized 7/31/6	
6, 7, & 8	PRS 317 PRS Pkg	1/23/06	2/22/06
6, 7, & 8	Ecological Scoping Report, Parcels 6, 7, & 8	05/09/05	06/08/05
6, 7, & 8	Proposed Plan	7/10/09	8/10/09
6, 7, & 8	Residual Risk Evaluation	9/20/07	10/20/07
6, 7, & 8	Record of Decision	N/A	N/A

Note: OSC Reports do not require public review.

Table 2 - PRSs and Core Team Conclusions

Parcel	PRS	Description	Initial Core Team Decision	Closeout of PRS
6	106	G Building Soils (AKA Garage Area)	NFA	Recommendation signed 11/17/04
6	107	G Building Gasoline Tank (Tank 202)	NFA	Recommendation signed 12/17/97
6	108	G Building Gasoline Tank (Tank 203)	NFA	Recommendation signed 12/17/97
6	109	G Building Gasoline Tank (Tank 204)	NFA	Recommendation signed 12/17/97
6	126	Building 28 Solvent Storage Area	NFA	Recommendation signed 10/3/96
6	127	Building 28 Solvent Storage Shed	NFA	Recommendation signed 10/3/96
6	211	A Building Decontamination Shower Water Tank (Tank 28)	NFA	Recommendation signed 11/17/04
6	212	A Building Decontamination Shower Water Tank (Tank 29)	NFA	Recommendation signed 11/17/04
6	241	Northwest Parking Lots	NFA	Recommendation signed 5/13/97
6	242	VOC Potential Hot Spot Location 1016	NFA	Recommendation signed 5/8/96
7	32	Underground Sanitary Sewer Line G12	NFA	Recommendation signed 11/26/02
7	36	Underground Sanitary Sewer Line G15	NFA	Recommendation signed 11/26/02
7	37	Building 51 Waste Solvent Storage Tank (Tank 220)	NFA	Recommendation signed 11/21/96
7	38	Building 51 Waste Incinerator	NFA	Closed with PRS 66 OSC
7	39	Building 51 Waste Incinerator Scrubber	NFA	Closed with PRS 66 OSC
7	40	Building 66 Lot	NFA	Closed with PRS 66 OSC
7	65	Building 61 Area, Former Heavy Equipment Area	NFA	Recommendation signed 11/21/96
7	66	Area 7, Thorium and Polonium Wastes	Removal Action	OSC signed 9/30/05
7	67	Plant Drainage Ditch	Removal Action	OSC signed 1/10/06
7	68	Asphalt-Lined Pond	Removal action	OSC signed 1/10/06
7	72	Area 13, Polonium-Contaminated Wood from Dayton, Unit IV	NFA	Recommendation signed 1/16/02
7	77	Warehouse 10	Removal Action	OSC Signed 9/27/05
7	78	Warehouse 13	Removal Action	OSC Signed 9/27/05

Table 2 - PRSs and Core Team Conclusions

Parcel	PRS	Description	Initial Core Team Decision	Closeout of PRS
7	79	Warehouse 15	NFA	Recommendation signed 12/17/96
7	80	Warehouse 15A	Removal Action	OSC Signed 9/30/05
7	83	Building 2 Propane Storage Tank (Tank 122)	NFA	Recommendation signed 2/02
7	85	Building 29 Solvent Storage Shed	NFA	Recommendation signed 11/21/96
7	86	Building 29 Septic Tank (Tank 224)	NFA	Recommendation signed 11/21/96
7	87	Building 49 Solvent Storage Shed	Removal Action	OSC Signed 6/28/05
7	89	Test Fire Residual Storage Area	NFA	Recommendation signed 2/02
7	235	Area of Possible Elevated Thorium Activity	NFA	Recommendation signed 2/19/97
7	266	Area 8, Thorium-Contaminated Soils from Areas 1 and 9	Removal Action	OSC signed 8/22/03
7	267	Area 9, Thorium Storage and Redrumming Area	Removal Action	OSC Signed 9/27/05
7	268	Building 31, Contaminated Material Storage Building	Removal Action	OSC Signed 5/25/05
7	269	Building 36 Historic Gasoline Tanks (Tanks 239 and 240)	NFA	Recommendation signed 3/19/03
7	270	Underground Sanitary Sewer Lines G6 and G7	NFA	Recommendation signed 11/26/02
7	271	Building 37 Sanitary Waste Tank (Tank 100)	NFA	Recommendation signed 11/17/04
7	272	Area 10, Concrete Debris	NFA	Closed with Building 38 Soils OSC 9/27/05
7	273	Area 12, Thorium-Contaminated Soil from Area 1	Removal Action	OSC Signed 9/27/05
7	274	Area 21 Old Bunker	Removal Action	OSC signed 10/31/02
7	275	Area 21, Detonator Shack	Removal Action	OSC signed 10/31/02
7	277	Area J, Hillside Disposal Area (AKA Dredged Material Disposal Area 11a)	Removal Action	OSC signed 3/6/03
7	278	Area J, Hillside Catch Basin	Removal Action	OSC signed 3/6/03
7	285	Area 11, Contamination from SM Building Operations	Removal Action	Closed with Building 38 Soils OSC 9/27/05
7	286	Area 16, SM Building Sanitary Sewage Septic Tank Leach Field	Removal Action	Closed with Building 38 Soils OSC 9/27/05
7	287	SM Building Historic Septic Tank (Tank 241)	Removal Action	Closed with Building 38 Soils OSC 9/27/05
7	288	Area 17, SM Building Soils	Removal Action	Closed with Building 38 Soils OSC 9/27/05

Table 2 - PRSs and Core Team Conclusions

Parcel	PRS	Description	Initial Core Team Decision	Closeout of PRS
7	289	SM Building Alpha Wastewater Tank (Tank 210)	Removal Action	Closed with Building 38 Soils OSC 9/27/05
7	290	SM Building Alpha Wastewater Tank (Tank 211)	Removal Action	Closed with Building 38 Soils OSC 9/27/05
7	291	SM Building Alpha Wastewater Tank (Tank 212)	Removal Action	Closed with Building 38 Soils OSC 9/27/05
7	292	SM Building Alpha Wastewater Tank (Tank 213)	Removal Action	Closed with Building 38 Soils OSC 9/27/05
7	293	SM Building Solidification Unit (Room SM-1)	Removal Action	OSC Signed 5/03/05
7	294	WS Building Solidification Unit	Removal Action	OSC signed 11/19/03
7	295	Building 38 Solid Radioactive Waste Compactors (2 units)	Removal Action	OSC signed 11/19/03
7	296	Building 38 West Dock Sump (Tank 25)	Removal Action	Closed with Building 38 Soils OSC 9/27/05
7	297	Building 38 Alpha Wastewater Sump (Tank 26)	Removal Action	Closed with Building 38 Soils OSC 9/27/05
7	298	Building 38 Alpha Wastewater Sump (Tank 27)	Removal Action Complete	Closed with Building 38 Soils OSC 9/27/05
7	299	Building 38 Diesel Fuel Storage Tank (Tank 121)	Removal Action	OSC Signed 10/11/05
7	300	Area 19, Underground Waste Transfer Line	NFA	Recommendation signed 12/17/96
7	301	Building 38 In-Line Incinerator	Removal Action	OSC signed 11/19/03
7	302	Area D, Acid Leach Field	NFA	Recommendation signed 10/3/96
7	303	Warehouse 14 (AKA Pad 14)	Removal Action	OSC Signed 9/27/05
7	305	SM Stack	Removal Action	OSC signed 11/19/03
7	307	Site Survey Project Potential Hot Spot Location C0007	NFA	Recommendation signed 3/31/97
7	308	Site Survey Project Potential Hot Spot Location C0028	NFA	Recommendation signed 2/21/01
7	309	Site Survey Project Potential Hot Spot Location S0307	NFA	Recommendation signed 12/17/96
7	310	Site Survey Project Potential Hot Spot Location S0647	NFA	Recommendation signed 1/14/97
7	319	Epoxy Resin Disposal	NFA	Recommendation signed 12/17/96
7	326	Building 38 Sanitary Sump (Tank 254)	Removal Action	OSC signed 11/19/03
7	330	Building 2 Fuel Oil Tank (Tank 260)	NFA	Recommendation signed 2/19/97
7	331	Building 2 Tank (Tank 261)	NFA	Recommendation signed 10/3/96
7	336	Building 37 Waste Tank (AKA Low Risk Waste Tank) (Tank 267)	NFA	Recommendation signed 11/17/04

Table 2 - PRSs and Core Team Conclusions

Parcel	PRS	Description	Initial Core Team Decision	Closeout of PRS
7	338	Building 29 Septic Tank (Tank 270)	NFA	Recommendation signed 12/17/96
7	364	Elevated Soil Gas Location	NFA	Recommendation signed 11/20/96
7	382	Elevated Soil Gas Location	NFA	Recommendation signed 1/14/97
7	385	Elevated Soil Gas Location	NFA	Recommendation signed 11/20/96
7	386	Elevated Soil Gas Location	NFA	Recommendation signed 11/20/96
7	387	Elevated Soil Gas Location	NFA	Recommendation signed 11/20/96
7	388	Elevated Soil Gas Location	NFA	Recommendation signed 11/20/96
7	389	Elevated Soil Gas Location	NFA	Recommendation signed 11/20/96
7	390	Elevated Soil Gas Location	NFA	Recommendation signed 12/17/96
7	391	Elevated Soil Gas Location	NFA	Recommendation signed 2/19/97
7	392	Elevated Soil Gas Location	NFA	Recommendation signed 11/20/96
7	393	Elevated Soil Gas Location	NFA	Recommendation signed 12/17/96
7	394	Elevated Soil Gas Location	NFA	Recommendation signed 12/17/96
7	395	Elevated Soil Gas Location	NFA	Recommendation signed 12/18/96
7	396	Elevated Soil Gas Location	NFA	Recommendation signed 12/18/96
7	397	Elevated Soil Gas Location	NFA	Recommendation signed 2/19/3
7	398	Elevated Soil Gas Location	NFA	Recommendation signed 8/20/3
7	399	Elevated Soil Gas Location	NFA	Recommendation signed 11/21/96
7	400	Elevated Soil Gas Location	NFA	Recommendation signed 12/17/96
7	401	Elevated Soil Gas Location	NFA	Recommendation signed 12/17/96
7	402	Elevated Soil Gas Location	NFA	Recommendation signed 11/21/96
7	403	Elevated Soil Gas Location	NFA	Recommendation signed 11/21/96

Table 2 - PRSs and Core Team Conclusions

Parcel	PRS	Description	Initial Core Team Decision	Closeout of PRS
7	404	Elevated Soil Gas Location	NFA	Recommendation signed 11/21/96
7	412	Soil Contamination – Radiological	Removal Action	OSC signed 8/22/03
7	422	Plutonium Hot Spot	NFA	Recommendation signed 8/22/01
8	14	Area C, Waste Storage Area (AKA Drum Staging Area and Chemical Waste Storage)	NFA	Recommendation signed 5/8/96
8	15	Area C, Lithium Burn Area (AKA Lithium Carbonate Disposal)	NFA	Recommendation signed 2/19/97
8	17	Oil Burn Structure	Removal Action	OSC signed 1/10/06
8	18	Building 34, Fire Fighting Training Facility Pits	NFA	Recommendation signed 10/3/96
8	19	Building 34, Historical Firefighting Training Pit	NFA	Recommendation signed 10/3/96
8	20	Building 34, Aviation Fuel Storage Tank (Tank 219)	NFA	Recommendation signed 12/17/96
8	31	Underground Sanitary Sewer Line G5	NFA	Recommendation signed 11/26/02
8	32	Underground Sanitary Sewer Line G12	NFA	Recommendation signed 11/26/02
8	35	Underground Sanitary Sewer Lines G19 and G14	NFA	Recommendation signed 11/26/02
8	41	Area 3, Thorium Drum Storage and Redrumming Area	Removal Action	Pending
8	42	Area A, construction Soils from T Building	NFA	Recommendation signed 12/17/96
8	43	Wastewater Treatment plant Building 57 Grit Chamber (Tank 101)	Removal Action	Closed with Building 57 OSC 7/13/6
8	44	Building 57 Grit Conveyor	Removal Action	Closed with Building 57 OSC 7/13/6
8	45	Building 57 Comminuter (Tank 102)	Removal Action	Closed with Building 57 OSC 7/13/6
8	46	Building 57 Equalization Basin (Tank 103)	Removal Action	Closed with Building 57 OSC 7/13/6
8	47	Building 57 Equalization Basin (Tank 104)	Removal Action	Closed with Building 57 OSC 7/13/6
8	48	Building 57 Equalization Basin (Tank 105)	Removal Action	Closed with Building 57 OSC 7/13/6
8	49	Building 57 Equalization Basin (Tank 106)	Removal Action	Closed with Building 57 OSC 7/13/6
8	50	Building 57 Aeration Basin (Tank 107)	Removal Action	Closed with Building 57 OSC 7/13/6

Table 2 - PRSs and Core Team Conclusions

Parcel	PRS	Description	Initial Core Team Decision	Closeout of PRS
8	51	Building 57 Aeration Basin (Tank 108)	Removal Action	Closed with Building 57 OSC 7/13/6
8	52	Building 57 Clarifier (Tank 109)	Removal Action	Closed with Building 57 OSC 7/13/6
8	53	Building 57 Clarifier (Tank 110)	Removal Action	Closed with Building 57 OSC 7/13/6
8	54	Building 57 Sand Filters (2 units)	Removal Action	Closed with Building 57 OSC 7/13/6
8	55	Building 57 Chlorine Contact Chamber (Tank 111)	Removal Action	Closed with Building 57 OSC 7/13/6
8	56	Building 57 Chlorine Contact Chamber (Tank 112)	Removal Action	Closed with Building 57 OSC 7/13/6
8	57	Sludge Drying Beds	NFA	Recommendation signed 11/21/96
8	58	Dredge Spoil Drying Beds	NFA	Recommendation signed 11/21/96
8	59	Contaminated Soil Box Storage Area	NFA	Recommendation signed 5/13/97
8	60	Hazardous Waste Storage Area (Building 72)	NFA	Recommendation signed 6/14/05
8	61	Building 72 Outdoor Hazardous Waste Storage Area	NFA	Recommendation signed 6/14/05
8	62	Building 72 Empty Drum Storage Area	NFA	Recommendation signed 6/14/05
8	63	Building 19 Soils	NFA	Recommendation signed 9/19/03
8	64	Building 19 Historic Gasoline Tank (Tank 238)	NFA	Recommendation signed 2/19/03
8	67	Plant Drainage Ditch	Removal Action	OSC signed 1/10/06
8	69	Overflow Pond	Removal Action	OSC signed 1/10/06
8	70	Retention Basins and Weir Basin	Removal Action	OSC signed 7/6/6
8	75	Railroad Siding	Removal Action	6/29/05
8	76	Warehouse 9	Removal Action	5/25/05
8	82	Building 57 Diesel Fuel Storage Tank (Tank 118)	NFA	Recommendation signed 12/17/96
8	84	Building 56 Diesel Fuel Storage Tank (Tank 123)	NFA	Recommendation signed 8/20/96
8	90	Site Survey Project Potential Hot Spot Location S0425	NFA	Recommendation signed 3/4/96
8	91	Main Hill Seep 0601	Retired	1/24/06
8	92	Main Hill Seep 0602	Retired	1/24/06
8	101	Cooling Tower Basins	NFA	8/16/00

Table 2 - PRSs and Core Team Conclusions

Parcel	PRS	Description	Initial Core Team Decision	Closeout of PRS
8	102	Cooling Tower Drum Storage Area	NFA	8/16/00
8	103	E Building Soils	NFA	Recommendation signed 8/20/96
8	104	Scintillation Vial Storage Area	Removal Action	E Building OSC signed 10/21/02
8	105	E Building Solvent Storage Shed	NFA	Recommendation signed 8/20/96
8	110	I Building Soils	NFA	Recommendation signed 3/18/97
8	111	Monitor Well 0034	Removal Action	OSC signed 10/15/96
8	112	Paint Shop Area	NFA	Recommendation signed 10/11/5
8	113	Powerhouse Soils	NFA	Recommendation signed 3/18/97
8	114	Powerhouse Fuel Oil Storage Tank (Tank 113)	NFA	Recommendation signed 3/18/97
8	115	Powerhouse Fuel Oil Storage Tank (Tank 114)	NFA	Recommendation signed 3/18/97
8	116	Powerhouse Fuel Oil Storage Tank (Tank 115)	NFA	Recommendation signed 3/18/97
8	117	Powerhouse Fuel Oil Storage Tank (Tank 116)	NFA	Recommendation signed 3/18/97
8	118	M Building Soils	NFA	Recommendation signed 2/20/01
8	119	Room M-38 Metal Plating Rinse Water Sump (Tank 225)	NFA	Recommendation signed 2/20/01
8	120	Room M-108 Metal Plating Rinse Water Tank (Tank 119)	NFA	Recommendation signed 2/20/01
8	121	Vapor Degreasers	NFA	Recommendation signed 2/20/01
8	123	Area 5, Radioactive Waste Line Break	Removal Action	OSC signed 9/30/05
8	124	Building 48 Hillside	Removal Action	OSC signed 6/13/6
8	125	Underground Sanitary Sewer Line G24	NFA	Recommendation signed 11/26/02
8	126	Building 28 Solvent Storage Area	NFA	Recommendation signed 10/3/96
8	128	DS Building Solvent Storage Shed	NFA	Recommendation signed 4/16/98
8	129	B Building Solvent Storage Shed	NFA	Recommendation signed 5/13/97
8	130	B Building Temporary Drum Storage Area	NFA	Recommendation signed 5/13/97
8	131	SW Building Soils	Removal Action	Closed with RSWB OSC 7/20/6

Table 2 - PRSs and Core Team Conclusions

Parcel	PRS	Description	Initial Core Team Decision	Closeout of PRS
8	132	Area 15, Entombed SW Cave (Rooms SW 1-B)	Removal Action	Closed with RSWB OSC 7/20/6
8	133	SW Building Room 1-A	Removal Action	Closed with RSWB OSC 7/20/6
8	134	SW Building Drum Storage Area	Removal Action	Closed with RSWB OSC 7/20/6
8	135	Rooms SW-8 Beta Wastewater Tank (Tank 20)	Removal Action	Closed with RSWB OSC 7/20/6
8	136	Room SW-125 Beta Wastewater Tank (Tank 21)	Removal Action	Closed with RSWB OSC 7/20/6
8	137	Room SW-143 Beta Wastewater Tank (Tank 22)	Removal Action	Closed with RSWB OSC 7/20/6
8	138	Room SW-137 Beta Wastewater Sump (Tank 23)	Removal Action	Closed with RSWB OSC 7/20/6
8	139	Room SW-10 Beta Wastewater Sump (Tank 226)	Removal Action	Closed with RSWB OSC 7/20/6
8	140	Beta Waste Solidification Facility - SW Building	Removal Action	Closed with RSWB OSC 7/20/6
8	141	Tritium Effluent Removal System	Removal Action	Closed with RSWB OSC 7/20/6
8	142	SW/R Building Solid Radioactive Waste Compactor	Removal Action	Closed with RSWB OSC 7/20/6
8	143	R/SW/T Building Stack Diesel Fuel Storage Tank (Tank 117)	Removal Action	Closed with RSWB OSC 7/20/6
8	144	R Building Sanitary Waste Collection Tank (Tank 120)	Removal Action	Closed with RSWB OSC 7/20/6
8	145	Room R-128 Alpha Wastewater Tank (Tank 19)	Removal Action	Closed with RSWB OSC 7/20/6
8	146	R Building Room 121, 144, 146, and 148 entombed drains	Removal Action	Closed with RSWB OSC 7/20/6
8	147	HH Building Soils	NFA	Recommendation signed 3/14/96
8	148	HH Building Solidification Unit	Removal Action	OSC Signed 4/19/05
8	149	HH Building Pilot Incinerator	Removal Action	OSC Signed 4/19/05
8	150	Room HH-15 Beta Wastewater Sump (Tank 236)	Removal Action	OSC Signed 4/19/05
8	151	Room HH-6 Alpha Wastewater Sump (Tank 237)	Removal Action	OSC Signed 4/19/05
8	152	HH Building Beta Wastewater Sump (Tank 24)	Removal Action	OSC Signed 4/19/05
8	153	Area 20, Radioactive Waste Line Break	Removal Action	OSC signed 7/13/6
8	154	Area 23, Thorium Contaminated Soil	Removal Action	OSC signed 7/13/6
8	155	Old Sanitary Disposal (SD) Plant (AKA Old Sanitary Wastewater Treatment Plant)	Removal Action	OSC signed 7/6/6
8	156	Old SD Plant Tank (Tank 205)	Removal Action	OSC signed 7/6/6
8	157	Old SD Plant Tank (Tank 206)	Removal Action	OSC signed 7/6/6

Table 2 - PRSs and Core Team Conclusions

Parcel	PRS	Description	Initial Core Team Decision	Closeout of PRS
8	158	Old SD Plant Tank (Tank 207)	Removal Action	OSC signed 7/6/6
8	159	Area 4A, Sewage Sludge Drying Pits	Removal Action	OSC signed 7/6/6
8	160	Mixed Waste Storage Area (Building 23)	Removal Action	OSC Signed 5/03/05
8	161	Glass Melter Furnace	Removal Action	Closed in WD Building Structure OSC 9/29/05
8	162	Glass Melter Feed Drum	Removal Action	Closed in WD Building Structure OSC 9/29/05
8	163	Off-Gas Treatment System Deluge Tank	Removal Action	Closed in WD Building Structure OSC 9/29/05
8	164	Off-Gas Treatment System Venturi Scrubber	Removal Action	Closed in WD Building Structure OSC 9/29/05
8	165	Off-Gas Treatment System Cyclone Demister	Removal Action	Closed in WD Building Structure OSC 9/29/05
8	166	Off-Gas Treatment System HEPA Filter	Removal Action	Closed in WD Building Structure OSC 9/29/05
8	167	Off-Gas Treatment System WD Building Filter Bank	Removal Action	Closed in WD Building Structure OSC 9/29/05
8	168	Off-Gas Treatment system Recycle Tank	Removal Action	Closed in WD Building Structure OSC 9/29/05
8	169	Off-Gas Treatment System Strainer	Removal Action	Closed in WD Building Structure OSC 9/29/05
8	170	Off-Gas Treatment System Leaf Solution Filter	Removal Action	Closed in WD Building Structure OSC 9/29/05
8	171	Off-Gas Treatment System Iodine Absorption Filter	Removal Action	Closed in WD Building Structure OSC 9/29/05
8	172	WDA Building Basement Wash Sump (Tank 11) (AKA Glass Melter Room Sump)	Removal Action	Closed in WD Building Structure OSC 9/29/05
8	173	Cyclone Incinerator	Removal Action	Closed in WD Building Structure OSC 9/29/05
8	174	WD Building Drum Staging Area	Removal Action	Closed in WD Building Structure OSC 9/29/05
8	175	Area 4, WD Building Influent Tank Overflow	Removal Action	Closed in WD Building Structure OSC 9/29/05
8	176	Area 14, Radioactive Waste Line Break	NFA	Recommendation signed 12/17/96
8	177	Building 41 Alpha Wastewater Tank (Tank 208)	NFA	Recommendation signed 12/17/96
8	178	Building 41 Alpha Wastewater Tank (Tank 209)	NFA	Recommendation signed 12/17/96
8	179	WD Building Alpha Wastewater Influent Tank (Tank 3)	Removal Action	Closed in WD Building Structure OSC 9/29/05
8	180	WD Building Alpha Wastewater Influent Tank (Tank 4)	Removal Action	Closed in WD Building Structure OSC 9/29/05

Table 2 - PRSs and Core Team Conclusions

Parcel	PRS	Description	Initial Core Team Decision	Closeout of PRS
8	181	WD Building Alpha Wastewater Influent Tank (Tank 5)	Removal Action	Closed in WD Building Structure OSC 9/29/05
8	182	WD Building Alpha Influent Tank (Tank 6)	Removal Action	Closed in WD Building Structure OSC 9/29/05
8	183	Room WD-1 Basement Sump (Tank 12)	Removal Action	Closed in WD Building Structure OSC 9/29/05
8	184	Room WD-1 Alpha Wastewater Sump (Tank 17)	Removal Action	Closed in WD Building Structure OSC 9/29/05
8	185	Room WD-1 Sanitary Waste Sump (Tank 134)	Removal Action	Closed in WD Building Structure OSC 9/29/05
8	186	Room WD-8 Alpha Wastewater Sump (Tank 18)	Removal Action	Closed in WD Building Structure OSC 9/29/05
8	187	WD Building Alpha Wastewater Clariflocculators (2 units)	Removal Action	Closed in WD Building Structure OSC 9/29/05
8	188	WD Building Alpha Wastewater Mixing Box	Removal Action	Closed in WD Building Structure OSC 9/29/05
8	189	WD Building Alpha Wastewater Sand Filters (2 units)	Removal Action	Closed in WD Building Structure OSC 9/29/05
8	190	WD Building Alpha Wastewater Bone Char Columns (2 units)	Removal Action	Closed in WD Building Structure OSC 9/29/05
8	191	WD Building Alpha Wastewater Effluent Tank (Tank 7)	Removal Action	Closed in WD Building Structure OSC 9/29/05
8	192	WD Building Alpha Wastewater Effluent Tank (Tank 8)	Removal Action	Closed in WD Building Structure OSC 9/29/05
8	193	WD Building Alpha Wastewater Effluent Tank (Tank 9)	Removal Action	Closed in WD Building Structure OSC 9/29/05
8	194	WD Building Alpha Wastewater Effluent Tank (Tank 10)	Removal Action	Closed in WD Building Structure OSC 9/29/05
8	195	WD Building Alpha Wastewater Sludge Pits (2 units)	Removal Action	Closed in WD Building Structure OSC 9/29/05
8	196	WD Building Alpha Wastewater Solidification/Drumming Unit	Removal Action	Closed in WD Building Structure OSC 9/29/05
8	197	WD Building Solid Radioactive Waste Compactor	Removal Action	Closed in WD Building Structure OSC 9/29/05
8	198	WDA Building Basement Sanitary Waste Tank (Tank 135)	Removal Action	Closed in WD Building Structure OSC 9/29/05
8	199	WDA Building Beta Wastewater Influent Tank (Tank 13)	Removal Action	Closed in WD Building Structure OSC 9/29/05
8	200	WDA Building Beta Wastewater Influent Tank (Tank 14)	Removal Action	Closed in WD Building Structure OSC 9/29/05
8	201	WDA Building Beta Wastewater Metering Station	Removal Action	Closed in WD Building Structure OSC 9/29/05
8	202	WDA Building Beta Wastewater Mixing/Solidification Unit	Removal Action	Closed in WD Building Structure OSC 9/29/05

Table 2 - PRSs and Core Team Conclusions

Parcel	PRS	Description	Initial Core Team Decision	Closeout of PRS
8	203	WDA Building Alpha Wastewater Influent Tank (Tank 15)	Removal Action	Closed in WD Building Structure OSC 9/29/05
8	204	WDA Building Alpha Wastewater Influent Tank (Tank 16)	Removal Action	Closed in WD Building Structure OSC 9/29/05
8	205	WDA Building Alpha Wastewater Effluent Tank (Tank 214)	Removal Action	Closed in WD Building Structure OSC 9/29/05
8	206	WDA Building Alpha Wastewater Influent Tank (Tank 215)	Removal Action	Closed in WD Building Structure OSC 9/29/05
8	207	WDA Building Alpha Wastewater Influent Tank (Tank 216)	Removal Action	Closed in WD Building Structure OSC 9/29/05
8	208	WDA Building Solidification Unit	Removal Action	Closed in WD Building Structure OSC 9/29/05
8	209	Building 62 Stack Deluge Tank (Tank 1)	Removal Action	Closed in RSWB OSC 7/20/6
8	210	Room H-131 Laundry Water Tank (Tank 2)	Removal Action	OSC signed 9/22/04
8	213	T Building Solidification Unit	Removal Action	Closed in T Building OSC 7/27/6
8	214	T Building Solid Radioactive Waste Compactor	Removal Action	Closed in T Building OSC 7/27/6
8	215	Room T-1 Cooling Water Sump (Tank 124)	Removal Action	Closed in T Building OSC 7/27/6
8	216	T Building, Corridor 2 Sanitary Wastewater Sump (Tank 125)	Removal Action	Closed in T Building OSC 7/27/6
8	217	Room T-11F Sanitary Wastewater Sump (Tank 126)	Removal Action	Closed in T Building OSC 7/27/6
8	218	Room T-15 Sanitary Wastewater Sump (Tank 127)	Removal Action	Closed in T Building OSC 7/27/6
8	219	T Building, Stair 3 Cooling Water Sump (Tank 128)	Removal Action	Closed in T Building OSC 7/27/6
8	220	Room T-78 Steam Condensate Sump (Tank 129)	Removal Action	Closed in T Building OSC 7/27/6
8	221	T Building, Corridor 8 Sanitary Wastewater Sump (Tank 130)	Removal Action	Closed in T Building OSC 7/27/6
8	222	Room T-78A Sanitary Wastewater Sump (Tank 131)	Removal Action	Closed in T Building OSC 7/27/6
8	223	Room T-90 Cooling System Condensate Sump (Tank 132)	Removal Action	Closed in T Building OSC 7/27/6
8	224	Room T-99 Sanitary Wastewater Sump (Tank 133)	Removal Action	Closed in T Building OSC 7/27/6
8	225	Room T-23 Beta Wastewater Sump (Tank 227)	Removal Action	Closed in T Building OSC 7/27/6
8	226	Room T-3 Floor Drain Sump (Tank 228)	Removal Action	Closed in T Building OSC 7/27/6
8	227	Room T-40 Alpha Wastewater Sump (Tank 229)	Removal Action	Closed in T Building OSC 7/27/6

Table 2 - PRSs and Core Team Conclusions

Parcel	PRS	Description	Initial Core Team Decision	Closeout of PRS
8	228	Room T-41 Alpha Wastewater Sump (Tank 230)	Removal Action	Closed in T Building OSC 7/27/6
8	229	Room T-50 Alpha Wastewater Sump (Tank 231)	Removal Action	Closed in T Building OSC 7/27/6
8	230	Room T-50 Alpha Wastewater Sump (Tank 232)	Removal Action	Closed in T Building OSC 7/27/6
8	231	T Building, Corridor 8 Alpha Wastewater Sump (Tank 233)	Removal Action	Closed in T Building OSC 7/27/6
8	232	T Building, Corridor 7 Alpha Wastewater Sump (Tank 234)	Removal Action	Closed in T Building OSC 7/27/6
8	233	Room T-63 Alpha Wastewater Sump (Tank 235)	Removal Action	Closed in T Building OSC 7/27/6
8	234	Building 58 Diesel Fuel Storage Tank (Tank 222)	NFA	Recommendation signed 8/20/96
8	235	Area of Possible Elevated Thorium Activity	NFA	Recommendation signed 2/19/97
8	236	Site Survey Project Potential Hot Spot Location S0166	NFA	Recommendation signed 5/8/96
8	237	Site Survey Project Potential Hot Spot Location S0175	Removal Action Complete	OSC signed 4/14/05
8	238	Site Survey Project Potential Hot Spot Location S1092	Removal Action	OSC signed 7/13/6
8	239	Site Survey Project Potential Hot Spot Location S0208	NFA	Recommendation signed 3/4/96
8	240	Site Survey Project Potential Hot Spot Location S0472	Removal Action	OSC signed 7/13/6
8	243	VOC Potential Hot Spot Location 1064	NFA	Recommendation signed 8/20/96
8	244	VOC Potential Hot Spot Locations 1076, 1077, 1079, and 1080	NFA	Recommendation signed 12/17/96
8	245	VOC Potential Hot Spot Location 1085	NFA	Recommendation signed 8/20/96
8	246	VOC Potential Hot Spot Locations 1117 and 1118	NFA	Recommendation signed 10/3/96
8	247	VOC Potential Hot Spot Location 1129	NFA	Recommendation signed 5/8/96
8	248	HH Building Stack	Removal Action	OSC signed 4/19/05
8	249	SW Building Stack (NCPDF)	Removal Action	Closed in RSWB OSC 7/20/6
8	250	SW Building Stack (SW1C)	Removal Action	Closed in RSWB OSC 7/20/6
8	251	SW Building Stack (HEFS)	Removal Action	Closed in RSWB OSC 7/20/6
8	252	B Building Stack	Removal Action	Closed in RSWB OSC 7/20/6

Table 2 - PRSs and Core Team Conclusions

Parcel	PRS	Description	Initial Core Team Decision	Closeout of PRS
8	253	T Building WEST Stack	Removal Action	Closed in RSWB OSC 7/20/6
8	254	T Building EAST Stack	Removal Action	Closed in RSWB OSC 7/20/6
8	255	WD Building Stack (ALR)	Removal Action	Closed in WD Building Structure OSC 9/29/05
8	256	WD Building Stack (AHR)	Removal Action	Closed in WD Building Structure OSC 9/29/05
8	257	WD Building Stack (SS)	Removal Action	Closed in WD Building Structure OSC 9/29/05
8	300	Area 19, Underground Waste Transfer Line	NFA	Recommendation signed 12/17/96
8	327	R-111 Calorimetry Bath (Tank 255)	Removal Action	Closed in RSWB OSC 7/20/6
8	328	R-111 Calorimetry Bath (Tank 266)	Removal Action	Closed in RSWB OSC 7/20/6
8	329	Building 62 Hot Waste Sump (Tank 258)	Removal Action	Closed in RSWB OSC 7/20/6
8	337	Building H Condensate Sump (Tank 268)	Removal Action Complete	OSC signed 9/22/04
8	339	T-44 Wastewater Sump (Tank 250)	Removal Action	Closed in T Building OSC 7/27/6
8	340	T-16b Wastewater Sump (Tank 251)	Removal Action	Closed in T Building OSC 7/27/6
8	341	T-90 Condensate Sump (Tank 269)	Removal Action	Closed in T Building OSC 7/27/6
8	342	T-1 Hot Side Fire Water Tank (Tank 271)	Removal Action	Closed in T Building OSC 7/27/6
8	343	T-20 Fire Water Sump (Tank 272)	Removal Action	Closed in T Building OSC 7/27/6
8	344	T-37 Fire Water Sump (Tank 273)	Removal Action	Closed in T Building OSC 7/27/6
8	345	Former Equipment Storage Area (see related site 16)	NFA	Recommendation signed 5/8/96
8	347	Elevated Soil Gas Location	NFA	Recommendation signed 11/20/96
8	351	Elevated Soil Gas Location	NFA	Recommendation signed 11/20/96
8	355	Elevated Soil Gas Location	NFA	Recommendation signed 11/20/96
8	356	Elevated Soil Gas Location	NFA	Recommendation signed 2/19/97
8	360	Elevated Soil Gas Location	NFA	Recommendation signed 11/20/96

Table 2 - PRSs and Core Team Conclusions

Parcel	PRS	Description	Initial Core Team Decision	Closeout of PRS
8	363	Elevated Soil Gas Location	Removal Action	OSC signed 1/10/06
8	366	Elevated Soil Gas Location	NFA	Recommendation signed 12/17/96
8	367	Elevated Soil Gas Location	NFA	Recommendation signed 12/17/96
8	368	Elevated Soil Gas Location	NFA	Recommendation signed 10/11/05
8	405	(North of Bldg. 23) Oil and PCB potential in soil	Removal Action	OSC signed 7/13/6
8	408	Prism Separator Oil Leak	NFA	Recommendation signed 5/13/97
8	411	Soil contamination – asphalt roadway	Removal Action	OSC signed 3/23/05
8	413	Soil contamination – creosote	Removal Action	OSC signed 3/7/2006
8	415	Soil Contamination - Radiological	Removal Action	OSC signed 9/30/05
8	417	Soil Contamination-High Soil Gas near Well 0312	NFA	Recommendation signed 3/19/03
8	423	Hot Waste Line - Segment 1A	Removal Action	OSC signed 9/27/05
8	424	Hot Waste Line - Segment 1B	Removal Action	OSC signed 9/27/05
8	425	Hot Waste Line - segment 2	Removal Action	Closed in RSWB Building OSC 7/20/6
8	426	Hot Waste Line - segment 5	Removal Action	OSC signed 9/27/05
8	427	Hot Waste Line - Segment 6	Removal Action	OSC signed 7/13/6
8	428	Hot Waste Line - Segment 7	Removal Action	OSC signed 7/13/6
8	429	Hot Waste Line - Segment 9	Removal Action	OSC signed 9/27/05
8	430	Hot Waste Line - Segment 9a	Removal Action	OSC signed 9/27/05
8	431	Hot Waste Line - Segment 10	Removal Action	OSC signed 9/27/05
8	432	Hot Waste Line - Segment 11	Removal Action	OSC signed 9/27/05
8	433	Hot Waste Line - Segment 12	Removal Action	OSC signed 9/27/05
8	434	Hot Waste Line - Segment 13a	Removal Action	OSC signed 9/27/05
8	435	Hot Waste Line - Segment 13b	Removal Action	OSC signed 9/27/05
8	436	Hot Waste Line - Segment 14	Removal Action	OSC signed 9/27/05
8	437	Hot Waste Line - Segment 3	Removal Action	Closed in RSWB Building OSC 7/20/6
8	438	Hot Waste Line - Segment 4	Removal Action	Closed in RSWB Building OSC 7/20/6
8	439	Hot Waste Line - Segment 4a	Removal Action	OSC signed 6/13/6
8	440	Hot Waste Line - Segment 8	Removal Action	Closed in RSWB Building OSC 7/20/6
OFFSITE	94	Main Hill Seep 604	Retired	1/24/2006

Table 2 - PRSs and Core Team Conclusions

Parcel	PRS	Description	Initial Core Team Decision	Closeout of PRS
OFFSITE	95	Main Hill Seep 605	Retired	1/24/2006
OFFSITE	96	Main Hill Seep 606	Retired	1/24/2006
OFFSITE	97	Main Hill Seep 607	Retired	1/24/2006
OFFSITE	98	Main Hill Seep 608	Retired	1/24/2006
OFFSITE	320	Dayton Unit 1	NFA	9/29/1997
OFFSITE	321	Dayton Unit 2	NFA	9/29/1997
OFFSITE	322	Dayton Unit 3	NFA	9/29/1997
OFFSITE	323	Dayton Unit 4	NFA	9/29/1997
OFFSITE	324	Dayton Warehouse	NFA	9/29/1997
OFFSITE	325	Marion Standby Facility	NFA	9/29/1997

NFA: No Further Action

PRS: Potential Release Site

OSC: On-Scene Coordinator Report

Table 3 - Transfer Buildings and Core Team Conclusions

Parcel	Building	Description	Core Team Decision	Closeout Action
6	28	Ceramic Production	NFA	Recommendation signed 7/23/03
	45	Health Physics Calibration Facility	NFA	Recommendation signed 5/5/2005
	OSE	Operations Support East	NFA	Recommendation signed 9/16/03
7	2	Energetic Materials Test Facility	NFA	Recommendation signed 2/19/97
	61	Warehouse (Logistical Support)	NFA	Recommendation signed 11/25/02
	63	Surveillance Facility	NFA	Recommendation signed 2/20/02
	126	Power System Technology Administration Building	NFA	Recommendation signed 9/22/04
8	COS	Central Operations Support	NFA	Recommendation signed 9/18/00
	OSW	Operations Support West	NFA	Recommendation signed 9/17/03
	T	Technical	Removal Action Complete	Recommendation signed 2/27/03

NFA: No Further Action

PRS: Potential Release Site

OSC: On-Scene Coordinator Report

Table 4 – Parcels 6, 7, and 8 Risk Summary

	Overall Risk Types	Total Non-Carcinogen Risk HI	Total Excess Lifetime Cancer Risk
Parcel 6			
Construction Worker	Total	NC	$3.5x10^{-5}$
	Background	NC	$2.0x10^{-5}$
	Incremental	NC	$1.5x10^{-5}$
Site Employee	Total	NC	$3.5x10^{-5}$
	Background	NC	$2.0x10^{-5}$
	Incremental	NC	$1.5x10^{-5}$
Parcel 7			
Construction Worker	Total	$8.6x10^{-3}$	$2.1x10^{-5}$
	Background	NC	$2.6x10^{-7}$
	Incremental	$8.6x10^{-3}$	$2.1x10^{-5}$
Site Employee	Total	$6.8x10^{-7}$	$1.7x10^{-5}$
	Background	NC	$1.1x10^{-8}$
	Incremental	$6.8x10^{-7}$	$1.7x10^{-5}$
Parcel 8			
Construction Worker	Total	0.17	$2.2x10^{-5}$
	Background	NC	$1.7x10^{-8}$
	Incremental	0.16	$2.2x10^{-5}$
Site Employee	Total	$1.8x10^{-10}$	$2.6x10^{-5}$
	Background	NC	$9.0x10^{-9}$
	Incremental	$1.8x10^{-10}$	$2.6x10^{-5}$

NA: not applicable

NC: not calculated due to the absence of toxicity data.

Table 5:

Identification of Constituents of Potential Concern for the Construction Worker Exposed to Surface and Subsurface Soil in Parcel 6

Analyte (SRC)	CAS Number	Minimum Concentration	Maximum Concentration	Detection Frequency	95% UCL	EPC	Background Value	RBGV	COPC?
Inorganics (mg/kg)									
Aluminum	7429-90-5	2.69E+03	1.47E+04	4/ 4	6.45E+05	1.47E+04	1.90E+04	1.69E+05	NO:2
Arsenic	7440-38-2	2.10E+00	5.30E+00	4/ 4	1.15E+01	5.30E+00	8.60E+00	2.26E+00	NO:2
Barium	7440-39-3	1.57E+01	4.54E+01	4/ 4	4.10E+02	4.54E+01	1.80E+02	1.25E+04	NO:2
Beryllium	7440-41-7	1.40E-01	8.60E-01	4/ 4	3.99E+01	8.60E-01	1.30E+00	3.70E+02	NO:2
Bismuth	7440-69-9	1.50E+00	1.50E+00	1/ 3	2.22E+01	1.50E+00	3.84E+01	---	NO:2
Cadmium	7440-43-9	3.00E-01	4.20E-01	3/ 5	1.02E+01	4.20E-01	2.10E+00	0.00E+00	NO:2
Calcium	7440-70-2	5.80E+04	2.17E+05	4/ 4	4.19E+06	2.17E+05	3.10E+05	---	NO:2
Chromium	**7440-47-3**	**5.40E+00**	**2.08E+01**	**5/ 5**	**2.61E+01**	**2.08E+01**	**2.00E+01**	---	**YES**
Cobalt	7440-48-4	3.00E+00	1.94E+01	4/ 4	2.39E+03	1.94E+01	1.90E+01	1.93E+03	NO:3
Copper	7440-50-8	1.06E+01	2.91E+01	4/ 4	1.11E+02	2.91E+01	2.60E+01	8.18E+03	NO:3
Iron	7439-89-6	6.51E+03	3.04E+04	4/ 4	5.92E+05	3.04E+04	3.50E+04	---	NO:2
Lead	7439-92-1	2.60E+00	2.67E+01	6/ 6	5.83E+01	2.67E+01	4.80E+01	---	NO:2
Lithium	**7439-93-2**	**1.03E+01**	**3.86E+01**	**4/ 4**	**2.56E+02**	**3.86E+01**	**0.00E+00**	---	**YES**
Magnesium	7439-95-4	1.05E+04	1.02E+05	4/ 4	8.61E+08	1.02E+05	4.00E+04	---	NO:5
Manganese	7439-96-5	2.64E+02	1.08E+03	4/ 4	8.39E+03	1.08E+03	1.40E+03	0.00E+00	NO:2
Mercury	7439-97-6	1.30E-01	1.30E-01	1/ 4	1.17E+03	1.30E-01	1.50E-01	5.78E+04	NO:2
Molybdenum	7439-98-7	5.10E-01	2.10E+00	2/ 3	7.96E+05	2.10E+00	2.72E+01	1.02E+03	NO:2
Nickel	7440-02-0	6.40E+00	3.46E+01	5/ 5	5.71E+01	3.46E+01	3.20E+01	4.09E+03	NO:3
Potassium	7440-09-7	5.55E+02	3.28E+03	4/ 4	1.52E+05	3.28E+03	1.90E+03	---	NO:5
Silver	7440-22-4	2.10E-01	2.10E-01	2/ 4	8.33E-01	2.10E-01	1.70E+00	1.02E+03	NO:2
Sodium	7440-23-5	2.16E+02	7.07E+02	4/ 4	5.65E+03	7.07E+02	2.40E+02	---	NO:5
Tin	7440-31-5	8.90E-01	1.20E+00	2/ 3	1.63E+01	1.20E+00	2.09E+01	1.23E+05	NO:2
Vanadium	7440-62-2	6.70E+00	1.97E+01	4/ 4	1.45E+02	1.97E+01	2.50E+01	2.04E+02	NO:2
Zinc	7440-66-6	2.71E+01	2.54E+02	4/ 4	1.23E+05	2.54E+02	1.40E+02	6.13E+04	NO:3
Semi-Volatile Organic Compounds (ug/kg)									
Acenaphthene	83-32-9	4.17E+01	3.37E+02	3/ 8	9.97E+02	3.37E+02	---	3.09E+06	NO:3
Anthracene	120-12-7	2.60E+01	9.28E+02	5/ 8	1.44E+03	9.28E+02	---	1.55E+07	NO:3
Benzo(a)anthracene	56-55-3	1.80E+01	1.64E+03	7/ 8	6.07E+03	1.64E+03	---	1.98E+03	NO:3
Benzo(a)pyrene	**50-32-8**	**2.30E+01**	**1.22E+03**	**6/ 8**	**1.96E+03**	**1.22E+03**	---	**1.98E+02**	**YES**
Benzo(b)fluoranthene	205-99-2	2.30E+01	1.89E+03	6/ 8	3.56E+03	1.89E+03	---	1.98E+03	NO:3
Benzo(g,h,i)perylene	**191-24-2**	**6.38E+01**	**8.55E+02**	**5/ 8**	**5.70E+02**	**5.70E+02**	---	**0.00E+00**	**YES**
Benzo(k)fluoranthene	207-08-9	2.30E+01	7.46E+02	6/ 8	8.79E+02	7.45E+02	---	1.98E+04	NO:3
Bis(2-ethylhexyl) phthalate	117-81-7	4.30E+01	5.80E+01	2/ 4	3.37E+04	5.80E+01	---	1.25E+05	NO:3
Chrysene	218-01-9	2.90E+01	3.01E+02	6/ 8	4.93E+02	3.01E+02	---	1.98E+05	NO:3
Dibenz(a,h)anthracene	**53-70-3**	**2.90E+01**	**2.18E+02**	**2/ 8**	**1.96E+03**	**2.18E+02**	---	**1.98E+02**	**YES**
Di-n-octyl Phthalate	117-84-0	1.70E+02	1.70E+02	1/ 4	2.17E+02	1.70E+02	---	8.18E+06	NO:3
Fluoranthene	206-44-0	4.60E+01	3.67E+03	7/ 8	1.27E+04	3.67E+03	---	2.06E+06	NO:3
Fluorene	86-73-7	4.60E+01	4.74E+02	3/ 8	1.15E+03	4.74E+02	---	2.06E+06	NO:3
Indeno(1,2,3-cd)pyrene	193-39-5	7.90E+01	9.77E+02	5/ 8	6.63E+02	6.63E+02	---	1.98E+03	NO:3
Phenanthrene	**85-01-8**	**2.50E+01**	**3.89E+03**	**7/ 8**	**3.21E+04**	**3.89E+03**	---	**0.00E+00**	**YES**
Pyrene	129-00-0	5.00E+01	4.56E+03	7/ 8	1.53E+04	4.56E+03	---	1.55E+06	NO:3
Volatile Organic Compounds (ug/kg)									
4-Methyl-2-pentanone	108-10-1	7.97E-01	7.97E-01	1/ 8	4.87E+03	7.97E-01	---	1.64E+07	NO:3
Acetone	67-64-1	1.10E+01	1.80E+01	3/ 8	4.50E+01	1.80E+01	---	1.84E+08	NO:3
Dichloromethane (Methylene Chloride)	75-09-2	6.00E+00	1.60E+01	4/ 8	2.37E+04	1.60E+01	---	7.63E+05	NO:3
Naphthalene	91-20-3	3.43E+01	3.43E+01	1/ 8	1.09E+03	3.43E+01	---	1.24E+06	NO:3
Tetrachloroethene	127-18-4	1.31E+00	1.30E+01	2/ 8	7.23E+02	1.30E+01	---	1.06E+04	NO:3
Toluene	108-88-3	5.41E-01	1.15E+00	4/ 9	9.56E+01	1.15E+00	---	2.00E+02	NO:3
Radionuclides (pCi/g)									
Actinium-227	14952-40-0(+D)	7.00E-02	1.10E-01	4/ 136	1.14E-01	1.10E-01	0.00E+00	5.02E-01	NO:1
Cesium-137	10045-97-3(+D)	2.00E-02	5.00E-01	79/ 148	5.82E-02	5.82E-02	4.20E-01	3.56E-01	NO:4
Cobalt-60	10198-40-0	3.00E-02	3.00E-02	1/ 146	2.18E-02	2.18E-02	0.00E+00	7.35E-02	NO:1
Lead-210	14255-04-0(+D)	1.50E-01	2.05E+00	102/ 145	6.23E-01	6.23E-01	1.20E+00	1.19E+00	NO:4
Plutonium-238	**13981-16-3**	**1.24E-02**	**4.10E+01**	**70/ 428**	**2.90E+01**	**2.90E+01**	**1.30E-01**	**1.13E+01**	**YES**
Plutonium-239/240	OER-100-70	3.70E-02	3.70E-02	1/ 9	7.16E-01	3.70E-02	1.80E-01	6.01E+00	NO:2
Potassium-40	13966-00-2	1.80E+01	2.31E+01	3/ 3	2.78E+01	2.31E+01	3.70E+01	1.12E+00	NO:2
Radium-226	13982-63-3(+D)	1.30E-01	3.53E+00	140/ 149	1.31E+00	1.31E+00	2.00E+00	1.05E-01	NO:4
Thorium-227	15623-47-9	1.80E-01	1.80E-01	1/ 2	0.00E+00	1.80E-01	0.00E+00	2.17E+00	NO:3
Thorium-228	14274-82-9(+D)	2.81E-01	9.00E-01	10/ 12	5.82E+01	9.00E-01	1.50E+00	1.14E-01	NO:2
Thorium-230 +D	**14269-63-7(+D)**	**3.28E-01**	**2.32E+00**	**12/ 150**	**2.76E+00**	**2.32E+00**	**1.90E+00**	**9.26E-02**	**YES**
Thorium-232	7440-29-1(+D)	4.00E-02	2.30E+00	157/ 452	1.12E+00	1.12E+00	1.40E+00	6.90E-02	NO:4
Tritium	10028-17-8p	1.87E-01	3.91E+00	4/ 4	3.33E+09	3.91E+00	1.60E+00	1.45E+04	NO:3
Uranium-233/234	13966-29-5	1.80E-01	6.70E-01	2/ 2	0.00E+00	6.70E-01	1.10E+00	5.52E-01	NO:2
Uranium-234	13966-29-5	2.31E-01	7.23E-01	5/ 5	1.37E+00	7.23E-01	1.10E+00	1.97E+01	NO:2
Uranium-235	15117-96-1(+D)	2.40E-02	4.75E-02	2/ 9	4.99E+01	4.75E-02	1.10E-01	1.55E+00	NO:2
Uranium-238	7440-61-1(+D)	2.32E-01	8.85E-01	8/ 11	3.51E+01	8.85E-01	1.20E+00	5.22E+00	NO:2

CAS - Chemical Abstract Service
COPC - Constituents of Potential Concern
EPC - Exposure Point Concentration
mg/kg - milligram per kilogram
ug/kg - microgram per kilogram
pCi/g - picocurie per gram
RBGV - Risk Based Guideline Value
UCL - Upper Confidence Limit

NO:1 - <5% Detects
NO:2 - Max<Background
NO:3 - Max< Risk Based Guideline Value
NO 4 - EPC< Background
NO:5 - Essential Human Nutrient

Bold text indicates COPCs selected

Lithium note: The RREM background value for lithium is 26 mg/kg and not 0.00 mg/kg as presented in this table. However, since the analyte would still become a COPC the value in the table was not modified.

Background values are base on the Operable Unit 9 Background Soils Investigation Chemistry Report (DOE 1994) or, in the case of nuclides with short half lives (Ac-227 Pb-210, and Pa-231) are based on the parent nuclide background and assumption of equilibrium with the parent nuclide.

- - - not applicable, not available, or not calculated due to insufficient toxicity data

Table 6:

Identification of Constituents of Potential Concern for a Site Employee Exposed to Surface Soil In Parcel 6

Analyte (SRC)	CAS Number	Minimum Concentration	Maximum Concentration	Detection Frequency	95% UCL	EPC	Background Value*	RBGV	COPC?
Inorganics (mg/kg)									
Aluminum	7429-90-5	2.69E+03	1.47E+04	4/ 4	6.45E+05	1.47E+04	1.90E+04	1.69E+05	NO:2
Arsenic	7440-38-2	2.10E+00	5.30E+00	4/ 4	1.15E+01	5.30E+00	8.60E+00	2.26E+00	NO:2
Barium	7440-39-3	1.57E+01	4.54E+01	4/ 4	4.10E+02	4.54E+01	1.80E+02	1.25E+04	NO:2
Beryllium	7440-41-7	1.40E-01	8.60E-01	4/ 4	3.99E+01	8.60E-01	1.30E+00	3.70E+02	NO:2
Bismuth	7440-69-9	1.50E+00	1.50E+00	1/ 3	2.22E+01	1.50E+00	3.84E+01	---	NO:2
Cadmium	7440-43-9	3.00E-01	4.20E-01	3/ 5	1.02E+01	4.20E-01	2.10E+00	---	NO:2
Calcium	7440-70-2	5.80E+04	2.17E+05	4/ 4	4.19E+06	2.17E+05	3.10E+05	---	NO:2
Chromium	**7440-47-3**	**5.40E+00**	**2.08E+01**	**5/ 5**	**2.61E+01**	**2.08E+01**	**2.00E+01**	---	**YES**
Cobalt	7440-48-4	3.00E+00	1.94E+01	4/ 4	2.39E+03	1.94E+01	1.90E+01	1.93E+03	NO:3
Copper	7440-50-8	1.06E+01	2.91E+01	4/ 4	1.11E+02	2.91E+01	2.60E+01	8.18E+03	NO:3
Iron	7439-89-6	6.51E+03	3.04E+04	4/ 4	5.92E+05	3.04E+04	3.50E+04	---	NO:2
Lead	7439-92-1	2.60E+00	2.67E+01	6/ 6	5.83E+01	2.67E+01	4.80E+01	---	NO:2
Lithium	**7439-93-2**	**1.03E+01**	**3.86E+01**	**4/ 4**	**2.56E+02**	**3.86E+01**	---	---	**YES**
Magnesium	7439-95-4	1.05E+04	1.02E+05	4/ 4	8.81E+08	1.02E+05	4.00E+04	---	NO:5
Manganese	7439-96-5	2.64E+02	1.08E+03	4/ 4	8.39E+03	1.08E+03	1.40E+03	---	NO:2
Mercury	7439-97-6	1.30E-01	1.30E-01	1/ 4	1.17E+03	1.30E-01	1.50E-01	5.78E+04	NO:2
Molybdenum	7439-98-7	5.10E-01	2.10E+00	2/ 3	7.96E+05	2.10E+00	2.72E+01	1.02E+03	NO:2
Nickel	7440-02-0	6.40E+00	3.46E+01	5/ 5	5.71E+01	3.46E+01	3.20E+01	4.09E+03	NO:3
Potassium	7440-09-7	5.55E+02	3.28E+03	4/ 4	1.52E+05	3.28E+03	1.90E+03	---	NO:5
Silver	7440-22-4	2.10E-01	2.10E-01	2/ 4	8.33E-01	2.10E-01	1.70E+00	1.02E+03	NO:2
Sodium	7440-23-5	2.16E+02	7.07E+02	4/ 4	5.65E+03	7.07E+02	2.40E+02	---	NO:5
Tin	7440-31-5	8.90E-01	1.20E+00	2/ 3	1.63E+01	1.20E+00	2.09E+01	1.23E+05	NO:2
Vanadium	7440-62-2	6.70E+00	1.97E+01	4/ 4	1.45E+02	1.97E+01	2.50E+01	2.04E+02	NO:2
Zinc	7440-66-6	27.1	254.0	4/ 4	123,000.0	254.0	140.0	61,320.0	NO:3
Semi-Volatile Organic Compounds (ug/kg)									
Acenaphthene	83-32-9	4.17E+01	3.37E+02	3/ 8	9.97E+02	3.37E+02	---	3.09E+06	NO:3
Anthracene	120-12-7	2.60E+01	9.28E+02	5/ 8	1.44E+03	9.28E+02	---	1.55E+07	NO:3
Benzo(a)anthracene	56-55-3	1.80E+01	1.64E+03	7/ 8	6.07E+03	1.64E+03	---	1.98E+03	NO:3
Benzo(a)pyrene	**50-32-8**	**2.30E+01**	**1.22E+03**	**6/ 8**	**1.96E+03**	**1.22E+03**	---	**1.98E+02**	**YES**
Benzo(b)fluoranthene	205-99-2	2.30E+01	1.89E+03	6/ 8	3.56E+03	1.89E+03	---	1.98E+03	NO:3
Benzo(g,h,i)perylene	**191-24-2**	**6.38E+01**	**8.55E+02**	**5/ 8**	**5.70E+02**	**5.70E+02**	---	---	**YES**
Benzo(k)fluoranthene	207-08-9	2.30E+01	7.45E+02	6/ 8	8.79E+02	7.45E+02	---	1.98E+04	NO:3
Bis(2-ethylhexyl) phthalate	117-81-7	4.30E+01	5.80E+01	2/ 4	3.37E+04	5.80E+01	---	1.25E+05	NO:3
Chrysene	218-01-9	2.90E+01	3.01E+02	6/ 8	4.93E+02	3.01E+02	---	1.98E+05	NO:3
Dibenz(a,h)anthracene	**53-70-3**	**2.90E+01**	**2.18E+02**	**2/ 8**	**1.96E+03**	**2.18E+02**	---	**1.98E+02**	**YES**
Di-n-octyl Phthalate	117-84-0	1.70E+02	1.70E+02	1/ 4	2.17E+02	1.70E+02	---	8.18E+06	NO:3
Fluoranthene	206-44-0	4.50E+01	3.67E+03	7/ 8	1.27E+04	3.67E+03	---	2.06E+06	NO:3
Fluorene	86-73-7	4.60E+01	4.74E+02	3/ 8	1.15E+03	4.74E+02	---	2.06E+06	NO:3
Indeno(1,2,3-cd)pyrene	193-39-5	7.90E+01	9.77E+02	5/ 8	6.63E+02	6.63E+02	---	1.98E+03	NO:3
Phenanthrene	**85-01-8**	**2.50E+01**	**3.89E+03**	**7/ 8**	**3.21E+04**	**3.89E+03**	---	---	**YES**
Pyrene	129-00-0	5.00E+01	4.56E+03	7/ 8	1.53E+04	4.56E+03	---	1.55E+06	NO:3
Volatile Organic Compounds (ug/kg)									
4-Methyl-2-pentanone	108-10-1	7.97E-01	7.97E-01	1/ 8	4.87E+03	7.97E-01	#REF!	1.64E+07	NO:3
Acetone	67-64-1	1.10E+01	1.80E+01	3/ 8	4.50E+01	1.80E+01	#REF!	1.84E+08	NO:3
Dichloromethane (Methylene C	75-09-2	6.00E+00	1.60E+01	4/ 8	2.37E+04	1.60E+01	#REF!	7.63E+05	NO:3
Naphthalene	91-20-3	3.43E+01	3.43E+01	1/ 8	1.09E+03	3.43E+01	#REF!	1.24E+06	NO:3
Tetrachloroethene	127-18-4	1.31E+00	1.30E+01	2/ 8	7.23E+02	1.30E+01	#REF!	1.06E+04	NO:3
Toluene	108-88-3	5.41E-01	1.15E+00	4/ 9	9.56E+01	1.15E+00	#REF!	4.09E+07	NO:3
Radionuclides (pCi/g)									
Actinium-227	14952-40-0(+D)	7.00E-02	1.10E-01	4/ 136	1.14E-01	1.10E-01	1.10E-01	5.02E-01	NO:1
Cesium-137	10045-97-3(+D)	2.00E-02	5.00E-01	79/ 148	5.82E-02	5.82E-02	4.20E-01	3.56E-01	NO:4
Cobalt-60	10198-40-0	3.00E-02	3.00E-02	1/ 146	2.18E-02	2.18E-02	---	7.35E-02	NO:1
Lead-210	14255-04-0(+D)	1.50E-01	2.05E+00	102/ 145	6.23E-01	6.23E-01	1.20E+00	1.19E+00	NO:4
Plutonium-238	**13981-16-3**	**1.24E-02**	**4.10E+01**	**70/ 428**	**2.90E+01**	**2.90E+01**	**1.30E-01**	**1.13E+01**	**YES**
Plutonium-239/240	OER-100-70	3.70E-02	3.70E-02	1/ 9	7.16E-01	3.70E-02	1.80E-01	---	NO:2
Potassium-40	13966-00-2	1.80E+01	2.31E+01	3/ 3	2.78E+01	2.31E+01	3.70E+01	1.12E+00	NO:2
Radium-226	13982-63-3(+D)	1.30E-01	3.53E+00	140/ 149	1.31E+00	1.31E+00	2.00E+00	1.05E-01	NO:4
Thorium-227	15623-47-9	1.80E-01	1.80E-01	1/ 2	---	1.80E-01	---	2.17E+00	NO:3
Thorium-228	14274-82-9(+D)	2.81E-01	9.00E-01	10/ 12	5.82E+01	9.00E-01	1.50E+00	1.14E-01	NO:2
Thorium-230 +D	**14269-63-7(+D)**	**3.28E-01**	**2.32E+00**	**12/ 150**	**2.76E+00**	**2.32E+00**	**1.90E+00**	**5.86E-01**	**YES**
Thorium-232	7440-29-1(+D)	4.00E-02	2.30E+00	157/ 452	1.12E+00	1.12E+00	1.40E+00	---	NO:4
Tritium	10028-17-8p	1.87E-01	3.91E+00	4/ 4	3.33E+09	3.91E+00	1.60E+00	1.45E+04	NO:3
Uranium-233/234	13966-29-5	1.80E-01	6.70E-01	2/ 2	---	6.70E-01	1.10E+00	5.52E-01	NO:2
Uranium-234	13966-29-5	2.31E-01	7.23E-01	5/ 5	1.37E+00	7.23E-01	1.10E+00	1.97E+01	NO:2
Uranium-235	15117-96-1(+D)	2.40E-02	4.75E-02	2/ 9	4.99E+01	4.75E-02	1.10E-01	1.55E+00	NO:2
Uranium-238	7440-61-1(+D)	2.32E-01	8.85E-01	10/ 11	3.51E+01	8.85E-01	1.20E+00	5.22E+00	NO:2

CAS - Chemical Abstract Service
COPC - Constituents of Potential Concern
EPC - Exposure Point Concentration
mg/kg - milligram per kilogram
ug/kg - microgram per kilogram
pCi/g - picocurie per gram
RBGV - Risk Based Guideline Value
UCL - Upper Confidence Limit
--- - not applicable, not available, or not calculated due to insufficient toxicity data

NO:1 - <5% Detects
NO:2 - Max<Background
NO:3 - Max< Risk Based Guideline Value
NO:4 - EPC< Background
NO:5 - Essential Human Nutrient

Bold text indicates COPCs selected

Background values are base on the Operable Unit 9 Background Soils Investigation Chemistry Report (DOE 1994) or, in the case of nuclides with short half lives (Ac-227 Pb-210, and Pa-231) are based on the parent nuclide background and assumption of equilibrium with the parent nuclide.

Table 7:

Identification of Constituents of Potential Concern for the Construction Worker Exposed to Surface and Subsurface Soil in MCP Parcel 7

Analyte (SRC)	CAS Number	Minimum Concentration	Maximum Concentration	Detection Frequency	95% UCL	EPC	Background Value	10^{-4} RBGV	COPC?
Inorganics (mg/kg)									
Aluminum	7429-90-5	7.45E+01	3.03E+05	491/ 492	1.30E+04	1.30E+04	1.90E+04	2.08E+04	NO:4
Antimony	7440-36-0	1.90E-01	3.37E+01	122/ 476	7.23E-01	7.23E-01	---	8.52E+00	YES
Arsenic	7440-38-2	1.00E+00	1.46E+01	493/ 529	5.59E+00	5.59E+00	8.60E+00	1.85E+00	NO:4
Barium	7440-39-3	1.90E-01	5.64E+02	497/ 527	6.36E+01	6.36E+01	1.80E+02	1.47E+03	NO:3
Beryllium	7440-41-7	9.00E-02	1.80E+00	463/ 493	6.46E-01	6.46E-01	1.30E+00	4.21E+01	NO:3
Bismuth	7440-69-9	4.60E-01	1.41E+02	37/ 134	1.76E+01	1.76E+01	3.84E+01	---	NO:4
Cadmium	7440-43-9	4.00E-02	7.30E+00	341/ 507	4.49E-01	4.49E-01	2.10E+00	---	NO:4
Calcium	7440-70-2	1.19E+03	3.09E+05	499/ 522	1.98E+05	1.98E+05	3.10E+05	---	NO:2
Cerium	7440-45-1	1.27E+01	7.41E+01	21/ 38	3.31E+01	3.31E+01	---	3.85E+04	NO:3
Chromium	7440-47-3	1.00E-01	7.57E+01	492/ 520	1.61E+01	1.61E+01	2.00E+01	---	NO:4
Cobalt	7440-48-4	6.00E-02	2.89E+01	480/ 516	8.66E+00	8.66E+00	1.90E+01	3.83E+02	NO:3
Copper	7440-50-8	1.00E-01	4.30E+02	494/ 516	1.73E+01	1.73E+01	2.60E+01	8.52E+02	NO:3
Cyanide	57-12-5	1.10E-01	3.14E+01	14/ 184	5.90E-01	5.90E-01	---	4.26E+02	NO:3
Dysprosium	7429-91-6	2.40E+00	5.90E+00	10/ 25	3.05E+00	3.05E+00	---	---	YES
Erbium	7440-52-0	6.60E+00	7.90E+00	6/ 38	4.78E+00	4.78E+00	---	---	YES
Europium	7440-53-1	8.80E-01	2.00E+00	16/ 24	1.31E+00	1.31E+00	---	---	YES
Gadolinium	7440-54-2	7.10E+00	8.83E+01	9/ 38	1.95E+01	1.95E+01	---	---	YES
Holmium	7440-60-0	2.20E+00	2.40E+00	2/ 38	1.47E+00	1.47E+00	---	---	YES
Iron	7439-89-6	1.42E+02	1.28E+05	501/ 523	5.19E+04	5.19E+04	3.50E+04	---	NO:5
Lanthanum	7439-91-0	5.50E+00	1.57E+01	10/ 38	9.59E+00	9.59E+00	---	---	YES
Lead	7439-92-1	1.30E+00	8.83E+01	502/ 532	1.19E+01	1.19E+01	4.80E+01	---	NO:4
Lithium	7439-93-2	1.40E-01	4.96E+01	410/ 446	2.25E+01	2.25E+01	---	---	YES
Lutetium	7439-94-3	5.00E-01	9.20E-01	4/ 24	3.87E-01	3.87E-01	---	---	YES
Magnesium	7439-95-4	4.22E+01	1.46E+05	501/ 523	4.08E+04	4.08E+04	4.00E+04	---	NO:5
Manganese	7439-96-5	9.50E+00	1.79E+03	488/ 510	8.95E+02	8.95E+02	1.40E+03	---	NO:4
Mercury	7439-97-6	1.00E-02	2.60E+00	157/ 515	5.56E-02	5.56E-02	1.50E-01	5.78E+04	NO:3
Molybdenum	7439-98-7	1.90E-01	1.08E+01	57/ 117	2.47E+00	2.47E+00	2.72E+01	1.06E+02	NO:2
Neodymium	7440-00-8	1.32E+01	4.61E+01	31/ 38	2.44E+01	2.44E+01	---	---	YES
Nickel	7440-02-0	1.10E-01	5.67E+01	485/ 517	1.84E+01	1.84E+01	3.20E+01	4.26E+02	NO:3
Potassium	7440-09-7	2.26E+01	6.49E+03	483/ 500	2.89E+03	2.89E+03	1.90E+03	---	NO:5
Praseodymium	7440-10-0	7.30E+00	1.21E+02	7/ 38	2.34E+01	2.34E+01	---	---	YES
ıarium	7440-19-9	1.81E+01	2.04E+01	3/ 38	1.19E+01	1.19E+01	---	---	YES
.nium	7782-49-2	2.40E-01	1.20E+00	60/ 494	3.17E-01	3.17E-01	5.90E-01	1.06E+02	NO:3
.er	7440-22-4	7.00E-02	1.85E+01	93/ 507	5.45E-01	5.45E-01	1.70E+00	1.06E+02	NO:3
ɔdium	7440-23-5	2.40E+00	4.08E+03	483/ 523	4.36E+02	4.36E+02	2.40E+02	---	NO:5
antalum	7440-25-7	2.01E+02	4.59E+02	7/ 31	1.41E+03	4.59E+02	---	---	YES
Terbium	7440-27-9	1.37E+01	1.49E+01	2/ 38	8.54E+00	8.54E+00	---	---	YES
Thallium	7440-28-0	1.70E-01	1.30E+00	54/ 517	3.36E-01	3.36E-01	4.60E-01	1.41E+00	NO:3
Tin	7440-31-5	6.40E-01	6.30E+00	38/ 141	3.40E+00	3.40E+00	2.09E+01	1.28E+04	NO:2
Vanadium	7440-62-2	9.00E-02	5.57E+01	491/ 516	1.99E+01	1.99E+01	2.50E+01	2.13E+01	NO:4
Ytterbium	7440-64-4	3.30E+00	3.90E+00	4/ 38	2.48E+00	2.48E+00	---	---	YES
Zinc	7440-66-6	4.70E-01	3.49E+03	498/ 520	6.79E+01	6.79E+01	1.40E+02	6.39E+03	NO:3
Explosives (ug/kg)									
2,6-Dinitrotoluene	606-20-2	5.00E+02	5.00E+02	1/ 516	2.20E+02	2.20E+02	---	3.54E+03	NO:1
HMX	2691-41-0	2.40E+02	2.40E+02	2/ 84	1.36E+03	2.40E+02	---	1.06E+06	NO:1
RDX	121-82-4	1.90E+02	1.90E+02	1/ 83	1.00E+03	1.90E+02	---	2.71E+04	NO:1
Pesticides and/or PCBs (ug/kg)									
4,4'-DDD	72-54-8	1.40E-01	1.40E-01	1/ 389	3.90E+00	1.40E-01	---	1.24E+04	NO:1
4,4'-DDE	72-55-9	7.90E-02	5.60E+00	6/ 389	3.64E+00	3.64E+00	---	8.77E+03	NO:1
4,4'-DDT	50-29-3	2.90E-01	7.90E+00	5/ 389	3.88E+00	3.88E+00	---	8.12E+03	NO:1
Aldrin	309-00-2	1.70E-01	2.20E-01	3/ 389	1.83E+00	2.20E-01	---	1.42E+02	NO:1
Alpha Chlordane	5103-71-9	1.00E-01	4.20E+01	9/ 367	7.83E+00	7.83E+00	---	7.61E+03	NO:1
Alpha-BHC	319-84-6	8.80E-01	3.00E+00	2/ 389	1.84E+00	1.84E+00	---	4.73E+02	NO:1
Aroclor-1248	12672-29-6	4.10E+01	1.70E+03	7/ 390	3.14E+01	3.14E+01	---	---	NO:1
Aroclor-1254	11097-69-1	1.40E+01	2.00E+02	10/ 390	4.05E+01	4.05E+01	---	3.20E+02	NO:1
Aroclor-1260	11096-82-5	4.00E+01	9.60E+01	3/ 390	3.94E+01	3.94E+01	---	---	NO:1
Beta-BHC	319-85-7	1.20E+01	1.20E+01	1/ 374	1.63E+00	1.63E+00	---	1.66E+03	NO:1
Chlordane	57-74-9	1.80E+01	4.00E+01	2/ 17	1.03E+01	4.00E+01	---	7.61E+03	NO:3
Delta-BHC	319-86-8	1.90E-01	1.50E+00	2/ 388	2.01E+00	1.50E+00	---	---	NO:1
Dieldrin	60-57-1	1.70E-01	7.90E-01	3/ 388	3.67E+00	7.90E-01	---	1.86E+02	NO:1
Endosulfan I	959-98-8	1.40E+00	1.70E+01	3/ 389	2.18E+00	2.18E+00	---	---	NO:1
Endosulfan II	33213-65-9	1.50E-01	2.50E+00	2/ 389	3.56E+00	2.50E+00	---	---	NO:1
Endosulfan Sulfate	1031-07-8	7.30E-01	7.30E-01	1/ 388	4.68E+00	7.30E-01	---	---	NO:1
Endrin	72-20-8	1.60E-01	1.30E+00	5/ 389	3.62E+00	1.30E+00	---	6.39E+03	NO:1
Endrin Aldehyde	7421-93-4	5.20E-01	8.40E-01	3/ 342	2.49E+00	8.40E-01	---	---	NO:1
Endrin Ketone	53494-70-5	1.00E-01	2.00E+01	4/ 388	4.71E+00	4.71E+00	---	---	NO:1
Gamma Chlordane	5103-74-2	6.60E-02	5.00E+01	14/ 372	7.84E+00	7.84E+00	---	7.61E+03	NO:1
Heptachlor	76-44-8	9.30E-02	2.90E+00	4/ 389	1.83E+00	1.83E+00	---	6.62E+02	NO:1
ıchlor Epoxide	1024-57-3	5.60E-01	5.60E-01	1/ 389	2.80E+00	5.60E-01	---	2.77E+02	NO:1
.xychlor	72-43-5	7.80E-01	1.12E+01	4/ 388	2.15E+01	1.12E+01	---	1.06E+05	NO:1
ımi-Volatile Organic Compounds (ug/kg)									
2-Dichlorobenzene	95-50-1	1.30E+01	1.30E+01	1/ 520	2.31E+02	1.30E+01	---	1.55E+06	NO:1
2,4,6-Tribromophenol	118-79-6	1.70E+03	1.70E+03	1/ 1	---	1.70E+03	---	---	YES
2-Fluorobiphenyl	321-60-8	1.40E+03	1.40E+03	1/ 1	---	1.40E+03	---	---	YES
2-Fluorophenol	367-12-4	1.90E+03	1.90E+03	1/ 1	---	1.90E+03	---	---	YES
2-Methylnaphthalene	91-57-6	2.00E+01	2.70E+03	28/ 517	2.28E+02	2.28E+02	---	8.52E+04	NO:3

Table 7:

Identification of Constituents of Potential Concern for the Construction Worker Exposed to Surface and Subsurface Soil in MCP Parcel 7

Analyte (SRC)	CAS Number	Minimum Concentration	Maximum Concentration	Detection Frequency	95% UCL	EPC	Background Value	10^{-6} RBGV	COPC?
4-Nitroaniline	100-01-6	9.20E+02	9.20E+02	1/ 515	6.63E+02	6.63E+02	---	5.16E+04	NO:1
Acenaphthene	83-32-9	1.90E+01	2.80E+03	59/ 517	2.32E+02	2.32E+02	---	9.76E+05	NO:3
Acenaphthylene	208-96-8	2.40E+01	6.10E+02	14/ 517	2.24E+02	2.24E+02	---	---	NO:1
Anthracene	120-12-7	1.80E+01	4.90E+03	88/ 517	2.39E+02	2.39E+02	---	4.88E+06	NO:3
Benzo(a)anthracene	**56-55-3**	**1.70E+01**	**5.70E+03**	**143/ 517**	**2.57E+02**	**2.57E+02**	**---**	**3.12E+03**	**YES**
Benzo(a)pyrene	**50-32-8**	**2.20E+01**	**5.10E+03**	**135/ 518**	**2.53E+02**	**2.53E+02**	**---**	**3.12E+02**	**YES**
Benzo(b)fluoranthene	**205-99-2**	**1.70E+01**	**5.00E+03**	**140/ 517**	**2.50E+02**	**2.50E+02**	**---**	**3.12E+03**	**YES**
Benzo(g,h,I)perylene	**191-24-2**	**1.30E+01**	**3.50E+03**	**113/ 517**	**2.38E+02**	**2.38E+02**	**---**	**---**	**YES**
Benzo(k)fluoranthene	207-08-9	2.00E+01	4.80E+03	132/ 517	2.58E+02	2.58E+02	---	3.12E+04	NO:3
Benzoic Acid	65-85-0	4.60E+01	1.80E+02	13/ 138	1.63E+03	1.80E+02	---	6.88E+07	NO:3
Bis(2-ethylhexyl)phthalate	117-81-7	1.90E+01	1.20E+04	188/ 515	2.50E+02	2.50E+02	---	1.72E+05	NO:3
Butyl Benzyl Phthalate	85-68-7	5.80E+01	1.00E+03	13/ 515	2.29E+02	2.29E+02	---	3.44E+06	NO:1
Carbazole	86-74-8	1.90E+01	1.50E+03	52/ 467	2.07E+02	2.07E+02	---	1.20E+05	NO:3
Chrysene	218-01-9	1.90E+01	6.30E+03	148/ 517	2.62E+02	2.62E+02	---	3.12E+05	NO:3
Di-n-butyl Phthalate	84-74-2	1.90E+01	5.30E+03	115/ 515	2.41E+02	2.41E+02	---	1.72E+06	NO:3
Di-n-octyl Phthalate	117-84-0	2.20E+01	8.20E+01	12/ 515	2.23E+02	8.20E+01	---	8.52E+05	NO:1
Dibenz(a,h)anthracene	**53-70-3**	**2.00E+01**	**9.30E+02**	**46/ 517**	**2.24E+02**	**2.24E+02**	**---**	**3.12E+02**	**YES**
Dibenzofuran	132-64-9	1.80E+01	9.90E+02	39/ 517	2.25E+02	2.25E+02	---	3.44E+04	NO:3
Diethyl Phthalate	84-66-2	1.20E+01	1.60E+03	23/ 515	2.25E+02	2.25E+02	---	1.38E+07	NO:1
Dimethyl Phthalate	131-11-3	3.90E+02	3.90E+02	1/ 515	2.24E+02	2.24E+02	---	2.13E+08	NO:1
Fluoranthene	206-44-0	2.00E+01	1.50E+04	184/ 516	3.23E+02	3.23E+02	---	6.51E+05	NO:3
Fluorene	86-73-7	1.90E+01	4.50E+03	51/ 517	2.32E+02	2.32E+02	---	6.51E+05	NO:3
Hexachlorobenzene	118-74-1	7.40E+02	7.40E+02	1/ 519	2.24E+02	2.24E+02	---	1.51E+03	NO:1
Hexachlorobutadiene	87-68-3	7.40E+02	7.40E+02	1/ 519	2.24E+02	2.24E+02	---	5.16E+03	NO:1
Hexachlorocyclopentadiene	77-47-4	7.40E+02	7.40E+02	1/ 515	2.24E+02	2.24E+02	---	1.03E+05	NO:1
Hexachloroethane	67-72-1	7.40E+02	7.40E+02	1/ 519	2.24E+02	2.24E+02	---	1.72E+04	NO:1
Indeno(1,2,3-cd)pyrene	193-39-5	1.70E+01	3.10E+03	103/ 515	2.36E+02	2.36E+02	---	3.12E+03	NO:3
Isophorone	78-59-1	1.30E+01	4.80E+01	4/ 515	2.25E+02	4.80E+01	---	2.54E+06	NO:1
N-Nitrosodiphenylamine	86-30-6	2.80E+02	2.80E+02	1/ 515	2.22E+02	2.22E+02	---	3.44E+05	NO:1
Nitrobenzene-d5	**4165-60-0**	**1.30E+03**	**1.30E+03**	**1/ 1**	**---**	**1.30E+03**	**---**	**---**	**YES**
P-Terphenyl-d14	**1718-51-0**	**1.40E+03**	**1.40E+03**	**1/ 1**	**---**	**1.40E+03**	**---**	**---**	**YES**
Pentachlorophenol	87-86-5	9.40E+01	9.40E+01	1/ 518	6.62E+02	9.40E+01	---	1.56E+04	NO:1
Phenanthrene	**85-01-8**	**1.80E+01**	**1.20E+04**	**176/ 517**	**2.99E+02**	**2.99E+02**	**---**	**---**	**YES**
enol	108-95-2	2.00E+01	1.50E+02	7/ 514	2.25E+02	1.50E+02	---	5.16E+06	NO:1
nol-d5	**4165-62-2**	**1.90E+03**	**1.90E+03**	**1/ 1**	**---**	**1.90E+03**	**---**	**---**	**YES**
yrene	129-00-0	1.80E+01	2.10E+04	187/ 516	3.18E+02	3.18E+02	---	4.88E+05	NO:3
Volatile Organic Compounds (ug/kg)									
1,1,1-Trichloroethane	71-55-6	1.00E+00	8.00E+00	8/ 969	3.65E+00	3.65E+00	---	6.84E+05	NO:1
1,1,2,2-Tetrachloroethane	79-34-5	6.00E-01	3.00E+00	4/ 968	3.64E+00	3.00E+00	---	3.50E+03	NO:1
1,1,2-Trichloroethane	79-00-5	1.00E+00	1.00E+00	2/ 968	3.64E+00	1.00E+00	---	8.19E+03	NO:1
1,1-Dichloroethane	75-34-3	6.00E+00	6.00E+00	1/ 969	3.65E+00	3.65E+00	---	1.93E+05	NO:1
1,1-Dichloroethene	75-35-4	3.00E+00	5.30E+01	4/ 973	3.69E+00	3.69E+00	---	4.20E+04	NO:1
1,2-Dichloroethane	107-06-2	2.00E+00	2.00E+00	1/ 973	3.65E+00	2.00E+00	---	3.45E+03	NO:1
1,2-Dichloroethene	540-59-0	9.00E-02	1.10E+04	50/ 962	5.36E+00	5.36E+00	---	1.92E+05	NO:3
1,2-Dichloropropane	78-87-5	1.00E+00	2.00E+00	2/ 969	3.64E+00	2.00E+00	---	2.08E+03	NO:1
1,2-Diethylbenzene	135-01-3	1.30E+01	1.30E+01	1/ 398	5.42E+00	5.42E+00	---	---	NO:1
1,2-cis-Dichloroethene (DCE)	156-59-2	2.00E+01	3.20E+03	15/ 28	1.59E+04	3.20E+03	---	2.13E+05	NO:3
1,3-Dichlorobenzene	541-73-1	1.00E+00	1.60E+01	2/ 520	2.34E+02	1.60E+01	---	5.16E+05	NO:1
1,3-cis-Dichloropropene	10061-01-5	8.00E-01	8.00E-01	1/ 762	3.76E+00	8.00E-01	---	---	NO:1
1,3-trans-Dichloropropene	10061-02-6	9.00E-01	9.00E-01	1/ 969	3.64E+00	9.00E-01	---	---	NO:1
1,4-Dichlorobenzene	106-46-7	1.30E+01	7.90E+01	3/ 524	2.28E+02	7.90E+01	---	1.00E+05	NO:1
2-Butanone	78-93-3	1.00E+00	2.50E+02	214/ 972	7.71E+00	7.71E+00	---	6.65E+06	NO:3
2-Hexanone	591-78-6	2.00E+00	1.30E+01	8/ 970	6.48E+00	6.48E+00	---	---	NO:1
4-Methyl-2-pentanone	108-10-1	8.00E-01	2.00E+01	20/ 970	6.51E+00	6.51E+00	---	1.47E+06	NO:1
Acetone	67-64-1	2.00E+00	3.40E+04	532/ 968	2.17E+01	2.17E+01	---	1.92E+07	NO:3
Acetonitrile	75-05-8	3.20E+01	1.20E+02	3/ 387	6.63E+01	6.63E+01	---	2.00E+05	NO:1
Acrylonitrile	107-13-1	4.00E+00	1.30E+01	3/ 399	6.73E+01	1.30E+01	---	1.82E+03	NO:1
Benzene	71-43-2	6.00E-01	9.00E+00	12/ 974	3.62E+00	3.62E+00	---	6.46E+03	NO:1
Bromodichloromethane	75-27-4	6.00E-01	6.00E-01	1/ 969	3.64E+00	6.00E-01	---	4.81E+04	NO:1
Bromoform	75-25-2	8.00E-01	1.00E+00	2/ 969	3.64E+00	1.00E+00	---	3.77E+05	NO:1
Carbon Disulfide	75-15-0	1.00E+00	3.70E+01	88/ 969	3.66E+00	3.66E+00	---	1.16E+05	NO:3
Carbon Tetrachloride	56-23-5	1.00E+00	2.00E+00	4/ 973	3.64E+00	2.00E+00	---	2.44E+03	NO:1
Chlorobenzene	108-90-7	5.00E-01	5.30E+03	15/ 974	3.83E+00	3.83E+00	---	4.85E+04	NO:1
Chloromethane	74-87-3	4.00E-01	1.10E+01	2/ 763	6.56E+00	6.56E+00	---	1.59E+04	NO:1
Dibromochloromethane	124-48-1	7.00E-01	7.00E-01	1/ 969	3.64E+00	7.00E-01	---	3.55E+04	NO:1
Dichloromethane (Methylene Chloride)	75-09-2	1.00E+00	3.00E+04	756/ 970	2.31E+01	2.31E+01	---	8.25E+04	NO:3
Ethylbenzene	100-41-4	1.00E+00	2.80E+02	18/ 971	3.62E+00	3.62E+00	---	7.80E+04	NO:1
FREON-113	76-13-1	3.00E+00	2.10E+01	4/ 572	3.73E+00	3.73E+00	---	6.93E+06	NO:1
Hexane	110-54-3	1.00E+00	4.20E+01	71/ 566	5.42E+00	5.42E+00	---	4.08E+04	NO:3
Isopropyl Benzene	98-82-8	2.00E+00	2.00E+00	1/ 5	7.08E+01	2.00E+00	---	5.28E+04	NO:3
Methyl Cyclohexane	**108-87-2**	**5.00E+00**	**6.00E+00**	**2/ 5**	**6.19E+00**	**6.00E+00**	**---**	**---**	**YES**
Naphthalene	91-20-3	2.40E+01	1.90E+03	26/ 517	2.25E+02	2.25E+02	---	3.44E+05	NO:3
ne	100-42-5	1.00E-01	2.80E+01	16/ 969	3.62E+00	3.62E+00	---	1.46E+06	NO:1
achloroethene (PCE)	127-18-4	5.00E-01	8.00E+00	24/ 973	3.62E+00	3.62E+00	---	3.66E+03	NO:1
luene	108-88-3	3.00E-01	3.20E+01	144/ 971	3.51E+00	3.51E+00	---	2.00E+05	NO:3
richloroethylene (TCE)	**79-01-6**	**8.00E-01**	**2.30E+04**	**81/ 996**	**5.54E+00**	**5.54E+00**	**---**	**4.38E+02**	**YES**
Trichloromethane (Cholorform)	67-66-3	4.00E-01	6.70E+01	15/ 972	3.69E+00	3.69E+00	---	2.56E+03	NO:1
Vinyl Chloride	75-01-4	1.00E+00	4.40E+02	22/ 996	7.71E+00	7.71E+00	---	1.07E+03	NO:1
Xylenes, Total	1330-20-7	5.00E-01	2.70E+02	35/ 971	3.72E+00	3.72E+00	---	6.42E+04	NO:1

Table 7:

Identification of Constituents of Potential Concern for the Construction Worker Exposed to Surface and Subsurface Soil in MCP Parcel 7

Analyte (SRC)	CAS Number	Minimum Concentration	Maximum Concentration	Detection Frequency	95% UCL	EPC	Background Value	10^{-6} RBGV	COPC?
Radionuclides (pCi/g)									
Actinium-227	**14952-40-0(+D)**	**6.00E-02**	**3.10E+00**	**177/1914**	**2.12E-01**	**2.12E-01**	**1.10E-01**	**4.56E-01**	**YES**
Actinium-228	14331-83-0	3.00E-01	1.83E+00	87/ 87	1.02E+00	1.02E+00	---	2.17E-01	NO:6
Americium-241	14596-10-2	2.00E-02	2.60E+00	103/2540	7.14E-02	7.14E-02	---	6.32E+00	NO:1
Bismuth-207	13982-38-2	1.00E-02	2.00E-01	14/ 623	3.24E-02	3.24E-02	---	1.39E-01	NO:1
Bismuth-210	14331-79-4	1.00E-02	1.00E-01	7/ 148	5.11E-02	5.11E-02	---	5.52E+01	NO:1
Bismuth-210M	BI-210M	4.70E-02	4.70E-02	1/ 581	4.20E-02	4.20E-02	---	---	NO:1
Bismuth-212	14913-49-6	6.60E-01	1.74E+00	18/ 18	1.09E+00	1.74E+00	---	1.11E+00	NO:6
Bismuth-214	14733-03-0	2.20E-01	1.40E+00	89/ 89	6.92E-01	6.92E-01	1.20E+00	1.31E-01	NO:6
Cerium-141	13967-74-3	1.61E+00	1.61E+00	1/ 1	---	1.61E+00	---	4.18E+00	NO:3
Cerium-144	14762-78-8	5.12E-01	5.12E-01	1/ 1	---	5.12E-01	---	8.91E+00	NO:3
Cerium-144/Praseodymium	14762-78-8(+D)	1.02E+00	1.02E+00	1/ 1	---	1.02E+00	---	3.23E+00	NO:3
Cesium-137	10045-97-3(+D)	1.00E-02	3.10E+01	545/2614	5.21E-02	5.21E-02	4.20E-01	3.82E-01	NO:4
Cobalt-60	10198-40-0	1.00E-02	9.19E-02	80/2514	3.22E-02	3.22E-02	---	7.91E-02	NO:1
Lead-210	14255-04-0	1.40E-01	3.97E+00	770/1932	6.48E-01	6.48E-01	1.20E+00	9.05E-01	NO:6
Lead-212	15092-94-1	8.50E-02	2.42E+00	204/ 204	8.46E-01	8.46E-01	---	1.79E+00	NO:6
Lead-214	15067-28-4	1.33E-01	1.66E+00	191/ 191	8.06E-01	8.06E-01	1.20E+00	1.00E+00	NO:6
Plutonium-238	**13981-16-3**	**3.10E-03**	**4.94E+02**	**2083/5827**	**5.94E+01**	**5.94E+01**	**1.30E-01**	**6.12E+00**	**YES**
Plutonium-239	15117-48-3	2.20E-02	3.20E-02	3/ 5	1.42E-01	3.20E-02	---	6.03E+00	NO:3
Plutonium-239/240	OER-100-70	1.60E-03	7.26E+00	422/1303	3.59E-02	3.59E-02	1.80E-01	---	NO:4
Plutonium-242	13982-10-0	4.26E-03	8.48E-03	2/ 6	1.03E-02	8.48E-03	---	6.33E+00	NO:3
Potassium-40	13966-00-2	1.15E+00	4.26E+01	720/ 749	2.28E+01	2.28E+01	3.70E+01	1.18E+00	NO:4
Protactinium-231	14331-85-2	6.30E-01	1.87E+00	2/ 441	9.09E-01	9.09E-01	---	2.73E+00	NO:1
Radium-224	13233-32-4	3.30E-01	1.94E+00	61/ 61	1.10E+00	1.10E+00	---	3.24E+00	NO:3
Radium-226	13982-63-3(+D)	1.50E-01	4.06E+00	2195/2527	1.18E+00	1.18E+00	2.00E+00	1.10E-01	NO:4
Radium-228 +D	**15262-20-1(+D)**	**2.12E-01**	**1.32E+01**	**502/ 515**	**1.06E+00**	**1.06E+00**	---	**1.67E-01**	**YES**
Strontium-90	10098-97-2(+D)	1.06E-01	1.58E+00	18/ 127	2.98E-01	2.98E-01	7.20E-01	9.40E+00	NO:3
Thallium-208	14913-50-9	4.00E-02	8.00E-01	149/ 150	3.34E-01	3.34E-01	---	5.59E-02	NO:6
Thorium-227	15623-47-9	2.30E-02	4.21E-01	36/ 37	1.82E-01	1.82E-01	---	2.14E+00	NO:3
Thorium-228	14274-82-9(+D)	7.30E-03	4.10E+01	1232/1508	1.84E+00	1.84E+00	1.50E+00	1.19E-01	NO:6
Thorium-230	14269-63-7(+D)	2.06E-02	1.32E+01	1204/2931	2.72E+00	2.72E+00	1.90E+00	9.26E-02	NO:6
Thorium-232	7440-29-1(+D)	6.80E-03	2.92E+01	3374/5057	8.10E-01	8.10E-01	1.40E+00	6.90E-02	NO:4
Thorium-234	15065-10-8	6.40E-01	2.20E+00	10/ 10	1.73E+00	2.20E+00	---	1.76E+01	NO:3
[illegible]um	10028-17-8p	1.00E-02	5.85E+01	221/ 318	2.44E+00	2.44E+00	1.60E+00	7.58E+03	NO:3
[illegible]nium-233/234	**13966-29-5**	**7.34E-01**	**1.39E+00**	**4/ 4**	**2.24E+00**	**1.39E+00**	---	**4.82E-01**	**YES**
[illegible]anium-234	13966-29-5	7.05E-02	1.70E+00	505/ 545	5.70E-01	5.70E-01	1.10E+00	1.05E+01	NO:3
[illegible]ranium-235	15117-96-1(+D)	4.00E-03	2.50E-01	206/ 742	1.29E-01	1.29E-01	1.10E-01	1.54E+00	NO:3
Uranium-235/236	15117-96-1	2.02E-02	5.38E-02	10/ 37	3.88E-02	3.88E-02	---	3.10E-01	NO:3
Uranium-238	7440-61-1(+D)	5.62E-02	2.20E+00	569/1031	2.04E+00	2.04E+00	1.20E+00	4.13E+00	NO:3

CAS - Chemical Abstract Service
COPC - Constituents of Potential Concern
EPC - Exposure Point Concentration
mg/kg - milligram per kilogram
ug/kg - microgram per kilogram

NO:1 - <5% Detects
NO:2 - Max<Background
NO:3 - Max< Risk Based Guideline Value
NO:4 - EPC< Background
NO:5 - Essential Human Nutrient
NO:6 - Part of a chain which has members above that are COPCs
Bold text indicates COPCs selected

- - - not applicable, not available, or not calculated due to insufficient toxicity data

Lithium note: The RREM background value for lithium is 26 mg/kg and not 0.00 mg/kg as presented in this table. However, since the analyte would still become a COPC the value in the table was not modified.

Background values are base on the Operable Unit 9 Background Soils Investigation Chemistry Report (DOE 1994) or, in the case of nuclides with short half lives (Ac-227 Pb-210, and Pa-231) are based on the parent nuclide background and assumption of equilibrium with the parent nuclide.

R-228 note: A background value has not been calculated for Ra-228 and why none is provided in the table above. However, if Ra-228's parent nuclide background is considered (Th-232 at 1.4 pCi/g), Ra-228 would not be brought forward as a COPC. To be consistent with previous RREs, Ra-228 was presented with no background value and was brought forward as a COPC

Table 8:

Identification of Constituents of Potential Concern for the Site
Employee Exposed to Surface Soil in Parcel 7

Analyte (SRC)	CAS Number	Minimum Concentration	Maximum Concentration	Detection Frequency	95% UCL	EPC	Background Value	RBGV	COPC?
Inorganics (mg/kg)									
Aluminum	7429-90-5	6.59E+02	1.57E+05	84/ 84	1.21E+04	1.21E+04	1.90E+04	1.69E+05	NO:3
Antimony	7440-36-0	2.30E-01	2.60E+00	21/ 74	2.37E+00	2.37E+00	0.00E+00	8.18E+01	NO:3
Arsenic	7440-38-2	1.20E+00	1.46E+01	83/ 89	5.58E+00	5.58E+00	8.60E+00	2.26E+00	NO:4
Barium	7440-39-3	6.10E+00	4.24E+02	80/ 89	7.06E+01	7.06E+01	1.80E+02	1.26E+04	NO:3
Beryllium	7440-41-7	9.00E-02	1.10E+00	83/ 85	8.67E-01	8.67E-01	1.30E+00	3.70E+02	NO:2
Bismuth	7440-69-9	4.60E-01	1.41E+02	12/ 60	7.32E+00	7.32E+00	3.84E+01	---	NO:4
Cadmium	7440-43-9	1.00E-01	6.80E+00	36/ 83	1.57E+00	1.57E+00	2.10E+00	0.00E+00	NO:4
Calcium	7440-70-2	4.93E+03	3.09E+05	84/ 85	1.94E+05	1.94E+05	3.10E+05	---	NO:2
Cerium	7440-45-1	1.27E+01	4.47E+01	6/ 9	4.83E+01	4.47E+01	0.00E+00	3.85E+04	NO:3
Chromium	7440-47-3	1.30E+00	5.78E+01	82/ 86	1.42E+01	1.42E+01	2.00E+01	---	NO:4
Cobalt	7440-48-4	8.50E-01	2.04E+01	71/ 83	8.55E+00	8.55E+00	1.90E+01	1.93E+03	NO:3
Copper	7440-50-8	1.30E+00	4.80E+01	82/ 83	1.66E+01	1.66E+01	2.60E+01	8.18E+03	NO:3
Cyanide	57-12-5	2.40E-01	2.70E-01	2/ 73	5.17E-01	2.70E-01	0.00E+00	4.09E+03	NO:1
Dysprosium	**7429-91-6**	**4.50E+00**	**4.50E+00**	**1/ 6**	**4.58E+00**	**4.50E+00**	**0.00E+00**	**---**	**YES**
Erbium	**7440-52-0**	**7.20E+00**	**7.20E+00**	**1/ 9**	**5.78E+00**	**7.20E+00**	**0.00E+00**	**---**	**YES**
Europium	**7440-53-1**	**1.40E+00**	**1.60E+00**	**2/ 6**	**2.13E+00**	**1.60E+00**	**0.00E+00**	**---**	**YES**
Gadolinium	**7440-54-2**	**2.89E+01**	**6.59E+01**	**3/ 9**	**2.02E+02**	**6.59E+01**	**0.00E+00**	**---**	**YES**
Iron	7439-89-6	2.33E+03	3.88E+04	85/ 86	2.64E+04	2.64E+04	3.50E+04	---	NO:4
Lanthanum	**7439-91-0**	**7.20E+00**	**1.57E+01**	**3/ 9**	**1.49E+01**	**1.57E+01**	**0.00E+00**	**---**	**YES**
Lead	7439-92-1	3.60E+00	8.83E+01	89/ 91	1.61E+01	1.61E+01	4.80E+01	---	NO:4
Lithium	**7439-93-2**	**1.90E+00**	**4.31E+01**	**62/ 65**	**2.02E+01**	**2.02E+01**	**0.00E+00**	**---**	**YES**
Magnesium	7439-95-4	2.51E+03	1.46E+05	85/ 86	4.78E+04	4.78E+04	4.00E+04	---	NO:5
Manganese	7439-96-5	1.63E+02	9.76E+02	82/ 83	6.30E+02	6.30E+02	1.40E+03	—	NO:2
Mercury	7439-97-6	2.00E-02	6.60E-01	24/ 86	7.26E-02	7.26E-02	1.50E-01	5.78E+04	NO:3
Molybdenum	7439-98-7	1.90E-01	1.08E+01	44/ 55	2.68E+00	2.68E+00	2.72E+01	1.02E+03	NO:2
Neodymium	**7440-00-8**	**1.32E+01**	**2.99E+01**	**8/ 9**	**3.16E+01**	**2.99E+01**	**0.00E+00**	**---**	**YES**
Nickel	7440-02-0	1.40E+00	3.22E+01	75/ 83	1.73E+01	1.73E+01	3.20E+01	4.09E+03	NO:3
Potassium	7440-09-7	2.50E+02	6.09E+03	76/ 85	1.81E+03	1.81E+03	1.90E+03	---	NO:4
Praseodymium	**7440-10-0**	**1.21E+02**	**1.21E+02**	**1/ 9**	**9.52E+01**	**1.21E+02**	**0.00E+00**	**---**	**YES**
Selenium	7782-49-2	3.10E-01	7.60E-01	6/ 82	7.02E-01	7.02E-01	5.90E-01	1.02E+03	NO:3
Silver	7440-22-4	1.00E-01	6.60E+00	12/ 83	6.14E-01	6.14E-01	1.70E+00	1.02E+03	NO:3
Sodium	7440-23-5	9.48E+01	2.15E+03	71/ 86	5.13E+02	5.13E+02	2.40E+02	---	NO:5
Tantalum	**7440-25-7**	**2.74E+02**	**4.59E+02**	**3/ 5**	**1.69E+03**	**4.59E+02**	**0.00E+00**	**---**	**YES**
Thallium	7440-28-0	8.00E-01	8.00E-01	1/ 82	8.47E-01	8.00E-01	4.60E-01	1.35E+01	NO:1
Tin	7440-31-5	6.40E-01	6.30E+00	30/ 56	2.42E+00	2.42E+00	2.09E+01	1.23E+05	NO:2
Vanadium	7440-62-2	3.40E+00	4.00E+01	79/ 83	1.92E+01	1.92E+01	2.50E+01	2.04E+02	NO:3
Zinc	7440-66-6	4.90E+00	3.28E+02	84/ 85	7.01E+01	7.01E+01	1.40E+02	6.13E+04	NO:3
Pesticides and/or PCBs (ug/kg)									
4,4'-DDE	72-55-9	2.20E-01	3.90E-01	2/ 79	4.56E+00	3.90E-01	0.00E+00	1.68E+04	NO:1
4,4'-DDT	50-29-3	2.90E-01	4.90E+00	2/ 79	4.67E+00	4.67E+00	0.00E+00	9.56E+03	NO:1
Alpha Chlordane	5103-71-9	1.50E+00	1.60E+01	6/ 73	1.83E+01	1.60E+01	0.00E+00	7.64E+03	NO:3
Aroclor-1248	12672-29-6	9.80E+01	9.80E+01	1/ 79	3.14E+01	3.14E+01	0.00E+00	0.00E+00	NO:1
Aroclor-1254	11097-69-1	3.80E+01	1.30E+02	6/ 79	4.78E+01	4.78E+01	0.00E+00	6.83E+02	NO:3
Delta-BHC	319-86-8	1.90E-01	1.90E-01	1/ 78	2.41E+00	1.90E-01	0.00E+00	0.00E+00	NO:1
Dieldrin	60-57-1	2.40E-01	7.90E-01	2/ 78	5.23E+00	7.90E-01	0.00E+00	3.58E+02	NO:1
Endosulfan I	959-98-8	2.40E+00	2.40E+00	1/ 79	2.33E+00	2.33E+00	0.00E+00	0.00E+00	NO:1
Endrin	72-20-8	3.30E-01	1.30E+00	3/ 79	4.31E+00	1.30E+00	0.00E+00	6.13E+04	NO:1
Endrin Aldehyde	7421-93-4	5.70E-01	5.70E-01	1/ 69	2.84E+00	5.70E-01	0.00E+00	0.00E+00	NO:1
Endrin Ketone	53494-70-5	2.10E-01	2.10E-01	1/ 79	5.78E+00	2.10E-01	0.00E+00	0.00E+00	NO:1
Gamma Chlordane	5103-74-2	4.80E-01	1.60E+01	8/ 76	1.76E+01	1.60E+01	0.00E+00	7.64E+03	NO:3
Heptachlor	76-44-8	1.40E-01	2.90E+00	3/ 79	2.16E+00	2.16E+00	0.00E+00	1.27E+03	NO:1
Heptachlor Epoxide	1024-57-3	5.60E-01	5.60E-01	1/ 79	3.30E+00	5.60E-01	0.00E+00	6.29E+02	NO:1
Methoxychlor	72-43-5	7.80E-01	7.80E-01	1/ 78	2.50E+01	7.80E-01	0.00E+00	1.02E+06	NO:1
Semi-Volatile Organic Compounds (ug/kg)									
1,2-Dichlorobenzene	95-50-1	1.30E+01	1.30E+01	1/ 90	3.04E+02	1.30E+01	0.00E+00	2.92E+00	NO:1
2,4,6-Tribromophenol	**118-79-6**	**1.70E+03**	**1.70E+03**	**1/ 1**	**0.00E+00**	**1.70E+03**	**0.00E+00**	**0.00E+00**	**YES**
2-Fluorobiphenyl	**321-60-8**	**1.40E+03**	**1.40E+03**	**1/ 1**	**0.00E+00**	**1.40E+03**	**0.00E+00**	**0.00E+00**	**YES**
2-Fluorophenol	**367-12-4**	**1.90E+03**	**1.90E+03**	**1/ 1**	**0.00E+00**	**1.90E+03**	**0.00E+00**	**0.00E+00**	**YES**
2-Methylnaphthalene	91-57-6	3.30E+01	2.70E+03	7/ 87	2.64E+02	2.64E+02	0.00E+00	8.18E+05	NO:3
Acenaphthene	83-32-9	2.20E+01	2.80E+03	20/ 87	2.90E+02	2.90E+02	0.00E+00	3.09E+06	NO:3
Acenaphthylene	208-96-8	3.10E+01	6.10E+02	4/ 87	2.45E+02	2.45E+02	0.00E+00	0.00E+00	NO:1
Anthracene	120-12-7	2.50E+01	4.90E+03	30/ 87	3.31E+02	3.31E+02	0.00E+00	1.55E+07	NO:3
Benzo(a)anthracene	56-55-3	2.10E+01	5.70E+03	46/ 87	4.51E+02	4.51E+02	0.00E+00	1.98E+03	YES
Benzo(a)pyrene	50-32-8	2.40E+01	5.10E+03	44/ 88	4.41E+02	4.41E+02	0.00E+00	1.98E+02	YES
Benzo(b)fluoranthene	205-99-2	1.70E+01	5.00E+03	46/ 87	4.67E+02	4.67E+02	0.00E+00	1.98E+03	YES
Benzo(g,h,i)perylene	191-24-2	1.30E+01	3.50E+03	43/ 87	3.53E+02	3.53E+02	0.00E+00	0.00E+00	YES
Benzo(k)fluoranthene	207-08-9	2.00E+01	4.80E+03	46/ 87	5.01E+02	5.01E+02	0.00E+00	1.98E+04	NO:3
Benzoic Acid	65-85-0	4.80E+01	1.80E+02	8/ 35	1.93E+03	1.80E+02	0.00E+00	2.49E+08	NO:3
Bis(2-ethylhexyl)phthalate	117-81-7	2.00E+01	6.50E+03	44/ 85	3.14E+02	3.14E+02	0.00E+00	1.25E+05	NO:3
Butyl Benzyl Phthalate	85-68-7	5.80E+01	5.20E+02	2/ 85	2.38E+02	2.38E+02	0.00E+00	1.25E+07	NO:1
Carbazole	86-74-8	1.90E+01	1.50E+03	23/ 72	2.53E+02	2.53E+02	0.00E+00	8.72E+04	NO:3

Table 8:

Identification of Constituents of Potential Concern for the Site
Employee Exposed to Surface Soil in Parcel 7

Analyte (SRC)	CAS Number	Minimum Concentration	Maximum Concentration	Detection Frequency	95% UCL	EPC	Background Value	RBGV	COPC?
Chrysene	218-01-9	2.30E+01	6.30E+03	48/ 87	5.23E+02	5.23E+02	0.00E+00	1.98E+05	NO:3
Di-n-butyl Phthalate	84-74-2	3.40E+01	2.80E+02	9/ 85	2.38E+02	2.38E+02	0.00E+00	8.23E+06	NO:3
Dibenz(a,h)anthracene	**53-70-3**	**2.00E+01**	**9.30E+02**	**22/ 87**	**2.50E+02**	**2.50E+02**	0.00E+00	**1.98E+02**	**YES**
Dibenzofuran	132-64-9	1.80E+01	9.90E+02	14/ 87	2.50E+02	2.50E+02	0.00E+00	1.25E+05	NO:3
Diethyl Phthalate	84-66-2	2.30E+01	7.90E+01	6/ 85	2.28E+02	7.90E+01	0.00E+00	4.99E+07	NO:3
Fluoranthene	206-44-0	2.20E+01	1.50E+04	51/ 87	8.71E+02	8.71E+02	0.00E+00	2.06E+06	NO:3
Fluorene	86-73-7	1.90E+01	4.50E+03	18/ 87	2.93E+02	2.93E+02	0.00E+00	2.06E+06	NO:3
Hexachlorobenzene	118-74-1	7.40E+02	7.40E+02	1/ 88	2.36E+02	2.36E+02	0.00E+00	1.09E+03	NO:1
Hexachlorobutadiene	87-68-3	7.40E+02	7.40E+02	1/ 88	2.36E+02	2.36E+02	0.00E+00	1.87E+04	NO:1
Hexachlorocyclopentadiene	77-47-4	7.40E+02	7.40E+02	1/ 85	2.38E+02	2.38E+02	0.00E+00	3.70E+05	NO:1
Hexachloroethane	67-72-1	7.40E+02	7.40E+02	1/ 88	2.36E+02	2.36E+02	0.00E+00	6.23E+04	NO:1
Indeno(1,2,3-cd)pyrene	**193-39-5**	**1.70E+01**	**3.10E+03**	**42/ 87**	**3.34E+02**	**3.34E+02**	0.00E+00	**1.98E+03**	**YES**
N-Nitrosodiphenylamine	86-30-6	2.80E+02	2.80E+02	1/ 85	2.26E+02	2.26E+02	0.00E+00	3.56E+05	NO:1
Nitrobenzene-d5	**4165-60-0**	**1.30E+03**	**1.30E+03**	**1/ 1**	**0.00E+00**	**1.30E+03**	0.00E+00	0.00E+00	**YES**
P-Terphenyl-d14	**1718-51-0**	**1.40E+03**	**1.40E+03**	**1/ 1**	**0.00E+00**	**1.40E+03**	0.00E+00	0.00E+00	**YES**
Phenanthrene	**85-01-8**	**2.10E+01**	**1.20E+04**	**50/ 87**	**7.16E+02**	**7.16E+02**	0.00E+00	0.00E+00	**YES**
Phenol	108-95-2	4.00E+01	1.50E+02	2/ 84	2.35E+02	1.50E+02	0.00E+00	1.87E+07	NO:1
Phenol-d5	**4165-62-2**	**1.90E+03**	**1.90E+03**	**1/ 1**	**0.00E+00**	**1.90E+03**	0.00E+00	0.00E+00	**YES**
Pyrene	129-00-0	1.80E+01	2.10E+04	53/ 86	9.97E+02	9.97E+02	0.00E+00	1.55E+06	NO:3
Volatile Organic Compounds (ug/kg)									
1,1,2,2-Tetrachloroethane	79-34-5	3.00E+00	3.00E+00	1/ 264	4.15E+00	3.00E+00	0.00E+00	2.86E+04	NO:1
1,1,2-Trichloroethane	79-00-5	1.00E+00	1.00E+00	1/ 264	4.15E+00	1.00E+00	0.00E+00	1.00E+05	NO:1
1,2-Dichloroethane	107-06-2	2.00E+00	2.00E+00	1/ 267	4.14E+00	2.00E+00	0.00E+00	6.29E+04	NO:1
1,2-Dichloroethene	540-59-0	1.00E+00	1.40E+02	13/ 259	4.92E+00	4.92E+00	0.00E+00	1.84E+06	NO:3
1,2-Dichloropropane	78-87-5	2.00E+00	2.00E+00	1/ 264	4.13E+00	2.00E+00	0.00E+00	8.42E+04	NO:1
1,2-cis-Dichloroethene (DCE)	156-59-2	2.00E+01	3.20E+03	15/ 28	1.59E+04	3.20E+03	0.00E+00	2.04E+06	NO:3
1,3-Dichlorobenzene	541-73-1	1.00E+00	1.60E+01	2/ 90	3.32E+02	1.60E+01	0.00E+00	1.87E+06	NO:1
1,4-Dichlorobenzene	106-46-7	1.30E+01	4.40E+01	2/ 93	2.83E+02	4.40E+01	0.00E+00	7.27E+04	NO:1
2-Butanone	78-93-3	2.00E+00	5.50E+01	27/ 267	7.83E+00	7.83E+00	0.00E+00	1.23E+08	NO:3
2-Hexanone	591-78-6	5.00E+00	1.30E+01	2/ 265	6.96E+00	6.96E+00	0.00E+00	0.00E+00	NO:1
4-Methyl-2-pentanone	108-10-1	7.00E+00	2.00E+01	4/ 265	7.01E+00	7.01E+00	0.00E+00	1.64E+07	NO:1
Acetone	67-64-1	2.00E+00	6.00E+03	97/ 264	1.41E+01	1.41E+01	0.00E+00	1.84E+08	NO:3
Acrylonitrile	107-13-1	4.00E+00	5.00E+00	2/ 141	6.43E+01	5.00E+00	0.00E+00	1.06E+04	NO:1
Bromoform	75-25-2	1.00E+00	1.00E+00	1/ 264	4.15E+00	1.00E+00	0.00E+00	7.24E+05	NO:1
Carbon Disulfide	75-15-0	1.00E+00	2.00E+00	2/ 264	4.14E+00	2.00E+00	0.00E+00	2.04E+07	NO:1
Chlorobenzene	108-90-7	3.00E+00	1.00E+02	5/ 268	4.34E+00	4.34E+00	0.00E+00	4.09E+06	NO:1
Dichloromethane (Methylene Chloride)	75-09-2	3.00E+00	1.20E+04	203/ 265	2.16E+01	2.16E+01	0.00E+00	7.63E+05	NO:3
Ethylbenzene	100-41-4	1.00E+00	4.00E+00	4/ 266	4.10E+00	4.00E+00	0.00E+00	2.04E+07	NO:1
FREON-113	76-13-1	3.00E+00	3.00E+00	3/ 167	3.57E+00	3.00E+00	0.00E+00	6.13E+09	NO:1
Hexane	110-54-3	2.00E+00	8.00E+00	13/ 162	5.77E+00	5.77E+00	0.00E+00	2.25E+09	NO:3
Isopropyl Benzene	98-82-8	2.00E+00	2.00E+00	1/ 5	7.08E+01	2.00E+00	0.00E+00	2.04E+07	NO:3
Methyl Cyclohexane	**108-87-2**	**5.00E+00**	**6.00E+00**	**2/ 5**	**6.19E+00**	**6.00E+00**	0.00E+00	0.00E+00	**YES**
Naphthalene	91-20-3	2.70E+01	1.90E+03	11/ 87	2.62E+02	2.62E+02	0.00E+00	1.24E+06	NO:3
Styrene	100-42-5	4.00E-01	2.00E+00	3/ 265	4.12E+00	2.00E+00	0.00E+00	4.09E+07	NO:1
Tetrachloroethene (PCE)	127-18-4	1.00E+00	5.00E+00	5/ 268	4.13E+00	4.13E+00	0.00E+00	1.06E+04	NO:1
Toluene	108-88-3	1.00E+00	3.00E+00	33/ 266	4.00E+00	3.00E+00	0.00E+00	4.09E+07	NO:3
Trichloroethylene (TCE)	79-01-6	1.00E+00	5.40E+03	52/ 290	1.36E+01	1.36E+01	0.00E+00	1.43E+04	NO:3
Trichloromethane (Chloroform)	67-66-3	4.00E-01	6.70E+01	4/ 267	4.39E+00	4.39E+00	0.00E+00	2.04E+06	NO:1
Vinyl Chloride	75-01-4	9.00E+00	4.40E+02	10/ 290	9.98E+00	9.98E+00	0.00E+00	3.82E+03	NO:1
Xylenes, Total	1330-20-7	1.00E+00	1.80E+01	9/ 266	4.16E+00	4.16E+00	0.00E+00	4.09E+07	NO:1
Radionuclides (pCi/g)									
Actinium-227 +D	14952-40-0(+D)	2.30E-01	3.10E+00	62/ 805	2.08E-01	2.08E-01	1.10E-01	5.02E-01	YES
Actinium-228	14331-83-0	3.00E-01	1.78E+00	81/ 81	1.00E+00	1.00E+00	0.00E+00	2.01E-01	NO:6
Americium-241	14596-10-2	4.00E-02	2.60E+00	50/1145	7.30E-02	7.30E-02	0.00E+00	9.93E+00	NO:1
Bismuth-207	13982-38-2	1.50E-02	3.40E-02	4/ 205	3.47E-02	3.40E-02	0.00E+00	1.29E-01	NO:1
Bismuth-210	14331-79-4	1.00E-02	1.00E-02	2/ 61	6.96E-02	1.00E-02	0.00E+00	9.07E+01	NO:1
Bismuth-210M	BI-210M	4.70E-02	4.70E-02	1/ 251	3.62E-02	3.62E-02	0.00E+00	0.00E+00	NO:1
Bismuth-212	14913-49-6	6.60E-01	1.74E+00	18/ 18	1.09E+00	1.74E+00	0.00E+00	1.03E+00	NO:6
Bismuth-214	14733-03-0	2.20E-01	1.28E+00	83/ 83	6.64E-01	6.64E-01	1.20E+00	1.22E-01	NO:4
Cesium-137	10045-97-3(+D)	1.00E-02	2.90E+01	328/1229	7.20E-02	7.20E-02	4.20E-01	3.56E-01	NO:4
Cobalt-60	10198-40-0	2.00E-02	9.19E-02	24/1134	3.51E-02	3.51E-02	0.00E+00	7.35E-02	NO:1
Lead-210	14255-04-0(+D)	1.40E-01	3.97E+00	338/ 802	7.12E-01	7.12E-01	1.20E+00	1.19E+00	NO:4
Lead-212	15092-94-1	8.50E-02	2.42E+00	147/ 147	7.62E-01	7.62E-01	0.00E+00	1.73E+00	NO:6
Lead-214	15067-28-4	1.33E-01	1.23E+00	134/ 134	7.16E-01	7.16E-01	1.20E+00	9.29E-01	NO:4
Plutonium-238	13981-16-3	3.10E-03	4.94E+02	1435/3726	4.39E+01	4.39E+01	1.30E-01	1.13E+01	YES
Plutonium-239	15117-48-3	2.20E-02	3.20E-02	3/ 4	6.88E-02	3.20E-02	0.00E+00	1.12E+01	NO:3
Plutonium-239/240	OER-100-70	1.60E-03	7.26E+00	363/ 837	4.97E-02	4.97E-02	1.80E-01	0.00E+00	NO:4
Plutonium-242	13982-10-0	4.26E-03	8.48E-03	2/ 6	1.03E-02	8.48E-03	0.00E+00	1.17E+01	NO:3
Potassium-40	13966-00-2	1.15E+00	3.92E+01	339/ 342	1.94E+01	1.94E+01	3.70E+01	1.12E+00	NO:4
Radium-224	13233-32-4	8.09E-01	1.11E+00	3/ 3	1.38E+00	1.11E+00	0.00E+00	5.47E+00	NO:3
Radium-226	13982-63-3(+D)	1.68E-01	4.06E+00	965/1142	1.20E+00	1.20E+00	2.00E+00	1.05E-01	NO:4
Radium-228 +D	**15262-20-1(+D)**	**2.88E-01**	**3.97E+00**	**179/ 181**	**1.05E+00**	**1.05E+00**	0.00E+00	**1.76E-01**	**YES**
Strontium-90	10098-97-2(+D)	1.06E-01	1.58E+00	18/ 62	3.48E-01	3.48E-01	7.20E-01	1.50E+01	NO:3
Thallium-208	14913-50-9	4.00E-02	8.00E-01	115/ 116	3.27E-01	3.27E-01	0.00E+00	5.18E-02	NO:6
Thorium-227	15623-47-9	4.00E-02	4.21E-01	23/ 24	2.32E-01	2.32E-01	0.00E+00	2.17E+00	NO:3

Table 8:

Identification of Constituents of Potential Concern for the Site
Employee Exposed to Surface Soil In Parcel 7

Analyte (SRC)	CAS Number	Minimum Concentration	Maximum Concentration	Detection Frequency	95% UCL	EPC	Background Value	RBGV	COPC?
Thorium-228	14274-82-9(+D)	7.30E-03	4.34E+00	799/1032	2.57E+00	2.57E+00	1.50E+00	1.14E-01	NO:6
Thorium-230	14269-63-7(+D)	2.06E-02	7.62E+00	772/1526	2.47E+00	2.47E+00	1.90E+00	0.00E+00	NO:6
Thorium-232	7440-29-1(+D)	6.80E-03	2.92E+01	1794/2929	8.01E-01	8.01E-01	1.40E+00	0.00E+00	NO:4
Thorium-234	15065-10-8	6.40E-01	2.20E+00	8/ 8	2.08E+00	2.20E+00	0.00E+00	2.58E+01	NO:3
Tritium	10028-17-8p	3.91E-02	9.50E+00	12/ 28	3.57E+01	9.50E+00	1.60E+00	1.45E+04	NO:3
Uranium-233/234	**13966-29-5**	**7.34E-01**	**1.39E+00**	**4/ 4**	**2.24E+00**	**1.39E+00**	**0.00E+00**	**5.52E-01**	**YES**
Uranium-234	13966-29-5	9.60E-02	1.46E+00	242/ 246	6.57E-01	6.57E-01	1.10E+00	1.97E+01	NO:3
Uranium-235	15117-96-1(+D)	4.00E-03	2.30E-01	131/ 479	2.12E-01	2.12E-01	1.10E-01	1.55E+00	NO:3
Uranium-235/236	U-235/236	5.07E-02	5.07E-02	1/ 2	0.00E+00	5.07E-02	0.00E+00	3.32E-01	NO:3
Uranium-238	7440-61-1(+D)	9.00E-02	2.20E+00	265/ 568	2.43E+00	2.20E+00	1.20E+00	5.22E+00	NO:3

CAS - Chemical Abstract Service
COPC - Constituents of Potential Concern
EPC - Exposure Point Concentration
mg/kg - milligram per kilogram
ug/kg - microgram per kilogram
pCi/g - picocurie per gram
RBGV - Risk Based Guideline Value
UCL - Upper Confidence Limit

NO:1 - <5% Detects
NO:2 - Max<Background
NO:3 - Max< Risk Based Guideline Value
NO:4 - EPC< Background
NO:5 - Essential Human Nutrients
NO:6 - Part of a chain which has members above that are COPCs

Bold text indicates COPCs selected

- - - not applicable, not available, or not calculated due to insufficient toxicity data

Background values are base on the Operable Unit 9 Background Soils Investigation Chemistry Report (DOE 1994) or, in the case of nuclides with short half lives (Ac-227 Pb-210, and Pa-231) are based on the parent nuclide background and assumption of equilibrium with the parent nuclide.

Ra-228 note: A background value has not been calculated for Ra-228 and why none is provided in the table above. However, if Ra-228's parent nuclide background is considered (Th-232 at 1. pCi/g), Ra-228 would not be brought forward as a COPC. To be consistent with previous RREs, Ra-228 was presented with no background value and was brought forward as a COPC

Table 9

Identification of Constituents of Potential Concern for a Construction Worker Exposed to Surface Soil in the MCP Parcel 8

Analyte (SRC)	CAS Number	Minimum Concentration	Maximum Concentration	Detection Frequency	95% UCL	EPC	Background Value	10^{-4} RBGV	COPC?
Inorganics (mg/kg)									
Aluminum	7429-90-5	1.59E+00	2.14E+04	308/ 309	1.10E+04	1.10E+04	1.90E+04	2.08E+04	NO:4
Antimony	**7440-36-0**	**2.30E-01**	**6.90E+01**	**55/ 290**	**9.91E+00**	**9.91E+00**	---	**8.52E+00**	**YES**
Arsenic	7440-38-2	2.30E-03	3.22E+01	313/ 325	5.36E+00	5.36E+00	8.60E+00	1.85E+00	NO:4
Barium	7440-39-3	1.20E-02	6.23E+02	294/ 321	5.89E+01	5.89E+01	1.80E+02	1.47E+03	NO:3
Beryllium	7440-41-7	1.50E-04	1.30E+00	291/ 462	5.49E-01	5.49E-01	1.30E+00	4.21E+01	NO:3
Bismuth	7440-69-9	4.30E-01	1.01E+02	35/ 128	1.34E+01	1.34E+01	3.84E+01	---	NO:4
Cadmium	7440-43-9s	6.00E-02	2.42E+01	112/ 321	1.37E+00	1.37E+00	2.10E+00	5.46E+00	NO:4
Calcium	7440-70-2	1.33E+02	2.68E+05	309/ 311	1.42E+05	1.42E+05	3.10E+05	---	NO:2
Cerium	7440-45-1	2.46E+01	2.84E+01	2/ 25	2.38E+01	2.38E+01	---	3.85E+04	NO:3
Chromium	7440-47-3	3.60E-03	9.21E+01	303/ 308	1.73E+01	1.73E+01	2.00E+01	---	NO:4
Cobalt	7440-48-4	1.70E-03	2.80E+01	278/ 311	9.63E+00	9.63E+00	1.90E+01	3.83E+02	NO:3
Copper	7440-50-8	6.50E-03	3.82E+02	301/ 305	2.09E+01	2.09E+01	2.60E+01	8.52E+02	NO:3
Cyanide	57-12-5	1.10E-01	1.01E+01	45/ 254	5.58E-01	5.58E-01	---	4.26E+02	NO:3
Erbium	**7440-52-0**	**4.00E+01**	**1.62E+02**	**19/ 25**	**1.90E+02**	**1.62E+02**	---	---	**YES**
Iron	7439-89-6	4.33E+00	1.09E+05	312/ 314	2.28E+04	2.28E+04	3.50E+04	---	NO:4
Lead	7439-92-1	2.40E-03	3.10E+03	300/ 307	1.24E+01	1.24E+01	4.80E+01	---	NO:4
Lithium	**7439-93-2**	**1.10E+00**	**4.29E+01**	**195/ 208**	**1.97E+01**	**1.97E+01**	---	---	**YES**
Magnesium	7439-95-4	4.31E+01	1.08E+05	307/ 311	3.52E+04	3.52E+04	4.00E+04	---	NO:4
Manganese	7439-96-5s	1.75E-01	1.49E+03	304/ 306	5.49E+02	5.49E+02	1.40E+03	4.85E+02	NO:4
Mercury	7439-97-6	2.00E-02	9.10E-01	54/ 318	7.09E-02	7.09E-02	1.50E-01	5.78E+04	NO:3
Molybdenum	7439-98-7	5.30E-01	1.64E+01	58/ 122	2.65E+00	2.65E+00	2.72E+01	1.06E+02	NO:2
Neodymium	**7440-00-8**	**1.98E+01**	**2.22E+01**	**2/ 25**	**2.32E+01**	**2.22E+01**	---	---	**YES**
Nickel	7440-02-0	4.20E-03	1.07E+02	286/ 302	2.13E+01	2.13E+01	3.20E+01	4.26E+02	NO:3
Potassium	7440-09-7	5.16E-01	7.46E+03	286/ 313	2.22E+03	2.22E+03	1.90E+03	---	NO:5
Selenium	7782-49-2	1.20E-01	2.90E+00	34/ 303	5.41E-01	5.41E-01	5.90E-01	1.06E+02	NO:3
Silver	7440-22-4	1.90E-01	2.06E+01	92/ 319	3.74E+00	3.74E+00	1.70E+00	1.06E+02	NO:3
Sodium	7440-23-5	3.23E-01	2.62E+03	269/ 314	4.17E+02	4.17E+02	2.40E+02	---	NO:5
Tantalum	**7440-25-7**	**1.68E+02**	**5.53E+02**	**23/ 49**	**2.69E+02**	**2.69E+02**	---	---	**YES**
Thallium	**7440-28-0**	**6.20E-04**	**5.50E+00**	**58/ 312**	**7.05E-01**	**7.05E-01**	**4.60E-01**	**1.41E+00**	**YES**
Tin	7440-31-5	9.80E-01	8.00E+00	18/ 116	2.28E+00	2.28E+00	2.09E+01	1.28E+04	NO:2
Vanadium	7440-62-2	6.10E-03	4.88E+01	308/ 311	1.97E+01	1.97E+01	2.50E+01	2.13E+01	NO:4
Zinc	7440-66-6	1.20E-02	1.18E+03	305/ 307	6.55E+01	6.55E+01	1.40E+02	6.39E+03	NO:3
oxins/Dibenzofurans (µg/kg)									
1,2,3,4,6,7,8-HpCDD	**35822-46-9**	**2.10E-01**	**2.30E+00**	**3/ 27**	**4.34E-01**	**4.34E-01**	---	---	**YES**
1,2,3,6,7,8-HxCDF	55684-94-1	3.60E-01	3.60E-01	1/ 27	2.92E-01	2.92E-01	---	1.99E-01	NO:1
HpCDD	**37871-00-4**	**5.00E-01**	**4.10E+00**	**3/ 27**	**7.56E-01**	**7.56E-01**	---	**1.99E+00**	**YES**
HpCDF	38998-75-3	7.30E-01	7.30E-01	1/ 27	4.94E-01	4.94E-01	---	1.99E+00	NO:1
HxCDD	34465-46-8	1.70E-01	1.70E-01	1/ 27	2.02E-01	1.70E-01	---	1.99E-01	NO:1
OCDD	3268-87-9	3.10E-01	1.66E+01	3/ 27	1.71E+00	1.71E+00	---	1.99E+01	NO:3
OCDF	39001-02-0	5.40E-01	5.40E-01	1/ 27	6.28E-01	5.40E-01	---	1.99E+01	NO:1
Explosives (µg/kg)									
1,3,5-Trinitrobenzene	99-35-4	3.70E+02	3.70E+02	1/ 73	7.24E+02	3.70E+02	---	6.39E+05	NO:1
2,4-Dinitrotoluene	121-14-2	8.50E+02	8.50E+02	1/ 46	2.01E+02	2.01E+02	---	3.54E+03	NO:1
2,6-Dinitrotoluene	606-20-2	8.50E+01	9.50E+01	2/ 270	3.18E+02	9.50E+01	---	3.54E+03	NO:1
HMX	2691-41-0	3.80E+02	1.40E+03	4/ 73	1.40E+03	1.40E+03	---	1.06E+06	NO:3
RDX	121-82-4	2.90E+02	2.40E+03	6/ 73	1.11E+03	1.11E+03	---	2.71E+04	NO:3
Pesticides/PCBs (µg/kg)									
4,4'-DDD	72-54-8	2.40E-01	1.10E+01	5/ 220	6.19E+00	6.19E+00	---	1.24E+04	NO:1
4,4'-DDE	72-55-9	2.20E-01	3.10E+00	6/ 220	4.86E+00	3.10E+00	---	8.77E+03	NO:1
4,4'-DDT	50-29-3	1.40E-01	2.70E+01	23/ 219	6.49E+00	6.49E+00	---	8.12E+03	NO:3
Aldrin	309-00-2	5.70E-02	4.00E+00	10/ 220	2.85E+00	2.85E+00	---	1.42E+02	NO:1
Alpha Chlordane**	5103-71-9	2.70E-02	1.50E+00	10/ 216	2.02E+01	1.50E+00	---	7.61E+03	NO:1
Alpha-BHC	319-84-6	4.30E-02	3.20E+00	24/ 220	2.91E+00	2.91E+00	---	4.73E+02	NO:3
Aroclor-1248	12672-29-6	1.80E+01	1.80E+01	1/ 239	4.39E+01	1.80E+01	---	---	NO:1
Aroclor-1254	11097-69-1	1.50E+01	7.60E+01	10/ 239	8.24E+01	7.60E+01	---	3.20E+02	NO:1
Aroclor-1260	11096-82-5	1.50E+01	4.40E+01	2/ 238	8.03E+01	4.40E+01	---	---	NO:1
Beta-BHC	319-85-7	4.20E-01	1.30E+01	5/ 220	3.06E+00	3.06E+00	---	1.66E+03	NO:1
Delta-BHC	319-86-8	1.00E-02	4.10E-01	6/ 220	3.94E+00	4.10E-01	---	---	NO:1
Dieldrin	60-57-1	7.80E-02	5.00E+01	14/ 220	4.47E+00	4.47E+00	---	1.86E+02	NO:3
Endosulfan I	959-98-8	4.80E-01	4.80E-01	1/ 220	4.34E+00	4.80E-01	---	---	NO:1
Endosulfan II	33213-65-9	1.50E-01	4.40E+00	8/ 220	4.67E+00	4.40E+00	---	---	NO:1
Endosulfan Sulfate	1031-07-8	2.20E-01	1.30E+00	6/ 220	9.56E+00	1.30E+00	---	---	NO:1
Endrin	72-20-8	2.20E-01	4.10E+00	10/ 219	5.08E+00	4.10E+00	--	6.39E+03	NO:1
Endrin Aldehyde	7421-93-4	1.30E-01	1.40E+01	7/ 203	6.61E+00	6.61E+00	---	---	NO:1
Endrin Ketone	53494-70-5	1.60E-01	5.40E+00	7/ 220	9.20E+00	5.40E+00	---	---	NO:1
Gamma Chlordane	5103-74-2	6.80E-01	5.10E+00	6/ 216	1.96E+01	5.10E+00	---	7.61E+03	NO:1
Gamma-BHC (Lindane)	58-89-9	4.30E-01	4.30E-01	1/ 220	2.70E+00	4.30E-01	---	2.29E+03	NO:1
Heptachlor	76-44-8	2.00E-01	7.20E-01	3/ 220	2.49E+00	7.20E-01	---	6.62E+02	NO:1
Heptachlor Epoxide	1024-57-3	1.40E-01	7.00E+00	11/ 220	5.80E+00	5.80E+00	---	2.77E+02	NO:3
thoxychlor	72-43-5	1.30E+00	1.00E+02	6/ 220	4.51E+01	4.51E+01	---	1.06E+05	NO:1
mi-Volatile Organic Compounds (µg/kg)									
1,2,4-Trichlorobenzene	120-82-1	1.20E+03	1.20E+03	1/ 254	2.96E+02	2.96E+02	---	1.72E+05	NO:1
1,2-Dichlorobenzene	95-50-1	6.40E-01	6.40E-01	1/ 257	3.27E+02	6.40E-01	---	1.55E+06	NO:1
2,4-Dimethylphenol	105-67-9	3.10E+04	3.10E+04	1/ 254	3.09E+02	3.09E+02	---	3.44E+05	NO:1
2,4-Dinitrotoluene	121-14-2	8.50E+02	8.50E+02	1/ 46	2.01E+02	2.01E+02	---	3.54E+03	NO:1
2-Benzyl-4-Chlorophenol	120-32-1	1.20E+02	1.20E+02	1/ 40	1.95E+02	1.20E+02	---	---	NO:1
2-Chlorophenol	95-57-8	9.40E+01	1.80E+03	2/ 254	2.96E+02	2.96E+02	---	8.60E+04	NO:1
2-Methylnaphthalene	91-57-6	1.40E+01	2.30E+04	11/ 269	4.38E+02	4.38E+02	---	8.52E+04	NO:1

Table 9

Identification of Constituents of Potential Concern for a Construction Worker Exposed to Surface Soil in the MCP Parcel 8

Analyte (SRC)	CAS Number	Minimum Concentration	Maximum Concentration	Detection Frequency	95% UCL	EPC	Background Value	10^{-4} RBGV	COPC?
2-Methylphenol	95-48-7	9.00E+01	1.30E+04	2/ 261	2.96E+02	2.96E+02	---	1.06E+06	NO:1
3,3'-Dichlorobenzidine	91-94-1	4.80E+01	1.10E+02	2/ 254	4.49E+02	1.10E+02	---	5.35E+03	NO:1
4-Chloro-3-methylphenol	59-50-7	8.50E+01	2.20E+03	3/ 254	2.96E+02	2.96E+02	---	---	NO:1
4-Methylphenol	106-44-5	4.60E+01	2.50E+04	3/ 261	3.09E+02	3.09E+02	---	1.06E+05	NO:1
4-Nitrophenol	100-02-7	2.40E+03	2.40E+03	1/ 254	1.11E+03	1.11E+03	---	---	NO:1
Acenaphthene	83-32-9	1.90E+01	5.10E+03	29/ 269	4.38E+02	4.38E+02	---	9.76E+05	NO:3
Acenaphthylene	208-96-8	1.20E+01	7.30E+02	7/ 269	4.19E+02	4.19E+02	---	---	NO:1
Anthracene	120-12-7	1.80E+01	3.80E+04	45/ 269	4.90E+02	4.90E+02	---	4.88E+06	NO:3
Benzo(a)anthracene	**56-55-3**	**2.00E+01**	**9.60E+04**	**70/ 269**	**5.14E+02**	**5.14E+02**	**---**	**3.12E+03**	**YES**
Benzo(a)pyrene	**50-32-8**	**2.00E+01**	**1.10E+05**	**69/ 269**	**4.93E+02**	**4.93E+02**	**---**	**3.12E+02**	**YES**
Benzo(b)fluoranthene	**205-99-2**	**2.20E+01**	**1.20E+05**	**75/ 269**	**5.19E+02**	**5.19E+02**	**---**	**3.12E+03**	**YES**
Benzo(g,h,i)perylene	**191-24-2**	**2.00E+01**	**1.65E+05**	**59/ 269**	**5.23E+02**	**5.23E+02**	**---**	**---**	**YES**
Benzo(k)fluoranthene	**207-08-9**	**1.90E+01**	**1.10E+05**	**67/ 269**	**5.09E+02**	**5.09E+02**	**---**	**3.12E+04**	**YES**
Benzoic Acid	65-85-0	4.00E+01	5.80E+03	9/ 126	2.03E+03	2.03E+03	---	6.88E+07	NO:3
Benzyl Alcohol	100-51-6	1.70E+04	1.70E+04	1/ 132	3.27E+02	3.27E+02	---	5.16E+06	NO:1
Bis(2-ethylhexyl)phthalate	117-81-7	2.20E+01	3.40E+03	138/ 255	3.46E+02	3.46E+02	---	1.72E+05	NO:3
Butyl Benzyl Phthalate	85-68-7	3.20E+01	1.30E+03	33/ 254	3.10E+02	3.10E+02	---	3.44E+06	NO:3
Carbazole	86-74-8	1.90E+01	1.70E+03	25/ 169	2.85E+02	2.85E+02	---	1.20E+05	NO:3
Chrysene	218-01-9	2.60E+01	1.20E+05	73/ 256	4.75E+02	4.75E+02	---	3.12E+05	NO:3
Dibenz(a,h)anthracene	**53-70-3**	**2.00E+01**	**7.50E+02**	**28/ 267**	**4.27E+02**	**4.27E+02**	**---**	**3.12E+02**	**YES**
Dibenzofuran	132-64-9	2.80E+01	1.10E+03	15/ 254	3.05E+02	3.05E+02	---	3.44E+04	NO:3
Diethyl Phthalate	84-66-2	2.00E+01	1.00E+02	6/ 254	2.93E+02	1.00E+02	---	1.38E+07	NO:1
Dimethyl Phthalate	131-11-3	3.40E+01	1.30E+02	3/ 254	2.93E+02	1.30E+02	---	2.13E+08	NO:1
Di-n-butyl Phthalate	84-74-2	1.90E+01	7.80E+04	68/ 256	3.61E+02	3.61E+02	---	1.72E+06	NO:3
Di-n-octyl Phthalate	117-84-0	2.10E+01	3.50E+05	34/ 254	3.05E+02	3.05E+02	---	8.52E+05	NO:3
Fluoranthene	206-44-0	1.50E+01	1.80E+05	101/ 270	6.29E+02	6.29E+02	---	6.51E+05	NO:3
Fluorene	86-73-7	2.30E+01	2.10E+04	26/ 269	4.57E+02	4.57E+02	---	6.51E+05	NO:3
Hexachlorobenzene	118-74-1	4.90E+01	4.90E+01	1/ 261	2.89E+02	4.90E+01	---	1.51E+03	NO:1
Indeno(1,2,3-cd)pyrene	**193-39-5**	**1.60E+01**	**1.20E+05**	**57/ 267**	**4.56E+02**	**4.56E+02**	**---**	**3.12E+03**	**YES**
Isophorone	78-59-1	4.10E+02	7.80E+02	2/ 254	2.84E+02	2.84E+02	---	2.54E+06	NO:1
N-Nitroso-di-n-propylamine	621-64-7	4.10E+01	1.10E+03	6/ 254	2.94E+02	2.94E+02	---	3.44E+02	NO:1
N-Nitrosodiphenylamine	86-30-6	1.50E+02	1.50E+02	1/ 254	2.91E+02	1.50E+02	---	3.44E+05	NO:1
Pentachlorophenol	87-86-5	1.20E+02	1.80E+03	5/ 261	1.08E+03	1.08E+03	---	1.56E+04	NO:1
Phenanthrene	**85-01-8**	**1.80E+01**	**1.00E+05**	**82/ 269**	**6.23E+02**	**6.23E+02**	**---**	**---**	**YES**
Phenol	108-95-2	1.10E+02	2.20E+04	5/ 257	3.06E+02	3.06E+02	---	5.16E+06	NO:1
Pyrene	129-00-0	1.90E+01	1.60E+05	93/ 270	6.00E+02	6.00E+02	---	4.88E+05	NO:2
Volatile Organic Compounds (µg/kg)									
1,1,1-Trichloroethane	71-55-6	1.00E+00	3.04E+01	8/ 354	4.52E+00	4.52E+00	---	6.84E+05	NO:1
1,1-Dichloroethane	75-34-3	4.00E-01	4.00E-01	1/ 354	4.47E+00	4.00E-01	---	1.93E+05	NO:1
1,2-cis-Dichloroethene (DCE)	156-59-2	2.37E-01	1.12E+03	22/ 41	9.19E+01	9.19E+01	---	2.13E+05	NO:3
1,2-Dichloroethane	107-06-2	1.00E+00	1.00E+00	1/ 361	4.48E+00	1.00E+00	---	3.45E+03	NO:1
1,2-Dichloroethene	540-59-0	4.33E-01	1.16E+03	30/ 364	5.99E+00	5.99E+00	---	1.92E+05	NO:3
1,2-Dichloropropane	78-87-5	2.87E+00	2.87E+00	1/ 354	4.46E+00	2.87E+00	---	2.08E+03	NO:1
1,2-trans-Dichloroethene	156-60-5	2.00E+00	4.38E+02	3/ 44	4.35E+01	4.35E+01	---	4.26E+05	NO:3
1,4-Dichlorobenzene	106-46-7	1.10E+02	1.10E+03	2/ 264	3.16E+02	3.16E+02	---	1.00E+05	NO:1
2-Butanone	78-93-3	6.00E-01	4.60E+01	65/ 357	8.08E+00	8.08E+00	---	6.65E+06	NO:3
2-Hexanone	591-78-6	3.00E+00	6.10E+01	11/ 354	7.30E+00	7.30E+00	---	---	NO:1
4-Methyl-2-pentanone	108-10-1	6.00E-01	2.00E+01	23/ 354	7.17E+00	7.17E+00	---	1.47E+06	NO:3
Acetone	67-64-1	2.00E+00	2.50E+02	170/ 344	2.12E+01	2.12E+01	---	1.92E+07	NO:3
Acetonitrile	75-05-8	6.70E+01	6.70E+01	1/ 91	8.18E+01	6.70E+01	---	2.00E+05	NO:1
Acrylonitrile	107-13-1	8.00E+00	8.00E+00	1/ 94	9.65E+01	8.00E+00	---	1.82E+03	NO:1
Benzene	71-43-2	5.00E-01	8.00E+00	16/ 384	4.37E+00	4.37E+00	---	6.46E+03	NO:1
Carbon Disulfide	75-15-0	8.00E-01	1.33E+01	42/ 354	4.47E+00	4.47E+00	---	1.16E+05	NO:3
Carbon Tetrachloride	56-23-5	2.00E+00	2.00E+00	1/ 361	4.56E+00	2.00E+00	---	2.44E+03	NO:1
Chlorobenzene	108-90-7	2.00E+00	1.10E+01	2/ 361	4.49E+00	4.49E+00	---	4.85E+04	NO:1
Chloromethane	74-87-3	1.00E+00	6.00E+00	3/ 354	6.45E+00	6.00E+00	---	1.59E+04	NO:1
Dichloromethane (Methylene Chloride)	75-09-2	1.00E+00	1.40E+03	219/ 354	1.97E+01	1.97E+01	---	8.25E+04	NO:3
Ethylbenzene	100-41-4	7.00E-01	1.80E+01	33/ 377	4.32E+00	4.32E+00	---	7.80E+04	NO:3
FREON-113	76-13-1	2.00E+00	4.00E+01	4/ 128	6.39E+00	6.39E+00	---	6.93E+06	NO:1
Hexane	110-54-3	2.00E+00	3.00E+00	2/ 91	8.13E+00	3.00E+00	---	4.08E+04	NO:1
Naphthalene	91-20-3	1.60E+01	4.50E+03	11/ 269	4.31E+02	4.31E+02	---	3.44E+05	NO:1
Styrene	100-42-5	3.00E-01	3.00E+00	25/ 354	4.47E+00	3.00E+00	---	1.46E+06	NO:3
Tetrachloroethene (PCE)	**127-18-4**	**2.00E-01**	**5.94E+03**	**59/ 374**	**8.15E+00**	**8.15E+00**	**---**	**3.66E+03**	**YES**
Toluene	108-88-3	5.70E-01	7.00E+01	82/ 377	4.25E+00	4.25E+00	---	2.00E+05	NO:3
Trichloroethylene (TCE)	**79-01-6**	**2.81E-01**	**9.52E+03**	**63/ 374**	**9.27E+00**	**9.27E+00**	**---**	**4.38E+02**	**YES**
Trichloromethane (Chloroform)	67-66-3	3.00E-01	2.00E+00	25/ 361	4.46E+00	2.00E+00	---	2.56E+03	NO:3
Vinyl Chloride	75-01-4	3.86E-01	6.82E+01	6/ 374	7.35E+00	7.35E+00	---	1.07E+03	NO:1
Xylenes, Total	1330-20-7	3.00E-01	1.50E+02	45/ 377	4.75E+00	4.75E+00	---	6.42E+04	NO:3
Radionuclides (pCi/g)									
Actinium-227 +L ***	14952-40-0L	3.80E-02	2.65E+00	330/2319	2.57E-01	2.57E-01	1.10E-01	4.56E-01	YES
Actinium-228	14331-83-0	3.80E-05	2.48E+00	998/1309	6.69E-01	6.69E-01	---	2.17E-01	NO:6
Americium-241	**14596-10-2**	**3.00E-02**	**3.36E+01**	**226/2650**	**1.08E-01**	**1.08E-01**	**---**	**6.32E+00**	**YES**
Bismuth-207	13982-38-2	1.00E-02	1.53E-01	10/1708	3.50E-02	3.50E-02	---	1.39E-01	NO:1
Bismuth-210M	BI-210M	5.00E-02	2.41E+00	32/1617	4.96E-02	4.96E-02	---	---	NO:1
Bismuth-212	14913-49-6	5.30E-01	2.40E+00	36/ 37	1.48E+00	1.48E+00	---	1.11E+00	NO:6
Bismuth-214 ****	14733-03-0	2.81E-05	1.97E+00	1366/1381	6.18E-01	6.18E-01	1.20E+00	1.31E-01	NO:4
Cesium-137	10045-97-3(+D)	1.00E-02	2.50E+00	273/2643	5.94E-02	5.94E-02	4.20E-01	3.82E-01	NO:4
Cobalt-60	10198-40-0	1.00E-02	1.10E+00	40/2595	5.60E-02	5.60E-02	---	7.91E-02	NO:1
Lead-210 ****	14255-04-0(+D)	4.00E-02	1.17E+01	424/2255	1.10E+00	1.10E+00	1.20E+00	6.25E-01	NO:4
Lead-212	15092-94-1	3.44E-05	2.67E+00	1401/1407	6.51E-01	6.51E-01	---	1.79E+00	NO:6
Lead-214 ****	15067-28-4	2.10E-01	1.32E+00	481/ 483	5.99E-01	5.99E-01	1.20E+00	1.00E+00	NO:4

Table 9

Identification of Constituents of Potential Concern for a Construction Worker Exposed to Surface Soil in the MCP Parcel 8

Analyte (SRC)	CAS Number	Minimum Concentration	Maximum Concentration	Detection Frequency	95% UCL	EPC	Background Value	10^{-6} RBGV	COPC?
Neptunium-237	13994-20-2(+D)	5.00E-04	2.40E-01	13/ 14	6.91E-01	2.40E-01	- - -	1.10E+00	NO:3
Plutonium-238	**13981-16-3**	**3.38E-03**	**8.44E+03**	**2758/5349**	**3.23E+01**	**3.23E+01**	**1.30E-01**	**6.12E+00**	**YES**
Plutonium-239	15117-48-3	9.00E-03	1.24E-01	2/ 4	4.77E+03	1.24E-01	- - -	6.03E+00	NO:3
Plutonium-239/240	OER-100-70	3.30E-03	2.01E+01	821/2560	5.83E-02	5.83E-02	1.80E-01	- - -	NO:4
Plutonium-241	14119-32-5	1.50E+00	2.95E+00	4/ 6	1.03E+01	2.95E+00	- - -	5.06E+02	NO:3
Plutonium-242	13982-10-0	3.72E-03	5.50E-01	15/ 26	6.59E-01	5.50E-01	- - -	6.33E+00	NO:3
Potassium-40	13966-00-2	1.32E-03	4.64E+01	1526/1533	1.89E+01	1.89E+01	3.70E+01	1.18E+00	NO:4
Protactinium-231	14331-85-2(+D)	1.43E+00	3.00E+00	5/1666	9.62E-01	9.62E-01	- - -	- - -	NO:1
Radium-224	13233-32-4	2.36E-01	2.50E+00	20/ 20	9.35E-01	9.35E-01	- - -	3.24E+00	NO:3
Radium-226	13982-63-3(+D)	2.81E-05	3.91E+00	2435/2603	8.23E-01	8.23E-01	2.00E+00	1.10E-01	NO:4
Radium-228 +L	**15262-20-1L**	**2.40E-01**	**2.48E+00**	**341/ 498**	**7.00E-01**	**7.00E-01**	**- - -**	**8.96E-02**	**YES**
Strontium-90	10098-97-2(+D)	2.00E-01	1.62E+00	25/ 168	5.09E-01	5.09E-01	7.20E-01	9.40E+00	NO:3
Thallium-208	14913-50-9	4.70E-02	5.70E-01	428/ 430	2.61E-01	2.61E-01	- - -	5.59E-02	NO:6
Thorium-227	15623-47-9	2.00E-02	6.00E-01	48/ 53	3.07E-01	3.07E-01	- - -	2.14E+00	NO:6
Thorium-228 +L	14274-82-9L	3.85E-02	2.50E+01	2471/2528	8.26E-01	8.26E-01	1.50E+00	1.19E-01	NO:4
Thorium-229	15594-54-4	4.90E-01	8.45E-01	2/1201	4.78E-01	4.78E-01	- - -	1.90E+00	NO:1
Thorium-230	14269-63-7(+D)	5.00E-02	1.34E+01	2485/2953	1.25E+00	1.25E+00	1.90E+00	9.26E-02	NO:4
Thorium-232	7440-29-1(+D)	5.60E-02	3.77E+01	2979/5392	8.16E-01	8.16E-01	1.40E+00	6.90E-02	NO:4
Thorium-232 Daughters	TH-232DA	4.10E-01	4.90E-01	2/ 2	- - -	4.90E-01	1.40E+00	- - -	NO:2
Thorium-234	15065-10-8	5.48E-01	5.41E+00	21/ 21	1.53E+00	1.53E+00	- - -	1.76E+01	NO:3
Tritium	10028-17-8p	6.80E-02	8.95E+02	341/ 549	4.21E+01	4.21E+01	1.60E+00	7.58E+03	NO:3
Uranium-233/234	**U-233/234**	**4.47E-01**	**1.02E+00**	**37/ 37**	**7.34E-01**	**7.34E-01**	**- - -**	**4.82E-01**	**YES**
Uranium-234	13966-29-5	2.01E-01	1.26E+01	420/ 425	9.01E-01	9.01E-01	1.10E+00	1.05E+01	NO:4
Uranium-235	15117-96-1(+D)	3.00E-03	1.02E+00	269/1465	3.67E-01	3.67E-01	1.10E-01	1.54E+00	NO:3
Uranium-235/236	13966-29-5	1.94E-02	6.78E-02	13/ 27	4.69E-02	4.69E-02	- - -	3.10E-01	NO:3
Uranium-238 +L	7440-61-1L	1.10E-01	1.10E+02	528/1651	9.17E-01	9.17E-01	1.20E+00	8.98E-02	NO:4

CAS - Chemical Abstract Service
COPC - Constituents of Potential Concern
EPC - Exposure Point Concentration
mg/kg - milligram per kilogram
ug/kg - microgram per kilogram
pCi/g - picocurie per gram
RBGV - Risk Based Guideline Value
UCL - Upper Confidence Limit
+D - Plus daughters up to the next long-lived daughter
+L - Includes long-lived daughters.

NO:1 - <5% Detects
NO:2 - Max<Background
NO:3 - Max< Risk Based Guideline Value
NO:4 - EPC< Background
NO:5 - Essential Human Nutrients
NO:6 - Part of a chain which has members above that are COPCs
*** Ac-227 background level assumes secular equilibrium with U235/236.
**** Pb-210, Pb-214 and Bi-214 background levels assume secular equilibrium with U-238.

Background values are base on the Operable Unit 9 Background Soils Investigation Chemistry Report (DOE 1994) or, in the case of nuclides with short half lives (Ac-227 Pb-210, and Pa-231) are based on the parent nuclide background and assumption of equilibrium with the parent nuclide.

- - - not applicable, not available, or not calculated due to insufficient toxicity data

Ra-228 note: A background value has not been calculated for Ra-228 and why none is provided in the table above. However, if Ra-228's parent nuclide background is considered (Th-232 at 1.4 pCi/g), Ra-228 would not be brought forward as a COPC. To be consistent with previous RREs, Ra-228 was presented with no background value and was brought forward as a COPC

Table 10

Identification of Constituents of Potential Concern for the Site Employee Exposed to Surface Soil in Parcel 8

Analyte (SRC)	CAS Number	Minimum Concentration	Maximum Concentration	Detection Frequency	95% UCL	EPC	Background Value	RBGV	COPC?
Inorganics (mg/kg)									
Aluminum	7429-90-5	1.59E+00	1.93E+04	147/ 148	1.20E+04	1.20E+04	1.90E+04	1.69E+05	NO:3
Antimony	7440-36-0	2.30E-01	6.90E+01	24/ 133	1.06E+01	1.06E+01	0.00E+00	8.18E+01	NO:3
Arsenic	7440-38-2	2.30E-03	1.33E+01	148/ 156	5.87E+00	5.87E+00	8.60E+00	2.26E+00	NO:4
Barium	7440-39-3	1.20E-02	6.23E+02	129/ 154	8.76E+01	8.76E+01	1.80E+02	1.25E+04	NO:3
Beryllium	7440-41-7	1.50E-04	1.30E+00	134/ 296	4.78E-01	4.78E-01	1.30E+00	3.70E+02	NO:3
Bismuth	7440-69-9	4.30E-01	1.01E+02	13/ 49	8.71E+00	8.71E+00	3.84E+01	---	NO:4
Cadmium	7440-43-9s	6.00E-02	2.42E+01	67/ 154	1.47E+00	1.47E+00	2.10E+00	1.01E+01	NO:4
Calcium	7440-70-2	1.33E+02	2.64E+05	147/ 148	1.63E+05	1.63E+05	3.10E+05	---	NO:2
Chromium	7440-47-3	3.60E-03	9.21E+01	150/ 154	1.70E+01	1.70E+01	2.00E+01	---	NO:4
Cobalt	7440-48-4	1.70E-03	2.80E+01	124/ 148	1.06E+01	1.06E+01	1.90E+01	1.93E+03	NO:3
Copper	7440-50-8	6.50E-03	3.82E+02	144/ 147	2.79E+01	2.79E+01	2.60E+01	8.18E+03	NO:3
Cyanide	57-12-5	1.20E-01	1.01E+01	22/ 119	8.64E-01	8.64E-01	0.00E+00	4.09E+03	NO:3
Erbium	7440-52-0	4.00E+01	6.87E+01	3/ 4	4.92E+08	6.87E+01	0.00E+00	---	YES
Iron	7439-89-6	4.33E+00	1.00E+05	150/ 151	2.41E+04	2.41E+04	3.50E+04	---	NO:4
Lead	7439-92-1	2.40E-03	3.10E+03	135/ 138	1.96E+01	1.96E+01	4.80E+01	---	NO:4
Lithium	7439-93-2	1.10E+00	3.93E+01	68/ 73	1.57E+01	1.57E+01	0.00E+00	---	YES
Magnesium	7439-95-4	4.31E+01	1.08E+05	147/ 148	4.53E+04	4.53E+04	4.00E+04	---	NO:5
Manganese	7439-96-5s	1.75E-01	8.31E+02	142/ 143	5.71E+02	5.71E+02	1.40E+03	3.25E+03	NO:2
Mercury	7439-97-6	2.00E-02	9.10E-01	38/ 150	9.08E-02	9.08E-02	1.50E-01	5.78E+04	NO:3
Molybdenum	7439-98-7	5.30E-01	1.64E+01	37/ 56	2.79E+00	2.79E+00	2.72E+01	1.02E+03	NO:2
Nickel	7440-02-0	4.20E-03	1.07E+02	136/ 148	2.28E+01	2.28E+01	3.20E+01	4.09E+03	NO:3
Potassium	7440-09-7	5.16E-01	5.15E+03	127/ 148	1.90E+03	1.90E+03	1.90E+03	---	NO:5
Selenium	7782-49-2	1.20E-01	2.30E+00	12/ 138	6.04E-01	6.04E-01	5.90E-01	1.02E+03	NO:3
Silver	7440-22-4	1.90E-01	1.89E+01	46/ 152	2.91E+00	2.91E+00	1.70E+00	1.02E+03	NO:3
Sodium	7440-23-5	3.23E-01	2.62E+03	119/ 151	6.71E+02	6.71E+02	2.40E+02	---	NO:5
Tantalum	7440-25-7	1.68E+02	4.44E+02	3/ 10	2.91E+02	4.44E+02	0.00E+00	---	YES
Thallium	7440-28-0	6.20E-04	5.50E+00	26/ 148	6.27E-01	8.27E-01	4.60E-01	1.35E+01	NO:3
Tin	7440-31-5	9.80E-01	8.00E+00	16/ 48	4.12E+00	4.12E+00	2.09E+01	1.23E+05	NO:2
Vanadium	7440-62-2	6.10E-03	4.88E+01	147/ 148	2.07E+01	2.07E+01	2.50E+01	2.04E+02	NO:3
Zinc	7440-66-6	1.20E-02	1.18E+03	143/ 144	1.00E+02	1.00E+02	1.40E+02	6.13E+04	NO:3
Dioxins & Dibenzofurans (µg/kg)									
1,2,3,4,6,7,8-HpCDD	35822-46-9	2.30E+00	2.30E+00	1/ 6	4.51E+02	2.30E+00	0.00E+00	0.00E+00	YES
HpCDD	37871-00-4	4.10E+00	4.10E+00	1/ 6	7.64E+02	4.10E+00	0.00E+00	3.81E+00	YES
OCDD	3268-87-9	3.10E-01	1.66E+01	2/ 6	1.77E+05	1.66E+01	0.00E+00	3.81E+01	NO:3
Pesticides/PCBs (µg/kg)									
4,4'-DDD	72-54-8	2.40E-01	2.40E-01	1/ 109	1.20E+01	2.40E-01	0.00E+00	2.38E+04	NO:1
4,4'-DDE	72-55-9	2.20E-01	3.10E+00	6/ 109	1.14E+01	3.10E+00	0.00E+00	1.68E+04	NO:3
4,4'-DDT	50-29-3	9.00E-01	2.70E+01	9/ 108	1.22E+01	1.22E+01	0.00E+00	9.56E+03	NO:3
Aldrin	309-00-2	5.70E-02	1.40E+00	8/ 109	6.30E+00	1.40E+00	0.00E+00	1.03E+02	NO:3
Alpha Chlordane**	5103-71-9	2.70E-02	1.50E+00	9/ 108	1.19E+02	1.50E+00	0.00E+00	7.64E+03	NO:3
Alpha-BHC	319-84-6	4.30E-02	2.50E+00	7/ 109	6.47E+00	2.50E+00	0.00E+00	9.08E+02	NO:3
Aroclor-1248	12672-29-6	1.80E+01	1.80E+01	1/ 116	6.84E+01	1.80E+01	0.00E+00	0.00E+00	NO:1
Aroclor-1254	11097-69-1	1.50E+01	6.30E+01	9/ 116	1.45E+02	6.30E+01	0.00E+00	6.83E+02	NO:3
Aroclor-1260	11096-82-5	1.50E+01	4.40E+01	2/ 115	1.42E+02	4.40E+01	0.00E+00	0.00E+00	NO:1
Beta-BHC	319-85-7	6.60E-01	1.30E+01	2/ 109	6.02E+00	6.02E+00	0.00E+00	3.18E+03	NO:1
Delta-BHC	319-86-8	1.20E-01	4.10E-01	5/ 109	7.44E+00	4.10E-01	0.00E+00	0.00E+00	NO:1
Dieldrin	60-57-1	7.80E-02	5.00E+01	10/ 109	1.21E+01	1.21E+01	0.00E+00	3.58E+02	NO:3
Endosulfan I	959-98-8	4.80E-01	4.80E-01	1/ 109	8.03E+00	4.80E-01	0.00E+00	0.00E+00	NO:1
Endosulfan II	33213-65-9	1.50E-01	4.40E+00	8/ 109	1.06E+01	4.40E+00	0.00E+00	0.00E+00	YES
Endosulfan Sulfate	1031-07-8	2.20E-01	1.30E+00	6/ 109	1.91E+01	1.30E+00	0.00E+00	0.00E+00	YES
Endrin	72-20-8	1.80E+00	4.10E+00	4/ 109	1.04E+01	4.10E+00	0.00E+00	6.13E+04	NO:1
Endrin Aldehyde	7421-93-4	1.30E-01	1.40E+01	7/ 93	1.20E+01	1.20E+01	0.00E+00	0.00E+00	YES
Endrin Ketone	53494-70-5	1.60E-01	5.40E+00	6/ 109	1.75E+01	5.40E+00	0.00E+00	0.00E+00	YES
Gamma Chlordane	5103-74-2	6.80E-01	5.10E+00	6/ 108	1.06E+02	5.10E+00	0.00E+00	7.64E+03	NO:3
Gamma-BHC (Lindane)	58-89-9	4.30E-01	4.30E-01	1/ 109	5.45E+00	4.30E-01	0.00E+00	4.40E+03	NO:1
Heptachlor	76-44-8	2.00E-01	2.00E-01	1/ 109	5.20E+00	2.00E-01	0.00E+00	1.27E+03	NO:1
Heptachlor Epoxide	1024-57-3	1.40E-01	6.80E-01	7/ 109	1.14E+01	6.80E-01	0.00E+00	6.29E+02	NO:3
Methoxychlor	72-43-5	1.50E+00	1.00E+02	2/ 109	8.37E+01	8.37E+01	0.00E+00	1.02E+06	NO:1
Semi-Volatile Organic Compounds (µg/kg)									
1,2-Dichlorobenzene	95-50-1	6.40E-01	6.40E-01	1/ 133	4.50E+02	6.40E-01	0.00E+00	2.92E+00	NO:1
2,4-Dimethylphenol	105-67-9	3.10E+04	3.10E+04	1/ 130	3.93E+02	3.93E+02	0.00E+00	1.25E+06	NO:1
2-Benzyl-4-Chlorophenol	120-32-1	1.20E+02	1.20E+02	1/ 17	2.03E+02	1.20E+02	0.00E+00	0.00E+00	YES
2-Methylnaphthalene	91-57-6	2.50E+01	2.30E+04	9/ 145	7.32E+02	7.32E+02	0.00E+00	8.18E+05	NO:3
2-Methylphenol	95-48-7	1.30E+04	1.30E+04	1/ 133	3.69E+02	3.69E+02	0.00E+00	1.02E+07	NO:1
3,3'-Dichlorobenzidine	91-94-1	4.80E+01	4.80E+01	1/ 130	6.12E+02	4.80E+01	0.00E+00	3.88E+03	NO:1
4-Methylphenol	106-44-5	4.60E+01	2.50E+04	2/ 133	4.01E+02	4.01E+02	0.00E+00	1.02E+06	NO:1
Acenaphthene	83-32-9	1.90E+01	5.10E+03	22/ 145	7.35E+02	7.35E+02	0.00E+00	3.09E+06	NO:3
Acenaphthylene	208-96-8	3.50E+01	7.30E+02	6/ 145	6.75E+02	6.75E+02	0.00E+00	0.00E+00	NO:1
Anthracene	120-12-7	1.90E+01	3.80E+04	35/ 145	9.03E+02	9.03E+02	0.00E+00	1.55E+07	NO:3
Benzo(a)anthracene	56-55-3	2.00E+01	9.60E+04	54/ 145	1.00E+03	1.00E+03	0.00E+00	1.98E+03	YES
Benzo(a)pyrene	50-32-8	2.00E+01	1.10E+05	54/ 145	9.27E+02	9.27E+02	0.00E+00	1.98E+02	YES
Benzo(b)fluoranthene	205-99-2	2.20E+01	1.20E+05	56/ 145	1.01E+03	1.01E+03	0.00E+00	1.98E+03	YES
Benzo(g,h,i)perylene	191-24-2	2.00E+01	1.65E+05	47/ 145	1.04E+03	1.04E+03	0.00E+00	0.00E+00	YES
Benzo(k)fluoranthene	207-08-9	1.90E+01	1.10E+05	52/ 145	9.73E+02	9.73E+02	0.00E+00	1.98E+04	YES
Benzoic Acid	65-85-0	4.50E+01	1.70E+02	5/ 72	1.91E+03	1.70E+02	0.00E+00	2.49E+08	NO:3

Table 10

Identification of Constituents of Potential Concern for the Site Employee Exposed to Surface Soil in Parcel 8

Analyte (SRC)	CAS Number	Minimum Concentration	Maximum Concentration	Detection Frequency	95% UCL	EPC	Background Value	RBGV	COPC?
Benzyl Alcohol	100-51-6	1.70E+04	1.70E+04	1/ 73	3.87E+02	3.87E+02	0.00E+00	1.87E+07	NO:1
Bis(2-ethylhexyl)phthalate	117-81-7	3.10E+01	2.30E+03	79/ 130	4.01E+02	4.01E+02	0.00E+00	1.25E+05	NO:3
Butyl Benzyl Phthalate	85-68-7	3.20E+01	5.20E+02	15/ 130	3.71E+02	3.71E+02	0.00E+00	1.25E+07	NO:3
Carbazole	86-74-8	1.90E+01	1.70E+03	23/ 74	4.48E+02	4.48E+02	0.00E+00	8.72E+04	NO:3
Chrysene	218-01-9	2.60E+01	1.20E+05	55/ 132	9.38E+02	9.38E+02	0.00E+00	1.98E+05	NO:3
Dibenz(a,h)anthracene	**53-70-3**	**2.00E+01**	**7.50E+02**	**27/ 143**	**7.40E+02**	**7.40E+02**	**0.00E+00**	**1.98E+02**	**YES**
Dibenzofuran	132-64-9	2.80E+01	1.10E+03	15/ 130	3.85E+02	3.85E+02	0.00E+00	1.25E+05	NO:3
Diethyl Phthalate	84-66-2	2.00E+01	1.00E+02	3/ 130	3.56E+02	1.00E+02	0.00E+00	4.99E+07	NO:1
Dimethyl Phthalate	131-11-3	1.30E+02	1.30E+02	1/ 130	3.52E+02	1.30E+02	0.00E+00	2.04E+09	NO:1
Di-n-butyl Phthalate	84-74-2	1.90E+01	7.80E+04	28/ 130	3.76E+02	3.76E+02	0.00E+00	6.23E+06	NO:3
Di-n-octyl Phthalate	117-84-0	2.70E+01	3.50E+05	16/ 130	3.81E+02	3.81E+02	0.00E+00	8.18E+06	NO:3
Fluoranthene	206-44-0	2.40E+01	1.80E+05	72/ 145	1.31E+03	1.31E+03	0.00E+00	2.06E+06	NO:3
Fluorene	86-73-7	2.30E+01	2.10E+04	24/ 145	8.29E+02	8.29E+02	0.00E+00	2.06E+06	NO:3
Hexachlorobenzene	118-74-1	4.90E+01	4.90E+01	1/ 133	3.48E+02	4.90E+01	0.00E+00	1.09E+03	NO:1
Indeno(1,2,3-cd)pyrene	**193-39-5**	**1.60E+01**	**1.20E+05**	**45/ 143**	**8.09E+02**	**8.09E+02**	**0.00E+00**	**1.98E+03**	**YES**
Isophorone	78-59-1	4.10E+02	7.80E+02	2/ 130	3.33E+02	3.33E+02	0.00E+00	1.84E+06	NO:1
N-Nitroso-di-n-propylamine	621-64-7	7.40E+02	7.40E+02	1/ 130	3.45E+02	3.45E+02	0.00E+00	2.49E+02	NO:1
N-Nitrosodiphenylamine	86-30-6	1.50E+02	1.50E+02	1/ 130	3.50E+02	1.50E+02	0.00E+00	3.56E+05	NO:1
Pentachlorophenol	87-86-5	1.80E+02	1.90E+02	2/ 133	1.34E+03	1.90E+02	0.00E+00	7.12E+03	NO:1
Phenanthrene	**85-01-8**	**1.80E+01**	**1.00E+05**	**61/ 145**	**1.42E+03**	**1.42E+03**	**0.00E+00**	**0.00E+00**	**YES**
Phenol	108-95-2	2.20E+04	2.20E+04	1/ 133	3.79E+02	3.79E+02	0.00E+00	1.87E+07	NO:1
Pyrene	129-00-0	1.90E+01	1.60E+05	69/ 145	1.28E+03	1.28E+03	0.00E+00	1.55E+06	NO:3
Volatile Organic Compounds (µg/kg)									
1,1,1-Trichloroethane	71-55-6	3.00E+00	1.10E+01	4/ 138	4.20E+00	4.20E+00	0.00E+00	5.72E+07	NO:1
1,2-cis-Dichloroethene (DCE)	156-59-2	2.37E-01	1.12E+03	11/ 13	3.04E+04	1.12E+03	0.00E+00	2.04E+06	NO:3
1,2-Dichloroethane	107-06-2	1.00E+00	1.00E+00	1/ 141	4.12E+00	1.00E+00	0.00E+00	6.29E+04	NO:1
1,2-Dichloroethene	540-59-0	4.33E-01	1.16E+03	12/ 148	6.48E+00	6.48E+00	0.00E+00	1.84E+06	NO:3
1,2-trans-Dichloroethene	156-60-5	3.61E+01	4.38E+02	2/ 16	6.82E+03	4.38E+02	0.00E+00	4.09E+06	NO:3
2-Butanone	78-93-3	1.00E+00	2.10E+01	11/ 140	9.60E+00	9.60E+00	0.00E+00	1.23E+08	NO:3
2-Hexanone	591-78-6	3.00E+00	6.10E+01	3/ 138	8.66E+00	8.66E+00	0.00E+00	0.00E+00	NO:1
4-Methyl-2-pentanone	108-10-1	6.00E-01	2.00E+01	5/ 138	8.49E+00	8.49E+00	0.00E+00	1.64E+07	NO:1
Acetone	67-64-1	3.00E+00	2.10E+02	61/ 136	2.20E+01	2.20E+01	0.00E+00	1.84E+08	NO:3
Acetonitrile	**75-05-8**	**6.70E+01**	**6.70E+01**	**1/ 20**	**7.99E+01**	**6.70E+01**	**0.00E+00**	**0.00E+00**	**YES**
rylonitrile	107-13-1	8.00E+00	8.00E+00	1/ 23	1.93E+02	8.00E+00	0.00E+00	1.06E+04	NO:1
nzene	71-43-2	1.00E+00	2.00E+00	2/ 159	4.14E+00	2.00E+00	0.00E+00	1.04E+05	NO:1
Carbon Disulfide	75-15-0	3.00E+00	9.00E+00	2/ 138	4.37E+00	4.37E+00	0.00E+00	2.04E+07	NO:1
Carbon Tetrachloride	56-23-5	2.00E+00	2.00E+00	1/ 141	4.32E+00	2.00E+00	0.00E+00	4.40E+04	NO:1
Chlorobenzene	108-90-7	2.00E+00	2.00E+00	1/ 141	4.11E+00	2.00E+00	0.00E+00	4.09E+06	NO:1
Chloromethane	74-87-3	6.00E+00	6.00E+00	1/ 138	6.45E+00	6.00E+00	0.00E+00	0.00E+00	NO:1
Dichloromethane (Methylene Chloride)	75-09-2	1.00E+00	1.40E+03	88/ 138	2.76E+01	2.76E+01	0.00E+00	7.63E+05	NO:3
Ethylbenzene	100-41-4	8.00E-01	1.70E+01	8/ 156	4.08E+00	4.08E+00	0.00E+00	2.04E+07	NO:3
FREON-113	76-13-1	2.00E+00	2.00E+00	1/ 37	6.54E+00	2.00E+00	0.00E+00	6.13E+09	NO:1
Naphthalene	91-20-3	4.50E+01	4.50E+03	10/ 145	7.11E+02	7.11E+02	0.00E+00	1.24E+06	NO:3
Styrene	100-42-5	6.00E-01	2.00E+00	4/ 138	4.26E+00	2.00E+00	0.00E+00	4.09E+07	NO:1
Tetrachloroethene (PCE)	127-18-4	2.58E-01	2.54E+03	18/ 154	8.96E+00	8.96E+00	0.00E+00	1.06E+04	NO:3
Toluene	108-88-3	5.70E-01	7.00E+01	23/ 156	4.36E+00	4.36E+00	0.00E+00	4.09E+07	NO:3
Trichloroethylene (TCE)	79-01-6	2.81E-01	9.52E+03	22/ 154	9.64E+00	9.64E+00	0.00E+00	1.43E+04	NO:3
Trichloromethane (Cholorform)	67-66-3	3.00E-01	2.00E+00	8/ 141	4.01E+00	2.00E+00	0.00E+00	2.04E+06	NO:3
Vinyl Chloride	75-01-4	3.86E-01	6.82E+01	5/ 154	9.14E+00	9.14E+00	0.00E+00	3.82E+03	NO:1
Xylenes, Total	1330-20-7	3.00E-01	1.50E+02	12/ 156	4.56E+00	4.56E+00	0.00E+00	4.09E+07	NO:3
Radionuclides (pCi/g)									
Actinium-227 +L***	**14952-40-0L**	**3.80E-02**	**2.65E+00**	**296/2160**	**2.64E-01**	**2.64E-01**	**1.10E-01**	**5.02E-01**	**YES**
Actinium-228	14331-83-0	3.80E-05	2.48E+00	998/1309	6.69E-01	6.69E-01	0.00E+00	2.01E-01	NO:6
Americium-241	**14596-10-2**	**3.00E-02**	**3.36E+01**	**209/2258**	**1.07E-01**	**1.07E-01**	**0.00E+00**	**9.93E+00**	**YES**
Bismuth-207	13982-38-2	1.00E-02	1.53E-01	7/1562	3.57E-02	3.57E-02	0.00E+00	1.29E-01	NO:1
Bismuth-210M	BI-210M	9.70E-02	2.41E+00	30/1518	5.06E-02	5.06E-02	0.00E+00	8.67E-01	NO:1
Bismuth-212	14913-49-6	5.30E-01	2.40E+00	36/ 37	1.48E+00	1.48E+00	0.00E+00	1.03E+00	NO:6
Bismuth-214 ****	14733-03-0	2.81E-05	1.97E+00	1366/1381	6.18E-01	6.18E-01	1.20E+00	1.22E-01	NO:4
Cesium-137	10045-97-3(+D)	1.00E-02	1.40E+00	253/2281	5.61E-02	5.61E-02	4.20E-01	3.56E-01	NO:4
Cobalt-60	10198-40-0	1.00E-02	1.01E+00	33/2245	5.15E-02	5.15E-02	0.00E+00	7.35E-02	NO:1
Lead-210 +D ****	14255-04-0(+D)	2.40E-01	1.17E+01	374/2066	1.13E+00	1.13E+00	1.20E+00	1.19E+00	NO:4
Lead-212	15092-94-1	3.44E-05	2.67E+00	1400/1406	6.51E-01	6.51E-01	1.50E+00	1.73E+00	NO:4
Lead-214 ****	15067-28-4	2.10E-01	1.32E+00	480/ 482	5.99E-01	5.99E-01	1.20E+00	9.29E-01	NO:4
Neptunium-237	13994-20-2(+D)	2.00E-02	2.40E-01	4/ 4	3.16E+05	2.40E-01	0.00E+00	1.08E+00	NO:3
Plutonium-238	**13981-16-3**	**4.74E-03**	**8.44E+03**	**2473/4317**	**2.59E+01**	**2.59E+01**	**1.30E-01**	**1.13E+01**	**YES**
Plutonium-239	15117-48-3	9.00E-03	1.24E-01	2/ 4	4.77E+03	1.24E-01	0.00E+00	1.12E+01	NO:3
Plutonium-239/240	OER-100-70	3.30E-03	2.01E+01	788/2330	6.02E-02	6.02E-02	1.80E-01	1.11E+01	NO:4
Plutonium-242	13982-10-0	1.40E-01	5.50E-01	4/ 5	2.78E+02	5.50E-01	0.00E+00	1.17E+01	NO:3
Potassium-40	13966-00-2	1.32E-03	4.64E+01	1468/1471	1.88E+01	1.88E+01	3.70E+01	1.12E+00	NO:4
Radium-224	13233-32-4	2.36E-01	2.50E+00	8/ 8	1.97E+00	2.50E+00	1.50E+00	5.47E+00	NO:3
Radium-226	13982-63-3(+D)	2.81E-05	3.91E+00	2124/2249	7.96E-01	7.96E-01	2.00E+00	1.05E-01	NO:4
Radium-228 +L	**15262-20-1L**	**2.40E-01**	**2.48E+00**	**327/ 483**	**7.00E-01**	**7.00E-01**	**0.00E+00**	**6.92E-02**	**YES**
ontium-90	10098-97-2(+D)	4.60E-01	1.62E+00	14/ 118	5.55E-01	5.55E-01	7.20E-01	1.50E+01	NO:3
allium-208	14913-50-9	4.70E-02	5.70E-01	428/ 430	2.61E-01	2.61E-01	0.00E+00	5.18E-02	NO:6
horium-227	15623-47-9	2.00E-02	6.00E-01	48/ 53	3.07E-01	3.07E-01	0.00E+00	2.17E+00	NO:3
horium-228 +L	14274-82-9L	3.85E-02	2.50E+01	2272/2291	7.96E-01	7.96E-01	1.50E+00	1.14E-01	NO:4
Thorium-230	14269-63-7(+D)	5.00E-02	5.23E+00	2281/2600	1.15E+00	1.15E+00	1.90E+00	9.58E-02	NO:4
Thorium-232	7440-29-1(+D)	5.60E-02	3.77E+01	2606/4290	7.52E-01	7.52E-01	1.40E+00	6.88E-02	NO:4
Thorium-232 Daughters (PCI/G)	7440-29-1	4.10E-01	4.90E-01	2/ 2	0.00E+00	4.90E-01	1.40E+00	0.00E+00	NO:2

Table 10

Identification of Constituents of Potential Concern for the Site Employee Exposed to Surface Soil in Parcel 8

Analyte (SRC)	CAS Number	Minimum Concentration	Maximum Concentration	Detection Frequency	95% UCL	EPC	Background Value	RBGV	COPC?
Thorium-234	15065-10-8	6.26E-01	5.41E+00	9/ 9	3.14E+00	5.41E+00	0.00E+00	2.58E+01	NO:3
Tritium	10028-17-8p	6.80E-02	8.95E+02	292/ 436	5.43E+01	5.43E+01	1.60E+00	1.45E+04	NO:3
Uranium-233/234	**13966-29-5**	**4.47E-01**	**8.13E-01**	**12/ 12**	**6.86E-01**	**8.13E-01**	**0.00E+00**	**5.52E-01**	**YES**
Uranium-234	13966-29-5	2.01E-01	1.26E+01	309/ 310	8.97E-01	8.97E-01	1.10E+00	1.97E+01	NO:3
Uranium-235	15117-96-1(+D)	3.00E-03	1.02E+00	188/1318	4.01E-01	4.01E-01	1.10E-01	1.55E+00	NO:3
Uranium-235/236	15117-96-1	4.82E-02	4.82E-02	1/ 4	2.02E-01	4.82E-02	0.00E+00	3.32E-01	NO:3
Uranium-238 +L	7440-61-1L	1.10E-01	1.10E+02	372/1421	8.41E-01	8.41E-01	1.20E+00	9.36E-02	NO:4

CAS - Chemical Abstract Service
COPC - Constituents of Potential Concern
EPC - Exposure Point Concentration
mg/kg - milligram per kilogram
ug/kg - microgram per kilogram
pCi/g - picocurie per gram
RBGV - Risk Based Guideline Value
UCL - Upper Confidence Limit
+D - Plus daughters up to the next long-lived daughter
+L - Includes long-lived daughters.

NO:1 - <5% Detects
NO:2 - Max<Background
NO:3 - Max< Risk Based Guideline Value
NO:4 - EPC< Background
NO:5 Essential Human Nutrients
NO:6 Part of a Chain that has members above that are COPCs
*** Ac-227 background level assumes secular equilibrium with U235/236.
**** Pb-210, Pb-214 and Bi-214 background levels assume secular equilibrium with U-238.
Bold text indicates COPCs selected

Lithium note: The RREM background value for lithium is 26 mg/kg and not 0.00 mg/kg as presented in this table, however, since the analyte would still become a COPC, the value in the table was not modified.

- - - not applicable, not available, or not calculated due to insufficient toxicity data

Background values are base on the Operable Unit 9 Background Soils Investigation Chemistry Report (DOE 1994) or, in the case of nuclides with short half lives (Ac-227 Pb-210, and Pa-231) are based on the parent nuclide background and assumption of equilibrium with the parent nuclide.

Ra-228 note: A background value has not been calculated for Ra-228 and why none is provided in the table above. However, if Ra-228's parent nuclide background is considered (Th-232 at 1.4 pCi/g), Ra-228 would not be brought forward as a COPC. To be consistent with previous RREs, Ra-228 was presented with no background value and was brought forward as a COPC

Table 11: Building Analysis Summary

	Asbestos	Lead	Radon	Radiological Surveys	PCBs
Building 2	Present, No remediation needed	None identified	No abatement required	N/A	May be present in flourescent lamp ballasts
Building 28	Present, No remediation needed	Assumed Present, No remediation needed	No abatement required	Met surface contamination guidelines	None identified
Building 45	Present, No remediation needed	Assumed Present, No remediation needed	No abatement required	Met surface contamination guidelines	May be present in flourescent lamp ballasts
Building 61	Unlikely to be present	None identified	No abatement required	Met surface contamination guidelines	None identified
Building 63	Present, No remediation needed	Unlikely to be present	No abatement required	Met surface contamination guidelines	None identified
Building 126	Unlikely to be present	Unlikely to be present	No abatement required	Met surface contamination guidelines	May be present in flourescent lamp ballasts
Building COS	None identified	Unlikely to be present	No abatement required	Met surface contamination guidelines	May be present in flourescent lamp ballasts
Building OSE	Unlikely to be present	Unlikely to be present	No abatement required	Met surface contamination guidelines	None identified
Building OSW	Present, No remediation needed	None identified	No abatement required	Met surface contamination guidelines	May be present in flourescent lamp ballasts
Building T	Present, No remediation needed	Assumed Present, No remediation needed	No abatement required	Met surface contamination guidelines	None identified

APPENDIX C

Legal Description of Parcels 6, 7, and 8

The contents of the appendix are:

Description of Parcel 6

Description of Parcel 7

Description of Parcel 8

PARCEL 6
LEGAL DESCRIPTION

Exhibit "A"
DESCRIPTION OF
13.636 Acres
Parcel 6
located in
Section 30 and 36, Town 2, Range 5, M.Rs.
City of Miamisburg, Montgomery County, Ohio

Situate in Section 30 and 36, Town 2, Range 5, M.Rs., City of Miamisburg, County of Montgomery, State of Ohio, ***being part of a 87.28 acre tract conveyed to the United States of America, as recorded in Deed Book Volume 1214, Page 12*** of the Deed Records of Montgomery County, Ohio, said 87.28 acre tract being comprised of a 59.75 acre tract, also a 19.40 acre tract, also a 9.97 acre tract, also a 0.78 acre tract and a 0.78 acre tract all known as Lot Numbered 2259 of the consecutive numbered lots of the City of Miamisburg, ***also being part of a 33.11 acre tract conveyed to the United States of America, as recorded in Deed Book Volume 1246, Page 45*** of the Deed Records of Montgomery County, Ohio, said 33.11 acre tract being known as Lot Numbered 2290 of the consecutive numbered lots of the City of Miamisburg, ***also being part of a 1.61 acre tract conveyed to the United States of America, as recorded in Deed Book Volume 1256, Page 179,*** of the Deed Records of Montgomery County, Ohio, said 1.61 acre tract being known as Lot Numbered 2290 of the consecutive numbered lots of the City of Miamisburg, ***being a new division of 13.635 acres from said 87.28 acre tract, 33.11 acre tract, and all the remainder of said 1.61 acre tract*** and being more fully bounded and described as follows:

Commencing at a "DOE" concrete monument found disturbed, said monument being the northwest corner of Section 30, said monument being the northeast corner of Section 36, said monument also being the northeasterly corner of a 6.63 acre tract (by deed) conveyed to the City of Miamisburg, Ohio, as recorded in Deed Book Volume 594, Page 410 of the Deed Records of Montgomery County, Ohio; thence with the east line of said City of Miamisburg 6.63 acre tract, the east line of Section 36 and the west line of Section 30, South 05° 16' 42" West, a distance of 130.25 feet to a point, witness a 1" pinched top pipe found, South 65° 36' 29" West, 1.28 feet, said pipe being the northwest corner of a 14.288 acre tract conveyed to Miamisburg Mound Community Improvement Corporation, as recorded in Deed Microfiche No. 99-0852B11 of the Deed Records of Montgomery County, Ohio, said 14.288 acre tract known as Parcel "H" of the recorded Mound Surveys, said 14.288 acre tract also known as Part of Lot Numbered 2259 of the consecutive numbered lots of the City of Miamisburg, Ohio, reference previous survey by HLS Surveyors & Engineers as recorded in Montgomery County Engineer's Record of Land Surveys Volume 1999, Page 0326, said pipe also being the northeasterly corner of a 4.805 acre tract conveyed to Miamisburg Mound Community Improvement Corporation, as recorded in Deed Microfiche No. _____ of the Deed Records of Montgomery County, Ohio, said 4.805 acre tract known as Parcel 3 of the recorded Mound Surveys, said 4.805 acre tract also known as Part of Lot Numbered 2259 and 2290 of the consecutive numbered lots of the City of Miamisburg, Ohio, reference previous survey by HLS Surveyors & Engineers as recorded in the Montgomery County Engineer's Record of Land Surveys, Volume 1999, Page 140; thence from said point with the northwesterly line of said 4.805 acre tract known as Parcel 3 and the southeasterly line of said City of Miamisburg 6.63 acre tract, South 65° 36' 29" West, a distance of 479.79 feet to a 5/8" capped "Schram" iron pin found, said pin set per previous survey reference, said iron pin being a westerly corner of said 4.805 acre tract known as Parcel 3, said iron pin being the **True Point of Beginning** of the hereinafter described new division of 13.636 acres;

Thence with a common boundary with said 4.805 acre tract known as Parcel 3 on the following thirteen (13) courses,

1) **South 24° 26' 30" East**, passing a point on the common boundary line of said United States of America 1.61 acre tract and said United States of America 87.28 acre tract at 87.13 feet, in all a distance of **308.52 feet to a 2-1/2" mag nail set;**
2) **Thence, South 65° 33' 30" West**, a distance of **7.67 feet to a railroad spike found**, said spike set per previous survey reference;
3) **Thence, South 24° 26' 30" East**, a distance of **24.31 feet to a 5/8" capped "LeRoy" iron pin found**, said iron pin per previous survey reference;
4) **Thence, North 65° 11' 32" East**, a distance of **268.32 feet to a cross notch found**, said cross notch set per previous survey reference;
5) **Thence, North 24° 54' 45" West**, a distance of **59.55 feet to a railroad spike found**, said spike set per previous survey reference;
6) **Thence, North 65° 05' 15" East**, a distance of **34.64 feet to a railroad spike found**, said spike set per previous survey reference;
7) **Thence, South 59° 41' 15" East**, passing a point on the east line of Section 36 and the west line of Section 30 at 29.11 feet, in all a distance of **32.00 feet to a railroad spike found**, said spike set per previous survey reference;
8) **Thence, South 23° 47' 05" East**, a distance of **359.64 feet to a railroad spike found**, said spike set per previous survey reference;
9) **Thence, North 66° 03' 34" East**, a distance of **39.97 feet to a railroad spike found**, said spike set per previous survey reference;
10) **Thence, South 50° 06' 58" East**, a distance of **22.74 feet to a 5/8" capped "Schram" iron pin found**, said iron pin per previous survey reference;
11) **Thence, North 64° 44' 27" East**, a distance of **98.64 feet to a 5/8" capped "Schram" iron pin found**, said iron pin per previous survey reference;
12) **Thence, North 23° 05' 32" West**, a distance of **17.73 feet to a 5/8" capped "Schram" iron pin found**, said iron pin per previous survey reference;
13) **Thence, North 40° 10' 30" East**, a distance of **91.47 feet to a 5/8" capped "LeRoy" iron pin found**, said iron pin per previous survey reference, said iron pin lying in the southwesterly line of said Miamisburg Mound Community Improvement Corporation 14.288 acre tract, said iron pin lying in a radial line having a radius to the left and a radial bearing of North 36° 23' 40" East;

Thence with the southwesterly and southerly line of said Miamisburg Mound Community Improvement Corporation 14.288 acre tract on the following two (2) courses,

1) with a curve to the left having **a delta angle of 30° 15' 10", a radius of 360.67 feet, an arc length of 190.44 feet and a chord bearing and distance of South 68° 43' 56" East, 188.23 feet to a 5/8" capped "LeRoy" iron pin found**, said iron pin per previous survey reference, said iron pin being the point of tangency of said curve;
2) **Thence, South 83° 51' 21" East**, a distance of **25.00 feet to a 5/8" iron pin set**, said iron pin being the northeasterly corner of the herein described new division;

Thence with a new division line through said United States of America 87.28 acre tract and said United States of America 33.11 acre tract on the following eighteen (18) courses,

1) **South 40° 32' 20" West, a distance of 86.35 feet to a 5/8" iron pin set,** said iron pin being a non-tangential point at the beginning of a curve to the left and having a radial bearing of South 10° 26' 59" East;

2) **Thence** with a curve to the left having **a delta angle of 42° 00' 18", a radius of 223.57 feet, an arc length of 163.90 feet and a chord bearing and distance of South 58° 32' 52" West, 160.26 feet to a 5/8" iron pin set;**

3) **Thence, South 37° 32' 43" West,** a distance of **70.00 feet to a 5/8" iron pin set;**

4) **Thence, South 31° 32' 43" West,** a distance of **65.00 feet to a 5/8" iron pin set;**

5) **Thence, South 27° 32' 43" West,** a distance of **60.00 feet to a 5/8" iron pin set at a point of curvature to the right;**

6) **Thence** with a curve to the right having **a delta angle of 20° 18' 39", a radius of 349.79 feet, an arc length of 124.00 feet and a chord bearing and distance of South 37° 42' 02" West, 123.35 feet to a 5/8" iron pin set;**

7) **Thence, South 47° 51' 21" West,** a distance of **162.02 feet to a 5/8" iron pin set;**

8) **Thence, North 88° 48' 49" West,** a distance of **34.05 feet to a cross notch set in a concrete walk;**

9) **Thence, North 52° 01' 06" West,** a distance of **45.26 feet to a 5/8" iron pin set;**

10) **Thence, North 15° 43' 55" East,** a distance of **99.81 feet to a 5/8" iron pin set;**

11) **Thence, North 23° 23' 40" West,** passing a point on the east line of Section 36 and the west line of Section 30 at 143.57 feet, reference from said point a railroad spike found, South 05° 16' 42" West, 4400.37 feet, said spike being the south section corner of Section 30 and 36, also a concrete monument found, disturbed, North 05° 16' 42" East, 1006.61 feet, said concrete monument being the north corner of Section 30 and 36, in all a distance of **349.18 feet to a 5/8" iron pin set;**

12) **Thence, South 65° 40' 00" West,** a distance of **328.05 feet to a 5/8" iron pin set;**

13) **Thence, South 65° 00' 16" West,** passing a point on the common boundary line of said United States of America 33.11 acre tract and said United States of America 87.28 acre tract at 137.10 feet, in all a distance of **186.04 feet to a 5/8" iron pin set;**

14) **Thence, North 24° 22' 42" West,** passing a point on the common boundary line of said United States of America 33.11 acre tract and said United States of America 87.28 acre tract at 26.80 feet, in all a distance of **206.00 feet to a 5/8" iron pin set;**

15) **Thence, South 65° 37' 18" West,** passing a point on the common boundary line of said United States of America 33.11 acre tract and said United States of America 87.28 acre tract at 69.30 feet, in all a distance of **123.40 feet to a 5/8" iron pin set;**

16) **Thence, North 24° 17' 30" West,** a distance of **124.98 feet to a 5/8" iron pin set;**

17) **Thence, South 65° 44' 19" West,** a distance of **138.10 feet to a 5/8" iron pin set;**

18) **Thence, North 24° 15' 41" West,** a distance of **127.04 feet to a 5/8" iron pin set,** said iron pin lying in the northwesterly line of said United States of America 33.11 acre tract, said iron pin lying in the southeasterly line of the Consolidated Rail Corporation lands as conveyed in Deed Microfiche No. 78-502A01 of the Deed Records of Montgomery County, Ohio, said common boundary line being an curve to the right having a radial bearing of South 60° 51' 35" East;

Thence with the northwesterly line of said United States of America 33.11 acre tract and the southeasterly line of said Consolidated Rail Corporation lands with a curve to the right having **a delta angle of 06° 49' 51", a radius of 3519.83 feet, an arc length of 419.64 feet and a chord bearing and distance of North 32° 33' 20" East, 419.39 feet to a "DOE" concrete monument found,** said monument being the northwest corner of said United States of America 33.11 acre tract;

Thence with the north line of said United States of America 33.11 acre tract, **South 84° 14' 50" East**, a distance of **102.31 feet to a "DOE" concrete monument found**, said monument being the northeast corner of said United States of America 33.11 acre tract, said monument lying in the west line of said City of Miamisburg 6.63 acre tract;

Thence with the east line of said United States of America 33.11 acre tract and the west line of said City of Miamisburg 6.63 acre tract, **South 05° 37' 45" West**, a distance of **90.34 feet to a "DOE" concrete monument found**, said monument being the northwest corner of said United States of America 1.61 acre tract, said monument being the southwest corner of said City of Miamisburg 6.63 acre tract;

Thence with the northwesterly line of said United States of America 1.61 acre tract and the southeasterly line of said City of Miamisburg 6.63 acre tract, **North 65° 36' 29" East**, a distance of **330.66 feet to the True Point of Beginning**, containing **13.636 acres**, more or less, of which ***4.173 acres lying in Section 30, 9.463 acres lying in Section 36***, of which ***4.173 acres being part of Lot Numbered 2259, 9.463 acres being part of Lot Numbered 2290, 6.431 acres being part of said United States of America 87.28 acre tract, 2.320 acres being part of said United States of America 33.11 acre tract and 0.712 acres being part of said United States of America 1.61 acre tract***, all of the consecutive numbered lots of the City of Miamisburg, Ohio, and being subject to all easements, highways and right of ways of record.

Bearing basis established as Grid North by GPS observation August 7th & 8th, 2002 at Latitude N39° 38' 25.81", Longitude W084° 17' 28.09" (Coast & Geodetic Survey Monument #G-139, 1947); Ohio State Plane Coordinate system, Ohio South Zone 3402 (NAD 83), True North being 01° 08' 11" east of Grid North.

This description prepared from an actual field survey performed under my direct supervision, Timothy W. Schram, Sr., Registered Professional Surveyor number 7299 of the State of Ohio, and that all monuments referenced herein and placed on the ground represents the boundaries of the herein described tract, and based on a Plat of Survey as recorded in the Montgomery County Engineer's Record of Land Surveys in Record Volume number **2004**, Page **0309**.

Timothy W. Schram, Sr., Regist. Prof. Surveyor No. 7299
of the State of Ohio, June 1, 2004.

F/040012 Mound Parcel 6

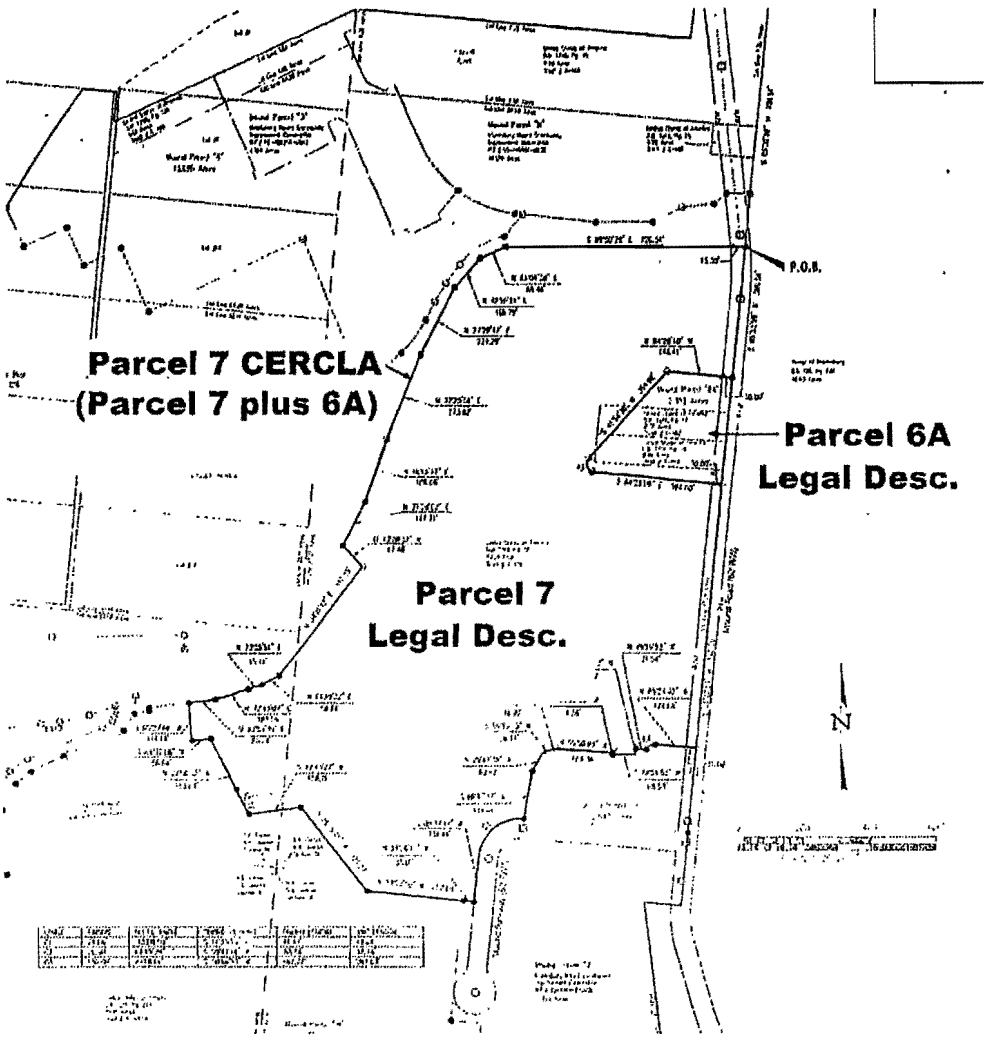
STATE OF OHIO
TIMOTHY W. SCHRAM, SR. 7299
REGISTERED PROFESSIONAL LAND SURVEYOR

JOSEPH LITVIN, P.E., P.S.
MONTGOMERY COUNTY ENGINEER
DAYTON, OHIO
APPROVED
BY EDM DATE 7/28/04
FILE NO. 2004 0309

PARCEL 7
LEGAL DESCRIPTION

Note:

For the purposes of CERCLA and this Proposed Plan, the Parcel 7 boundary is defined in *Figure 2 Location of Parcels Within Site Boundary*. It should be noted however that the CERCLA Parcel 7 as defined in Figure 2 contains a small parcel of land (2.352 Acres) previously identified as "Parcel 6A". Although not shown in Figure 2, Parcel 6A was surveyed separate from the legal survey of Parcel 7 because it contains the DOE Legacy Management Building which may or may not be transferred in the future. So as to avoid any confusion on this matter, the legal description of Parcel 7 together with the legal description of Parcel 6A comprise the CERCLA Parcel 7 (see below).



Floyd Browne Group

Description of 42.307 Acres

Situated in the State of Ohio, County of Montgomery, City of Miamisburg, being part of Section 30 and Section 36, Fractional Township 2, Range 5, Miami Rivers Survey, being 40.385 acres out of Section 30, being 1.922 acres out of Section 36, being part of City of Miamisburg Lot No. 2259 and Lot No. 2290, being 40.219 acres of land that lie over and across an 87.28 acre tract of land described in deed to the United States of America of record in Deed Book 1214, Page 12, being 1.782 acres of land that lie over and across a 17.68 acre tract of land described in deed to the United States of America of record in Deed Book 1214, Page 248, being 0.140 acres of land that lie over and across a 20.46 acre tract of land described in deed to the United States of America of record in Deed Book 1215, Page 347, being 0.144 acres of land that lie over and across a 0.78 acre tract of land described in deed to the United States of America of record in Deed Book 1214, Page 17, being 0.022 acres of land that lie over and across a 0.78 acre tract of land described in deed to the United States of America of record in Deed Book 1214, Page 15, and being more particularly described as follows:

COMMENCING for reference at a concrete monument found at the northwest corner of said Section 30 and the northeast corner of said Section 36, being the northerly line of said Fractional Township 2, Range 5, and being the southerly line of Fractional Township 1, Range 6, Miami Rivers Survey;

Thence South 85°00'57" East with said Township line and the northerly line of said Section 30, a distance of 1249.65 feet to a point at the northeasterly corner of a 14.288 acre tract of land described in deed to Miamisburg Mound Community Improvement Corporation of record in Deed Microfiche No. 02-146504-0038;

Thence South 05°32'59" West with the easterly line of said 14.288 acre tract, a distance of 731.91 feet to an iron pin set on the westerly line of a 42.63 acre tract of land as described in deed to the Village of Miamisburg of record in Deed Book 776, Page 581, being on the easterly line of said 87.28 acre tract, and being the **TRUE POINT OF BEGINNING** of the tract to be described;

Thence South 05°32'59" West with the westerly line of said 42.63 acre tract and the easterly line of said 87.28 acre tract, a distance of 389.54 feet to a surveyor's nail found on the centerline of Mound Road;

Thence crossing said 87.28 acre tract and both said 0.78 acre tracts with the following four (4) courses and distances:

1.) North 84°28'40" West, a distance of 198.41 feet to an iron pin set;

2.) South 41°54'30" West, a distance of 354.02 feet to an iron pin set at a point of curvature;

3.) With a curve to the left having a radius of 24.86 feet, a central angle of 113°00'50", a chord bearing of South 14°35'55" East, a chord length of 41.47 feet, and an arc length of 49.04 feet to an iron pin set;

4.) South 84°28'09" East, a distance of 394.00 feet to a surveyor's nail set on the centerline of said Mound Road;

3769 Columbus Pike, P.O. Box 8016 ■ Delaware, Ohio 43015-8016 ■ 740.363.6792 ■ fax: 740.363.6536
www.floydbrowne.com ■ 1.800.325.7647

Thence South 05°32'59" West with the westerly line of said 42.63 acre tract, the easterly line of said 87.28 acre tract, and the centerline of said Mound Road, a distance of 790.36 feet to a surveyor's nail set;
Thence crossing said 87.28 acre tract with the following eleven (11) courses and distances:

1.) North 85°24'02" West, a distance of 124.08 feet to an iron pin found at a point of curvature;

2.) With a curve to the left having a radius of 26.90 feet, a central angle of 69°49'29", a chord bearing of South 59°41'14" West, a chord length of 30.79 feet, and an arc length of 32.78 feet to an iron pin found;

3.) North 85°16'52" West, a distance of 31.54 feet to an iron pin found;

4.) South 06°33'12" West, a distance of 16.13 feet to a cross notch found;

5.) South 88°51'53" West, a distance of 68.53 feet to a surveyor's nail found;

6.) North 00°39'23" West, a distance of 4.38 feet to a railroad spike found;

7.) North 85°56'03" West, a distance of 168.86 feet to an iron pin set;

8.) South 85°36'28" West, a distance of 16.02 feet to an iron pin set;

9.) South 69°32'50" West, a distance of 26.94 feet to an iron pin set;

10.) South 29°42'35" West, a distance of 62.82 feet to an iron pin found;

11.) South 10°37'07" West, a distance of 144.91 feet to an iron pin found on the northerly line of a 12.429 acre tract of land as described in deed to Miamisburg Mound Community Improvement Corporation of record in Deed Microfiche No. 99-141468-0006 and being the northerly right of way of Mound Parkway;

Thence with the westerly line of said 12.429 acre tract and the westerly right of way line of said Mound Parkway the following two (2) courses and distances:

1.) With a curve to the left having a radius of 130.00 feet, a central angle of 89°18'19", a chord bearing of South 50°16'29" West, a chord length of 182.73 feet, and an arc length of 202.63 feet to an iron pin set;

2.) South 05°37'19" West, a distance of 131.44 feet to an iron pin found;

Thence North 84°26'17" West with a northerly line of said 12.429 acre tract, a distance of 35.16 feet to an iron pin found;

Thence crossing said 87.28 acre tract with the following three (3) courses and distances:

1.) North 84°29'56" West, a distance of 292.60 feet to an iron pin found;

2.) North 39°18'45" West, a distance of 324.29 feet to an iron pin found;

3.) South 82°43'27" West, a distance of 158.71 feet to an iron pin found in said 20.46 acre tract;

Thence crossing into and through said 17.68 acre tract with the following eight (8) courses and distances:

1.) North 27°06'32" West, a distance of 253.63 feet to an iron pin found;

2.) South 84°32'08" West, a distance of 56.64 feet to an iron pin found;

3.) North 05°27'10" West, a distance of 114.14 feet to an iron pin found;

4.) North 82°55'39" East, a distance of 80.24 feet to an iron pin found;

5.) North 72°43'07" East, a distance of 103.56 feet to an iron pin found;

6.) North 73°35'51" East, a distance of 45.41 feet to an iron pin found;

7.) North 61°39'22" East, a distance of 58.74 feet to an iron pin found;

8.) North 38°11'13" East, a distance of 411.35 feet to an iron pin set in said 87.28 acre tract;

Thence crossing said 87.28 acre tract with the following eight (8) courses and distances:

1.) North 43°20'32" West, a distance of 87.40 feet to an iron pin found;

2.) North 27°28'02" East, a distance of 147.71 feet to an iron pin found;

3.) North 18°13'42" East, a distance of 198.86 feet to an iron pin set;

4.) North 22°25'51" East, a distance of 273.82 feet to an iron pin found;

5.) North 27°29'42" East, a distance of 224.29 feet to an iron pin found;

6.) North 42°10'34" East, a distance of 116.79 feet to an iron pin found;

7.) North 66°04'39" East, a distance of 86.46 feet to an iron pin found;

1.) South 89°50'28" East, a distance of 726.51 feet to the **TRUE POINT OF BEGINNING**, containing 42.307 acres of land, more or less.

Subject however to all easements, restrictions and rights-of-way of record, if any.

Basis of Bearing is the section line between Sections 30 and 36 being North 05°16'47" East as determined by GPS measurements between Montgomery County Monuments 1057 and 1058 and the Ohio State Plane Coordinate System, South Zone. All iron pins Set are 5/8" solid iron pins 30" in length with an orange plastic cap stamped "Floyd Browne Group".

The above description is based on and referenced to an exhibit prepared by Floyd Browne Group dated 06-12-06, attached hereto and made a part hereof.

All references are to the records of the Recorder's Office, Montgomery County, Ohio.

6/12/06

Maynard H. Thompson, P.S. Date
Professional Surveyor No. 7128

STATE OF OHIO
MAYNARD H. THOMPSON S-7128
REGISTERED PROFESSIONAL SURVEYOR

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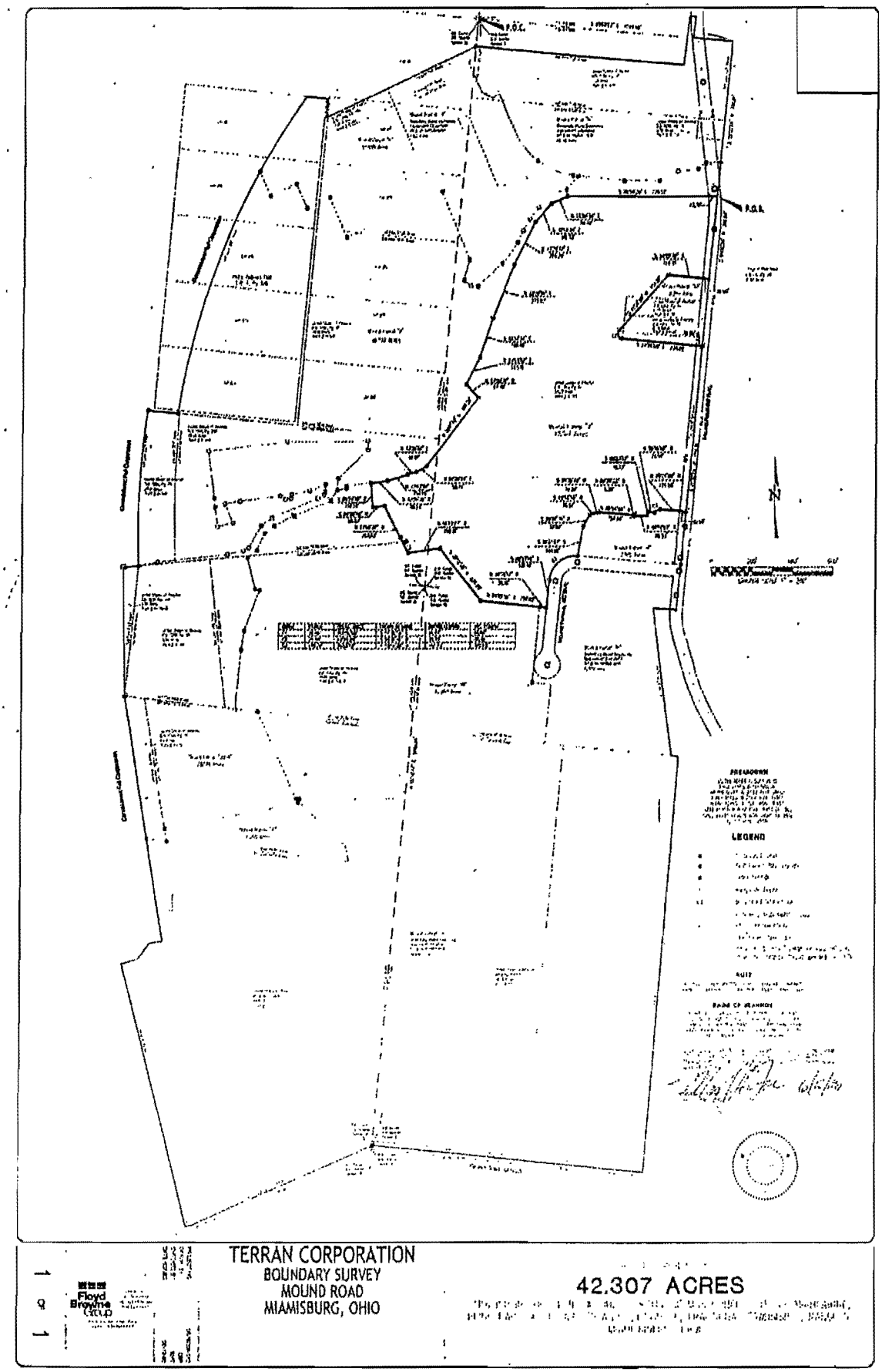

TERRAN CORPORATION
BOUNDARY SURVEY
MOUND ROAD
MIAMISBURG, OHIO

Floyd Browne Group

42.307 ACRES

Floyd Browne Group

Div/2
K46-005-02.

Description of 3.320 Acres

Situate in the State of Ohio, County of Montgomery, City of Miamisburg, being part of Section 30, Township 2, Range 5, M.Rs., being 3.320 acres out of Section 30, being part of City of Miamisburg Lot Number 2259, being 0.637 acres of land that lie over and across a 0.78 acre tract of land described in deed to the United States of America of record in Deed Book 1214, Page 17, being 0.758 acres of land that lie over and across a 0.78 acre tract of land described in deed to the United States of America of record in Deed Book 1214, Page 15, being 1.925 acres of land that lie over and across an 87.28 acre tract of land described in deed to the United States of America of record in Deed Book 1214, Page 12, being Montgomery County Engineer Survey Record Number 2006-0269, and being more particularly described as follows:

COMMENCING for reference at a concrete monument found at the northwest corner of said Section 30 and the northeast corner of Section 36, being the northerly line of said Township 2, Range 5, and being the southerly line of Township 1, Range 6, M.Rs.;

Thence South 85°00'57" East with said Range line, the northerly line of City of Miamisburg Lot Number 2258, and the northerly line of said Section 30, a distance of 1249.65 feet to an iron pin set at the northeasterly corner of a 14.288 acre tract of land described in deed to Miamisburg Mound Community Improvement Corporation of record in Deed Instrument Record No. 02-146504;

Thence South 05°32'59" West with the easterly line of said 14.288 acre tract and the easterly line of said City Lot Number 2259, a distance of 1121.45 feet to a Mag nail set on the westerly line of a 42.63 acre tract of land as described in deed to the Village of Miamisburg of record in Deed Book 776, Page 581, passing a monument box found on the centerline of Mound Road (65 foot right of way) at a distance of 886.25 feet, being on the easterly line of said 87.28 acre tract, and being the **TRUE POINT OF BEGINNING** of the tract to be described;

Thence South 05°32'59" West with the centerline of said Mound Road, the westerly line of said 42.63 acre tract, the easterly line of said City Lot Number 2259, the easterly line of said 87.28 acre tract, and the easterly line of both said 0.78 acre tracts, a distance of 459.58 feet to a Mag nail set on the centerline of Mound Road, passing a Mag nail found at a distance of 324.29 feet;

Thence with a new division line though said 87.28 acre tract, said City Lot Number 2259, and both said 0.78 acre tracts with the following five (5) courses:

1.) North 84°28'09" West, a distance of 277.72 feet to an iron pin set, passing an iron pin set on the westerly right of way line of said Mound Road at a distance of 34.87 feet;

2.) North 05°31'51" East, a distance of 111.53 feet to a Mag nail set;

3.) North 84°28'09" West, a distance of 176.90 feet to a Mag nail set;

4.) North 41°54'30" East, a distance of 432.26 feet to a 5/8" iron pin found with a Schram cap, passing a 5/8" iron pin found at a distance of 77.95 feet;

5.) South 84°28'40" East, a distance of 198.41 feet, passing an iron pin set on the westerly right of way line of said Mound Road at a distance of 163.62

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feet, to the **TRUE POINT OF BEGINNING,** containing 3.320 acres of land, more or less.

Subject however to all easements, restrictions and rights-of-way of record, if any.

Basis of Bearing is the section line between Sections 30 and 36 being North 05°16'47" East as determined by GPS measurements between Montgomery County Monuments 1057 and 1058 and the Ohio State Plane Coordinate System, South Zone. All iron pins set are 5/8" solid iron pins 30" in length with an orange plastic cap stamped "Floyd Browne Group".

The above description is based on and referenced to an exhibit prepared by Floyd Browne Group dated 09-12-06, attached hereto and made a part hereof.

All references are to the records of the Recorder's Office, Montgomery County, Ohio.

9/06/06

Maynard H. Thompson, P.S. Date
Professional Surveyor No. 7126

STATE OF OHIO
MAYNARD H. THOMPSON S-7126 REGISTERED PROFESSIONAL SURVEYOR

JOSEPH LITVIN, P.E., P.S
MONTGOMERY COUNTY ENGINEER
DAYTON, OHIO
APPROVED
BY _____ DATE _____
FILE NO. 2006-0269A

PARCEL 8
LEGAL DESCRIPTION

Floyd Browne Group

Description of 45.247 Acres

Situated in the State of Ohio, County of Montgomery, City of Miamisburg, being part of Section 30 and Section 36, Fractional Township 2, Range 5, Miami Rivers Survey, being 5.297 acres out of Section 30, being 39.950 acres out of Section 36, being part of City of Miamisburg Lot No. 2259 and Lot No. 2290, being part of Lots Numbered 13, 14, 15, 16, 20, 21, 22, and 23 of the Philip Gebhart Plat of record in Plat Book Volume "A", Page 126, being 6.993 acres of land that lie over and across an 87.28 acre tract of land described in deed to the United States of America of record in Deed Book 1214, Page 12, being 7.878 acres of land that lie over and across a 17.68 acre tract of land described in deed to the United States of America of record in Deed Book 1214, Page 248, being 30.376 acres of land that lie over and across a 33.11 acre tract of land described in deed to the United States of America of record in Deed Book 1246, Page 45, and being more particularly described as follows:

COMMENCING for reference at a concrete monument found at the northwest corner of said Section 30 and the northeast corner of said Section 36, being the northerly line of said Fractional Township 2, Range 5, and being the southerly line of Fractional Township 1, Range 6, Miami Rivers Survey;

Thence South 85°00'57" East with said Township line and the northerly line of said Section 30, a distance of 1249.65 feet to a point at the northeasterly corner of a 14.288 acre tract of land described in deed to Miamisburg Mound Community Improvement Corporation of record in Deed Microfiche No. 02-146504-0038;

Thence South 05°32'59" West with the easterly line of said 14.288 acre tract, a distance of 572.24 feet to an iron pin set on the westerly line of a 42.63 acre tract of land as described in deed to the Village of Miamisburg of record in Deed Book 776, Page 581, being the southeasterly corner of said 14.288 acre tract, and being the **TRUE POINT OF BEGINNING** of the tract to be described;

Thence South 05°32'59" West with the westerly line of said 42.63 acre tract and the easterly line of said 87.28 acre tract, a distance of 159.67 feet to an iron pin set;

Thence crossing said 87.28 acre tract with the following nine (9) courses and distances:

1.) North 89°50'28" West, a distance of 726.51 feet to an iron pin found;

2.) South 66°04'39" West, a distance of 86.46 feet to an iron pin found;

3.) South 42°10'34" West, a distance of 116.79 feet to an iron pin found;

4.) South 27°29'42" West, a distance of 224.29 feet to an iron pin found;

5.) South 22°25'51" West, a distance of 273.82 feet to an iron pin set;

6.) South 18°13'42" West, a distance of 198.86 feet to an iron pin found;

7.) South 27°28'02" West, a distance of 147.71 feet to an iron pin found;

8.) South 43°20'32" East, a distance of 87.40 feet to an iron pin set;

9.) South 38°11'13" West, a distance of 411.35 feet to an iron pin found in said 17.68 acre tract;

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Thence crossing said 17.68 acre tract with the following thirty-three (33) courses and distances:

1.) South 61°39'22" West, a distance of 58.74 feet to an iron pin found;

2.) South 73°35'51" West., a distance of 45.41 feet to an iron pin found;

3.) South 72°43'07" West, a distance of 103.56 feet to an iron pin found;

4.) South 82°55'39" West, a distance of 80.24 feet to an iron pin found;

5.) South 82°58'13" West, a distance of 120.59 feet to an iron pin found;

6.) South 01°37'13" East, a distance of 10.31 feet to an iron pin found;

7.) South 80°04'06" West, a distance of 45.82 feet to an iron pin found;

8.) North 04°41'32" East, a distance of 53.96 feet to an iron pin set;

9.) North 46°26'35" East, a distance of 201.86 feet to an iron pin set;

10.) North 01°39'10" West, a distance of 41.56 feet to an iron pin set;

11.) South 89°28'55" West, a distance of 397.71 feet to an iron pin set;

12.) South 83°13'43" West, a distance of 387.72 feet to an iron pin set;

13.) South 07°27'35" East, a distance of 227.31 feet to an iron pin set;

14.) South 05°28'40" East, a distance of 44.09 feet to an iron pin set;

15.) South 07°58'24" East, a distance of 93.66 feet to an iron pin set;

16.) North 75°54'00" East, a distance of 78.91 feet to an iron pin set;

17.) North 24°27'29" West, a distance of 99.13 feet to an iron pin set;

18.) North 79°49'02" East, a distance of 75.88 feet to an iron pin set;

19.) North 82°54'26" East, a distance of 197.88 feet to an iron pin set;

20.) South 57°54'36" East, a distance of 29.12 feet to an iron pin set;

21.) North 81°50'07" East, a distance of 28.32 feet to an iron pin set;

22.) North 09°29'45" East, a distance of 17.42 feet to an iron pin set;

23.) North 77°13'35" East, a distance of 89.22 feet to an iron pin set;

24.) North 69°49'16" East, a distance of 84.57 feet to an iron pin set;

25.) South 06°55'42" West, a distance of 33.94 feet to a surveyor's nail set;

26.) South 19°27'18" West, a distance of 13.71 feet to an iron pin set;

27.) South 57°23'02" West, a distance of 36.99 feet to an iron pin set;

28.) South 67°15'25" West, a distance of 240.29 feet to an iron pin set;

29.) South 54°03'57" West, a distance of 63.19 feet to an iron pin set;

30.) South 29°43'09" West, a distance of 122.02 feet to an iron pin set;

31.) South 63°02'39" West, a distance of 31.36 feet to an iron pin set;

32.) South 76°52'04" West, a distance of 79.92 feet to an iron pin set;

33.) South 83°59'02" West, a distance of 347.69 feet to an iron pin set in said 33.11 acre tract;

Thence South 79°29'02" West crossing said 33.11 acre tract, a distance of 98.70 feet to an iron pin set on the easterly right of way line of the Consolidated Rail Corporation tract;

Thence with the easterly right of way line of said Consolidated Rail Corporation tract and the westerly line of said 33.11 acre tract the following three (3) courses and distances:

1.) With a curve to the right having a radius of 3669.83 feet, a central angle of 11°37'50", a chord bearing of North 03°16'21" East, a chord length of 743.66 feet, and an arc length of 744.94 feet to an iron pin found;

2.) South 84°41'06" East, a distance of 150.25 feet to an iron pin found;

3.) With a curve to the right having a radius of 3519.79 feet, a central angle of 19°53'33", a chord bearing of North 19°11'28" East, a chord length of 1215.90 feet, and an arc length of 1222.03 feet to an iron pin found on the westerly line of said 87.28 acre tract;

Thence crossing said 87.28 acre tract with the following five (5) courses and distances:

1.) South 24°05'45" East, a distance of 127.68 feet to an iron pin found;

2.) North 65°39'33" East, a distance of 138.18 feet to an iron pin found;

3.) South 24°14'27" East, a distance of 125.11 feet to an iron pin found;

4.) North 65°36'51" East, a distance of 123.37 feet to an iron pin found;

5.) South 24°21'20" East, a distance of 205.80 feet to an iron pin found in said 33.11 acre tract;

Thence crossing back into said 87.28 acre tract with the following twelve (12) courses and distances:

1.) North 65°25'37" East, a distance of 514.16 feet to an iron pin set;

2.) South 23°23'40" East, a distance of 349.34 feet to an iron pin found;

3.) South 15°42'36" West, a distance of 99.82 feet to an iron pin found;

4.) South 52°01'06" East, a distance of 45.16 feet to an iron pin set;

5.) South 88°48'49" East, a distance of 34.13 feet to an iron pin found;

6.) North 47°52'27" East, a distance of 162.00 feet to an iron pin found at a point of curvature;

7.) With a curve to the left having a radius of 349.79 feet, a central angle of 20°18'10", a chord bearing of North 37°43'22" East, a chord length of 123.30 feet, and an arc length of 123.95 feet to an iron pin found;

8.) North 27°34'17" East, a distance of 60.00 feet to an iron pin set;

9.) North 31°21'43" East, a distance of 64.96 feet to an iron pin set;

10.) North 37°32'43" East, a distance of 70.00 feet to an iron pin set at a point of curvature;

11.) With a curve to the right having a radius of 223.57 feet, a central angle of 42°00'18", a chord bearing of North 58°32'52" East, a chord length of 160.26 feet, and an arc length of 163.91 feet to an iron pin found;

12.) North 40°32'20" East, a distance of 86.52 feet to an iron pin set on the southerly line of said 14.288 acre tract;

Thence with the southerly line of said 14.288 acre tract the following six (6) courses and distances:

1.) South 83°55'13" East, a distance of 222.55 feet to an iron pin found;

2.) North 89°59'43" East, a distance of 173.01 feet to an iron pin found;

3.) North 63°47'11" East, a distance of 98.26 feet to an iron pin set;

4.) North 83°30'22" East, a distance of 97.43 feet to an iron pin found;

5.) North 51°47'30" East, a distance of 48.88 feet to an iron pin found;

6.) South 89°59'28" East, a distance of 72.24 feet to the **TRUE POINT OF BEGINNING**, containing 45.247 acres of land, more or less.

Subject however to all easements, restrictions and rights-of-way of record, if any.

Basis of Bearing is the section line between Sections 30 and 36 being North 05°16'47" East as determined by GPS measurements between Montgomery County Monuments 1057 and 1058 and the Ohio State Plane Coordinate System, South Zone. All iron pins Set are 5/8" solid iron pins 30" in length with an orange plastic cap stamped "Floyd Browne Group".

The above description is based on and referenced to an exhibit prepared by Floyd Browne Group dated 06-12-06, attached hereto and made a part hereof.

All references are to the records of the Recorder's Office, Montgomery County, Ohio.

6/12/06

Maynard H. Thompson, P.S. Date
Professional Surveyor No. 7128

STATE OF OHIO
MAYNARD H. THOMPSON S-7128 REGISTERED PROFESSIONAL SURVEYOR

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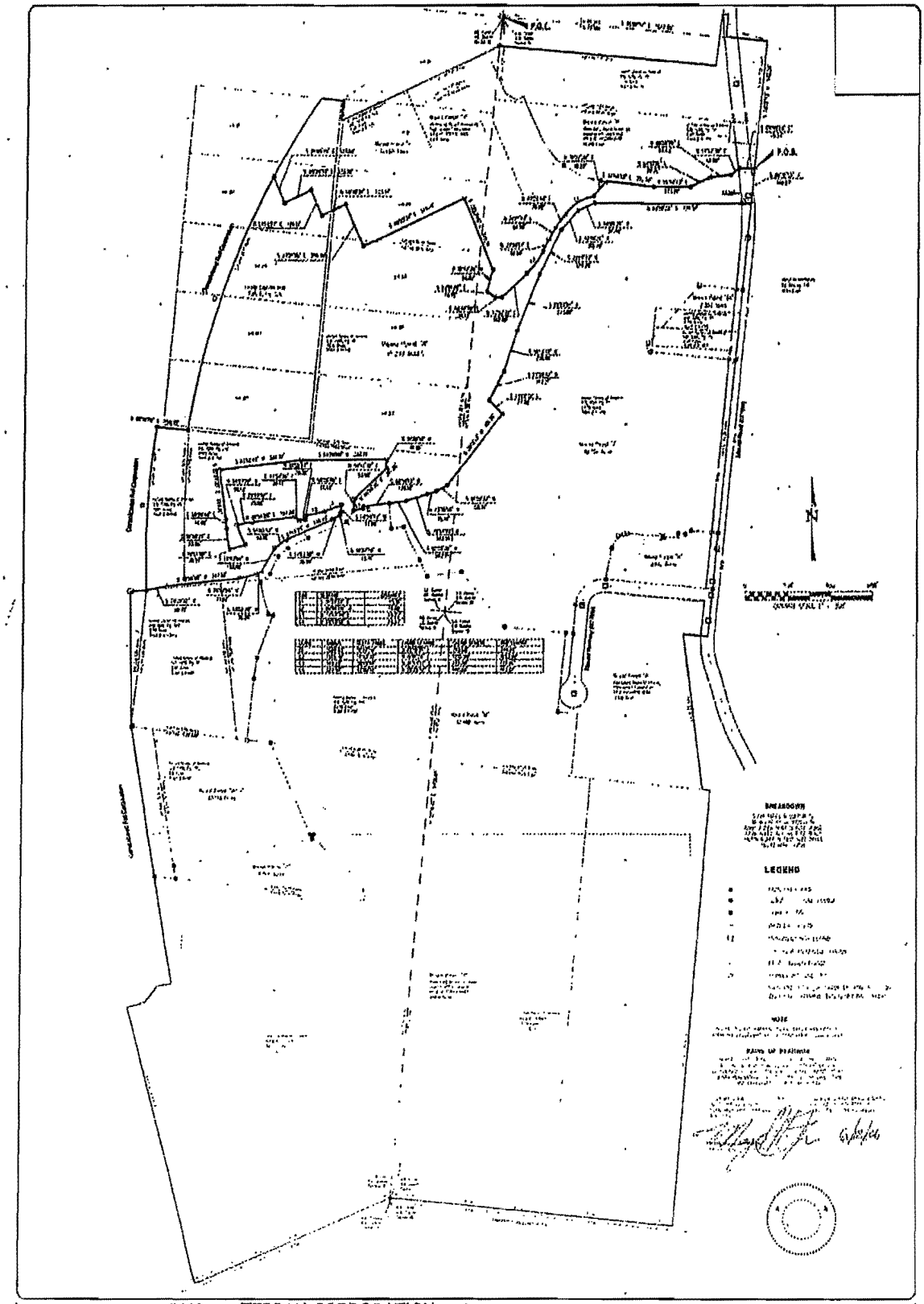

TERRAN CORPORATION
BOUNDARY SURVEY
MOUND ROAD
MIAMISBURG, OHIO

Floyd Browne Group

45.247 ACRES

APPENDIX D

Building Information

BUILDINGS LOCATED IN PARCEL 6

Building 28.
The building was used for ceramics development and production. It is currently leased by MMCIC. The facility is a one-story structure slab-on-grade structure reinforced concrete masonry structure with slab-on-grade floor, a built-up membrane roof along with an adjacent metal storage shed. Electric, water and sewer are available. The building has a stand-alone boiler.

Building 45.
The facility was used for calibrating Health Physics instrumentation and personnel dosimeters. The facility consists of an original single-story concrete block structure. The original building structure was constructed in 1968. The first addition, totaling 2,784 sq. ft., was built in 1988. The original building and first addition consist of a single story concrete structure with a penthouse for housing mechanical equipment. The second addition, totaling approximately 6,800 sq. ft. was completed in 1995 and consists of a two-story structure on the southern side of the original building and a one-story structure on the northern side of the original building.

Building OSE.
Building OSE housed offices for the Department of Energy, an auditorium, photographic services, and the site computer facility. The building was used for the same purpose since construction. The Building is a steel frame four-story structure and penthouse, with a brick facing and built-up membrane roof. The building had central steam and chilled water for heating and air conditioning.

BUILDINGS DEMOLISHED IN PARCEL 6

Building 40
On the first floor of the structure (approximately 6,150 sq. ft.) was printing and microfilming shops and a vault for document storage. Offices were located on the second floor (approximately 3,880 sq. ft.). The third floor (approximately 2,170 sq. ft.) housed utility services with interstitial space between the ceiling and roof for ductwork. The building had been used for the same purpose since construction. No research, development or production activities using radioactive or energetic materials were known to have occurred in the building.

Building 46.
The building contained specialized welding facilities that supported the heat source program. Welding development for energetic materials was also performed, along with machine shop activities, which were conducted in the building. No research, development, and testing activities using radioactive materials have been known to have occurred in the building.

Building 47.
The building was originally utilized as the plant fire station. From 1987 to the late 1990's, the building housed administrative offices for protective security personnel, weapons storage areas, and classified waste storage areas. The building was renovated to serve its original purpose as a fire station allowing Building 98 to be demolished as part of the PRS66 cleanup.

Building 60.
The facility was used for ceramic development and non-destructive testing since its construction. The building had been leased by the MMCIC in 1995 for a period of time.

Building 65.
Building 65 was a one-story, 2,400-square-foot wooden modular structure. The building was bordered by Building GP-1 (north), Building 28 (south), a parking lot (east), and Building W (west). Building 65 was constructed in 1979 for use as an office area. The building was emptied and dismantled in 1996. It was used for the same purpose since construction. The building was not contaminated with radiological or energetic material.

Building 91.
Building 91 was a two story 8,065-square-foot, steel frame, wood-sided modular building with a Hypalon roof. The facility was located south of the perimeter fence in the northeast region of the Mound site. Building 91 was constructed in 1985 with the purpose of providing program support office space and space for dosimeter evaluation.

Building 96.
Building 96 was a 432-square-foot, prefabricated metal building. The facility was assembled in 1984. It was bordered by Building W on the west, Building 47 to the east, Buildings 60 and 28 to the south, and Building GP-1 to the north. The facility was sold to a private party, disassembled, and moved offsite. The building was not known to be contaminated with radiological or energetic materials.

Building 99.
The first and second floors of the facility were used as administrative areas for security personnel. The first floor also contained a locksmith shop and communications center. The third floor housed the Emergency Operations Center (EOC). The fourth floor was a penthouse used as a mechanical room. The building had been used for the same purposes since construction.

A Building.
Offices were on the first and second floors, with the medical facility on the first floor. The basement contained the Classification Office and Document Control. This building had been used for the same purpose since construction. No

research, development, or production activities using radioactive or energetic materials have occurred in the building. Building A was located between, and connected to Buildings OSW and OSE.

C Building.
Building C was a one-story structure, with a basement, constructed of concrete block with brick face exterior. Building C was one of the original buildings constructed in 1948 and contained 13,403 square feet. Adjacent buildings were Building A to the north, Building M to the south, Building 40 to the east, and Building H to the west. The building was originally the old cafeteria and provided that service until 1986. Afterwards the building was used for offices, record storage, engineering project storage, maintenance storage, and as an emergency shelter. The building was not contaminated with radioactive or energetic materials.

G Building.
Building G served as the repair maintenance facility for plant vehicles and heavy-duty equipment. The building was located south of OSE Building and between Building 40 and GW Building.

GP-15 Building.
Guard Post 15 was a 53 square-foot building demolished in 2002.

GP-5A Building.
Guard Post 5A was a 60 square-foot building demolished in 1998.

GW Building.
GW building was originally built to house offices, bonded stores, and receiving/inspection for weapons programs. Before it was demolished, it housed long-term record storage and offices.

BUILDINGS LOCATED IN PARCEL 7

Building 2.
Building 2, Energetic Materials Destructive Testing, is a one-story, 6,291-square-foot, reinforced concrete and concrete block structure. The building has two attached metal storage sheds. The building is bounded by Building 63-E/63-W to the north, and Buildings 3 and 49 were to the west and east, respectively. Building 2 was constructed in 1953 and had been used for the same purpose since construction.

Building 61.
Building 61 was a central warehouse and receiving facility at Mound. No research, development, or production activities using radioactive or energetic materials have occurred in the building. It should be noted that at various times contaminated equipment for disposition has passed through it; however, no

cleanup actions are anticipated. The building is a split level design. One-half of the building has offices; the other half contains high, open bays for materials storage handling.

Building 63.
Building 63 is comprised of two structures connected together: Building 63-E contained quality product testing laboratories on the first floor and offices and lavatory facilities on the second. Building 63-W, an environmental storage and spin test facility, is a one-story, 3,100-square-foot, concrete block, slab-on-grade structure. This portion of the building contained offices, environmental storage chambers, a spin test facility, and a lavatory. The building is bounded by a parking lot to the north, Building 49 to the east, a roadway to the south, and Building 59 to the west. Building 63-E/63-W was constructed in 1981. The building was used for the same purpose since construction. Research and testing activities using energetic materials occurred in the building. Research, development and testing activities using radioactive materials did not occur there.

Building 126.
Building 126, a single story office building, was constructed in support of the Nuclear Energy mission at Mound. The building currently serves as office space for DOE Legacy Management and contractor personnel.

BUILDINGS DEMOLISHED IN PARCEL 7

Building 27
Building 27 was named the Explosive Processing Facility and located in the area to the west of the former "Test Fire Area". The area was a small complex of five structures including Building 42 a production building, Building 67 an office structure, and explosive magazines 52 and 64. The building was used for explosive formulation. It was constructed of masonry walls with blowout panels in the walls. Also included was an addition to the building that included explosive processing cells, a micro room, instrument room, and offices.

Building 29
Building 29 was used for plastics formulation and manufacturing. The building was bounded by Building 98 to the west, a parking lot to the south, a roadway to the north and Building 45 across the roadway. The main floor contained a mechanical room, refrigeration storage unit, plastic test room, roll mill room, mixer room, solvent supply room, dry plastic process room and office support including toilets, locker, janitorial, storage, and office. The mezzanine supported an asbestos slurry kettle and the penthouse equipment, including two varnish kettles, a Malta mixer, acetone pumps, and the building air exhaust filter system. A lean-to on the northeast side of the building held two tank containers for contaminated acetone. A lean-to on the opposite side of the building provided

shelter for containers of new acetone. The building operations ended in 1987. The building was used for the same purpose since construction.

Building 30.
Building 30 housed a radiological counting laboratory. Liquid scintillation counting was used to count paper smear samples for the detection of tritium and gross alpha/beta activity. Several years ago Building 30 was converted from use as an office/storage area to a counting laboratory. The building previously housed a gamma scan facility for waste drums and boxes.

Building 31.
Building 31 was used for storage of radiological waste in sealed containers. The facility was a prefabricated metal building with a metal roof and slab-on-grade floor. The facility plus ancillary concrete slabs and loading docks have been removed.

Building 33.
Building 33 was assigned to the D&D group for the storage of materials, protective clothing, and parts, and for the maintenance of heavy and light equipment used in the D&D process. The building supported the repair of specific equipment removed from D&D to be reused elsewhere at Mound, transferred to other DOE activities, or sold. Building 33 was constructed in 1965. The building had been used for equipment maintenance and storage since construction.

Building 36.
The building was used to support general-purpose heat source testing operations. Operations conducted in the building were high-temperature bakeout and cleaning of graphite modules. No research, development, or production activities using radioactive or energetic materials have been known to have occurred in the building.

Building 37.
Building 37 was used for two purposes. One use was research, development and production in conjunction with the US Advance Battery Consortium. The other use was converting processes with freon or other hazardous materials to processes that use safer materials. The building was later converted to a machine shop in support of the heat source program. The activities performed were machining, cleaning, heat treating, and inspection. No research, development, or production activities using radiation or energetic materials have been known to have occurred in the building.

Building 38.
Building 38, also called PP (Plutonium Processing) Building, was formerly used as a Pu-238 production processing facility, the assembly and testing of Radioisotopic Thermoelectric Generators (RTGs), the repackaging and storage of excess nuclear material, and the storage and identification of orphan sources

from Mound. The following additions were made to the original structure: (1) a men's change room, 1,764 sq. ft.; (2) a low level liquid waste facility and tanker loading pad, 547 sq. ft.; (3) a waste solidification facility, 2,184 sq. ft.; and (4) two 360 sq. ft. dock towers with an overhead rail crane in each.

Building 44.
Building 44 was bordered on three sides by a combination of gravel, dirt, and grass. The west side of the building paralleled a paved road. Adjacent buildings were Building SM on the west and Building GP-44 on the north. The building contained an office, store room, dining area, lavatories, and a combination food preparation and dishwashing room. Building 44 was constructed in 1970 and was used for the same purpose since construction until September 1994 when it was used as an employee rest area, "brown bag" lunch room, and meeting and training facility for employees working in the SM/PP area.

Building 49.
The building contained production laboratories, office lavatories, a locker room, storage, and a large staging area. Production activities using energetic materials have occurred in the building. The building had been used for the same purpose since its construction in 1971. Research, development and testing activities using radioactive materials have not been known to have occurred in the building.

Building 50.
Building 50 was the radioisotopic thermoelectric generator (RTG) assembly and testing facility. The first floor of the structure was a process area for the assembly of RTGs. RTGs are sealed radioactive sources containing encapsulated plutonium. The building was segregated into two areas, a buffer area where RTG assembly and storage was conducted and a controlled area, where support activities occur. The second floor penthouse housed utility services.

Building 51.
Building 51 was located in the central portion of the Test Fire Valley between the Main Hill and the SM/PP Hill. The building was constructed in 1970 to provide waste incineration for the Mound Plant.

Building 66.
Building 66, an office building, was a 650-square-foot, one-story wood-sided structure. It was a modular structure, setting on concrete footings. The building was bounded by a parking lot (south), Building 98 to the east, a dirt area leading to a street (north), and Building 51 (west). Building 66 was constructed in 1980. The building was built for a supply support office. No research, development, or production activities using radioactive or energetic materials occurred in the building.

Building 71.
Building 71 was a flammable liquids storage facility. The building contained 820 square feet of storage space.

Building 73.
Building 73 was the central compressed gas cylinder storage location at the Mound facility. It was situated north of Building 61 and south of Building 71. To the east was a 800,000-gallon impoundment, built to retain storm runoff and associated sediments. The building was constructed in 1983.

Building 88.
Building 88 was a 7,200-square-foot, single-story, prefabricated structure. It was modular in design and had a wood exterior structure. The building was located in the SM/PP area of Mound. A roadway and Buildings 50 and 37 were to the south. The other three sides of the building were surrounded by an open grassed area. Building 88 was erected in 1984 to provide administrative offices to the radioisotopes thermoelectric generator (RTG) program.

Building 98.
Building 98 was a two-story, 8,517-square-foot, firehouse. Offices, personnel support and training facilities, the operations center, and vehicles were located on the second floor. Vehicles housed there included those for structural fires, an ambulance and a hazardous materials (HAZMAT) mobile unit with response materials. Building 98 was constructed in 1987and was used for the same purpose since construction.

Building 110.
Building 110 was the fuel facility that had been located in the upper portion of the Test Fire Valley between the Main Hill and the Special Metallurgical/Plutonium Processing (SM/PP) Hill, between Building 51 and the Brickmaker. Built in 1988, the facility included two above ground fuel tanks (a 6,000-gallon gasoline tank and a 4,000-gallon diesel fuel tank), two filling station-type gas pumps, and an oil/water separator. The facility served to supply fuel to plant vehicles and emergency power diesel engines. Services to the facility were terminated prior to demolition. No waste was stored at the Building 110 facility.

Building 118.
Building 118 was 360 a square-foot Inspection Station.

Building 120.
Building 120 was constructed in 1980. The building was built for an office and the storage of Radiological Assistance Team supplies. It later became administrative offices for the Decontamination and Decommissioning (D&D) Group and the Heat Source Program.

Buildling 128.
Building 128 was constructed in 2001 in support of the Nuclear Energy mission at Mound. The building contained two 100 HP hot water boilers and a duplex primary/secondary pumping system to provide hot water to Buildings 50, 36, 37 and 126.

Brickmaker.
The Brickmaker Tents were constructed in 1992 as temporary structures to house the brickmaker equipment. The three tents were steel-framed Rubb®-Brand buildings measuring approximately 39 x 60 feet, 15 x 40 feet, and 25 x 60 feet. The tents were located in the upper portion of the Test Fire Valley between the Main Hill and the Special Metallurgical/Plutonium Processing (SM/PP) Hill. The Brickmaker equipment, which had been housed in the tents, was designed to compress low-level radioactively contaminated soils into extruded bricks for soil offsite disposal. Trial runs of the equipment occurred in 1994 and 1995. However, elevated disposal costs for compacted soil, as well as equipment operational challenges caused the brickmaker equipment to be uneconomical. Later, a pilot program to test a process to combine coal and paper sludge into briquettes was initiated and then abandoned. In 1999, the brickmaker equipment was radiologically surveyed and cleared for free release. The equipment was sold at auction and removed from the site. Adjacent to the Brickmaker Tents, there had also been a single-wide trailer with wooden decking. That trailer was removed in 1997, transferred to the Spoils Area, and later demolished. Subsequent to the removal of the brickmaker equipment, the tents were used to provide temporary shelter to heavy equipment. No waste was stored in the Brickmaker Tents. There were no utilities or sanitary services provided at the Brickmaker Tents. There was a sump (located just south of where the largest tent had been located) that had been used to contain runoff from the brickmaker equipment. After completing the Brickmaker Tent demolition, the sump fluid was removed and analyzed. The analytical results were all below appropriate screening levels. The sump was then removed, radiologically surveyed, and disposed of, and the resulting excavation backfilled. There were no Potential Release Sites (PRSs) associated with the Brickmaker Tents.

CS Building.
CS Building was a 3000 square foot Carpenter Shop that was demolished prior to 1959.

EG-2.
EG-2 provided operational space for an emergency diesel generator. It included a 5000-gallon underground storage tank, which had been filled with concrete and a 500-gallon above ground fuel oil tank.

EG-7.
EG-7 was a single-story, 80 sq. ft. rectangular building used to house an emergency generator to provide emergency power to the Test Fire Valley. EG-7

was built in 1972, and taken out of commission in the 1990s. EG-7 was located immediately adjacent to the Test Fire substation. Due to its proximity to the 12,470V underground lines of the Test Fire substation, and with the concurrence of the Core Team, the concrete slab was left in place following removal of the building and generator.

GP-16.
Guard Post 16 was a 102 square-foot building demolished in 1998.

GP-38.
Guard Post 38 was a 50 square-foot building demolished in 1998.

GP-44.
Building GP-44, a former guard post, was a 365-square-foot, one-story structure. The building contained an equipment room, the former guard office, and a clothing storage room. When GP-44 was an active guard post, Room 4 was used for uniform storage and Room 3 was used as a laundry room for security uniforms.

Magazine 6.
Magazine 6 was a one-story, 90-square-foot reinforced concrete structure. The roof was also of reinforced concrete. Magazine 6 was constructed in 1949 and was used for storage of energetic materials since construction.

SM Building.
SM was a large building that processed radioactive materials. It was demolished in the 1990s, and contaminated soils associated with the building were removed.

Warehouse 4.
Warehouse 4 was 2507 square-foot warehouse demolished between 1949 and 1959 (based on aerial photos).

Warehouse 5.
Old Warehouse 5 was 9540 square-foot warehouse demolished between 1949 and 1959 (based on aerial photos).

Warehouse 6.
Old Warehouse 6 was 2611 square-foot warehouse demolished between 1949 and 1959 (based on aerial photos).

Warehouse 8.
Warehouse 8 was 3450 square-foot warehouse demolished prior to 1959 (based on aerial photos).

Warehouse 10.
Warehouse 10 was 4235 square-foot warehouse demolished between 1949 and 1959 (based on aerial photos).

Warehouse 13.
Warehouse 13 was 4299 square-foot warehouse demolished between 1949 and 1959 (based on aerial photos).

Warehouse 14.
Warehouse 14 was 3960 square-foot warehouse demolished between 1965 and 1968 (based on aerial photos).

Warehouse 15.
Warehouse 15 was 6248 square-foot warehouse demolished between 1965 and 1968 (based on aerial photos).

Warehouse 15A.
Warehouse 15A was 1052 square-foot warehouse demolished between 1965 and 1968 (based on aerial photos).

BUILDINGS LOCATED IN PARCEL 8

COS Building.
The building was used for production support for weapons components including explosive laboratories, a standards lab and a robotics lab. The building has been leased since 1995 by the DOE to the MMCIC. It has been subleased since 1995 by MMCIC.

OSW Building.
Building OSW housed computer aided design (CAD) products, process, drawing control program management and administrative offices, including the MEMP's project office. The building had been used as an administrative support facility since its construction.

T Building.
Building T is a heavily-reinforced, underground concrete structure built in 1948. The building had two floors that were compartmentalized into three general areas by two 30 inch thick fire walls. The reinforced concrete exterior structure has a 15-foot thick roof, 16-foot thick walls on an eight-foot thick slab. The overall design of the building was to withstand a direct hit by a bomb. Access to the building is by tower either at the east and west end of the building or by a service tunnel. Adjacent buildings were Buildings E, M, and R to the north, Building HH to the south, and Building DS (above). Building T was originally used to purify Polonium-210 for use in nuclear weapons. The facility was later used to extract various other radionuclides, such as bismuth and beryllium. Other operations included nickel carbonyl vapor deposition plating processes, neutron activation

analysis, and the storage of packaged transuranic (TRU) materials. Building T was later used for tritium operations, recovery and purification, calorimetry production, heat source calibration, and x-ray and safeguards gamma scanning.

BUILDINGS DEMOLISHED IN PARCEL 8

Building 1.
Building 1 was constructed in 1958. It consisted of four heavy-walled rooms, plus a small office area. Research and testing activities involving energetic materials have been conducted in the building. In the past, the building was used for processing and blending of explosive powders. More recently, it was used for packaging of energetic materials.

Building 5.
Building 5 was a 375 square-foot Inspection Station demolished in 1998.

Building 16.
Building 16 was a one-story metal structure on a concrete slab with a metal roof. The building was constructed in 1958 and was used to store equipment in support of operations in Building I. The building was located on the western perimeter of the main hill. Adjacent buildings were Building I to the northwest, Building SW to the east, and Magazines 7 and 11 to the south.

Building 17.
Building 17 was constructed in 1961. Adjacent buildings were Building I to the north and west, Building SW across the roadway to the east, and Magazines 7 and 11 to the south, and Building 16 to the west. The building was used to store and stage chemicals in support of Bonded Stores during production. Chemicals were only opened in the building to sample or test them. Prior to storing chemicals, metal rods and excess material, other than chemicals, were stored there.

Building 19.
The building was a metal jumbo Quonset hut with interior offices/areas/walls. It was initially used for excess equipment storage and salvage sales. More recently the building was used as an investigative-derived materials (IDM) storage facility and as a preparation/packaging facility for samples involving CERCLA project activities.

Building 22.
Building 22 was used to store excess equipment and engineering project materials. In the summer of 1995, the building was modified to accommodate solid radioactive LLW storage activities.

Building 23.
The building was originally constructed as a warehouse for the staging and shipping of low-level radioactive waste. The building was then used to store mixed and transuranic (TRU) mixed waste. The building was modified in 1994 to contain spills by coating the floor and installing trenches and dikes.

Building 25.
The building initially was used as a low-level counting (radiological measurement) facility. Historical documents indicate that pre-World War II materials were sought for the counting facility, presumably to eliminate the possibility that trace levels of man-made radionuclides would influence the analysis. It later housed instrumentation that was used to collect meteorological information. Computers in the building received data from two onsite weather-monitoring towers. These computers were connected to Lawrence Livermore Laboratory, where the information would be used to predict dispersion patterns in the event of any airborne releases.

Building 26.
Building 26 was constructed in 1965. The building was used for a welding shop, storage, and office areas. It was emptied and dismantled in 1996

Building 34.
The building served as the old burn building, an area formerly used for training Mound firefighters. Various fuels and flammable materials were burned to simulate potential emergency situations. The facility was later used as the soils counting lab.

Building 41.
Building 41 was a 234 square-foot Waste Transfer Station that was demolished between 1983 and 1994 (based on aerial photos).

Building 48.
Building 48 was constructed in 1970. Offices were on the first floor, and analytical laboratories and a machine shop were located on the second floor. This building was renovated in the late 1999 timeframe to serve as the environmental monitoring laboratory.

Building 55.
Building 55 was constructed in the early 1970's. The two-room structure consisted of a former water testing laboratory containing a sink and an electric water heater and a storage/equipment room. The building was most recently used for storing water sampling equipment, supplies, and containers.

Building 56.
The building and associated structures were used as the booster station for fire suppression since its initial construction. It was not known to be contaminated

with radioactive or energetic materials. It housed a diesel-powered fire suppression water pump station and a 500-gallon (above grade) fuel storage tank. The facility included an at-grade 350,000 gallon metal groundwater storage tank adjacent to the building.

Building 57.
The building was the control room/lab for the Sanitary Sewer Plant since its initial construction.

Building 58.
Building 58 was the alpha and beta air filter bank and plenum exhaust for Building SW. A HEPA filtration system filtered out alpha and beta particulate from the exhaust of several rooms in Building SW. The building contained ventilation equipment possibly contaminated with radioactive materials.

Building 68.
Building 68 was constructed in 1979. Adjacent buildings were Building R to the north, Building E to the east, and Building DS to the south. Building 68 was used as a staging area for Decontamination and Decommissioning (D&D) operations and as a storage area for Maintenance. Containers of radioactive waste, primarily of low-specific activity (LSA), from Buildings R and SW were staged for shipping. A portion of Building 68 was used to store parts and materials for maintenance operations. The building was used for the same purpose since construction. No research, development or production activities using radiation or energetic materials occurred in the building.

Building 69.
Building 69 was a 1,620-square-foot, single-story, modular wooden building. The building was bordered by Building M to the north, Building T west tower to the west, Building T east tower to the east, and Building DS to the south. The building was used for offices and was sold in 1996.

Building 70.
Building 70 was a 3,366-square-foot building that housed offices. The building was bordered by Building E to the north, Building T west tower to the west, Building T east tower to the east, and Building DS to the south. The building was used for offices and was sold in 1996.

Building 72.
Building 72 was designed for and was used for hazardous waste storage since it was constructed. Constructed in 1984, had three bays, with a dry sump under each bay to collect spillage. The sump's contents were pumped to drums. An interior masonry wall provided extra protection for the storage of explosive materials.

Building 79.
Building 79 was a modular office trailer located east of Buildings 23 and WD, and south of Building 56. The building was used exclusively for offices. No research, development, or production activities using radioactive or energetic materials occurred in the building.

Building 89.
The building was originally used for the storage of sealed energetic materials. Since leasing the building in 1999, the MMCIC had used it for general storage. No research, development, or production activities using radioactive materials were known to have occurred in the building.

Building 92.
Building 92 was a one-story wooden modular structure on concrete pillars. The building was brought on site in 1984 and was located on the western perimeter of the main hill. Building 92 was originally used for several years as a training facility in support of production operations at Mound. The types of training classes taught were production documentation methods, product index training, microscope and gauging techniques, and solder certification. Chemicals used in the solder certification training were ethyl alcohol, lead-based solder, soldering flux, and remover. Later the building was converted to offices for Industrial Hygiene.

Building 93.
Building 93 was constructed in 1984. The building was originally assembled as an office facility. The building was used for the same purpose since construction. The building was not contaminated with radiological or energetic materials.

Building 94.
Building 94 was used for CERCLA environmental program contractor staging and for soil and water sample storage. The building originally housed a laboratory in one bay and environmental ovens in the other two bays. Investigations related to materials compatibility were conducted using energetic materials.

Building 104.
The facility served as the maintenance shop for the test fire area and contained office areas and electronics and small parts assembly room, parts storage, and a fabrication/maintenance shop. No research, development, or production activities using radioactive or energetic materials occurred in the building.

Building 112.
Building 112 contained equipment filters and effluent treatment, testing and monitoring. Building 112, constructed in 1985, was one of the buildings that comprised the Mound Wastewater Treatment Plant (MWWTP), commonly referred to as the Sanitary Disposal (SD) Facility.

Building 113.
Building 113 contained dewatering equipment and was used for chemical and equipment storage. This was one of the buildings that which comprise the Mound Wastewater Treatment Plant (MWWTP), commonly referred to as the Sanitary Disposal (SD) Facility.

Building 114.
Building 114 had 432 sq. ft. and in 1990 was being used for Nitrogen separation.

Building 123.
Building 123 was a 3838 square-foot Waste Processing building demolished in 2004.

Building 124.
The facility was used for size-reducing waste from site removals that contain both radioactive and chemical contamination. The facility housed a box repackaging area, plasma arc cutting station, a blasting room, and a compactor station. This facility was a temporary Rubb Manufactured Building erected on an 8-inch reinforced concrete slab.

Building 125.
The Alpha Treatment System facility was located at Mound on a site formerly occupied by Building 79. The facility was a temporary building structure, mirroring the radioactive wastewater treatment process done in Building WD.

Building 415.
Building 415 was used for chemical and equipment storage. This is one of six buildings which comprise the Mound Wastewater Treatment Plant (MWWTP), commonly referred to as the Sanitary Disposal (SD) Facility.

Building 432.
Building 432 contained equipment to test samples of water. This was one of six buildings which comprise the Mound Wastewater Treatment Plant (MWWTP), commonly referred to as the Sanitary Disposal (SD) Facility.

B Building.
Until 1956, B Building was used for biological animal studies addressing acute and chronic effects of exposure to polonium and actinium. After 1956, the building was used for the production of inert and/or plastic components of weapons devices and detonators. It was used for non-destructive testing, laser welding and marking, physical vapor deposition (PVD), metallurgical inspections, and as a mold shop. Organic solvents were used in many of these operations. There was a clean room in the north addition that had high-efficiency particulate air (HEPA) filter modules in the wall to filter incoming room air. The clean room was used for physical vapor deposition and transducer production.

BPB
BPB was a 11,250 square-foot Ex-Situ Bioremediation facility demolished in 2001.

DS Building.
Building DS housed metrology, receiving inspection, and non-destructive testing facilities. The metrology area contained processes conventional to metrology: measurement, calibrations and testing for the following five areas: electrical, dimensional, physical, mass, and temperature.

E Building and Annex.
E Building, the "electronics laboratory" was constructed in 1948, as one of Mound's original structures. E Building was constructed to provide an area for repairing, designing and building electronic equipment that was used in the various laboratories and processing areas. Building activities included explosives research and beryllium machining. Later the building supported analytical laboratories used for environmental analysis, offices for the site environmental monitoring personnel and for waste management personnel. The building was not contaminated with energetic materials. Minor chemical and radiological contamination may have been present prior to demolition.

EG-1.
The building housed a Caterpillar D348 diesel generator that provided standby power to the T/R/SW West Stack and portions of Building SW. It also included a 5000 gallon underground storage tank which has been filled with concrete.

EG-4.
The building housed a Caterpillar D348 diesel generator.

EG-6.
The building housed a Caterpillar D348 diesel generator that serves as the standby power to the Building 58 exhaust fans and portions of Building SW.

EG-7.
Electrical Generator #7 supported TF Security Lights and was removed in 2001.

EG-8.
This facility housed an emergency generator and was one of six buildings which comprise the Mound Wastewater Treatment Plant (MWWTP), commonly referred to as the Sanitary Disposal (SD) Facility.

FH-1.
Stack Fan House-1 and 2 were constructed as brick buildings to house exhaust fans that serviced T Building.

FH-2.
Stack Fan House-1 and 2 were constructed as brick buildings to house exhaust fans that serviced T Building.

GP-5.
Building GP-5 was a guard post located to the east of T Building.

GP-8.
Building GP-8 was a security guard post located along the Mound Road at the east entrance to the Mound Plant, north of Building 61.

GP-8A.
Building GP-8A was a security guard post located along the Mound Road at the east entrance to the Mound Plant, north of Building 61.

H Building.
Building H housed the laundry facilities for plant uniforms worn by radiation workers, explosives workers, and maintenance personnel. The water generated from the laundry was collected in a holding tank on the "hot side" of the building. Then the water was drained through a pipe to a lift station at Building SW and transferred to WD Building.

HH Building.
The building was originally built to receive and process highly acidic and highly contaminated liquid radioactive waste from the polonium processing operations in Building T. This waste was processed to recover bismuth for reuse. Liquid waste from this process was collected in a sump in the southwest corner of Room 6 and then sent via an underground line to WD Building (this pipeline was removed a few years ago). The polonium waste processing ended about 1958. In the mid-1950s, the building was also used for several projects involving the separation of Pa-231 and Th-230, as well as other isotopes from some processed uranium byproduct materials obtained from other AEC operations. In about 1960, HE-3 separation was started in Building-HH using thermal diffusion columns. In the early 1960s, the building was used for the separation of a variety of stable isotopes using gaseous thermal diffusion, liquid thermal diffusion, and cryogenic processes. In the late 1970s, there was some experimental work done with uranium. From about 1964 to about 1985, He-3 was separated in Rooms 17 and 18 using cryogenic carbon traps to remove the tritium from the feed gas. In the early 1980s, chemical exchange experimentation was also conducted in the building. The sulfur, calcium, and nitrogen isotopes were separated using packed columns. The building has been demolished.

I Building.
Building I was used for loading and testing of explosive actuators in support of defense programs. There were two Class 100,000 clean rooms in the building. One of the clean rooms, which had never been used, was on the newly

remodeled second floor of the northwest addition. This clean room had high efficiency particulate air absorber (HEPA) filter modules in the ceiling to filter incoming room air and new HEPA lab benches throughout.

M Building.
Building M was one of the original buildings constructed in 1948. Building M was the former machine shop and housed electroplating operations. Other functions conducted in the building over the years included electronics maintenance, an electrical substation, and excess material staging and storing.

Mag-10.
Magazine 10 was a one-story reinforced concrete structure constructed for storage of pyrotechnics and energetic materials.

Mag-11.
Magazine 11 was a one-story reinforced concrete structure constructed for storage of pyrotechnics and energetic materials.

Mag-5.
Magazine 5 was a one-story reinforced concrete structure constructed for storage of pyrotechnics and energetic materials.

Mag-54.
Magazine 54 was a one-story reinforced concrete structure constructed for storage of pyrotechnics and energetic materials.

Mag-7.
Magazine 7 was a one-story reinforced concrete structure constructed for storage of pyrotechnics and energetic materials.

P Building.
The power house provided space for the centralized process and breathing air, boilers for steam, chilled water supply and return along with treatment of raw water (potable) and electrical power distribution. The Mound East electrical substation was located within Room 3, on the first floor of Building P. Both received power from three parallel DP&L 12.5 KV feeders. Electrical power was then distributed throughout Mound to each substation. In addition to the office-related rooms, the first floor contained the two main boilers, three chillers, potable water treatment equipment, a standby generator, the main plant control/utilities distribution and consumption monitoring console station, chemicals/chemical injection equipment, and plant controls. The mezzanine contained pumps, compressors and two chillers.

PS Building.
This facility housed the paint shop with an OEPA-permitted paint spray booth. It contained processes conventional to painting such as brush painting and spray

painting, storage of supplies (latex and non-latex paints), sanding, priming, and drying. The building also housed a sign fabrication area that made computer-generated signs.

R Building.
Building R was one of the original buildings constructed in 1948. The building was divided into two areas: the "cold" side and the "hot" side. The "hot" side was associated with radiological areas; in particular, it was used for tritium recovery and various analytical support tasks. The "cold" side of the building contained research and development laboratories, analytical laboratories, a respirator fitting facility, offices, and the library. The building was contaminated with energetic and radiological materials. In several rooms, beryllium contamination existed in fumehoods and associated ductwork.

S-B.
Shed B occupied 60 square-feet and was removed in 2000.

SD Building.
Building SD was a two-story, 1,593-square-foot facility that was used for sewage disposal. It was constructed in 1948. It remained in service until 1975. The building was bordered by Building 56 on the west, Building WD to the east and north, and a roadway along the south side. The building was used for sanitary treatment and sewage disposal. The facility was potentially contaminated with radioactive materials and metals.

SW Building.
Building SW was located on the main hill. Adjacent buildings were Building B to the north, Building R to the east, and Building I to the west. Building SW was used for tritium recovery and purification, tritium component development, component evaluation, titanium hydride synthesis, and analysis of materials. Past operations included research projects on plutonium, uranium, thorium, and protactinium. The building was contaminated with radiological materials. No research, development or production activities using energetic materials have occurred in the building.

WD Building.
Building WD was the treatment facility for low specific activity (LSA) radioactive liquid wastes generated by process activities at Mound. Processes, which were housed within the WD facility, include alpha wastewater treatment, beta wastewater treatment, laboratory and bench-scale research, LSA waste drum repackaging, a glass melter furnace and a packed bed reactor.

Warehouse 15.
WH-15 was a 6248 square-foot warehouse that was demolished between 1965 and 1968 (based on aerial photos).

Warehouse 7.
WH-7 was a 4200 square-foot warehouse that was demolished between 1949 and 1959 (based on aerial photos).

Warehouse 9.
WH-9 was a 1470 square-foot warehouse that was demolished between 1959 and 1965 (based on aerial photos).

APPENDIX E

PRS Information

PARCEL 6

PRS-106: G Building Soils (a.k.a. Garage Area).

PRS-107, PRS-108 and PRS-109: G Building Gasoline Tank (Tank 202).
PRSs 107, 108, and 109 were the locations of three historical underground gasoline storage tanks. All three tanks were removed. Soil around the tanks was excavated, spread out at a stockpile location to volatilize the gasoline, and disposed at the Mound construction spoils area.

PRS-126 and PRS-127: Building 28 Solvent Storage Area.
PRSs 126 and 127 refer to the temporary storage locations for waste solvents generated by the Building 28/60 operations. The solvents were used in cleaning operations during the manufacture of weapon components.

PRS-211: A-Building Decontamination Shower Water Tank (Tank 28)..

PRS 212: A-Building Decontamination Shower Water Tank (Tank 29).

PRS-241: Northwest Parking Lots.
PRS 241 consists of the northwest parking lots, including the parking lots east of OSE Building, south of GH Building and the parking lot north of A Building. This PRS was created due to several positive soil gas detections..

PRS-242: Volatile Organic Compound (VOC) Potential Hot Spot Location 1016.
The site was designated a PRS because of VOC detections during a soil gas survey.

PARCEL 7

PRS-308: Site Survey Project Potential Hot Spot Location C0028.
The PRS 308 was identified as a radiological hot spot (C0028) located near the eastern boundary of Mound Plant SM/PP Hill.

PRS-412: Soil Contamination – Radiological.
PRS 412 (hot spot C0033) was identified during the radiological Site Survey Project. Thorium was detected at 42 pCi/g at this location.

PRS-32: Underground Sanitary Sewer Line G12.
PRSs 31-36, 125 and 270 were identified as the result of breaks and/or separations in Mound's sanitary sewer lines, identified during a 1982 video survey of the lines.

PRS-36: Underground Sanitary Sewer Line G15.

Potential Release Sites (PRSs) 31-36, 125 and 270 were identified as PRSs as a result of breaks and/or separations in Mound's sanitary sewer lines, identified during a 1982 video survey of the lines.

PRS-37: Building 51 Waste Solvent Storage Tank (Tank 220).
PRS 37 was identified as an underground storage tank used to hold waste solvents prior to incineration, in Building 51.

PRS-38: Building 51 Waste Incinerator.
This PRS was associated with Building 51 which was demolished to facilitate the PRS 66 Removal Action.

PRS-39: Building 51 Waste Incinerator Scrubber.
This PRS was associated with Building 51 which was demolished to facilitate the PRS 66 Removal Action.

PRS-40: Building 66 Lot.
PRS 40 was identified as a local area of plutonium-238 contamination found during a construction project.

PRS-65: Building 61 Area, Former Heavy Equipment Area.
PRS 65 was identified the Building 61 Heavy Equipment Storage Area.

PRS-66: Area 7, Thorium and Polonium Wastes.
PRS 66 encompassed a historical ravine that had been leveled with fill, and paved over with asphalt. Records show the practice of disposing waste items into the ravine continued through the mid-1960s.

PRS-67: Plant Drainage Ditch.
PRS 67 is an open, unlined channel that flows above ground through the central part of the facility from Building 22 to the retention basins on the western plant boundary. The ditch carries surface run-off from both the Main Hill and SM/PP Hill areas and the asphalt lined pond that drains the ditch through culvert, emerging behind Building 22. From that point the open ditch falls 40 feet over a length of 1800 feet.

PRS-68: Asphalt-Lined Pond.
The Asphalt-lined pond (near Building 61) was identified as a PRS during the Preliminary Review/Visual Site Inspection for RCRA facilities in 1988. The Asphalt-lined pond began operating in the 1970s. It was approximately 150 ft by 150 ft with a nominal capacity of 1.5 million gallons. The pond received storm water from the SM/PP Hill storm sewers, SM/PP hillside runoff, and non-contact cooling water. The pond provided temporary storage, flow equalization, and retention time for removing suspended solids prior to discharge to the drainage ditch (PRS 67).

PRS-72: Area 13, Polonium-Contaminated Wood from Dayton, Unit IV.
PRS 72 was identified as the area used in the early 1950s for the storage of contaminated materials (i.e., wood, equipment and other material) brought to Mound from the former Dayton Unit operations.

PRS-77: Warehouse 10.
This PRS is the footprint of previously removed warehouse.

PRS-78: Warehouse 13.
This PRS was the footprint of previously removed warehouse.

PRS-79: Warehouse 15.
PRS 79 was the historical warehouse 15. It was identified as a PRS because of thorium redrumming operations performed in the warehouse. It was dismantled in mid-1960s and the Central Fire House (Building 98) was constructed on the location.

PRS-80: Warehouse 15A.
PRS 80 was identified due to process history pertaining to operations in Warehouse 15A, primarily the loading of radioactive waste for offsite shipment.

PRS-83: Building 2 Propane Storage Tank (Tank 122).

PRS-85: Building 29 Solvent Storage Shed.
PRS 85 was identified due to its use as a solvent storage shed. Construction and operation of the shed began in 1972 and the shed became inactive in 1990.

PRS-86: Building 29 Septic Tank (Tank 224).
PRS 86 is an actinium contaminated soils area near an inactive underground septic tank.

PRS-87: Building 49 Solvent Storage Shed.
PRS 87 refers to the sheds that supplied solvents to the cleaning operations performed in Building 49. The Building 49 operations used two sheds. The first shed was built in 1968 and operated until 1986. This shed, located on the north side of Building 49, was demolished in 1986 to provide space for the construction of the Building 49 addition. Another shed was built and was located approximately 100 feet east of the Building 49 addition. This shed was a small metal structure (8x12x10 feet) that was operational from 1986 to the early 1990s.

PRS-89: Test Fire Residual Storage Area.

PRS-235: Area of Possible Elevated Thorium Activity.
As a result of the 1983 Radiological Site Survey, this plot of soil (25000 ft^2) was identified as an area of possible elevated thorium activity.

PRS-266: Area 8, Thorium-Contaminated Soils from Areas 1 and 9.
PRS 266 was identified as a potential release site as a result of historical information and the Radiological Site Survey performed in October 1983. The 25,000 sq. ft. area has three sets of data indicating high levels of thorium-232 (greater than 200 pCi/g).

PRS-267: Area 9, Thorium Storage and Redrumming Area.
PRS 267 was identified as one of the site's historic thorium redrumming areas. It became a PRS based on historic operations and sample results above screening levels.

PRS-268: Building 31, Contaminated Material Storage Building.

PRS-269: Building 36 Historic Gasoline Tanks (Tanks 239 and 240).
Potential Release Site (PRS) 269 is an area of land where two underground fuel storage tanks were shown to be located in support of original plant construction in a 1948 construction drawing that indicated a fueling facility existed near the northwest corner of Building 50. No documentation of the tanks having been removed has been found, although it is believed that they were removed as part of construction demobilization.

PRS-270: Underground Sanitary Sewer Lines G6 and G7.
Potential Release Sites (PRSs) 31-36, 125 and 270 were identified as PRSs as a result of breaks and/or separations in Mound's sanitary sewer lines, identified during a 1982 video survey of the lines.

PRS-271: Building 37 Sanitary Waste Tank (Tank 100).

PRS-272: Area 10, Concrete Debris.
This soils area was identified as a Potential Release Site (PRS) because of (1) evidence that polonium-210 contaminated debris was dumped in the area and (2) suspicion of thorium-232 and or plutonium-238 run-off from Area 12 (PRS 273).

PRS-273: Area 12, Thorium-Contaminated Soil from Area 1.
This soils area was identified as a PRS due to historic use as a disposal site for radiological contaminated soil. Plutonium and thorium exist in the soil of PRS 273 at levels which present an unacceptable risk to potential future construction activities.

PRS-274: Area 21 Former Detonator Shack.
The Potential Release Site (PRS) 274/275 Removal Action was performed at a soil location on the south central slope of the Special Metallurgical/Plutonium Processing (SM/PP) Hill, west-northwest of Building 105 on the southeast end of the Mound Plant.

PRS-275: Former Explosives Bunker.

Potential Release Sites (PRS) 274/275 were former structures located in the east-central part of the Mound Plant property.

PRS-277: Area J, Hillside Disposal Area (AKA Dredged Material Disposal Area 11a).
Potential Release Site (PRS) 277/278 is a former disposal area (chemical and radiological) and catch basin located in the east central part of the Mound property.

PRS-278: Area J, Hillside Catch Basin.
Potential Release Site (PRS) 277/278 is a former disposal area (chemical and radiological) and catch basin located in the east central part of the Mound property, and was binned Further Assessment by the Core Team in 1995.

PRS-285: Area 11, Contamination from SM Building Operations.

PRS-286: Area 16, SM Building Sanitary Sewage Septic Tank Leach Field.

PRS-287: SM Building Historic Septic Tank (Tank 241).

PRS-288: Area 17, SM Building Soils.

PRS-289: SM Building Alpha Wastewater Tank (Tank 210).

PRS-290: SM Building Alpha Wastewater Tank (Tank 211).

PRS-291: SM Building Alpha Wastewater Tank (Tank 212).

PRS-292: SM Building Alpha Wastewater Tank (Tank 213).

PRS-293: SM Building Solidification Unit (Room SM-1).

PRS-294: WS Building Solidification Unit.

PRS-295: Building 38 Solid Radioactive Waste Compactors (2 units).

PRS-296: Building 38 West Dock Sump (Tank 25).

PRS-297: Building 38 Alpha Wastewater Sump (Tank 26).

PRS-298: Building 38 Alpha Wastewater Sump (Tank 27).

PRS-299: Building 38 Diesel Fuel Storage Tank (Tank 121).

PRS-300: Area 19, Underground Waste Transfer Line.

This PRS was identified based on the fact that a pair of lines (waste transfer system) had been installed to transfer plutonium-238 contaminated waste solutions from SM Building to WD Building. The PRS consists of the WTS lines and the soil surrounding them from the SM area to the WD Building, a distance of approximately 2,600 feet.

PRS-301: Building 38 In-Line Incinerator.

PRS-302: Area D, Acid Leach Field.
PRS 302 was identified as the acid leach field, which was intended to neutralize acidic solutions spilled from a plutonium processing facility.

PRS-303: Warehouse 14 (AKA Pad 14).
Potential Release Site (PRS) 303 was identified as a result of historical storage of waste materials in Warehouse 14 (AKA, Pad 14).

PRS-305: SM Stack.

PRS-307: Site Survey Project Potential Hot Spot Location C0007.
Potential Release Site (PRS) 307 was identified due to a subsurface thorium detection.

PRS-309: Site Survey Project Potential Hot Spot Location S0307.
Potential Release Site (PRS) 309 was identified due to a single thorium detection during the site survey project. No hazardous or radioactive waste generating processes were known to have occurred at this location.

PRS-310: Site Survey Project Potential Hot Spot Location S0647.
Potential Release Site (PRS) 310 was created due to a cesium detection. Potential Release Site (PRS) 382 was identified from relatively elevated qualitative soil gas information (PETREX).

PRS-319: Epoxy Resin Disposal. (Waste Transportation Vehicles, Trash Dumpsters, and Epoxy Resin Waste Storage Site – Building 49).
Potential Release Sites (PRSs) 315, 316 and 319 were identified in the 1988 RCRA Facility Assessment (RFA) during the Visual Site Inspection (VSI) at Mound. They were identified due to potential releases from the trash dumpsters or the waste transport vehicles.

PRS-326: Building 38 Sanitary Sump (Tank 254).

PRS-330: Building 2 Fuel Oil Tank (Tank 260).
PRS 330 is the site of a former underground storage tank located in the western sector of the original Mound Plant.

PRS-331: Building 2 Tank (Tank 261).

This location was identified as a Potential Release Site (PRS) because the tank had been used to receive the discharge of sanitary waste water from Building 2.

PRS-336: Building 37 Waste Tank (AKA Low Risk Waste Tank) (Tank 270).
Potential Release Site (PRS) 336 was identified as the Building 29 Septic Tank, which is now inactive.

PRS-338: Building 29 Septic Tank (Tank 270).
This tank is approximately 20 feet beneath the parking lot in fill material east of Building 29.

PRS-364: Elevated Soil Gas Location.
Potential Release Site (PRS) 364 was identified due to elevated qualitative PETREX hydrocarbon levels.

PRS-382: Elevated Soil Gas Location (Soil Contamination – Building 95).
Potential Release Site (PRS) 382 was created due to a cesium detection. The cesium at PRS 382 has subsequently been removed and sampling conducted in 1995 indicated that no cesium was present.

PRS-385: Elevated Soil Gas Location.
This PRS was identified as a result of elevated, qualitative PETREX soil gas sampling during an OU5 investigation.

PRS-386: Elevated Soil Gas Location.
This PRS was identified as a result of elevated, qualitative PETREX soil gas sampling during an OU5 investigation.

PRS-387: Elevated Soil Gas Location.
This PRS was identified as a result of elevated, qualitative PETREX soil gas sampling during an OU5 investigation.

PRS-388: Elevated Soil Gas Location (Soil Contamination – Parking Lot Area Near SM/PP Hillside
Potential Release Site (PRS) 388 was identified due to elevated qualitative PETREX hydrocarbon levels.

PRS-389: Elevated Soil Gas Location.
PRSs 389 and 392 were located in the eastern sector of the original Mound plant. These soil locations were identified as PRSs due to qualitative hydrocarbon detections found during the PETREX soil gas portion of the OU5, *Non Area of Concern* investigation.

PRS-390: Elevated Soil Gas Location (Soil Contamination – Organic Compounds).

PRSs 390, 393 and 394 were located in the northern sector of the original Mound plant. These soil locations were identified as PRSs due to qualitative hydrocarbon detections found during the PETREX soil gas portion of the OU5, *Non Area of Concern* investigation.

PRS-391: Elevated Soil Gas Location.
This area was identified as a Potential Release Site in June 1994 due to qualitative PETREX soil gas results obtained during the OU5, Operational Area Phase I Investigation.

PRS-392: Elevated Soil Gas Location.
PRSs 389 and 392 were located in the eastern sector of the original Mound plant. These soil locations were identified as PRSs due to qualitative hydrocarbon detections found during the PETREX soil gas portion of the OU5, *Non Area of Concern* investigation.

PRS-393: Elevated Soil Gas Location (Soil Contamination – Organic Compounds).
PRSs 390, 393 and 394 were located in the northern sector of the original Mound plant. These soil locations were identified as PRSs due to qualitative hydrocarbon detections found during the PETREX soil gas portion of the OU5, *Non Area of Concern* investigation.

PRS-394: Elevated Soil Gas Location (Soil Contamination – Organic Compounds).
PRSs 390, 393 and 394 were located in the northern sector of the original Mound plant. These soil locations were identified as PRSs due to qualitative hydrocarbon detections found during the PETREX soil gas portion of the OU5, *Non Area of Concern* investigation.

PRS-395: Elevated Soil Gas Location.
This PRS was identified due to qualitative PETREX soil gas results from an OU5 investigation. Subsequent, quantitative sample indicated all concentrations of VOCs, SVOCs, PCBs, pesticides, metals, radionuclides, and explosives below regulatory and 10^{-6} risk based levels.

PRS-396: Elevated Soil Gas Location.
This area was identified as Potential Release Site in June 1994 due to qualitative PETREX soil gas results during the OU5, Operational Area Phase I Investigation.

PRS-397: Elevated Soil Gas Location.
Potential Release Site (PRS) 397 is located south of the former fuel tanks (Figure 1). FA was performed and confirmed that levels of BTEX and PAH were acceptable.

PRS-398: Elevated Soil Gas Location.

This PRS is within the footprint of the PRS 66 Removal Action.

PRS-399: Elevated Soil Gas Location.
PRS 399 was identified as a result of a single elevated relative soil gas reading near the Building 51 Solvent Waste Tank. The tank was removed in 1990. Soil sampling in 1991, 1992, and 1996 failed to detect any organics above the guideline criteria. In addition, all samples indicated that radionuclides were below guideline criteria.

PRS-400: Elevated Soil Gas Location.
This soils location was identified as PRS 400 due to a single plutonium-238 detection found during the OU5, Operational Area Phase I Investigation.

PRS-401: Elevated Plutonium-238 Location
This soils location was identified as PRS 401 due to a single plutonium-238 detection found during the OU5, Operational Area Phase I Investigation.

PRS-402: Elevated Soil Gas Location.
This PRS was identified as a result of qualitative soil gas sampling during an OU5 investigation.

PRS-403: Elevated Soil Gas Location.
This PRS was identified as a result of qualitative soil gas sampling during an OU5 investigation.

PRS-404: Elevated Soil Gas Location.
This PRS was identified as a result of qualitative soil gas sampling during an OU5 investigation.

PRS-422: Plutonium Hot Spot (Elevated Plutonium-238 Spot).
PRS 422 was identified as a PRS based on a historic elevated plutonium-238 sample that was collected in 1982.

PARCEL 8

PRS-7: Plant Sanitary Outfall Pipeline.

PRS-14: Area C, Waste Storage Area (AKA Drum Staging Area and Chemical Waste Storage).
Potential Release Site (PRS) 14 was suspected to contain Volatile Organic Compounds (VOCs) due to the historical use as a drum storage area for staging chemical waste prior to off-site disposal.

PRS-15: Area C, Lithium Burn Area (AKA Lithium Carbonate Disposal).
PRS 15 was identified due to process history pertaining to the disposal of lithium hydride residue left in drums during the mid-1950s.

PRS-17: Oil Burn Structure.
This Potential Release Site is the Building 34, Oil Burn Structure. It was identified as a PRS because aviation fuel was used in the test-burning operation in the structure. The 1993 OU3, Limited Field Investigation sampled the area in and around the structure.

PRS-18: Building 34, Fire Fighting Training Facility Pit.
The Potential Release Site (PRS) 18 is a former location of the fire fighting training area. In 1989, a cleanup operation was performed at PRS 18 to remove uranium contamination in soil. In 1995, a second cleanup operation was performed at PRS 18 to removed petroleum contamination in soil.

PRS-19: Building 34, Historical Fire Fighting Training Pit.
This Potential Release Site (PRS) 19 is the historical fire fighting pit. It was identified as a Potential Release Site in 1993 during the OU3, Limited Field Investigation.

PRS-20: Building 34, Aviation Fuel Storage Tank (Tank 219).
Potential Release Site (PRS) 20 was identified because of its use as an aviation fuel underground storage tank. The tank was removed in 1990.

PRS-31: Underground Sanitary Sewer Line G5.
Potential Release Sites (PRSs) 31-36, 125 and 270 were identified as PRSs as a result of breaks and/or separations in Mound's sanitary sewer lines, identified during 1982 video survey of the lines.

PRS-32: Underground Sanitary Sewer Line G12.
Potential Release Sites (PRSs) 31-36, 125 and 270 were identified as PRSs as a result of breaks and/or separations in Mound's sanitary sewer lines, identified during 1982 video survey of the lines.

PRS-35: Underground Sanitary Sewer Lines G19 and G14.
Potential Release Sites (PRSs) 31-36, 125 and 270 were identified as PRSs as a result of breaks and/or separations in Mound's sanitary sewer lines, identified during 1982 video survey of the lines.

PRS-41: Area 3, Thorium Drum Storage and Redrumming Area.

PRS-42: Area A, construction Soils from T-Building.
Potential Release Site (PRS) 42 was identified as a PRS due to T Building construction activities and the placement of the excavated soils at this location.

PRS-43: Wastewater Treatment Plant Building 57 Grit Chamber (Tank 101).

PRS-44: Building 57 Grit Conveyer.

PRS-45: Building 57 Comminuter (Tank 102).

PRS-46: Building 57 Equalization Basin (Tank 103).

PRS-47: Building 57 Equalization Basin (Tank 104).

PRS-48: Building 57 Equalization Basin (Tank 105).

PRS-49: Building 57 Equalization Basin (Tank 106).

PRS-50: Building 57 Aeration Basin (Tank 107).

PRS-51: Building 57 Aeration Basin (Tank 108).

PRS-52: Building 57 Clarifier (Tank 109).

PRS-53: Building 57 Clarifier (Tank 110).

PRS-54: Building 57 Sand Filters (2 units).

PRS-55: Building 57 Chlorine Contact Chamber (Tank 111).

PRS-56: Building 57 Chlorine Contact Chamber (Tank 112).

PRS-57: Sludge Spoil Drying Beds.
The sludge drying beds were identified as a Potential Release Site (PRS) 57, in 1988, when elevated levels of plutonium-238 at 1,235 pCi/g and thorium-232 at 63 pCi/g were measured during the construction project to remove the beds. The elevated concentrations were not from the beds but from the soil under the beds after removal. The contamination in the area came from PRS 41, an area that includes PRS 57.

PRS-58: Dredge Spoil Drying Beds.
Potential Release Site (PRS) 58 was identified by the RCRA Facility Assessment due to its use as a storage area for the dredged spoils drying beds.

PRS-59: Contaminated Soil Box Storage Area.
PRS 59 was identified as a storage area for boxes containing plutonium contaminated soil during a USEPA 1988 Preliminary Review/Visual Site Inspection.

PRS-60: Hazardous Waste Storage Area (Building 72).

PRS-61: Building 72 Outdoor Hazardous Waste Storage Area.

PRS-62: Building 72 Empty Drum Storage Area.

PRS-63: Building 19 Soils (Soil Contamination – Building 29).
This site became a PRS because of potential Cobalt-60 and Cesium-137 contamination.

PRS-64: Building 19 Historic Gasoline Tank (Tank 238).

PRS-67: Plant Drainage Ditch.
PRS 67 is an open, unlined channel that flows above ground through the central part of the facility from Building 22 to the retention basins on the western plant boundary. The ditch carries surface run-off from both the Main Hill and SM/PP Hill areas and the asphalt lined pond that drains the ditch through culvert, emerging behind Building 22. From that point the open ditch falls 40 feet over a length of 1800 feet.

PRS-69: Overflow Pond.
PRS 69 is the Mound Overflow Pond and outflow pipe. It is a PRS due to the presence of plutonium-238 contamination, site sanitary landfill leachate, effluent from the plant drainage system, and storm water runoff. The overflow pond is located near the southwest corner of the original plant property. Operating continuously since 1979, the pond has a capacity of 5 million gallons.

PRS-70: Retention Basins and Weir Basin.
This PRS consists of an open-topped impoundment with earthen sides which is used to control the flow of water from the open drainage ditch. The bottom is partitioned into basins by concrete dividers. Also included in this PRS is the Weir basin. It is connected to the retention basins by a spillway.

PRS-71: Building 85 Waste Solvent Tank (Tank 136).
Historical process knowledge indicated that this Potential Release Site (PRS), which is a below grade tank located adjacent to Building 85, was never used.

PRS-75: Railroad Siding (Historical Railroad Spur Area).
Potential Release Site (PRS) 75 is a soils area in the vicinity of the railway siding, created due to its use as a radioactive drum storage, loading, unloading, and repackaging area.

PRS-76: Warehouse 9.
This location was identified as a PRS as a result of historical information on operations conducted in the warehouse. Warehouse 9 was built as part of the original construction of Mound.

PRS-82: Building 57 Diesel Fuel Storage Tank (Tank 118).
Potential Release Site (PRS) 82 was identified as an underground storage tank used to store diesel fuel to start an emergency generator near Building 57.

PRS-84: Building 56 Diesel Fuel Storage Tank (Tank 123).
This former location of a diesel fuel tank was identified as a Potential Release Site (PRS) because of its inclusion in the Mound Plant Underground Storage Tank Program Plan and Regulatory Status Review.

PRS-90: Site Survey Project Potential Hot Spot Location S0425 (Soil Contamination – Building 22).
Potential Release Site (PRS) 90 was based on an isolated thorium reading of 5.74 pCi/g gathered during the 1983 site survey; however, no known radioactive or hazardous waste generating processes were known to have occurred at the location of PRS 90.

PRS-91: Main Hill Seep 0601.
This is one of several seeps located on the hillside of the Main Hill. Water from the seeps shows elevated concentrations of tritium and VOCs.

PRS-92: Main Hill Seep 0602.
This is one of several seeps located on the hillside of the Main Hill. Water from the seeps shows elevated concentrations of tritium and VOCs.

PRS-101: Cooling Tower Basins.

PRS-102: Cooling Tower Drum Storage Area.

PRS-103: E Building Soils.
This soils location was identified as a Potential Release Site (PRS) because of the detection of Volatile Organic Compounds (VOCs) during the Mound Reconnaissance Sampling soil gas survey.

PRS-104: Scintillation Vial Storage Area.
This PRS was located in E Building.

PRS-105: E Building Solvent Storage Shed.
Potential Release Site (PRS) 105 is a remediated soils location that was the former location of the E Building Solvent Storage Shed.

PRS-110: I-Building Soils.
This PRS was identified due to VOC detections during a quantitative OU 5 investigation.

PRS-111: Monitor Well 0034.
Potential Release Site (PRS) 111 was initially identified as a result of a visual inspection of Monitoring Well 0034 which discovered an oily substance during surveillance activities in 1986.

PRS-112: Paint Shop Area.

PRS-113: Powerhouse Soils (Former Tank Site – Powerhouse Fuel Oil Storage Tanks and Soil Contamination).
PRS 113 refers to a single toluene soil gas .

PRS-114, 115, 116, 117: Powerhouse Fuel Oil Storage Tanks (Tanks 113, 114, 115, 116) (Former Tank Site – Powerhouse Fuel Oil Storage Tanks and Soil Contamination).
PRSs 114-117 were the four underground fuel oil tanks near the Powerhouse.

PRS-118: M Building Soils.

PRS-119: Room M-38 Metal Plating Rinse Water Sump (Tank 225).

PRS-120: Room M-108 Metal Plating Rinse Water Tank (Tank 119)

PRS-121: Vapor Degreasers.

PRS-123: Area 5, Radioactive Waste Line Break.
PRS 123 was identified as a result of a December 1970 waste line break. Several radionuclides were detected in the soils at PRS 123.

PRS-124: Building 48 Hillside.
Potential Release Site (PRS) 124 was identified due to a release on 11-09-1967. 1,500 to 2,000 gallons of low-level radioactive wastewater were accidentally released during waste line repair.

PRS-125: Underground Sanitary Sewer Line G24.
Potential Release Sites (PRSs) 31-36, 125, and 270 were identified as PRSs as a result of breaks and/or separations in Mound's sanitary sewer lines, identified during a 1982 video survey of the lines.

PRS-126: Building 28 Solvent Storage Area (Solvent Storage Site – Outside Area Next to Building 28).
Potential Release Sites (PRSs) 126 and 127 refer to the temporary storage locations for waste solvents generated by the Building 28/60 operations.

PRS-128: DS Building Solvent Storage Shed.

PRS-129: B Building Solvent Storage Shed.
PRS 129/130 was the B Building solvent storage shed and its adjacent drum storage pad. VOCs were detected in the soils around PRS 129/130.

PRS-130: B Building Temporary Drum Storage Area.
PRS 129/130 was the B Building solvent storage shed and its adjacent drum storage pad. VOCs were detected in the soils around PRS 129/130.

PRS-131: SW Building Soils.

PRS-132: Area 15, Entombed SW Cave (Rooms SW 1-B).

PRS-133: SW Building Room 1-A.

PRS-134: SW Building Drum Storage Area.

PRS-135: Rooms SW-8 Beta Wastewater Tank (Tank 20).

PRS-136: Room SW-125 Beta Wastewater Tank (Tank 21).

PRS-137: Room SW-143 Beta Wastewater Tank (Tank 22).

PRS-138: Room SW-137 Beta Wastewater Sump (Tank 23).

PRS-139: Room SW-10 Beta Wastewater Sump (Tank 226).

PRS-140: Beta Waste Solidification Facility – SW Building.

PRS-141: Tritium Effluent Removal System.

PRS-142: SW/R Building Solid Radioactive Waste Compactor.

PRS-143: R/SW-T Building Stack Diesel Fuel Storage Tank (Tank 117).

PRS-144: R Building Sanitary Waste Collection Tank (Tank 120).

PRS-145: Room R-128 Alpha Wastewater Tank (Tank 19).

PRS-146: R Building Room 121, 144, 146 and 148 Entombed Drains.

PRS-147: HH Building Soils.
Potential Release Site (PPRS) 147 was identified as a result of the Soil Gas Survey which detected toluene levels ranging from 5 to 23, 142 parts per billion (ppb). No detection of toluene was indicated in the down gradient seep #602, which is approximately 250 feet from PRS 147.

PRS-148: HH Building Solidification Unit.

PRS-149: HH Building Pilot Incinerator.

PRS-150: Room HH-15 Beta Wastewater Sump (Tank 236).

PRS-151: Room HH-6 Alpha Wastewater Sump (Tank 237).

PRS-152: HH Building Beta Wastewater Sump (Tank 24).

PRS-153: Area 20, Radioactive Waste Line Break.
Potential Release Site (PRS) 153 is a soil area on the hillside west of the Hydrolysis House (HH) Building and bounded on the south by a roadway. This soils area, also known as Area 20, was designated a PRS because of contamination by leaks of wastewater from the 3-inch underground pipeline that transversed the northern boundary of this soil area.

PRS-154: Area 23, Thorium Contaminated Soil.
Potential Release Site (PRS) 154, also known as Area 23, is located on the WD hillside and was identified as a PRS based on historic soil sample detections of Plutonium-238, Radium-226, and Uranium-238.

PRS-155: Old Sanitary Disposal (SD) Plant (AKA Old Sanitary Wastewater Treatment Plant).

PRS-156: Old SD Plant Tank (Tank 205).

PRS-157: Old SD Plant Tank (Tank 206).

PRS-158: Old SD Plant Tank (Tank 207).

PRS-159: Area 4A, Sewage Sludge Drying Pits.

PRS 160: Mixed Waste Storage Area (Building 23).

PRS-161: Glass Melter Furnace.

PRS-162: Glass Melter Feed Drum.

PRS-163: Off-Gas Treatment System Deluge Tank.

PRS-164: Off-Gas Treatment System Venturi Scrubber.

PRS-165: Off-Gas Treatment System Cyclone Demister.

PRS-166: Off-Gas Treatment System HEPA Filter.

PRS-167: Off-Gas Treatment System WD Building Filter Bank.

PRS-168: Off-Gas Treatment System Recycle Tank.

PRS-169: Off-Gas Treatment System Strainer.

PRS-170: Off-Gas Treatment System Leaf Solution Filter.

PRS-171: Off-Gas Treatment System Iodine Absorption Filter.

PRS-172: WDA Building Basement Wash Sump (Tank 11) (AKA Glass Melter Room Sump).

PRS-173: Cyclone Incinerator.

PRS-174: WD Building Drum Staging Area.

PRS-175: Area 4, WD Building Influent Tank Overflow.

PRS-176: Area 14, Radioactive Waste Line Break.
In 1974, the soils associated with the WTS leaks (PRS-176) were remediated. In the mid 1980s, the WTS line, the two holding tanks, and Building 43 were removed.

PRS-177: Building 41 Alpha Wastewater Tank (Tank 208).

PRS-178: Building 41 Alpha Wastewater Tank (Tank 209).

PRS-179: WD Building Alpha Wastewater Influent Tank (Tank 3).

PRS-180: WD Building Alpha Wastewater Influent Tank (Tank 4).

PRS-181: WD Building Alpha Wastewater Influent Tank (Tank 5).

PRS-182: WD Building Alpha Influent Tank (Tank 6).

PRS-183: Room WD-1 Basement Sump (Tank 12).

PRS-184: Room WD-1 Alpha Wastewater Sump (Tank 17).

PRS-185: Room WD-1 Sanitary Waste Sump (Tank 134).

PRS-186: Room WD-8 Alpha Wastewater Sump (Tank 18).

PRS-187: WD Building Alpha Wastewater Clariflocculators (2 units).

PRS-188: WD Building Alpha Wastewater Mixing Box.

PRS-189: WD Building Alpha Wastewater Sand Filters (2 units).

PRS-190: WD Building Alpha Wastewater Bone Char Columns (2 units).

PRS-191: WD Building Alpha Wastewater Effluent Tank (Tank 7).

PRS-192: WD Building Alpha Wastewater Effluent Tank (Tank 8).

PRS-193: WD Building Alpha Wastewater Effluent Tank (Tank 9).

PRS-194: WD Building Alpha Wastewater Effluent Tank (Tank 10).

PRS-195: WD Building Alpha Wastewater Sludge Pits (2 units).

PRS-196: WD Building Alpha Wastewater Solidification/Drumming Unit.

PRS-197: WD Building Solid Radioactive Waste Compactor.

PRS-198: WDA Building Basement Sanitary Waste Tank (Tank 135).

PRS-199: WDA Building Beta Wastewater Influent Tank (Tank 13).

PRS-200: WDA Building Beta Wastewater Influent Tank (Tank 14).

PRS-201: WDA Building Beta Wastewater Metering Station.

PRS-202: WDA Building Beta Wastewater Mixing/Solidification Unit.

PRS-203: WDA Building Alpha Wastewater Influent Tank (Tank 15).

PRS-204: WDA Building Alpha Wastewater Influent Tank (Tank 16).

PRS-205: WDA Building Alpha Wastewater Effluent Tank (Tank 214).

PRS-206: WDA Building Alpha Wastewater Influent Tank (Tank 215).

PRS-207: WDA Building Alpha Wastewater Influent Tank (Tank 216).

PRS-208: WDA Building Solidification Unit.

PRS-209: Building 62 Stack Deluge Tank (Tank 1).

PRS-210: Room H-131 Laundry Water Tank (Tank 2).

PRS-213: T Building Solidification Unit.

PRS-214: T Building Solid Radioactive Waste Compactor.

PRS-215: Room T-1 Cooling Water Sump (Tank 124).

PRS-216: T Building, Corridor 2 Sanitary Wastewater Sump (Tank 125).

PRS-217: Room T-11F Sanitary Wastewater Sump (Tank 126).

PRS-218: Room T-15 Sanitary Wastewater Sump (Tank 127).

PRS-219: T Building, Stair 3 Cooling Water Sump (Tank 128).

PRS-220: Room T-78 Steam Condensate Sump (Tank 129).

PRS-221: T Building, Corridor 8 Sanitary Wastewater Sump (Tank 130).

PRS-222: Room T-78A Sanitary Wastewater Sump (Tank 131).

PRS-223: Room T-90 Cooling System Condensate Sump (Tank 132).

PRS-224: Room T-99 Sanitary Wastewater Sump (Tank 133).

PRS-225: Room T-23 Beta Wastewater Sump (Tank 227).

PRS-226: Room T-3 Floor Drain Sump (Tank 228).

PRS-227: Room T-40 Alpha Wastewater Sump (Tank 229).

PRS-228: Room T-41 Alpha Wastewater Sump (Tank 230).

PRS-229: Room T-50 Alpha Wastewater Sump (Tank 231).

PRS-230: Room T-50 Alpha Wastewater Sump (Tank 232).

PRS-231: T Building, Corridor 8 Alpha Wastewater Sump (Tank 233).

PRS-232: T Building, Corridor 7 Alpha Wastewater Sump (Tank 234).

PRS-233: Room T-63 Alpha Wastewater Sump (Tank 235).

PRS-234: Building 58 Diesel Fuel Storage Tank (Tank 222).
This Potential Release Site (PRS) 234 is a former location of a 3,000 gallon unlined, steel tank that was used to supply diesel fuel to an emergency generator.

PRS-235: Area of Possible Elevated Thorium Activity.
This plot of soil (25000 ft^2) was identified as an area of possible elevated thorium activity as a result of the 1983 Radiological Site Survey.

PRS-236: Site Survey Project Potential Hot Spot Location S0166.

Potential Release Site (PRS) 236 was identified after 34.5 pCi/g of plutonium-238 was detected in a surface sample, location S0166, collected from the dock area on the southwest corner of SW Building in 1983-84.

PRS-237: Site Survey Project Potential Hot Spot Location S0175.
Potential Release Site (PRS) 237 became a PRS due to the elevated detections of cesium-137 and cobalt-60 found during the Site Survey Project. PRS 237 is located approximately 100 feet northwest of I Building at the edge of the road.

PRS-238: Site Survey Project Potential Hot Spot Location S1092.

PRS-239: Site Survey Project Potential Hot Spot Location S0208.
This site was identified as a Potential Release Site (PRS) due to detectable plutonium-238 levels at surface soil samples.

PRS-240: Site Survey Project Potential Hot Spot Location S0472.

PRS-243: VOC Potential Hot Spot Location 1064.
The soils location was identified as a Potential Release Site (PRS) because of the detection of toluene during the Mound Reconnaissance Sampling soil gas survey.

PRS-244: VOC Potential Hot Spot Locations 1076, 1077, 1079, and 1080.
Potential Release Site (PRS) 244 was designated as a PRS because of the detection of volatile organic compounds (VOCs) in four sampling locations surrounding the Mound Plant road located west of B Building and OSW Building during the 1992 Soil Gas Survey. The contaminants of concern were toluene and trichloroethane. Both were below their respective guideline criteria. Core Team decided that PRS 244 requires No Further Assessment.

PRS-245: VOC Potential Hot Spot Location 1085.
This soils location was identified as a Potential Release Site (PRS) because of the detection of Volatile Organic Compounds (VOCs) during the Mound Reconnaissance Sampling soil gas survey.

PRS-246: VOC Potential Hot Spot Locations 1117 and 1118.
Potential Release Site (PRS) 246 was designated as a PRS due to the detection of trichloroethene (TCE and tetrachloroethene (PCE) during the 1993 Soil Gas Survey.

PRS-247: VOC Potential Hot Spot Location 1129.
This Potential Release Site (PRS) was created due to quantitative soil gas volatile organic compound (VOC) detection.

PRS-248: HH Building Stack.

PRS-249 SW Building Stack (NCDPF).

PRS-250: SW Building Stack (SW1C).

PRS-251: SW Building Stack (HEFS).

PRS-252: B Building Stack.

PRS-253: T Building WEST Stack.

PRS-254: T Building EAST Stack.

PRS-255: WD Building Stack (ALR).

PRS-256: WD Building Stack (AHR).

PRS-257: WD Building Stack (SS).

PRS-282: Spoils Disposal Area/Construction Spoils Area.

PRS-300: Area 19, Underground Waste Transfer Line.
This PRS was identified based on the fact that a pair of lines (waste transfer system) had been installed to transfer plutonium-238 contaminated waste solutions from SM Building to WD Building. The PRS consists of the WTS lines and the soil surrounding them from the SM area to the WD Building, a distance of approximately 2,600 feet.

PRS-327: R-111 Calorimetry Bath (Tank 255).

PRS-328: R-111 Calorimetry Bath (Tank 266).

PRS-329: Building 62 Hot Waste Sump (Tank 258).

PRS-337: Building H Condensate Sump (Tank 268).

PRS-339: T-44 Wastewater Sump (Tank 250).

PRS-340: T-16b Wastewater Sump (Tank 251).

PRS-341: T-90 Condensate Sump (Tank 269).

PRS-342: T-1 Hot Side Fire Water Tank (Tank 271).

PRS-343: T-20 Fire Water Sump (Tank 272).

PRS-344: T-37 Fire Water Sump (Tank 273).

PRS-345: Former Equipment Storage Area (see related site 16).
The area became a Potential Release Site (PRS) because it was used by contractors in the 1980s as an equipment yard and staging area. The area was associated with Area C Lithium Burn Area and the Past Hazardous Waste Storage Facility in the OU9 Site Scoping Report.

PRS-347, 348, 355 and 370: Elevated Soil Gas Locations.
PRSs 346, 347, 348, 355 and 370 were soil Potential Release Sites (PRSs) located in the southern sector of the original Mound Plant.

PRS-351, 352, 353, 360, 361, 362, 385, 386, and 387: Elevated Soil Gas Location.
PRSs 351, 352, 353, 357, 359, 360, 361, 362, 385, 386, and 387 were located in the western sector of the original Mound Plant.

PRS-356: Elevated Soil Gas Location.

PRS-363: Elevated Soil Gas Location. PRS 363 was an isolated Pu-238 hot spot identified during the site survey for the OU5, Non-AOC investigation in June 1994 – October 1994). No radioactive or hazardous waste generating processes were known to have occurred at the location of PRS 363. Core Team decided that PRS 363 requires No Further Assessment.

PRS-366: PRS 366 is a soil Potential Release Site (PRS) located in the western sector of the original Mound Plant. This soil location was identified as a PRS due to qualitative hydrocarbon detections found during the PETREX soil gas portion of the OU5, Non-AOC investigation. Core Team decided that PRS 366 requires No Further Assessment.

PRS-367: Elevated Soil Gas Location. PRS 367 is a soil Potential Release Site (PRS) located in the western sector of the original Mound Plant. This soil location was identified as a PRS due to qualitative hydrocarbon detections found during the PETREX soil gas portion of the OU5, Non-AOC investigation. Core Team decided that PRS 367 requires No Further Assessment.

PRS-368: Elevated Soil Gas Location.

PRS-405: (North of Bldg. 23) Oil and PCB Potential in Soil. Potential Release Site (PRS) 405 is a soil area located approximately 5 feet north of Building 23 (Waste Management Facility) at the east end of that building. PRS 405 was identified during construction activities in June 1994 when an oily substance was discovered.

PRS-408: Prism Separator Oil Leak.

PRS 408 is a chemical (Shell Rotella 10W lubricating oil) contamination soils area located in the "Prism" nitrogen production membrane system, which supplied house nitrogen to R and SW buildings.

PRS-411: Soil Contamination – Asphalt Roadway.
Potential Release Site (PRS) 411 was identified as a PRS site due to elevated FIDLER readings that were discovered during a Health Physics Survey.

PRS-413: Soil Contamination – creosote.
PRS 413 is a chemically contaminated soil location situated in the vicinity of the old Sanitary Disposal (SD) facility. The SD facility, now removed, was located on the southwest side of the Mound Plant Main Hill, approximately northwest of, and on terrain elevated above, the Plant Waste Disposal (WD) Building.

PRS-415: Soil Contamination – Radiological.
Potential Release Site (PRS) 415 was established during the binning process for DS Building. A data review of soils areas around DS Building identified soil sampling location ID SCR307 with values of Plutonium-238 and Thorium-232 above guideline criteria.

PRS-417: Soil Contamination-High Soil Gas Near Well 0312.

PRS-423, 424, 425, 426, 427 and 428: Hot Waste Line – Segments 1A, 1B, 2, 5, 6, and 7. PRSs 423, 424, 425, 426, 427 and 428 were identified because the underground line segments carried radioactively contaminated effluent from H Building operations to the Waste Disposal Building (WD).

PRS-429, 430, 431, 432, 433, 434, 435, and 436: Hot Waste Line – Segments 9a, 10, 11, 12, 13a, 13b, 14.
PRSs 429, 430, 431, 432, 433, 434, 435, and 436 were identified because the underground line segments carried radioactively contaminated effluent from T Building operations to the Waste Disposal Building (WD).

PRS-437, 438, and 439: Hot Waste Line – Segment 3, 4, 4a. PRS 437, 438 and 439 were identified because the underground line segments carried radioactively contaminated effluent from R and SW Building operations to the Waste Disposal Building (WD).

PRS-440: Hot Waste Line – Segment 8. PRS 440 was identified because the underground line segment carried radioactively contaminated effluent from SW Building operations to the Waste Disposal Building (WD).

PRS-442: PRS 442 is the subsurface area located below the asphalt-lined pond (PRS 68). PRS 442 was identified as a PRS due to the evidence of backfill within the footprint of the pond prior to its construction.

APPENDIX F

Listing of All Detected Analytes

Appendix F:Analytes Detected in Surface and Subsurface Soil for the Construction Worker Scenario

Analyte (units)	CAS Number	Number of Detections	Minimum Detect	Maximum Detect	Distribution	Results Greater than Detection Limit	% Results Greater than Detection Limit	95% UCL of Mean	Exposure Concentration	Detection in Greater than 5%
BTEX Compounds										
Benzene (UG/KG)	71-43-2	0			O	0/ 15	0.0			NO
Ethylbenzene (UG/KG)	100-41-4	0			O	0/ 15	0.0			NO
Toluene (UG/KG)	108-88-3	0			O	0/ 15	0.0			NO
Xylenes, Total (UG/KG)	1330-20-7	0			O	0/ 15	0.0			NO
Explosives										
1,3,5-Trinitrobenzene (UG/KG)	99-35-4	0			O	0/ 81	0.0			NO
1,3-Dinitrobenzene (UG/KG)	99-65-0	0			O	0/ 81	0.0			NO
2,4,6-Trinitrotoluene (UG/KG)	118-96-7	1	1.1E+02	1.1E+02	D	1/ 91	1.1	6.3E+02	1.1E+02	NO
2,4-Dinitrotoluene (UG/KG)	121-14-2	0			O	0/ 75	0.0			NO
2,6-Dinitrotoluene (UG/KG)	606-20-2	0			O	0/ 32	0.0			NO
2-Amino-4,6-Dinitrotoluene (UG/KG)	35572-78-2	0			O	0/ 61	0.0			NO
4-Amino-2,6-Dinitrotoluene (UG/KG)	1946-51-0	0			O	0/ 19	0.0			NO
HMX (UG/KG)	2691-41-0	0			O	0/ 98	0.0			NO
Nitrobenzene (UG/KG)	98-95-3	1	3.8E+02	3.8E+02	D	1/ 32	3.1	4.7E+02	3.8E+02	NO
Nitroglycerin (UG/KG)	55-63-0	0			O	0/ 76	0.0			NO
PETN (UG/KG)	78-11-5	0			O	0/ 99	0.0			NO
RDX (UG/KG)	121-82-4	0			O	0/ 99	0.0			NO
Tetryl (UG/KG)	479-45-8	0			O	0/ 71	0.0			NO
Metals										
Aluminum (UG/KG)	7429-90-5	145	5.9E+05	2.3E+07	N	145/ 146	99.3	1.5E+07	1.5E+07	YES
Antimony (UG/KG)	7440-36-0	64	2.1E+02	4.5E+04	D	64/ 209	30.6	8.5E+03	8.5E+03	YES
Arsenic (UG/KG)	7440-38-2	137	4.9E+02	2.0E+04	X	137/ 143	95.8	8.2E+03	8.2E+03	YES
Barium (UG/KG)	7440-39-3	226	4.4E+03	6.0E+05	X	226/ 227	99.6	1.0E+05	1.0E+05	YES
Beryllium (UG/KG)	7440-41-7	220	5.0E+01	3.6E+03	X	220/ 226	97.3	1.1E+03	1.1E+03	YES
Bismuth (UG/KG)	7440-69-9	33	8.2E+02	7.3E+04	X	33/ 59	55.9	1.3E+05	7.3E+04	YES
Cadmium (UG/KG)	7440-43-9	69	2.5E+02	1.2E+04	D	69/ 227	30.4	1.5E+03	1.5E+03	YES
Calcium (UG/KG)	7440-70-2	145	1.4E+06	3.4E+08	X	145/ 146	99.3	1.5E+08	1.5E+08	YES
Chromium (UG/KG)	7440-47-3	226	1.1E+03	3.7E+04	X	226/ 227	99.6	1.7E+04	1.7E+04	YES
Cobalt (UG/KG)	7440-48-4	145	7.9E+02	2.5E+04	X	145/ 146	99.3	1.3E+04	1.3E+04	YES
Copper (UG/KG)	7440-50-8	143	1.8E+03	1.1E+06	X	143/ 146	97.9	2.2E+04	2.2E+04	YES
Cyanide (UG/KG)	57-12-5	35	1.0E+02	8.9E+03	D	35/ 162	21.6	5.8E+02	5.8E+02	YES
Iron (UG/KG)	7439-89-6	145	2.3E+04	4.3E+07	N	145/ 146	99.3	3.1E+07	3.1E+07	YES
Lead (UG/KG)	7439-92-1	242	1.6E+03	2.2E+05	X	242/ 256	94.5	1.5E+04	1.5E+04	YES
Lithium (UG/KG)	7439-93-2	53	2.3E+03	3.4E+04	N	53/ 55	96.4	1.8E+04	1.8E+04	YES

Appendix F:Analytes Detected in Surface and Subsurface Soil for the Construction Worker Scenario

Analyte (units)	CAS Number	Number of Detections	Minimum Detect	Maximum Detect	Distribution	Results Greater than Detection Limit	% Results Greater than Detection Limit	95% UCL of Mean	Exposure Concentration	Detection in Greater than 5%
Magnesium (UG/KG)	7439-95-4	145	1.2E+04	1.2E+08	X	145/ 146	99.3	2.9E+07	2.9E+07	YES
Manganese (UG/KG)	7439-96-5	137	6.5E+04	8.2E+06	X	137/ 138	99.3	6.8E+05	6.8E+05	YES
Mercury (UG/KG)	7439-97-6	61	3.0E+01	1.4E+03	D	61/ 139	43.9	1.2E+02	1.2E+02	YES
Molybdenum (UG/KG)	7439-98-7	49	2.2E+02	9.7E+03	L	49/ 54	90.7	4.0E+03	4.0E+03	YES
Nickel (UG/KG)	7440-02-0	224	2.3E+03	2.5E+05	X	224/ 227	98.7	2.2E+04	2.2E+04	YES
Potassium (UG/KG)	7440-09-7	142	3.1E+05	3.3E+08	X	142/ 147	96.6	1.9E+06	1.9E+06	YES
Selenium (UG/KG)	7782-49-2	19	4.6E+02	2.3E+03	D	19/ 131	14.5	9.6E+02	9.6E+02	YES
Silver (UG/KG)	7440-22-4	65	1.1E+02	2.1E+04	D	65/ 227	28.6	2.4E+03	2.4E+03	YES
Sodium (UG/KG)	7440-23-5	136	4.2E+04	3.5E+06	X	136/ 146	93.2	1.1E+06	1.1E+06	YES
Thallium (UG/KG)	7440-28-0	29	2.0E+02	3.5E+03	D	29/ 142	20.4	1.1E+03	1.1E+03	YES
Tin (UG/KG)	7440-31-5	22	6.7E+02	3.3E+03	D	22/ 54	40.7	1.2E+04	3.3E+03	YES
Vanadium (UG/KG)	7440-62-2	145	1.7E+03	4.3E+04	X	145/ 146	99.3	2.5E+04	2.5E+04	YES
Zinc (UG/KG)	7440-66-6	145	5.5E+03	4.6E+05	X	145/ 146	99.3	9.3E+04	9.3E+04	YES
Pesticides and/or PCBs										
4,4'-DDD (UG/KG)	72-54-8	0			O	0/ 122	0.0			NO
4,4'-DDE (UG/KG)	72-55-9	7	2.8E-01	1.8E+00	D	7/ 121	5.8	3.3E+00	1.8E+00	YES
4,4'-DDT (UG/KG)	50-29-3	0			O	0/ 122	0.0			NO
Aldrin (UG/KG)	309-00-2	1	5.4E-02	5.4E-02	D	1/ 122	0.8	2.2E+00	5.4E-02	NO
Alpha Chlordane (UG/KG)	5103-71-9	0			O	0/ 99	0.0			NO
Alpha-BHC (UG/KG)	319-84-6	0			O	0/ 122	0.0			NO
Aroclor-1016 (UG/KG)	12674-11-2	0			O	0/ 151	0.0			NO
Aroclor-1221 (UG/KG)	11104-28-2	0			O	0/ 151	0.0			NO
Aroclor-1232 (UG/KG)	11141-16-5	1	1.2E+02	1.2E+02	D	1/ 151	0.7	3.3E+01	3.3E+01	NO
Aroclor-1242 (UG/KG)	53469-21-9	1	1.2E+02	1.2E+02	D	1/ 151	0.7	3.3E+01	3.3E+01	NO
Aroclor-1248 (UG/KG)	12672-29-6	3	7.4E+01	9.1E+02	D	3/ 150	2.0	3.7E+01	3.7E+01	NO
Aroclor-1254 (UG/KG)	11097-69-1	1	2.2E+02	2.2E+02	D	1/ 151	0.7	5.8E+01	5.8E+01	NO
Aroclor-1260 (UG/KG)	11096-82-5	0			O	0/ 150	0.0			NO
Beta-BHC (UG/KG)	319-85-7	3	1.8E-01	1.2E+02	D	3/ 120	2.5	3.1E+00	3.1E+00	NO
Chlordane (UG/KG)	57-74-9	2	1.9E+01	9.8E+01	D	2/ 23	8.7	1.6E+01	1.6E+01	YES
Delta-BHC (UG/KG)	319-86-8	1	1.7E-01	1.7E-01	D	1/ 122	0.8	3.4E+00	1.7E-01	NO
Dieldrin (UG/KG)	60-57-1	3	5.2E-01	4.4E+00	D	3/ 122	2.5	3.1E+00	3.1E+00	NO
Endosulfan I (UG/KG)	959-98-8	0			O	0/ 122	0.0			NO
Endosulfan II (UG/KG)	33213-65-9	0			O	0/ 122	0.0			NO
Endosulfan Sulfate (UG/KG)	1031-07-8	0			O	0/ 122	0.0			NO
Endrin (UG/KG)	72-20-8	2	1.5E-01	2.3E+01	D	2/ 121	1.7	4.6E+00	4.6E+00	NO

Appendix F:Analytes Detected in Surface and Subsurface Soil for the Construction Worker Scenario

Analyte (units)	CAS Number	Number of Detections	Minimum Detect	Maximum Detect	Distribution	Results Greater than Detection Limit	% Results Greater than Detection Limit	95% UCL of Mean	Exposure Concentration	Detection in Greater than 5%
Endrin Aldehyde (UG/KG)	7421-93-4	0			O	0/ 108	0.0			NO
Endrin Ketone (UG/KG)	53494-70-5	2	5.2E-01	7.6E-01	D	2/ 122	1.6	1.3E+01	7.6E-01	NO
Gamma Chlordane (UG/KG)	5103-74-2	1	5.7E-02	5.7E-02	D	1/ 99	1.0	1.7E+01	5.7E-02	NO
Gamma-BHC (Lindane) (UG/KG)	58-89-9	0			O	0/ 122	0.0			NO
Heptachlor (UG/KG)	76-44-8	2	1.1E-01	1.3E-01	D	2/ 122	1.6	2.0E+00	1.3E-01	NO
Heptachlor Epoxide (UG/KG)	1024-57-3	2	1.1E-01	3.5E-01	D	2/ 122	1.6	1.3E+01	3.5E-01	NO
Methoxychlor (UG/KG)	72-43-5	0			O	0/ 122	0.0			NO
Toxaphene (UG/KG)	8001-35-2	0			O	0/ 122	0.0			NO
Phenols										
Phenolics (UG/KG)	64743-03-9	0			O	0/ 24	0.0			NO
Radiological										
Actinium-227 (PCI/G)	14952-40-0	37	5.0E-02	2.1E+00	D	37/ 282	13.1	3.0E-01	3.0E-01	YES
Actinium-228 (PCI/G)	14331-83-0	7	7.6E-01	1.4E+00	D	7/ 7	100.0	1.2E+00	1.4E+00	YES
Americium-241 (PCI/G)	14596-10-2	12	5.0E-02	3.8E+01	D	12/ 558	2.2	1.1E-01	1.1E-01	NO
Bismuth-207 (PCI/G)	13982-38-2	0			O	0/ 126	0.0			
Bismuth-210 (PCI/G)	14331-79-4	1	6.8E-02	6.8E-02	D	1/ 222	0.5	2.9E-02	2.9E-02	NO
Bismuth-210M (PCI/G)	BI-210M	3	1.4E-01	2.7E-01	D	3/ 84	3.6	5.5E-02	5.5E-02	NO
Bismuth-214 (PCI/G)	14733-03-0	10	7.0E-01	9.3E-01	N	10/ 10	100.0	8.6E-01	9.3E-01	YES
Cesium-137 (PCI/G)	10045-97-3	276	2.1E-02	1.6E+00	D	276/ 564	48.9	1.6E-01	1.6E-01	YES
Cobalt-60 (PCI/G)	10198-40-0	14	2.0E-02	5.0E-01	D	14/ 575	2.4	3.6E-02	3.6E-02	NO
Europium-152 (PCI/G)	14683-23-9	1	8.7E-02	8.7E-02	D	1/ 191	0.5	4.7E-02	4.7E-02	NO
Europium-154 (PCI/G)	15585-10-1	0			O	0/ 180	0.0			NO
Lead-210 (PCI/G)	14255-04-0	180	4.9E-01	3.7E+00	X	180/ 344	52.3	1.2E+00	1.2E+00	YES
Lead-212 (PCI/G)	15092-94-1	10	8.4E-01	1.2E+00	L	10/ 10	100.0	1.1E+00	1.2E+00	YES
Lead-214 (PCI/G)	15067-28-4	20	5.7E-01	1.1E+00	N	20/ 20	100.0	9.2E-01	9.2E-01	YES
Plutonium-238 (PCI/G)	13981-16-3	665	1.2E-02	4.0E+02	D	665/1545	43.0	2.6E+01	2.6E+01	YES
Plutonium-239 (PCI/G)	15117-48-3	83	3.5E-03	1.3E+00	X	83/ 90	92.2	6.9E-02	6.9E-02	YES
Plutonium-239/240 (PCI/G)	PU-239/240	79	3.7E-03	1.0E+00	D	79/ 254	31.1	4.4E-02	4.4E-02	YES
Plutonium-242 (PCI/G)	13982-10-0	0			O	0/ 5	0.0			NO
Potassium-40 (PCI/G)	13966-00-2	122	7.2E+00	3.7E+01	X	122/ 126	96.8	2.1E+01	2.1E+01	YES
Protactinium-231 (PCI/G)	14331-85-2	0			O	0/ 36	0.0			NO
Radium-224 (PCI/G)	13233-32-4	190	7.3E-02	6.3E+00	X	190/ 190	100.0	1.3E+00	1.3E+00	YES
Radium-226 (PCI/G)	13982-63-3	494	1.8E-01	3.7E+00	X	494/ 567	87.1	1.2E+00	1.2E+00	YES
Radium-228 (PCI/G)	15262-20-1	80	3.1E-01	2.0E+00	N	80/ 81	98.8	1.2E+00	1.2E+00	YES
Strontium-90 (PCI/G)	10098-97-2	0			O	0/ 21	0.0			NO

Appendix F:Analytes Detected in Surface and Subsurface Soil for the Construction Worker Scenario

Analyte (units)	CAS Number	Number of Detections	Minimum Detect	Maximum Detect	Distribution	Results Greater than Detection Limit	% Results Greater than Detection Limit	95% UCL of Mean	Exposure Concentration	Detection in Greater than 5%
Thallium-208 (PCI/G)	14913-50-9	10	1.6E-01	4.0E-01	N	10/ 10	100.0	3.8E-01	4.0E-01	YES
Thorium-227 (PCI/G)	15623-47-9	17	6.0E-02	4.4E-01	L	17/ 33	51.5	1.4E-01	1.4E-01	YES
Thorium-228 (PCI/G)	14274-82-9	342	3.7E-02	4.5E+00	X	342/ 384	89.1	1.6E+00	1.6E+00	YES
Thorium-229 (PCI/G)	15594-54-4	0			O	0/ 36	0.0			NO
Thorium-230 (PCI/G)	14269-63-7	340	1.0E-01	7.5E+00	X	340/ 595	57.1	2.8E+00	2.8E+00	YES
Thorium-232 (PCI/G)	7440-29-1	789	4.5E-02	8.0E+01	D	789/1805	43.7	8.3E-01	8.3E-01	YES
Tritium (PCI/G)	10028-17-8	1	1.4E+00	1.4E+00	D	1/ 21	4.8	2.0E+00	1.4E+00	NO
Uranium-234 (PCI/G)	13966-29-5	46	3.8E-01	1.6E+00	N	46/ 54	85.2	1.0E+00	1.0E+00	YES
Uranium-235 (PCI/G)	15117-96-1	28	2.7E-02	2.1E-01	D	28/ 77	36.4	1.9E-01	1.9E-01	YES
Uranium-235/236 (PCI/G)	U-235/236	0			O	0/ 2	0.0			NO
Uranium-238 (PCI/G)	7440-61-1	72	4.1E-01	2.0E+00	X	72/ 119	60.5	1.9E+00	1.9E+00	YES
Semi-Volatile Organics										
1,2,4-Trichlorobenzene (UG/KG)	120-82-1	0			O	0/ 159	0.0			NO
1,2-Dichlorobenzene (UG/KG)	95-50-1	0			O	0/ 159	0.0			NO
1,3-Dichlorobenzene (UG/KG)	541-73-1	0			O	0/ 159	0.0			NO
1,4-Dichlorobenzene (UG/KG)	106-46-7	0			O	0/ 159	0.0			NO
1-chloro-4-phenoxybenzene (UG/KG)	7005-72-3	0			O	0/ 159	0.0			NO
2,2'-oxybis(1-chloropropane) (UG/KG)	108-60-1	0			O	0/ 159	0.0			NO
2,4,5-Trichlorophenol (UG/KG)	95-95-4	0			O	0/ 159	0.0			NO
2,4,6-Trichlorophenol (UG/KG)	88-06-2	0			O	0/ 159	0.0			NO
2,4-Dichlorophenol (UG/KG)	120-83-2	0			O	0/ 159	0.0			NO
2,4-Dimethylphenol (UG/KG)	105-67-9	0			O	0/ 159	0.0			NO
2,4-Dinitrophenol (UG/KG)	51-28-5	0			O	0/ 159	0.0			NO
2,4-Dinitrotoluene (UG/KG)	121-14-2	0			O	0/ 91	0.0			NO
2,6-Dinitrotoluene (UG/KG)	606-20-2	0			O	0/ 134	0.0			NO
2-Benzyl-4-Chlorophenol (UG/KG)	120-32-1	0			O	0/ 30	0.0			NO
2-Chloronaphthalene (UG/KG)	91-58-7	0			O	0/ 174	0.0			NO
2-Chlorophenol (UG/KG)	95-57-8	0			O	0/ 159	0.0			NO
2-Methylnaphthalene (UG/KG)	91-57-6	3	5.4E+01	9.9E+01	D	3/ 174	1.7	2.8E+02	9.9E+01	NO
2-Methylphenol (UG/KG)	95-48-7	0			O	0/ 159	0.0			NO
2-Nitroaniline (UG/KG)	88-74-4	0			O	0/ 159	0.0			NO
2-Nitrophenol (UG/KG)	88-75-5	0			O	0/ 159	0.0			NO
3,3'-Dichlorobenzidine (UG/KG)	91-94-1	0			O	0/ 159	0.0			NO
3-Nitroaniline (UG/KG)	99-09-2	0			O	0/ 157	0.0			NO
4,6-Dinitro-o-Cresol (UG/KG)	534-52-1	0			O	0/ 159	0.0			NO

Appendix F:Analytes Detected in Surface and Subsurface Soil for the Construction Worker Scenario

Analyte (units)	CAS Number	Number of Detections	Minimum Detect	Maximum Detect	Distribution	Results Greater than Detection Limit	% Results Greater than Detection Limit	95% UCL of Mean	Exposure Concentration	Detection in Greater than 5%
4-Bromophenyl-phenyl Ether (UG/KG)	101-55-3	0			O	0/ 159	0.0			NO
4-Chloro-3-methylphenol (UG/KG)	59-50-7	0			O	0/ 159	0.0			NO
4-Chloroaniline (UG/KG)	106-47-8	0			O	0/ 159	0.0			NO
4-Methylphenol (UG/KG)	106-44-5	1	4.1E+02	4.1E+02	D	1/ 159	0.6	2.8E+02	2.8E+02	NO
4-Nitroaniline (UG/KG)	100-01-6	0			O	0/ 159	0.0			NO
4-Nitrophenol (UG/KG)	100-02-7	1	1.8E+02	1.8E+02	D	1/ 159	0.6	1.2E+03	1.8E+02	NO
Acenaphthene (UG/KG)	83-32-9	6	2.7E+01	4.3E+02	D	6/ 174	3.4	2.9E+02	2.9E+02	NO
Acenaphthylene (UG/KG)	208-96-8	0			O	0/ 174	0.0			NO
Anthracene (UG/KG)	120-12-7	13	2.2E+01	2.8E+03	D	13/ 174	7.5	3.1E+02	3.1E+02	YES
Benzidine (UG/KG)	92-87-5	0			O	0/ 21	0.0			NO
Benzo(a)anthracene (UG/KG)	56-55-3	31	2.3E+01	4.2E+03	D	31/ 174	17.8	3.2E+02	3.2E+02	YES
Benzo(a)pyrene (UG/KG)	50-32-8	29	2.3E+01	3.6E+03	D	29/ 174	16.7	3.2E+02	3.2E+02	YES
Benzo(b)fluoranthene (UG/KG)	205-99-2	35	2.5E+01	2.8E+03	D	35/ 174	20.1	3.2E+02	3.2E+02	YES
Benzo(g,h,i)perylene (UG/KG)	191-24-2	16	2.7E+01	2.1E+03	D	16/ 174	9.2	3.0E+02	3.0E+02	YES
Benzo(k)fluoranthene (UG/KG)	207-08-9	27	2.1E+01	3.4E+03	D	27/ 174	15.5	3.2E+02	3.2E+02	YES
Benzoic Acid (UG/KG)	65-85-0	5	7.8E+01	9.5E+01	D	5/ 139	3.6	1.5E+03	9.5E+01	NO
Benzyl Alcohol (UG/KG)	100-51-6	0			O	0/ 139	0.0			NO
Bis(2-chloroethoxy)methane (UG/KG)	111-91-1	0			O	0/ 159	0.0			NO
Bis(2-chloroethyl)ether (UG/KG)	111-44-4	0			O	0/ 159	0.0			NO
Bis(2-ethylhexyl)phthalate (UG/KG)	117-81-7	59	1.9E+01	6.5E+03	D	59/ 159	37.1	3.3E+02	3.3E+02	YES
Butyl Benzyl Phthalate (UG/KG)	85-68-7	3	4.8E+01	6.4E+01	D	3/ 159	1.9	2.8E+02	6.4E+01	NO
Carbazole (UG/KG)	86-74-8	2	1.5E+02	1.7E+02	D	2/ 89	2.2	2.0E+02	1.7E+02	NO
Chrysene (UG/KG)	218-01-9	30	2.0E+01	1.7E+03	D	30/ 159	18.9	3.0E+02	3.0E+02	YES
Di-n-butyl Phthalate (UG/KG)	84-74-2	61	2.1E+01	2.0E+03	D	61/ 240	25.4	3.1E+02	3.1E+02	YES
Di-n-octyl Phthalate (UG/KG)	117-84-0	1	4.0E+02	4.0E+02	D	1/ 159	0.6	2.8E+02	2.8E+02	NO
Dibenz(a,h)anthracene (UG/KG)	53-70-3	6	7.1E+01	8.0E+02	D	6/ 174	3.4	2.8E+02	2.8E+02	NO
Dibenzofuran (UG/KG)	132-64-9	6	3.2E+01	5.8E+02	D	6/ 159	3.8	2.7E+02	2.7E+02	NO
Diethyl Phthalate (UG/KG)	84-66-2	6	3.9E+01	1.1E+02	D	6/ 159	3.8	2.8E+02	1.1E+02	NO
Dimethyl Phthalate (UG/KG)	131-11-3	0			O	0/ 159	0.0			NO
Diphenylamine (UG/KG)	122-39-4	0			O	0/ 81	0.0			NO
Fluoranthene (UG/KG)	206-44-0	48	2.3E+01	1.1E+04	D	48/ 174	27.6	3.7E+02	3.7E+02	YES
Fluorene (UG/KG)	86-73-7	7	3.8E+01	1.1E+03	D	7/ 174	4.0	2.9E+02	2.9E+02	NO
Hexachlorobenzene (UG/KG)	118-74-1	0			O	0/ 159	0.0			NO
Hexachlorobutadiene (UG/KG)	87-68-3	0			O	0/ 159	0.0			NO
Hexachlorocyclopentadiene (UG/KG)	77-47-4	0			O	0/ 159	0.0			NO

Appendix F:Analytes Detected in Surface and Subsurface Soil for the Construction Worker Scenario

Analyte (units)	CAS Number	Number of Detections	Minimum Detect	Maximum Detect	Distribution	Results Greater than Detection Limit	% Results Greater than Detection Limit	95% UCL of Mean	Exposure Concentration	Detection in Greater than 5%
Hexachloroethane (UG/KG)	67-72-1	0			O	0/ 159	0.0			NO
Indeno(1,2,3-cd)pyrene (UG/KG)	193-39-5	18	2.5E+01	1.9E+03	D	18/ 174	10.3	3.0E+02	3.0E+02	YES
Isophorone (UG/KG)	78-59-1	0			O	0/ 159	0.0			NO
N-Nitroso-di-n-propylamine (UG/KG)	621-64-7	0			O	0/ 159	0.0			NO
N-Nitrosodiphenylamine (UG/KG)	86-30-6	8	5.7E+01	2.1E+02	D	8/ 159	5.0	2.7E+02	2.1E+02	YES
Naphthalene (UG/KG)	91-20-3	5	2.6E+01	4.1E+02	D	5/ 171	2.9	2.9E+02	2.9E+02	NO
Nitrobenzene (UG/KG)	98-95-3	0			O	0/ 134	0.0			NO
Pentachlorophenol (UG/KG)	87-86-5	0			O	0/ 159	0.0			NO
Phenanthrene (UG/KG)	85-01-8	32	2.7E+01	1.1E+04	D	32/ 174	18.4	3.5E+02	3.5E+02	YES
Phenol (UG/KG)	108-95-2	2	8.5E+01	3.2E+02	D	2/ 159	1.3	2.8E+02	2.8E+02	NO
Pyrene (UG/KG)	129-00-0	45	2.6E+01	9.7E+03	D	45/ 174	25.9	3.6E+02	3.6E+02	YES
Volatile Organics										
1,1,1,2-Tetrachloroethane (UG/KG)	630-20-6	0			O	0/ 23	0.0			NO
1,1,1-Trichloroethane (UG/KG)	71-55-6	4	1.0E+00	8.0E+00	D	4/ 200	2.0	3.4E+00	3.4E+00	NO
1,1,2,2-Tetrachloroethane (UG/KG)	79-34-5	0			O	0/ 200	0.0			NO
1,1,2-Trichloroethane (UG/KG)	79-00-5	0			O	0/ 200	0.0			NO
1,1-Dichloroethane (UG/KG)	75-34-3	1	3.0E+00	3.0E+00	D	1/ 200	0.5	3.4E+00	3.0E+00	NO
1,1-Dichloroethene (UG/KG)	75-35-4	0			O	0/ 200	0.0			NO
1,1-Dichloropropene (UG/KG)	563-58-6	0			O	0/ 23	0.0			NO
1,2,3-Trichlorobenzene (UG/KG)	87-61-6	0			O	0/ 23	0.0			NO
1,2,3-Trichloropropane (UG/KG)	96-18-4	0			O	0/ 23	0.0			NO
1,2,4-Trichlorobenzene (UG/KG)	120-82-1	0			O	0/ 3	0.0			NO
1,2,4-Trimethylbenzene (UG/KG)	95-63-6	0			O	0/ 23	0.0			NO
1,2-Dibromo-3-Chloropropane (UG/KG)	96-12-8	0			O	0/ 23	0.0			NO
1,2-Dichlorobenzene (UG/KG)	95-50-1	0			O	0/ 3	0.0			NO
1,2-Dichloroethane (UG/KG)	107-06-2	0			O	0/ 200	0.0			NO
1,2-Dichloroethene (UG/KG)	540-59-0	5	2.0E+00	2.1E+02	D	5/ 177	2.8	4.1E+00	4.1E+00	NO
1,2-Dichloropropane (UG/KG)	78-87-5	0			O	0/ 200	0.0			NO
1,2-Diethylbenzene (UG/KG)	135-01-3	0			O	0/ 31	0.0			NO
1,2-cis-Dichloroethene (UG/KG)	156-59-2	0			O	0/ 34	0.0			NO
1,2-trans-Dichloroethene (UG/KG)	156-60-5	0			O	0/ 34	0.0			NO
1,3,5-Trimethylbenzene (UG/KG)	108-67-8	0			O	0/ 23	0.0			NO
1,3-Dichlorobenzene (UG/KG)	541-73-1	0			O	0/ 3	0.0			NO
1,3-Dichloropropane (UG/KG)	142-28-9	0			O	0/ 23	0.0			NO
1,3-cis-Dichloropropene (UG/KG)	10061-01-5	0			O	0/ 200	0.0			NO

Appendix F:Analytes Detected in Surface and Subsurface Soil for the Construction Worker Scenario

Analyte (units)	CAS Number	Number of Detections	Minimum Detect	Maximum Detect	Distribution	Results Greater than Detection Limit	% Results Greater than Detection Limit	95% UCL of Mean	Exposure Concentration	Detection in Greater than 5%
1,3-trans-Dichloropropene (UG/KG)	10061-02-6	0			O	0/ 200	0.0			NO
1,4-Dichlorobenzene (UG/KG)	106-46-7	0			O	0/ 3	0.0			NO
2,2-Dichloropropane (UG/KG)	594-20-7	0			O	0/ 23	0.0			NO
2-Butanone (UG/KG)	78-93-3	18	1.0E+00	3.1E+01	D	18/ 177	10.2	6.8E+00	6.8E+00	YES
2-Chlorotoluene (UG/KG)	95-49-8	0			O	0/ 23	0.0			NO
2-Hexanone (UG/KG)	591-78-6	0			O	0/ 177	0.0			NO
4-Chlorotoluene (UG/KG)	106-43-4	0			O	0/ 23	0.0			NO
4-Methyl-2-pentanone (UG/KG)	108-10-1	9	1.0E+00	7.0E+00	D	9/ 177	5.1	6.0E+00	6.0E+00	YES
Acetone (UG/KG)	67-64-1	48	4.0E+00	1.7E+02	D	48/ 177	27.1	1.4E+01	1.4E+01	YES
Acetonitrile (UG/KG)	75-05-8	0			O	0/ 31	0.0			NO
Acrylonitrile (UG/KG)	107-13-1	0			O	0/ 31	0.0			NO
Benzene (UG/KG)	71-43-2	2	2.0E+00	5.0E+00	D	2/ 200	1.0	3.4E+00	3.4E+00	NO
Bromochloromethane (UG/KG)	74-97-5	0			O	0/ 23	0.0			NO
Bromodichloromethane (UG/KG)	75-27-4	1	5.0E+00	5.0E+00	D	1/ 200	0.5	3.4E+00	3.4E+00	NO
Bromoform (UG/KG)	75-25-2	0			O	0/ 200	0.0			NO
Bromomethane (UG/KG)	74-83-9	0			O	0/ 200	0.0			NO
Carbon Disulfide (UG/KG)	75-15-0	4	1.0E+00	3.0E+00	D	4/ 177	2.3	3.4E+00	3.0E+00	NO
Carbon Tetrachloride (UG/KG)	56-23-5	0			O	0/ 200	0.0			NO
Chlorobenzene (UG/KG)	108-90-7	0			O	0/ 200	0.0			NO
Chloroethane (UG/KG)	75-00-3	0			O	0/ 200	0.0			NO
Chloroform (Trichloromethane) (UG/KG)	67-66-3	1	2.4E+01	2.4E+01	D	1/ 200	0.5	3.4E+00	3.4E+00	NO
Chloromethane (UG/KG)	74-87-3	2	1.0E+00	4.0E+00	D	2/ 200	1.0	5.7E+00	4.0E+00	NO
Dibromochloromethane (UG/KG)	124-48-1	1	1.0E+00	1.0E+00	D	1/ 200	0.5	3.4E+00	1.0E+00	NO
Dibromomethane (UG/KG)	74-95-3	0			O	0/ 23	0.0			NO
Dichlorodifluoromethane (UG/KG)	75-71-8	0			O	0/ 23	0.0			NO
Dichloromethane (Methylene Chloride) (UG/KG)	75-09-2	96	3.0E+00	6.8E+01	D	96/ 200	48.0	1.0E+01	1.0E+01	YES
Ethylbenzene (UG/KG)	100-41-4	9	1.0E+00	1.1E+01	D	9/ 200	4.5	3.4E+00	3.4E+00	NO
Ethylene Dibromide (1,2-Dibromoethane) (UG/KG	106-93-4	0			O	0/ 23	0.0			NO
FREON-113 (UG/KG)	76-13-1	0			O	0/ 39	0.0			NO
Hexachlorobutadiene (UG/KG)	87-68-3	0			O	0/ 3	0.0			NO
Hexane (UG/KG)	110-54-3	0			O	0/ 39	0.0			NO
Iodomethane (UG/KG)	74-88-4	0			O	0/ 31	0.0			NO
Isopropyl Benzene (UG/KG)	98-82-8	0			O	0/ 23	0.0			NO

Appendix F:Analytes Detected in Surface and Subsurface Soil for the Construction Worker Scenario

Analyte (units)	CAS Number	Number of Detections	Minimum Detect	Maximum Detect	Distribution	Results Greater than Detection Limit	% Results Greater than Detection Limit	95% UCL of Mean	Exposure Concentration	Detection in Greater than 5%
Monobromobenzene (Phenyl bromide) (UG/KG)	108-86-1	0			O	0/ 23	0.0			NO
Naphthalene (UG/KG)	91-20-3	3	1.0E+00	6.0E+00	D	3/ 6	50.0	1.0E+01	6.0E+00	YES
Styrene (UG/KG)	100-42-5	0			O	0/ 200	0.0			NO
Tetrachloroethene (UG/KG)	127-18-4	13	2.0E+00	4.1E+01	D	13/ 200	6.5	3.9E+00	3.9E+00	YES
Toluene (UG/KG)	108-88-3	35	1.0E+00	5.1E+01	D	35/ 200	17.5	3.8E+00	3.8E+00	YES
Trichloroethylene (TCE) (UG/KG)	79-01-6	7	3.0E+00	7.4E+01	D	7/ 200	3.5	3.8E+00	3.8E+00	NO
Trichlorofluoromethane (UG/KG)	75-69-4	0			O	0/ 23	0.0			NO
Vinyl Acetate (UG/KG)	108-05-4	0			O	0/ 149	0.0			NO
Vinyl Chloride (UG/KG)	75-01-4	0			O	0/ 200	0.0			NO
Xylenes, Total (UG/KG)	1330-20-7	16	1.0E+00	3.9E+01	D	16/ 177	9.0	3.7E+00	3.7E+00	YES
m-Xylene (UG/KG)	108-38-3	0			O	0/ 11	0.0			NO
mp-Xylene (UG/KG)	mp-Xylene	23	5.0E+00	6.0E+00	X	23/ 23	100.0	6.0E+00	6.0E+00	YES
n-Butylbenzene (UG/KG)	104-51-8	0			O	0/ 23	0.0			NO
n-propylbenzene (UG/KG)	103-65-1	0			O	0/ 23	0.0			NO
o-Xylene (UG/KG)	95-47-6	0			O	0/ 34	0.0			NO
p-Isopropyltoluene (UG/KG)	99-87-6	0			O	0/ 23	0.0			NO
sec-Butylbenzene (UG/KG)	135-98-8	0			O	0/ 23	0.0			NO
tert-Butylbenzene (UG/KG)	98-06-6	0			O	0/ 23	0.0			NO