



Department of Energy  
Albuquerque Operations Office  
Los Alamos Area Office  
Los Alamos, New Mexico 87544

FEB 24 1999



Mr. Peter Maggiore, Secretary  
New Mexico Environment Department  
1190 St. Francis Drive  
P. O. Box 26110  
Santa Fe, NM 87502

Dear Mr. Maggiore:

Enclosed is a copy of Los Alamos National Laboratory's (LANL) *Public Information Draft Environmental Restoration Report to Support Land Conveyance and Transfer Under Public Law 105-119*. The Department of Energy (DOE) prepared this document, as directed by Congress (Public Law 105-119), to examine the environmental restoration or remediation required with respect to the ten parcels of land identified for potential conveyance and transfer at LANL. These ten parcels are comprised of 4,646 acres. Pursuant to Public Law 105-119, these ten parcels have been identified for conveyance and transfer to Los Alamos County or the Secretary of the Interior in trust for the Pueblo of San Ildefonso.

DOE will hold public information sessions on this report simultaneously and at the same locations with the public hearings on the *Draft Environmental Impact Statement for the Conveyance and Transfer of Certain Land Tracts Administered by the Department of Energy and Located at Los Alamos National Laboratory, Los Alamos and Santa Fe Counties, New Mexico (CT EIS)*.

The public information sessions will be held in Pojoaque, New Mexico, on March 24, 1999, at the Cities of Gold Hotel from 2 p.m. to 5 p.m. and 6 p.m. to 9 p.m.; and in Los Alamos, New Mexico, on March 25, 1999, at Fuller Lodge from 2 p.m. to 5 p.m. and 6 p.m. to 9 p.m.

I look forward to your participation in this effort. If you have any questions or concerns about the meetings or the enclosed document, please feel free to contact Ted Taylor, DOE Program Manager for Environmental Restoration, at (505) 665-7203 or Paul Schumann, LANL Environmental Restoration Group Community Involvement and Outreach Manager, at (505) 667-5840.

Sincerely,

David A. Gurulé, P.E.  
Area Manager

LAAME:6TT-005

Enclosure

cc:  
See page 2



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General

**Environmental Restoration Report  
to Support Land Conveyance and Transfer  
under Public Law 105-119**

**Public Information Draft**



**Los Alamos**  
NATIONAL LABORATORY

LA-UR-99-796  
February 26, 1999

**ENVIRONMENTAL RESTORATION REPORT**

*To Support*

**LAND CONVEYANCE AND TRANSFER**

*Under Public Law 105-119*

**LOS ALAMOS NATIONAL LABORATORY**

**Public Information Draft**

**February 26, 1999**

## Executive Summary

On November 26, 1997, Congress enacted legislation that required the Secretary of Energy to identify land at Los Alamos National Laboratory (LANL) to be considered for conveyance and transfer to Los Alamos County or to the Secretary of the Interior, in trust for the Pueblo of San Ildefonso (Public Law 105-119, the Departments of Commerce, Justice, and State, the Judiciary, and Related Agencies Appropriations Act, 1998). The Department of Energy (DOE) tentatively identified nine, later reconfigured to ten<sup>1</sup> land parcels for such transfer in the "Land Transfer Report to Congress under Public Law 105-119, A Preliminary Identification of Parcels of Land in Los Alamos, New Mexico for Conveyance or Transfer" (April, 1998). Public Law 105-119 also directed the DOE to identify any environmental restoration or remediation that would be necessary within any of these tracts prior to conveyance and transfer. This report fulfills the requirement to provide such information. It is intended to provide Congress with the information it needs to make decisions on supporting the level of environmental restoration that DOE believes is required to convey or transfer each parcel.

Public Law 105-119 states that the conveyed lands "...shall be used for historic, cultural, or environmental preservation purposes, economic diversification purposes, or community self-sufficiency purposes." Both Los Alamos County and San Ildefonso Pueblo submitted preliminary statements of interest in some or all of the ten parcels to DOE in June 1998, and these submittals included preliminary proposed land uses for each parcel.<sup>2</sup> In general, both San Ildefonso Pueblo and Los Alamos County propose to use some of the parcels for commercial and industrial development to meet the goal of economic diversification; residential development to meet the goal of self-sufficiency; and cultural or environmental preservation to meet the goal of preservation. The uses proposed by the potential recipients of each parcel are not always the same.

There are 200 potential release sites (PRs) and 152 LANL numbered structures<sup>3</sup> located within the ten parcels tentatively identified by DOE for conveyance and transfer. Two of the parcels – Site 22 and the Manhattan Monument – have neither PRs nor structures associated with them and, consequently, the environmental restoration issues associated with them are minimal. At the other end of the spectrum, the TA 21 parcel contains 154 of the 200 PRs and 125 of the 152 structures. The environmental restoration issues associated with this parcel are the most complex, and will be the most costly, of all of the tentatively proposed land transfer parcels. Some of the other parcels, including the White Rock Y, the White Rock parcel, and the TA 74 parcel, are situated within one or more canyons drainage systems and could, potentially, be the recipients of contaminant migration from mesa top or up-canyon locations.

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<sup>1</sup> DOE tentatively identified nine parcels as candidates for land transfer in the April 1998 report referenced above. Today's report presents information on ten parcels. This apparent discrepancy is explained by the fact that Site 22 and the Manhattan Monument were originally combined and addressed as one parcel. In this report they are presented and addressed as individual parcels, to be consistent with DOE's draft Conveyance & Transfer Environmental Impact Statement (DOE DEIS 293). Please note, however, that the C&T EIS and this report are not necessarily consistent in all assumptions, although each document clearly states the set of assumptions it is using to estimate costs and other impacts.

<sup>2</sup> Submittal to DOE by Governor Harvey A. Martinez, Pueblo of San Ildefonso, June 8, 1998; and letter to Dennis Martinez, DOE, from Joseph C. King, Administrator, Los Alamos County, June 30, 1998.

<sup>3</sup> There are more than 200 numerically – identified structures within the 43 square mile area of LANL. Most are used for offices, storage or support functions and include transportables, trailers, guardhouses, passageways, and buildings.

The estimated costs and duration of environmental restoration among the ten parcels vary considerably, depending on the types and complexity of the PRSs and structures present onsite, and on the proposed future land use of each parcel. The DOE has estimated a range of waste volume estimates, cleanup costs, and cleanup duration for each parcel, based on land use scenarios that represent the contemplated uses to which each parcel might be put.

DOE's recommendations on proposed remedies, and estimates of projected waste volumes, cleanup costs and cleanup duration are based on site characterization data as it exists today. They are also based on the DOE's understanding of the types of cleanup strategies and the cleanup levels that are generally acceptable under the RCRA corrective action regulations. The DOE believes that the remedies proposed for each parcel are appropriate based on the specific land use assumptions for that parcel. Such assumptions reflect the contemplated uses for each parcel. If a parcel is ultimately proposed for a use that is different from those presented in this report, then the proposed remedies and their associated costs could change.

The information presented in the following tables presents an estimate of the range of projected costs and waste volumes for the entire land transfer project. These estimates are based on the preliminary proposed land uses by San Ildefonso Pueblo and Los Alamos County. Tables ES-1 and ES-2 present the DOE's estimates of the lowest and highest estimated waste volumes that could be generated to prepare each parcel for transfer. Tables ES-3 and ES-4 present estimates of the lowest and highest remediation costs, per parcel, that could reasonably be expected to prepare each parcel for transfer, based on currently available information. Table ES-5 presents the cost differentials between the remediation costs budgeted in the existing LANL Environmental Restoration Project Baseline, and the estimated costs to remediate each parcel in preparation for land transfer under each land use scenario for which it has been proposed. The footnotes to Table ES-5 are especially useful in explaining the bases for the land transfer cost estimates, and the reasons for variance from the existing baseline budget.

**Table ES-1**  
**Projected Waste Volumes by Parcel**  
**Lowest-Volume Estimate<sup>4</sup>**

Parcel	Projected Waste Volumes (cubic yards) <sup>5</sup>							
	Solid	Hazardous	Low-Level	Mixed	PCB	PCB/Mixed	TRU	Asbestos
TA-21	47,038	387	15,091	1,108	196	40	54	1929
DP Road	1893	744	0	0	0	0	0	330
DOE LAAO	350	0	0	0	0	0	0	46
Airport	24,056	0	400	0	0	0	0	0
White Rock	0	0	0	0	0	0	0	0
Rendija Canyon	0	7500	0	0	0	0	0	0
White Rock Y	0	0	0	0	0	0	0	0

<sup>4</sup> Parcels for which two land use scenarios are proposed may have two different sets of proposed remedies. Each different remedy set could have different estimated waste volumes associated with it. This table identifies, per parcel, the lower of those estimates, regardless of the land use with which it is associated. For parcels where only one land use scenario – and one remedy set – has been identified, there is only one waste volume estimate, and it appears in this table and in Table ES-2.

<sup>5</sup> Liquid waste is estimated to comprise less than one percent of total waste volume. Because the contribution of liquid waste to the total waste stream is minimal, it is not included in this table.

**Table ES-1 (continued)  
Projected Waste Volumes by Parcel  
Lowest-Volume Estimate<sup>6</sup>**

Site 22	10	0	0	0	0	0	0	0
Manhattan Monument	0	0	0	0	0	0	0	0
TA-74	205	2	1	2	0	0	0	37
<b>Total</b>	<b>73,552</b>	<b>8,633</b>	<b>15,492</b>	<b>1,110</b>	<b>196</b>	<b>40</b>	<b>54</b>	<b>2,342</b>

**Table ES-2  
Projected Waste Volumes by Parcel  
Highest-Volume Estimate<sup>7</sup>**

Parcel	Projected Waste Volumes (cubic yards)							
	Solid	Hazardous	Low-Level	Mixed	PCB	PCB/Mixed	TRU	Asbestos
TA-21	47,038	387	15,091	1,108	196	40	54	1,929
DP Road	1893	754	0	0	0	0	0	380
DOE LAAO	2931	0	0	0	0	0	0	486
Airport	24,056	0	400	0	0	0	0	0
White Rock	0	0	942	0	0	0	0	0
Rendija Canyon	1	7,500	0	0	0	0	0	0
White Rock Y	0	0	3767	0	0	0	0	0
Site 22	10	0	0	0	0	0	0	0
Manhattan Monument	0	0	0	0	0	0	0	0
TA-74	205	1	98,881	2	0	0	0	37
<b>Total</b>	<b>76,134</b>	<b>8,643</b>	<b>118,681</b>	<b>1,110</b>	<b>196</b>	<b>40</b>	<b>54</b>	<b>2,920</b>

<sup>6</sup> Parcels for which two land use scenarios are proposed may have two different sets of proposed remedies. Each different remedy set could have different estimated waste volumes associated with it. This table identifies, per parcel, the lower of those estimates, regardless of the land use with which it is associated. For parcels where only one land use scenario – and one remedy set – has been identified, there is only one waste volume estimate, and it appears in this table and in Table ES-2.

<sup>7</sup> Parcels for which two land use scenarios are proposed may have two different sets of proposed remedies. Each different remedy set could have different waste volumes associated with it. This table identifies, per parcel, the higher of those estimates, regardless of the land use with which it is associated. For parcels where only one land use – and one remedy set – has been identified, there is only one waste volume estimate, and it appears in this table and in Table ES-1.

**Table ES-3  
Projected Cost Estimates for Remediation and D&D by Parcel  
Lowest-Cost Estimate<sup>8</sup>**

Parcel	Estimated Costs for Completion (\$K)	Range in Estimated Durations for Individual PRSs and Structures (months) <sup>9</sup>
TA-21	391,171 <sup>10</sup>	1-84
DP Road	26,986	2-70
DOE LAAO	4,253	11-24
Airport	28,217	1-75
White Rock	954	16
Rendija Canyon	19,053	14-30
White Rock Y	1,880	16
Site 22	91	9
Manhattan Monument	0	0
TA-74	4,655	2-18
<b>Total</b>	<b>477,260</b>	<b>-</b>

**Table ES-4  
Projected Cost Estimates for Remediation and D&D by Parcel  
Highest-Cost Estimate<sup>11</sup>**

Parcel	Estimated Costs for Completion (\$K)	Range in Estimated Durations for Individual PRSs and Structures (months)
TA-21	391,171	1-108
DP Road	29,070	2-84
DOE LAAO	9,680	9-24
Airport	28,217	1-75
White Rock	3,374	24
Rendija Canyon	20,462	14-30
White Rock Y	10,424	24
Site 22	91	9
Manhattan Monument	0	0
TA-74	216,638	2-22
<b>Total</b>	<b>709,127</b>	<b>-</b>

<sup>8</sup> Parcels for which two land use scenarios are proposed may have two different sets of proposed remedies. This table identifies the lower of those estimates, regardless of the land use with which it is associated. In other words, this information in this table does not correlate to one particular land use. For parcels where only one land use – and one remedy set – has been identified, there is only one cost estimate, and it appears in this table and in Table ES-4.

<sup>9</sup> This column presents the estimated shortest- and longest-duration remediation or D&D projects within each parcel. Actual project duration may vary, based on funding levels and the sequencing of activities, and the time frame required to accomplish all remediation projects within a parcel may exceed the longest-duration project listed in the table.

<sup>10</sup> Cost of canyons remediation are included for TA-21 and the DP Road parcels, but may not be required. Costs of canyons cleanup are ~50% of total TA-21 costs because the mesa sides and canyon bottoms are not developable.

<sup>11</sup> Parcels for which two land use scenarios are proposed may have two different sets of proposed remedies. This table identifies the higher of the remedial cost estimates, regardless of the land use with which it is associated. In other words, the information in this table does not correlate to one particular land use. For parcels where only one land use – and one remedy set – has been identified there is only one remedial cost estimate, and it appears in this table and in Table ES-3.

**Table ES-5**  
**Remediation Cost Differentials between Baseline Budget and Land Transfer Land Use Scenarios<sup>12</sup>**

<b>Parcel</b>	<b>Estimated Lowest Costs for Land Transfer (\$K)</b>	<b>Estimated Highest Costs for Land Transfer (\$K)</b>	<b>Estimated Cost to Complete per Current Baseline<sup>13</sup> (\$K)</b>	<b>Net Change<sup>14</sup> Per Proposed Land Use Scenario (\$K)</b>
TA-21 <sup>15</sup>	391,171	391,171	129,408	261,763 (commercial)
DP Road <sup>16</sup>	26,986	29,070	2,035	24,951 (commercial) 27,035 (residential)
DOE LAAO	4,253	9,680	2,000	2,253 (commercial) 7,680 (residential)
Airport	28,217	28,217	8,870	19,347 (commercial)
White Rock	954	3,374	924	30 (preservation) 2,450 (residential)
Rendija Canyon	19,053	20,462	1,204	17,849 (preservation) 19,258 (residential)
White Rock Y	1,880	10,424	2,533	(653) (preservation) 7,891 (preservation)
Site 22	91	91	0	91 (commercial)
Manhattan Monument	0	0	0	0 (preservation)
TA-74	4,655	216,638	8,042	(3,387) (preservation) 208,596 (preservation)
<b>Total</b>	<b>476,836</b>	<b>711,158</b>	<b>155,016</b>	<b>556,142 (highest)</b> <b>321,820 (lowest)</b>

<sup>12</sup> The estimated costs to complete remediation and D&D under any land transfer scenario are typically higher than the estimated costs to complete under the existing and soon-to-be-revised ER Project baseline. This is because the existing, and soon-to-be-revised, ER Project baseline incorporates efficiencies gained from aggregation of PRSs in project scheduling and data reporting. The estimated costs to complete for land transfer are higher because such efficiencies are often lost. In addition, the estimated costs to complete for land transfer quantify the uncertainties in the current ER Project baseline. In the baseline, where detailed PRS and structure information is not yet available, it was simply assumed that some number of sites will be simple to characterize and remediate, others will be of moderate difficulty, and still others will be highly complex. Uncertainty exists when there is not yet sufficient data available to determine whether or not these assumptions are accurate. In contrast, the assumption made under any land transfer scenario is that all PRSs and structures will have to be characterized and, if necessary, remediated, with a moderate to high degree of rigor to gain expedient regulatory acceptance (which is a prerequisite to actual land transfer) and to be acceptable to the potential recipients. The DOE acknowledges that more cleanup could be required for land that is transferred than for land that will remain under its institutional control.

<sup>13</sup> The LANL ER Project baseline as it existed on January 15, 1999. This baseline is currently being revised to quantify and reduce uncertainties up front, and to identify and capitalize on efficiencies to be gained from PRS aggregation and scheduling.

<sup>14</sup> The explanation of the cost differential is addressed in large part in the two preceding footnotes. In addition, it must be noted that costs to complete for land transfer were estimated using RACER, a remediation and cost estimation model developed by the U.S. Air Force and used throughout the Department of Defense complex. This model was not used when project costs were originally estimated under the existing LANL ER Project baseline. It was adopted as a cost estimating tool for the land transfer project because it has been validated by the U.S. Army Corps of Engineers, and is now widely accepted within the environmental restoration industry. The use of different cost estimation tools would be expected to result in certain systematic differences in project cost estimates.

<sup>15</sup> The costs for characterizing and remediating the Los Alamos and DP Canyon bottoms are not included in the cost estimates for this parcel, because the mesa sides and the canyon bottoms are not topographically suitable for development. It might be more expedient to resurvey the boundaries of this parcel to exclude these areas (which would result in no net loss of developable land), than to characterize and, if necessary, remediate them on an accelerated basis.

<sup>16</sup> The costs for characterizing and remediating the DP Canyon bottom is not included in the cost estimates for this parcel, because the mesa sides and the canyon bottoms are not topographically suitable for development. It might be more expedient to resurvey the boundaries of this parcel to exclude this area (which would result in no net loss of developable land), than to characterize and, if necessary, remediate it on an accelerated basis.

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**LIST OF ACRONYMS**

<b>AA</b>	.....	Administrative Authority
<b>AOC</b>	.....	Area of Concern
<b>C&amp;T</b>	.....	Conveyance and Transfer
<b>D&amp;D</b>	.....	Decontamination & Decommissioning
<b>DOE</b>	.....	U.S. Department of Energy
<b>DP</b>	.....	Defense Programs
<b>EM</b>	.....	Office of Environmental Management, Department of Energy
<b>EPA</b>	.....	U.S. Environmental Protection Agency
<b>ER</b>	.....	Environmental Restoration
<b>HSWA</b>	.....	Hazardous and Solid Waste Amendments of 1984
<b>LAEO</b>	.....	Los Alamos Area Office, Department of Energy
<b>LANL</b>	.....	Los Alamos National Laboratory
<b>MDA</b>	.....	Material Disposal Area
<b>NFA</b>	.....	No Further Action
<b>NMED</b>	.....	New Mexico Environment Department
<b>PCB</b>	.....	Polychlorinated Bipheynls
<b>PRG</b>	.....	Preliminary Remediation Goal
<b>PRS</b>	.....	Potential Release Site
<b>RCRA</b>	.....	Resource Conservation and Recovery Act of 1976
<b>TA</b>	.....	Technical Area
<b>TSFF</b>	.....	Tritium Science and Fabrication Facility
<b>TSTA</b>	.....	Tritium Systems Test Assembly

## 1.0 Introduction

### 1.1 Background of Conveyance and Transfer & Purpose of the ER Report

On November 26, 1997, Congress enacted legislation that required the Secretary of Energy to identify land at Los Alamos National Laboratory to be considered for conveyance or transfer to the incorporated County of Los Alamos or to the Secretary of the Interior, in trust for the Pueblo of San Ildefonso (Public Law 105-119, the Departments of Commerce, Justice, and State, the Judiciary, and Related Agencies Appropriations Act, 1998). One purpose of such conveyance and transfers, which are being contemplated by DOE at its installations across the nation, is to further the self-sufficiency of one of the Atomic Energy Communities, namely Los Alamos. The ability of Los Alamos County to become self-sufficient is especially important in light of the elimination of funding for continued annual assistance payments by DOE to the County. Another purpose, specific to conveyance and transfer of lands at Los Alamos National Laboratory (LANL), is to offer to transfer lands to the Pueblo of San Ildefonso.

The Department of Energy (DOE) tentatively identified nine land parcels<sup>17</sup> for such transfer in the "Land Transfer Report to Congress under Public Law 105-119, A Preliminary Identification of Parcels of Land in Los Alamos, New Mexico for Conveyance or Transfer" (April, 1998). Public Law 105-119 also directed the DOE to identify for Congress any environmental restoration or remediations that would be necessary within any of these tracts prior to transfer. This report fulfills the requirement to provide such information.

### 1.2 Environmental Restoration at Los Alamos National Laboratory

The ER Project at LANL was established by DOE in 1989 to assess and remediate sites that were known or suspected to be contaminated because of historical operations, and that either were or still are under DOE control. By 1992, the ER Project had reviewed existing historical records and interviewed long-time employees, which resulted in the identification of approximately 2120 of such sites, called "potential release sites" (PRSSs). LANL's PRSSs are diverse and include historically-used material disposal areas (MDAs), canyons, outfalls, drain lines, firing sites, industrial sites, and miscellaneous other sites, such as locations of historic spills. By 1994, detailed work plans were being implemented to characterize LANL's PRSSs, in accordance with the requirements of the U.S. Environmental Protection Agency's (EPA) Resource Conservation and Recovery Act (RCRA) and Hazardous and Solid Waste Amendments (HSWA) regulations governing the cleanup of hazardous wastes.

In 1996, the DOE Office of Environmental Management (EM) initiated a complex-wide strategy to accelerate site cleanup and enhance performance of the cleanup program. In particular, the strategy focuses on completing work at as many sites as possible by the end of fiscal year 2006. Known as "Accelerating Cleanup: Paths to Closure", the

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<sup>17</sup> DOE tentatively identified nine parcels as candidates for land transfer in the April 1998 report referenced above. Today's report presents information on ten parcels. This apparent discrepancy is explained by the fact that Site 22 and the Manhattan Monument were originally combined and addressed as one parcel. In this report they are presented and addressed as individual parcels, to be consistent with DOE's draft Conveyance & Transfer Environmental Impact Statement (C&T EIS).

plan includes input from all major field sites, including LANL, to support EM's program planning process.

As of September 1998, the LANL ER Project was in some phase of characterization for more than 1100 PRSs, and had reported results on 774 of these PRSs. In addition, the Project had conducted cleanups at 120 sites, and had recommended 822 sites for "no further action" (NFA) to DOE and an additional 586 such sites to NMED. The DOE has concurred with 425 such recommendations at the sites over which it has oversight authority. The NMED has removed 3 sites from Module VIII of LANL's RCRA permit, and an additional 99 sites have been proposed for removal by NMED in a public notice published in November 1998 by the regulator. DOE currently estimates that environmental restoration activities at LANL will be completed by 2008.

In addition to remediating LANL's PRSs, the environmental restoration program encompasses another important component: the execution of DOE's decontamination and decommissioning (D&D, or decommissioning) program. This program applies to all DOE-owned, contractor-owned, or privately-owned facilities that are inactive or surplus, and have been contaminated with radioactive, hazardous, or mixed wastes or substances because of DOE nuclear program activities. The DOE's Office of Environmental Restoration (EM-40) is responsible not only for environmental restoration, but also for D&D of all surplus facilities. D&D activities are scheduled on a priority basis that is incorporated into the EM-40 Environmental Restoration Five-Year Plan.

Since 1990, more than 40 structures have been decommissioned at LANL. Approximately 100 additional structures have been slated for D&D in the future, on a schedule determined annually on the basis of budget allocations. Unlike the component of the environmental restoration program related to PRSs, which has a projected year of completion, D&D activities are expected to be ongoing over the life of the LANL operations.

### **1.3 Environmental Restoration Activities Associated with the Subject Parcels**

There are 200 PRSs and 152 structures located within the ten parcels tentatively identified by DOE for conveyance and transfer<sup>18</sup>. Two of the parcels – Site 22 and the Manhattan Monument – have neither PRSs nor LANL structures associated with them and, consequently, the environmental restoration issues associated with them are expected to be minimal. At the other end of the spectrum, the TA 21 parcel contains 154 of the 200 PRSs and 125 of the 152 structures. The environmental restoration issues associated with this parcel are the most complex, and will be the most costly of all of the tentatively proposed land transfer parcels. Some of the other parcels, including the White Rock Y, the White Rock parcel, and the TA 74 parcel, are situated within one or more canyons drainage systems and could, potentially, be the recipients of contaminant migration from mesa top or up-canyon locations.

Table 1.3.1 summarizes the number of PRSs and structures located in each parcel, and identifies other important issues related to environmental restoration activities.

<sup>18</sup> These numbers are based on the parcel boundaries as they were defined as of November 25, 1998.

**Table 1.3.1  
Summary of Environmental Restoration Sites and Concerns  
Tentatively-Identified Land Transfer Parcels**

<b>Parcel</b>	<b>Number of PRSs</b>	<b>Number of Structures</b>	<b>Other Concerns<sup>19</sup></b>
TA 21	154	125	Canyon contamination
DP Road	10	10	Canyon contamination
DOE LAAO	3	3	None
Airport	25	4	Canyon contamination
White Rock	0	1	Canyon contamination
Rendija	4	0	None
White Rock Y	0	4	Canyon contamination
Manhattan Monument	0	0	None
TA 74	4	5	Canyon contamination
Site 22	0	0	Construction debris
<b>Total</b>	<b>200</b>	<b>152</b>	

The issues associated with each of the ten parcels are presented in detail in the following chapters, as are the DOE's estimates of total remediation and decommissioning costs and duration.

#### **1.4 Limitations and Uncertainties in the ER Report**

The characterization of LANL's PRSs is an ongoing and often, by nature, an iterative process. The challenge of the ER Project is to balance resources optimally between site characterization and remediation. Characterization projects are planned and conducted with the objective of gathering sufficient information to make decisions about whether cleanup is required and, if it is, what cleanup strategies are likely to be successful. However, as the ER Project learns more about a site through the process of characterization, it often becomes clear that additional information is needed in order to make a well-founded decision about the next step.

The PRSs and structures discussed in this report are currently at different stages in the characterization and cleanup process. At some sites, characterization may be only at the early stages (i.e., historical file information has been gathered and, in some cases, limited sampling has been performed). In other cases, site characterization has been thorough and is believed to be complete, and the site may be proposed for cleanup or no further action (NFA). In still other cases, cleanup has been completed, and the site has been proposed (and, in some cases, approved) for NFA. The level of certainty of DOE's knowledge about each PRS at the date of this report varies, therefore, according to what stage has been reached in the overall characterization and cleanup process.

The ER Project makes its decisions about whether or not a site requires remediation on the basis of the risk that contamination at the site poses to human health, the ecosystem (i.e., plant and animal life), and the environment. This risk-based decision-making process has been adopted from EPA methodology, and is being refined by the ER Project in conjunction with the NMED. In principle, the decision-making process is based on the premise that the risk posed by contamination at a site will vary depending

<sup>19</sup> "Other concerns" include environmental contamination issues or potential issues resulting from historical operations, that are not captured under a PRS number. These issues are limited only to environmental restoration or decommissioning.

on how the site is going to be used in the future. Consequently, the level of cleanup required at a site will also vary as a function of proposed land use. In general, contaminants on land to be used for residential purposes must be cleaned up to lower levels than the same contaminants on land to be used for commercial or industrial development, because the potential for exposure to the contaminants is greater under the residential land use scenario.

The proposed remedies associated with each parcel were developed based on land use scenarios proposed by the potential land recipients.<sup>20</sup> In general, both potential recipients propose to use some (and not always the same) parcels for commercial and industrial development to meet the goal of economic diversification; residential development to meet the goal of self-sufficiency; and cultural or environmental preservation to meet the goal of preservation. These proposed land uses -- commercial and industrial development, residential development, and cultural or environmental preservation -- correspond to the ER Project's risk-based land use scenarios and cleanup levels based on industrial use, residential use, and industrial use, respectively. The rationale for using industrial use cleanup levels for the cultural and environmental preservation land use scenario is that the potential for exposure to contaminants is similar under both scenarios (e.g., time spent on site under the industrial and preservation scenarios is intermittent, in contrast to residential use, where time spent on site is fairly continuous and long-term).

A parcel might be proposed to be used by the potential recipients for both commercial development and cultural preservation. The remedies presented in this report would be expected to meet the cleanup goals associated with such uses. If, however, the land use were to change subsequent to transfer, then the remedies (and their associated costs and waste volumes) presented in this report would not necessarily be appropriate to achieve the cleanup goals required for the new land use. In general, land used for residential development must meet the most stringent cleanup goals of any land use scenario.

It is also important to keep in mind that an Administrative Authority (AA) must approve the remedy proposed to be undertaken at each PRS, and must approve all requests for NFA at a given PRS. For all PRSs listed in the Hazardous and Solid Waste Amendments (HSWA) Module of LANL's Resource Conservation and Recovery Act (RCRA) permit, the AA is the NMED. For all other PRSs, the AA is the DOE. The tables in Appendix A specify which PRSs in each parcel are included in LANL's RCRA permit.

The cost estimates presented in this document are based on the estimated costs of all site activities, from drafting the initial sampling and analysis plan for a PRS (or characterization plan for a D&D structure) through submittal of a final report to the AA. The cost estimates for characterization and remediation of PRSs were developed using an environmental cost estimating model, called the Remedial Action Cost Engineering and Requirements (RACER) system, which was developed by the U.S. Air Force. The parametric, or "per-unit", costs used to develop D&D cost estimates were derived from a combination of actual cost data for D&D of previously-decommissioned TA-21 structures; engineering cost estimates prepared by LANL D&D subcontractors; and asbestos survey data. All cost estimates for projects that are scheduled in government fiscal year (FY) 2000 and beyond are escalated by 2.7 percent per year, compounded

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<sup>20</sup> The land use scenario(s) assumed for each parcel in this report are based on the parcel-specific land uses proposed to DOE by the Pueblo of San Ildefonso and Los Alamos County in June 1998.

annually, to capture the costs of inflation.<sup>21</sup> All cost estimates are also based on the currently available information for each PRS or structure, and are subject to change if significantly different information is discovered during the course of investigation or remediation. Finally, it should be noted that all PRSs, including those at which no remedial action is ultimately required, must be characterized and the results must be reported to the AA. As a consequence, there are almost always costs associated with PRSs identified as requiring “no action”.

The estimated duration for remedial actions and D&D are from the time at which characterization plans or sampling and analysis plans are begun, through the time that a final report is submitted to the AA. It does not include estimates of time for activities beyond the DOE’s control, such as the review of documents by the AA. All estimates are based on the currently available information for each PRS or structure, and are subject to change if significantly different information is discovered during the course of investigation or remediation.

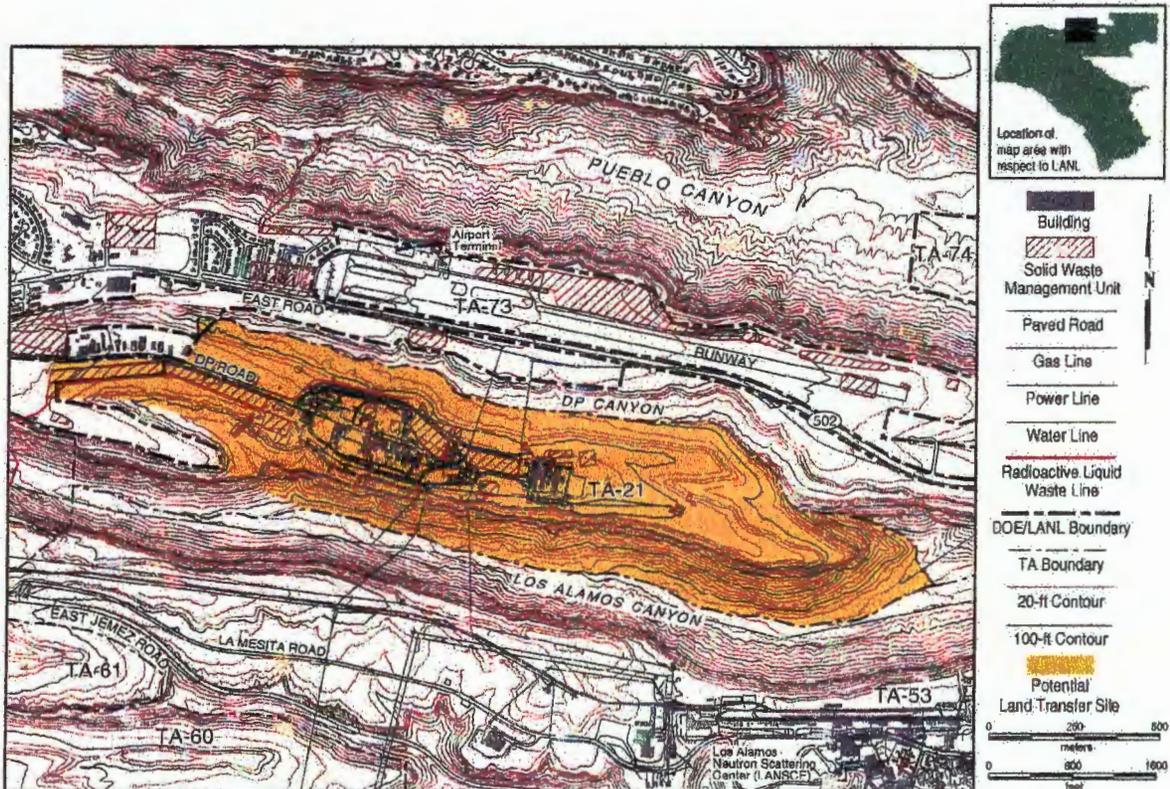
As stated above, DOE’s recommendations on proposed remedies, and estimates of projected waste volumes, cleanup costs and cleanup duration presented in this report are based on site characterization data as it exists today. They are also based on the DOE’s understanding of the types of cleanup strategies and the cleanup levels that are generally acceptable under the RCRA corrective action regulations. The DOE believes that the remedies proposed for each parcel are appropriate based on the specific land use assumptions for that parcel. Such assumptions reflect the contemplated uses to which each parcel might be put. If a parcel is ultimately proposed for a use that is different from those presented in this report, then the proposed remedies and their associated costs could change.

## **1.5 Road Map to the ER Report**

The remainder of this report presents a parcel-by-parcel description of the status of environmental restoration activities (including the decommissioning of structures), and the estimated costs and duration of activities yet to be undertaken prior to conveyance and transfer. The report is supplemented by several appendices. Appendix A is derived from the ER Project’s PRS and Structure database, and presents PRS- and structure-specific information on environmental restoration activities undertaken to date, and planned in the future. Appendix B supplements the information provided in Appendix A with a compilation of one-page summaries for each PRS associated with the ten parcels. Appendix C describes the sources of objective information used to compile the ER Report, and it describes the methodologies used when information – such as remedy selection and volumes of waste -- had to be estimated subjectively, sometimes in the absence of adequate objective information.

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<sup>21</sup> Based on the annual inflation rate for the past three years.



**Figure 2.1 Potential Land Transfer—TA-21 Site**

## 2.0 TA-21 Parcel

### 2.1 Introduction

The TA-21 Parcel is a 244 acre site, located at the eastern end of the same mesa on which the central business district of the Los Alamos town site is located. Of the parcel's 244 acres, only 105 acres are located on the mesa top and are topographically suitable for development. Figure 2.1 illustrates the location of the parcel as it relates to the eastern portion of the Los Alamos town site. Los Alamos Canyon and Pueblo Canyon are to the south and north respectively. Access is by way of DP Road. The Los Alamos Airport is located immediately to the north of the site but is separated by a smaller, secondary canyon. Some of the buildings within the western portion of the parcel, known as DP West, are currently being used as office space by various LANL groups.

Some of the buildings within the eastern portion of the tract (DP East) have historically been used and are currently being used to house LANL's Tritium Systems Test Assembly (TSTA) and Tritium Science and Fabrication Facility (TSFF). These tritium research activities are critical to the national security and research mission of LANL. There is currently no plan to relocate the tritium-related work conducted at DP East.

The land use proposed by both potential land recipients is commercial and industrial development, for the purpose of economic diversification.

## 2.2 Description of PRSs and Structures within the TA-21 Parcel

TA-21 is among the oldest technical areas at LANL. Operations commenced in 1945 with the transfer of plutonium purification activities from the original Manhattan Engineering District facilities to TA-21. The plutonium processing and purification activities were moved from TA-21 in the late 1970s. Past operations at TA-21 resulted in environmental contamination of the site. There are a total of 154 PRSs within the TA-21 parcel and a 50-foot buffer area surrounding the parcel. These PRSs require investigation and, potentially, remediation by the LANL ER Project. The PRSs fall within five general categories: two PRSs are classified as incinerators; 88 are surface units; 21 are outfalls; nine are material disposal areas (MDAs); and 34 are subsurface units. Figures 2.2 and 2.3 show the locations of the PRSs at TA-21.

The PRSs that are classified as "incinerators" include inactive incinerators and filter houses, as well as the assessment of the entire 244 acres of TA-21 for elevated levels of contamination resulting from airborne emissions and the cleanup of those locations, if any, where levels of contamination exceed regulatory limits. The surface unit PRSs are defined as areas having known or potential releases that are confined primarily to surface soil. These include aboveground storage areas, a former tank farm, surface disposal units, and a sewage treatment plant. The PRSs in the outfall category include septic systems, waste and drain lines, and surface outfalls. The subsurface unit PRSs include underground seepage pits, dry wells, and an acid pit. The MDA category includes not only the five main MDAs (MDAs A, B, T, U, and V) that, combined, cover a surface area of approximately 16 acres, but also four associated PRSs.

There are 125 structures within TA-21 that would require D&D prior to transferring the parcel. These structures range from electrical substation sheds to wastewater systems to research and process facilities. The structures and systems fall within six categories (Types II-VI and utilities), based on the anticipated cost per unit measure anticipated for their decommissioning. Figures 2.4 and 2.5 show the locations of the structures at TA-21.

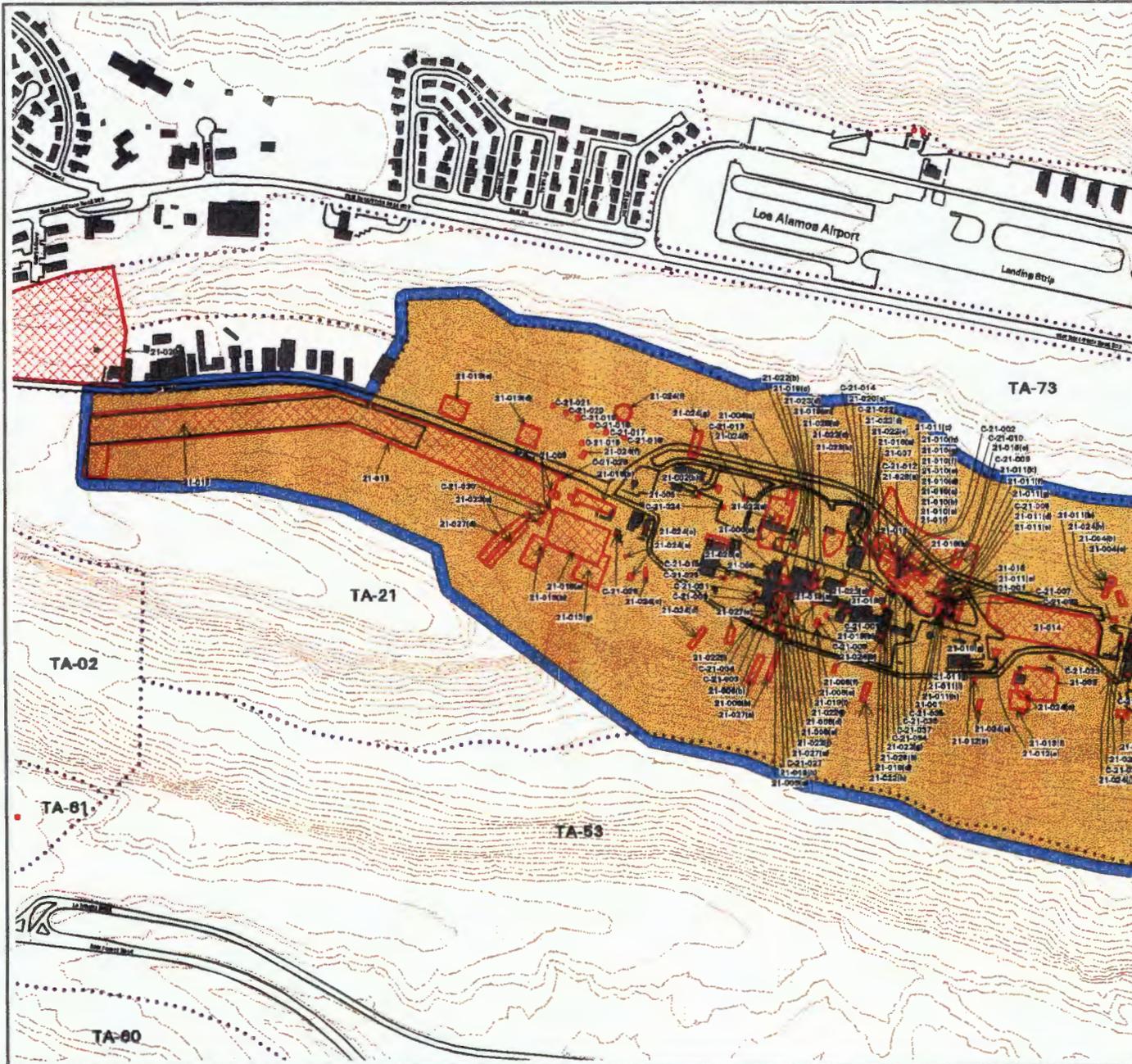
Of the 154 PRSs at TA-21, 95 have been sampled to begin to characterize the nature and extent of contamination that has resulted from historical activities. The results of these sampling efforts are presented in Section 2.3, Extent of Contamination. Some remedial activity has been performed at six TA-21 PRSs. The regulatory status of the TA-21 PRSs is summarized in Section 2.4.

## 2.3 Extent of Contamination

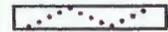
The specific types and levels of contamination present at each PRS and D&D structure vary. In general, hazardous, chemical, and radioactive contamination is most prevalent. Polychlorinated biphenyls (PCBs) contaminate some locations.

This parcel has been extensively investigated since 1992, both for surface and subsurface contamination. Results are summarized and compared to cleanup goals for industrial use in Table 2.3.1. Because of its historical uses, this parcel is the most contaminated of the candidate parcels for land transfer. Six metals (including total uranium), ten organic compounds, and eleven radionuclides exceeded preliminary

Figure 2.2: TA-21 Site PRSs, West



Location of map area with respect to LANL



Boundary, TA



Contour, 20 foot



Road, Paved



Building



Potential Land Transfer Site



50 Foot Buffer Around Potential Land Transfer Site



Potential Release Site



0 700 1400

FEET

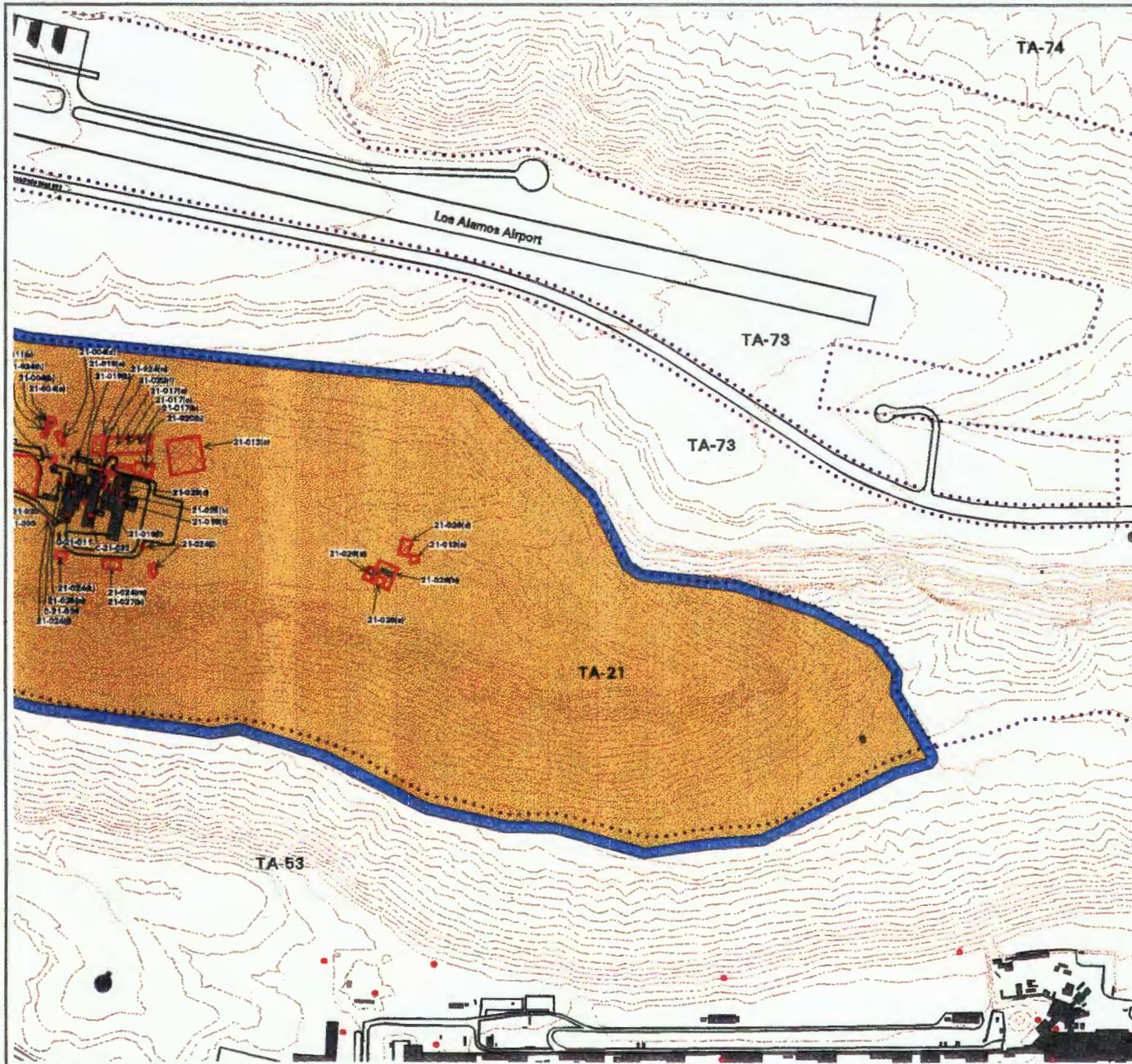
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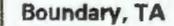
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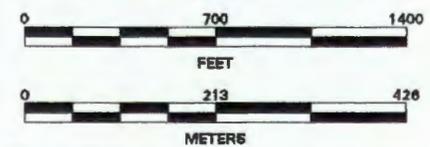
State Plane Coordinate System, New Mexico Central Zone, 1983 North American Datum

NOTICE: The information on this map is provisional. Feature locations are dependent on scale and symbology and their accuracy may not have been confirmed. Data are from various sources and are part of the FIMAD repository.

Figure 2.3: TA-21 Site PRSs, East



-  Boundary, TA
-  Contour, 20 foot
-  Road, Paved
-  Building
-  Potential Land Transfer Site
-  50 Foot Buffer Around Potential Land Transfer Site
-  Potential Release Site



State Plane Coordinate System, New Mexico Central Zone, 1983 North American Datum

NOTICE: The information on this map is provisional. Feature locations are dependent on scale and symbology and their accuracy may not have been confirmed. Data are from various sources and are part of the FIMAD repository.





U.S. Geological Survey

Geological Map of the [Region Name]

Scale: 1:50,000  
 Date: 1985  
 Author: [Name]

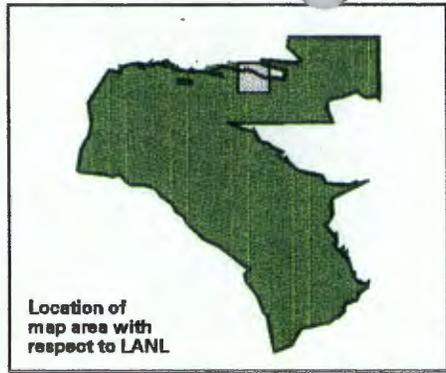
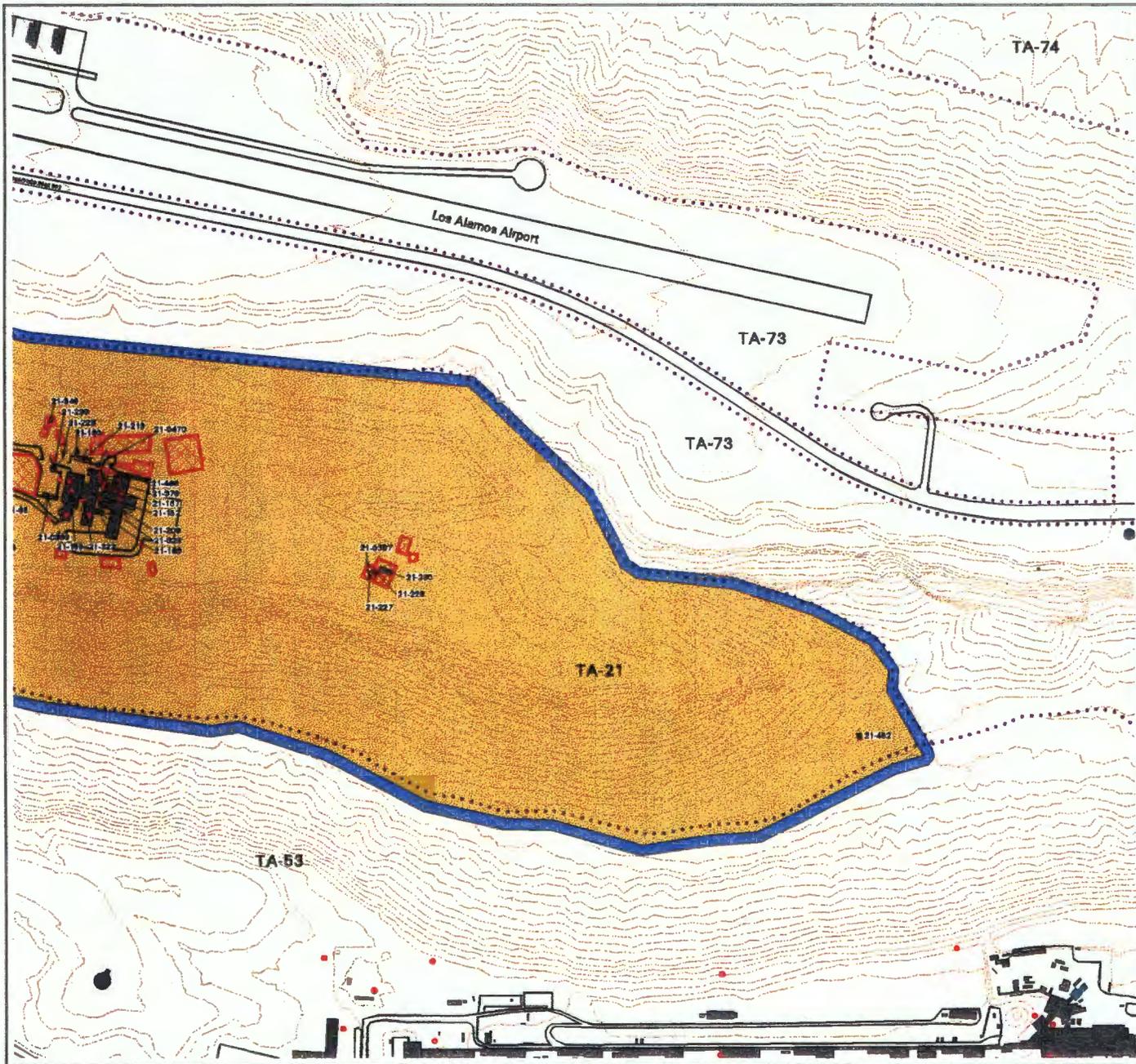
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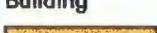
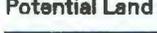
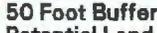
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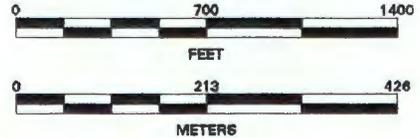
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Figure 2.5: TA-21 Site Buildings, East



-  Boundary, TA
-  Contour, 20 foot
-  Road, Paved
-  Building
-  Potential Land Transfer Site
-  50 Foot Buffer Around Potential Land Transfer Site
-  Potential Release Site



State Plane Coordinate System, New Mexico Central Zone, 1983 North American Datum

NOTICE: The information on this map is provisional. Feature locations are dependent on scale and symbology and their accuracy may not have been confirmed. Data are from various sources and are part of the FIMAD repository.

remediation goals (PRGs)<sup>22</sup> in one or more samples. Bis(2-chloroethoxy)methane has no PRG because there is no toxicological data from which to calculate one for this compound. Arsenic and radionuclides were most commonly found above cleanup goals, particularly radioisotopes of americium, plutonium, cesium, and strontium. Natural levels of arsenic frequently exceed calculated PRGs. This parcel is currently under continuing investigation to determine what remedies are appropriate for the PRSs located here.

**Table 2.3.1**  
**Contaminants Exceeding Region 9 Preliminary Remediation Goals (PRGs)**  
**Land Use Scenario: Commercial and Industrial Development**

Contaminant	Industrial PRG (mg/kg)	# Samples Collected	# Samples > PRG	Mean Conc. of Detects <sup>23</sup> (mg/kg)
Arsenic	3	1117	157	2.6
Chromium, Total	450	1128	3	15
Nickel	37,000	1107	1	146
Lead	1000	1117	2	27
Mercury	560	535	1	29
Uranium	230	574	1	7.7
Arochlor-1260	1.0	30	7	1.6
Benzene	1.4	614	1	1
Benzidene	0.013	350	1	1.8
Benzo(a)anthracene	3.6	889	1	0.92
Benzo(a)pyrene	0.36	888	12	0.75
Benzo(b)fluoranthene	3.6	890	1	0.87
Bis(2-chloroethoxy)methane	NA <sup>24</sup>	888	NA	0.35
Dichloroethene[1,1-]	0.12	613	1	2.9
Nitroso-di-n-propylamine[N-]	0.43	887	1	0.93
Nitrosodimethylamine[N-]	0.059	836	1	0.35
Americium-241	66 <sup>25</sup>	1127	62	731
Actinium-227	10	114	5	50
Cesium-137	15.3	623	37	61
Plutonium-238	81	1233	15	32
Plutonium-239	72	1185	54	829
Strontium-90	13.2	1111	44	43
Thorium-228	5.1	238	2	1.4
Tritium	780	496	4	21
Uranium-234	39	322	6	32
Uranium-235	30	711	3	2.8
Uranium-238	201	347	2	16

<sup>22</sup> PRGs represent the cleanup goals that must be achieved to prepare a site for a specified land use. The term "cleanup goal", as used in the body of this report, is synonymous with the term PRG. Residential PRGs are lower, and allow for the least amount of residual contamination to remain on site. Industrial PRGs are higher, and are appropriate to use when a site is being proposed for commercial and industrial development.

<sup>23</sup> Mean concentrations are calculated using only samples in which the contaminant was detected. "Non-detects" are not included in the calculation.

<sup>24</sup> Not available.

<sup>25</sup> Units are in picocuries per gram (pCi/g) for all radionuclides.

## 2.4 Regulatory Status

Of the 154 PRSs contained in this parcel, 82 are listed in the HSWA Module of LANL's RCRA permit. The NMED is the AA for this permit, and must concur that no further action is required at a PRS before the PRS can be removed from the permit. The remaining 72 PRSs are not listed on the permit, and DOE is the AA that must concur on "no further action" recommendations for ER action for these sites to be considered complete.

Presented below is a summary of the regulatory status of the PRSs within the bounds of this parcel.

**Table 2.4.1  
Summary of Regulatory Status<sup>26</sup>**

PRS/Structure Type	Under Investigation	Recommended for Human Health NFA	NFA Concurrence by DOE	NFA Concurrence by NMED	Under Reconsideration	Recommended for Integrated NFA
Incinerators	-	2	-	-	-	-
Surface Units	40	11	37	-	-	-
Outfalls	7	9	-	2	3	-
Subsurface Units	26	2	4	1	1	-
MDAs	9	-	-	-	-	-

## 2.5 Other Concerns

The parcel, as it is currently defined, extends to the bottom of Los Alamos Canyon to the south, and DP Canyon to the north. The canyon sides and canyon bottoms are not topographically suited for industrial or commercial development. The canyon bottoms will have to be characterized and, if necessary, remediated, prior to conveyance and transfer.

<sup>26</sup> Presented here are definitions of the regulatory categories presented in Table 2.4.1. "Under investigation" means that additional data must be collected in order to recommend an action (e.g., remediation, no further action) for a PRS. "Recommended for human health NFA" means that the LANL ER Project's evaluation of data for a given PRS indicates that residual contamination poses no unacceptable threat to human health, and so the Project has recommended no further action to the AA for the PRS. "NFA concurrence by DOE" means that the DOE is the AA for the PRS, and has concurred with the LANL ER Project's recommendation. "NFA concurrence by NMED" means that the NMED is the AA for the PRS, and it has concurred with the LANL ER Project's recommendation. "Under reconsideration" indicates that the AA has stated that specific additional information is needed to evaluate the LANL ER Project's recommendation, and the ER Project is collecting such information. "Recommended for integrated NFA" means that the LANL ER Project has evaluated the data for a given PRS, and the data indicate that the PRS does not unacceptably impact human health, the ecosystem, or the environment.

## 2.6 Proposed Remedies by Type

The contemplated land use for TA-21 is commercial and industrial development. The remedies described for the PRSs in the TA-21 parcel were identified on the basis of this land use scenario, and reflect the estimated costs of the remedial actions necessary for conveyance and transfer of this parcel. The following table summarizes the remedies proposed to be undertaken, given the land use scenario of commercial and industrial development.

**Table 2.6.1**  
**Proposed Remedies by Type<sup>27</sup>**  
**Land Use Scenario: Commercial and Industrial Development**

PRS/Structure Type/Other	Proposed Remedy			
	Removal	In Situ Treatment	In Situ Containment	No Action <sup>28</sup>
Incinerators	-	-	-	2
Surface Units	33	2	19	34
Outfalls	16	-	1	4
Subsurface Units	22	-	2	10
MDAs	4	-	5	-
Type II Structures	65	-	-	-
Type III Structures	7	-	-	-
Type IV Structures	20	-	-	-
Type V Structures	25	-	-	-
Type VI Structures	1	-	-	-
Utilities	7	-	-	-
Canyon Systems (no action)	-	-	-	2

## 2.7 Estimated Costs and Schedule

The following table summarizes the estimated costs and duration for the remedial activities and D&D within the TA-21 parcel. The terms "estimated costs for completion" and "estimated duration" are discussed in Section 1.4 of this report. PRS- and structure-specific information is included in Appendix A.

It must be emphasized that there are almost always costs associated with a "no action" remedial alternative. These reflect the costs of site characterization and reporting, which must be conducted to support the no action recommendation.

<sup>27</sup> "Type" refers to the PRS, structure, or other ER or D&D project. There are five possible categories, or "types", into which all PRSs fit: incinerators (e.g., incinerators, surface deposition from stack emissions); surface units (e.g., surface disposal units, aboveground storage); outfalls (e.g., septic systems, drain lines, and surface outfalls); material disposal areas; and subsurface units (e.g., seepage pits, dry wells). All structures subject to decommissioning fall under six possible categories (Type I – Type VI), each of which reflects a different decommissioning cost per unit measure. The appropriate category for a structure is determined by 1) the materials from which the structure is constructed, 2) access issues, and 3) health and safety issues related to decommissioning. "Other" ER or D&D projects have no PRSs or structures associated with them; examples include "canyons systems" and "non-LANL construction debris".

<sup>28</sup> The "no action" alternative simply means that no engineered remediation is recommended. However, site characterization and reporting is almost always required to support the "no action" recommendation.

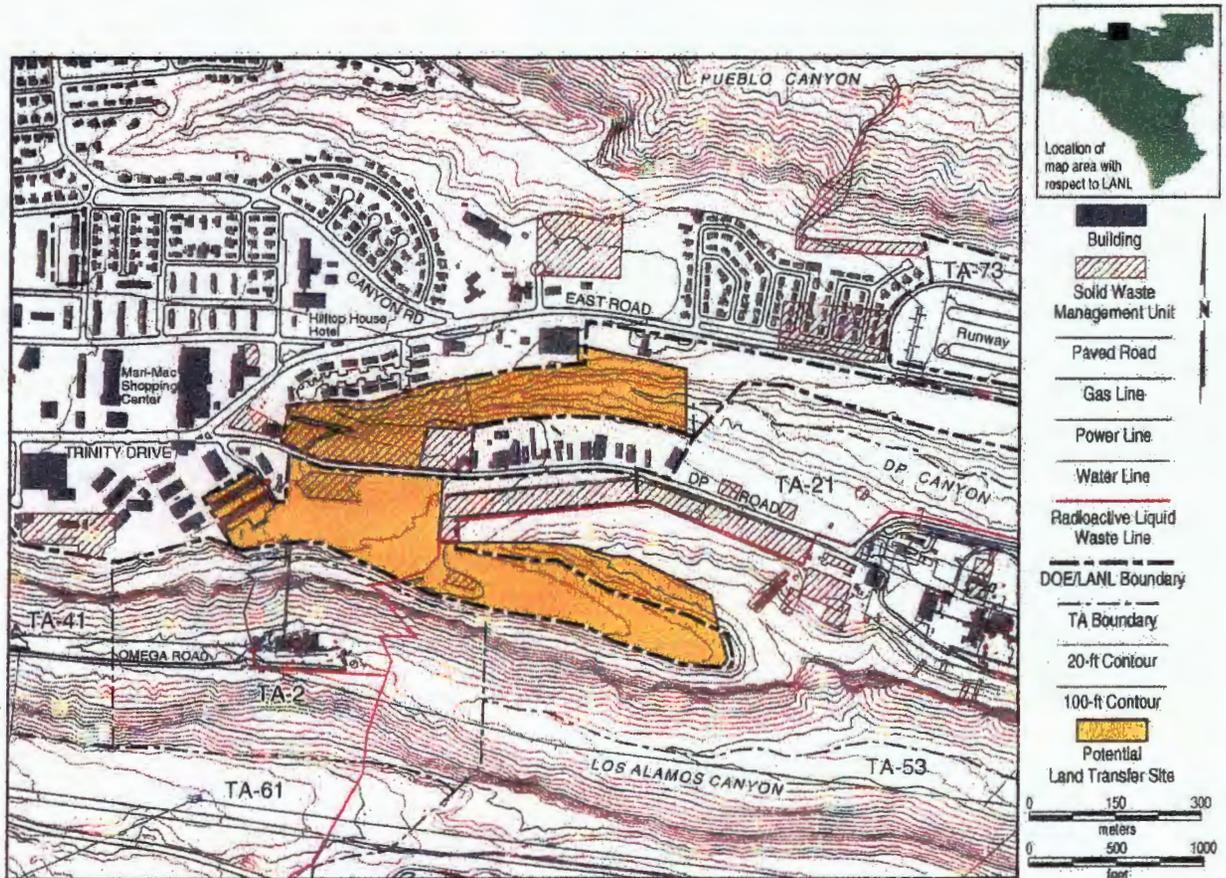
**Table 2.7.1**  
**Estimated Remedial Action and D&D Costs<sup>29</sup> and Estimated Durations**  
**Land Use Scenario: Commercial and Industrial Development**

<b>PRS/Structure Type</b>	<b>Number of PRS/Structure Types</b>	<b>Estimated Costs for Completion (\$K)</b>	<b>Range in Estimated Durations for Individual PRSs and Structures (months)</b>
Incinerators	2	326	10-12
Surface Units	88	38,854	1-108
Outfalls	21	29,412	10-71
Subsurface Units	34	20,130	12-75
MDAs	9	116,896	70-84
Type II Structures	65	6,590	1-12
Type III Structures	7	15,032	6-12
Type IV Structures	20	13,246	1-12
Type V Structures	25	110,259	6-12
Type VI Structures	1	321	2
Utilities	7	18,220	2
Sitewide ER Costs <sup>30</sup>	-	18,431	-
Sitewide D&D Costs <sup>31</sup>	-	3,150	-
Canyon Systems (no action)	2	2,295	11-12
<b>Total</b>	-	391,171	-

<sup>29</sup> In many cases, PRSs are proposed to be aggregated for remediation to achieve economies of scale. For example, the ER Project might propose to remediate a surface unit located adjacent to a MDA during the MDA remediation project, and the costs for such a project would be captured under the MDA costs. As a consequence, Table 2.7.1 (and the equivalent tables in subsequent chapters) is not a completely accurate representation of costs per type of PRS. Detailed information about the aggregation of PRSs within each parcel is available in Appendix A.

<sup>30</sup> Includes sitewide excavation costs to remediate contaminant deposition from stack emissions; health and safety support, NEPA, pre-closure monitoring, stormwater BMPs, and sitewide management costs.

<sup>31</sup> Includes project planning and management costs.



**Figure 3.1 DP Road (North, South, and West)**

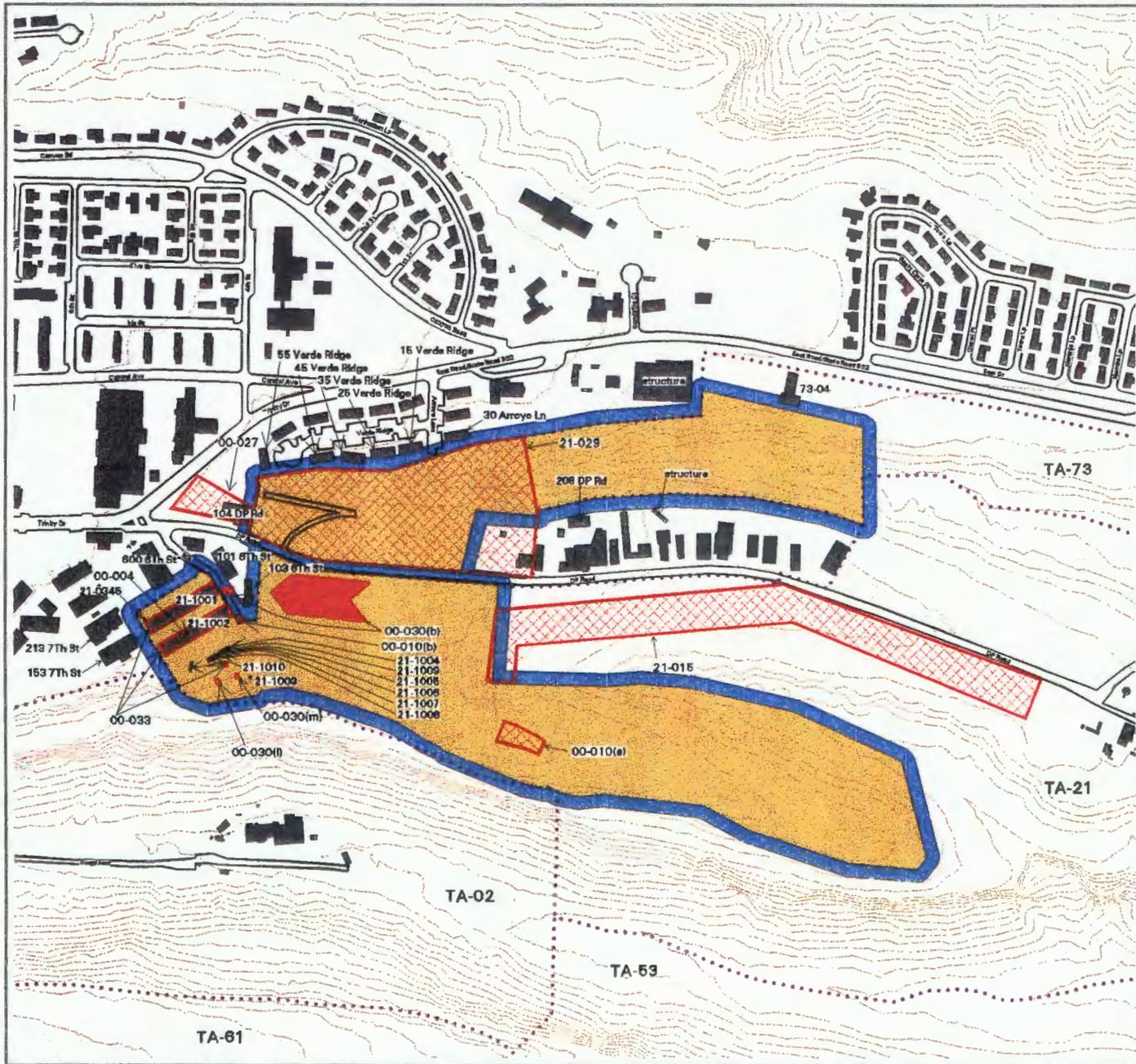
### 3.0 DP Road Parcel

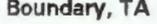
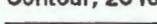
#### 3.1 Introduction

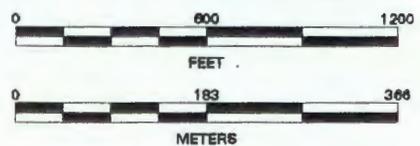
The DP Road parcel is located between the western boundary of TA-21 and the major commercial districts of the Los Alamos town site. It is located primarily in TA-73, although it also includes the westernmost portion of TA-21. Figure 3.1 illustrates the location of this parcel with respect to the eastern portion of the Los Alamos Town site. The site is bisected by DP Road, and commercial/light industrial uses, located along the north side of DP Road, penetrate into the site from the east. This development and the road delineate the north and south sections of the site. The western section is a small, generally rectangular site adjacent to the town site's commercial district. A portion of LANL's archives are housed in two large structures in the western section. Approximately 28 acres of the DP Road parcel were previously proposed for transfer under the auspices of the Atomic Energy Community Act, and not under Public Law 105-119.

The contemplated uses of the parcel by the potential recipients include commercial development and residential development.

Figure 3.2: DP Road (North, South, and West)



-  Boundary, TA
-  Contour, 20 foot
-  Road, Paved
-  Building
-  Potential Land Transfer Site
-  50 Foot Buffer Around Potential Land Transfer Site
-  Potential Release Site



State Plane Coordinate System, New Mexico Central Zone, 1983 North American Datum

NOTICE: The information on this map is provisional. Feature locations are dependent on scale and symbology and their accuracy may not have been confirmed. Data are from various sources and are part of the FIMAD repository.

### 3.2 Description of PRSs and Structures within the DP Road Parcel

There are 10 PRSs and 10 LANL-numbered structures within the parcel and a 50-foot buffer surrounding it. Figure 3.2 shows the locations of the PRSs and structures within the parcel and the buffer area. The PRSs are all associated with Laboratory operations that began in the late 1940s, which included warehousing, utility shop operations, and a materials testing laboratory. Of the 10 PRSs within the parcel, two were tentatively identified as subsurface units on the basis of historical photographs that showed open, but empty, trenches. It has now been demonstrated by the LANL ER Project that no disposal occurred in these trenches. The remaining eight PRSs are categorized as surface units and include a container storage area, potential soil contamination areas (some from sanitary septic systems) the former DP Road storage area, and the former DP tank farm.

There are 10 structures situated on the DP Road parcel. Six of these structures are storage sheds, and one is a transportainer. Two structures are currently being used by LANL as records storage facilities. Another structure is a backflow preventer, which is part of the County water supply system. It is assumed that the backflow preventer is essential to Los Alamos County infrastructure and, therefore, that it will be maintained for beneficial use upon transfer of the parcel. Consequently, D&D costs for this structure are not included in Tables 3.7.1 and 3.7.2, "Estimated Remedial Action and D&D Costs", which summarize the ER-related costs of preparing the DP Road parcel for transfer. D&D costs for this structure have been estimated only for information purposes, and can be found in Appendix A of this report.

Of the 10 PRSs in the DP Road parcel, nine have been sampled for characterization purposes. The results of such sampling are presented in Section 3.3, Extent of Contamination. Two of the PRSs were demonstrated to require no further action, and the DOE concurred with this recommendation. The remaining eight PRSs are either under investigation, or have been recommended for no further action. The regulatory status of all 10 PRSs is discussed in detail in Section 3.4, Regulatory Status.

### 3.3 Extent of Contamination

Sampling has been conducted at all ten of the PRSs located in this parcel. A summary of the sampling results is presented in Tables 3.3.1 and 3.3.2 for comparison to residential and industrial cleanup goals respectively. Under the residential future use scenario, several metals, 14 organic compounds, plutonium-239, and uranium-234 exceeded cleanup goals in one or more samples. Benzo(a)pyrene and arsenic exceeded goals the most often. However, natural levels of arsenic often exceed the calculated PRG. Under the industrial scenario, the analytes exceeding cleanup goals in one or more samples is limited to arsenic, lead, eight organic compounds, and uranium-234. These sampling locations are sporadically located around the parcel. One site, the DP tank farm on the northeast side of DP Road, remains under investigation.

**Table 3.3.1**  
**Contaminants Exceeding Region 9 Preliminary Remediation Goals (PRGs)**  
**Land Use Scenario: Commercial Development**

Contaminant	Industrial PRG	# Samples Collected	# Samples > PRG	Mean Conc. of Detects
Arsenic	3	84	10	2.1
Lead	1000	84	2	191
Arochlor-1260	1	97	1	0.41
Benzene	1.4	122	5	2.8
Benzo(a)pyrene	0.36	131	10	0.2
BHC[delta-]	NA <sup>32</sup>	67	NA	0.004
Ethylbenzene	230	122	2	62
Methylnaphthalene	55	131	6	35
Trimethylbenzene[1,2,4-]	170	122	14	88
Trimethylbenzene[1,2,5-]	70	122	11	26
Xylene (total)	210	108	10	194
Uranium-234	13	7	2	20

**Table 3.3.2**  
**Contaminants Exceeding Region 9 Preliminary Remediation Goals (PRGs)**  
**Land Use Scenario: Residential Development**

Contaminant	Residential PRG	# Samples Collected	# Samples > PRG	Mean Conc. of Detects
Arsenic	0.38	84	56	2.1
Cadmium	37	85	1	13
Copper	2800	85	2	128
Mercury	22	91	2	2.5
Lead	400	84	2	191
Arochlor-1260	1.0	97	1	0.41
Benzene	0.62	122	5	2.8
Benzo(a)anthracene	0.56	131	10	0.26
Benzo(a)pyrene	0.056	131	11	0.2
BHC[delta-]	NA	97	NA	0.0037
Chlordane[alpha-]	1.6	97	1	0.18
Chlordane[gamma-]	1.6	97	1	0.32
DDD[4,4'-]	2.4	93	1	1.1
Dibenz(a,h)anthracene	0.056	131	1	0.1
Ethylbenzene	230	122	2	62
Methylnaphthalene[2-]	55	131	6	35
Nitroso-di-n-propylamine[N-]	0.063	131	1	0.07
Trimethylbenzene[1,2,4-]	51	122	14	88
Trimethylbenzene[1,3,5-]	21	122	11	26
Xylene (total)	210	108	10	194
Plutonium-239	24	45	1	2.7
Uranium-234	13	7	2	20

### 3.4 Regulatory Status

Four of the 10 PRSs contained in the DP Road parcel are listed in the HSWA Module of LANL's RCRA permit. One of these PRSs is currently under investigation, and three have been recommended for no further action because they do not pose a risk to human health. The NMED is the AA for this permit, and must concur that no further action is

<sup>32</sup> Not available.

required at a PRS before it can be removed from the permit. The NMED has not yet concurred with the LANL ER Project's NFA recommendations for these three PRSs.

An additional six PRSs are not listed on the permit. One of these PRSs is currently under investigation. The remaining five PRSs have been proposed for no further action and DOE, which is the AA that must concur on a "no further action" recommendation for these PRSs, has concurred for two of the PRSs. No additional ER action at these two PRSs is necessary. Additional investigation might be required at the remaining four PRSs.

Presented below is a summary of the regulatory status of the PRSs within the bounds of this parcel.

**Table 3.4.1  
Summary of Regulatory Status**

PRS/Structure Type	Under Investigation	Recommended for Human Health NFA	NFA Concurrence by DOE	NFA Concurrence by NMED	Under Reconsideration	Recommended for Integrated NFA
Surface Units	2	6	-	-	-	-
Subsurface Units	-	-	1	-	1	-

**3.5 Other Concerns**

The parcel, as it is currently defined, extends to the bottom of DP Canyon to the north. The canyon sides and canyon bottoms are not topographically suited for commercial or residential development. The canyon bottoms will have to be characterized and, if necessary, remediated, prior to conveyance and transfer.

**3.6 Proposed Remedies by Type**

The proposed land uses for this parcel include commercial development and residential development. The remedies described for the 10 PRSs in this parcel were identified on the basis of these two land use scenarios, and reflect the estimated costs of the remedial actions necessary under each scenario for conveyance and transfer of this parcel. Table 3.6.1 summarizes the remedies proposed to be undertaken, given the land use scenario of commercial development. Table 3.6.2 summarizes the proposed remedies under a residential development land use scenario.

**Table 3.6.1  
Proposed Remedies by Type  
Land Use Scenario: Commercial Development**

PRS/Structure Type	Proposed Remedy			
	Removal	In Situ Treatment	In Situ Containment	No Action
Surface Units	4	-	2	2
Subsurface Units	-	-	-	2
Type II Structures	7	-	-	-
Type IV Structures	3	-	-	-
Canyons systems	-	-	-	1

**Table 3.6.2  
Proposed Remedies by Type  
Land Use Scenario: Residential Development**

PRS/Structure Type	Proposed Remedy			
	Removal	In Situ Treatment	In Situ Containment	No Action
Surface Units	4	-	2	2
Subsurface Units	-	-	-	2
Type II Structures	7	-	-	-
Type IV Structures	3	-	-	-
Canyons systems	-	-	-	1

### 3.7 Estimated Costs and Schedule

The following tables summarize the estimated costs and duration for the remedial activities within the DP Road parcel. The terms "estimated costs for completion" and "estimated duration" are defined in Section 1.4 of this report. Table 3.7.1 summarizes the costs and duration of remedial activities necessary to prepare the parcel for transfer under a land use scenario of commercial development. Table 3.7.2 summarizes the costs and duration of remedial activities necessary to prepare the parcel for transfer under a residential development land use scenario. PRS- and structure-specific information is included in Appendix A.

Note that there are almost always costs associated with the "no action" remedy. These reflect the costs of site characterization and reporting, which are necessary to justify a "no action" proposal.

**Table 3.7.1**  
**Estimated Remedial Action and D&D Costs and Estimated Duration**  
**Land Use Scenario: Commercial Development**

PRS/Structure Type/Other	Number of PRS/Structure Types	Estimated Costs for Completion (\$K)	Range in Estimated Durations for Individual PRSs and Structures (months)
Surface Units	8	7,613	6-70
Subsurface Units	2	778	9
Type II Structures	7	223	2
Type IV Structures	3	17,786	12.5
Canyons system	1	786	8
<b>Total</b>	-	26,986	-

**Table 3.7.2**  
**Estimated Remedial Action and D&D Costs and Duration**  
**Land Use Scenario: Residential Development**

PRS/Structure Type/Other	Number of PRS/Structure Types	Estimated Costs for Completion (\$K)	Range in Estimated Durations for Individual PRSs and Structures (months)
Surface Units	8	9,697	6-84
Subsurface Units	2	778	9
Type II Structures	7	223	2
Type IV Structures	6	17,786	12.5
Canyons system	1	786	8
<b>Total</b>	-	29,070	-

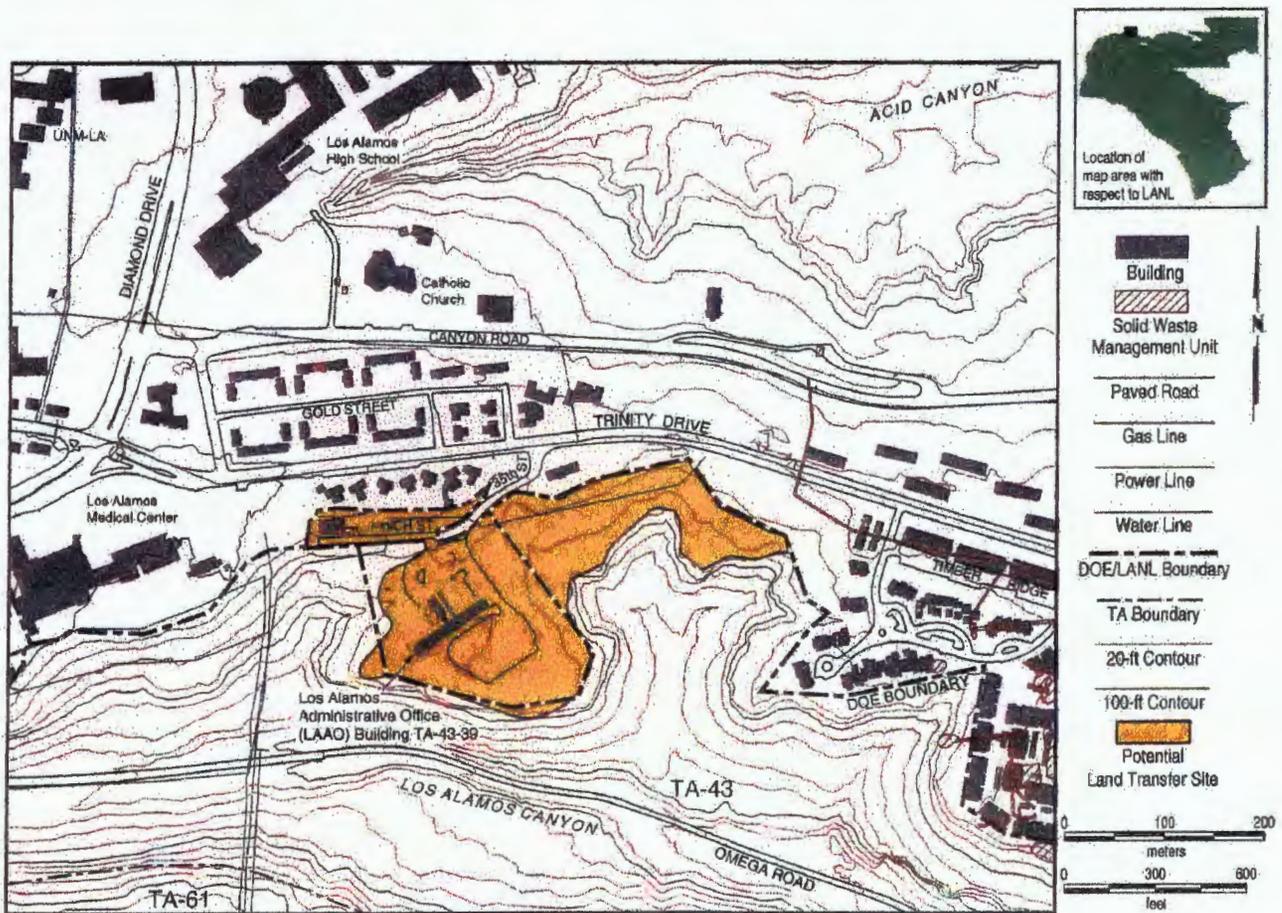


Figure 4.1 LAAO Site

## 4.0 DOE LAAO Parcel

### 4.1 Introduction

The site of the DOE Los Alamos Area Office is located in the Los Alamos town site between Los Alamos Canyon and Trinity Drive. Figure 4.1 illustrates the location of this parcel with respect to the western portion of the Los Alamos town site. The parcel is 12.9 acres and is accessed from Trinity Drive. The site is separated from Trinity Drive by privately owned land that fronts onto Trinity Drive. The site is just east of the Los Alamos Medical Center.

The two land uses proposed by the potential recipients of this parcel include commercial development and residential development.

## 4.2 Description of PRSs and Structures within the DOE LAAO Parcel

This parcel contains three PRSs and three LANL-numbered structures. There are no additional PRSs in proximity (i.e., within 50 feet) to the parcel. Figure 4.2 shows the locations of the PRSs and structures within the parcel. Two of the three PRSs are associated with operations of LANL's steam plant; one was a product storage area and the other was an underground storage tank that received steam and condensed water from the steam plant's boilers. These PRSs are categorized as a surface unit and a subsurface unit, respectively. The third PRS is a sanitary septic system that is believed to have served a mess hall, dormitories, barracks, a military post office, and the Sundt apartments along Finch Street. It is classified as an outfall.

There are three structures situated on the DOE LAAO parcel. The largest structure currently serves as DOE's Los Alamos Area Office. A second structure is a Los Alamos County pump station, and the third structure is the steam plant. The costs of D&D have been estimated for the LAAO office building under the residential land use scenario. It is assumed that the steam plant will be demolished under both land use scenarios. The pump station is essential to the utility infrastructure in Los Alamos County, and the assumption is that it will be retained under both land use scenarios.

The three PRSs within this parcel have been sampled for characterization purposes. Additional confirmation sampling was conducted at the septic tank after it was removed in 1996. The results of these sampling efforts are presented in Section 4.3, Extent of Contamination.

## 4.3 Extent of Contamination

The three PRSs in this parcel have been sampled, and the results are presented in Tables 4.3.1 and 4.3.2 for the commercial and residential future use scenarios respectively. Ten organic compounds exceeded residential cleanup goals and seven organic compounds exceeded industrial cleanup goals. Benzo(a)pyrene exceed cleanup goals in about 30% of the samples.

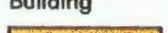
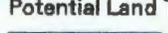
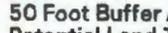
**Table 4.3.1**  
**Contaminants Exceeding Region 9 Preliminary Remediation Goals (PRGs)**  
**Land Use Scenario: Commercial Development**

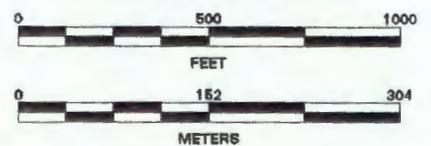
Contaminant	Industrial PRG (mg/kg)	# Samples Collected	# Samples > PRG	Mean Conc. of Detects (mg/kg)
Benzo(a)anthracene	3.6	27	3	9.4
Benzo(a)pyrene	0.36	27	8	9.3
Benzo(b)fluoranthene	3.6	27	5	13.2

Figure 4.2: LAAO Site



Location of map area with respect to LANL

-  Boundary, TA
-  Contour, 20 foot
-  Road, Paved
-  Building
-  Potential Land Transfer Site
-  50 Foot Buffer Around Potential Land Transfer Site
-  Potential Release Site



State Plane Coordinate System, New Mexico Central Zone, 1983 North American Datum

NOTICE: The information on this map is provisional. Feature locations are dependent on scale and symbology and their accuracy may not have been confirmed. Data are from various sources and are part of the FIMAD repository.

**Table 4.3.1 (continued)**  
**Contaminants Exceeding Region 9 Preliminary Remediation Goals (PRGs)**  
**Land Use Scenario: Commercial Development**

Contaminant	Industrial PRG (mg/kg)	# Samples Collected	# Samples > PRG	Mean Conc. of Detects (mg/kg)
Benzo(k)fluoranthene	36	27	1	15.2
Dibenz(a,h)anthracene	0.36	27	1	1.1
Dichlorobenzene[1,4-]	7.3	39	1	35.1
Indeno(1,2,3-cd)pyrene	3.6	27	3	5.9

**Table 4.3.2**  
**Contaminants Exceeding Region 9 Preliminary Remediation Goals (PRGs)**  
**Land Use Scenario: Residential Development**

Contaminant	Residential PRG (mg/kg)	# Samples Collected	# Samples > PRG	Mean Conc. of Detects (mg/kg)
Benzo(a)anthracene	0.56	27	6	9.4
Benzo(a)pyrene	0.056	27	9	9.3
Benzo(b)fluoranthene	0.56	27	8	13.2
Benzo(k)fluoranthene	5.6	27	4	15.2
Chrysene	56	27	1	7.6
Dibenz(a,h,)anthracene	0.056	27	1	1.1
Dichlorobenzene[1,4-]	3	39	1	35.1
Indeno(1,2,3-cd)pyrene	0.56	27	5	5.9

#### 4.4 Regulatory Status

Two of the PRSs contained in the DOE LAAO parcel are listed in the HSWA Module of LANL's RCRA permit. The NMED is the AA for this permit, and must concur that no further action is required at a PRS before the PRS can be removed from the permit. These two PRSs have been recommended for NFA because it is believed they do not pose a risk to human health. The NMED has not yet concurred with the LANL ER Project's NFA recommendations for these two PRSs. The remaining PRS is not listed on the permit. It has also been recommended for NFA on the basis of human health risk. The DOE, which is the AA that must concur on a "no further action" recommendation for this site, has not yet concurred.

Presented below is a summary of the regulatory status of the PRSs within the bounds of this parcel.

**Table 4.4.1  
Summary of Regulatory Status**

PRS/Structure Type	Under Investigation	Recommended for Human Health NFA	NFA Concurrence by DOE	NFA Concurrence by NMED	Under Reconsideration	Recommended for Integrated NFA
Surface Unit	-	1	-	-	-	-
Subsurface Unit	-	1	-	-	-	-
Outfall	-	1	-	-	-	-

#### 4.5 Other Concerns

There are no other environmental restoration or D&D concerns related to this parcel.

#### 4.6 Proposed Remedies by Type

The two proposed land uses for this parcel are commercial development and residential development. The remedies described for the three PRSs in this parcel were identified on the basis of these two land use scenarios, and reflect the estimated costs of the remedial actions necessary under each scenario for conveyance and transfer of this parcel. It is possible that, under the commercial development scenario, the DOE LAAO building could be put to beneficial use, and so D&D costs are not included for this structure in Table 4.7.1, "Estimated Remedial Action and D&D Costs and Durations – Commercial Land Use Scenario"<sup>33</sup>. It is assumed that this building will be demolished under the residential land use scenario. It is also assumed that the steam plant will be demolished under both land use scenarios, and that the pump station will be retained under both scenarios. Table 4.6.1 summarizes the remedies proposed to be undertaken, given the land use scenario of commercial development. Table 4.6.2 summarizes the proposed remedies under a residential development land use scenario.

**Table 4.6.1  
Proposed Remedies by Type  
Land Use Scenario: Commercial Development**

PRS/Structure Type	Proposed Remedy			
	Removal	In Situ Treatment	In Situ Containment	No Action
Surface Unit	1	-	-	-
Subsurface Unit	1	-	-	-
Outfall	1	-	-	-
LAAO Building <sup>34</sup>	-	-	-	1
Type IV Structures	1	-	-	1

<sup>33</sup> Because the DOE LAAO building is currently being used as office space, the DOE assumes that this structure can be transferred "as is", with no associated costs for modifying or upgrading the structure.

<sup>34</sup> The LANL D&D Project has characterized this structure sufficiently to develop an actual D&D cost estimate for it, that falls outside of the parametric cost estimates associated with the Type I-VI D&D categories.

**Table 4.6.2**  
**Proposed Remedies by Type**  
**Land Use Scenario: Residential Development**

PRS/Structure Type	Proposed Remedy			
	Removal	In Situ Treatment	In Situ Containment	No Action
Surface Unit	1	-	-	-
Subsurface Unit	1	-	-	-
Outfall	1	-	-	-
LAO Building	1	-	-	-
Type IV Structures	1	-	-	1

#### 4.7 Estimated Costs and Schedule

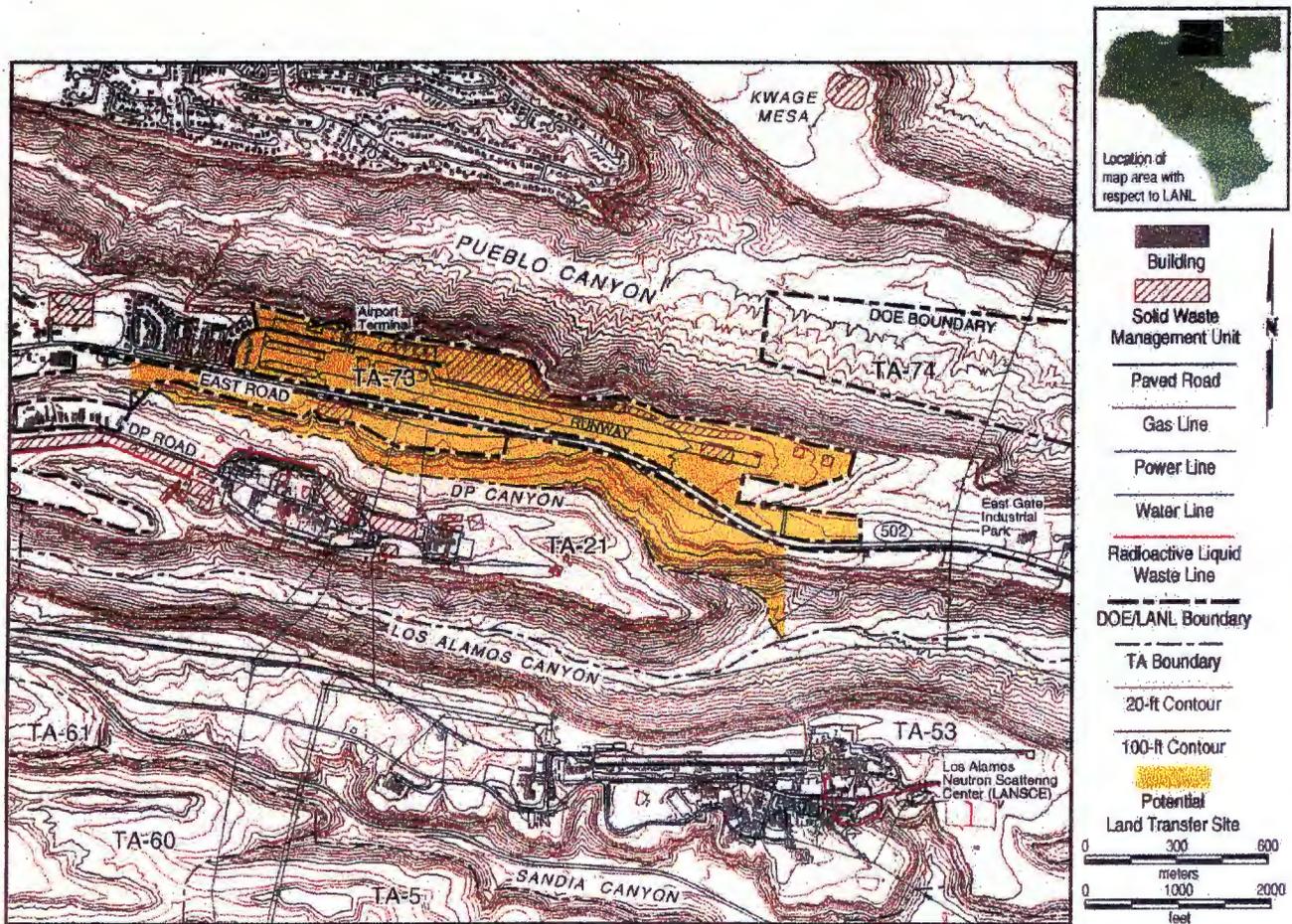
The following tables summarize the estimated costs and duration for the remedial activities within the DOE LAO parcel. The terms "estimated cost of completion" and "estimated duration" are defined in Section 1.4 of this report. Table 4.7.1 summarizes the costs and duration of remedial activities necessary to prepare the parcel for transfer under a land use scenario of commercial development. Table 4.7.2 summarizes the costs and duration of remedial activities necessary to prepare the parcel for transfer under a residential development land use scenario. PRS- and structure-specific information is included in Appendix A.

**Table 4.7.1**  
**Estimated Remedial Action and D&D Costs and Duration**  
**Land Use Scenario: Commercial Development**

PRS/Structure Type/Other	Number of PRS/Structure Types	Estimated Costs for Completion (\$K)	Range in Estimated Durations for Individual PRSs and Structures (months)
Surface Units	1	469	11
Subsurface Units	1	727	18
Outfalls	1	602	12
Type IV Structures	1	2,455	24
<b>Total</b>	-	4,253	-

**Table 4.7.2**  
**Estimated Remedial Action and D&D Costs and Duration**  
**Land Use Scenario: Residential Development**

PRS/Structure Type/Other	Number of PRS/Structure Types	Estimated Costs for Completion (\$K)	Range in Estimated Durations for Individual PRSs and Structures (months)
Surface Units	1	616	11
Subsurface Units	1	837	18
Outfalls	1	602	12
LAO Building	1	5,170	9
Type IV Structures	1	2,455	24
<b>Total</b>	-	9,680	-



**Figure 5.1** **Airport**

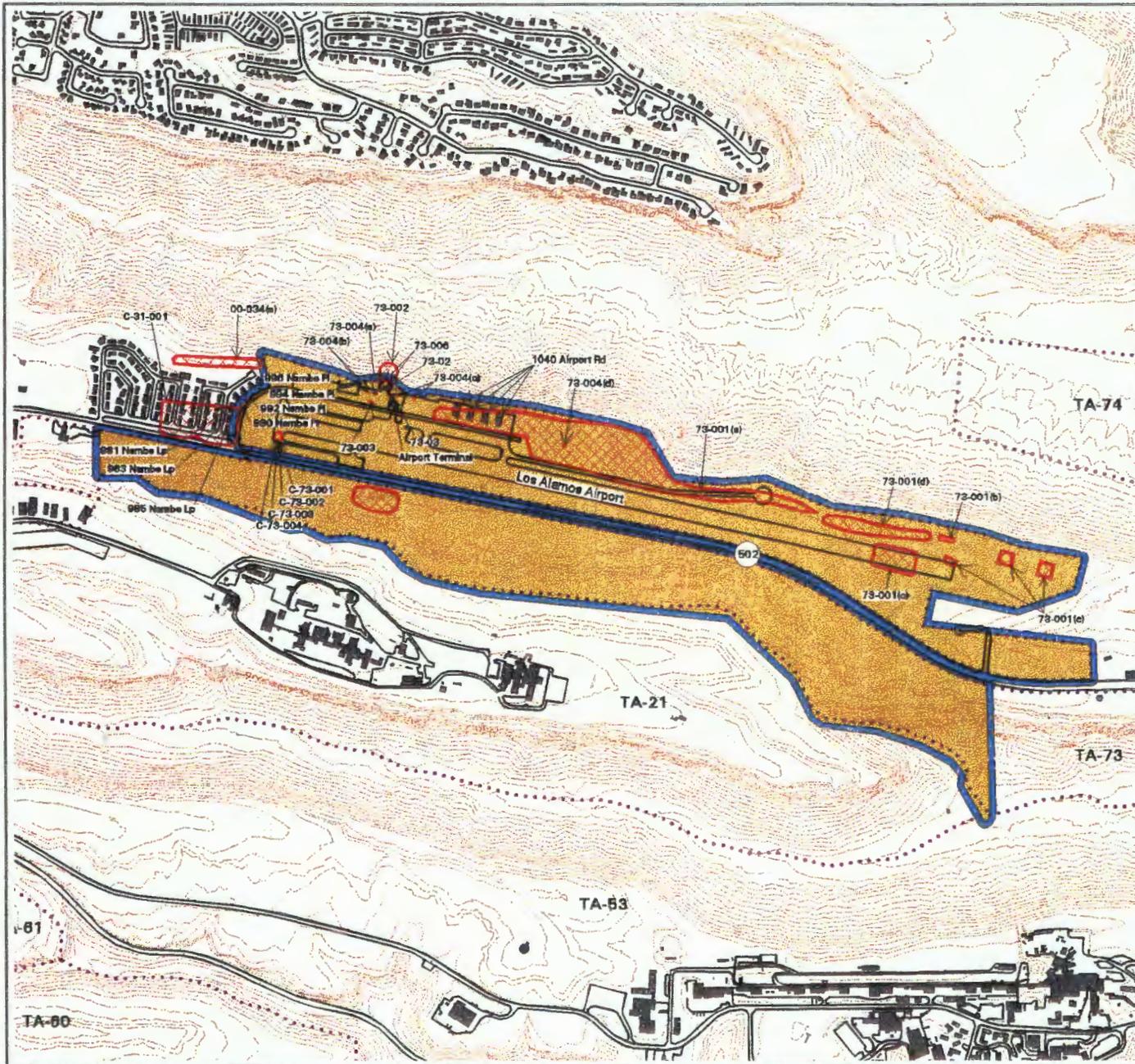
## 5.0 Airport Parcel

### 5.1 Introduction

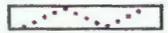
The Airport parcel is a 198-acre site, located east of the Los Alamos town site on the northeastern edge of the mesa above Pueblo Canyon. Figure 5.1 illustrates the location of this parcel with respect to the eastern portion of the Los Alamos town site. A single-family residential development borders the western boundary, and East Gate Park and East Gate Business Park are located east of the site. To the north is Pueblo Canyon, and to the south is the main hill road leading into the town site, with the Los Alamos Canyon just south of the road. State Route 502 is the main entrance to the community of Los Alamos, and the airport is almost the first development one passes upon entering the town site.

The land uses proposed by the potential land recipients include commercial and industrial development and, possibly, retention of the airport.

Figure 5.2: Airport



Location of map area with respect to LANL



Boundary, TA



Contour, 20 foot



Road, Paved



Building



Potential Land Transfer Site



50 Foot Buffer Around Potential Land Transfer Site



Potential Release Site



State Plane Coordinate System, New Mexico Central Zone, 1983 North American Datum

NOTICE: The information on this map is provisional. Feature locations are dependent on scale and symbology and their accuracy may not have been confirmed. Data are from various sources and are part of the FIMAD repository.

## 5.2 Description of PRSs and Structures within the Airport Parcel

This parcel contains 24 PRSs, and there is one additional PRS located in proximity (i.e., within a 50-foot buffer) of the parcel. The parcel also contains four structures. Figure 5.2 shows the locations of the PRSs and structures within the parcel. The 25 PRSs include six material disposal areas (MDAs), eight subsurface units, and 16 surface units.

The four structures include the airport terminal building; a storage building and a storage shed, which are both associated with airport operations; and a gas meter station. The gas meter station is essential for utilities, and it is assumed that it would be retained under the proposed land use scenario. It is also assumed that airport operations will continue after the parcel is transferred. Consequently, D&D costs for the terminal building, the storage building, the storage shed, and the gas meter are not included in Table 5.7.1, "Estimated Remedial Action and D&D Costs and Estimated Durations". D&D costs have been estimated for these structures for information purposes only, and can be found in Appendix A of this report.

Of the 25 PRSs within or in proximity to this parcel, characterization sampling has been performed at 19 of them. The results of such sampling are presented and discussed in Section 5.3, Extent of Contamination. Remediation activities have been conducted at two of the Airport parcel PRSs, and these PRSs, as well as an additional five, have been proposed for NFA because they pose no risk to human health. The remaining 18 of the PRSs are under investigation. The regulatory status of all of the parcel's PRSs is presented in Section 5.4, Regulatory Status.

## 5.3 Extent of Contamination

Some of the PRSs in this parcel have been sampled and, in particular, a substantial amount of sampling has been performed at the airport landfill. The results of compounds exceeding cleanup goals are summarized in Table 5.3.1 for an industrial future use. Arsenic, lead, iron, and five organic compounds exceeded PRGs in one or more samples. The organic compounds exceeded cleanup goals in less than five percent of the samples, except for two dioxin compounds. The lead and arsenic were detected much more frequently above cleanup goals. However, natural levels of arsenic in the Los Alamos area are frequently above the industrial PRG. This area is currently under continuing investigation to determine what remedies are appropriate for the sites located here.

**Table 5.3.1**  
**Contaminants Exceeding Region 9 Preliminary Remediation Goals (PRGs)**  
**Land Use Scenario: Commercial Development**

Contaminant	Industrial PRG (mg/kg)	# Samples Collected	# Samples > PRG	Mean Conc. of Detects (mg/kg)
Arsenic	3	184	39	7.2
Iron	100,000	167	8	16,684
Lead	1000	184	14	333
Arochlor-1254	1.0	149	2	1.3
Benzo(a)pyrene	0.36	158	5	0.36
DDT[4,4'-]	13	148	1	1.5
Heptachlorodibenzodioxins (total)	0.00003	5	2	0.00072
Octachlorodibenzodioxin	0.00003	5	4	0.002

## 5.4 Regulatory Status

Eleven of the 25 PRSs contained in or in proximity to the airport parcel are listed in the HSWA Module of LANL's RCRA permit. Seven of the eleven PRSs listed on the permit are currently under investigation. The NMED is the AA for this permit, and must concur that no further action is required at a PRS before the PRS can be removed from the permit. The NMED has not yet concurred with the LANL ER Project's NFA recommendations for the remaining four PRSs listed on the permit. Fourteen PRSs are not listed on the permit. The LANL ER Project has made NFA recommendations on five of these PRSs and DOE, which is the AA that must concur on a "no further action" recommendation, has concurred on all five of them. No additional ER action at these five PRSs is necessary. The remaining nine PRSs are currently under investigation.

Presented below is a summary of the regulatory status of the PRSs within the bounds of this parcel.

**Table 5.4.1  
Summary of Regulatory Status**

PRS/Structure Type	Under Investigation	Recommended for Human Health NFA	NFA Concurrence by DOE	NFA Concurrence by NMED	Under Reconsideration	Recommended for Integrated NFA
MDAs	6	-	-	-	-	-
Surface Units	4	-	1	-	-	-
Subsurface Units	4	-	4	-	-	-
Outfalls	2	4	-	-	-	-

## 5.5 Other Concerns

The parcel, as it is currently defined, extends to the bottom of DP Canyon to the south, and Pueblo Canyon to the north. The canyon sides and canyon bottoms are not topographically suited for industrial or commercial development. The canyon bottoms will have to be characterized and, if necessary, remediated, prior to conveyance and transfer. There are no other environmental restoration or D&D concerns related to this parcel.

## 5.6 Proposed Remedies by Type

The proposed use for this parcel by the potential land recipients is commercial development. The remedies described for the 25 PRSs in this parcel were identified on the basis of this land use scenario, and reflect the estimated costs of the remedial actions necessary under this scenario for conveyance and transfer of this parcel. It is assumed in this and the following sections that the airport terminal building, storage building, and storage shed will continue to be put to beneficial use after the parcel is

transferred<sup>35</sup>. Table 5.6.1 summarizes the remedies proposed to be undertaken, given the land use scenario of commercial development.

**Table 5.6.1  
Proposed Remedies by Type  
Land Use Scenario: Commercial Development**

PRS/Structure Type	Proposed Remedy			
	Removal	In Situ Treatment	In Situ Containment	No Action
MDAs	6	-	-	-
Surface Units	2	-	2	1
Subsurface Units	-	-	4	4
Outfalls	1	-	4	1
Type II Structures	-	-	-	2
Type IV Structures	-	-	-	2

## 5.7 Estimated Costs and Schedule

The following table summarizes the estimated costs and duration for the remedial activities within the Airport parcel that are necessary to prepare the parcel for transfer under a land use scenario of commercial development. The terms "estimated costs for completion" and "estimated duration" are defined in Section 1.4 of this report. PRS- and structure-specific information on remedies is included in Appendix A.

Note that there are almost always costs associated with the "no action" remedy. These reflect the costs of site characterization and reporting, which are necessary to justify a "no action" proposal.

Note also that costs are not included for characterizing and, if necessary, remediating the portion of DP canyon that falls within the Airport parcel. Because the Airport parcel shares its boundary with the TA-21 parcel within DP Canyon, the canyons characterization and remediation costs are included only in the TA-21 cost estimate to eliminate double counting.

**Table 5.7.1  
Estimated Remedial Action and D&D Costs and Estimated Duration  
Land Use Scenario: Commercial Development**

PRS/Structure Type/Other	Number of PRS/Structure Types	Estimated Costs for Completion (\$K)	Range in Estimated Durations for Individual PRSs and Structures (months)
MDAs	6	814	19
Surface Units	5	13,621	13-24
Subsurface Units	8	13,105	1-75
Outfalls	6	677	1-17
<b>Total</b>	-	<b>28,217</b>	-

<sup>35</sup> The DOE assumes that because these three structures currently support commercial activity, they can be transferred "as is", with no associated costs for modification or upgrade.

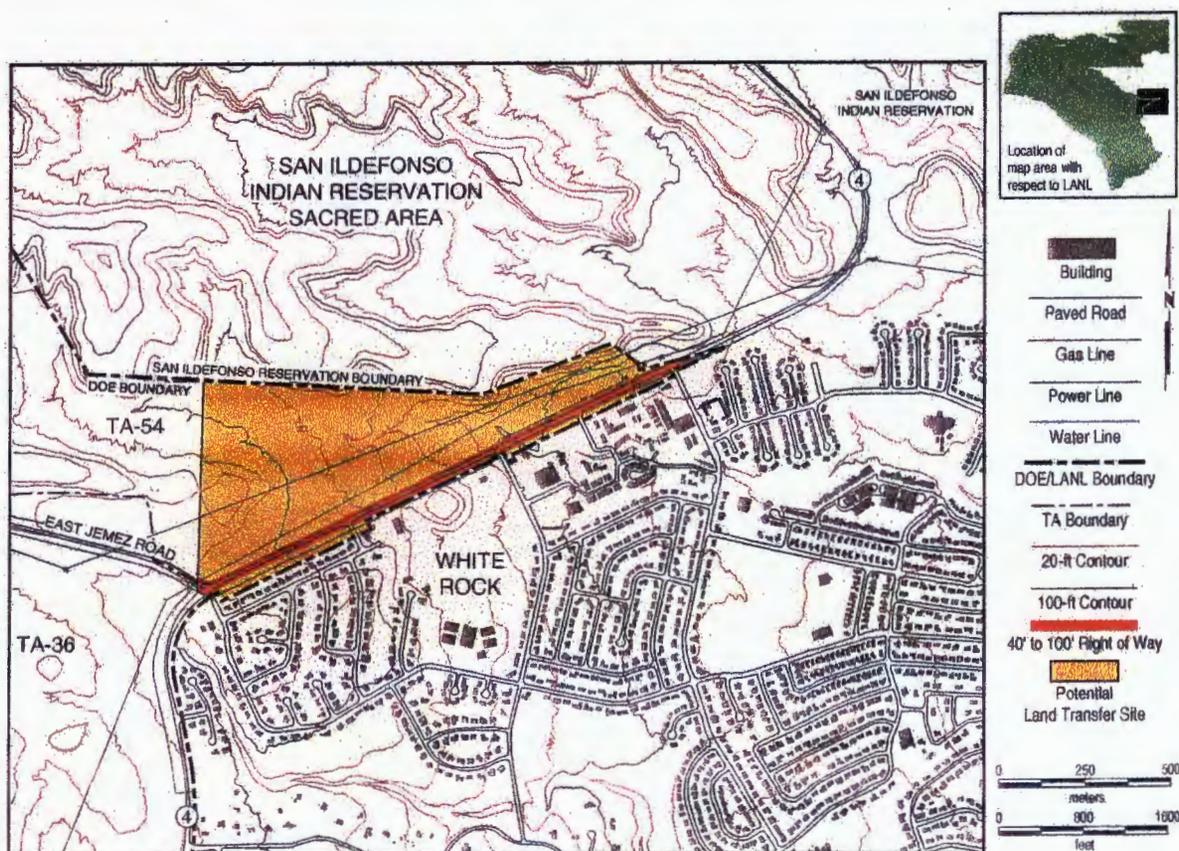


Figure 6.1 White Rock Site

## 6.0 White Rock Parcel

### 6.1 Introduction

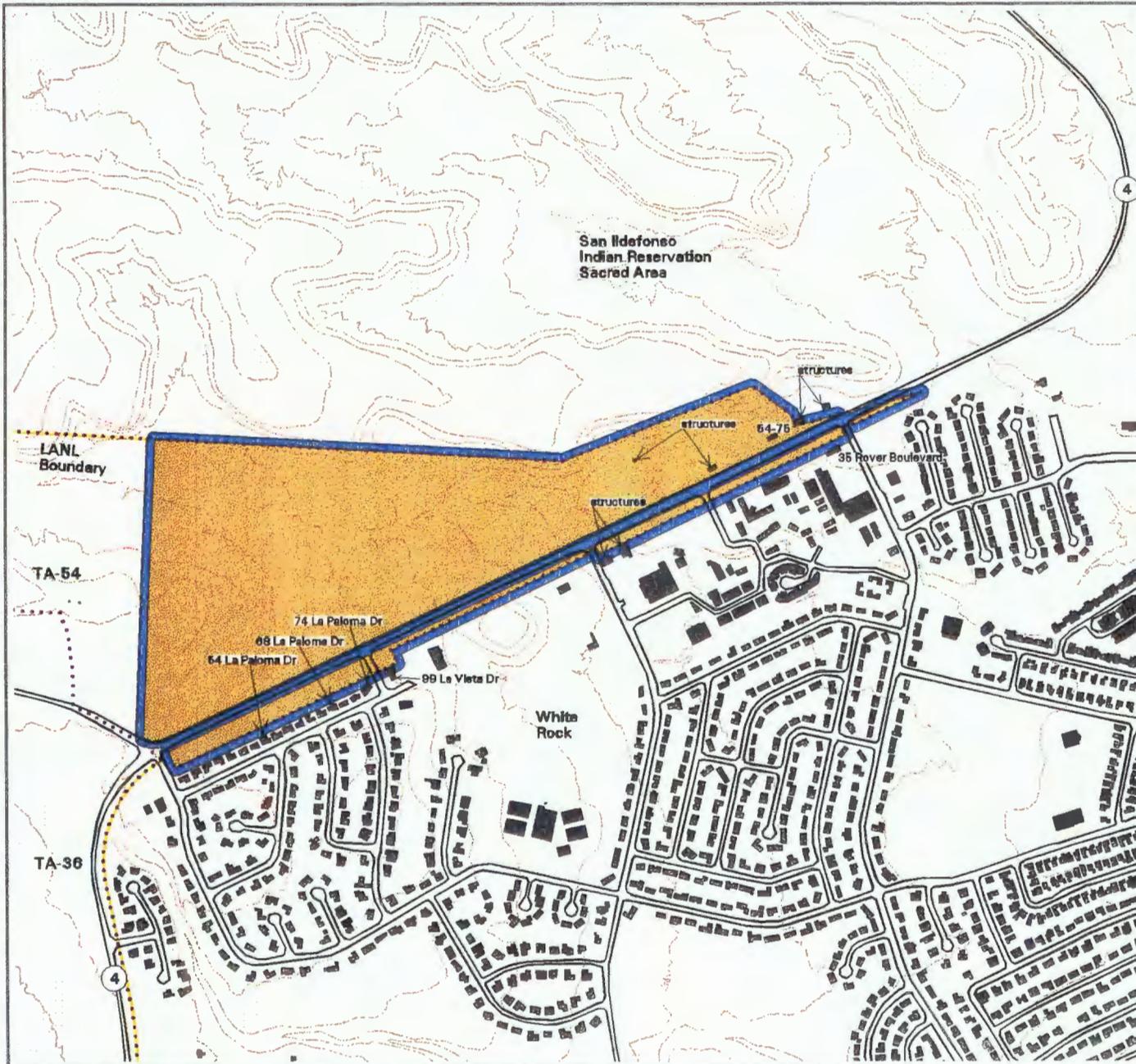
The White Rock Parcel is located north of the Pajarito Acres residential development and west of the White Rock residential community; it lies within the lower reaches of Canada del Buey. Figure 6.1 illustrates the location of the parcel with respect to the community of White Rock. The site consists of 98.7 acres and is undeveloped except for utility lines and a water pump station.

The two proposed land uses by the potential land recipients include residential development, and a combination of cultural preservation and commercial development.

### 6.2 Description of PRSs and Structures within the White Rock Parcel

There are no PRSs located within or in proximity to (i.e., within 50 feet of the boundary) the White Rock parcel. One LANL numbered structure is located within the parcel: a pump station that is part of the water supply system that DOE leased to Los Alamos County in 1998. Figure 6.2 shows the location of the pump station within the parcel. The ER Project assumes that this structure will remain intact and in beneficial use after the

Figure 6.2: White Rock Site



Location of map area with respect to LANL

Boundary, TA

Contour, 20 foot

Road, Paved

Building

50 Foot Buffer Around

Potential Land Transfer Site



0 1000 2000  
FEET

0 305 610  
METERS

State Plane Coordinates System, New Mexico Central Zone, 1983 North American Datum

NOTICE: The information on this map is provisional. Feature locations are dependent on scale and symbology and their accuracy may not have been confirmed. Data are from various sources and are part of the FIMAD repository.

transfer of this parcel. Consequently, the costs of D&D are not included in Tables 6.7.1 and 6.7.2, "Estimated Remedial Action and D&D Costs and Durations" for the preservation and residential land use scenarios, respectively. D&D costs for this structure have been estimated for information purposes only, and can be found in Appendix A of this report.

### 6.3 Extent of Contamination

To date, the LANL ER Project has not sampled either within this parcel or upstream in Canada del Buey. Therefore, the extent of any potential surface site contamination is unknown.

### 6.4 Regulatory Status

Although there are no PRSs within the White Rock parcel, the NMED is the Administrative Authority AA for LANL's canyon systems, and must concur that no further action is required within such a system or systems before ER activity can be considered complete.

Presented below is a summary of the regulatory status of the canyon systems within the bounds of this parcel.

**Table 6.4.1  
Summary of Regulatory Status**

PRS/Other	Under Investigation	Recommended for Human Health NFA	NFA Concurrence by DOE	NFA Concurrence by NMED	Under Reconsideration	Recommended for Integrated NFA
Canyons systems	1	-	-	-	-	-

### 6.5 Other Concerns

Although there are no PRSs within this parcel, environmental contamination could be of concern in the portion of it that lies within the stream channel and flood plain of Canada del Buey. There has been only limited sampling in Canada del Buey by the Laboratory's Environmental Surveillance Program. These samples have detected uranium and plutonium in sediments and, in 1997, showed a possible detect of strontium-90 in the shallow groundwater upstream of the parcel. However, the level was not high enough above the detection limit to be certain that strontium-90 was, indeed, present.

Although additional sampling might be warranted to more fully characterize the nature and extent of contamination in the stream channel of Canada del Buey, the limited sampling conducted to date indicates that the existing levels of contamination are well below levels that would elicit health concerns. The levels of contaminants that exist today are expected only to decrease over time even though there are still active Laboratory operations upstream of the parcel. This is because such operations are now

subject to existing State and federal environmental regulations, which require the rigorous management of materials and wastes, and limit the levels of contaminants that can be released either from discharge points or from stormwater runoff. Moreover, existing contamination in sediments will be dispersed over time by stream flow. It is not known whether the existing contamination of sediments and spring waters could limit their use as sources for cultural [medicinal and artistic] uses and ceremonial use, even with contamination levels orders of magnitude below those eliciting health concerns.

**6.6 Proposed Remedies by Type**

The two proposed uses for this parcel include residential development, and a combination of cultural preservation and commercial development. The remedies described for the portions of the canyon systems located within this parcel were identified on the basis of the two land use scenarios expected to require the least and the most cleanup, respectively, and reflect the estimated costs of the remedial actions necessary under each scenario for conveyance and transfer of this parcel.

The DOE acknowledges that a proposed land use of cultural preservation requires many factors to be considered, and that a balance must be struck between these factors. For example, the balance must be weighed between preservation of cultural resources and ecosystems, and the disruption resulting from remediation activities to reduce residual contamination. The DOE recognizes that each of these (and other) factors might be of greater or lesser importance to each of the potential land recipients, and that the remedies proposed in this report might have to be modified to make a particular parcel acceptable to its recipient.

Table 6.6.1 summarizes the remedies proposed to be undertaken, given the land use scenario of cultural preservation. Table 6.6.2 summarizes the proposed remedies under a residential development land use scenario.

**Table 6.6.1  
Proposed Remedies by Type  
Land Use Scenario: Cultural Preservation**

PRS/Structure Type	Proposed Remedy			
	Removal	In Situ Treatment	In Situ Containment	No Action
Type IV Structure	-	-	-	1
Canyons systems	-	-	-	1

**Table 6.6.2  
Proposed Remedies by Type  
Land Use Scenario: Residential Development**

PRS/Structure Type	Proposed Remedy			
	Removal	In Situ Treatment	In Situ Containment	No Action
Type IV Structure	-	-	-	1
Canyons systems	1	-	-	1

## 6.7 Estimated Costs and Schedule

The following tables summarize the estimated costs and duration for the remedial activities within the White Rock parcel. The terms "estimated costs for completion" and "estimated duration" are defined in Section 1.4 of this report. Table 6.7.1 summarizes the estimated costs and duration of remedial activities necessary to prepare the parcel for transfer under a land use scenario of cultural preservation. Table 6.7.2 summarizes the estimated costs and duration of remedial activities necessary to prepare the parcel for transfer under a residential development land use scenario.

Note that there are almost always costs associated with the "no action" remedy. These reflect the costs of site characterization and reporting, which are necessary to justify a "no action" proposal.

**Table 6.7.1**  
**Estimated Remedial Action and D&D Costs and Duration**  
**Land Use Scenario: Cultural Preservation**

PRS/Structure Type/Other	Number of PRS/Structure Types	Estimated Costs for Completion (\$K)	Estimated Duration (months)
Canyons systems	1	954	16

**Table 6.7.2**  
**Estimated Remedial Action and D&D Costs and Duration**  
**Land Use Scenario: Residential Development**

PRS/Structure Type/Other	Number of PRS/Structure Types	Estimated Costs for Completion (\$K)	Estimated Duration (months)
Canyons systems	1	3,374	24

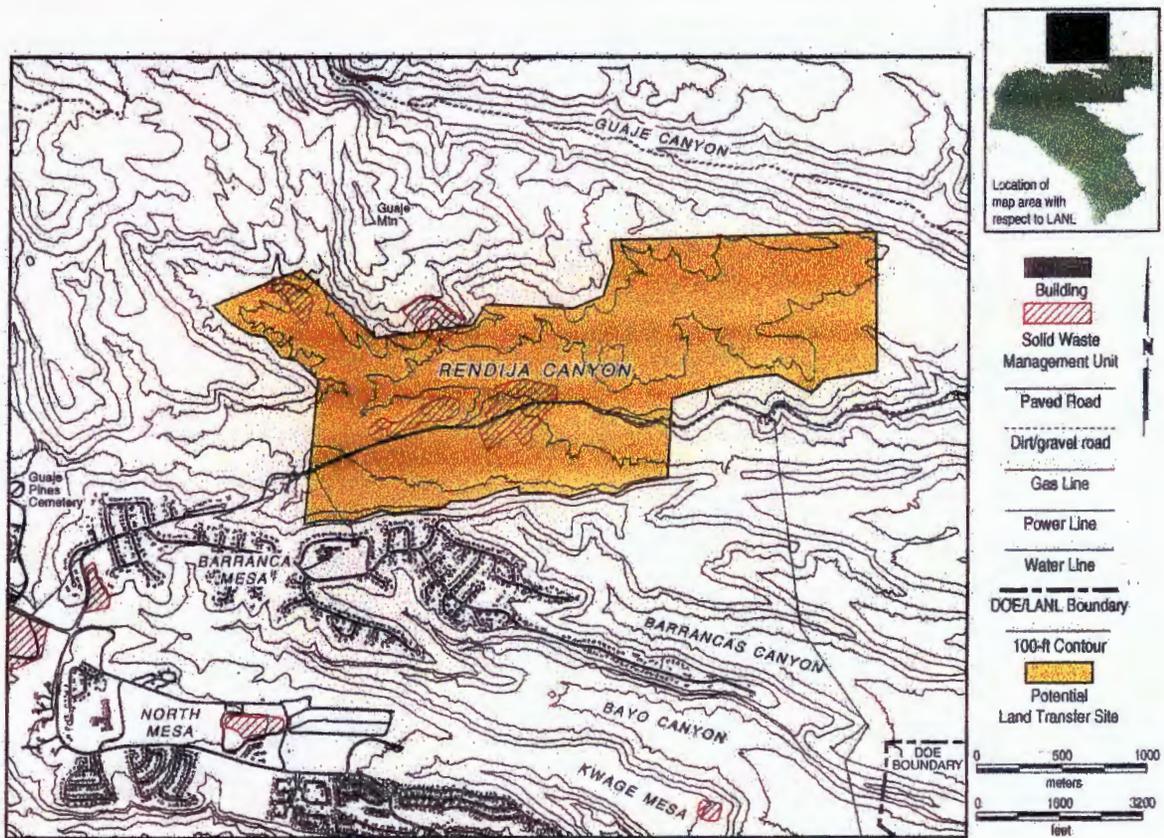


Figure 7.1 Rendija Canyon Site

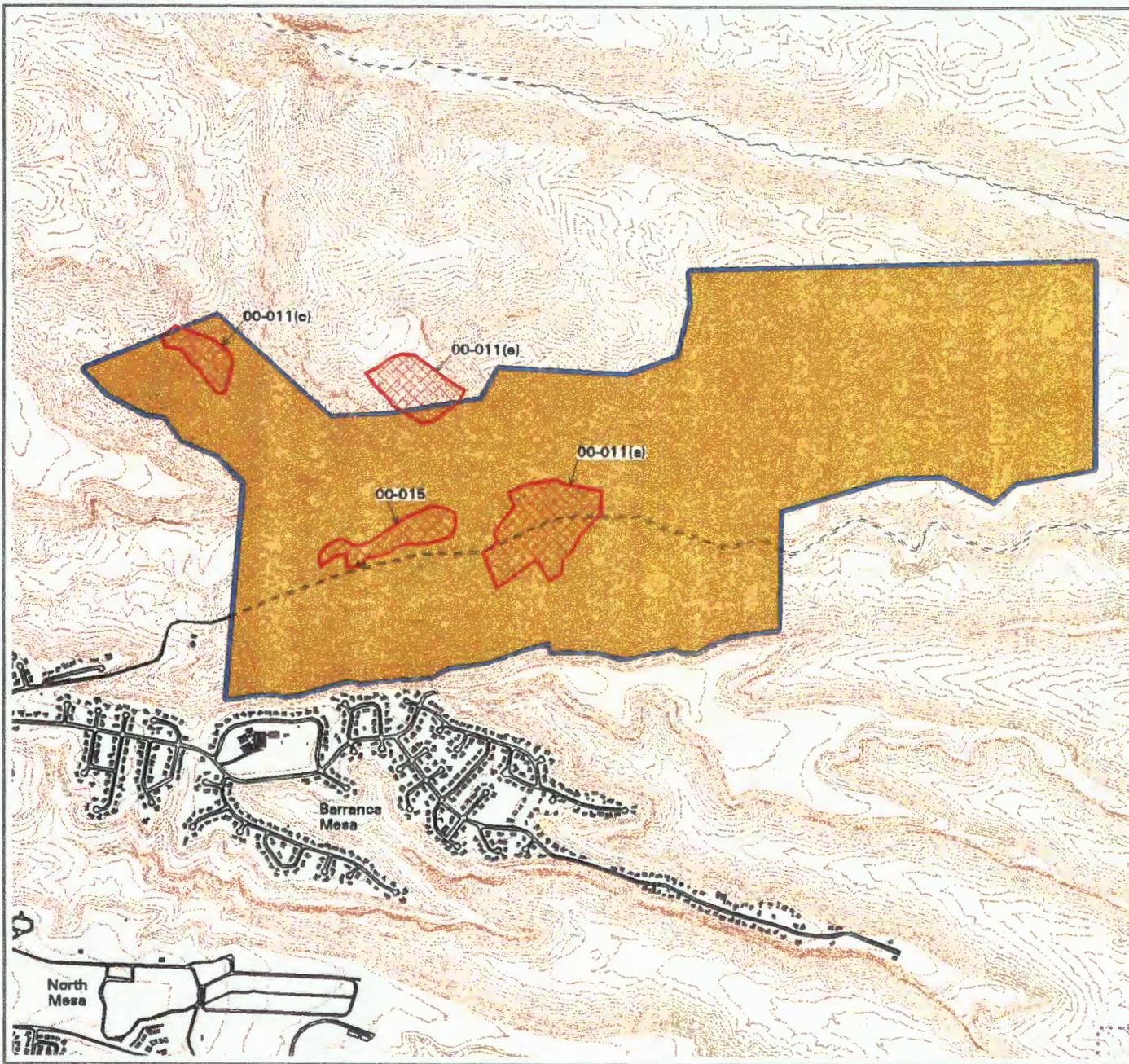
## 7.0 Rendija Canyon Parcel

### 7.1 Introduction

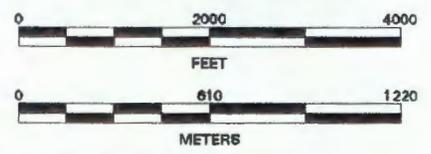
The Rendija Canyon Parcel consists of 908.7 acres and is located north of and below Los Alamos town site's Barranca Mesa residential subdivision. Figure 7.1 illustrates the location of this parcel with respect to the northernmost residential areas of the Los Alamos town site. An unpaved road extending from Barranca Road to the east bisects the bottom third of the site. This site is undeveloped except for a shooting range that serves the local community; the shooting range is located on land that is currently under lease from the DOE to the Los Alamos Sportsman's Club.

The two proposed land uses by the potential recipients of the parcel are cultural and environmental preservation, and residential development.

Figure 7.2: Rendija Canyon Site



-  Boundary, TA
-  Contour, 20 foot
-  Road, Dirt
-  Road, Paved
-  Building
-  Potential Land Transfer Site
-  50 Foot Buffer Around Potential Land Transfer Site
-  Potential Release Site



State Plane Coordinates System, New Mexico Central Zone, 1983 North American Datum

NOTICE: The information on this map is provisional. Feature locations are dependent on scale and symbology and their accuracy may not have been confirmed. Data are from various sources and are part of the FIMAD repository.

## **7.2 Description of PRSs and Structures within the Rendija Canyon Parcel**

This parcel contains four PRSs and no LANL-numbered structures. There are no additional PRSs or structures within a 50-foot buffer surrounding the parcel. Figure 7.2 shows the locations of the PRSs within the parcel. The four PRSs are all historical-use mortar impact areas that were used by the army between 1944 and 1948. All four PRSs are categorized as surface units. The LANL ER Project has conducted sampling for characterization purposes at all four PRSs and the results are presented in Section 7.3, Extent of Contamination. Of the four PRSs in this parcel, the LANL ER Project has recommended one for NFA and received concurrence on this recommendation from DOE. However, this recommendation was made based on the land remaining under the institutional control of LANL. Therefore, for the purpose of this report, the DOE assumes that further action will be required at this PRS. The ER Project has recommended the remaining three for NFA; however, the NMED has not concurred with this recommendation. More detail is presented in Section 7.4, Regulatory Status.

Because DOE maintains no structures within the Rendija Canyon parcel, no D&D activity is required to prepare this parcel for conveyance and transfer.

## **7.3 Extent of Contamination**

Three of the four PRSs in the parcel have been sampled for environmental contamination, and the results show that no contamination exists above cleanup levels appropriate for either preservation or residential development. Although there are no unacceptable human health-based or ecologically-based risks associated with environmental contamination in the Rendija Canyon parcel, there may be safety risks associated with unexploded ordnance. This situation is discussed in detail in Section 7.5, Other Concerns.

## **7.4 Regulatory Status**

Three of the PRSs contained in this parcel are listed in the HSWA Module of LANL's RCRA permit. The NMED is the AA for this permit, and must concur that no further action is required at a PRS before the PRS can be removed from the permit. The NMED has not yet concurred with the LANL ER Project's NFA recommendations for these three PRSs. The remaining PRS is not listed on the permit and DOE, which is the AA that must concur on a "no further action" recommendation for this site, has concurred. However, since concurrence was based on the assumption that this property would remain under the institutional control of LANL, the DOE assumes, for the purpose of this report, that additional action might be necessary at the PRS to prepare the parcel for transfer.

Presented below is a summary of the regulatory status of the PRSs within the bounds of this parcel.

**Table 7.4.1  
Summary of Regulatory Status**

PRS/Structure Type	Under Investigation	Recommended for Human Health NFA	NFA Concurrence by DOE	NFA Concurrence by NMED	Under Reconsideration	Recommended for Integrated NFA
Surface Units	-	3	1	-	-	-

## 7.5 Other Concerns

There were no historical Laboratory operations conducted upstream of the Rendija Canyon parcel, and so upstream contamination is not believed to be an issue. However, there is the potential for unexploded ordnance to exist within the parcel. A fatal accident involving a bazooka shell in the early 1960s prompted a semiannual sweep of all known impact areas to pick up ordnance exposed by weather. The semiannual surveys were later discontinued, but the Department of Defense conducted ordnance sweeps periodically into the 1980s. In 1993, the LANL ER Project removed from the area live mortar rounds with live fuses, as well as approximately 3000 pieces of ordnance fragments and expended bullets. Although it appears at this time that unexploded ordnance is no longer of concern in the Rendija Canyon parcel, it has also been demonstrated that previously undetected ordnance can subsequently become exposed over time.

The most effective way to mitigate the safety hazard posed by unexploded ordnance is to excavate the potentially affected soils to a depth below which ordnance could be found. However, this approach would also be costly, because the areal extent of unexploded ordnance is potentially significantly larger than the boundaries of the mortar impact areas as defined today. Nonetheless, excavation might be appropriate under the proposed land use scenario of residential development, but less so under the cultural and environmental preservation scenario, where the effects of soil disturbance on the ecosystem and on cultural relics must be balanced against safety concerns.

## 7.6 Proposed Remedies by Type

The proposed uses for this parcel include cultural and environmental preservation, and residential development. The remedies described for the three remaining PRSs in the Rendija Canyon parcel were identified on the basis of these two land use scenarios, and reflect the estimated costs of the remedial actions necessary under each scenario for conveyance and transfer of this parcel. Table 7.6.1 summarizes the remedies proposed to be undertaken, given the land use scenario of cultural and environmental preservation. Table 7.6.2 summarizes the proposed remedies under a residential development land use scenario.

**Table 7.6.1  
Proposed Remedies by Type  
Land Use Scenario: Cultural and Environmental Preservation**

PRS/Structure Type	Proposed Remedy			
	Removal	In Situ Treatment	In Situ Containment	No Action
Canyons systems	-	-	-	1
Surface Units	1	-	-	3

**Table 7.6.2  
Proposed Remedies by Type  
Land Use Scenario: Residential Development**

PRS/Structure Type	Proposed Remedy			
	Removal	In Situ Treatment	In Situ Containment	No Action
Canyons systems	-	-	-	1
Surface Units	4	-	-	-

## 7.7 Estimated Costs and Schedule

The following tables summarize the estimated costs and duration for the remedial activities within the Rendija Canyon parcel. The terms "estimated costs for completion" and "estimated duration" are defined in Section 1.4 of this report. Table 7.7.1 summarizes the costs and duration of remedial activities necessary to prepare the parcel for transfer under a land use scenario of cultural and environmental preservation. Table 7.7.2 summarizes the costs and duration of remedial activities necessary to prepare the parcel for transfer under a residential development land use scenario. PRS-specific information is included in Appendix A.

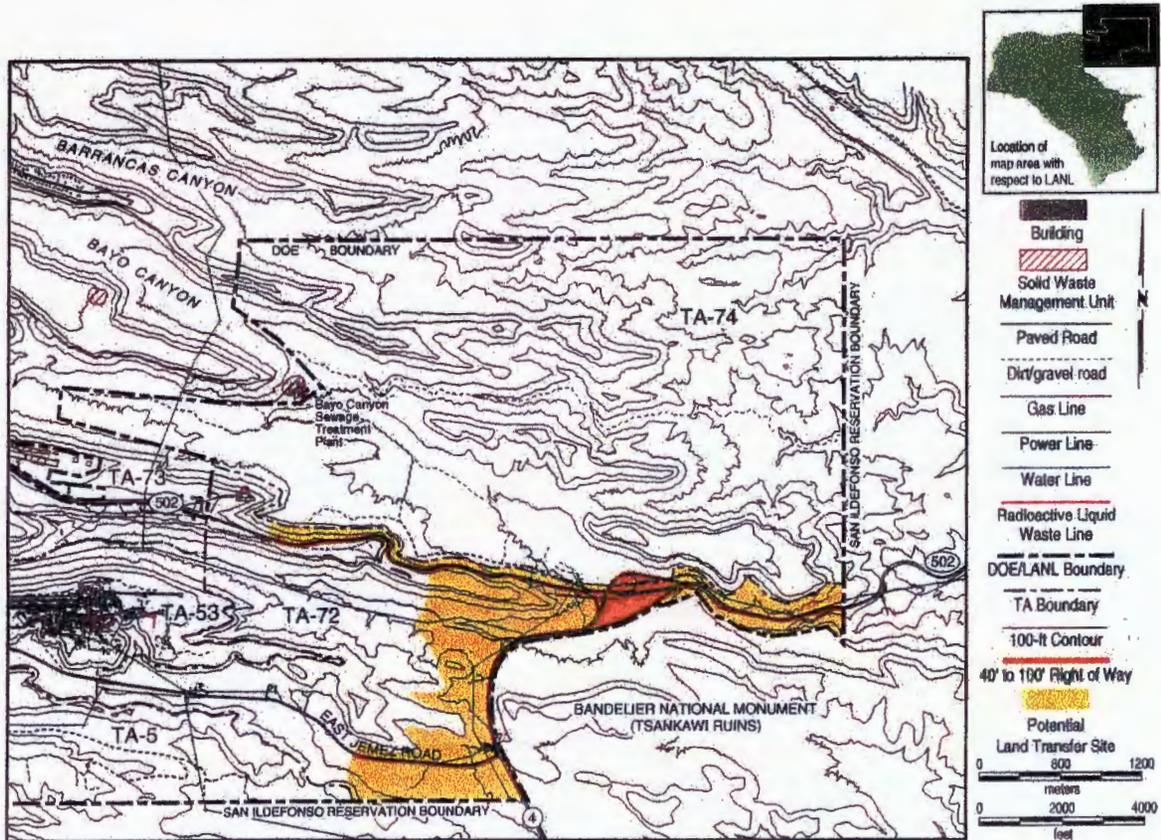
Note that there are almost always costs associated with the "no action" remedy. These reflect the costs of characterization and reporting, which are necessary to justify a "no action" proposal to the AA.

**Table 7.7.1  
Estimated Remedial Action and D&D Costs and Estimated Duration  
Land Use Scenario: Cultural and Environmental Preservation**

PRS/Structure Type/Other	Number of PRS/Structure Types	Estimated Costs for Completion (\$K)	Range In Estimated Durations for Individual PRSs (months)
Surface Units	4	18,901	14-30
Canyons systems	1	944	16
<b>Total</b>	-	19,053	-

**Table 7.7.2**  
**Estimated Remedial Action and D&D Costs and Estimated Duration**  
**Land Use Scenario: Residential Development**

<b>PRS/Structure Type/Other</b>	<b>Number of PRS/Structure Types</b>	<b>Estimated Costs for Completion (\$K)</b>	<b>Range in Estimated Durations for Individual PRSs (months)</b>
Surface Units	4	19,518	14-30
Canyons systems	1	944	16
<b>Total</b>	-	20,462	44



**Figure 8.1 White Rock Y Site**

## 8.0 White Rock Y Parcel

### 8.1 Introduction

The White Rock Y Parcel is a complex area that incorporates the alignments and intersections of State Route 502, State Route 4, and the easternmost part of East Jemez Road. Figure 8.1 shows the location of the parcel with respect to these transportation corridors. The parcel is 431.5 acres and includes the State-owned, grade separated intersection and surrounding land known as the White Rock Y. This site is largely undeveloped except for the major transportation routes connecting Los Alamos with northern New Mexico.

The land use proposed by the potential recipients of this parcel include cultural or environmental preservation. In addition, transportation corridors and utilities are proposed to be maintained, but this is an incidental use that will not affect the primary use of cultural and environmental preservation.

## 8.2 Description of PRSs and Structures within the White Rock Y Parcel

The White Rock Y parcel contains no PRSs within its boundaries, nor within proximity (i.e., within 50 feet of the perimeter of the parcel). The parcel contains six structures, which are all part of the water supply system that DOE transferred to Los Alamos County via long-term lease. Figure 8.2 shows the locations of the structures within the parcel. The structures include a water tank, a booster station, a water well, a chlorinator station, a sand trap, and a fluorine station. None of these structures is currently scheduled for D&D. The ER Project assumes that these structures will all remain intact and in beneficial use after the transfer of this parcel, and so D&D costs are not included in Table 8.7.1, "Estimated Remedial Action Costs and Durations". D&D costs for each of these structures have been estimated for information purposes only, and can be found in Appendix A of this report.

## 8.3 Extent of Contamination

Although there are no PRSs within this parcel, environmental contamination is, nonetheless, of potential concern within the portions of the parcel that lie within the Los Alamos and Sandia Canyon bottoms. Such contamination, if present, is most likely to have been generated in the upper portions of these watersheds. The LANL ER Project is investigating all canyons systems for the presence of contamination and in 1997, sediments were sampled in the portion of Los Alamos Canyon within the White Rock Y parcel. Several radionuclides were detected above fallout background levels. These included americium-241, cesium-137, plutonium-238, plutonium-239, and strontium-90. None of these radionuclides was detected above cleanup levels for a preservation land use scenario. Two additional radionuclides, thorium-230 and thorium 232, were detected at concentrations exceeding cleanup levels for this land use scenario; however, the background concentrations of these two radionuclides in the Los Alamos area frequently exceed calculated cleanup levels. The analytical data for these radionuclides is presented in Table 8.3.1

**Table 8.3.1**  
**Contaminants Exceeding Region 9 Preliminary Remediation Goals (PRGs)**  
**Land Use Scenario: Cultural and Environmental Preservation**

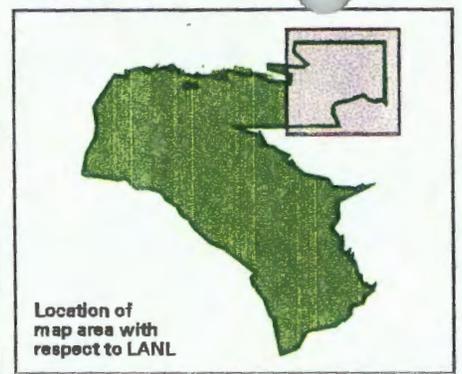
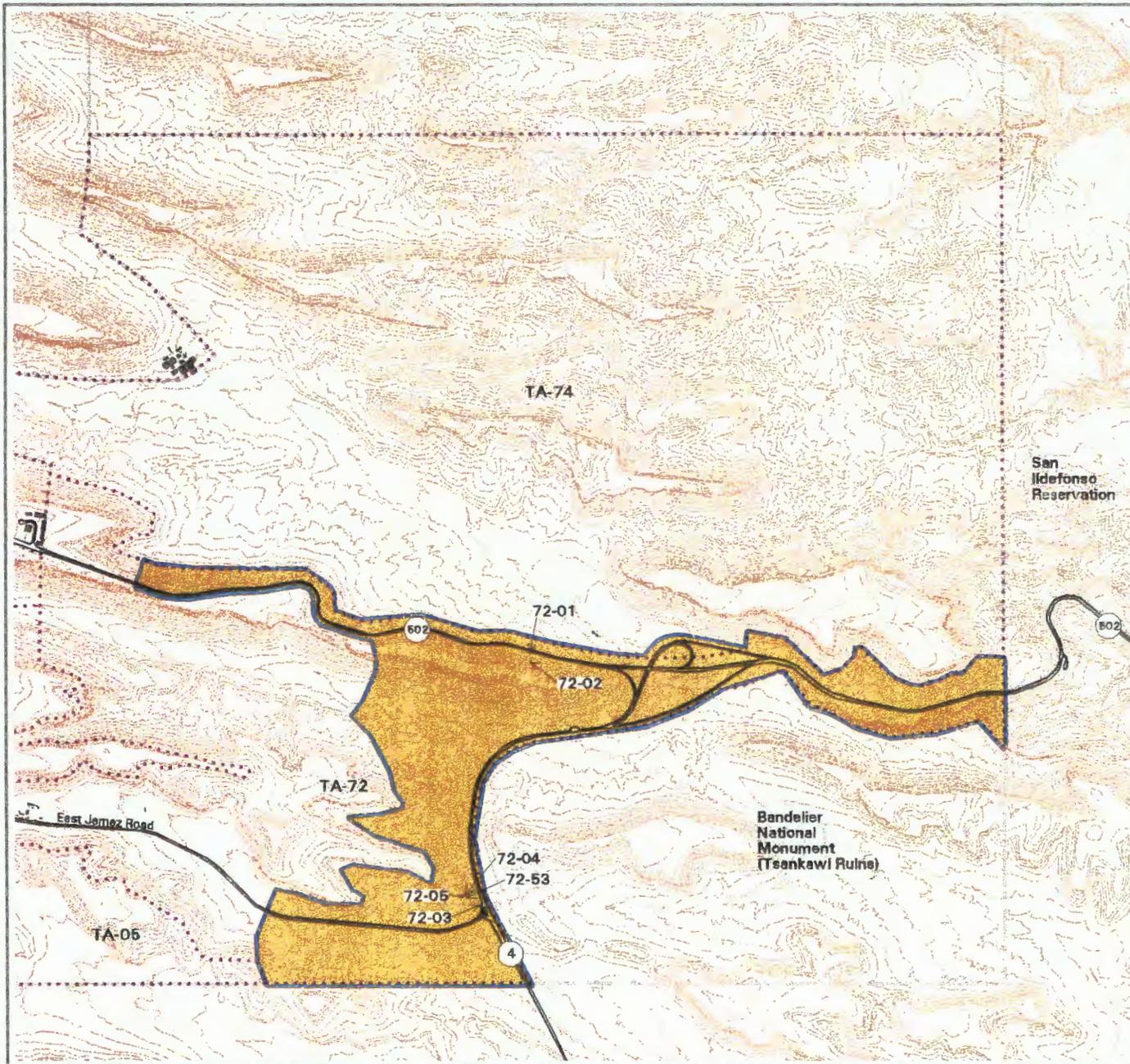
Contaminant	Industrial PRG (pCi/g)	# Samples Collected	# Detects > PRG	Mean Conc. Of Detects (pCi/g)
Thorium-230	0.54	8	8	1.7
Thorium-232	2.31	8	1	1.9

## 8.4 Regulatory Status

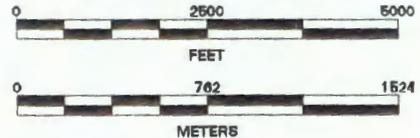
Although there are no PRSs within the White Rock Y parcel, the NMED is the AA for LANL's canyon systems, and must concur that no further action is required within such a system or systems before ER activity can be considered complete.

Presented below is a summary of the regulatory status of the canyon systems within the bounds of this parcel.

Figure 8.2: White Rock Y Site



-  Boundary, TA
-  Contour, 20 foot
-  Road, Paved
-  Building
-  50 Foot Buffer Around
-  Potential Land Transfer Site



State Plane Coordinate System, New Mexico Central Zone, 1983 North American Datum

NOTICE: The information on this map is provisional. Feature locations are dependent on scale and symbology and their accuracy may not have been confirmed. Data are from various sources and are part of the FIMAD repository.

**Table 8.4.1  
Summary of Regulatory Status**

PRS/Structure Type/Other	Under Investigation	Recommended for Human Health NFA	NFA Concurrency by DOE	NFA Concurrency by NMED	Under Reconsideration	Recommended for Integrated NFA
Canyons systems	2	-	-	-	-	-

### 8.5 Other Concerns

The White Rock Y parcel is traversed by Los Alamos and Sandia Canyons, which may contain residual contamination from historical operations at the Laboratory. Los Alamos Canyon is of particular interest, since it received discharges and surface runoff from TA-21, which served as the Laboratory site at which plutonium purification activities were conducted from 1945 until the 1970s. The eastern portion of TA-21 currently houses facilities used for tritium research activities. Other potential release sites in Los Alamos Canyon are located in TAs-2, 41, 53, 0, and 7. The historical and current discharges from Laboratory operations to Sandia Canyon are believed to be negligible.

The LANL ER Project is in the process of investigating these and other canyons drainage systems to characterize the nature and extent of contamination they contain. Thus far, radionuclides that have been detected above background levels, but below cleanup levels, in the White Rock Y parcel include americium-241, cesium-137, plutonium-238, plutonium-239, and strontium-90. Although thorium-230 and thorium-232 have been detected above calculated cleanup levels, the Los Alamos area background concentrations of these two compounds often exceed such levels. The distribution of these radionuclides is limited to the sediment deposits within either existing stream channels or the channels that the streams might have formerly followed at any time since the 1940s. Contaminants were identified in the perched groundwater at monitoring well R-9, which is located in the Los Alamos Canyon portion of this parcel. Above background concentrations of tritium and uranium were found 180 to 280 feet below the land surface. Any further characterization or remediation of these groundwaters would be done in the context of the entire canyon system and not at the scale of this parcel. Therefore, no characterization or remediation costs for groundwater are included in this assessment.

Although additional sampling might be warranted to more fully characterize the nature and extent of canyons contamination, the limited sampling conducted to date indicates that the existing levels of contamination found in the White Rock Y parcel canyons systems are lower than those that would elicit human health concerns. The levels of contaminants that exist today are expected only to decrease over time, because there is no longer a significant source of contaminant discharge into either of the canyons systems, and contaminated sediments will be dispersed over time by stream flow. It is not known whether the existing contamination of sediments could limit their use as

sources for cultural [medicinal and artistic] uses and ceremonial use, even with contamination levels below those eliciting human health concerns.

The latter is relevant because the proposed land use for the White Rock Y parcel is cultural and environmental preservation. The proposed land use must be taken into consideration in deciding whether or not site remediation is necessary or appropriate. Under the proposed land use scenario, the uses to which the parcel might be put include cultural and ceremonial use, recreation (e.g., hiking, biking), wildlife habitat, and preservation of existing cultural sites and ecosystems.

The tract could be put to almost all such uses with no remediation being necessary, and this would be an appropriate course of action under the preservation scenario. The primary limitation might be to cultural and ceremonial use, because sediments and spring waters in certain areas might not be acceptable sources of materials used for medicinal and artistic purposes. However, remediation activities, themselves, could have an adverse impact on preservation. The results of earth-moving activities could increase the likelihood of disturbing previously-undetected areas rich in cultural artifacts and relics.

The alternative to conducting no remediation would be to perform selective excavation and removal of contaminated sediments within the canyons systems. While this action would reduce the overall contamination within the parcel, it might not restore sediments to the conditions required for their use for cultural purposes. It could also result in erosion and downstream disturbances.

## 8.6 Proposed Remedies by Type

The proposed use for this parcel is cultural and environmental preservation. The remedies described for the portions of the canyon systems situated within the White Rock Y parcel were identified on the basis of this land use scenario, and reflect the estimated costs of the remedial actions necessary for conveyance and transfer of this parcel. The following table summarizes the remedies proposed to be undertaken, given the land use scenario of cultural and environmental preservation.

**Table 8.6.1**  
**Proposed Remedies by Type**  
**Land Use Scenario: Cultural and Environmental Preservation**

PRS/Structure/Other	Proposed Remedy			
	Removal	In Situ Treatment	In Situ Containment	No Action
Type IV Structures				6
Canyons systems				2

## 8.7 Estimated Costs and Schedule

The following table summarizes the estimated costs and duration for the remedial activities within the White Rock Y parcel, to prepare it for transfer under a land use scenario of cultural and environmental preservation.

Note that although the proposed remedy for the canyons systems is "no action", the estimated cost of the alternative remedy, selective removal of sediments, is presented so that cost information can be factored into a decision-making process.

**Table 8.7.1**  
**Estimated Remedial Action Costs and Duration**  
**Land Use Scenario: Cultural and Environmental Preservation**

<b>PRS/Structure Type/Other</b>	<b>Number of PRS/Structure Types</b>	<b>Estimated Costs for Completion (\$K)</b>	<b>Range in Estimated Durations for Canyons Systems (months)</b>
Canyons systems (no remediation)	2	1,880	16
Canyons systems (selective removal)	2	10,424	24
<b>Total</b>	-	1,880	-

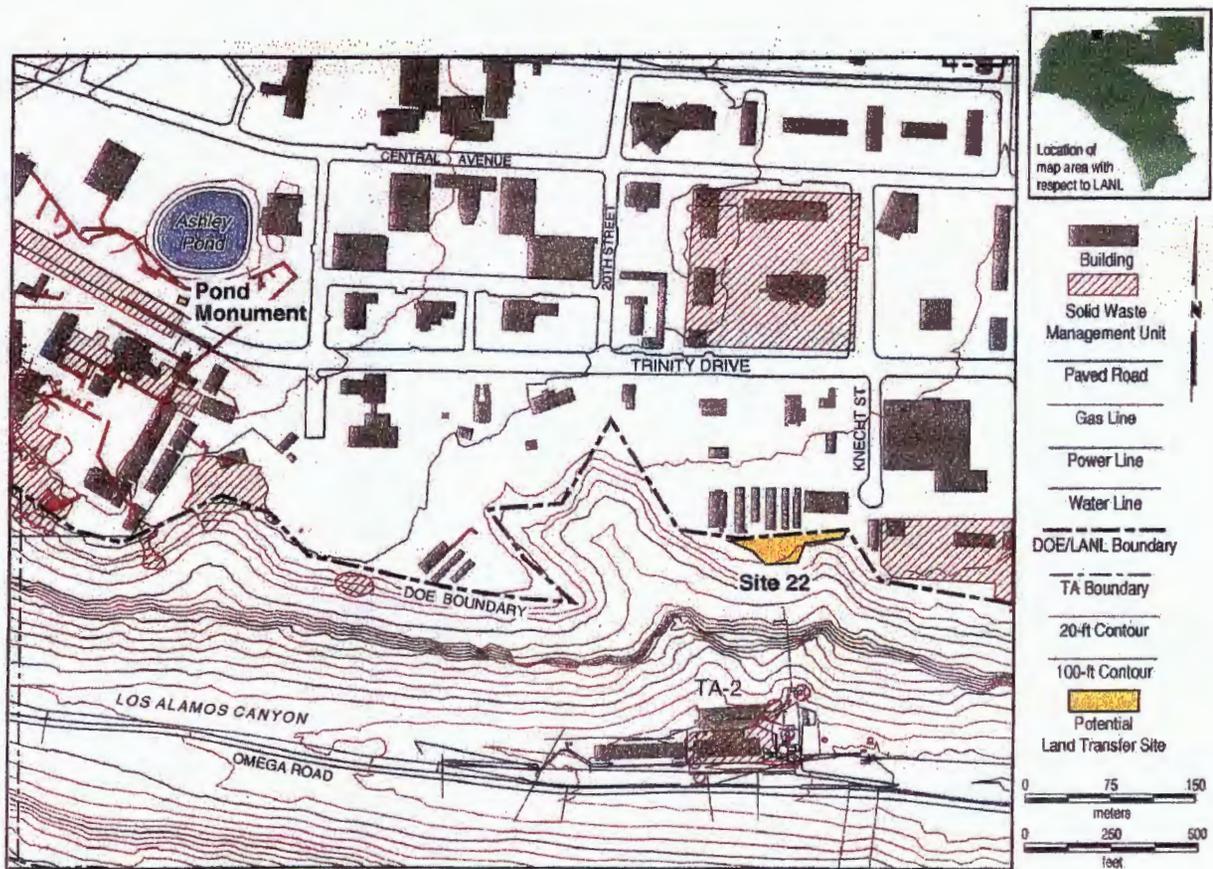


Figure 9.1 Site 22

## 9.0 Site 22 Parcel

### 9.1 Introduction

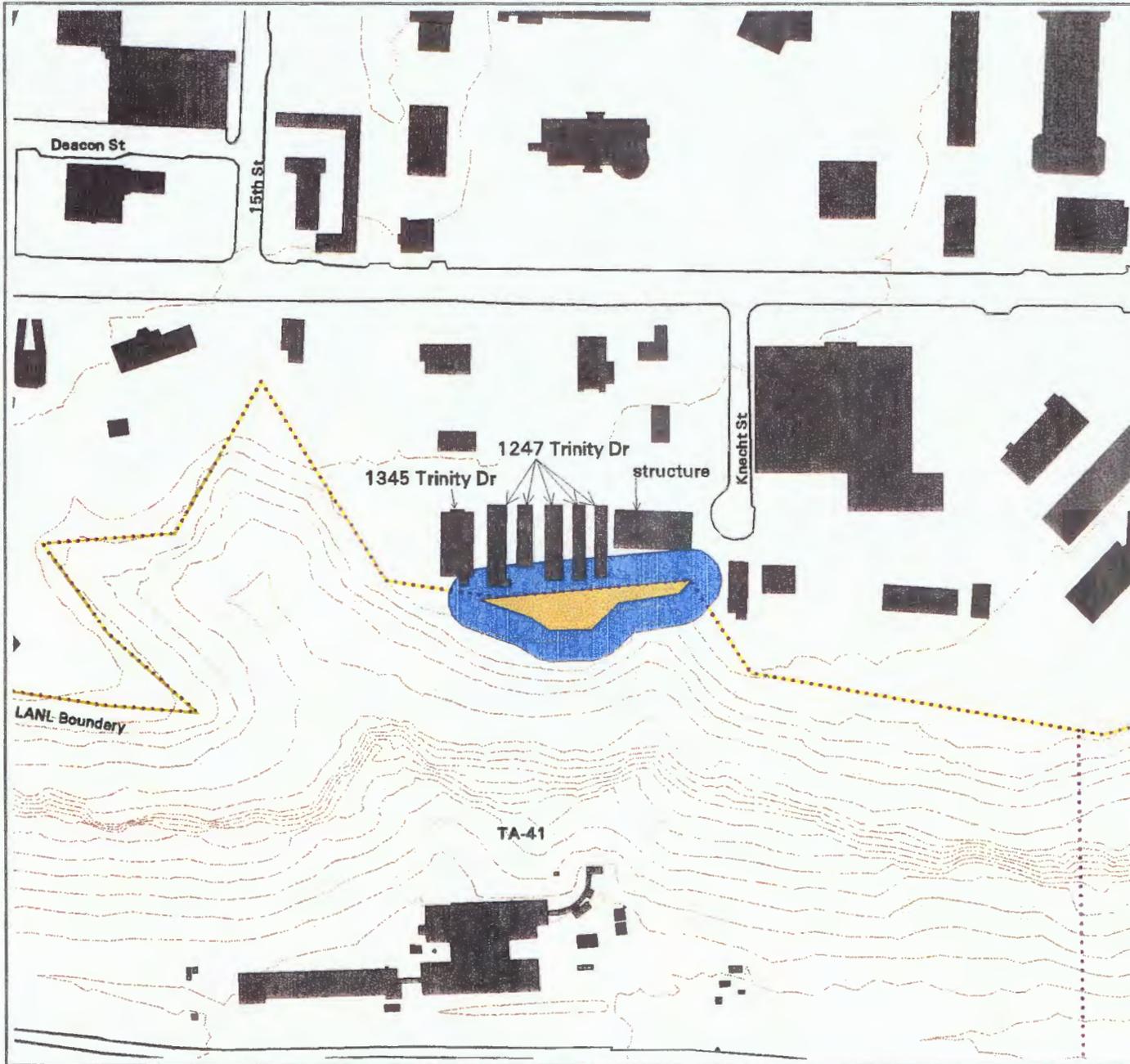
Site 22 is a small land parcel (approximately 0.15 acres) located at the edge of the townsite mesa, south of Trinity Drive and above Los Alamos Canyon. Figure 9.1 illustrates the location of this parcel with respect to the Los Alamos town site. Site 22 abuts privately owned property that is currently developed as a commercial storage business located behind a McDonald's fast food restaurant. This parcel currently has no public access and there is no development on Site 22.

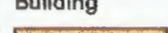
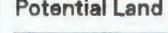
The potential land use by the potential land recipients is commercial development.

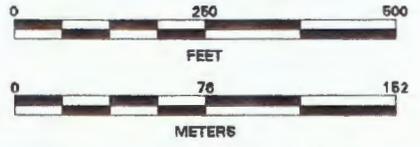
### 9.2 Description of PRSs and Structures within the Site 22 Parcel

The Site 22 parcel contains no PRSs within its boundaries, and there are no PRSs in proximity (i.e., within 50 feet) to the parcel. However, some construction debris was recently discovered onsite, and may have to be addressed prior to transfer of the parcel. There are no LANL-numbered structures located on the Site 22 parcel and,

Figure 9.2: Site 22



-  Boundary, TA
-  Contour, 20 foot
-  Road, Paved
-  Building
-  Potential Land Transfer Site
-  50 Foot Buffer Around Potential Land Transfer Site



State Plane Coordinate System, New Mexico Central Zone, 1983 North American Datum

NOTICE: The information on this map is provisional. Feature locations are dependent on scale and symbology and their accuracy may not have been confirmed. Data are from various sources and are part of the FIMAD repository.

consequently, there are no D&D costs associated with the transfer of this parcel. Figure 9.2 shows the Site 22 parcel in detail.

**9.3 Extent of Contamination**

Some construction debris was recently found on the surface of this parcel. It is neither known nor suspected to have been generated as a result of historical or current LANL operations. Because the debris is of a recent origin and is not known or suspected to be associated with LANL, it is not within the scope of work of the LANL ER Project to address it. Nonetheless, DOE may want to characterize and dispose of the debris prior to the transfer of the parcel. No sampling has yet been conducted to determine whether the debris is simply a solid waste, or whether it contains asbestos or other regulated materials.

**9.4 Regulatory Status**

There are no regulatory issues currently known to be associated with this parcel pursuant to environmental restoration or D&D.

**9.5 Other Concerns**

There are no other environmental restoration or D&D concerns known to be associated with this parcel.

**9.6 Proposed Remedies by Type**

The potential recipients propose to use this parcel for commercial development. The remedy described for the surface debris on the parcel was identified on the basis of this land use scenario, and reflects the estimated cost DOE could incur should action be necessary for conveyance and transfer of this parcel. Table 9.6.1 presents the action.

**Table 9.6.1  
Proposed Remedies by Type  
Land Use Scenario: Commercial Development**

PRS/Structure Type/Other	Proposed Remedy			
	Removal	In Situ Treatment	In Situ Containment	No Action
Non-LANL construction debris	1	-	-	-

**9.7 Estimated Costs and Schedule**

The following table summarizes the estimated cost and duration for the action that might be necessary to prepare the parcel for transfer under a land use scenario of commercial development. The parcel requires no D&D activity prior to transfer.

**Table 9.7.1**  
**Estimated Remedial Action Costs and Durations**  
**Land Use Scenario: Commercial Development**

<b>PRS/Structure Type</b>	<b>Number of PRS/Structure Types</b>	<b>Estimated Costs for Completion (\$K)</b>	<b>Duration (months)</b>
Non-LANL construction debris	1	91	9

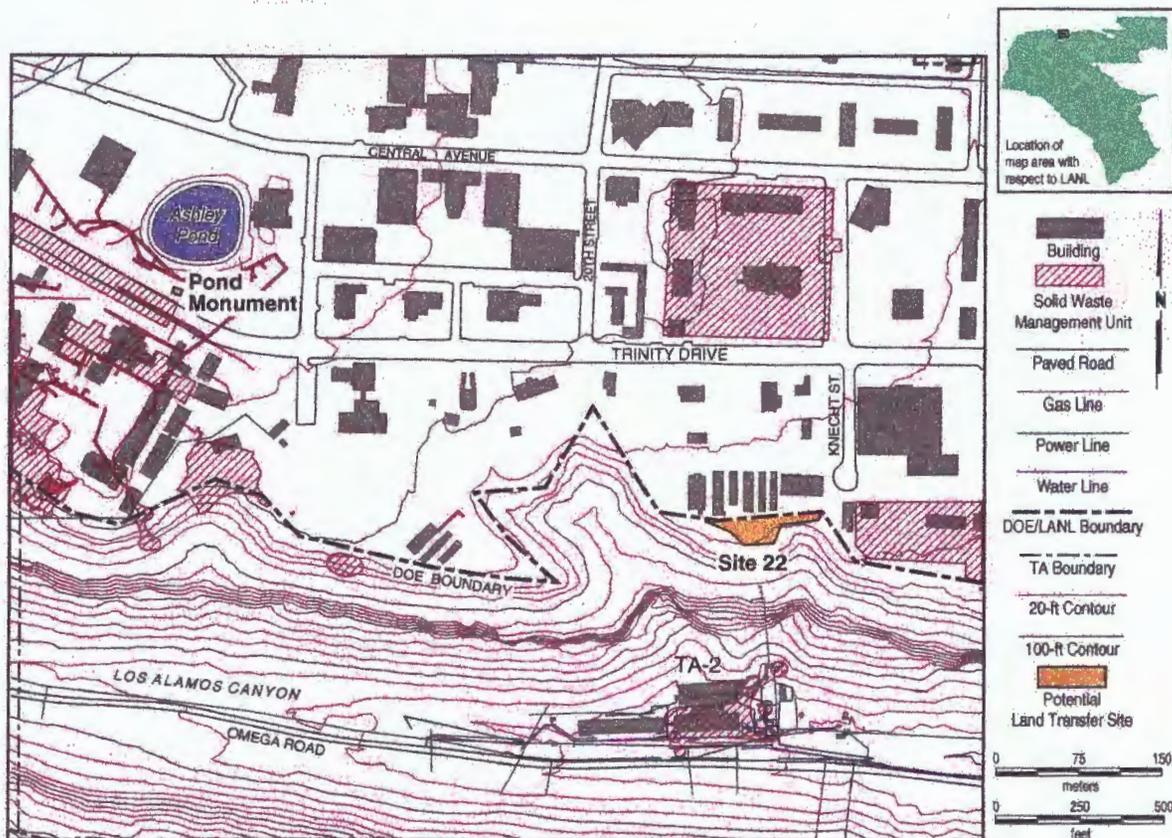


Figure 10.1 Manhattan Monument

## 10.0 Manhattan Monument Parcel

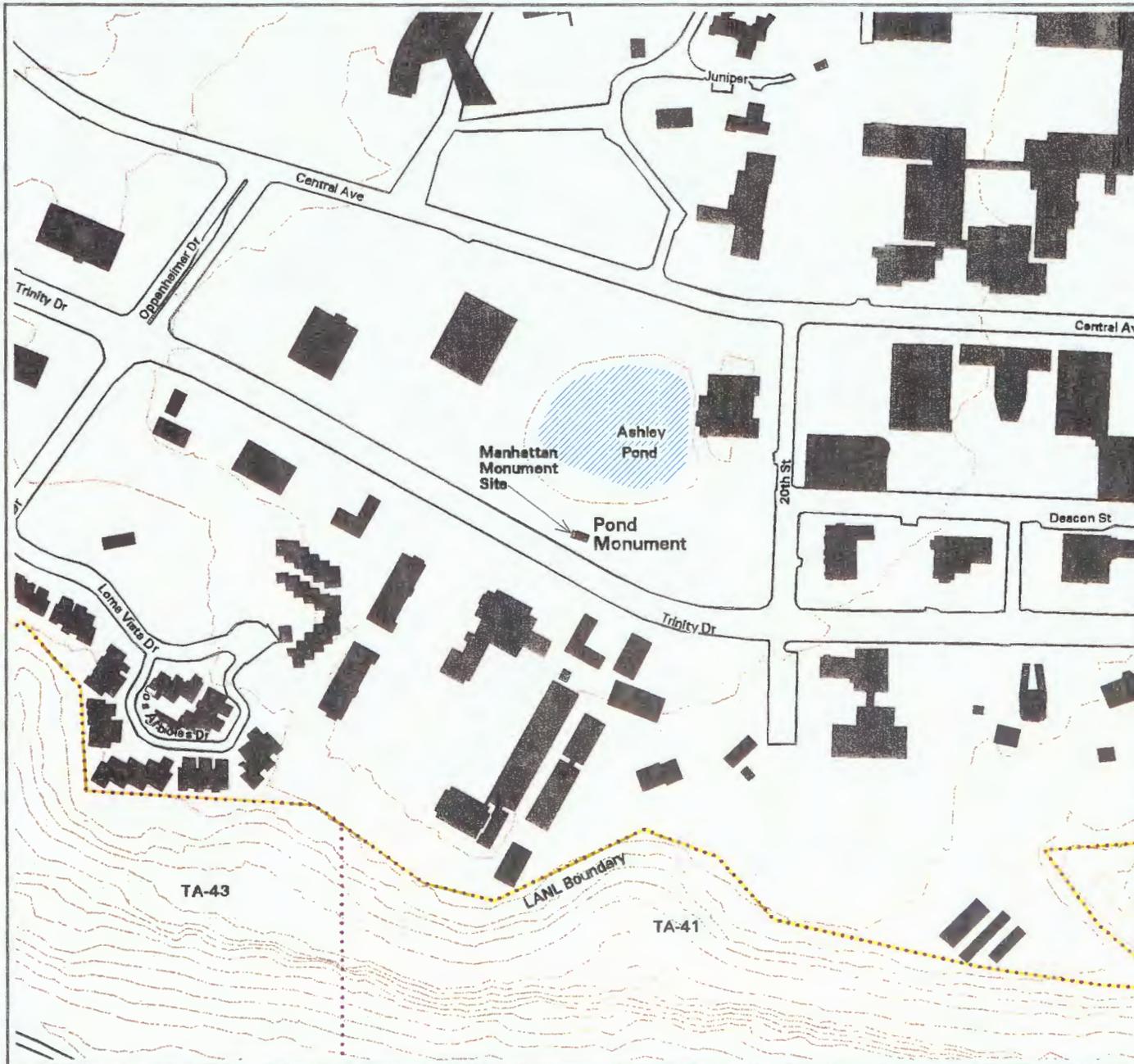
### 10.1 Introduction

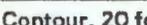
The Manhattan Monument Parcel is a small, town site parcel (approximately 400 square feet) located within Los Alamos County land and adjacent to Ashley Pond where most of the first Los Alamos Laboratory work was conducted. Figure 10.1 illustrates the location of this parcel with respect to the central area of the Los Alamos town site. This site consists of a plaque covered by a small pavilion. The contemplated land use by the potential land recipients is historic preservation.

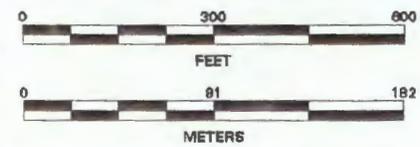
### 10.2 Description of PRSs and Structures within the Manhattan Monument Parcel

The Manhattan Monument parcel contains no PRSs within its boundaries. Evaluating PRSs within a buffer area was not considered to be appropriate for this parcel, inasmuch as its use will be limited primarily by its size rather than by the impacts of surrounding PRSs on the subject parcel. Moreover, the "buffer area" surrounding the Manhattan Monument is already under the administrative control of Los Alamos County, and is being used by the public for recreational purposes.

Figure 10.2: Manhattan Monument Site



-  Boundary, TA
-  Contour, 20 foot
-  Road, Paved
-  Building
-  Potential Land Transfer Site



State Plane Coordinate System, New Mexico Central Zone, 1983 North American Datum

NOTICE: The information on this map is provisional. Feature locations are dependent on scale and symbology and their accuracy may not have been confirmed. Data are from various sources and are part of the FIMAD repository.

The only structure situated on the parcel is the monument, itself. It is not currently scheduled for D&D, and the LANL ER Project assumes that it will remain intact and in beneficial use after the transfer of this parcel. Consequently, D&D costs are not estimated for the monument. Figure 10.2 shows the Manhattan Monument parcel in detail.

### **10.3 Extent of Contamination**

It is not specifically known whether or not there is any contamination in the subsurface soils of the parcel, itself. However, even if these soils are contaminated, there is no potential for harm to human health under the proposed land use scenario of historic preservation, because there is no realistic mechanism by which exposure to contaminants could occur.

### **10.4 Regulatory Status**

There are no regulatory issues associated with this parcel pursuant to environmental restoration or D&D.

### **10.5 Other Concerns**

There are no other concerns known to be associated with this parcel.

### **10.6 Proposed Remedies by Type**

Neither environmental remediation nor D&D are anticipated to be required within this parcel to prepare it for transfer under the proposed land use scenario of cultural preservation.

### **10.7 Estimated Costs and Schedule**

No environmental restoration or D&D costs are expected to be incurred to prepare this parcel for transfer under a proposed land use scenario of cultural preservation.

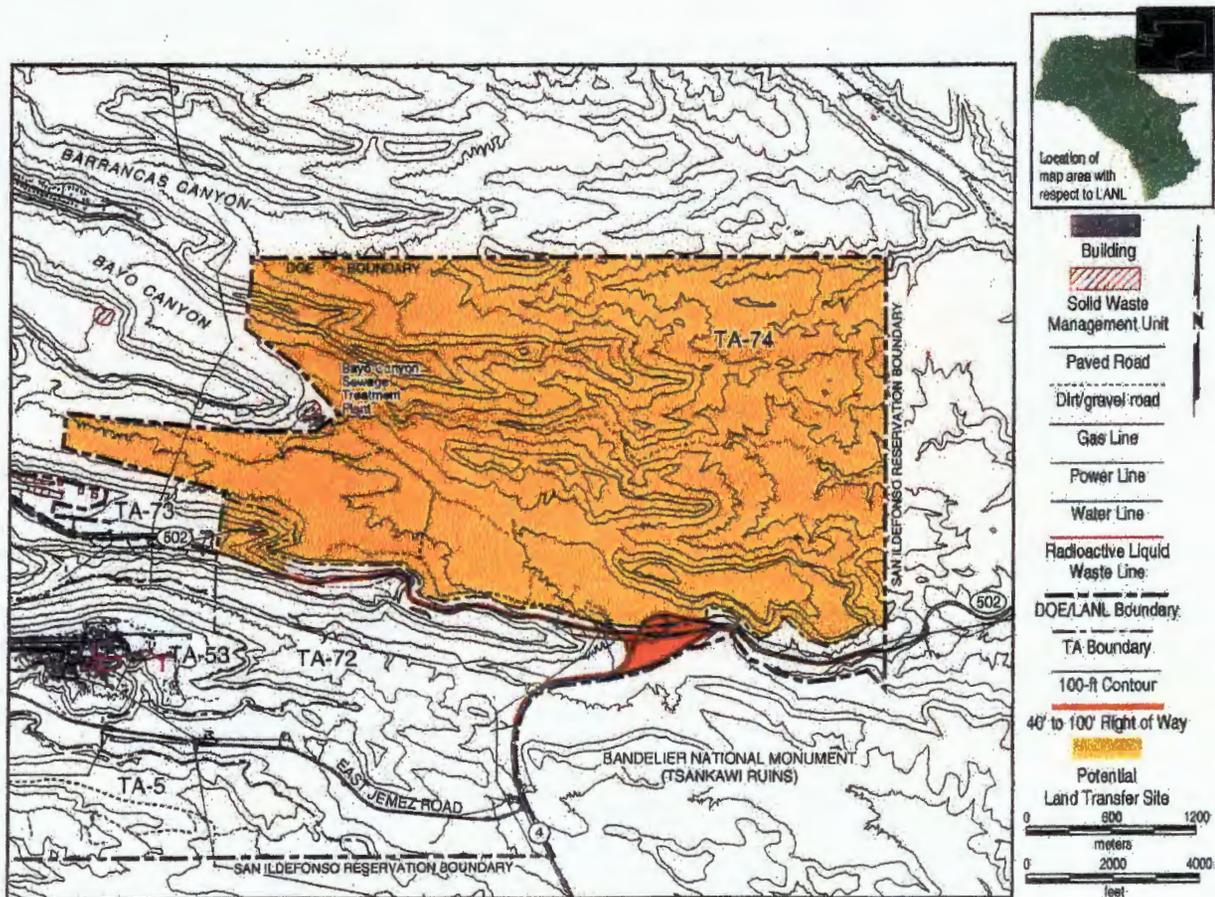


Figure 11.1 Technical Area - 74 Site

## 11.0 TA-74 Parcel

### 11.1 Introduction

TA-74 comprises 2,698 acres, and is located north-northeast of the Los Alamos town site and of the Laboratory. Figure 11.1 illustrates the location of this parcel with respect to the eastern portion of the Los Alamos town site, and the northeastern portion of the Laboratory. The parcel spans portions of Bayo and Pueblo Canyons. A small portion of the parcel (less than 20 acres) is situated on a mesa top and is adjacent to a business park on Los Alamos County land. Land north of the parcel is administered by the United States Forest Service, and to the east are lands held by the Department of the Interior in trust for the San Ildefonso Pueblo. The western and southern boundaries of TA-74 are determined by the limits of the Los Alamos town site and the Airport parcel to the west, and the White Rock Y parcel to the south. The TA-74 parcel was restored to the public domain by Presidential Proclamation 3539 on May 27, 1963.

The land use proposed by the potential recipients of the parcel include cultural and environmental preservation. In addition, existing utility infrastructure is proposed to be

maintained, but this is an incidental use that will not affect the primary proposed land use.

## 11.2 Description of PRSs and Structures within the TA-74 Parcel

The TA 74 parcel contains four PRSs and five structures. Figure 11.2 shows the locations of the PRSs and structures within the parcel. Three of the PRSs are located on a mesa point situated at the southwestern corner of the parcel, and the fourth, a former surface disposal area for demolition debris, is situated on the canyon wall below this mesa. Two of the three mesa-top PRSs are categorized as subsurface units. The third mesa-top PRS and the canyonside PRS are categorized as surface units. All four PRSs came to be as a result of historical laboratory operations at TA-19.

The four PRSs were sampled by the LANL ER Project, and the results are presented and discussed in Section 5.3, "Extent of Contamination". A septic tank and a drain line associated with the subsurface units were subsequently removed, and the debris in the canyonside surface disposal area was removed and disposed. All four sites have been recommended for NFA because they do not present a risk to human health.

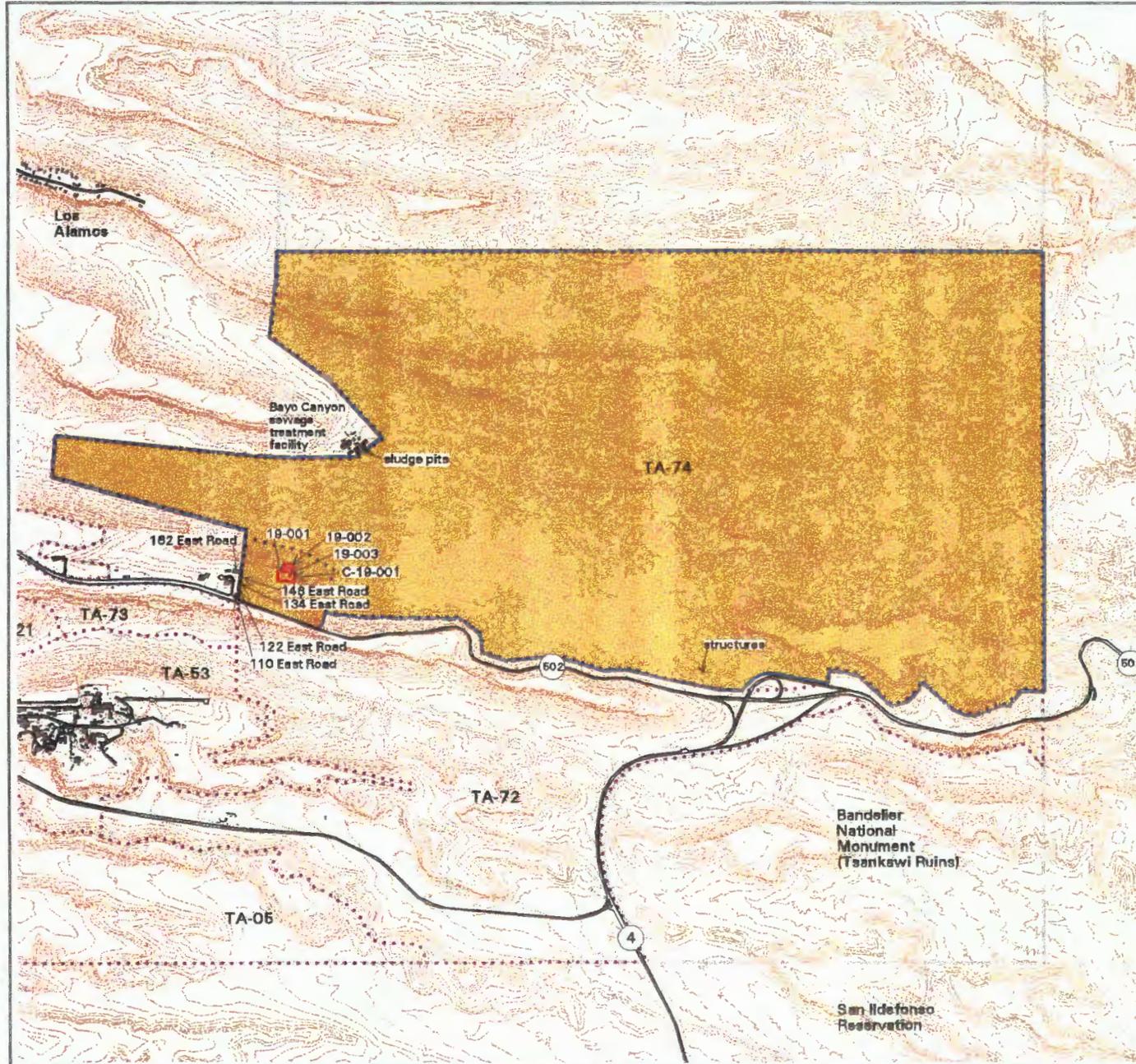
The TA-74 parcel also contains five structures. These include a water tower, water storage tank, and a water well, which are all part of the water supply system that DOE transferred to Los Alamos County via long-term lease (date). In addition, there are two structures that DOE currently leases to Los Alamos County, which are used by the maintenance department to store equipment. None of these structures is currently scheduled for D&D. The ER Project assumes that the structures associated with the water supply system will remain intact and in beneficial use after the transfer of this parcel, and so D&D costs are not presented in Table 11.7.1, "Estimated Remedial Action and D&D Costs and Durations", for these structures. D&D costs for these structures have been estimated for information purposes only, and can be found in Appendix A of this report. However, the two structures currently under lease to Los Alamos County may not have a future beneficial use after transfer of the parcel, and so D&D cost estimates are presented for them in Table 11.7.1.

The Bayo Canyon sewage treatment plant abuts the western boundary of the TA-74 parcel. This facility was constructed by and is operated by Los Alamos County. The facility is not now, nor has it ever been, under DOE control, and so it is not discussed in this report.

## 11.3 Extent of Contamination

The four PRSs located in TA-74 have been sampled, and the results are presented in Table 11.3.1. All of the PRSs are located on a small mesa point in the southwestern corner of the parcel, and so the existing PRS-related contamination is remote from the main area of the parcel. All sampling was conducted in surface soils found at the vicinity of the four PRSs. The results show that only arsenic and five organic compounds were detected at concentrations exceeding cleanup goals. Naturally-occurring background concentrations of arsenic in the Los Alamos area are frequently found to be above calculated cleanup goals, however.

# Figure 11.2: Technical Area 74 Site



Boundary, TA



Contour, 20 foot



Road, Paved



Building



Potential Land Transfer Site



50 Foot Buffer Around Potential Land Transfer Site



Potential Release Site



State Plane Coordinate System, New Mexico Central Zone, 1983 North American Datum

NOTICE: The information on this map is provisional. Feature locations are dependent on scale and symbology and their accuracy may not have been confirmed. Data are from various sources and are part of the FIMAD repository.

**Table 11.3.1**  
**PRS Contaminants Exceeding Region 9 Preliminary Remediation Goals (PRGs)<sup>36</sup>**  
**Land Use Scenario: Cultural and Environmental Preservation**

Contaminant	Industrial PRG (mg/kg)	Number Samples Collected	Number Detects > PRG	Mean Conc. of Detects (mg/kg)
Arsenic	3	50	12	2.2
Benzo(a)anthracene	3.6	22	2	4.4
Benzo(a)pyrene	0.36	22	3	4.6
Benzo(b)fluoranthene	3.6	22	2	5.1
Dibenz(a,h,)anthracene	0.36	22	2	1.00
Indeno(1,2,3-cd)pyrene	3.6	22	2	3.4

Sampling has also been conducted in the reaches of Pueblo Canyon contained in the TA-74 parcel. The results, which are presented in Table 11.3.2, show that arsenic and one organic compound have been detected above cleanup goals. Additional investigations in the reaches of Pueblo and Bayo Canyons are currently ongoing to support decision-making on final actions for the canyon bottoms.

**Table 11.3.2**  
**Canyons Contaminants Exceeding Region 9 Preliminary Remediation Goals (PRGs)**  
**Land Use Scenario: Cultural and Environmental Preservation**

Contaminant	Industrial PRG (mg/kg)	Number Samples Collected	Number Detects > PRG	Mean Conc. of Detects (mg/kg)
Arsenic	3	22	1	2.0
Benzo(a)pyrene	0.36	9	1	0.68

#### 11.4 Regulatory Status

Three of the PRSs contained in this parcel are listed in the HSWA Module of LANL's RCRA permit, and one is not. The NMED is the AA for PRSs listed on the permit, and must concur that no further action is required at a PRS before the PRS can be removed from the permit. For the one TA-74 PRS that is not on the permit, DOE is the AA that must concur on "no further action" recommendations for ER action to be considered complete. All four units have been recommended for NFA because they do not present a risk to human health. Neither the DOE nor NMED has concurred with any of the four recommendations for NFA based on human health risk, alone. The NMED has directed that additional sampling is to be conducted to more fully define the extent of surface contamination, and to ascertain whether or not subsurface contamination exists at levels above cleanup goals.

<sup>36</sup> PRGs represent the cleanup goals that must be achieved to prepare a site for a specified land use. Residential PRGs are lower, and allow for the least amount of residual contamination to remain on site. Industrial PRGs are higher, and are appropriate to use when a site is being proposed for commercial and industrial development. To determine which set of PRGs would be appropriate for cultural and environmental preservation, both the potential for exposure to residual contamination and the impacts of remediation were evaluated. On the basis of this evaluation, it was determined that industrial PRGs are appropriate for use under a cultural or environmental preservation land use scenario.

Presented below is a summary of the regulatory status of the PRSs within the bounds of this parcel.

**Table 11.4.1  
Summary of Regulatory Status**

PRS Type	Under Investigation	Recommended for Human Health NFA	NFA Concurrence by DOE	NFA Concurrence by NMED	Under Reconsideration	Recommended for Integrated NFA
Subsurface units	-	1	-	-	-	-
Surface units	-	1	-	-	-	-
Outfalls	-	2	-	-	-	-

### 11.5 Other Concerns

The TA-74 parcel is traversed by Pueblo and Bayo Canyons, which are known to contain residual contamination from historical operations at the Laboratory. Specifically, radioactive liquid waste was discharged into upper Pueblo Canyon from 1943 to 1965 as a result of operations at TA-45. TA-45 was decommissioned and cleaned up in 1965, and there has been no discharge of radioactive liquid waste into Pueblo Canyon since that time. The sources of contamination in upper Bayo Canyon were firing sites that operated from 1945 to 1963, and dispersed both metals and depleted uranium during test shots. The firing sites were decommissioned in 1965.

The LANL ER Project is in the process of investigating these and other canyons drainage systems to characterize the nature and extent of contamination they contain. Thus far, radionuclides that have been detected above background levels in the TA-74 parcel include tritium, plutonium-238, 239, and 240, and americium-241. The distribution of these radionuclides is limited to the sediment deposits within either existing stream channels or the channels that the streams might have formerly followed at any time since 1943. Contaminants were identified in the perched groundwater in wells in Pueblo Canyon. Above background concentrations of tritium and uranium were found 180 to 280 feet below the land surface. Any further characterization or remediation of these groundwaters would be done in the context of the entire canyon system and not at the scale of this parcel. Therefore, no characterization or remediation costs for groundwater are included in this assessment.

Although additional sampling might be warranted to more fully characterize the nature and extent of canyons contamination, the limited sampling conducted to date indicates that the existing levels of contamination found in the TA-74 parcel canyons systems are orders of magnitude lower than those that would elicit health concerns. The levels of contaminants that exist today are expected only to decrease over time, because there is no longer a source of contaminant discharge into either of the canyons systems, and contaminated sediments will be dispersed over time by stream flow. However, the existing contamination of sediments and spring waters may limit their use as sources for cultural [medicinal and artistic] uses and ceremonial use, even with contamination levels

orders of magnitude below those eliciting health concerns. The latter is relevant because the proposed land use for the TA-74 parcel is cultural and environmental preservation.

The TA-74 parcel is large, and both ecologically and culturally rich. It is also aesthetically rich and, because of the NM State Road 502 vistas, of high interest to both local residents and visitors. The aesthetics of the parcel, along with the proposed land use of preservation, must be taken into consideration in deciding whether or not site remediation is necessary or appropriate. Under the proposed land use scenario, the uses to which the parcel might be put include cultural and ceremonial use, recreation (e.g., hiking, biking), wildlife habitat, and preservation of existing cultural sites, scenic vistas, and ecosystems.

The tract could be put to almost all such uses with no remediation being necessary, and this would be an appropriate course of action under the preservation scenario. The primary limitation might be to cultural and ceremonial use, because sediments and spring waters in certain areas might not be acceptable sources of materials used for medicinal and artistic purposes. However, remediation activities, themselves, could have an adverse impact on preservation. The results of earth-moving activities could disrupt scenic vistas, and increase the likelihood of disturbing previously-undetected areas rich in cultural artifacts and relics.

The alternative to conducting no remediation would be to perform selective excavation and removal of contaminated sediments within the canyons systems. While this action would reduce the overall contamination within the parcel, it might not restore the springs and sediments to the conditions required for their use for cultural purposes. It could also result in erosion and downstream disturbances.

## 11.6 Proposed Remedies by Type

The potential recipients propose to use this parcel for cultural and environmental preservation. The remedies described for the PRSs in the TA-74 parcel were identified on the basis of this land use scenario, and reflect the estimated costs of the remedial actions necessary for conveyance and transfer of this parcel. The following table summarizes the remedies proposed to be undertaken, given the land use scenario of cultural and environmental preservation.

**Table 11.6.1**  
**Proposed Remedies by Type**  
**Land Use Scenario: Cultural and Environmental Preservation**

PRS/Structure/Other Type	Proposed Remedy			
	Removal	In Situ Treatment	In Situ Containment	No Action
Subsurface units	-	-	-	1
Surface units	-	-	-	1
Outfalls	-	-	-	2
Type II Structures	2	-	-	3
Canyons systems	-	-	-	2

## 11.7 Estimated Costs and Schedule

The following table summarizes the estimated costs and duration for the remedial activities and D&D within the TA-74 parcel, to prepare it for transfer under a land use scenario of cultural and environmental preservation. PRS and structure-specific information is included in Appendix A.

Note that although the proposed remedy for the canyons systems is "no remediation", the estimated cost of the alternative remedy, selective removal of sediments, is presented so that cost information can be evaluated as part of a decision-making process.

**Table 11.7.1**  
**Estimated Remedial Action and D&D Costs and Duration**  
**Land Use Scenario: Cultural and Environmental Preservation**

PRS/Structure Type/Other	Number of PRS/Structure Types	Estimated Costs for Completion (\$K)	Range in Estimated Durations for Individual PRSs and Structures (months)
Subsurface units	1	0	0
Surface units	1	0	0
Outfalls	2	1,887	18
Type II Structures	2	972	2
Canyons systems (no remediation)	2	1,796	11-16
Canyons systems (selective removal)	2	213,779	22
<b>Total</b>	-	4,655	-

**APPENDIX A**

**PRS, STRUCTURE, AND LAND USE REPORTS**

**From the**

**ER-CAT DATABASE**

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## *PRS Parcel Report*

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***\*\*Does not include the following  
Parcels:***

***Site 22  
Monument Site***

## Airport Site

Identification Code-PRS Number	Location-Technical Area	Location Coordinate Northing	Location Coordinate Easting	Type	Areal Extent (sq. ft.)	Regulatory Driver	Regulatory Status	Status of Investigation	COPCs-Has Sampling Occurred?	Schedule for Completion
00-034(a)	0			Surface Unit	70000	Non-HSWA	Under Investigation	In progress	No	FY 04
73-001(a)	73	1775863.06	1634544.46	Subsurface Unit	606946	HSWA	Under Investigation	In progress	Yes	FY 07
73-001(b)	73	1775180.57	1637329.28	Subsurface Unit	3226	HSWA	Under Investigation	In progress	Yes	FY 07
73-001(c)	73	Multiple Locations	Multiple Locations	Subsurface Unit	88879	HSWA	Under Investigation	In progress	Yes	FY 07
73-001(d)	73	1775262.42	1636743.31	Subsurface Unit	74873	HSWA	Under Investigation	In progress	Yes	FY 07
73-002	73	1776502.03	1632859.24	Surface Unit	18434	HSWA	Under Investigation	In progress	Yes	FY 01
73-003	73	1776263.50	1632723.01	Surface Unit	127	Non-HSWA	Under Investigation	In progress	Yes	FY 00
73-004(a)	73	Multiple Locations	Multiple Locations	Outfall	71	HSWA	Proposed for NFA based on Human Health	Remediation	Yes	FY 00
73-004(b)	73	Multiple Locations	Multiple Locations	Outfall	79	HSWA	Proposed for NFA based on Human Health	Remediation	Yes	FY 00

## Airport Site

Identification Code-PRS Number	Location-Technical Area	Location Coordinate Northing	Location Coordinate Easting	Type	Areal Extent (sq. ft.)	Regulatory Driver	Regulatory Status	Status of Investigation	COPCs-Has Sampling Occurred?	Schedule for Completion
73-004(c)	73	Multiple Locations	Multiple Locations	Outfall	84	HSWA	Proposed for NFA based on Human Health	In progress	No	NA
73-004(d)	73	1775923.20	1634261.76	Outfall	112	HSWA	Proposed for NFA based on Human Health	In progress	Yes	FY 07
73-005	73	1775489.59	1632760.44	Surface Unit	59495	HSWA	Under Investigation	In progress	Yes	FY 00
73-006	73	Multiple Locations	Multiple Locations	Outfall	2	HSWA	Under Investigation	In progress	Yes	FY 00
73-007	73			Outfall	500	Non-HSWA	Under Investigation	In progress	Yes	FY 00
C-31-001	31	1776101.40	1631357.48	Surface Unit	173663	Non-HSWA	NFA Concurrence by DOE	Completed	Yes	FY 00
C-73-001	73	1775988.53	1631977.90	Subsurface Unit	3444	Non-HSWA	NFA Concurrence by DOE	Completed	No	FY 00
C-73-002	73	1775988.53	1631977.90	Subsurface Unit	3444	Non-HSWA	NFA Concurrence by DOE	Completed	No	FY 00
C-73-003	73	1775988.53	1631977.90	Subsurface Unit	3444	Non-HSWA	NFA Concurrence by DOE	Completed	No	FY 00

## Airport Site

Identification Code-PRS Number	Location-Technical Area	Location Coordinate Northing	Location Coordinate Easting	Type	Areal Extent (sq. ft.)	Regulatory Driver	Regulatory Status	Status of Investigation	COPCs-Has Sampling Occurred?	Schedule for Completion
C-73-004	73	1775988.52	1631977.90	Subsurface Unit	3444	Non-HSWA	NFA Concurrence by DOE	Completed	No	FY 00
C-73-005(a)	73			Material Disposal Unit	150	Non-HSWA	Under Investigation	In progress	Yes	FY 00
C-73-005(b)	73			Material Disposal Unit	100	Non-HSWA	Under Investigation	In progress	Yes	FY 00
C-73-005(c)	73			Material Disposal Unit	100	Non-HSWA	Under Investigation	In progress	Yes	FY 00
C-73-005(d)	73			Material Disposal Unit	100	Non-HSWA	Under Investigation	In progress	Yes	FY 00
C-73-005(e)	73			Material Disposal Unit	100	Non-HSWA	Under Investigation	In progress	Yes	FY 00
C-73-005(f)	73			Material Disposal Unit	100	Non-HSWA	Under Investigation	In progress	Yes	FY 00

## DOE LAAO Site

Identification Code-PRS Number	Location-Technical Area	Location Coordinate Northing	Location Coordinate Easting	Type	Areal Extent (sq. ft.)	Regulatory Driver	Regulatory Status	Status of Investigation	COPCs-Has Sampling Occurred?	Schedule for Completion
00-003	0	1776373.95	1620862.75	Surface Unit	513	HSWA	Proposed for NFA based on Human Health	In progress	Yes	FY 04
00-012	0	1776388.12	1620805.41	Subsurface Unit	3973	HSWA	Proposed for NFA based on Human Health	In progress	Yes	FY 04
00-030(i)	0	1776405.84	1622106.12	Outfall	185	Non-HSWA	Proposed for NFA based on Human Health	Remediation	Yes	FY 04

## DP Road Site

Identification Code-PRS Number	Location-Technical Area	Location Coordinate Northing	Location Coordinate Easting	Type	Areal Extent (sq. ft.)	Regulatory Driver	Regulatory Status	Status of Investigation	COPCs-Has Sampling Occurred?	Schedule for Completion
00-004	0	1775086.53	1627977.57	Surface Unit	14330	Non-HSWA	Proposed for NFA based on Human Health	In progress	Yes	FY 00
00-010(a)	0	1774673.74	1629220.40	Subsurface Unit	11866	Non-HSWA	NFA Concurrence by DOE	Completed	No	FY 04
00-010(b)	0	1775129.49	1628149.40	Subsurface Unit	617	Non-HSWA	Under Reconsideration	In progress	Yes	FY 00
00-027	0			Surface Unit	45000	Non-HSWA	Under Investigation	In progress	Yes	FY 04
00-030(b)	0	1775215.26	1628454.06	Surface Unit	27702	HSWA	Proposed for NFA based on Human Health	Remediation	Yes	FY 00
00-030(l)	0	1774888.32	1628062.54	Surface Unit	174	HSWA	Proposed for NFA based on Human Health	Remediation	Yes	FY 00
00-030(m)	0	1774910.97	1628137.57	Surface Unit	93	HSWA	Proposed for NFA based on Human Health	Remediation	Yes	FY 00
00-033(a)	0			Surface Unit	500	Non-HSWA	Proposed for NFA based on Human Health	Remediation	Yes	FY 00
00-033(b)	0			Surface Unit	500	Non-HSWA	Proposed for NFA based on Human Health	In progress	Yes	FY 00

## DP Road Site

<b>Identification Code-PRS Number</b>	<b>Location-Technical Area</b>	<b>Location Coordinate Northing</b>	<b>Location Coordinate Easting</b>	<b>Type</b>	<b>Areal Extent (sq. ft.)</b>	<b>Regulatory Driver</b>	<b>Regulatory Status</b>	<b>Status of Investigation</b>	<b>COPCs-Has Sampling Occurred?</b>	<b>Schedule for Completion</b>
21-029	21	1775538.31	1628801.03	Surface Unit	422272	HSWA	Under Investigation	Remediation	Yes	FY 01
DP Canyon2	21	Multiple Locations	Multiple Locations	Canyon		Non-HSWA	Under Investigation	In progress	No	FY 02

## Rendija Canyon

<b>Identification Code-PRS Number</b>	<b>Location-Technical Area</b>	<b>Location Coordinate Northing</b>	<b>Location Coordinate Easting</b>	<b>Type</b>	<b>Areal Extent (sq. ft.)</b>	<b>Regulatory Driver</b>	<b>Regulatory Status</b>	<b>Status of Investigation</b>	<b>COPCs-Has Sampling Occurred?</b>	<b>Schedule for Completion</b>
00-011(a)	0	1786696.40	1634563.55	Surface Unit	1248063	HSWA	Proposed for NFA based on Human Health	Remediation	Yes	FY 04
00-011(c)	0	1788892.16	1630207.25	Surface Unit	373747	HSWA	Proposed for NFA based on Human Health	Remediation	Yes	FY 04
00-011(e)	0	1788491.36	1632942.35	Surface Unit	650801	HSWA	Proposed for NFA based on Human Health	Remediation	Yes	FY 04
00-015	0	1786583.46	1632701.12	Surface Unit	520882	Non-HSWA	NFA Concurrence by DOE	Completed	No	FY 03
C-00-002	0	Multiple Locations	Multiple Locations	Canyon	0	Non-HSWA	Under Investigation	In progress	Yes	FY 00

## TA-21 Site

Identification Code-PRS Number	Location-Technical Area	Location Coordinate Northing	Location Coordinate Easting	Type	Areal Extent (sq. ft.)	Regulatory Driver	Regulatory Status	Status of Investigation	COPCs-Has Sampling Occurred?	Schedule for Completion
21-001	21	Multiple Locations	Multiple Locations	Surface Unit	9877	Non-HSWA	Under Investigation	In progress	No	FY 06
21-002(a)	21	Multiple Locations	Multiple Locations	Surface Unit	1	HSWA	Under Investigation	In progress	No	FY 01
21-002(b)	21	1774839.05	1631931.46	Surface Unit	567	Non-HSWA	Proposed for NFA based on Human Health	In progress	Yes	FY 02
21-003	21	1773957.39	1633361.83	Surface Unit	23805	HSWA	Under Investigation	In progress	Yes	FY 04
21-004(a)	21	1774811.99	1632265.69	Surface Unit	2545	Non-HSWA	Proposed for NFA based on Human Health	In progress	No	FY 03
21-004(b)	21	1774411.98	1633701.04	Surface Unit	921	HSWA	Proposed for NFA based on Human Health	In progress	Yes	FY 03
21-004(c)	21	1774411.98	1633701.04	Surface Unit	921	HSWA	Proposed for NFA based on Human Health	In progress	Yes	FY 03
21-004(d)	21	1774338.69	1633745.33	Outfall	1416	Non-HSWA	Proposed for NFA based on Human Health	In progress	Yes	FY 03
21-005	21	1774802.23	1631850.22	Subsurface Unit	66	HSWA	Under Investigation	In progress	No	FY 00

## TA-21 Site

Identification Code-PRS Number	Location-Technical Area	Location Coordinate Northing	Location Coordinate Easting	Type	Areal Extent (sq. ft.)	Regulatory Driver	Regulatory Status	Status of Investigation	COPCs-Has Sampling Occurred?	Schedule for Completion
21-006(a)	21	Multiple Locations	Multiple Locations	Subsurface Unit	2347	HSWA	Under Investigation	In progress	No	FY 03
21-006(b)	21	Multiple Locations	Multiple Locations	Subsurface Unit	3775	HSWA	Under Investigation	In progress	Yes	FY 03
21-006(c)	21	1774375.46	1632238.22	Subsurface Unit	170	HSWA	Under Investigation	In progress	No	FY 02
21-006(d)	21	1774351.85	1632260.60	Subsurface Unit	305	HSWA	Under Investigation	In progress	No	FY 02
21-006(e)	21	1774225.27	1632373.32	Subsurface Unit	258	HSWA	Under Investigation	In progress	No	FY 02
21-006(f)	21	1774225.27	1632373.32	Subsurface Unit	258	Non-HSWA	Under Investigation	In progress	No	FY 02
21-007	21	1774519.12	1632657.54	Incinerator	1	HSWA	Proposed for NFA based on Human Health	In progress	Yes	FY 05
21-008	21	1774451.33	1632173.49	Incinerator	234	Non-HSWA	Proposed for NFA based on Human Health	In progress	Yes	FY 03
21-009	21	1774802	1631200	Surface Unit	1500	Non-HSWA	Under Investigation	In progress	No	FY 01

### TA-21 Site

Identification Code-PRS Number	Location-Technical Area	Location Coordinate Northing	Location Coordinate Easting	Type	Areal Extent (sq. ft.)	Regulatory Driver	Regulatory Status	Status of Investigation	COPCs-Has Sampling Occurred?	Schedule for Completion
21-010(a)	21	1774442.98	1632744.33	Surface Unit	4355	HSWA	Under Investigation	In progress	Yes	FY 06
21-010(b)	21	1774442.98	1632744.33	Surface Unit	4355	HSWA	Under Investigation	In progress	Yes	FY 06
21-010(c)	21	1774442.98	1632744.33	Surface Unit	4355	HSWA	Under Investigation	In progress	Yes	FY 06
21-010(d)	21	1774442.98	1632744.33	Surface Unit	4355	HSWA	Under Investigation	In progress	Yes	FY 06
21-010(e)	21	1774442.98	1632744.33	Surface Unit	4355	HSWA	Under Investigation	In progress	Yes	FY 06
21-010(f)	21	1774442.98	1632744.33	Surface Unit	4355	HSWA	Under Investigation	In progress	Yes	FY 06
21-010(g)	21	1774442.98	1632744.33	Surface Unit	4355	HSWA	Under Investigation	In progress	Yes	FY 06
21-010(h)	21	1774442.98	1632744.33	Surface Unit	4355	HSWA	Under Investigation	In progress	Yes	FY 06
21-011(a)	21	1774326.28	1632960.34	Surface Unit	9876	HSWA	Under Investigation	In progress	No	FY 05

## TA-21 Site

Identification Code-PRS Number	Location-Technical Area	Location Coordinate Northing	Location Coordinate Easting	Type	Areal Extent (sq. ft.)	Regulatory Driver	Regulatory Status	Status of Investigation	COPCs-Has Sampling Occurred?	Schedule for Completion
21-011(b)	21	1774247.52	1633714.41	Subsurface Unit	481	HSWA	Under Investigation	In progress	No	FY 03
21-011(c)	21	1774501.94	1632745.20	Subsurface Unit	157	HSWA	Under Investigation	In progress	Yes	FY 06
21-011(d)	21	1774328.68	1632922.45	Surface Unit	27	HSWA	Under Investigation	In progress	No	FY 05
21-011(e)	21	1774323.64	1632937.09	Surface Unit	52	HSWA	Under Investigation	In progress	No	FY 05
21-011(f)	21	1774412.48	1632937.09	Surface Unit	54	HSWA	Under Investigation	In progress	No	FY 05
21-011(g)	21	1774404.40	1632949.71	Surface Unit	64	HSWA	Under Investigation	In progress	No	FY 05
21-011(h)	21	1774281.31	1632929.94	Surface Unit	162	Non-HSWA	Under Investigation	In progress	No	FY 05
21-011(i)	21	1774302.44	1632938.10	Surface Unit	83	HSWA	Under Investigation	In progress	No	FY 05
21-011(j)	21	1774302.44	1632938.10	Surface Unit	83	HSWA	Under Investigation	In progress	No	FY 05

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Identification Code-PRS Number	Location-Technical Area	Location Coordinate Northing	Location Coordinate Easting	Type	Areal Extent (sq. ft.)	Regulatory Driver	Regulatory Status	Status of Investigation	COPCs-Has Sampling Occurred?	Schedule for Completion
21-011(k)	21	1774542.07	1633016.72	Outfall	3461	HSWA	Under Investigation	Interim Action	Yes	FY 02
21-012(a)	21	1774101.40	1633185.09	Subsurface Unit	597	HSWA	NFA Concurrence by NMED	Completed	No	FY 98
21-012(b)	21	1774056.15	1633007.75	Subsurface Unit	231	HSWA	Under Investigation	In progress	No	FY 06
21-013(a)	21	1773808.07	1635328.89	Surface Unit	1018	HSWA	Under Investigation	In progress	Yes	FY 03
21-013(b)	21	1774550	1631100	Surface Unit	9800	HWSA	Under Investigation	In progress	Yes	FY 05
21-013(c)	21	1774266.31	1634302.67	Surface Unit	22986	HSWA	Proposed for NFA based on Human Health	Remediation	Yes	FY 01
21-013(d)	21	1775070.81	1631089.14	Surface Unit	6916	HSWA	Proposed for NFA based on Human Health	Remediation	Yes	FY 01
21-013(e)	21	1775194.24	1630754.96	Surface Unit	9497	HSWA	Proposed for NFA based on Human Health	Remediation	Yes	FY 01
21-013(f)	21	1773885.80	1633285.57	Surface Unit	6388	Non-HSWA	Under Investigation	In progress	Yes	FY 04

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Identification Code-PRS Number	Location-Technical Area	Location Coordinate Northing	Location Coordinate Easting	Type	Areal Extent (sq. ft.)	Regulatory Driver	Regulatory Status	Status of Investigation	COPCs-Has Sampling Occurred?	Schedule for Completion
21-013(g)	21	1774448	1631267	Surface Unit	13897	Non-HSWA	Under Investigation	In progress	Yes	FY 05
21-014	21	1774220.96	1633400.58	Material Disposal Unit	77811	HSWA	Under Investigation	In progress	Yes	FY 06
21-015	21	1775073.32	1630142.11	Material Disposal Unit	325431	HSWA	Under Investigation	In progress	Yes	FY 05
21-016(a)	21	Multiple Locations	Multiple Locations	Material Disposal Unit	7259	HSWA	Under Investigation	In progress	Yes	FY 06
21-016(b)	21	Multiple Locations	Multiple Locations	Material Disposal Unit	6676	HSWA	Under Investigation	In progress	Yes	FY 06
21-016(c)	21	Multiple Locations	Multiple Locations	Material Disposal Unit	487	HSWA	Under Investigation	In progress	Yes	FY 06
21-017(a)	21	1774310.77	1634043.75	Material Disposal Unit	15701	HSWA	Under Investigation	In progress	Yes	FY 03
21-017(b)	21	1774310.77	1634043.75	Material Disposal Unit	15701	HSWA	Under Investigation	In progress	Yes	FY 03
21-017(c)	21	1774310.77	1634043.75	Material Disposal Unit	15701	HSWA	Under Investigation	In progress	Yes	FY 03

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Identification Code-PRS Number	Location-Technical Area	Location Coordinate Northing	Location Coordinate Easting	Type	Areal Extent (sq. ft.)	Regulatory Driver	Regulatory Status	Status of Investigation	COPCs-Has Sampling Occurred?	Schedule for Completion
21-018(a)	21	1774620	1631300	Material Disposal Unit	43560	HWSA	Under Investigation	In progress	Yes	FY 05
21-018(b)	21	1774774.00	1631373.72	Surface Unit	9608	HSWA	Under Investigation	In progress	Yes	FY 05
21-019(a)	21	1774406.69	1632325.09	Surface Unit	223	Non-HSWA	NFA Concurrence by DOE	In progress	Yes	FY 01
21-019(b)	21	1774271.06	1632421.31	Surface Unit	235	Non-HSWA	NFA Concurrence by DOE	In progress	Yes	FY 01
21-019(c)	21	1774578.67	1632275.63	Surface Unit	215	Non-HSWA	NFA Concurrence by DOE	In progress	Yes	FY 01
21-019(d)	21	1774174.04	1632662.25	Surface Unit	148	Non-HSWA	NFA Concurrence by DOE	In progress	Yes	FY 01
21-019(e)	21	1774098.81	1633792.27	Surface Unit	341	Non-HSWA	NFA Concurrence by DOE	In progress	Yes	FY 01
21-019(f)	21	1774059.95	1634012.23	Surface Unit	249	Non-HSWA	NFA Concurrence by DOE	In progress	Yes	FY 01
21-019(g)	21	1774286.87	1632980.06	Surface Unit	310	Non-HSWA	NFA Concurrence by DOE	In progress	Yes	FY 01

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21-019(h)	21	1774376.78	1632195.40	Surface Unit	390	Non-HSWA	NFA Concurrence by DOE	In progress	Yes	FY 01
21-019(i)	21	1774322.39	1632366.52	Surface Unit	323	Non-HSWA	NFA Concurrence by DOE	In progress	Yes	FY 01
21-019(j)	21	1774314.62	1632482.46	Surface Unit	270	Non-HSWA	NFA Concurrence by DOE	In progress	Yes	FY 01
21-019(k)	21	1774061.20	1633850.94	Surface Unit	313	Non-HSWA	NFA Concurrence by DOE	In progress	Yes	FY 01
21-019(l)	21	1774074.08	1633920.78	Surface Unit	221	Non-HSWA	NFA Concurrence by DOE	In progress	Yes	FY 01
21-019(m)	21	1774639.34	1632331.99	Surface Unit	154	Non-HSWA	NFA Concurrence by DOE	In progress	Yes	FY 01
21-020(a)	21	1774597.34	1632450.19	Surface Unit	7888	Non-HSWA	NFA Concurrence by DOE	In progress	Yes	FY 05
21-020(b)	21	1774206.11	1634100.22	Surface Unit	5341	Non-HSWA	NFA Concurrence by DOE	In progress	Yes	FY 05
21-021	21	Multiple Locations	Multiple Locations	Surface Unit	10675107	HSWA	Proposed for NFA based on Human Health	In progress	Yes	FY 06

## TA-21 Site

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21-022(a)	21	1774695.71	1632202.82	Subsurface Unit	1019	HSWA	Under Investigation	In progress	No	FY 06
21-022(b)	21	1774505.44	1632231.47	Subsurface Unit	316	HSWA	Under Investigation	In progress	Yes	FY 06
21-022(c)	21	1774459.28	1632367.86	Subsurface Unit	316	HSWA	Under Investigation	In progress	Yes	FY 06
21-022(d)	21	1774416.04	1632498.21	Subsurface Unit	297	HSWA	Under Investigation	In progress	Yes	FY 06
21-022(e)	21	1774367.42	1632618.58	Subsurface Unit	287	HSWA	Under Investigation	In progress	Yes	FY 06
21-022(f)	21	1774176.29	1633939.77	Subsurface Unit	1948	HSWA	Under Investigation	In progress	Yes	FY 02
21-022(g)	21	1774302.90	1632677.83	Subsurface Unit	191	HSWA	Under Investigation	In progress	Yes	FY 06
21-022(h)	21	1773925.16	1632594.56	Subsurface Unit	1853	HSWA	Under Investigation	In progress	Yes	FY 03
21-022(i)	21	1774291.30	1632171.59	Subsurface Unit	77	HSWA	Under Investigation	In progress	Yes	FY 03

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21-022(j)	21	Multiple Locations	Multiple Locations	Subsurface Unit	401	HSWA	Under Investigation	Remediation	Yes	FY 03
21-023(a)	21	1774398.20	1632368.69	Subsurface Unit	97	HSWA	Under Investigation	In progress	No	FY 01
21-023(b)	21	1774415.28	1632367.26	Subsurface Unit	117	HSWA	Under Investigation	In progress	No	FY 01
21-023(c)	21	1774695	1631140	Outfall	255	HSWA	Under Investigation	In progress	Yes	FY 05
21-023(d)	21	1774422.62	1632252.91	Subsurface Unit	135	HSWA	Under Investigation	In progress	No	FY 01
21-024(a)	21	Multiple Locations	Multiple Locations	Outfall	790	HSWA	Under Investigation	In progress	Yes	FY 04
21-024(b)	21	Multiple Locations	Multiple Locations	Outfall	258	HSWA	Under Investigation	In progress	Yes	FY 01
21-024(c)	21	Multiple Locations	Multiple Locations	Outfall	248	HSWA	Under Investigation	In progress	Yes	FY 04
21-024(d)	21	1774167.84	1631841.24	Outfall	2269	HSWA	Proposed for NFA based on Human Health	Remediation	Yes	FY 03

## TA-21 Site

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21-024(e)	21	Multiple Locations	Multiple Locations	Outfall	532	HSWA	Proposed for NFA based on Human Health	Remediation	Yes	FY 02
21-024(f)	21	Multiple Locations	Multiple Locations	Outfall	4878	HSWA	Proposed for NFA based on Human Health	In progress	Yes	FY 03
21-024(g)	21	1775034.19	1631837.61	Outfall	3919	HSWA	Proposed for NFA based on Human Health	In progress	Yes	FY 02
21-024(h)	21	1774391.35	1633686.96	Outfall	1993	HSWA	Proposed for NFA based on Human Health	Remediation	Yes	FY 03
21-024(i)	21	Multiple Locations	Multiple Locations	Outfall	1439	HSWA	Under Investigation	In progress	Yes	FY 00
21-024(j)	21	1773975.76	1633688.80	Outfall	75	HSWA	Under Reconsideration	Completed	Yes	FY 03
21-024(k)	21	1773823.09	1633746.66	Subsurface Unit	1361	HSWA	Under Reconsideration	Completed	Yes	FY 03
21-024(l)	21	1774680.31	1632193.77	Outfall	23467	HSWA	Proposed for NFA based on Human Health	In progress	Yes	FY 03
21-024(m)	21	1773783.15	1633973.08	Outfall	3774	HSWA	NFA Concurrence by NMED	Completed	Yes	FY 98

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21-024(n)	21	1774310.15	1633910.08	Outfall	3183	HSWA	Under Reconsideration	Completed	Yes	FY 05
21-024(o)	21	Multiple Locations	Multiple Locations	Outfall	460	HSWA	Under Reconsideration	Completed	Yes	FY 02
21-025(a)	21	1774145.87	1633784.26	Subsurface Unit	1	Non-HSWA	NFA Concurrence by DOE	Completed	No	FY 00
21-025(b)	21	1774095.87	1634018.23	Subsurface Unit	1	Non-HSWA	NFA Concurrence by DOE	Completed	No	FY 00
21-026(a)	21	1773738.66	1635134.08	Subsurface Unit	2971	HSWA	Proposed for NFA based on Human Health	In progress	Yes	FY 06
21-026(b)	21	1773739.04	1635189.93	Surface Unit	9236	HSWA	Proposed for NFA based on Human Health	In progress	Yes	FY 06
21-026(c)	21	1773710.16	1635172.84	Subsurface Unit	1535	Non-HSWA	Proposed for NFA based on Human Health	In progress	Yes	FY 06
21-026(d)	21	1773861.91	1635286.76	Outfall	2963	Non-HSWA	Proposed for NFA based on Human Health	In progress	Yes	FY 03
21-027(a)	21	Multiple Locations	Multiple Locations	Surface Unit	3787	HSWA	Under Investigation	In progress	Yes	FY 04

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21-027(b)	21	1773783.15	1633973.08	Outfall	3774	HSWA	NFA Concurrence by NMED	Completed	Yes	FY 98
21-027(c)	21	1774180.16	1631987.93	Outfall	1986	HSWA	Proposed for NFA based on Human Health	In progress	Yes	FY 04
21-027(d)	21	1774630	1630980	Outfall	12000	HSWA	Under Investigation	In progress	Yes	FY 05
21-028(a)	21	1774507.37	1632733.95	Surface Unit	1	Non-HSWA	Under Investigation	In progress	Yes	FY 06
21-028(b)	21	1774247.94	1632680.20	Surface Unit	110	Non-HSWA	NFA Concurrence by DOE	Completed	No	FY 06
21-028(c)	21	1774421.45	1632364.14	Surface Unit	2306	Non-HSWA	Under Investigation	In progress	No	FY 06
21-028(d)	21	1774145.85	1633974.89	Surface Unit	4779	Non-HSWA	Proposed for NFA based on Human Health	In progress	Yes	FY 06
21-028(e)	21	1774601.02	1631932.49	Surface Unit	200	Non-HSWA	NFA Concurrence by DOE	Completed	Yes	FY 06
C-21-001	21	1774285.24	1632517.23	Surface Unit	1	Non-HSWA	Under Investigation	In progress	No	FY 06

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Identification Code-PRS Number	Location-Technical Area	Location Coordinate Northing	Location Coordinate Easting	Type	Areal Extent (sq. ft.)	Regulatory Driver	Regulatory Status	Status of Investigation	COPCs-Has Sampling Occurred?	Schedule for Completion
C-21-002	21	1774431.62	1632732.95	Surface Unit	1	Non-HSWA	NFA Concurrence by DOE	In progress	No	FY 06
C-21-003	21	1774292.87	1632187.66	Surface Unit	1	Non-HSWA	NFA Concurrence by DOE	In progress	No	FY 06
C-21-004	21	1774237.24	1632099.94	Surface Unit	1	Non-HSWA	NFA Concurrence by DOE	In progress	No	FY 06
C-21-005	21	1774360.49	1632889.41	Surface Unit	1	Non-HSWA	Under Investigation	In progress	No	FY 06
C-21-006	21	1774336.74	1632084.54	Surface Unit	1	Non-HSWA	Under Investigation	In progress	No	FY 06
C-21-007	21	1774321.99	1632971.23	Surface Unit	1	Non-HSWA	Under Investigation	In progress	No	FY 06
C-21-008	21	1774241.87	1632382.07	Surface Unit	1	Non-HSWA	NFA Concurrence by DOE	In progress	No	FY 06
C-21-009	21	1774451.12	1632845.53	Surface Unit	1	Non-HSWA	Under Investigation	In progress	Yes	FY 06
C-21-010	21	1774431.62	1632740.07	Surface Unit	1	Non-HSWA	NFA Concurrence by DOE	In progress	No	FY 06

## TA-21 Site

Identification Code-PRS Number	Location-Technical Area	Location Coordinate Northing	Location Coordinate Easting	Type	Areal Extent (sq. ft.)	Regulatory Driver	Regulatory Status	Status of Investigation	COPCs-Has Sampling Occurred?	Schedule for Completion
C-21-011	21	1773998.37	1633770.17	Surface Unit	1	Non-HSWA	NFA Concurrence by DOE	In progress	No	FY 06
C-21-012	21	1774543.62	1632709.26	Surface Unit	1	Non-HSWA	Under Investigation	In progress	Yes	FY 06
C-21-013	21	1774791.99	1632056.10	Subsurface Unit	1	Non-HSWA	NFA Concurrence by DOE	Completed	No	FY 06
C-21-014	21	1774739.24	1632561.07	Surface Unit	1	Non-HSWA	NFA Concurrence by DOE	Completed	No	FY 06
C-21-015	21	1774950	1631300	Subsurface Unit	2000	Non-HSWA	NFA Concurrence by DOE	In progress	No	FY 00
C-21-016	21	1775063.37	1631517.95	Surface Unit	1	Non-HSWA	NFA Concurrence by DOE	In progress	No	FY 06
C-21-017	21	1775087.12	1631439.70	Surface Unit	1	Non-HSWA	NFA Concurrence by DOE	In progress	No	FY 06
C-21-018	21	1775115.62	1631373.32	Surface Unit	1	Non-HSWA	NFA Concurrence by DOE	In progress	No	FY 06
C-21-019	21	1775148.74	1631311.66	Surface Unit	1	Non-HSWA	NFA Concurrence by DOE	In progress	No	FY 06

## TA-21 Site

Identification Code-PRS Number	Location-Technical Area	Location Coordinate Northing	Location Coordinate Easting	Type	Areal Extent (sq. ft.)	Regulatory Driver	Regulatory Status	Status of Investigation	COPCs-Has Sampling Occurred?	Schedule for Completion
C-21-020	21	1775172.49	1631257.13	Surface Unit	1	Non-HSWA	NFA Concurrence by DOE	In progress	No	FY 06
C-21-021	21	1775205.62	1631200.26	Surface Unit	1	Non-HSWA	NFA Concurrence by DOE	In progress	No	FY 06
C-21-022	21	1774567.37	1632525.51	Surface Unit	1	Non-HSWA	NFA Concurrence by DOE	In progress	No	FY 06
C-21-023	21	1774076.62	1633428.79	Surface Unit	1	Non-HSWA	NFA Concurrence by DOE	In progress	No	FY 06
C-21-024	21	1774751.62	1631958.88	Surface Unit	1	Non-HSWA	NFA Concurrence by DOE	In progress	No	FY 06
C-21-025	21	1774435.12	1631963.63	Surface Unit	1	Non-HSWA	NFA Concurrence by DOE	In progress	No	FY 06
C-21-026	21	1774152.37	1633741.73	Surface Unit	1	Non-HSWA	NFA Concurrence by DOE	In progress	No	FY 06
C-21-027	21	1774205.11	1632223.22	Surface Unit	1	Non-HSWA	Proposed for NFA based on Human Health	Remediation	Yes	FY 06
C-21-028	21	1774885.62	1631238.19	Surface Unit	1	Non-HSWA	NFA Concurrence by DOE	In progress	No	FY 06

## TA-21 Site

Identification Code-PRS Number	Location-Technical Area	Location Coordinate Northing	Location Coordinate Easting	Type	Areal Extent (sq. ft.)	Regulatory Driver	Regulatory Status	Status of Investigation	COPCs-Has Sampling Occurred?	Schedule for Completion
C-21-029	21	1774633.12	1631480.01	Surface Unit	1	Non-HSWA	NFA Concurrence by DOE	In progress	No	FY 06
C-21-030	21	1774710	1631170	Surface Unit	1	Non-HSWA	Under Investigation	In progress	No	FY 06
C-21-031	21	1774368.74	1632108.26	Subsurface Unit	1	Non-HSWA	Under Investigation	In progress	No	FY 06
C-21-032	21	1773995.99	1633869.76	Subsurface Unit	1	Non-HSWA	Under Investigation	In progress	No	FY 06
C-21-033	21	1774319.62	1632975.95	Surface Unit	1	Non-HSWA	Under Investigation	In progress	No	FY 06
C-21-034	21	1774389.49	1632702.13	Subsurface Unit	1	Non-HSWA	Under Investigation	In progress	Yes	FY 06
C-21-035	21	1774340.87	1632796.98	Surface Unit	1	Non-HSWA	Under Investigation	In progress	Yes	FY 06
C-21-036	21	1774355.12	1632775.63	Surface Unit	1	Non-HSWA	Under Investigation	In progress	Yes	FY 06
C-21-037	21	1774372.87	1632730.57	Surface Unit	1	Non-HSWA	Under Investigation	In progress	Yes	FY 06

## TA-21 Site

<b>Identification Code-PRS Number</b>	<b>Location-Technical Area</b>	<b>Location Coordinate Northing</b>	<b>Location Coordinate Easting</b>	<b>Type</b>	<b>Areal Extent (sq. ft.)</b>	<b>Regulatory Driver</b>	<b>Regulatory Status</b>	<b>Status of Investigation</b>	<b>COPCs-Has Sampling Occurred?</b>	<b>Schedule for Completion</b>
DP Canyon	21	Multiple Locations	Multiple Locations	Canyon		Non-HSWA	Under Investigation	In progress	No	FY 01
LA Canyon	21	Multiple Locations	Multiple Locations	Canyon		Non-HSWA	Under Investigation	In progress	No	FY 02
Sitewide Excavation	21	Multiple Locations	Multiple Locations	Surface Unit	10675107	Non-HSWA	Under Investigation	In progress	Yes	FY 08

## TA-74 Site

Identification Code-PRS Number	Location-Technical Area	Location Coordinate Northing	Location Coordinate Easting	Type	Areal Extent (sq. ft.)	Regulatory Driver	Regulatory Status	Status of Investigation	COPCs-Has Sampling Occurred?	Schedule for Completion
19-001	19	1774193.51	1641743.60	Outfall	27	HSWA	Proposed for NFA based on Human Health	Remediation	Yes	FY 06
19-002	19	1774308.77	1641893.72	Subsurface Unit	15845	HSWA	Proposed for NFA based on Human Health	Remediation	Yes	FY 06
19-003	19	1774145.82	1641936.72	Outfall	66	HSWA	Proposed for NFA based on Human Health	In progress	Yes	FY 06
C-00-004	0	Multiple Locations	Multiple Locations	Canyon	0	Non-HSWA	Under Investigation	In progress	Yes	FY 00
C-00-005	0	Multiple Locations	Multiple Locations	Canyon	5425011	Non-HSWA	Under Investigation	In progress	Yes	FY 00
C-19-001	19	1774114.39	1641856.47	Surface Unit	58879	Non-HSWA	Proposed for NFA based on Human Health	In progress	Yes	FY 06

## White Rock Site

<b>Identification Code-PRS Number</b>	<b>Location-Technical Area</b>	<b>Location Coordinate Northing</b>	<b>Location Coordinate Easting</b>	<b>Type</b>	<b>Areal Extent (sq. ft.)</b>	<b>Regulatory Driver</b>	<b>Regulatory Status</b>	<b>Status of Investigation</b>	<b>COPCs-Has Sampling Occurred?</b>	<b>Schedule for Completion</b>
C-00-009	0	Multiple Locations	Multiple Locations	Canyon	51667	Non-HSWA	Under Investigation	In progress	Yes	FY 00

## White Rock Y

<b>Identification Code-PRS Number</b>	<b>Location-Technical Area</b>	<b>Location Coordinate Northing</b>	<b>Location Coordinate Easting</b>	<b>Type</b>	<b>Areal Extent (sq. ft.)</b>	<b>Regulatory Driver</b>	<b>Regulatory Status</b>	<b>Status of Investigation</b>	<b>COPCs-Has Sampling Occurred?</b>	<b>Schedule for Completion</b>
C-00-006	0	Multiple Locations	Multiple Locations	Canyon	12917	Non-HSWA	Under Investigation	In progress	Yes	FY 01
C-00-007	0	Multiple Locations	Multiple Locations	Canyon	77500	Non-HSWA	Under Investigation	In progress	Yes	FY 00

# *PRS Report for Land Use Scenario 1*

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*\*\*Does not include the following  
Parcels:*

*Site 22  
Monument Site*

## Airport Site

**Proposed**

**Commercial and Industrial Development**

**Land Use**

PRS	Proposed Remedy	Expected Volume of Contaminated Material (cu. yards)								Estimated Cost	Baseline Scope - FY 99	Aggregation
		Solid	Hazardous	LLW	Mixed	PCB	PCB/Mixed	TRU	Asbestos			
00-034(a)	In Situ Containment	1	0	0	0	0	0	0	0	\$544,305	PRS In/Remedy Different	
73-001(a)	In Situ Containment	20000	0	0	0	0	0	0	0	\$13,091,470	PRS In/Remedy Different	
73-001(b)	In Situ Containment	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 73-001(a)
73-001(c)	In Situ Containment	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 73-001(a)
73-001(d)	In Situ Containment	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 73-001(a)
73-002	Removal	4000	0	400	0	0	0	0	0	\$12,398,751	PRS In/Remedy Different	
73-003	In Situ Containment	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 73-004(a)
73-004(a)	In Situ Containment	20	0	0	0	0	0	0	0	\$663,856	PRS In/Remedy Different	

**Airport Site**

**Proposed**

**Commercial and Industrial Development**

**Land Use**

<i>PRS</i>	<i>Proposed Remedy</i>	<i>Expected Volume of Contaminated Material (cu. yards)</i>								<i>Estimated Cost</i>	<i>Baseline Scope - FY 99</i>	<i>Aggregation</i>
		<i>Solid</i>	<i>Hazardous</i>	<i>LLW</i>	<i>Mixed</i>	<i>PCB</i>	<i>PCB/Mixed</i>	<i>TRU</i>	<i>Asbestos</i>			
73-004(b)	In Situ Containment	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 73-004(a)
73-004(c)	No Action	0	0	0	0	0	0	0	0	\$13,608	PRS Out	
73-004(d)	In Situ Containment	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 73-001(a)
73-005	Removal	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with C-73-005(a)
73-006	In Situ Containment	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 73-004(a)
73-007	Removal	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with C-73-005(a)
C-31-001	No Action	0	0	0	0	0	0	0	0	\$677,937	PRS Out	
C-73-001	No Action	0	0	0	0	0	0	0	0	\$13,975	PRS Out	

## Airport Site

<b>Proposed</b>		<b>Commercial and Industrial Development</b>								<b>Land Use</b>		
<b>PRS</b>	<b>Proposed Remedy</b>	<b>Expected Volume of Contaminated Material (cu. yards)</b>								<b>Estimated Cost</b>	<b>Baseline Scope - FY 99</b>	<b>Aggregation</b>
		<b>Solid</b>	<b>Hazardous</b>	<b>LLW</b>	<b>Mixed</b>	<b>PCB</b>	<b>PCB/Mixed</b>	<b>TRU</b>	<b>Asbestos</b>			
C-73-002	No Action	0	0	0	0	0	0	0	0	\$0	PRS Out	Aggregated with C-73-001
C-73-003	No Action	0	0	0	0	0	0	0	0	\$0	PRS Out	Aggregated with C-73-001
C-73-004	No Action	0	0	0	0	0	0	0	0	\$0	PRS Out	Aggregated with C-73-001
C-73-005(a)	Removal	35	0	0	0	0	0	0	0	\$814,036	PRS In/Remedy Different	
C-73-005(b)	Removal	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with C-73-005(a)
C-73-005(c)	Removal	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with C-73-005(a)
C-73-005(d)	Removal	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with C-73-005(a)
C-73-005(e)	Removal	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with C-73-005(a)

**Airport Site**

**Proposed**

**Commercial and Industrial Development**

**Land Use**

<i>PRS</i>	<i>Proposed Remedy</i>	<i>Expected Volume of Contaminated Material (cu. yards)</i>								<i>Estimated Cost</i>	<i>Baseline Scope - FY 99</i>	<i>Aggregation</i>
		<i>Solid</i>	<i>Hazardous</i>	<i>LLW</i>	<i>Mixed</i>	<i>PCB</i>	<i>PCB/Mixed</i>	<i>TRU</i>	<i>Asbestos</i>			
C-73-005(f)	Removal	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with C-73-005(a)

<i>Total Number of PRSs in Parcel:</i>	<i>Total Solid</i>	<i>Total Hazardous</i>	<i>Total LLW</i>	<i>Total Mixed</i>	<i>Total PCB</i>	<i>Total PCB/Mixed</i>	<i>Total TRU</i>	<i>Total Asbestos</i>	<i>Total Cost</i>
25	24056	0	400	0	0	0	0	0	\$28,217,937.1

**DOE LAAO Site**

**Proposed**

**Commercial Development**

**Land Use**

<i>PRS</i>	<i>Proposed Remedy</i>	<i>Expected Volume of Contaminated Material (cu. yards)</i>								<i>Estimated Cost</i>	<i>Baseline Scope - FY 99</i>	<i>Aggregation</i>
		<i>Solid</i>	<i>Hazardous</i>	<i>LLW</i>	<i>Mixed</i>	<i>PCB</i>	<i>PCB/Mixed</i>	<i>TRU</i>	<i>Asbestos</i>			
00-003	Removal	1	0	0	0	0	0	0	0	\$469,229	PRS In/Remedy Different	
00-012	Removal	83	0	0	0	0	0	0	0	\$726,656	PRS In/Remedy Different	
00-030(i)	Removal	10	0	0	0	0	0	0	0	\$601,938	PRS In/Remedy Different	

<i>Total Number of PRSs in Parcel:</i>	<i>Total Solid</i>	<i>Total Hazardous</i>	<i>Total LLW</i>	<i>Total Mixed</i>	<i>Total PCB</i>	<i>Total PCB/Mixed</i>	<i>Total TRU</i>	<i>Total Asbestos</i>	<i>Total Cost</i>
3	94	0	0	0	0	0	0	0	\$1,797,822.6

**DP Road Site**

**Proposed**

**Commercial and Industrial Development**

**Land Use**

PRS	Proposed Remedy	Expected Volume of Contaminated Material (cu. yards)								Estimated Cost	Baseline Scope - FY 99	Aggregation
		Solid	Hazardous	LLW	Mixed	PCB	PCB/Mixed	TRU	Asbestos			
00-004	Removal	0	10	0	0	0	0	0	50	\$247,056	PRS In/Remedy Different	
00-010(a)	No Action	0	0	0	0	0	0	0	0	\$356,876	PRS In/Remedy Different	
00-010(b)	No Action	0	0	0	0	0	0	0	0	\$421,396	PRS In/Remedy Different	
00-027	In Situ Containment	10	0	0	0	0	0	0	0	\$2,511,795	PRS In/Remedy Different	
00-030(b)	In Situ Containment	0	0	0	0	0	0	0	0	\$474,542	PRS In/Remedy Different	
00-030(l)	No Action	0	0	0	0	0	0	0	0	\$471,586	PRS In/Remedy Different	
00-030(m)	No Action	0	0	0	0	0	0	0	0	\$584,166	PRS In/Remedy Different	
00-033(a)	Removal	0	740	0	0	0	0	0	0	\$1,820,216	PRS In/Remedy Different	

**DP Road Site**

**Proposed**

**Commercial and Industrial Development**

**Land Use**

<i>PRS</i>	<i>Proposed Remedy</i>	<i>Expected Volume of Contaminated Material (cu. yards)</i>								<i>Estimated Cost</i>	<i>Baseline Scope - FY 99</i>	<i>Aggregation</i>
		<i>Solid</i>	<i>Hazardous</i>	<i>LLW</i>	<i>Mixed</i>	<i>PCB</i>	<i>PCB/Mixed</i>	<i>TRU</i>	<i>Asbestos</i>			
00-033(b)	Removal	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 00-033(a)
21-029	Removal	0	0	0	0	0	0	0	0	\$1,503,197	PRS In/Remedy Different	
DP Canyon2	No Action	0	0	0	0	0	0	0	0	\$786,036	PRS In/Remedy Different	

<i>Total Number of PRSs in Parcel:</i>	<i>Total Solid</i>	<i>Total Hazardous</i>	<i>Total LLW</i>	<i>Total Mixed</i>	<i>Total PCB</i>	<i>Total PCB/Mixed</i>	<i>Total TRU</i>	<i>Total Asbestos</i>	<i>Total Cost</i>
11	10	750	0	0	0	0	0	50	\$9,176,865.5

## Rendija Canyon

**Proposed**

**Preservation**

**Land Use**

PRS	Proposed Remedy	Expected Volume of Contaminated Material (cu. yards)								Estimated Cost	Baseline Scope - FY 99	Aggregation
		Solid	Hazardous	LLW	Mixed	PCB	PCB/Mixed	TRU	Asbestos			
00-011(a)	No Action	0	0	0	0	0	0	0	0	\$304,088	PRS In/Remedy Different	
00-011(c)	Removal	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 00-011(a)
00-011(e)	Removal	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 00-011(a)
00-015	Removal	0	7500	0	0	0	0	0	0	\$17,804,828	PRS Out	
C-00-002	No Action	0	0	0	0	0	0	0	0	\$943,851	PRS In/Remedy Different	

Total Number of PRSs in Parcel:	Total Solid	Total Hazardous	Total LLW	Total Mixed	Total PCB	Total PCB/Mixed	Total TRU	Total Asbestos	Total Cost
5	0	7500	0	0	0	0	0	0	\$19,052,767.2

**TA-21 Site**

**Proposed**

**Commercial and Industrial Development**

**Land Use**

<i>PRS</i>	<i>Proposed Remedy</i>	<i>Expected Volume of Contaminated Material (cu. yards)</i>								<i>Estimated Cost</i>	<i>Baseline Scope - FY 99</i>	<i>Aggregation</i>
		<i>Solid</i>	<i>Hazardous</i>	<i>LLW</i>	<i>Mixed</i>	<i>PCB</i>	<i>PCB/Mixed</i>	<i>TRU</i>	<i>Asbestos</i>			
21-001	In Situ Containment	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-016(a)
21-002(a)	No Action	0	0	0	0	0	0	0	0	\$7,176	PRS In/Remedy Different	
21-002(b)	No Action	0	0	0	0	0	0	0	0	\$282,449	PRS In/Remedy Different	
21-003	In Situ Treatment	0	0	0	91	0	0	0	0	\$6,637,465	PRS In/Remedy Different	
21-004(a)	Aggregated with D&D of Associated Structure	0	0	0	0	0	0	0	0	\$295,308	PRS In/Remedy Different	
21-004(b)	No Action	0	0	0	0	0	0	0	0	\$287,739	PRS In/Remedy Different	
21-004(c)	No Action	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-004(b)
21-004(d)	No Action	0	0	0	0	0	0	0	0	\$406,212	PRS Out	

**TA-21 Site**

<i>PRS</i>	<i>Proposed Remedy</i>	<i>Expected Volume of Contaminated Material (cu. yards)</i>								<i>Estimated Cost</i>	<i>Baseline Scope - FY 99</i>	<i>Aggregation</i>
		<i>Solid</i>	<i>Hazardous</i>	<i>LLW</i>	<i>Mixed</i>	<i>PCB</i>	<i>PCB/Mixed</i>	<i>TRU</i>	<i>Asbestos</i>			
21-005	No Action	0	0	0	0	0	0	0	0	\$294,208	PRS In/Remedy Different	
21-006(a)	Removal	0	0	16	0	0	0	10	0	\$2,299,954	PRS In/Remedy Different	
21-006(b)	Removal	0	0	3	91	0	0	0	0	\$351,250	PRS In/Remedy Different	
21-006(c)	Removal	0	0	5	0	0	0	0	0	\$569,421	PRS In/Remedy Different	
21-006(d)	Removal	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-006(c)
21-006(e)	No Action	0	0	0	0	0	0	0	0	\$302,577	PRS In/Remedy Different	
21-006(f)	No Action	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-006(e)
21-007	No Action	0	0	0	0	0	0	0	0	\$82,123	PRS In/Remedy Different	

**TA-21 Site**

<i>PRs</i>	<i>Proposed Remedy</i>	<i>Expected Volume of Contaminated Material (cu. yards)</i>								<i>Estimated Cost</i>	<i>Baseline Scope - FY 99</i>	<i>Aggregation</i>
		<i>Solid</i>	<i>Hazardous</i>	<i>LLW</i>	<i>Mixed</i>	<i>PCB</i>	<i>PCB/Mixed</i>	<i>TRU</i>	<i>Asbestos</i>			
<i>Proposed</i>											<i>Land Use</i>	
21-008	No Action	0	0	0	0	0	0	0	0	\$243,846	PRs In/Remedy Different	
21-009	In Situ Containment	0	0	0	0	0	0	0	0	\$231,166	PRs In/Remedy Different	
21-010(a)	In Situ Containment	0	0	0	0	0	0	0	0	\$0	PRs In/Remedy Different	Aggregated with 21-016(a)
21-010(b)	In Situ Containment	0	0	0	0	0	0	0	0	\$0	PRs In/Remedy Different	Aggregated with 21-016(a)
21-010(c)	In Situ Containment	0	0	0	0	0	0	0	0	\$0	PRs In/Remedy Different	Aggregated with 21-016(a)
21-010(d)	In Situ Containment	0	0	0	0	0	0	0	0	\$0	PRs In/Remedy Different	Aggregated with 21-016(a)
21-010(e)	In Situ Containment	0	0	0	0	0	0	0	0	\$0	PRs In/Remedy Different	Aggregated with 21-016(a)
21-010(f)	In Situ Containment	0	0	0	0	0	0	0	0	\$0	PRs In/Remedy Different	Aggregated with 21-016(a)

**TA-21 Site**

**Proposed**

**Commercial and Industrial Development**

**Land Use**

<i>PRS</i>	<i>Proposed Remedy</i>	<i>Expected Volume of Contaminated Material (cu. yards)</i>								<i>Estimated Cost</i>	<i>Baseline Scope - FY 99</i>	<i>Aggregation</i>
		<i>Solid</i>	<i>Hazardous</i>	<i>LLW</i>	<i>Mixed</i>	<i>PCB</i>	<i>PCB/Mixed</i>	<i>TRU</i>	<i>Asbestos</i>			
21-010(g)	In Situ Containment	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-016(a)
21-010(h)	In Situ Containment	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-016(a)
21-011(a)	No Action	0	0	0	0	0	0	0	0	\$1,391,526	PRS In/Remedy Different	
21-011(b)	Removal	0	0	89	0	0	0	0	0	\$1,090,034	PRS In/Remedy Different	
21-011(c)	In Situ Containment	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-016(a)
21-011(d)	No Action	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-011(a)
21-011(e)	No Action	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-011(a)
21-011(f)	No Action	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-011(a)

**TA-21 Site**

**Proposed**

**Commercial and Industrial Development**

**Land Use**

<i>PRS</i>	<i>Proposed Remedy</i>	<i>Expected Volume of Contaminated Material (cu. yards)</i>								<i>Estimated Cost</i>	<i>Baseline Scope - FY 99</i>	<i>Aggregation</i>
		<i>Solid</i>	<i>Hazardous</i>	<i>LLW</i>	<i>Mixed</i>	<i>PCB</i>	<i>PCB/Mixed</i>	<i>TRU</i>	<i>Asbestos</i>			
21-011(g)	No Action	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-011(a)
21-011(h)	No Action	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-011(a)
21-011(i)	No Action	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-011(a)
21-011(j)	No Action	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-011(a)
21-011(k)	Removal	0	0	2000	0	0	0	0	0	\$9,123,162	PRS In/Remedy Different	
21-012(a)	No Action	0	0	0	0	0	0	0	0	\$0	PRS Out	
21-012(b)	No Action	16	0	0	0	0	0	0	0	\$662,932	PRS In/Remedy Different	
21-013(a)	No Action	0	0	0	0	0	0	0	0	\$283,432	PRS In/Remedy Different	

**TA-21 Site**

<i>PRS</i>	<i>Proposed Remedy</i>	<i>Expected Volume of Contaminated Material (cu. yards)</i>								<i>Estimated Cost</i>	<i>Baseline Scope - FY 99</i>	<i>Aggregation</i>
		<i>Solid</i>	<i>Hazardous</i>	<i>LLW</i>	<i>Mixed</i>	<i>PCB</i>	<i>PCB/Mixed</i>	<i>TRU</i>	<i>Asbestos</i>			
21-013(b)	Removal	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-018(a)
21-013(c)	No Action	0	0	0	0	0	0	0	0	\$1,084,345	PRS In/Remedy Different	
21-013(d)	No Action	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-013(c)
21-013(e)	No Action	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-013(c)
21-013(f)	In Situ Treatment	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-003
21-013(g)	Removal	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-018(a)
21-014	In Situ Containment	0	0	13	0	0	0	13	0	\$7,175,583	PRS In/Remedy Different	
21-015	In Situ Containment	150	0	177	0	0	0	0	0	\$21,440,417	PRS In/Remedy Different	

**TA-21 Site**

**Proposed**

**Commercial and Industrial Development**

**Land Use**

PRS	Proposed Remedy	Expected Volume of Contaminated Material (cu. yards)								Estimated Cost	Baseline Scope - FY 99	Aggregation
		Solid	Hazardous	LLW	Mixed	PCB	PCB/Mixed	TRU	Asbestos			
21-016(a)	In Situ Containment	0	0	53	0	0	0	0	0	\$7,788,278	PRS In/Remedy Different	
21-016(b)	In Situ Containment	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-016(a)
21-016(c)	In Situ Containment	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-016(a)
21-017(a)	Removal	0	0	13	0	0	0	0	0	\$20,694,769	PRS In/Remedy Different	
21-017(b)	Removal	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-017(a)
21-017(c)	Removal	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-017(a)
21-018(a)	Removal	0	0	7	14	0	0	0	0	\$59,796,603	PRS In/Remedy Different	
21-018(b)	Removal	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-018(a)

**TA-21 Site**

**Proposed Commercial and Industrial Development Land Use**

<i>PRS</i>	<i>Proposed Remedy</i>	<i>Expected Volume of Contaminated Material (cu. yards)</i>								<i>Estimated Cost</i>	<i>Baseline Scope - FY 99</i>	<i>Aggregation</i>
		<i>Solid</i>	<i>Hazardous</i>	<i>LLW</i>	<i>Mixed</i>	<i>PCB</i>	<i>PCB/Mixed</i>	<i>TRU</i>	<i>Asbestos</i>			
21-019(a)	No Action	0	0	0	0	0	0	0	0	\$114,161	PRS In/Remedy Different	
21-019(b)	No Action	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-019(a)
21-019(c)	No Action	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-019(a)
21-019(d)	No Action	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-019(a)
21-019(e)	No Action	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-019(a)
21-019(f)	No Action	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-019(a)
21-019(g)	No Action	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-019(a)
21-019(h)	No Action	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-019(a)

**TA-21 Site**

<i>PRS</i>	<i>Proposed Remedy</i>	<i>Expected Volume of Contaminated Material (cu. yards)</i>								<i>Estimated Cost</i>	<i>Baseline Scope - FY 99</i>	<i>Aggregation</i>
		<i>Solid</i>	<i>Hazardous</i>	<i>LLW</i>	<i>Mixed</i>	<i>PCB</i>	<i>PCB/Mixed</i>	<i>TRU</i>	<i>Asbestos</i>			
		<i>Commercial and Industrial Development</i>										
21-019(i)	No Action	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-019(a)
21-019(j)	No Action	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-019(a)
21-019(k)	No Action	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-019(a)
21-019(l)	No Action	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-019(a)
21-019(m)	No Action	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-019(a)
21-020(a)	No Action	0	0	0	0	0	0	0	0	\$399,030	PRS In/Remedy Different	
21-020(b)	No Action	0	0	0	0	0	0	0	0	\$392,422	PRS In/Remedy Different	
21-021	No Action	0	0	0	0	0	0	0	0	\$3,461,571	PRS In/Remedy Different	

**TA-21 Site**

<i>PRs</i>	<i>Proposed Remedy</i>	<i>Expected Volume of Contaminated Material (cu. yards)</i>								<i>Estimated Cost</i>	<i>Baseline Scope - FY 99</i>	<i>Aggregation</i>
		<i>Solid</i>	<i>Hazardous</i>	<i>LLW</i>	<i>Mixed</i>	<i>PCB</i>	<i>PCB/Mixed</i>	<i>TRU</i>	<i>Asbestos</i>			
21-022(a)	Removal	0	0	45	0	0	0	0	0	\$1,053,359	PRs In/Remedy Different	
21-022(b)	Removal	0	0	620	0	0	0	31	0	\$8,010,938	PRs In/Remedy Different	
21-022(c)	Removal	0	0	0	0	0	0	0	0	\$0	PRs In/Remedy Different	Aggregated with 21-022(b)
21-022(d)	Removal	0	0	0	0	0	0	0	0	\$0	PRs In/Remedy Different	Aggregated with 21-022(b)
21-022(e)	Removal	0	0	0	0	0	0	0	0	\$0	PRs In/Remedy Different	Aggregated with 21-022(b)
21-022(f)	Removal	0	0	42	0	0	0	0	0	\$966,289	PRs In/Remedy Different	
21-022(g)	Removal	0	0	0	0	0	0	0	0	\$0	PRs In/Remedy Different	Aggregated with 21-022(b)
21-022(h)	Removal	0	0	26	0	0	0	0	0	\$1,133,237	PRs In/Remedy Different	

**TA-21 Site**

**Proposed**

**Commercial and Industrial Development**

**Land Use**

<i>PRS</i>	<i>Proposed Remedy</i>	<i>Expected Volume of Contaminated Material (cu. yards)</i>								<i>Estimated Cost</i>	<i>Baseline Scope - FY 99</i>	<i>Aggregation</i>
		<i>Solid</i>	<i>Hazardous</i>	<i>LLW</i>	<i>Mixed</i>	<i>PCB</i>	<i>PCB/Mixed</i>	<i>TRU</i>	<i>Asbestos</i>			
21-022(i)	Removal	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-022(h)
21-022(j)	Removal	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-022(h)
21-023(a)	No Action	0	0	0	0	0	0	0	0	\$345,585	PRS In/Remedy Different	
21-023(b)	No Action	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-023(a)
21-023(c)	In Situ Containment	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-018(a)
21-023(d)	No Action	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-023(a)
21-024(a)	Removal	32	0	0	0	0	0	0	0	\$861,676	PRS In/Remedy Different	
21-024(b)	Removal	0	0	65	0	34	0	0	0	\$1,474,923	PRS In/Remedy Different	

**TA-21 Site**

**Proposed**

**Commercial and Industrial Development**

**Land Use**

<i>PRS</i>	<i>Proposed Remedy</i>	<i>Expected Volume of Contaminated Material (cu. yards)</i>								<i>Estimated Cost</i>	<i>Baseline Scope - FY 99</i>	<i>Aggregation</i>
		<i>Solid</i>	<i>Hazardous</i>	<i>LLW</i>	<i>Mixed</i>	<i>PCB</i>	<i>PCB/Mixed</i>	<i>TRU</i>	<i>Asbestos</i>			
21-024(c)	Removal	0	0	0	0	14	20	0	0	\$2,262,574	PRS In/Remedy Different	
21-024(d)	Removal	0	0	94	0	0	0	0	0	\$1,740,508	PRS In/Remedy Different	
21-024(e)	Removal	0	0	38	0	0	0	0	0	\$1,709,170	PRS In/Remedy Different	
21-024(f)	Removal	0	0	16	0	0	0	0	0	\$1,567,491	PRS In/Remedy Different	
21-024(g)	Removal	34	0	0	0	0	0	0	0	\$851,533	PRS In/Remedy Different	
21-024(h)	Removal	0	0	0	27	0	0	0	0	\$1,511,721	PRS In/Remedy Different	
21-024(i)	Removal	0	0	34	15	0	20	0	0	\$2,525,783	PRS In/Remedy Different	
21-024(j)	Removal	38	0	0	0	0	0	0	0	\$787,118	PRS In/Remedy Different	

## TA-21 Site

PRs	Proposed Remedy	Expected Volume of Contaminated Material (cu. yards)								Estimated Cost	Baseline Scope - FY 99	Aggregation
		Solid	Hazardous	LLW	Mixed	PCB	PCB/Mixed	TRU	Asbestos			
21-024(k)	Removal	65	0	23	0	0	0	0	0	\$1,180,959	PRs In/Remedy Different	
21-024(l)	No Action	0	0	0	0	0	0	0	0	\$0	PRs In/Remedy Different	Aggregated with 21-004(a)
21-024(m)	No Action	0	0	0	0	0	0	0	0	\$0	PRs Out	
21-024(n)	Removal	17	0	0	0	0	0	0	0	\$851,555	PRs In/Remedy Different	
21-024(o)	Removal	22	0	0	0	0	0	0	0	\$861,755	PRs In/Remedy Different	
21-025(a)	No Action	0	0	0	0	0	0	0	0	\$0	PRs In/Remedy Different	
21-025(b)	No Action	0	0	0	0	0	0	0	0	\$0	PRs In/Remedy Different	
21-026(a)	Removal	211	0	0	0	0	0	0	0	\$951,792	PRs In/Remedy Different	

**TA-21 Site**

**Proposed**

**Commercial and Industrial Development**

**Land Use**

<i>PRS</i>	<i>Proposed Remedy</i>	<i>Expected Volume of Contaminated Material (cu. yards)</i>								<i>Estimated Cost</i>	<i>Baseline Scope - FY 99</i>	<i>Aggregation</i>
		<i>Solid</i>	<i>Hazardous</i>	<i>LLW</i>	<i>Mixed</i>	<i>PCB</i>	<i>PCB/Mixed</i>	<i>TRU</i>	<i>Asbestos</i>			
21-026(b)	Removal	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-026(a)
21-026(c)	Removal	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-026(a)
21-026(d)	Removal	0	0	20	0	0	0	0	0	\$2,014,610	PRS In/Remedy Different	
21-027(a)	Removal	12	0	62	0	0	0	0	0	\$1,968,428	PRS In/Remedy Different	
21-027(b)	No Action	0	0	0	0	0	0	0	0	\$0	PRS Out	
21-027(c)	Removal	1	0	0	0	0	0	0	0	\$871,379	PRS In/Remedy Different	
21-027(d)	Removal	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-018(a)
21-028(a)	In Situ Containment	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-016(a)

### TA-21 Site

PRs	Proposed Remedy	Expected Volume of Contaminated Material (cu. yards)								Estimated Cost	Baseline Scope - FY 99	Aggregation	
		Commercial and Industrial Development											Land Use
		Solid	Hazardous	LLW	Mixed	PCB	PCB/Mixed	TRU	Asbestos				
21-028(b)	No Action	0	0	0	0	0	0	0	0	\$57,391	PRs In/Remedy Different		
21-028(c)	Aggregated with D&D of Associated Structure	0	0	0	0	0	0	0	0	\$0	PRs In/Remedy Different	Aggregated with 21-028(b)	
21-028(d)	Aggregated with D&D of Associated Structure	0	0	0	0	0	0	0	0	\$0	PRs In/Remedy Different	Aggregated with 21-028(b)	
21-028(e)	Aggregated with D&D of Associated Structure	0	0	0	0	0	0	0	0	\$0	PRs In/Remedy Different	Aggregated with 21-028(b)	
C-21-001	Aggregated with D&D of Associated Structure	0	0	0	0	0	0	0	0	\$0	PRs Out	Aggregated with D/D Structure	
C-21-002	Removal	0	0	0	0	0	0	0	0	\$0	PRs In/Remedy Different	Aggregated with C-21-015	
C-21-003	Aggregated with D&D of Associated Structure	0	0	0	0	0	0	0	0	\$0	PRs Out	Aggregated with D/D Structure	
C-21-004	Aggregated with D&D of Associated Structure	0	0	0	0	0	0	0	0	\$0	PRs Out	Aggregated with D/D Structure	

**TA-21 Site**

**Proposed**

**Commercial and Industrial Development**

**Land Use**

<i>PRS</i>	<i>Proposed Remedy</i>	<i>Expected Volume of Contaminated Material (cu. yards)</i>								<i>Estimated Cost</i>	<i>Baseline Scope - FY 99</i>	<i>Aggregation</i>
		<i>Solid</i>	<i>Hazardous</i>	<i>LLW</i>	<i>Mixed</i>	<i>PCB</i>	<i>PCB/Mixed</i>	<i>TRU</i>	<i>Asbestos</i>			
C-21-005	Aggregated with D&D of Associated Structure	0	0	0	0	0	0	0	0	\$0	PRS Out	Aggregated with 21-011(a)
C-21-006	Aggregated with D&D of Associated Structure	0	0	0	0	0	0	0	0	\$0	PRS Out	Aggregated with D/D Structure
C-21-007	Aggregated with D&D of Associated Structure	0	0	0	0	0	0	0	0	\$0	PRS Out	Aggregated with 21-011(a)
C-21-008	Aggregated with D&D of Associated Structure	0	0	0	0	0	0	0	0	\$0	PRS Out	Aggregated with D/D Structure
C-21-009	In Situ Containment	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-016(a)
C-21-010	Removal	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with C-21-015
C-21-011	Removal	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with C-21-015
C-21-012	In Situ Containment	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-016(a)

**TA-21 Site**

<i>PRS</i>	<i>Proposed Remedy</i>	<i>Expected Volume of Contaminated Material (cu. yards)</i>								<i>Estimated Cost</i>	<i>Baseline Scope - FY 99</i>	<i>Aggregation</i>
		<i>Solid</i>	<i>Hazardous</i>	<i>LLW</i>	<i>Mixed</i>	<i>PCB</i>	<i>PCB/Mixed</i>	<i>TRU</i>	<i>Asbestos</i>			
C-21-013	Removal	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with C-21-015
C-21-014	Aggregated with D&D of Associated Structure	0	0	0	0	0	0	0	0	\$0	PRS Out	Aggregated with D/D Structure
C-21-015	Removal	0	0	19	0	0	0	0	0	\$917,232	PRS In/Remedy Different	
C-21-016	Removal	0	0	0	0	0	0	0	0	\$0	PRS/Remedy In	Aggregated with C-21-015
C-21-017	Removal	0	0	0	0	0	0	0	0	\$0	PRS/Remedy In	Aggregated with C-21-015
C-21-018	Removal	0	0	0	0	0	0	0	0	\$0	PRS/Remedy In	Aggregated with C-21-015
C-21-019	Removal	0	0	0	0	0	0	0	0	\$0	PRS/Remedy In	Aggregated with C-21-015
C-21-020	Removal	0	0	0	0	0	0	0	0	\$0	PRS/Remedy In	Aggregated with C-21-015

**TA-21 Site**

**Proposed**

**Commercial and Industrial Development**

**Land Use**

<i>PRS</i>	<i>Proposed Remedy</i>	<i>Expected Volume of Contaminated Material (cu. yards)</i>								<i>Estimated Cost</i>	<i>Baseline Scope - FY 99</i>	<i>Aggregation</i>
		<i>Solid</i>	<i>Hazardous</i>	<i>LLW</i>	<i>Mixed</i>	<i>PCB</i>	<i>PCB/Mixed</i>	<i>TRU</i>	<i>Asbestos</i>			
C-21-021	Removal	0	0	0	0	0	0	0	0	\$0	PRS/Remedy In	Aggregated with C-21-015
C-21-022	Removal	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with C-21-015
C-21-023	Removal	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with C-21-015
C-21-024	Aggregated with D&D of Associated Structure	0	0	0	0	0	0	0	0	\$0	PRS Out	Aggregated with D/D Structure
C-21-025	Aggregated with D&D of Associated Structure	0	0	0	0	0	0	0	0	\$0	PRS Out	Aggregated with D/D Structure
C-21-026	Aggregated with D&D of Associated Structure	0	0	0	0	0	0	0	0	\$0	PRS Out	Aggregated with D/D Structure
C-21-027	Aggregated with D&D of Associated Structure	0	0	0	0	0	0	0	0	\$0	PRS Out	Aggregated with D/D Structure
C-21-028	Aggregated with D&D of Associated Structure	0	0	0	0	0	0	0	0	\$0	PRS Out	Aggregated with D/D Structure

## TA-21 Site

**Proposed**

**Commercial and Industrial Development**

**Land Use**

PRS	Proposed Remedy	Expected Volume of Contaminated Material (cu. yards)								Estimated Cost	Baseline Scope - FY 99	Aggregation
		Solid	Hazardous	LLW	Mixed	PCB	PCB/Mixed	TRU	Asbestos			
C-21-029	Aggregated with D&D of Associated Structure	0	0	0	0	0	0	0	0	\$0	PRS Out	Aggregated with D/D Structure
C-21-030	Aggregated with D&D of Associated Structure	0	0	0	0	0	0	0	0	\$0	PRS Out	Aggregated with D/D Structure
C-21-031	Aggregated with D&D of Associated Structure	0	0	0	0	0	0	0	0	\$0	PRS Out	Aggregated with D/D Structure
C-21-032	Aggregated with D&D of Associated Structure	0	0	0	0	0	0	0	0	\$0	PRS Out	Aggregated with D/D Structure
C-21-033	Aggregated with D&D of Associated Structure	0	0	0	0	0	0	0	0	\$0	PRS Out	Aggregated with 21-011(a)
C-21-034	In Situ Containment	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-016(a)
C-21-035	In Situ Containment	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-016(a)
C-21-036	In Situ Containment	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-016(a)

**TA-21 Site**

**Proposed**

**Commercial and Industrial Development**

**Land Use**

<i>PRS</i>	<i>Proposed Remedy</i>	<i>Expected Volume of Contaminated Material (cu. yards)</i>								<i>Estimated Cost</i>	<i>Baseline Scope - FY 99</i>	<i>Aggregation</i>
		<i>Solid</i>	<i>Hazardous</i>	<i>LLW</i>	<i>Mixed</i>	<i>PCB</i>	<i>PCB/Mixed</i>	<i>TRU</i>	<i>Asbestos</i>			
C-21-037	In Situ Containment	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-016(a)
DP Canyon	No Action	0	0	0	0	0	0	0	0	\$1,479,756	PRS In/Remedy Different	
LA Canyon	No Action	0	0	0	0	0	0	0	0	\$815,006	PRS In/Remedy Different	
Sitewide Excavation	No Action	0	121	4346	241	121	0	0	0	\$21,960,620	PRS In/Remedy Different	

<i>Total Number of PRSs in Parcel:</i>	<i>Total Solid</i>	<i>Total Hazardous</i>	<i>Total LLW</i>	<i>Total Mixed</i>	<i>Total PCB</i>	<i>Total PCB/Mixed</i>	<i>Total TRU</i>	<i>Total Asbestos</i>	<i>Total Cost</i>
156	598	121	7826	479	169	40	54	0	\$207,921,549.0

**TA-74 Site**

**Proposed**

**Preservation**

**Land Use**

<i>PRS</i>	<i>Proposed Remedy</i>	<i>Expected Volume of Contaminated Material (cu. yards)</i>								<i>Estimated Cost</i>	<i>Baseline Scope - FY 99</i>	<i>Aggregation</i>
		<i>Solid</i>	<i>Hazardous</i>	<i>LLW</i>	<i>Mixed</i>	<i>PCB</i>	<i>PCB/Mixed</i>	<i>TRU</i>	<i>Asbestos</i>			
19-001	No Action	2	2	1	2	0	0	0	0	\$1,887,156	PRS In/Remedy Different	
19-002	No Action	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 19-001
19-003	No Action	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 19-001
C-00-004	No Action	0	0	0	0	0	0	0	0	\$945,579	PRS In/Remedy Different	
C-00-005	No Action	0	0	0	0	0	0	0	0	\$850,362	PRS In/Remedy Different	
C-19-001	No Action	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 19-001

<i>Total Number of PRSs in Parcel:</i>	<i>Total Solid</i>	<i>Total Hazardous</i>	<i>Total LLW</i>	<i>Total Mixed</i>	<i>Total PCB</i>	<i>Total PCB/Mixed</i>	<i>Total TRU</i>	<i>Total Asbestos</i>	<i>Total Cost</i>
6	2	2	1	2	0	0	0	0	\$3,683,097.0

**White Rock Site**

**Proposed**

**Preservation**

**Land Use**

<i>PRS</i>	<i>Proposed Remedy</i>	<i>Expected Volume of Contaminated Material (cu. yards)</i>								<i>Estimated Cost</i>	<i>Baseline Scope - FY 99</i>	<i>Aggregation</i>
		<i>Solid</i>	<i>Hazardous</i>	<i>LLW</i>	<i>Mixed</i>	<i>PCB</i>	<i>PCB/Mixed</i>	<i>TRU</i>	<i>Asbestos</i>			
C-00-009	No Action	0	0	0	0	0	0	0	0	\$954,197	PRS In/Remedy Different	

<i>Total Number of PRSs in Parcel:</i>	<i>Total Solid</i>	<i>Total Hazardous</i>	<i>Total LLW</i>	<i>Total Mixed</i>	<i>Total PCB</i>	<i>Total PCB/Mixed</i>	<i>Total TRU</i>	<i>Total Asbestos</i>	<i>Total Cost</i>
1	0	0	0	0	0	0	0	0	\$954,196.9

## White Rock Y

**Proposed**

**Preservation**

**Land Use**

<i>PRS</i>	<i>Proposed Remedy</i>	<i>Expected Volume of Contaminated Material (cu. yards)</i>								<i>Estimated Cost</i>	<i>Baseline Scope - FY 99</i>	<i>Aggregation</i>
		<i>Solid</i>	<i>Hazardous</i>	<i>LLW</i>	<i>Mixed</i>	<i>PCB</i>	<i>PCB/Mixed</i>	<i>TRU</i>	<i>Asbestos</i>			
C-00-006	No Action	0	0	0	0	0	0	0	0	\$936,293	PRS In/Remedy Different	
C-00-007	No Action	0	0	0	0	0	0	0	0	\$943,851	PRS In/Remedy Different	

<i>Total Number of PRSs in Parcel:</i>	<i>Total Solid</i>	<i>Total Hazardous</i>	<i>Total LLW</i>	<i>Total Mixed</i>	<i>Total PCB</i>	<i>Total PCB/Mixed</i>	<i>Total TRU</i>	<i>Total Asbestos</i>	<i>Total Cost</i>
2	0	0	0	0	0	0	0	0	\$1,880,143.6

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## ***PRS Report for Land Use Scenario 2***

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***\*\*Does not include the following  
Parcels:***

***Site 22  
Monument Site***

**Airport Site**

**Proposed**

**Not Applicable**

**Land Use**

<i>PRS</i>	<i>Proposed Remedy</i>	<i>Expected Volume of Contaminated Material (cu. yards)</i>								<i>Estimated Cost</i>	<i>Baseline Scope - FY 99</i>	<i>Aggregation</i>
		<i>Solid</i>	<i>Hazardous</i>	<i>LLW</i>	<i>Mixed</i>	<i>PCB</i>	<i>PCB/Mixed</i>	<i>TRU</i>	<i>Asbestos</i>			
00-034(a)	In Situ Containment	0	0	0	0	0	0	0	0	\$544,305	PRS In/Remedy Different	
73-001(a)	In Situ Containment	20000	0	0	0	0	0	0	0	\$13,091,470	PRS In/Remedy Different	
73-001(b)	In Situ Containment	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 73-001(a)
73-001(c)	In Situ Containment	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 73-001(a)
73-001(d)	In Situ Containment	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 73-001(a)
73-002	Removal	4000	0	400	0	0	0	0	0	\$12,398,751	PRS In/Remedy Different	
73-003	In Situ Containment	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 73-004(a)
73-004(a)	In Situ Containment	20	0	0	0	0	0	0	0	\$663,856	PRS In/Remedy Different	

**Airport Site**

**Proposed**

**Not Applicable**

**Land Use**

<i>PRS</i>	<i>Proposed Remedy</i>	<i>Expected Volume of Contaminated Material (cu. yards)</i>								<i>Estimated Cost</i>	<i>Baseline Scope - FY 99</i>	<i>Aggregation</i>
		<i>Solid</i>	<i>Hazardous</i>	<i>LLW</i>	<i>Mixed</i>	<i>PCB</i>	<i>PCB/Mixed</i>	<i>TRU</i>	<i>Asbestos</i>			
73-004(b)	In Situ Containment	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 73-004(a)
73-004(c)	No Action	0	0	0	0	0	0	0	0	\$13,608	PRS Out	
73-004(d)	In Situ Containment	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 73-001(a)
73-005	Removal	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with C-73-005(a)
73-006	In Situ Containment	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 73-004(a)
73-007	Removal	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with C-73-005(a)
C-31-001	No Action	1	0	0	0	0	0	0	0	\$677,937	PRS Out	
C-73-001	No Action	0	0	0	0	0	0	0	0	\$13,975	PRS Out	

**Airport Site**

**Proposed**

**Not Applicable**

**Land Use**

PRS	Proposed Remedy	Expected Volume of Contaminated Material (cu. yards)								Estimated Cost	Baseline Scope - FY 99	Aggregation
		Solid	Hazardous	LLW	Mixed	PCB	PCB/Mixed	TRU	Asbestos			
C-73-002	No Action	0	0	0	0	0	0	0	0	\$0	PRS Out	Aggregated with C-73-001
C-73-003	No Action	0	0	0	0	0	0	0	0	\$0	PRS Out	Aggregated with C-73-001
C-73-004	No Action	0	0	0	0	0	0	0	0	\$0	PRS Out	Aggregated with C-73-001
C-73-005(a)	Removal	35	0	0	0	0	0	0	0	\$814,036	PRS In/Remedy Different	
C-73-005(b)	Removal	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with C-73-005(a)
C-73-005(c)	Removal	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with C-73-005(a)
C-73-005(d)	Removal	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with C-73-005(a)
C-73-005(e)	Removal	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with C-73-005(a)

**Airport Site**

**Proposed**

**Not Applicable**

**Land Use**

<i>PRS</i>	<i>Proposed Remedy</i>	<i>Expected Volume of Contaminated Material (cu. yards)</i>								<i>Estimated Cost</i>	<i>Baseline Scope - FY 99</i>	<i>Aggregation</i>
		<i>Solid</i>	<i>Hazardous</i>	<i>LLW</i>	<i>Mixed</i>	<i>PCB</i>	<i>PCB/Mixed</i>	<i>TRU</i>	<i>Asbestos</i>			
C-73-005(f)	Removal	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with C-73-005(a)

<i>Total Number of PRSs in Parcel:</i>	<i>Total Solid</i>	<i>Total Hazardous</i>	<i>Total LLW</i>	<i>Total Mixed</i>	<i>Total PCB</i>	<i>Total PCB/Mixed</i>	<i>Total TRU</i>	<i>Total Asbestos</i>	<i>Total Cost</i>
25	24056	0	400	0	0	0	0	0	\$28,217,937

**DOE LAAO Site**

**Proposed**

**Residential Development**

**Land Use**

<i>PRS</i>	<i>Proposed Remedy</i>	<i>Expected Volume of Contaminated Material (cu. yards)</i>								<i>Estimated Cost</i>	<i>Baseline Scope - FY 99</i>	<i>Aggregation</i>
		<i>Solid</i>	<i>Hazardous</i>	<i>LLW</i>	<i>Mixed</i>	<i>PCB</i>	<i>PCB/Mixed</i>	<i>TRU</i>	<i>Asbestos</i>			
00-003	Removal	100	0	0	0	0	0	0	0	\$615,940	PRS In/Remedy Different	
00-012	Removal	121	0	0	0	0	0	0	0	\$836,882	PRS In/Remedy Different	
00-030(i)	Removal	10	0	0	0	0	0	0	0	\$601,938	PRS In/Remedy Different	

<i>Total Number of PRSs in Parcel:</i>	<i>Total Solid</i>	<i>Total Hazardous</i>	<i>Total LLW</i>	<i>Total Mixed</i>	<i>Total PCB</i>	<i>Total PCB/Mixed</i>	<i>Total TRU</i>	<i>Total Asbestos</i>	<i>Total Cost</i>
3	231	0	0	0	0	0	0	0	\$2,054,760

**DP Road Site**

**Proposed**

**Residential Development**

**Land Use**

<i>PRS</i>	<i>Proposed Remedy</i>	<i>Expected Volume of Contaminated Material (cu. yards)</i>								<i>Estimated Cost</i>	<i>Baseline Scope - FY 99</i>	<i>Aggregation</i>
		<i>Solid</i>	<i>Hazardous</i>	<i>LLW</i>	<i>Mixed</i>	<i>PCB</i>	<i>PCB/Mixed</i>	<i>TRU</i>	<i>Asbestos</i>			
00-004	Removal	0	0	0	0	0	0	0	0	\$528,431	PRS In/Remedy Different	
00-010(a)	No Action	0	0	0	0	0	0	0	0	\$356,876	PRS In/Remedy Different	
00-010(b)	No Action	0	0	0	0	0	0	0	0	\$421,396	PRS In/Remedy Different	
00-027	In Situ Containment	10	0	0	0	0	0	0	0	\$4,099,542	PRS In/Remedy Different	
00-030(b)	In Situ Containment	0	0	0	0	0	0	0	0	\$474,542	PRS In/Remedy Different	
00-030(l)	No Action	0	0	0	0	0	0	0	0	\$471,586	PRS In/Remedy Different	
00-030(m)	No Action	0	0	0	0	0	0	0	0	\$584,166	PRS In/Remedy Different	
00-033(a)	Removal	0	740	0	0	0	0	0	0	\$1,884,649	PRS In/Remedy Different	

**DP Road Site**

**Proposed**

**Residential Development**

**Land Use**

<i>PRS</i>	<i>Proposed Remedy</i>	<i>Expected Volume of Contaminated Material (cu. yards)</i>								<i>Estimated Cost</i>	<i>Baseline Scope - FY 99</i>	<i>Aggregation</i>
		<i>Solid</i>	<i>Hazardous</i>	<i>LLW</i>	<i>Mixed</i>	<i>PCB</i>	<i>PCB/Mixed</i>	<i>TRU</i>	<i>Asbestos</i>			
00-033(b)	Removal	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 00-033(a)
21-029	Removal	0	0	0	0	0	0	0	0	\$1,503,197	PRS In/Remedy Different	
DP Canyon2	No Action	0	0	0	0	0	0	0	0	\$786,036	PRS In/Remedy Different	

<i>Total Number of PRSs in Parcel:</i>	<i>Total Solid</i>	<i>Total Hazardous</i>	<i>Total LLW</i>	<i>Total Mixed</i>	<i>Total PCB</i>	<i>Total PCB/Mixed</i>	<i>Total TRU</i>	<i>Total Asbestos</i>	<i>Total Cost</i>
11	10	740	0	0	0	0	0	0	\$11,110,422

## Rendija Canyon

**Proposed**

**Residential Development**

**Land Use**

PRS	Proposed Remedy	Expected Volume of Contaminated Material (cu. yards)								Estimated Cost	Baseline Scope - FY 99	Aggregation
		Solid	Hazardous	LLW	Mixed	PCB	PCB/Mixed	TRU	Asbestos			
00-011(a)	Removal	1	0	0	0	0	0	0	0	\$1,713,215	PRS In/Remedy Different	
00-011(c)	Removal	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 00-011(a)
00-011(e)	Removal	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 00-011(a)
00-015	Removal	0	7500	0	0	0	0	0	0	\$17,804,828	PRS Out	
C-00-002	No Action	0	0	0	0	0	0	0	0	\$943,851	PRS In/Remedy Different	

Total Number of PRSs in Parcel:	Total Solid	Total Hazardous	Total LLW	Total Mixed	Total PCB	Total PCB/Mixed	Total TRU	Total Asbestos	Total Cost
5	1	7500	0	0	0	0	0	0	\$20,461,894

**TA-21 Site**

**Proposed**

**Not Applicable**

**Land Use**

<i>PRS</i>	<i>Proposed Remedy</i>	<i>Expected Volume of Contaminated Material (cu. yards)</i>								<i>Estimated Cost</i>	<i>Baseline Scope - FY 99</i>	<i>Aggregation</i>
		<i>Solid</i>	<i>Hazardous</i>	<i>LLW</i>	<i>Mixed</i>	<i>PCB</i>	<i>PCB/Mixed</i>	<i>TRU</i>	<i>Asbestos</i>			
21-001	In Situ Containment	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-016(a)
21-002(a)	No Action	0	0	0	0	0	0	0	0	\$7,176	PRS In/Remedy Different	
21-002(b)	No Action	0	0	0	0	0	0	0	0	\$282,449	PRS In/Remedy Different	
21-003	In Situ Treatment	0	0	0	91	0	0	0	0	\$6,637,465	PRS In/Remedy Different	
21-004(a)	Aggregated with D&D of Associated Structure	0	0	0	0	0	0	0	0	\$295,308	PRS In/Remedy Different	
21-004(b)	No Action	0	0	0	0	0	0	0	0	\$287,739	PRS In/Remedy Different	
21-004(c)	No Action	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-004(b)
21-004(d)	No Action	0	0	0	0	0	0	0	0	\$406,212	PRS Out	

**TA-21 Site**

**Proposed**

**Not Applicable**

**Land Use**

<i>PRS</i>	<i>Proposed Remedy</i>	<i>Expected Volume of Contaminated Material (cu. yards)</i>								<i>Estimated Cost</i>	<i>Baseline Scope - FY 99</i>	<i>Aggregation</i>
		<i>Solid</i>	<i>Hazardous</i>	<i>LLW</i>	<i>Mixed</i>	<i>PCB</i>	<i>PCB/Mixed</i>	<i>TRU</i>	<i>Asbestos</i>			
21-005	No Action	0	0	0	0	0	0	0	0	\$294,208	PRS In/Remedy Different	
21-006(a)	Removal	0	0	16	0	0	0	10	0	\$2,299,954	PRS In/Remedy Different	
21-006(b)	Removal	0	0	3	91	0	0	0	0	\$351,250	PRS In/Remedy Different	
21-006(c)	Removal	0	0	5	0	0	0	0	0	\$569,421	PRS In/Remedy Different	
21-006(d)	Removal	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-006(c)
21-006(e)	No Action	0	0	0	0	0	0	0	0	\$302,577	PRS In/Remedy Different	
21-006(f)	No Action	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-006(e)
21-007	No Action	0	0	0	0	0	0	0	0	\$82,123	PRS In/Remedy Different	

**TA-21 Site**

**Proposed**

**Not Applicable**

**Land Use**

<i>PRS</i>	<i>Proposed Remedy</i>	<i>Expected Volume of Contaminated Material (cu. yards)</i>								<i>Estimated Cost</i>	<i>Baseline Scope - FY 99</i>	<i>Aggregation</i>
		<i>Solid</i>	<i>Hazardous</i>	<i>LLW</i>	<i>Mixed</i>	<i>PCB</i>	<i>PCB/Mixed</i>	<i>TRU</i>	<i>Asbestos</i>			
21-008	No Action	0	0	0	0	0	0	0	0	\$243,846	PRS In/Remedy Different	
21-009	In Situ Containment	0	0	0	0	0	0	0	0	\$231,166	PRS In/Remedy Different	
21-010(a)	In Situ Containment	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-016(a)
21-010(b)	In Situ Containment	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-016(a)
21-010(c)	In Situ Containment	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-016(a)
21-010(d)	In Situ Containment	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-016(a)
21-010(e)	In Situ Containment	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-016(a)
21-010(f)	In Situ Containment	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-016(a)

**TA-21 Site**

**Proposed**

**Not Applicable**

**Land Use**

<i>PRS</i>	<i>Proposed Remedy</i>	<i>Expected Volume of Contaminated Material (cu. yards)</i>								<i>Estimated Cost</i>	<i>Baseline Scope - FY 99</i>	<i>Aggregation</i>
		<i>Solid</i>	<i>Hazardous</i>	<i>LLW</i>	<i>Mixed</i>	<i>PCB</i>	<i>PCB/Mixed</i>	<i>TRU</i>	<i>Asbestos</i>			
21-010(g)	In Situ Containment	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-016(a)
21-010(h)	In Situ Containment	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-016(a)
21-011(a)	No Action	0	0	0	0	0	0	0	0	\$1,391,526	PRS In/Remedy Different	
21-011(b)	Removal	0	0	89	0	0	0	0	0	\$1,090,034	PRS In/Remedy Different	
21-011(c)	In Situ Containment	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-016(a)
21-011(d)	No Action	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-011(a)
21-011(e)	No Action	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-011(a)
21-011(f)	No Action	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-011(a)

**TA-21 Site**

**Proposed**

**Not Applicable**

**Land Use**

<i>PRS</i>	<i>Proposed Remedy</i>	<i>Expected Volume of Contaminated Material (cu. yards)</i>								<i>Estimated Cost</i>	<i>Baseline Scope - FY 99</i>	<i>Aggregation</i>
		<i>Solid</i>	<i>Hazardous</i>	<i>LLW</i>	<i>Mixed</i>	<i>PCB</i>	<i>PCB/Mixed</i>	<i>TRU</i>	<i>Asbestos</i>			
21-011(g)	No Action	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-011(a)
21-011(h)	No Action	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-011(a)
21-011(i)	No Action	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-011(a)
21-011(j)	No Action	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-011(a)
21-011(k)	Removal	0	0	2000	0	0	0	0	0	\$9,123,162	PRS In/Remedy Different	
21-012(a)	No Action	0	0	0	0	0	0	0	0	\$0	PRS Out	
21-012(b)	No Action	16	0	0	0	0	0	0	0	\$662,932	PRS In/Remedy Different	
21-013(a)	No Action	0	0	0	0	0	0	0	0	\$283,432	PRS In/Remedy Different	

**TA-21 Site**

**Proposed**

**Not Applicable**

**Land Use**

<i>PRS</i>	<i>Proposed Remedy</i>	<i>Expected Volume of Contaminated Material (cu. yards)</i>								<i>Estimated Cost</i>	<i>Baseline Scope - FY 99</i>	<i>Aggregation</i>
		<i>Solid</i>	<i>Hazardous</i>	<i>LLW</i>	<i>Mixed</i>	<i>PCB</i>	<i>PCB/Mixed</i>	<i>TRU</i>	<i>Asbestos</i>			
21-013(b)	In Situ Containment	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-018(a)
21-013(c)	No Action	0	0	0	0	0	0	0	0	\$1,084,345	PRS In/Remedy Different	
21-013(d)	No Action	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-013(c)
21-013(e)	No Action	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-013(c)
21-013(f)	In Situ Treatment	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-003
21-013(g)	In Situ Containment	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-018(a)
21-014	In Situ Containment	0	0	13	0	0	0	13	0	\$7,175,583	PRS In/Remedy Different	
21-015	In Situ Containment	150	0	177	0	0	0	0	0	\$21,440,417	PRS In/Remedy Different	

**TA-21 Site**

**Proposed**

**Not Applicable**

**Land Use**

PRS	Proposed Remedy	Expected Volume of Contaminated Material (cu. yards)								Estimated Cost	Baseline Scope - FY 99	Aggregation
		Solid	Hazardous	LLW	Mixed	PCB	PCB/Mixed	TRU	Asbestos			
21-016(a)	In Situ Containment	0	0	53	0	0	0	0	0	\$7,788,278	PRS In/Remedy Different	
21-016(b)	In Situ Containment	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-016(a)
21-016(c)	In Situ Containment	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-016(a)
21-017(a)	Removal	0	0	13	0	0	0	0	0	\$20,694,769	PRS In/Remedy Different	
21-017(b)	In Situ Containment	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-017(a)
21-017(c)	In Situ Containment	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-017(a)
21-018(a)	Removal	0	0	7	14	0	0	0	0	\$59,796,603	PRS In/Remedy Different	
21-018(b)	In Situ Containment	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-018(a)

**TA-21 Site**

**Proposed**

**Not Applicable**

**Land Use**

<i>PRS</i>	<i>Proposed Remedy</i>	<i>Expected Volume of Contaminated Material (cu. yards)</i>								<i>Estimated Cost</i>	<i>Baseline Scope - FY 99</i>	<i>Aggregation</i>
		<i>Solid</i>	<i>Hazardous</i>	<i>LLW</i>	<i>Mixed</i>	<i>PCB</i>	<i>PCB/Mixed</i>	<i>TRU</i>	<i>Asbestos</i>			
21-019(a)	No Action	0	0	0	0	0	0	0	0	\$114,161	PRS In/Remedy Different	
21-019(b)	No Action	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-019(a)
21-019(c)	No Action	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-019(a)
21-019(d)	No Action	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-019(a)
21-019(e)	No Action	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-019(a)
21-019(f)	No Action	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-019(a)
21-019(g)	No Action	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-019(a)
21-019(h)	No Action	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-019(a)

**TA-21 Site**

**Proposed**

**Not Applicable**

**Land Use**

<i>PRS</i>	<i>Proposed Remedy</i>	<i>Expected Volume of Contaminated Material (cu. yards)</i>								<i>Estimated Cost</i>	<i>Baseline Scope - FY 99</i>	<i>Aggregation</i>
		<i>Solid</i>	<i>Hazardous</i>	<i>LLW</i>	<i>Mixed</i>	<i>PCB</i>	<i>PCB/Mixed</i>	<i>TRU</i>	<i>Asbestos</i>			
21-019(i)	No Action	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-019(a)
21-019(j)	No Action	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-019(a)
21-019(k)	No Action	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-019(a)
21-019(l)	No Action	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-019(a)
21-019(m)	No Action	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-019(a)
21-020(a)	No Action	0	0	0	0	0	0	0	0	\$399,030	PRS In/Remedy Different	
21-020(b)	No Action	0	0	0	0	0	0	0	0	\$392,422	PRS In/Remedy Different	
21-021	No Action	0	0	0	0	0	0	0	0	\$3,461,571	PRS In/Remedy Different	

**TA-21 Site**  
**Not Applicable**

**Proposed**

**Land Use**

<i>PRS</i>	<i>Proposed Remedy</i>	<i>Expected Volume of Contaminated Material (cu. yards)</i>								<i>Estimated Cost</i>	<i>Baseline Scope - FY 99</i>	<i>Aggregation</i>
		<i>Solid</i>	<i>Hazardous</i>	<i>LLW</i>	<i>Mixed</i>	<i>PCB</i>	<i>PCB/Mixed</i>	<i>TRU</i>	<i>Asbestos</i>			
21-022(a)	Removal	0	0	45	0	0	0	0	0	\$1,053,359	PRS In/Remedy Different	
21-022(b)	Removal	0	0	620	0	0	0	31	0	\$8,010,938	PRS In/Remedy Different	
21-022(c)	Removal	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-022(b)
21-022(d)	Removal	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-022(b)
21-022(e)	Removal	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-022(b)
21-022(f)	Removal	0	0	42	0	0	0	0	0	\$966,289	PRS In/Remedy Different	
21-022(g)	Removal	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-022(b)
21-022(h)	Removal	0	0	26	0	0	0	0	0	\$1,133,237	PRS In/Remedy Different	

**TA-21 Site**

**Proposed**

**Not Applicable**

**Land Use**

<i>PRS</i>	<i>Proposed Remedy</i>	<i>Expected Volume of Contaminated Material (cu. yards)</i>								<i>Estimated Cost</i>	<i>Baseline Scope - FY 99</i>	<i>Aggregation</i>
		<i>Solid</i>	<i>Hazardous</i>	<i>LLW</i>	<i>Mixed</i>	<i>PCB</i>	<i>PCB/Mixed</i>	<i>TRU</i>	<i>Asbestos</i>			
21-022(i)	Removal	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-022(h)
21-022(j)	Removal	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-022(h)
21-023(a)	No Action	0	0	0	0	0	0	0	0	\$345,585	PRS In/Remedy Different	
21-023(b)	No Action	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-023(a)
21-023(c)	In Situ Containment	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-018(a)
21-023(d)	No Action	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-023(a)
21-024(a)	Removal	32	0	0	0	0	0	0	0	\$861,676	PRS In/Remedy Different	
21-024(b)	Removal	0	0	65	0	34	0	0	0	\$1,474,923	PRS In/Remedy Different	

**TA-21 Site**

**Proposed**

**Not Applicable**

**Land Use**

<i>PRS</i>	<i>Proposed Remedy</i>	<i>Expected Volume of Contaminated Material (cu. yards)</i>								<i>Estimated Cost</i>	<i>Baseline Scope - FY 99</i>	<i>Aggregation</i>
		<i>Solid</i>	<i>Hazardous</i>	<i>LLW</i>	<i>Mixed</i>	<i>PCB</i>	<i>PCB/Mixed</i>	<i>TRU</i>	<i>Asbestos</i>			
21-024(c)	Removal	0	0	0	0	14	20	0	0	\$2,262,574	PRS In/Remedy Different	
21-024(d)	Removal	0	0	94	0	0	0	0	0	\$1,740,508	PRS In/Remedy Different	
21-024(e)	Removal	0	0	38	0	0	0	0	0	\$1,709,170	PRS In/Remedy Different	
21-024(f)	Removal	0	0	16	0	0	0	0	0	\$1,567,491	PRS In/Remedy Different	
21-024(g)	Removal	34	0	0	0	0	0	0	0	\$851,533	PRS In/Remedy Different	
21-024(h)	Removal	0	0	0	27	0	0	0	0	\$1,511,721	PRS In/Remedy Different	
21-024(i)	Removal	0	0	34	15	0	20	0	0	\$2,525,783	PRS In/Remedy Different	
21-024(j)	Removal	38	0	0	0	0	0	0	0	\$787,118	PRS In/Remedy Different	

**TA-21 Site**

**Proposed**

**Not Applicable**

**Land Use**

PRs	Proposed Remedy	Expected Volume of Contaminated Material (cu. yards)								Estimated Cost	Baseline Scope - FY 99	Aggregation
		Solid	Hazardous	LLW	Mixed	PCB	PCB/Mixed	TRU	Asbestos			
21-024(k)	Removal	65	0	23	0	0	0	0	0	\$1,180,959	PRs In/Remedy Different	
21-024(l)	No Action	0	0	0	0	0	0	0	0	\$0	PRs In/Remedy Different	Aggregated with 21-004(a)
21-024(m)	No Action	0	0	0	0	0	0	0	0	\$0	PRs Out	
21-024(n)	Removal	17	0	0	0	0	0	0	0	\$851,555	PRs In/Remedy Different	
21-024(o)	Removal	22	0	0	0	0	0	0	0	\$861,755	PRs In/Remedy Different	
21-025(a)	No Action	0	0	0	0	0	0	0	0	\$0	PRs In/Remedy Different	
21-025(b)	No Action	0	0	0	0	0	0	0	0	\$0	PRs In/Remedy Different	
21-026(a)	Removal	211	0	0	0	0	0	0	0	\$951,792	PRs In/Remedy Different	

**TA-21 Site**

**Proposed**

**Not Applicable**

**Land Use**

<i>PRS</i>	<i>Proposed Remedy</i>	<i>Expected Volume of Contaminated Material (cu. yards)</i>								<i>Estimated Cost</i>	<i>Baseline Scope - FY 99</i>	<i>Aggregation</i>
		<i>Solid</i>	<i>Hazardous</i>	<i>LLW</i>	<i>Mixed</i>	<i>PCB</i>	<i>PCB/Mixed</i>	<i>TRU</i>	<i>Asbestos</i>			
21-026(b)	Removal	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-026(a)
21-026(c)	Removal	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-026(a)
21-026(d)	Removal	0	0	20	0	0	0	0	0	\$2,014,610	PRS In/Remedy Different	
21-027(a)	Removal	12	0	62	0	0	0	0	0	\$1,968,428	PRS In/Remedy Different	
21-027(b)	No Action	0	0	0	0	0	0	0	0	\$0	PRS Out	
21-027(c)	Removal	1	0	0	0	0	0	0	0	\$871,379	PRS In/Remedy Different	
21-027(d)	In Situ Containment	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-018(a)
21-028(a)	In Situ Containment	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-016(a)

**TA-21 Site**

**Proposed**

**Not Applicable**

**Land Use**

<i>PRS</i>	<i>Proposed Remedy</i>	<i>Expected Volume of Contaminated Material (cu. yards)</i>								<i>Estimated Cost</i>	<i>Baseline Scope - FY 99</i>	<i>Aggregation</i>
		<i>Solid</i>	<i>Hazardous</i>	<i>LLW</i>	<i>Mixed</i>	<i>PCB</i>	<i>PCB/Mixed</i>	<i>TRU</i>	<i>Asbestos</i>			
21-028(b)	No Action	0	0	0	0	0	0	0	0	\$57,391	PRS In/Remedy Different	
21-028(c)	Aggregated with D&D of Associated Structure	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-028(b)
21-028(d)	Aggregated with D&D of Associated Structure	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-028(b)
21-028(e)	Aggregated with D&D of Associated Structure	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-028(b)
C-21-001	Aggregated with D&D of Associated Structure	0	0	0	0	0	0	0	0	\$0	PRS Out	Aggregated with D/D Structure
C-21-002	Removal	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with C-21-015
C-21-003	Aggregated with D&D of Associated Structure	0	0	0	0	0	0	0	0	\$0	PRS Out	Aggregated with D/D Structure
C-21-004	Aggregated with D&D of Associated Structure	0	0	0	0	0	0	0	0	\$0	PRS Out	Aggregated with D/D Structure

**TA-21 Site**

**Proposed**

**Not Applicable**

**Land Use**

PRs	Proposed Remedy	Expected Volume of Contaminated Material (cu. yards)								Estimated Cost	Baseline Scope - FY 99	Aggregation
		Solid	Hazardous	LLW	Mixed	PCB	PCB/Mixed	TRU	Asbestos			
C-21-005	Aggregated with D&D of Associated Structure	0	0	0	0	0	0	0	0	\$0	PRs Out	Aggregated with 21-011(a)
C-21-006	Aggregated with D&D of Associated Structure	0	0	0	0	0	0	0	0	\$0	PRs Out	Aggregated with D/D Structure
C-21-007	Aggregated with D&D of Associated Structure	0	0	0	0	0	0	0	0	\$0	PRs Out	Aggregated with 21-011(a)
C-21-008	Aggregated with D&D of Associated Structure	0	0	0	0	0	0	0	0	\$0	PRs Out	Aggregated with D/D Structure
C-21-009	In Situ Containment	0	0	0	0	0	0	0	0	\$0	PRs In/Remedy Different	Aggregated with 21-016(a)
C-21-010	Removal	0	0	0	0	0	0	0	0	\$0	PRs In/Remedy Different	Aggregated with C-21-015
C-21-011	Removal	0	0	0	0	0	0	0	0	\$0	PRs In/Remedy Different	Aggregated with C-21-015
C-21-012	In Situ Containment	0	0	0	0	0	0	0	0	\$0	PRs In/Remedy Different	Aggregated with 21-016(a)

**TA-21 Site**

**Proposed**

**Not Applicable**

**Land Use**

<i>PRS</i>	<i>Proposed Remedy</i>	<i>Expected Volume of Contaminated Material (cu. yards)</i>								<i>Estimated Cost</i>	<i>Baseline Scope - FY 99</i>	<i>Aggregation</i>
		<i>Solid</i>	<i>Hazardous</i>	<i>LLW</i>	<i>Mixed</i>	<i>PCB</i>	<i>PCB/Mixed</i>	<i>TRU</i>	<i>Asbestos</i>			
C-21-013	Removal	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with C-21-015
C-21-014	Aggregated with D&D of Associated Structure	0	0	0	0	0	0	0	0	\$0	PRS Out	Aggregated with D/D Structure
C-21-015	Removal	0	0	19	0	0	0	0	0	\$917,232	PRS In/Remedy Different	
C-21-016	Removal	0	0	0	0	0	0	0	0	\$0	PRS/Remedy In	Aggregated with C-21-015
C-21-017	Removal	0	0	0	0	0	0	0	0	\$0	PRS/Remedy In	Aggregated with C-21-015
C-21-018	Removal	0	0	0	0	0	0	0	0	\$0	PRS/Remedy In	Aggregated with C-21-015
C-21-019	Removal	0	0	0	0	0	0	0	0	\$0	PRS/Remedy In	Aggregated with C-21-015
C-21-020	Removal	0	0	0	0	0	0	0	0	\$0	PRS/Remedy In	Aggregated with C-21-015

**TA-21 Site**

**Proposed**

**Not Applicable**

**Land Use**

PRS	Proposed Remedy	Expected Volume of Contaminated Material (cu. yards)								Estimated Cost	Baseline Scope - FY 99	Aggregation
		Solid	Hazardous	LLW	Mixed	PCB	PCB/Mixed	TRU	Asbestos			
C-21-021	Removal	0	0	0	0	0	0	0	0	\$0	PRS/Remedy In	Aggregated with C-21-015
C-21-022	Removal	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with C-21-015
C-21-023	Removal	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with C-21-015
C-21-024	Aggregated with D&D of Associated Structure	0	0	0	0	0	0	0	0	\$0	PRS Out	Aggregated with D/D Structure
C-21-025	Aggregated with D&D of Associated Structure	0	0	0	0	0	0	0	0	\$0	PRS Out	Aggregated with D/D Structure
C-21-026	Aggregated with D&D of Associated Structure	0	0	0	0	0	0	0	0	\$0	PRS Out	Aggregated with D/D Structure
C-21-027	Aggregated with D&D of Associated Structure	0	0	0	0	0	0	0	0	\$0	PRS Out	Aggregated with D/D Structure
C-21-028	Aggregated with D&D of Associated Structure	0	0	0	0	0	0	0	0	\$0	PRS Out	Aggregated with D/D Structure

**TA-21 Site**

**Proposed**

**Not Applicable**

**Land Use**

<i>PRS</i>	<i>Proposed Remedy</i>	<i>Expected Volume of Contaminated Material (cu. yards)</i>								<i>Estimated Cost</i>	<i>Baseline Scope - FY 99</i>	<i>Aggregation</i>
		<i>Solid</i>	<i>Hazardous</i>	<i>LLW</i>	<i>Mixed</i>	<i>PCB</i>	<i>PCB/Mixed</i>	<i>TRU</i>	<i>Asbestos</i>			
C-21-029	Aggregated with D&D of Associated Structure	0	0	0	0	0	0	0	0	\$0	PRS Out	Aggregated with D/D Structure
C-21-030	Aggregated with D&D of Associated Structure	0	0	0	0	0	0	0	0	\$0	PRS Out	Aggregated with D/D Structure
C-21-031	Aggregated with D&D of Associated Structure	0	0	0	0	0	0	0	0	\$0	PRS Out	Aggregated with D/D Structure
C-21-032	Aggregated with D&D of Associated Structure	0	0	0	0	0	0	0	0	\$0	PRS Out	Aggregated with D/D Structure
C-21-033	Aggregated with D&D of Associated Structure	0	0	0	0	0	0	0	0	\$0	PRS Out	Aggregated with 21-011(a)
C-21-034	In Situ Containment	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-016(a)
C-21-035	In Situ Containment	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-016(a)
C-21-036	In Situ Containment	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-016(a)

**TA-21 Site**

**Proposed**

**Not Applicable**

**Land Use**

<i>PRS</i>	<i>Proposed Remedy</i>	<i>Expected Volume of Contaminated Material (cu. yards)</i>								<i>Estimated Cost</i>	<i>Baseline Scope - FY 99</i>	<i>Aggregation</i>
		<i>Solid</i>	<i>Hazardous</i>	<i>LLW</i>	<i>Mixed</i>	<i>PCB</i>	<i>PCB/Mixed</i>	<i>TRU</i>	<i>Asbestos</i>			
C-21-037	In Situ Containment	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 21-016(a)
DP Canyon	NA	0	0	0	0	0	0	0	0	\$1,479,756	PRS In/Remedy Different	
LA Canyon	NA	0	0	0	0	0	0	0	0	\$815,006	PRS In/Remedy Different	
Sitewide Excavation	No Action	0	121	4346	241	121	0	0	0	\$21,960,620	PRS In/Remedy Different	

<i>Total Number of PRSs in Parcel:</i>	<i>Total Solid</i>	<i>Total Hazardous</i>	<i>Total LLW</i>	<i>Total Mixed</i>	<i>Total PCB</i>	<i>Total PCB/Mixed</i>	<i>Total TRU</i>	<i>Total Asbestos</i>	<i>Total Cost</i>
156	598	121	7826	479	169	40	54	0	\$207,921,549

**TA-74 Site**

**Proposed**

**Not Applicable**

**Land Use**

<i>PRS</i>	<i>Proposed Remedy</i>	<i>Expected Volume of Contaminated Material (cu. yards)</i>								<i>Estimated Cost</i>	<i>Baseline Scope - FY 99</i>	<i>Aggregation</i>
		<i>Solid</i>	<i>Hazardous</i>	<i>LLW</i>	<i>Mixed</i>	<i>PCB</i>	<i>PCB/Mixed</i>	<i>TRU</i>	<i>Asbestos</i>			
19-001	No Action	2	2	1	2	0	0	0	0	\$1,887,156	PRS In/Remedy Different	
19-002	No Action	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 19-001
19-003	No Action	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 19-001
C-00-004	NA	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	
C-00-005	NA	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	
C-19-001	No Action	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	Aggregated with 19-001

<i>Total Number of PRSs in Parcel:</i>	<i>Total Solid</i>	<i>Total Hazardous</i>	<i>Total LLW</i>	<i>Total Mixed</i>	<i>Total PCB</i>	<i>Total PCB/Mixed</i>	<i>Total TRU</i>	<i>Total Asbestos</i>	<i>Total Cost</i>
6	2	2	1	2	0	0	0	0	\$1,887,156

**White Rock Site**

**Proposed**

**Residential Development**

**Land Use**

<i>PRS</i>	<i>Proposed Remedy</i>	<i>Expected Volume of Contaminated Material (cu. yards)</i>								<i>Estimated Cost</i>	<i>Baseline Scope - FY 99</i>	<i>Aggregation</i>
		<i>Solid</i>	<i>Hazardous</i>	<i>LLW</i>	<i>Mixed</i>	<i>PCB</i>	<i>PCB/Mixed</i>	<i>TRU</i>	<i>Asbestos</i>			
C-00-009	NA	0	0	0	0	0	0	0	0	\$3,374,285	PRS In/Remedy Different	

<i>Total Number of PRSs in Parcel:</i>	<i>Total Solid</i>	<i>Total Hazardous</i>	<i>Total LLW</i>	<i>Total Mixed</i>	<i>Total PCB</i>	<i>Total PCB/Mixed</i>	<i>Total TRU</i>	<i>Total Asbestos</i>	<i>Total Cost</i>
1	0	0	0	0	0	0	0	0	\$3,374,285

**White Rock Y**

**Proposed**

**Not Applicable**

**Land Use**

<i>PRS</i>	<i>Proposed Remedy</i>	<i>Expected Volume of Contaminated Material (cu. yards)</i>								<i>Estimated Cost</i>	<i>Baseline Scope - FY 99</i>	<i>Aggregation</i>
		<i>Solid</i>	<i>Hazardous</i>	<i>LLW</i>	<i>Mixed</i>	<i>PCB</i>	<i>PCB/Mixed</i>	<i>TRU</i>	<i>Asbestos</i>			
C-00-006	NA	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	
C-00-007	NA	0	0	0	0	0	0	0	0	\$0	PRS In/Remedy Different	

<i>Total Number of PRSs in Parcel:</i>	<i>Total Solid</i>	<i>Total Hazardous</i>	<i>Total LLW</i>	<i>Total Mixed</i>	<i>Total PCB</i>	<i>Total PCB/Mixed</i>	<i>Total TRU</i>	<i>Total Asbestos</i>	<i>Total Cost</i>
2	0	0	0	0	0	0	0	0	\$0

# Structure Parcel Report

## Airport Site

<b>Structure Number</b>	<b>Location- Technical Area</b>	<b>Location Coordinate Northing</b>	<b>Location Coordinate Easting</b>	<b>Type</b>	<b>Building Area (sq. ft.)</b>	<b>Regulatory Driver</b>	<b>Regulatory Status</b>	<b>Status of Investigation</b>	<b>COPCs- Has Sampling Occurred?</b>	<b>D/D Facility?</b>
73-0001	73	1776244.19	1632903.87	Type 4	4290	Not Applicable	Not Applicable	Not On Surplus List	No	No
73-0002	73	1776375.57	1632822.81	Type 4	3375	Not Applicable	Not Applicable	Not On Surplus List	No	No
73-0003	73	1776265.92	1632913.85	Type 2	112	Not Applicable	Not Applicable	Not On Surplus List	No	No
73-0005	73	1775816.51	1631718.66	Type 4	399.13	Not Applicable	Not Applicable	Not On Surplus List	No	No

### DOE LAO Site

<b>Structure Number</b>	<b>Location- Technical Area</b>	<b>Location Coordinate Northing</b>	<b>Location Coordinate Easting</b>	<b>Type</b>	<b>Building Area (sq. ft.)</b>	<b>Regulatory Driver</b>	<b>Regulatory Status</b>	<b>Status of Investigation</b>	<b>COPCs- Has Sampling Occurred?</b>	<b>D/D Facility?</b>
43-0039	43	1776054.11	1621195.77	Type 4	440000	Not Applicable	Not Applicable	Not On Surplus List	No	No
43-0040	43	1776178.5	1620988.91	Type 4	160	Not Applicable	Not Applicable	Not On Surplus List	No	No
43-0041	43	1776383.96	1620803.03	Type 4	4608	Not Applicable	Not Applicable	Not On Surplus List	No	No

### DP Road Site

<b>Structure Number</b>	<b>Location- Technical Area</b>	<b>Location Coordinate Northing</b>	<b>Location Coordinate Easting</b>	<b>Type</b>	<b>Building Area (sq. ft.)</b>	<b>Regulatory Driver</b>	<b>Regulatory Status</b>	<b>Status of Investigation</b>	<b>COPCs- Has Sampling Occurred?</b>	<b>D/D Facility?</b>
21-1001	21	1775170.8	1627922.65	Type 4	16500	Not Applicable	Not Applicable	Not On Surplus List	No	No
21-1002	21	1775089.73	1627986.94	Type 4	16500	Not Applicable	Not Applicable	Not On Surplus List	No	No
21-1003	21	1774905.24	1628186.81	Type 4	192	Not Applicable	Not Applicable	Not On Surplus List	No	No
21-1004	21	1775015.77	1628100.82	Type 2	120	Not Applicable	Not Applicable	Not On Surplus List	No	No
21-1005	21	1775002.44	1628071.93	Type 2	120	Not Applicable	Not Applicable	Not On Surplus List	No	No
21-1006	21	1774988	1628051.93	Type 2	120	Not Applicable	Not Applicable	Not On Surplus List	No	No

**DP Road Site**

<b>Structure Number</b>	<b>Location- Technical Area</b>	<b>Location Coordinate Northing</b>	<b>Location Coordinate Easting</b>	<b>Type</b>	<b>Building Area (sq. ft.)</b>	<b>Regulatory Driver</b>	<b>Regulatory Status</b>	<b>Status of Investigation</b>	<b>COPCs- Has Sampling Occurred?</b>	<b>D/D Facility?</b>
21-1007	21	1774981.34	1628039.71	Type 2	120	Not Applicable	Not Applicable	Not On Surplus List	No	No
21-1008	21	1774971.34	1628025.27	Type 2	120	Not Applicable	Not Applicable	Not On Surplus List	No	No
21-1009	21	1775010.22	1628089.71	Type 2	120	Not Applicable	Not Applicable	Not On Surplus List	No	No
21-1010	21	1774945.78	1627954.17	Type 2	120	Not Applicable	Not Applicable	Not On Surplus List	No	No

**TA-21 Site**

<b>Structure Number</b>	<b>Location- Technical Area</b>	<b>Location Coordinate Northing</b>	<b>Location Coordinate Easting</b>	<b>Type</b>	<b>Building Area (sq. ft.)</b>	<b>Regulatory Driver</b>	<b>Regulatory Status</b>	<b>Status of Investigation</b>	<b>COPCs- Has Sampling Occurred?</b>	<b>D/D Facility?</b>
16-1414	16			Type 2	160	Not Applicable	Not Applicable	Not On Surplus List	No	No
21-0001	21	1774565.62	1631987.01	Type 2	1416	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes
21-0002	21	1774409.08	1632168.71	Type 5	13427	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes
21-0003	21	1774416.07	1632298.69	Type 5	13433.56	DOE Order 5400.5	Completion Report Submitted and Approved	Final Report Approved	Yes	Yes
21-0004	21	1774369.95	1632444.04	Type 5	8530.33	DOE Order 5400.5	Completion Report Submitted and Approved	Final Report Approved	Yes	Yes
21-0005	21	1774288.88	1632562.84	Type 5	16321	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes

### TA-21 Site

<b>Structure Number</b>	<b>Location- Technical Area</b>	<b>Location Coordinate Northing</b>	<b>Location Coordinate Easting</b>	<b>Type</b>	<b>Building Area (sq. ft.)</b>	<b>Regulatory Driver</b>	<b>Regulatory Status</b>	<b>Status of Investigation</b>	<b>COPCs- Has Sampling Occurred?</b>	<b>D/D Facility?</b>
21-0014	21	1774688.61	1631556.54	Type 3	3000	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes
21-0018	21			Type 4	1550	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes
21-0021	21	1774664.85	1632174.3	Type 5	4322	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes
21-0030	21	1774842.35	1631749.41	Type 3	1330.31	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes
21-0031	21	1774910.84	1631799.73	Type 3	5288.98	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes
21-0042	21	1774170.08	1632948.6	Type 2	65.27	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes

**TA-21 Site**

<b>Structure Number</b>	<b>Location- Technical Area</b>	<b>Location Coordinate Northing</b>	<b>Location Coordinate Easting</b>	<b>Type</b>	<b>Building Area (sq. ft.)</b>	<b>Regulatory Driver</b>	<b>Regulatory Status</b>	<b>Status of Investigation</b>	<b>COPCs- Has Sampling Occurred?</b>	<b>D/D Facility?</b>
21-0046	21	1774670.44	1631613.84	Type 3	1982.41	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes
21-0057	21	1774154.01	1633015.68	Type 4	623.95	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes
21-0059	21	1774028.92	1633286.83	Type 2	209.09	DOE Order 5400.5	No Completion Report	Draft Management Plan In Progress	No	Yes
21-0061	21	1773981.4	1633288.22	Type 4	1815.05	DOE Order 5400.5	No Completion Report	Draft Management Plan In Progress	No	Yes
21-0065	21	1774024.73	1633419.6	Type 2	464.23	DOE Order 5400.5	No Completion Report	Draft Management Plan In Progress	No	Yes
21-0066	21	1774026.12	1633386.06	Type 2	201.45	DOE Order 5400.5	No Completion Report	Draft Management Plan In Progress	No	Yes

### TA-21 Site

<b>Structure Number</b>	<b>Location- Technical Area</b>	<b>Location Coordinate Northing</b>	<b>Location Coordinate Easting</b>	<b>Type</b>	<b>Building Area (sq. ft.)</b>	<b>Regulatory Driver</b>	<b>Regulatory Status</b>	<b>Status of Investigation</b>	<b>COPCs- Has Sampling Occurred?</b>	<b>D/D Facility?</b>
21-0069	21			Type 2	25	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes
21-0075	21			Type 2	25	Not Applicable	Not Applicable	Not On Surplus List	No	No
21-0077	21			Type 2	25	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes
21-0080	21	1774504.12	1632233	Type 2	35.4	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes
21-0081	21			Type 2	25	Not Applicable	Not Applicable	Not On Surplus List	No	No
21-0082	21			Type 2	25	Not Applicable	Not Applicable	Not On Surplus List	No	No

### TA-21 Site

<b>Structure Number</b>	<b>Location- Technical Area</b>	<b>Location Coordinate Northing</b>	<b>Location Coordinate Easting</b>	<b>Type</b>	<b>Building Area (sq. ft.)</b>	<b>Regulatory Driver</b>	<b>Regulatory Status</b>	<b>Status of Investigation</b>	<b>COPCs- Has Sampling Occurred?</b>	<b>D/D Facility?</b>
21-0086	21	1774420.26	1632497.15	Type 2	40	DOE Order 5400.5	Completion Report Submitted and Approved	Final Report Approved	Yes	Yes
21-0087	21			Type 2	25	Not Applicable	Not Applicable	Not On Surplus List	No	No
21-0088	21			Type 2	25	Not Applicable	Not Applicable	Not On Surplus List	No	No
21-0089	21	1774382.99	1632615.86	Type 2	40	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes
21-0110	21	1774327.32	1632924.14	Type 5	450	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes
21-0111	21	1774323.12	1632938.11	Type 5	450	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes

### TA-21 Site

<b>Structure Number</b>	<b>Location- Technical Area</b>	<b>Location Coordinate Northing</b>	<b>Location Coordinate Easting</b>	<b>Type</b>	<b>Building Area (sq. ft.)</b>	<b>Regulatory Driver</b>	<b>Regulatory Status</b>	<b>Status of Investigation</b>	<b>COPCs- Has Sampling Occurred?</b>	<b>D/D Facility?</b>
21-0112	21	1774411.88	1632936.72	Type 5	450	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes
21-0113	21	1774403.46	1632951.28	Type 5	450	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes
21-0116	21	1774267.92	1632477.59	Type 5	2233.63	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes
21-0144	21			Type 2	180	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes
21-0148	21			Type 2	72	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes
21-0149	21	1774255.34	1632632.73	Type 5	3286	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes

### TA-21 Site

<b>Structure Number</b>	<b>Location- Technical Area</b>	<b>Location Coordinate Northing</b>	<b>Location Coordinate Easting</b>	<b>Type</b>	<b>Building Area (sq. ft.)</b>	<b>Regulatory Driver</b>	<b>Regulatory Status</b>	<b>Status of Investigation</b>	<b>COPCs- Has Sampling Occurred?</b>	<b>D/D Facility?</b>
21-0150	21	1774228.78	1632676.05	Type 5	14919	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes
21-0152	21	1774089.02	1633882.22	Type 5	13750.32	Not Applicable	Not Applicable	Not On Surplus List	No	No
21-0155	21	1774091.81	1633796.97	Type 5	14768.05	Not Applicable	Not Applicable	Not On Surplus List	No	No
21-0160	21	1774277.7	1633816.53	Type 2	262.65	Not Applicable	Not Applicable	Not On Surplus List	No	No
21-0164	21			Type 2	100	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes
21-0166	21	1774010.05	1633916.47	Type 5	856.85	Not Applicable	Not Applicable	Not On Surplus List	No	No

### TA-21 Site

<b>Structure Number</b>	<b>Location- Technical Area</b>	<b>Location Coordinate Northing</b>	<b>Location Coordinate Easting</b>	<b>Type</b>	<b>Building Area (sq. ft.)</b>	<b>Regulatory Driver</b>	<b>Regulatory Status</b>	<b>Status of Investigation</b>	<b>COPCs- Has Sampling Occurred?</b>	<b>D/D Facility?</b>
21-0167	21	1774133.04	1633943.72	Type 5	873.62	Not Applicable	Not Applicable	Not On Surplus List	No	No
21-0188	21			Type 2	504	Not Applicable	Not Applicable			
21-0193	21			Type 2	72	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes
21-0209	21	1774042.2	1633999.63	Type 5	23912.3	Not Applicable	Not Applicable	Not On Surplus List	No	No
21-0210	21	1774519.49	1631900.36	Type 3	20851	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes
21-0212	21	1774792.04	1632056.9	Type 4	571	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes

### TA-21 Site

<b>Structure Number</b>	<b>Location- Technical Area</b>	<b>Location Coordinate Northing</b>	<b>Location Coordinate Easting</b>	<b>Type</b>	<b>Building Area (sq. ft.)</b>	<b>Regulatory Driver</b>	<b>Regulatory Status</b>	<b>Status of Investigation</b>	<b>COPCs- Has Sampling Occurred?</b>	<b>D/D Facility?</b>
21-0213	21	1774245.56	1633840.29	Type 3	1722.94	Not Applicable	Not Applicable	Not On Surplus List	No	No
21-0216	21			Type 2	25	Not Applicable	Not Applicable	Not On Surplus List	No	No
21-0218	21			Type 2	25	Not Applicable	Not Applicable	Not On Surplus List	No	No
21-0220	21	1774199.43	1633713.11	Type 5	450	Not Applicable	Not Applicable	Not On Surplus List	No	No
21-0222	21			Type 2	25	Not Applicable	Not Applicable	Not On Surplus List	No	No
21-0223	21	1774256.74	1633756.44	Type 2	48.16	Not Applicable	Not Applicable	Not On Surplus List	No	No

### TA-21 Site

<b>Structure Number</b>	<b>Location- Technical Area</b>	<b>Location Coordinate Northing</b>	<b>Location Coordinate Easting</b>	<b>Type</b>	<b>Building Area (sq. ft.)</b>	<b>Regulatory Driver</b>	<b>Regulatory Status</b>	<b>Status of Investigation</b>	<b>COPCs- Has Sampling Occurred?</b>	<b>D/D Facility?</b>
21-0227	21	1773742.4	1635128.93	Type 4	452.61	Not Applicable	Not Applicable	Not On Surplus List	No	No
21-0228	21	1774520.89	1632558.65	Type 2	6161	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes
21-0229	21	1773747.29	1635148.49	Type 4	214.99	Not Applicable	Not Applicable	Not On Surplus List	No	No
21-0230	21	1773750.09	1635198.11	Type 4	1258.37	Not Applicable	Not Applicable	Not On Surplus List	No	No
21-0254	21	1774765.48	1631594.27	Type 2	291	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes
21-0257	21	1774302.16	1632967.46	Type 5	4229	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes

### TA-21 Site

<b>Structure Number</b>	<b>Location- Technical Area</b>	<b>Location Coordinate Northing</b>	<b>Location Coordinate Easting</b>	<b>Type</b>	<b>Building Area (sq. ft.)</b>	<b>Regulatory Driver</b>	<b>Regulatory Status</b>	<b>Status of Investigation</b>	<b>COPCs- Has Sampling Occurred?</b>	<b>D/D Facility?</b>
21-0258	21	1774859.12	1631557.93	Type 4	1600	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes
21-0259	21			Type 2	25	DOE Order 5400.5	No Completion Report	Draft Management Plan In Progress	No	Yes
21-0260	21			Type 2	25	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes
21-0261	21			Type 2	25	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes
21-0286	21	1774716.56	1632554.46	Type 4	3682.84	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes
21-0300	21			Type 2	5	DOE Order 5400.5	No Completion Report	Draft Management Plan In Progress	No	Yes

### TA-21 Site

<b>Structure Number</b>	<b>Location- Technical Area</b>	<b>Location Coordinate Northing</b>	<b>Location Coordinate Easting</b>	<b>Type</b>	<b>Building Area (sq. ft.)</b>	<b>Regulatory Driver</b>	<b>Regulatory Status</b>	<b>Status of Investigation</b>	<b>COPCs- Has Sampling Occurred?</b>	<b>D/D Facility?</b>
21-0303	21			Type 2	72	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes
21-0307	21			Type 2	72	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes
21-0308	21			Type 2	72	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes
21-0309	21			Type 2	72	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes
21-0310	21			Type 2	5	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes
21-0311	21			Type 2	5	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes

### TA-21 Site

<b>Structure Number</b>	<b>Location- Technical Area</b>	<b>Location Coordinate Northing</b>	<b>Location Coordinate Easting</b>	<b>Type</b>	<b>Building Area (sq. ft.)</b>	<b>Regulatory Driver</b>	<b>Regulatory Status</b>	<b>Status of Investigation</b>	<b>COPCs- Has Sampling Occurred?</b>	<b>D/D Facility?</b>
21-0312	21	1774421.66	1632115.6	Type 5	1805	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes
21-0313	21	1774388.12	1632216.23	Type 5	4799	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes
21-0314	21	1774337.8	1632372.76	Type 5	4610	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes
21-0315	21	1774318.03	1632496.5	Type 5	3561	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes
21-0316	21			Type 2	5	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes
21-0320	21			Type 2	5	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes

### TA-21 Site

<b>Structure Number</b>	<b>Location- Technical Area</b>	<b>Location Coordinate Northing</b>	<b>Location Coordinate Easting</b>	<b>Type</b>	<b>Building Area (sq. ft.)</b>	<b>Regulatory Driver</b>	<b>Regulatory Status</b>	<b>Status of Investigation</b>	<b>COPCs- Has Sampling Occurred?</b>	<b>D/D Facility?</b>
21-0322	21	1774058.97	1633847.63	Type 4	98	Not Applicable	Not Applicable	Not On Surplus List	No	No
21-0323	21	1774061.42	1633913.67	Type 4	99	Not Applicable	Not Applicable	Not On Surplus List	No	No
21-0328	21	1774459.4	1631975.83	Type 2	320	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes
21-0334	21	1774836.91	1631550.33	Type 2	58.55	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	Yes	Yes
21-0335	21	1774826.98	1632269.34	Type 5	100.65	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes
21-0338	21			Type 2	72	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes

### TA-21 Site

<b>Structure Number</b>	<b>Location- Technical Area</b>	<b>Location Coordinate Northing</b>	<b>Location Coordinate Easting</b>	<b>Type</b>	<b>Building Area (sq. ft.)</b>	<b>Regulatory Driver</b>	<b>Regulatory Status</b>	<b>Status of Investigation</b>	<b>COPCs- Has Sampling Occurred?</b>	<b>D/D Facility?</b>
21-0342	21	1774176.37	1632882.91	Type 4	1600	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes
21-0346	21	1774024.73	1633419.6	Type 3	720.82	Not Applicable	Not Applicable	Not On Surplus List	No	No
21-0353	21	1774381.42	1631924.73	Type 2	295.95	Not Applicable	Not Applicable	Not On Surplus List	No	No
21-0355	21	1774365.87	1632887.92	Type 4	495.09	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes
21-0357	21	1774061.07	1633011.49	Type 4	5682.02	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes
21-0359	21	1774824.18	1631802.52	Type 2	465.31	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes

### TA-21 Site

<b>Structure Number</b>	<b>Location- Technical Area</b>	<b>Location Coordinate Northing</b>	<b>Location Coordinate Easting</b>	<b>Type</b>	<b>Building Area (sq. ft.)</b>	<b>Regulatory Driver</b>	<b>Regulatory Status</b>	<b>Status of Investigation</b>	<b>COPCs- Has Sampling Occurred?</b>	<b>D/D Facility?</b>
21-0361	21	1774202.23	1632790.66	Type 2	1670.51	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes
21-0365	21	1774198.04	1632741.74	Type 2	1735.06	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes
21-0369	21	1774081.46	1633692.26	Type 2	831.69	Not Applicable	Not Applicable	Not On Surplus List	No	No
21-0370	21	1774162.4	1633937.43	Type 5	544.6	Not Applicable	Not Applicable	Not On Surplus List	No	No
21-0387	21	1773767.83	1635117.62	Type 2	65.3	Not Applicable	Not Applicable	Not On Surplus List	No	No
21-0388	21			Type 4	256	Not Applicable	Not Applicable	Not On Surplus List	No	No

### TA-21 Site

<b>Structure Number</b>	<b>Location- Technical Area</b>	<b>Location Coordinate Northing</b>	<b>Location Coordinate Easting</b>	<b>Type</b>	<b>Building Area (sq. ft.)</b>	<b>Regulatory Driver</b>	<b>Regulatory Status</b>	<b>Status of Investigation</b>	<b>COPCs- Has Sampling Occurred?</b>	<b>D/D Facility?</b>
21-0402	21	1774648.08	1632432.86	Type 2	1268.55	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes
21-0414	21	1774611.39	1632535.75	Type 2	304.52	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes
21-0427	21	1774595.83	1631500.34	Type 2	36.16	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes
21-0428	21	1774706.93	1631591.44	Type 2	231.03	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes
21-0443	21			Type 2	520	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes
21-0450	21	1774613.61	1631588.11	Type 2	248.55	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes

### TA-21 Site

<b>Structure Number</b>	<b>Location- Technical Area</b>	<b>Location Coordinate Northing</b>	<b>Location Coordinate Easting</b>	<b>Type</b>	<b>Building Area (sq. ft.)</b>	<b>Regulatory Driver</b>	<b>Regulatory Status</b>	<b>Status of Investigation</b>	<b>COPCs- Has Sampling Occurred?</b>	<b>D/D Facility?</b>
21-0451	21	1774689.15	1631579.22	Type 2	63.39	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes
21-0452	21	1773003.74	1637327.43	Type 4	594	Not Applicable	Not Applicable	Not On Surplus List	No	No
21-0454	21	1774642.49	1631477.01	Type 2	263.78	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes
21-0455	21	1774631.38	1631488.12	Type 2	320.34	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes
21-0456	21	1774615.83	1631494.79	Type 2	255.25	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes
21-0458	21	1774381.42	1631924.73	Type 2	80.23	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes

### TA-21 Site

<b>Structure Number</b>	<b>Location- Technical Area</b>	<b>Location Coordinate Northing</b>	<b>Location Coordinate Easting</b>	<b>Type</b>	<b>Building Area (sq. ft.)</b>	<b>Regulatory Driver</b>	<b>Regulatory Status</b>	<b>Status of Investigation</b>	<b>COPCs- Has Sampling Occurred?</b>	<b>D/D Facility?</b>
21-0461	21	1774722.48	1631455.9	Type 2	320.08	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes
21-0462	21	1774926.21	1631956.26	Type 2	320.02	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes
21-0466	21	1774175.67	1633990.89	Type 4	27.37	Not Applicable	Not Applicable	Not On Surplus List	No	No
21-0550	21	1774392.53	1631909.17	Type 2	191.91	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes
21-0553	21			Type 2	5	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes
21-BC	21			Type 6	100	DOE Order 5400.5	No Completion Report	Draft Management Plan Complete	No	Yes

### TA-21 Site

<b>Structure Number</b>	<b>Location- Technical Area</b>	<b>Location Coordinate Northing</b>	<b>Location Coordinate Easting</b>	<b>Type</b>	<b>Building Area (sq. ft.)</b>	<b>Regulatory Driver</b>	<b>Regulatory Status</b>	<b>Status of Investigation</b>	<b>COPCs- Has Sampling Occurred?</b>	<b>D/D Facility?</b>
63-0039	63			Type 2	208	Not Applicable	Not Applicable	Not On Surplus List	No	No
Communications	21				6068	Not Applicable	Not Applicable	Not On Surplus List	No	No
Fire Alarm System	21				1878	Not Applicable	Not Applicable	Not On Surplus List	No	No
Industrial Wastewater	21				8519	Not Applicable	Not Applicable	Not On Surplus List	No	No
No Structure Number 1	21			Type 4	200	Not Applicable	Not Applicable	Not On Surplus List	No	No
No Structure Number 2	21			Type 4	160	Not Applicable	Not Applicable	Not On Surplus List	No	No

## TA-21 Site

<b>Structure Number</b>	<b>Location- Technical Area</b>	<b>Location Coordinate Northing</b>	<b>Location Coordinate Easting</b>	<b>Type</b>	<b>Building Area (sq. ft.)</b>	<b>Regulatory Driver</b>	<b>Regulatory Status</b>	<b>Status of Investigation</b>	<b>COPCs- Has Sampling Occurred?</b>	<b>D/D Facility?</b>
No Structure Number 3	21			Type 4	35	Not Applicable	Not Applicable	Not On Surplus List	No	No
Power	21				3767	Not Applicable	Not Applicable	Not On Surplus List	No	No
Sanitary Wastewater	21				4529	Not Applicable	Not Applicable	Not On Surplus List	No	No
Steam	21				1878	Not Applicable	Not Applicable	Not On Surplus List	No	No
Supply Water	21				7659	Not Applicable	Not Applicable	Not On Surplus List	No	No

### TA-74 Site

<b>Structure Number</b>	<b>Location- Technical Area</b>	<b>Location Coordinate Northing</b>	<b>Location Coordinate Easting</b>	<b>Type</b>	<b>Building Area (sq. ft.)</b>	<b>Regulatory Driver</b>	<b>Regulatory Status</b>	<b>Status of Investigation</b>	<b>COPCs- Has Sampling Occurred?</b>	<b>D/D Facility?</b>
74-0001	74	1772365.72	1649753.92	Type 2	1600	Not Applicable	Not Applicable	Not On Surplus List	No	No
74-0002	74	1772361.53	1649771.39	Type 2	2052	Not Applicable	Not Applicable	Not On Surplus List	No	No
74-0003	74	1772338.47	1649770.7	Type 2	544	Not Applicable	Not Applicable	Not On Surplus List	No	No
74-0004	74	1772309.12	1649817.52	Type 2	36	Not Applicable	Not Applicable	Not On Surplus List	No	No
74-0005	74	1772286.51	1649872.05	Type 2	804	Not Applicable	Not Applicable	Not On Surplus List	No	No

**White Rock Site**

<b>Structure Number</b>	<b>Location- Technical Area</b>	<b>Location Coordinate Northing</b>	<b>Location Coordinate Easting</b>	<b>Type</b>	<b>Building Area (sq. ft.)</b>	<b>Regulatory Driver</b>	<b>Regulatory Status</b>	<b>Status of Investigation</b>	<b>COPCs- Has Sampling Occurred?</b>	<b>D/D Facility?</b>
54-0075	54	1756889.3	1652800.38	Type 4	1620	Not Applicable	Not Applicable	Not On Surplus List	No	No

### White Rock Y

<b>Structure Number</b>	<b>Location- Technical Area</b>	<b>Location Coordinate Northing</b>	<b>Location Coordinate Easting</b>	<b>Type</b>	<b>Building Area (sq. ft.)</b>	<b>Regulatory Driver</b>	<b>Regulatory Status</b>	<b>Status of Investigation</b>	<b>COPCs- Has Sampling Occurred?</b>	<b>D/D Facility?</b>
72-0001	72	1772024	1648750.41	Type 4	800	Not Applicable	Not Applicable	Not On Surplus List	No	No
72-0002	72	1771881.43	1648756	Type 4	314	Not Applicable	Not Applicable	Not On Surplus List	No	No
72-0003	72	1767975.71	1647916.02	Type 4	110	Not Applicable	Not Applicable	Not On Surplus List	No	No
72-0004	72			Type 4	288	Not Applicable	Not Applicable	Not On Surplus List	No	No
72-0005	72			Type 4	100	Not Applicable	Not Applicable	Not On Surplus List	No	No
72-0053	72	1768093.81	1647728.03	Type 4	48	Not Applicable	Not Applicable	Not On Surplus List	No	No

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# ***Structure Report for Land Use***

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***Does not include the following Parcels:***

***Rendija Canyon Site***

***Site 22***

***Manhattan Monument Site***

## Airport Site

**Proposed**

**Commercial and Industrial Development**

**Land Use**

Structure Number	Proposed Remedy	Expected Volume of Contaminated Materials (cu. yards)								Estimated Cost	Baseline Scope-FY 99	Schedule for Remediation
		Solid	Hazardous	LLW	TRU	Mixed	PCB	PCB/Mixed	Asbestos			
73-0001	Decommissioning	238	0	0	0	0	0	0	43	\$2,225,834	Out	NA
73-0002	Decommissioning	188	0	0	0	0	0	0	34	\$1,751,094	Out	NA
73-0003	Decommissioning	6	0	0	0	0	0	0	0	\$28,952	Out	NA
73-0005	Decommissioning	22	0	0	0	0	0	0	4	\$207,019	Out	NA

Total Number of Structures in Parcel:	Total Solid	Total Hazardous	Total LLW	Total Mixed	Total PCB	Total PCB/Mixed	Total TRU	Total Asbestos	Total Cost
4	454	0	0	0	0	0	0	81	\$4,212,899

**DOE LAAO Site**

**Proposed**

**Commercial Development**

**Land Use**

<b>Structure Number</b>	<b>Proposed Remedy</b>	<b>Expected Volume of Contaminated Materials (cu. yards)</b>								<b>Estimated Cost</b>	<b>Baseline Scope-FY 99</b>	<b>Schedule for Remediation</b>
		<b>Solid</b>	<b>Hazardous</b>	<b>LLW</b>	<b>TRU</b>	<b>Mixed</b>	<b>PCB</b>	<b>PCB/Mixed</b>	<b>Asbestos</b>			
43-0039	Decommissioning	2444	0	0	0	0	0	0	440	\$5,034,080	Out	NA
43-0040	Decommissioning	9	0	0	0	0	0	0	1.6	\$83,015	Out	NA
43-0041	Decommissioning	256	0	0	0	0	0	0	46.1	\$2,390,826	Out	NA

<b>Total Number of Structures in Parcel:</b>	<b>Total Solid</b>	<b>Total Hazardous</b>	<b>Total LLW</b>	<b>Total Mixed</b>	<b>Total PCB</b>	<b>Total PCB/Mixed</b>	<b>Total TRU</b>	<b>Total Asbestos</b>	<b>Total Cost</b>
3	2709	0	0	0	0	0	0	488	\$7,507,921

**DP Road Site**

**Proposed**

**Commercial and Industrial Development**

**Land Use**

Structure Number	Proposed Remedy	Expected Volume of Contaminated Materials (cu. yards)								Estimated Cost	Baseline Scope-FY 99	Schedule for Remediation
		Solid	Hazardous	LLW	TRU	Mixed	PCB	PCB/Mixed	Asbestos			
21-1001	Decommissioning	917	2	0	0	0	0	0	165	\$8,562,035	Out	NA
21-1002	Decommissioning	917	2	0	0	0	0	0	165	\$8,562,035	Out	NA
21-1003	Decommissioning	11	0	0	0	0	0	0	0	\$99,476	Out	NA
21-1004	Decommissioning	7	0	0	0	0	0	0	0	\$31,020	Out	NA
21-1005	Decommissioning	7	0	0	0	0	0	0	0	\$31,020	Out	NA
21-1006	Decommissioning	7	0	0	0	0	0	0	0	\$31,020	Out	NA
21-1007	Decommissioning	7	0	0	0	0	0	0	0	\$31,020	Out	NA

**DP Road Site**

**Proposed**

**Commercial and Industrial Development**

**Land Use**

<b>Structure Number</b>	<b>Proposed Remedy</b>	<b>Expected Volume of Contaminated Materials (cu. yards)</b>								<b>Estimated Cost</b>	<b>Baseline Scope-FY 99</b>	<b>Schedule for Remediation</b>
		<b>Solid</b>	<b>Hazardous</b>	<b>LLW</b>	<b>TRU</b>	<b>Mixed</b>	<b>PCB</b>	<b>PCB/Mixed</b>	<b>Asbestos</b>			
21-1008	Decommissioning	7	0	0	0	0	0	0	0	\$31,020	Out	NA
21-1009	Decommissioning	7	0	0	0	0	0	0	0	\$31,020	Out	NA
21-1010	Decommissioning	7	0	0	0	0	0	0	0	\$31,020	Out	NA

<b>Total Number of Structures in Parcel:</b>	<b>Total Solid</b>	<b>Total Hazardous</b>	<b>Total LLW</b>	<b>Total Mixed</b>	<b>Total PCB</b>	<b>Total PCB/Mixed</b>	<b>Total TRU</b>	<b>Total Asbestos</b>	<b>Total Cost</b>
10	1894	4	0	0	0	0	0	330	\$17,440,682

## TA-21 Site

**Proposed**

**Commercial and Industrial Development**

**Land Use**

Structure Number	Proposed Remedy	Expected Volume of Contaminated Materials (cu. yards)								Estimated Cost	Baseline Scope- FY 99	Schedule for Remediation
		Solid	Hazardous	LLW	TRU	Mixed	PCB	PCB/Mixed	Asbestos			
16-1414	Decommissioning	9	0	0	0	0	0	0	0	\$41,360	Out	FY 06
21-0001	Decommissioning	197	0	0	0	0	0	0	24	\$367,774	Decommissioning In	FY 05
21-0002	Decommissioning	4476	100	1394	0	60	0	0	200	\$10,813,770	Decommissioning In	FY 01
21-0003	Decommissioning	0	0	0	0	0	0	0	0	\$0	Out	FY 96
21-0004	Decommissioning	0	0	0	0	0	0	0	0	\$0	Out	FY 98
21-0005	Decommissioning	6045	0	1938	0	170	0	0	254	\$13,585,463	Decommissioning In	FY 00
21-0014	Decommissioning	556	3	0	0	0	0	0	37	\$1,133,025	Decommissioning In	FY 00

## TA-21 Site

**Proposed**

**Commercial and Industrial Development**

**Land Use**

Structure Number	Proposed Remedy	Expected Volume of Contaminated Materials (cu. yards)								Estimated Cost	Baseline Scope-FY 99	Schedule for Remediation
		Solid	Hazardous	LLW	TRU	Mixed	PCB	PCB/Mixed	Asbestos			
21-0018	Decommissioning	215	0	160	0	5	0	0	11	\$1,015,829	Decommissioning In	FY 04
21-0021	Decommissioning	1601	5	32	0	5	0	0	14	\$2,906,592	Decommissioning In	FY 02
21-0030	Decommissioning	246	10	0	0	0	0	0	10	\$506,769	Decommissioning In	FY 00
21-0031	Decommissioning	1763	30	0	0	0	0	0	73	\$2,011,753	Decommissioning In	FY 01
21-0042	Decommissioning	6	1	0	0	0	0	0	0	\$17,369	Decommissioning In	FY 05
21-0046	Decommissioning	367	20	0	0	0	0	0	18	\$758,273	Decommissioning In	FY 00
21-0057	Decommissioning	115	5	0	0	0	0	0	0	\$325,609	Decommissioning In	FY 05

## TA-21 Site

**Proposed**

**Commercial and Industrial Development**

**Land Use**

Structure Number	Proposed Remedy	Expected Volume of Contaminated Materials (cu. yards)								Estimated Cost	Baseline Scope- FY 99	Schedule for Remediation
		Solid	Hazardous	LLW	TRU	Mixed	PCB	PCB/Mixed	Asbestos			
21-0059	Decommissioning	19	5	1	0	0	0	0	0	\$57,741	Out	FY 03
21-0061	Decommissioning	252	0	30	0	20	20	0	0	\$1,039,013	Out	FY 03
21-0065	Decommissioning	43	0	1	0	5	0	0	0	\$131,248	Out	FY 03
21-0066	Decommissioning	19	0	1	0	5	0	0	0	\$63,262	Out	FY 03
21-0069	Decommissioning	1	0	0	0	0	0	0	0	\$6,463	Decommissioning In	FY 00
21-0075	Decommissioning	7	0	0	0	1	0	0	0	\$8,547	Out	NA
21-0077	Decommissioning	7	0	0	0	1	0	0	0	\$8,547	Decommissioning In	FY 05

## TA-21 Site

**Proposed**

**Commercial and Industrial Development**

**Land Use**

Structure Number	Proposed Remedy	Expected Volume of Contaminated Materials (cu. yards)								Estimated Cost	Baseline Scope- FY 99	Schedule for Remediation
		Solid	Hazardous	LLW	TRU	Mixed	PCB	PCB/Mixed	Asbestos			
21-0080	Decommissioning	2	0	0	0	2	0	0	0	\$13,216	Decommissioning In	FY 05
21-0081	Decommissioning	1	0	0	0	0	0	0	0	\$6,463	Out	FY 05
21-0082	Decommissioning	1	0	0	0	0	0	0	0	\$6,463	Out	FY 05
21-0086	Decommissioning	2	0	0	0	2	0	0	0	\$14,509	Decommissioning In	FY 05
21-0087	Decommissioning	1	0	0	0	0	0	0	0	\$6,463	Out	NA
21-0088	Decommissioning	1	0	0	0	0	0	0	0	\$6,463	Out	NA
21-0089	Decommissioning	2	0	0	0	2	0	0	0	\$14,509	Decommissioning In	FY 05

**TA-21 Site**

**Proposed**

**Commercial and Industrial Development**

**Land Use**

<b>Structure Number</b>	<b>Proposed Remedy</b>	<b>Expected Volume of Contaminated Materials (cu. yards)</b>								<b>Estimated Cost</b>	<b>Baseline Scope- FY 99</b>	<b>Schedule for Remediation</b>
		<b>Solid</b>	<b>Hazardous</b>	<b>LLW</b>	<b>TRU</b>	<b>Mixed</b>	<b>PCB</b>	<b>PCB/Mixed</b>	<b>Asbestos</b>			
21-0110	Decommissioning	63	0	19	0	2	0	0	0	\$324,470	Decommissioning In	FY 05
21-0111	Decommissioning	63	0	19	0	2	0	0	0	\$324,470	Decommissioning In	FY 05
21-0112	Decommissioning	63	0	19	0	2	0	0	0	\$324,470	Decommissioning In	FY 05
21-0113	Decommissioning	63	0	19	0	2	0	0	0	\$324,470	Decommissioning In	FY 05
21-0116	Decommissioning	310	0	156	0	0	0	0	23	\$1,671,422	Decommissioning In	FY 02
21-0144	Decommissioning	25	0	24	0	0	0	0	17	\$77,102	Decommissioning In	FY 03
21-0148	Decommissioning	7	0	0	0	0	1	0	0	\$19,596	Decommissioning In	FY 04

**TA-21 Site**

**Proposed**

**Commercial and Industrial Development**

**Land Use**

Structure Number	Proposed Remedy	Expected Volume of Contaminated Materials (cu. yards)								Estimated Cost	Baseline Scope-FY 99	Schedule for Remediation
		Solid	Hazardous	LLW	TRU	Mixed	PCB	PCB/Mixed	Asbestos			
21-0149	Decommissioning	456	0	278	0	10	0	0	29	\$2,541,365	Decommissioning In	FY 03
21-0150	Decommissioning	4973	10	3	0	50	0	0	157	\$9,971,517	Decommissioning In	FY 02
21-0152	Decommissioning	764	0	300	0	2	0	0	138	\$9,467,229	Out	FY 06
21-0155	Decommissioning	820	0	300	0	2	0	0	148	\$10,139,864	Out	FY 06
21-0160	Decommissioning	15	0	0	0	0	0	0	0	\$67,727	Out	FY 06
21-0164	Decommissioning	6	0	0	0	0	0	0	0	\$25,851	Decommissioning In	FY 06
21-0166	Decommissioning	48	0	10	0	1	0	0	9	\$580,275	Out	FY 06

**TA-21 Site**

**Proposed**

**Commercial and Industrial Development**

**Land Use**

Structure Number	Proposed Remedy	Expected Volume of Contaminated Materials (cu. yards)								Estimated Cost	Baseline Scope- FY 99	Schedule for Remediation
		Solid	Hazardous	LLW	TRU	Mixed	PCB	PCB/Mixed	Asbestos			
21-0167	Decommissioning	49	0	10	0	1	0	0	9	\$591,508	Out	FY 06
21-0188	Decommissioning	28	0	0	0	0	0	0	0	\$130,284	Out	FY 06
21-0193	Decommissioning	7	0	0	0	0	1	0	0	\$19,596	Decommissioning In	FY 05
21-0209	Decommissioning	1328	0	10	0	2	0	0	239	\$15,816,438	Out	FY 06
21-0210	Decommissioning	6950	1	0	0	1	0	0	218	\$7,862,992	Decommissioning In	FY 04
21-0212	Decommissioning	79	1	4	0	1	0	0	5	\$303,540	Decommissioning In	FY 01
21-0213	Decommissioning	96	0	0	0	1	0	0	17	\$651,180	Out	FY 06

## TA-21 Site

**Proposed**

**Commercial and Industrial Development**

**Land Use**

Structure Number	Proposed Remedy	Expected Volume of Contaminated Materials (cu. yards)								Estimated Cost	Baseline Scope-FY 99	Schedule for Remediation
		Solid	Hazardous	LLW	TRU	Mixed	PCB	PCB/Mixed	Asbestos			
21-0216	Decommissioning	1	0	0	0	0	0	0	0	\$6,463	Out	FY 06
21-0218	Decommissioning	1	0	0	0	0	0	0	0	\$6,463	Out	FY 06
21-0220	Decommissioning	25	0	10	0	2	0	0	0	\$313,763	Out	FY 06
21-0222	Decommissioning	1	0	0	0	0	0	0	0	\$6,463	Out	FY 06
21-0223	Decommissioning	3	0	0	0	0	0	0	0	\$12,408	Out	FY 06
21-0227	Decommissioning	25	0	0	0	0	0	0	0	\$234,181	Out	FY 06
21-0228	Decommissioning	1711	10	4	0	50	0	0	0	\$1,707,169	Decommissioning In	FY 03

## TA-21 Site

**Proposed**

**Commercial and Industrial Development**

**Land Use**

Structure Number	Proposed Remedy	Expected Volume of Contaminated Materials (cu. yards)								Estimated Cost	Baseline Scope-FY 99	Schedule for Remediation
		Solid	Hazardous	LLW	TRU	Mixed	PCB	PCB/Mixed	Asbestos			
21-0229	Decommissioning	12	0	0	0	0	0	0	0	\$110,873	Out	FY 06
21-0230	Decommissioning	70	0	0	0	2	0	0	0	\$655,938	Out	FY 06
21-0254	Decommissioning	40	0	0	0	0	0	0	2	\$75,387	Decommissioning In	FY 00
21-0257	Decommissioning	1566	0	556	0	50	0	0	42	\$3,598,292	Decommissioning In	FY 04
21-0258	Decommissioning	474	0	0	0	0	0	0	0	\$828,960	Decommissioning In	FY 05
21-0259	Decommissioning	1	0	0	0	0	0	0	0	\$6,463	Out	FY 05
21-0260	Decommissioning	7	0	0	0	1	0	0	0	\$8,547	Decommissioning In	FY 00

**TA-21 Site**

**Proposed**

**Commercial and Industrial Development**

**Land Use**

<b>Structure Number</b>	<b>Proposed Remedy</b>	<b>Expected Volume of Contaminated Materials (cu. yards)</b>								<b>Estimated Cost</b>	<b>Baseline Scope-FY 99</b>	<b>Schedule for Remediation</b>
		<b>Solid</b>	<b>Hazardous</b>	<b>LLW</b>	<b>TRU</b>	<b>Mixed</b>	<b>PCB</b>	<b>PCB/Mixed</b>	<b>Asbestos</b>			
21-0261	Decommissioning	7	0	0	0	1	0	0	0	\$8,547	Decommissioning In	FY 05
21-0286	Decommissioning	682	0	111	0	5	0	0	7	\$2,058,539	Decommissioning In	FY 01
21-0300	Decommissioning	2	0	0	0	0	0	0	0	\$1,293	Out	FY 05
21-0303	Decommissioning	7	0	0	0	0	1	0	0	\$19,596	Decommissioning In	FY 05
21-0307	Decommissioning	7	0	0	0	0	1	0	0	\$19,596	Decommissioning In	FY 05
21-0308	Decommissioning	7	0	0	0	0	1	0	0	\$19,596	Decommissioning In	FY 05
21-0309	Decommissioning	7	0	0	0	0	1	0	0	\$19,596	Decommissioning In	FY 05

**TA-21 Site**

**Proposed**

**Commercial and Industrial Development**

**Land Use**

Structure Number	Proposed Remedy	Expected Volume of Contaminated Materials (cu. yards)								Estimated Cost	Baseline Scope- FY 99	Schedule for Remediation
		Solid	Hazardous	LLW	TRU	Mixed	PCB	PCB/Mixed	Asbestos			
21-0310	Decommissioning	2	0	0	0	0	0	0	0	\$1,293	Decommissioning In	FY 05
21-0311	Decommissioning	2	0	0	0	0	0	0	0	\$1,293	Decommissioning In	FY 05
21-0312	Decommissioning	251	0	234	0	10	0	0	14	\$1,507,878	Decommissioning In	FY 02
21-0313	Decommissioning	1425	0	506	0	50	0	0	51	\$3,912,132	Decommissioning In	FY 03
21-0314	Decommissioning	1303	0	442	0	50	0	0	25	\$3,705,506	Decommissioning In	FY 04
21-0315	Decommissioning	1012	0	345	0	25	0	0	24	\$2,838,682	Decommissioning In	FY 04
21-0316	Decommissioning	2	0	0	0	0	0	0	0	\$1,293	Decommissioning In	FY 05

**TA-21 Site**

**Proposed**

**Commercial and Industrial Development**

**Land Use**

<b>Structure Number</b>	<b>Proposed Remedy</b>	<b>Expected Volume of Contaminated Materials (cu. yards)</b>								<b>Estimated Cost</b>	<b>Baseline Scope-FY 99</b>	<b>Schedule for Remediation</b>
		<b>Solid</b>	<b>Hazardous</b>	<b>LLW</b>	<b>TRU</b>	<b>Mixed PCB</b>	<b>PCB/Mixed</b>	<b>Asbestos</b>				
21-0320	Decommissioning	2	0	0	0	0	0	0	0	\$1,293	Decommissioning In	FY 05
21-0322	Decommissioning	5	0	0	0	0	0	0	0	\$50,774	Out	FY 06
21-0323	Decommissioning	6	0	0	0	0	0	0	0	\$51,292	Out	FY 06
21-0328	Decommissioning	44	5	0	0	0	0	0	3	\$85,745	Decommissioning In	FY 04
21-0334	Decommissioning	8	0	0	0	0	0	0	0	\$14,993	Decommissioning In	FY 05
21-0335	Decommissioning	14	0	19	0	1	0	0	0	\$91,386	Decommissioning In	FY 01
21-0338	Decommissioning	7	0	0	0	0	1	0	0	\$19,596	Decommissioning In	FY 05

**TA-21 Site**

**Proposed**

**Commercial and Industrial Development**

**Land Use**

Structure Number	Proposed Remedy	Expected Volume of Contaminated Materials (cu. yards)								Estimated Cost	Baseline Scope-FY 99	Schedule for Remediation
		Solid	Hazardous	LLW	TRU	Mixed PCB	PCB/Mixed	Asbestos				
21-0342	Decommissioning	474	0	0	0	0	0	0	0	\$828,960	Decommissioning In	FY 05
21-0346	Decommissioning	40	0	0	0	0	0	0	0	\$270,863	Out	FY 06
21-0353	Decommissioning	109	0	0	0	0	0	0	0	\$76,258	Out	FY 05
21-0355	Decommissioning	183	0	19	0	20	0	0	4	\$321,777	Decommissioning In	FY 05
21-0357	Decommissioning	1578	20	0	0	0	0	0	8	\$2,955,754	Decommissioning In	FY 05
21-0359	Decommissioning	43	1	0	0	0	0	0	4	\$121,088	Decommissioning In	FY 00
21-0361	Decommissioning	155	0	0	0	0	0	0	18	\$432,994	Decommissioning In	FY 05

## TA-21 Site

**Proposed**

**Commercial and Industrial Development**

**Land Use**

Structure Number	Proposed Remedy	Expected Volume of Contaminated Materials (cu. yards)								Estimated Cost	Baseline Scope-FY 99	Schedule for Remediation
		Solid	Hazardous	LLW	TRU	Mixed	PCB	PCB/Mixed	Asbestos			
21-0365	Decommissioning	161	0	0	0	0	0	0	16	\$449,678	Decommissioning In	FY 05
21-0369	Decommissioning	46	0	0	0	0	0	0	8	\$215,431	Out	FY 06
21-0370	Decommissioning	30	0	10	0	1	0	0	0	\$373,719	Out	FY 06
21-0387	Decommissioning	4	0	0	0	0	0	0	0	\$16,802	Out	FY 06
21-0388	Decommissioning	14	0	0	0	0	0	0	0	\$132,634	Out	FY 06
21-0402	Decommissioning	176	0	0	0	0	0	0	0	\$327,778	Decommissioning In	FY 05
21-0414	Decommissioning	127	5	0	0	0	0	0	0	\$81,416	Decommissioning In	FY 05

**TA-21 Site**

**Proposed**

**Commercial and Industrial Development**

**Land Use**

<b>Structure Number</b>	<b>Proposed Remedy</b>	<b>Expected Volume of Contaminated Materials (cu. yards)</b>								<b>Estimated Cost</b>	<b>Baseline Scope-FY 99</b>	<b>Schedule for Remediation</b>
		<b>Solid</b>	<b>Hazardous</b>	<b>LLW</b>	<b>TRU</b>	<b>Mixed PCB</b>	<b>PCB/Mixed</b>	<b>Asbestos</b>				
21-0427	Decommissioning	3	1	0	0	0	0	0	0	\$9,872	Decommissioning In	FY 00
21-0428	Decommissioning	21.4	5	0	0	0	0	0	0	\$62,546	Decommissioning In	FY 00
21-0443	Decommissioning	48	1	0	0	0	0	0	3	\$135,240	Decommissioning In	FY 00
21-0450	Decommissioning	103	5	0	0	0	0	0	0	\$66,940	Decommissioning In	FY 00
21-0451	Decommissioning	6	1	0	0	0	0	0	0	\$16,852	Decommissioning In	FY 00
21-0452	Decommissioning	33	0	0	0	0	0	0	0	\$307,752	Out	NA
21-0454	Decommissioning	110	5	0	0	0	0	0	0	\$70,818	Decommissioning In	FY 00

**TA-21 Site**

**Proposed**

**Commercial and Industrial Development**

**Land Use**

Structure Number	Proposed Remedy	Expected Volume of Contaminated Materials (cu. yards)								Estimated Cost	Baseline Scope-FY 99	Schedule for Remediation
		Solid	Hazardous	LLW	TRU	Mixed	PCB	PCB/Mixed	Asbestos			
21-0455	Decommissioning	133	5	0	0	0	0	0	0	\$85,553	Decommissioning In	FY 00
21-0456	Decommissioning	106	5	0	0	0	0	0	1	\$68,779	Decommissioning In	FY 00
21-0458	Decommissioning	7	0	0	0	0	0	0	0	\$20,680	Decommissioning In	FY 00
21-0461	Decommissioning	30	0	0	0	0	0	0	3	\$82,965	Decommissioning In	FY 00
21-0462	Decommissioning	30	5	0	0	0	0	0	0	\$85,553	Decommissioning In	FY 00
21-0466	Decommissioning	2	0	0	0	0	0	0	0	\$13,988	Out	FY 06
21-0550	Decommissioning	27	1	0	0	0	0	0	0	\$49,940	Decommissioning In	FY 05

## TA-21 Site

**Proposed**

**Commercial and Industrial Development**

**Land Use**

Structure Number	Proposed Remedy	Expected Volume of Contaminated Materials (cu. yards)								Estimated Cost	Baseline Scope-FY 99	Schedule for Remediation
		Solid	Hazardous	LLW	TRU	Mixed	PCB	PCB/Mixed	Asbestos			
21-0553	Decommissioning	2	0	0	0	0	0	0	0	\$1,293	Decommissioning In	FY 05
21-BC	Decommissioning	56	0	37	0	0	0	0	0	\$266,602	Out	FY 05
63-0039	Decommissioning	87	0	0	0	0	0	0	0	\$53,768	Out	FY 06
Communications	Decommissioning	169	0	0	0	0	0	0	0	\$1,001,220	Partial	FY 06
Fire Alarm System	Decommissioning	169	0	0	0	0	0	0	0	\$1,001,220	Out	FY 06
Industrial Wastewater	Decommissioning	473	0	244	0	0	0	0	0	\$7,025,339	Partial	FY 06
No Structure Number 1	Decommissioning	0	0	0	0	4	0	0	2	\$112,107	Out	NA

## TA-21 Site

**Proposed**

**Commercial and Industrial Development**

**Land Use**

Structure Number	Proposed Remedy	Expected Volume of Contaminated Materials (cu. yards)								Estimated Cost	Baseline Scope-FY 99	Schedule for Remediation
		Solid	Hazardous	LLW	TRU	Mixed	PCB	PCB/Mixed	Asbestos			
No Structure Number 2	Decommissioning	0	0	0	0	0	0	0	1.6	\$83,015	Out	NA
No Structure Number 3	Decommissioning	0	0	0	0	0	0	0	0.4	\$18,159	Out	NA
Power	Decommissioning	0	0	0	0	0	0	0	0	\$1,243,110	Partial	FY 06
Sanitary Wastewater	Decommissioning	252	0	0	0	0	0	0	0	\$1,494,570	Partial	FY 06
Steam	Decommissioning	104	0	0	0	0	0	0	42	\$625,933	Partial	FY 06
Supply Water	Decommissioning	426	0	0	0	0	0	0	0	\$2,527,470	Partial	FY 06

Total Number of Structures in Parcel:	Total Solid	Total Hazardous	Total LLW	Total Mixed	Total PCB	Total PCB/Mixed	Total TRU	Total Asbestos	Total Cost
125	46440	266	7265	629	27	0	0	1929	\$141,239,584

**TA-74 Site**

**Proposed**

**Preservation**

**Land Use**

<b>Structure Number</b>	<b>Proposed Remedy</b>	<b>Expected Volume of Contaminated Materials (cu. yards)</b>								<b>Estimated Cost</b>	<b>Baseline Scope-FY 99</b>	<b>Schedule for Remediation</b>
		<b>Solid</b>	<b>Hazardous</b>	<b>LLW</b>	<b>TRU</b>	<b>Mixed</b>	<b>PCB</b>	<b>PCB/Mixed</b>	<b>Asbestos</b>			
74-0001	Decommissioning	89	0	0	0	0	0	0	16	\$414,788	Out	NA
74-0002	Decommissioning	114	0	0	0	0	0	0	21	\$531,965	Out	NA
74-0003	Decommissioning	30	0	0	0	0	0	0	5	\$141,028	Out	NA
74-0004	Decommissioning	2	0	0	0	0	0	0	0	\$9,306	Out	NA
74-0005	Decommissioning	45	0	0	0	0	0	0	0	\$207,834	Out	NA

<b>Total Number of Structures in Parcel:</b>	<b>Total Solid</b>	<b>Total Hazardous</b>	<b>Total LLW</b>	<b>Total Mixed</b>	<b>Total PCB</b>	<b>Total PCB/Mixed</b>	<b>Total TRU</b>	<b>Total Asbestos</b>	<b>Total Cost</b>
5	280	0	0	0	0	0	0	42	\$1,304,920

## White Rock Site

**Proposed**

**Preservation**

**Land Use**

Structure Number	Proposed Remedy	Expected Volume of Contaminated Materials (cu. yards)								Estimated Cost	Baseline Scope-FY 99	Schedule for Remediation
		Solid	Hazardous	LLW	TRU	Mixed	PCB	PCB/Mixed	Asbestos			
54-0075	Decommissioning	90	0	0	0	0	0	0	16.2	\$840,525	Out	NA

Total Number of Structures in Parcel:	Total Solid	Total Hazardous	Total LLW	Total Mixed	Total PCB	Total PCB/Mixed	Total TRU	Total Asbestos	Total Cost
1	90	0	0	0	0	0	0	16.2	\$840,525

**White Rock Y**

**Proposed**

**Preservation**

**Land Use**

Structure Number	Proposed Remedy	Expected Volume of Contaminated Materials (cu. yards)								Estimated Cost	Baseline Scope-FY 99	Schedule for Remediation
		Solid	Hazardous	LLW	TRU	Mixed	PCB	PCB/Mixed	Asbestos			
72-0001	Decommissioning	44	0	0	0	0	0	0	8	\$415,074	Out	NA
72-0002	Decommissioning	17	0	0	0	0	0	0	0	\$162,683	Out	NA
72-0003	Decommissioning	6	0	0	0	0	0	0	1	\$57,073	Out	NA
72-0004	Decommissioning	16	0	0	0	0	0	0	2.9	\$145,112	Out	NA
72-0005	Decommissioning	6	0	0	0	0	0	0	1	\$50,521	Out	NA
72-0053	Decommissioning	3	0	0	0	0	0	0	0	\$24,868	Out	NA

<b>Total Number of Structures in Parcel:</b>	6	<b>Total Solid</b>	<b>Total Hazardous</b>	<b>Total LLW</b>	<b>Total Mixed</b>	<b>Total PCB</b>	<b>Total PCB/Mixed</b>	<b>Total TRU</b>	<b>Total Asbestos</b>	<b>Total Cost</b>
		92	0	0	0	0	0	0	12.9	\$855,331

**APPENDIX B**

**ONE-PAGE SUMMARIES OF PRSs**

**Within**

**LAND TRANSFER PARCELS AND 50-FOOT BUFFER ZONES**

## Potential Release Site (PRS) – 21-002(a)

**Location:** TA-21 Site

**Category:** Surface Unit

**Ten-Year Plan Description:** Surface Unit

**History:** This PRS was established to represent any additional unidentified storage/container areas located at TA-21. However, it has been determined that no additional unidentified storage/container areas existed at TA-21 and these sites should not have been listed as a PRS. A permit modification is required to remove the site from the HSWA Permit.

**Current Regulatory Status:** This PRS is on the HSWA Permit.

**Proposed Remedy:** No remedial action is anticipated to be necessary.

**Future Actions Required:** None.

**References:** *“TA-21 Operable Unit RFI Work Plan for Environmental Restoration,”* May 1991, LA-UR-91-962.

## Potential Release Site (PRS) – 21-002(b)

**Location:** TA-21 Site

**Category:** Surface Unit

**Ten-Year Plan Description:** Surface Unit

**History:** PRS 21-002 (b) is an inactive container storage area. The RFI conducted in 1994 identified lead above the screening action level in a localized area.

**Current Regulatory Status:** This PRS is not on the HSWA Permit and was proposed for no further action (NFA) on the basis of human health risk, alone. The Department of Energy (DOE) has not yet concurred with this recommendation.

**Proposed Remedy:** No remedial action is anticipated to be necessary.

**Future Actions Required:** Conduct additional confirmation sampling to support a recommendation of integrated NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water and surface water quality.

**References:** *“TA-21 Operable Unit RFI Work Plan for Environmental Restoration,”* May 1991, LA-UR-91-962.

## Potential Release Sites (PRSs) - 21-003 and 21-013(f)

**Location:** TA-21 Site

**Category:** Surface Units

**Ten-Year Plan Description:** Surface Units

**History:** PRS 21-003 is Building TA-21-61. Building TA-21-61 was built in 1950 to support the ROVER project (Nuclear Rocket Program). The operations included the use of an electric furnace to coat reactor parts (including fuel rods). The building was also used as a metal fabrication shop in the late 1960s and early 1970s. Building TA-21-61 was then used as a storage area for PCB-bearing equipment and PCB-contaminated waste, oils, solvents and trash. PCB management operations stopped in 1989. PRS 21-013(f) is defined as a surface disposal area based on aerial photos from 1949. Mounds (assumed to be dirt) were located in the same area as the current location of Building TA-21-61. The RFI started in 1994. The area was sampled and results indicated that the soil at the site is contaminated with radionuclides, PCBs, and F-listed solvents. The entire PRS is located within the bounds of known PCB contaminants.

**Current Regulatory Status:** PRS 21-003 is on the HSWA Permit; PRS 21-013(f) is not on the HSWA Permit. Both sites are under investigation.

**Proposed Remedy:** In situ treatment, if necessary.

**Future Actions Required:** Implement the sampling and analysis plan and support the Corrective Measures Study/Corrective Measures Implementation (CMS/CMI) process. The CMS/CMI process will evaluate alternatives that include in situ treatment options and confirmatory sampling to support a recommendation of integrated NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water and surface water quality.

**References:** "TA-21 Operable Unit RFI Work Plan for Environmental Restoration," May 1991, LA-UR-91-962.

## Potential Release Site (PRS) – 21-004(a)

**Location:** TA-21 Site

**Category:** Surface Unit

**Ten-Year Plan Description:** Surface Unit

**History:** This PRS includes an aboveground tank and a drain line located north of building TA 21-21 (the plutonium storage vault). The tank replaced an outfall (21-024[1]) that was connected to floor drains in TA 21-021. The tank was opened, and swipe samples were taken in 1994. The results indicate that no removable radioactivity is present in the tank.

**Current Regulatory Status:** This PRS is not on the HSWA Permit and was proposed for no further action (NFA) on the basis on human health risk, alone. The Department of Energy (DOE) has not yet concurred with this recommendation.

**Proposed Remedy:** Aggregated with D&D of associated structure.

**Future Actions Required:** Coordinate confirmation sampling activities with D&D activities to support a recommendation of integrated NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water and surface water quality.

**References:** "TA-21 Operable Unit RFI Work Plan for Environmental Restoration," May 1991, LA-UR-91-962.

## Potential Release Sites (PRSs) – 21-004(b and c)

**Location:** TA-21 Site

**Category:** Surface Units

**Ten-Year Plan Description:** Surface Units

**History:** PRS 21-004 (b) and PRS 21-004 (c) are aboveground tanks connected to sump TA-21-223. The tanks replaced outfall 21-004(d). Sump TA-21-223 received industrial waste from DP East and pumped the waste to treatment facilities located at DP West. There are no known releases from the tanks.

**Current Regulatory Status:** PRSs 21-004 (b and c) are on the HSWA Permit and were proposed for no further action (NFA) on the basis on human health risk, alone. The New Mexico Environment Department (NMED) has not yet concurred with this recommendation.

**Proposed Remedy:** No remedial action is anticipated to be necessary.

**Future Actions Required:** Coordinate confirmation sampling activities with D&D activities to support a recommendation for integrated NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water and surface water quality.

**References:** "TA-21 Operable Unit RFI Work Plan for Environmental Restoration," May 1991, LA-UR-91-962. "Phase Report 1B TA-21 Operable Unit RFI Operable Unit Wide Surface Soil, Deposition Layer and Filter Building Investigation," January 1994, LA-UR-93-4390. "Phase Report Addendum 1B and 1C Operable Unit 1106," January 1995, LA-UR-4360.

## Potential Release Site (PRS) - 21-004(d)

**Location:** TA-21 Site

**Category:** Outfall

**Ten-Year Plan Description:** Outfall

**History:** PRS 21-004(d) is a drain line and outfall that discharged overflow from sump TA-21-223 that carried waste from DP East to DP West for treatment at the liquid radioactive waste treatment facility. The drain line discharged into DP Canyon up to 1979 when overflow collection tanks were installed. The sump was not equipped with an overflow alarm; no discharges were documented. The PRS was investigated in 1992. Tritium was found at above background levels.

**Current Regulatory Status:** This PRS is not on the HSWA Permit and was proposed for no further action (NFA) on the basis on human health risk, alone. The Department of Energy (DOE) has not yet concurred with this recommendation.

**Proposed Remedy:** No remedial action is anticipated to be necessary.

**Future Actions Required:** Conduct additional characterization and confirmatory samples (as necessary) to support a recommendation for integrated NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water and surface water quality.

**References:** "TA-21 Operable Unit RFI Work Plan for Environmental Restoration," May 1991, LA-UR-91-962. "Concurrence in No further Action Recommendations," memo from T. Taylor, Program Manager Environmental Restoration Program, Department of Energy Los Alamos Area Office, to J. Jansen, Project Manager Environmental Restoration Program, University of California, Los Alamos National Laboratory, November 1995.

## Potential Release Site (PRS) - 21-005

**Location:** TA-21 Site

**Category:** Subsurface Unit

**Ten-Year Plan Description:** Subsurface Unit

**History:** PRS 21-005 was a concrete sump used as an acid pit to dissolve classified documents by digesting the paper in concentrated acid. The pit and contents were removed in 1967. There were no known releases and no radiological constituents.

**Current Regulatory Status:** This PRS is on the HSWA Permit and is under investigation.

**Proposed Remedy:** No remedial action is anticipated to be necessary.

**Future Actions Required:** Conduct characterization sampling and confirmatory sampling (as necessary) to support a recommendation of integrated NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water and surface water quality.

**References:** "TA-21 Operable Unit RFI Work Plan for Environmental Restoration," May 1991, LA-UR-91-962.

## Potential Release Site (PRS) - 21-006(a)

**Location:** TA-21 Site

**Category:** Subsurface Unit

**Ten-Year Plan Description:** Subsurface Unit

**History:** PRS 21-006(a) is an unmarked, underground seepage pit, located between buildings TA-21-2 and TA-21-3. The pit was used to dispose of liquids used to decontaminate radioactive materials containers. The liquids contained ethylene glycol, phosphoric acid, and plutonium. It is not known if the seepage pit is located on the north or south side of the corridor connecting the buildings. If it is on the south side of the corridor, the pit may be the same as PRS 21-006(c) and (d). If it is on the north side, it may be the same as PRS 21-023(d). This PRS will be combined with the D&D investigations and activities for buildings TA-21-2 and TA-21-3.

**Current Regulatory Status:** This PRS is on the HSWA Permit and is under investigation.

**Proposed Remedy:** Removal of structure and residual contamination, if any.

**Future Actions Required:** Coordinate characterization sampling, removal of structures and residual contamination, and confirmation sampling with D&D activities to support a recommendation of integrated NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water and surface water quality.

**References:** *"TA-21 Operable Unit RFI Work Plan for Environmental Restoration,"* May 1991, LA-UR-91-962.

## Potential Release Site (PRS) - 21-006(b)

**Location:** TA-21 Site

**Category:** Subsurface Unit

**Ten-Year Plan Description:** Subsurface Unit

**History:** PRS 21-006(b) was an ether seepage pit, drain line, and outfall that discharged ether extraction waste from building TA-21-2. The system routed ether waste from the plutonium processing building to an unlined seepage pit, then to an outfall location near the edge of Los Alamos Canyon. Since the operation producing the ether waste was a component of the plutonium purification process, the system discharged ether waste that potentially carried radionuclides. The outfall location was investigated in 1988 and 1992, and elevated levels of americium, cesium, and plutonium isotopes were found.

**Current Regulatory Status:** This PRS is on the HSWA Permit and is under investigation.

**Proposed Remedy:** Removal of structures and residual contamination, if any.

**Future Actions Required:** Conduct characterization sampling and removal remaining structures and residual contamination (if any), and conduct confirmatory sampling to support a recommendation of integrated NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water and surface water quality.

**References:** *"TA-21 Operable Unit RFI Work Plan for Environmental Restoration,"* May 1991, LA-UR-91-962. *"TA-21 OU RFI Phase Report 1C,"* February 1994, LA-UR-94-228. *"Phase Report Addendum 1B and 1C Operable Unit 1106,"* January 1995, LA-UR-4360.

## Potential Release Sites (PRSs) - 21-006(c) and (d)

**Location:** TA-21 Site

**Category:** Subsurface Unit

**Ten-Year Plan Description:** Subsurface Units

**History:** PRSs 21-006(c and d) are thought to be the same PRS, based on uncertainties stated in the TA-21 RFI Workplan. The site is an underground seepage pit located outside of room 322 in building TA-21-3. The pit was used to dispose of liquids used to decontaminate radioactive materials containers from a drain in room 322. The liquids contained ethylene glycol, phosphoric acid, and plutonium. Because of additions to building TA-21-3, the location of pit is under rooms 3133 and 3131 of the addition.

**Current Regulatory Status:** These PRSs are on the HSWA Permit and are under investigation.

**Proposed Remedy:** Removal of structures (if present) and residual contamination, if any.

**Future Actions Required:** Coordinate characterization sampling, removal of structures and residual contamination (if any), and confirmatory sampling with D&D activities to support a recommendation of integrated no further action (NFA). This requires demonstrating that the site does not impact human health, the environment, and ground water and surface water quality.

**References:** "TA-21 Operable Unit RFI Work Plan for Environmental Restoration," May 1991, LA-UR-91-962.

## Potential Release Sites (PRSs) - 21-006(e) and (f)

**Location:** TA-21 Site

**Category:** Subsurface Unit

**Ten-Year Plan Description:** Subsurface Unit

**History:** PRS 21-006 (e) is located south of Building 4 in TA-21. The waste discharged to this pit is unknown, and its exact location has not been determined. PRS 21-006 (f) was a seepage pit adjacent to Building 4 and received fluorine waste contaminated with plutonium. This pit (if present) has been paved over. It is likely that these PRSs are duplicates of the same site. Visual inspections of building TA-21-4 both prior to and after demolition did not indicate any lines or foundation penetrations in the vicinity where the PRSs are described to have existed. These PRSs will be combined with the D&D investigations and activities for building TA-21-4.

**Current Regulatory Status:** PRS 21-006(e) is on the HSWA Permit while PRS 21-006(f) is not on the HSWA Permit. Both PRSs are under investigation.

**Proposed Remedy:** No remedial action is anticipated to be necessary.

**Future Actions Required:** Coordinate characterization sampling, removal of structures and residual contamination (if any), and confirmatory sampling with D&D activities to support a recommendation of integrated no further action (NFA). This requires demonstrating that the site does not impact human health, the environment, and ground water and surface water quality.

**References:** "TA-21 Operable Unit RFI Work Plan for Environmental Restoration," May 1991, LA-UR-91-962.

## Potential Release Site (PRS) - 21-007

**Location:** TA-21 Site

**Category:** Incinerator

**Ten-Year Plan Description:** Incinerator

**History:** Mobile salamander incinerators were used at MDA T to incinerate waste oils and organics contaminated with radionuclides to reduce their volumes and to convert them to a form which would mix with cement. These units were mobile and have been removed. Studies on the use of salamanders and components of their emissions found that no contamination of the ground surrounding the burner occurred. Soot in the stack and burner ash contained plutonium. The ash was sent to radioactive burial pits.

**Current Regulatory Status:** This PRS is on the HSWA Permit and was proposed for no further action (NFA) on the basis on human health risk, alone. The New Mexico Environment Department (NMED) has not yet concurred with this recommendation.

**Proposed Remedy:** No remedial action is anticipated to be necessary.

**Future Actions Required:** Conduct confirmatory sampling (as necessary) to support a recommendation of integrated NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water and surface water quality.

**References:** "TA-21 Operable Unit RFI Work Plan for Environmental Restoration," May 1991, LA-UR-91-962.

## Potential Release Site (PRS) - 21-008

**Location:** TA-21 Site

**Category:** Incinerator

**Ten-Year Plan Description:** Incinerator

**History:** PRS 21-008 were incinerators in buildings TA-21-2 and TA-21-3 that burned scrap and rags. Exhaust from these incinerators was part of the group of stack emission sources for airborne releases from TA-21 operations. Plutonium and uranium isotopes were discharged from these incinerators.

**Current Regulatory Status:** This PRS is not on the HSWA Permit and was proposed for no further action (NFA) on the basis on human health risk, alone. NFA concurrence has been received from the Department of Energy (DOE).

**Proposed Remedy:** No remedial action is anticipated to be necessary.

**Future Actions Required:** Conduct a radiological survey and confirmatory sampling (as necessary) to support a recommendation of integrated NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water and surface water quality.

**References:** *"TA-21 Operable Unit RFI Work Plan for Environmental Restoration,"* May 1991, LA-UR-91-962. *"Phase Report 1B TA-21 RFI Operable Unit-Wide Surface Soil, Deposition Layer and Filter Building Investigation,"* January 1994, LA-UR-93-4390. *"Phase Report Addendum 1B and 1C Operable Unit 1106,"* January 1995, LA-UR-4360. *"Concurrence in No further Action Recommendations,"* memo from T. Taylor, Program Manager Environmental Restoration Program, Department of Energy Los Alamos Area Office, to J. Jansen, Project Manager Environmental Restoration Program, University of California, Los Alamos National Laboratory, November 1995.

## Potential Release Site (PRS) - 21-009

**Location:** TA-21 Site

**Category:** Surface Unit

**Ten-Year Plan Description:** Surface Unit

**History:** PRS 21-009 was the old waste treatment laboratory located in building TA-21-33. The building was transported to TA-54 and burned. The piles were disposed of at surface disposal area 21-013(b) and (g).

**Current Regulatory Status:** This PRS is not on the HSWA Permit and is under investigation.

**Proposed Remedy:** In Situ containment, if necessary.

**Future Actions Required:** Conduct characterization sampling and prepare and implement plans to contain site in place (as part of the adjacent MDA cap design) to support a recommendation of integrated NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water and surface water quality.

**References:** *"TA-21 Operable Unit RFI Work Plan for Environmental Restoration,"* May 1991, LA-UR-91-962.

## Potential Release Sites (PRSs) - 21-011(a) and (d-j)

**Location:** TA-21 Site

**Category:** Surface Units

**Ten-Year Plan Description:** Surface Units

**History:** This is an aggregate of eight PRSs associated with the wastewater treatment plant at TA-21. The releases are in close proximity to MDA T (PRS 21-016(a)). The treatment facility began operations in 1967, replacing the old treatment facility (aggregate PRS 21-010) at building TA-21-35. The facility used precipitation and flocculation treatment processes. Some pH adjustments were performed to optimize treatment. The plant is still operational; however, its waste streams have significantly reduced since DP West operations have been relocated. The current operations include pretreatment and pumping to the LANL waste treatment facility located at TA-50.

PRS 21-011(a) was the waste treatment plant TA-21-257 put into operation in 1967 after the previous plant TA-21-35 ceased operations. The plant treated liquid waste from plutonium processing operations associated with DP site. The plant was used to treat and prepare waste for disposal at MDA T and discharge through an outfall (21-011k) to DP Canyon. The plant contained a clarifier/flocculator, storage tanks, and pumps. A cement silo also existed at the treatment plant.

PRS 21-011(d) was an acid holding tank (TA-21-110) located near building TA-21-257. The tank was a 13,500 gal. aboveground tank that received acid waste from DP East.

PRS 21-011(e) was an acid holding tank (TA-21-111) located near building TA-21-257. This tank was a 13,500 gal. aboveground tank that received acid waste from DP West and from tanks known as the "General's Tanks" (two 50,000 gallon tanks used to store highly enriched plutonium solutions), which are buried at MDA A. The years this tank received waste are not known.

PRS 21-011(f) was an effluent holding tank (TA-21-112) located near building TA-21-257. The tank was a 12,700 gal. aboveground tank that received effluent waste originally from TA-21-35, then after 1967, from TA-21-257. The treated effluent was retained in the tank for three to five days, then discharged to DP Canyon at outfall 21-011(k). After 1982 the effluent was pumped to TA-50 for additional treatment prior to discharge.

PRS 21-011(g) was an effluent holding tank (TA-21-113) located near building TA-21-257. The tank was a 12,700 gal. aboveground tank that received effluent waste originally from TA-21-35, then after 1967, from TA-21-257. The treated effluent was retained in the tank for three to five days, then discharged to DP Canyon at outfall 21-011(k). After 1982 the effluent was pumped to TA-50 for additional treatment prior to discharge.

PRS 21-011(h) was an acid storage tank (TA-21-256) located near building TA-21-257. The tank was a 2,000 gal. aboveground acid storage tank that was known as the Pug Mill Tank. The tank was removed in 1986.

PRS 21-011(i) was a sodium hydroxide storage tank (TA-21-288) located near building TA-21-257. The tank was a 1,000 gal. aboveground storage tank that was installed in 1967.

PRS 21-011(j) was an americium raffinate storage tank (TA-21-289) located near building TA-21-257. This tank was installed in 1967 and has a 1,600 gal. holding capacity. The surrounding area was not originally paved with asphalt, and spills were reported to have occurred during tanker truck transfer operations. The exact date the tank was taken out of operation is not known.

**Current Regulatory Status:** PRSs 21-011(a, d-g, i, and j) are on the HSWA Permit while PRS 21-011(h) is not on the HSWA Permit. All of these PRSs are under investigation.

**Proposed Remedy:** No remedial action is anticipated to be necessary (addressed by MDA T remedy).

**Future Actions Required:** After structure removal by D&D, conduct characterization sampling as part of Corrective Measures Study/Corrective Measures Implementation (CMS/CMI) process for MDA T to support a recommendation for an integrated NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water and surface water quality.

**References:** *“TA-21 Operable Unit RFI Work Plan for Environmental Restoration,”* May 1991, LA-UR-91-962.

## Potential Release Site (PRS) - 21-011(b)

**Location:** TA-21 Site

**Category:** Subsurface Unit

**Ten-Year Plan Description:** Subsurface Unit

**History:** PRS 21-011(b) was a sump (TA-21-223) that transported waste from DP East to the waste treatment plant TA-21-257. It transports waste from buildings TA-21-152, TA-21-155, and TA-21-209 to the treatment facility via a 6-in. cast iron line. The sump may have discharged to DP Canyon on occasion through a drain pipe before two holding tanks (TA-21-346, PRSs 21-004[b and c]) were installed.

**Current Regulatory Status:** This PRS is on the HSWA Permit and is under investigation.

**Proposed Remedy:** Removal of residual contamination, if any.

**Future Actions Required:** After D&D removes structures/equipment, conduct characterization sampling, remove residual contamination (if any), and conduct confirmatory sampling to support a recommendation of integrated NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water and surface water quality.

**References:** "TA-21 Operable Unit RFI Work Plan for Environmental Restoration," May 1991, LA-UR-91-962.

## Potential Release Site (PRS) - 21-011(k)

**Location:** TA-21 Site

**Category:** Outfall

**Ten-Year Plan Description:** Outfall

**History:** PRS 21-011(k) was an outfall that received effluent from operations at the waste treatment facility, TA-21-257. The outfall routed industrial waste water from the facility through tanks TA-21-112 and TA-21-113 with the discharge located on the south side of DP Canyon. The plant treated liquid wastes from the plutonium purification process. The liquid wastes contained a variety of radioactive and chemical constituents remaining after the plutonium extraction process. Various field investigations from 1983 to 1993 have indicated the presence of uranium, plutonium, thorium, americium, strontium, cesium, and protactinium isotopes. In addition, arsenic, lead, silver, zinc, cadmium, copper, and nickel have been detected above background levels. Interim actions performed in 1996 and 1997 removed approximately 390 cubic yards of material and established storm water control measures.

**Current Regulatory Status:** This PRS is on the HSWA Permit and is under investigation.

**Proposed Remedy:** Removal of residual contamination.

**Future Actions Required:** Remove residual contamination and conduct confirmatory sampling to support a recommendation of NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water and surface water quality.

**References:** *"TA-21 Operable Unit RFI Work Plan for Environmental Restoration,"* May 1991, LA-UR-91-962. *"Phase Report 1C TA-21 Operable Unit RFI, Operable Unit Outfalls Investigation,"* January 1994, LA-UR-94-228. *"Phase Report Addendum 1B and 1C Operable Unit 1106 RCRA Facility Investigation,"* January 1995, LA-UR-94-4360. *"Interim Action Report for Potential Release Site 21-011(k),"* April 1997, LA-UR-96-1609.

## Potential Release Site (PRS) - 21-012(a)

**Location:** TA-21 Site

**Category:** Subsurface Unit

**Ten-Year Plan Description:** Subsurface Unit

**History:** PRS 21-012(a) was originally identified as a dry well inside the steam plant (TA-21-357); however, site visits have verified that there is not a dry well associated with this steam plant. Therefore, it was recommended for NFA in the TA-21 work plan.

**Current Regulatory Status:** This PRS is on the HSWA Permit and was proposed for no further action (NFA). The New Mexico Environmental Department (NMED) has concurred with this recommendation.

**Proposed Remedy:** No action.

**Future Actions Required:** None.

**References:** *"TA-21 Operable Unit RFI Work Plan for Environmental Restoration,"* May 1991, LA-UR-91-962. *"Proposal to Approve: No further Action for 99 Solid Waste management Units (SWMUs) at Los Alamos National Laboratory,"* letter from E. Kelley, Director, Water and Waste Management Division, New Mexico Environment Department, to D. Gurule, Area Manager, Department of Energy Los Alamos Area Office, and J. Browne, Director, Los Alamos National Laboratory, October 1998.

**Potential Release Site (PRS) - 21-012(b)**

**Location:** TA-21 Site

**Category:** Subsurface Unit

**Ten-Year Plan Description:** Subsurface Unit

**History:** PRS 21-012 (b) is a dry well associated with the old steam plant. This building has been removed. The dry well received blow down water from the steam plant.

**Current Regulatory Status:** This PRS is on the HSWA Permit and is under investigation.

**Proposed Remedy:** No remedial action is anticipated to be necessary.

**Future Actions Required:** Conduct characterization sampling and confirmatory sampling (as necessary) to support a recommendation of integrated no further action (NFA). This requires demonstrating that the site does not impact human health, the environment, and ground water and surface water quality.

**References:** *"TA-21 Operable Unit RFI Work Plan for Environmental Restoration,"* May 1991, LA-UR-91-962.

## Potential Release Site (PRS) – 21-013(a)

**Location:** TA-21 Site

**Category:** Surface Unit

**Ten-Year Plan Description:** Surface Unit

**History:** PRS 21-013 (a) is a small disposal area consisting of sand from the drying beds of the sanitary waste treatment plant. The area is inactive. The RFI was started in 1994, but field inspections could not identify the sand disposal area. A grid was applied to the area where the sand had been identified; the area was surveyed with radiological screening instruments and sampled.

**Current Regulatory Status:** This PRS is on the HSWA Permit and was proposed for no further action (NFA) on the basis of human health, alone. The New Mexico Environment Department has not yet approved this recommendation.

**Proposed Remedy:** After sampling and analysis, no further action is anticipated.

**Future Actions Required:** Conduct additional characterization sampling and confirmatory sampling (as necessary) to support a recommendation of integrated NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water and surface water quality.

**References:** "TA-21 Operable Unit RFI Work Plan for Environmental Restoration," May 1991, LA-UR-91-962. "RFI Report for PRSs 21-013(a) and 21-026(a-c)," August 1997, LA-UR-97-589.

## Potential Release Sites (PRSs) – 21-013(c-e)

**Location:** TA-21 Site

**Category:** Surface Units

**Ten-Year Plan Description:** Surface Units

**History:** PRSs 21-013 (c,d,e) are surface disposal areas. PRS 21-013 (d) was referred to as the "cold dump". PRSs 21-013 (c,d) were locations where building debris such as excess concrete, demolished foundations, etc., were disposed. Each of the PRSs was investigated in the 1994 RFI. In 1995, corrective action activities were conducted at each of the sites.

**Current Regulatory Status:** These PRSs are on the HSWA Permit and were proposed for no further action (NFA) on the basis on human health risk, alone. The New Mexico Environment Department (NMED) has not yet concurred with this recommendation.

**Proposed Remedy:** No remedial action is anticipated to be necessary.

**Future Actions Required:** Conduct additional characterization sampling and confirmatory sampling (as necessary) to support a recommendation of integrated NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water and surface water quality.

References: "TA-21 Operable Unit RFI Work Plan for Environmental Restoration," May 1991, LA-UR-91-962. "Phase Report 1B TA-21 Operable Unit RFI, Operable Unit-Wide Surface Soil, Deposition Layer and Filter Building Investigation," January 1994, LA-UR-93-4390. "Phase Report Addendum 1B and 1C Operable Unit 1106," January 1995, LA-UR-4360.

## Potential Release Site (PRS) - 21-014

**Location:** TA-21 Site

**Category:** Material Disposal Unit

**Ten-Year Plan Description:** Material Disposal Unit

**History:** MDA A covers a surface area of 1.8 acres and contains two underground tanks, two pits on the east side, and a large central pit. The area was used between 1945 to 1949 and 1969 to 1977. The area was used for radioactively-contaminated solid waste and D&D debris disposal. MDA A was decommissioned in 1978. Prior to decommissioning, remediation of the site cover was conducted. The surface was stabilized again in 1985 and 1987.

**Current Regulatory Status:** This PRS is on the HSWA Permit and is under investigation.

**Proposed Remedy:** In Situ containment.

**Future Actions Required:** Conduct additional characterization sampling and support the Corrective Measures Study/Corrective Measures Implementation (CMS/CMI) process. The CMS/CMI process includes characterizing migration pathways, geologic and hydrologic conditions, and extent of migration. The CMS/CMI process will evaluate alternatives involving slope stabilization, in situ stabilization, and design and installation of a landfill cap to support a recommendation of integrated NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water and surface water quality.

**References:** "TA-21 Operable Unit RFI Work Plan for Environmental Restoration," May 1991, LA-UR-91-962.

## Potential Release Site (PRS) - 21-015

**Location:** TA-21 Site

**Category:** Material Disposal Unit

**Ten-Year Plan Description:** Material Disposal Unit

**History:** MDA B is a solid waste material disposal area, which operated from 1945 to 1947. The surface area is 6.03 acres, of which the western 2/3 was paved in 1966. The eastern 1/3 has been used for trench cover studies since 1982. The southern portion of the eastern 1/3 of the MDA was used for chemical waste disposal. The western 2/3 was used for disposal of solid materials, and the northern portion of the eastern 1/3 of the site was used for disposal of equipment, vehicles, and other solid waste, etc. The main constituents of concern include radiological wastes such as plutonium and tritium and various hazardous and non-hazardous wastes.

**Current Regulatory Status:** This PRS is on the HSWA Permit and is under investigation.

**Proposed Remedy:** In Situ Containment

**Future Actions Required:** Conduct additional characterization sampling and support the Corrective Measures Study/Corrective Measures Implementation (CMS/CMI) process. The CMS/CMI process includes characterizing migration pathways, geologic and hydrologic conditions, and extent of migration. The CMS/CMI process will evaluate alternatives involving slope stabilization, in situ stabilization, and design and installation of a landfill cap to support a recommendation of integrated NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water and surface water quality.

**References:** "TA-21 Operable Unit RFI Work Plan for Environmental Restoration," May 1991, LA-UR-91-962.

## Potential Release Sites (PRSs) - 21-017(a-c)

**Location:** TA-21 Site

**Category:** Material Disposal Unit

**Ten-Year Plan Description:** Material Disposal Unit

**History:** MDA U consists of two absorption beds and an associated sump. The beds were used for subsurface disposal of liquid radioactive contaminated wastes. The surface area of the absorption beds is approximately 2 acres. Historical records are poor with some records indicating the beds were not built to handle the amount of liquids discharged into the units, resulting in poor performance. There is documentation that waste liquids overflowed the beds, flowing into DP Canyon to the north. Surface stabilization activities occurred in 1990.

**Current Regulatory Status:** These PRSs are on the HSWA Permit and are under investigation.

**Proposed Remedy:** In Situ Containment

**Future Actions Required:** Conduct additional characterization sampling and support the Corrective Measures Study/Corrective Measures Implementation (CMS/CMI) process. The CMS/CMI process includes characterizing migration pathways, geologic and hydrologic conditions, and extent of migration. The CMS/CMI process will evaluate alternatives involving slope stabilization, in situ stabilization, and design and installation of a landfill cap to support a recommendation of integrated NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water and surface water quality.

**References:** "TA-21 Operable Unit RFI Work Plan for Environmental Restoration," May 1991, LA-UR-91-962.

## Potential Release Sites (PRs) - 21-019(a-m)

**Location:** TA-21 Site

**Category:** Surface Unit

**Ten-Year Plan Description:** Surface Unit

**History:** The exhaust from these exhaust stacks were part of a group of stack emission sources for airborne releases from TA-21 operations. Plutonium, uranium, and tritium isotopes were the major constituents, but some isotopes discharged from certain stacks were not known. The area influenced by these stack emissions were sampled as part of a 1992 RFI. The PRs, the associated buildings, and the identified emissions are summarized below:

PRs	Building	Emissions
21-019(a)	TA-21-3	uranium isotopes
21-019(b)	TA-21-4	Plutonium isotopes
21-019(c)	TA-21-146	Unknown
21-019(d)	TA-21-150	Plutonium isotopes
21-019(e)	TA-21-155	Tritium
21-019(f)	TA-21-209	Tritium
21-019(g)	TA-21-257	Plutonium isotopes
21-019(h)	TA-21-313	Plutonium and uranium isotopes
21-019(i)	TA-21-314	Plutonium isotopes
21-019(j)	TA-21-315	Plutonium isotopes
21-019(k)	TA-21-322	Unknown
21-019(l)	TA-21-323	Unknown
21-019(m)	TA-21-324	Plutonium isotopes

**Current Regulatory Status:** These PRs are not on the HSWA Permit and were proposed for no further action (NFA) on the basis on human health risk, alone. NFA concurrence has been received from the Department of Energy (DOE).

**Proposed Remedy:** No remedial action is anticipated to be necessary.

**Future Actions Required:** These PRs are consolidated with PRS 21-021.

**References:** "TA-21 Operable Unit RFI Work Plan for Environmental Restoration," May 1991, LA-UR-91-062. "Phase Report 1B TA-21 Operable Unit RFI Operable Unit Wide Surface Soil, Deposition Layer and Filter Building Investigation," January 1994, LA-UR-93-4390. "Phase Report Addendum 1B and 1C Operable Unit 1106," January 1995, LA-UR-4360. "Concurrence in No further Action Recommendations," memo from T. Taylor, Program Manager Environmental Restoration Program, Department of Energy Los Alamos Area Office, to J. Jansen, Project Manager Environmental Restoration Program, University of California, Los Alamos National Laboratory, November 1995.

## Potential Release Site (PRS) - 21-020(a)

**Location:** TA-21 Site

**Category:** Surface Unit

**Ten-Year Plan Description:** Surface Unit

**History:** PRS 21-020(a) was a filter house (TA-21-12) that served DP West. Exhaust from this unit was part of the group of stack emission sources for airborne releases from TA-21 operations. Plutonium isotopes were discharged from this filter house. TA-21-12 was decommissioned in 1973.

**Current Regulatory Status:** This PRS is not on the HSWA Permit and the air emission portion of it was proposed for no further action (NFA) on the basis on human health risk, alone. NFA concurrence has been received from the Department of Energy (DOE).

**Proposed Remedy:** No remedial action is anticipated to be necessary.

**Future Actions Required:** Conduct characterization sampling and confirmatory sampling (as necessary) within the footprint of the building to support a recommendation of integrated NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water and surface water quality.

**References:** "TA-21 Operable Unit RFI Work Plan for Environmental Restoration," May 1991, LA-UR-91-962. "Phase Report 1B TA-21 Operable Unit RFI Operable Unit Wide Surface Soil, Deposition Layer and Filter Building Investigation," January 1994, LA-UR-93-4390. "Phase Report Addendum 1B and 1C Operable Unit 1106," January 1995, LA-UR-4360. "Concurrence in No further Action Recommendations," memo from T. Taylor, Program Manager Environmental Restoration Program, Department of Energy Los Alamos Area Office, to J. Jansen, Project Manager Environmental Restoration Program, University of California, Los Alamos National Laboratory, November 1995.

## Potential Release Site (PRS) - 21-020(b)

**Location:** TA-21 Site

**Category:** Surface Unit

**Ten-Year Plan Description:** Surface Unit

**History:** PRS 21-020(b) was a filter house (TA-21-153) that served DP East. Exhaust from this unit was part of the group of stack emission sources for airborne releases from TA-21 operations. Actinium and tritium isotopes were discharged from this filter house. TA-21-153 was decommissioned in 1978.

**Current Regulatory Status:** This PRS is not on the HSWA Permit and the air emission portion of it was recommended for no further action (NFA) on the basis on human health risk, alone. NFA concurrence has been received from the Department of Energy (DOE).

**Proposed Remedy:** No remedial action is anticipated to be necessary.

**Future Actions Required:** Conduct additional characterization sampling and confirmatory sampling (as necessary) to support a recommendation of integrated NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water and surface water quality.

**References:** *"TA-21 Operable Unit RFI Work Plan for Environmental Restoration,"* May 1991, LA-UR-91-962. *"Phase Report 1B TA-21 Operable Unit RFI Operable Unit Wide Surface Soil, Deposition Layer and Filter Building Investigation,"* January 1994, LA-UR-93-4390. *"Phase Report Addendum 1B and 1C Operable Unit 1106,"* January 1995, LA-UR-4360. *"Concurrence in No further Action Recommendations,"* memo from T. Taylor, Program Manager Environmental Restoration Program, Department of Energy Los Alamos Area Office, to J. Jansen, Project Manager Environmental Restoration Program, University of California, Los Alamos National Laboratory, November 1995.

## Potential Release Site (PRS) - 21-021

**Location:** TA-21 Site

**Category:** Surface Unit

**Ten-Year Plan Description:** Surface Unit

**History:** PRS 21-021 consists of all air stack releases and particulates of plutonium, strontium, and possible chemical constituents at TA-21, which is a nominal 300,000 square meters. Stack emissions PRSs 21-019(a-m) and 21-020(a and b) will be deferred to PRS 21-021.

**Current Regulatory Status:** This PRS is on the HSWA Permit and was proposed for no further action (NFA) on the basis on human health risk, alone. The New Mexico Environment Department (NMED) has not yet concurred with this recommendation.

**Proposed Remedy:** No remedial action is anticipated to be necessary.

**Future Actions Required:** Conduct site-wide characterization and baseline sampling and confirmatory sampling (as necessary) to support a recommendation of integrated NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water and surface water quality.

**References:** *"TA-21 Operable Unit RFI Work Plan for Environmental Restoration,"* May 1991, LA-UR-91-962. *"Phase Report 1B TA-21 Operable Unit RFI Operable Unit Wide Surface Soil, Deposition Layer and Filter Building Investigation,"* January 1994, LA-UR-93-4390. *"Phase Report Addendum 1B and 1C Operable Unit 1106,"* January 1995, LA-UR-4360.

## Potential Release Site (PRS) - 21-022(a)

**Location:** TA-21 Site

**Category:** Subsurface Unit

**Ten-Year Plan Description:** Subsurface Unit

**History:** This sump was connected to the floor drain of the plutonium storage vault in building TA-21-21. The sump was constructed in 1946, but it is unknown when its operation stopped.

**Current Regulatory Status:** This PRS is on the HSWA Permit and is under investigation.

**Proposed Remedy:** Removal of structures and residual contamination, if any.

**Future Actions Required:** Conduct additional characterization sampling, remove related structures/equipment and residual contamination (if any), and conduct confirmatory sampling to support a recommendation of integrated no further action NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water or surface water quality.

**References:** "TA-21 Operable Unit RFI Work Plan for Environmental Restoration," May 1991, LA-UR-91-962.

## Potential Release Sites (PRSs) - 21-022(b-e) and (g)

**Location:** TA-21 Site

**Category:** Subsurface Unit

**Ten-Year Plan Description:** Subsurface Units

**History:** These five PRSs are associated with sumps that were constructed on the north side of buildings TA-21-2, 3, 4, 5, and 150. These sumps received raw acid waste prior to the start-up of MDA T and subsequent waste disposal facilities. The sumps were removed in 1979 and 1980. After removal of soil to a depth of 15 ft, approximately 48,000 pCi/g of total activity remained. No information related to hazardous constituents is available. In addition, this aggregate includes the disposal lines that connected the sumps to disposal operations.

**Current Regulatory Status:** These PRSs are on the HSWA Permit and are under investigation.

**Proposed Remedy:** Removal of structures and residual contamination, if any.

**Future Actions Required:** Conduct additional characterization sampling, remove structures/equipment (in coordination with D&D) and residual contamination (if any), and conduct confirmatory sampling to support a recommendation of integrated no further action NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water or surface water quality.

**References:** "TA-21 Operable Unit RFI Work Plan for Environmental Restoration," May 1991, LA-UR-91-962.

## Potential Release Site (PRS) - 21-022(f)

**Location:** TA-21 Site

**Category:** Subsurface Unit

**Ten-Year Plan Description:** Subsurface Unit

**History:** PRS 21-022 (f) was part of an acid line system running from Building TA-21-152 to MDA U.

**Current Regulatory Status:** This PRS is on the HSWA Permit and is under investigation.

**Proposed Remedy:** Removal of structures and residual contamination, if any.

**Future Actions Required:** Conduct additional characterization sampling, remove structures/equipment (in coordination with D&D) and residual contamination, and conduct confirmatory sampling to support a recommendation of integrated no further action NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water or surface water quality.

**References:** "TA-21 Operable Unit RFI Work Plan for Environmental Restoration," May 1991, LA-UR-91-962.

## Potential Release Sites (PRSs) - 21-022(h-j)

**Location:** TA-21 Site

**Category:** Subsurface Unit

**Ten-Year Plan Description:** Subsurface Units

**History:** These three PRSs are sumps that were associated with equipment rooms in the south ends of buildings TA-21-2, 3, and 4. The PRSs 21-022(h and i) sumps were removed previously.

**Current Regulatory Status:** These PRSs are on the HSWA Permit and are under investigation.

**Proposed Remedy:** Removal of structures and residual contamination, if any.

**Future Actions Required:** Conduct additional characterization sampling, remove structures/equipment (in coordination with D&D) and residual contamination, and conduct confirmatory sampling to support a recommendation of integrated no further action NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water or surface water quality.

**References:** "TA-21 Operable Unit RFI Work Plan for Environmental Restoration," May 1991, LA-UR-91-962.

## Potential Release Sites (PRSs) - 21-023(a, b, d)

**Location:** TA-21 Site

**Category:** Subsurface Units

**Ten-Year Plan Description:** Subsurface Units

**History:** These PRSs are decommissioned septic tanks under the footprint of buildings to be decommissioned by D&D.

**Current Regulatory Status:** These PRSs are on the HSWA Permit and are under investigation.

**Proposed Remedy:** No remedial action is anticipated to be necessary.

**Future Actions Required:** Conduct additional characterization sampling and confirmatory sampling (as necessary) to support a recommendation of integrated no further action NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water or surface water quality.

**References:** *"TA-21 Operable Unit RFI Work Plan for Environmental Restoration,"* May 1991, LA-UR-91-962.

## Potential Release Site (PRS) - 21-024(a)

**Location:** TA-21 Site

**Category:** Outfall

**Ten-Year Plan Description:** Outfall

**History:** PRS 21-024(a) was a septic system that routed sewage from building TA-21-9, the old steam plant, through septic tank TA-21-53 to the surface near the edge of Los Alamos Canyon. The concrete septic tank was abandoned in place in 1966. Investigations in 1992 indicated the presence of several constituents (strontium-90, total uranium, calcium, cadmium, copper, chromium, iron, lead, nickel, and zinc) above UTLs for background, but below SALs in the outfall drainage channel. Investigations in 1993 (borehole down gradient) confirmed the absence of contamination associated with the septic tank.

**Current Regulatory Status:** This PRS is on the HSWA Permit and is under investigation.

**Proposed Remedy:** Removal of structures and residual contamination, if any.

**Future Actions Required:** Conduct additional characterization sampling, remove structures/equipment and residual contamination (if any), and conduct confirmatory sampling to support a recommendation of integrated no further action NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water or surface water quality.

**References:** "TA-21 Operable Unit RFI Work Plan for Environmental Restoration," May 1991, LA-UR-91-962. "Phase Report 1C TA-21 Operable Unit RFI, Operable Unit Outfalls Investigation," January 1994, LA-UR-94-228. "Phase Report Addendum 1B and 1C Operable Unit 1106," January 1995, LA-UR-4360.

## Potential Release Site (PRS) - 21-024(b)

**Location:** TA-21 Site

**Category:** Outfall

**Ten-Year Plan Description:** Outfall

**History:** PRS 21-024(b) was a septic system that routed sewage from building TA-21-17 through a concrete septic tank, TA-21-55, to a surface discharge point south of building TA-21-5. The outfall consists of a cast iron pipe that discharges to the surface near the edge of Los Alamos Canyon. Reconnaissance sampling in 1988 and investigations in 1992 indicated amounts of americium-241, plutonium-239, tritium, and total uranium that exceeded background levels. Plutonium concentrations exceeded the SAL in the outfall and were detected above the SAL in a borehole drilled next to tank TA-21-55. Selenium, arsenic, chromium, nickel, and zinc were found to be above UTLs but below SALs. Low levels of oil and grease were also reported.

**Current Regulatory Status:** This PRS is on the HSWA Permit and is under investigation.

**Proposed Remedy:** Removal of structures and residual contamination, if any.

**Future Actions Required:** Conduct additional characterization sampling, remove structures/equipment and residual contamination (if any), and conduct confirmatory sampling to support a recommendation of integrated no further action NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water or surface water quality.

**References:** "TA-21 Operable Unit RFI Work Plan for Environmental Restoration," May 1991, LA-UR-91-962. "Phase Report 1C TA-21 Operable Unit RFI Operable Unit Outfalls Investigation," January 1994, LA-UR-94-228. "Phase Report Addendum 1B and 1C Operable Unit 1106," January 1995, LA-UR-4360.

## Potential Release Site (PRS) - 21-024(c)

**Location:** TA-21 Site

**Category:** Outfall

**Ten-Year Plan Description:** Outfall

**History:** PRS 21-024(c) was a septic system that routed sewage from former building TA-21-54 and existing building TA-21-61 through a concrete septic tank, TA-21-56, to a surface discharge on the edge of Los Alamos Canyon. Reconnaissance sampling in 1988 and RFI sampling occurred in 1992 and 1993.

**Current Regulatory Status:** This PRS is on the HSWA Permit and is under investigation.

**Proposed Remedy:** Removal of structures and residual contamination, if any.

**Future Actions Required:** Conduct additional characterization sampling, remove structures/equipment and residual contamination (if any), and conduct confirmatory sampling to support a recommendation of integrated no further action NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water or surface water quality.

**References:** "TA-21 Operable Unit RFI Work Plan for Environmental Restoration," May 1991, LA-UR-91-962. "Phase Report 1C TA-21 Operable Unit RFI Operable Unit Outfalls Investigation," January 1994, LA-UR-94-228. "Phase Report Addendum 1B and 1C Operable Unit 1106," January 1995, LA-UR-4360.

## Potential Release Site (PRS) - 21-024(d)

**Location:** TA-21 Site

**Category:** Outfall

**Ten-Year Plan Description:** Outfall

**History:** PRS 21-024(d) was a septic system that routed sewage from former building TA-21-1 through a concrete septic tank, TA-21-106, to a surface discharge on the edge of Los Alamos Canyon. Reconnaissance sampling in 1988 and investigations in 1992 indicated mercury, silver, copper, lead, and zinc levels that exceeded background. Americium-241 and tritium were found above background levels, and the plutonium-239 concentration exceeded the SAL in both the surface drainage samples and the septic tank borehole. Low levels of organic analytes (oil and grease) were also detected. The contents of the tank were removed during VCA activities in 1995, and the tank was abandoned in place.

**Current Regulatory Status:** This PRS is on the HSWA Permit and was proposed for no further action (NFA) on the basis on human health risk, alone. The New Mexico Environment Department (NMED) has not yet concurred with this recommendation.

**Proposed Remedy:** Removal of structures and residual contamination, if any.

**Future Actions Required:** Conduct additional characterization sampling, remove structures/equipment and residual contamination (if any), and conduct confirmatory sampling to support a recommendation of integrated no further action NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water or surface water quality.

**References:** "TA-21 Operable Unit RFI Work Plan for Environmental Restoration," May 1991, LA-UR-91-962. "Phase Report 1C TA-21 Operable Unit RFI Operable Unit Outfalls Investigation," January 1994, LA-UR-94-228. "Phase Report Addendum 1B and 1C Operable Unit 1106," January 1995, LA-UR-4360. "Voluntary Corrective Action Completion Report for PRS 21-024(d) TA-21 Septic Tank," February 1996, LA-UR-96-258.

## Potential Release Site (PRS) - 21-024(e)

**Location:** TA-21 Site

**Category:** Outfall

**Ten-Year Plan Description:** Outfall

**History:** PRS 21-024(e) was a septic system that routed sewage from former building TA-21-20 through a 1,000 gal. concrete septic tank, TA-21-123, to a surface discharge on the edge of Los Alamos Canyon. Reconnaissance sampling in 1988 and investigations in 1992 indicated cadmium, lead, selenium, and zinc levels that exceeded background. Americium-241 and tritium were also found above background, and the plutonium-239 concentration exceeded the SAL. The contents of the tank were removed during VCA activities in 1995, and the tank was abandoned in place.

**Current Regulatory Status:** This PRS is on the HSWA Permit and was proposed for no further action (NFA) on the basis on human health risk, alone. The New Mexico Environment Department (NMED) has not yet concurred with this recommendation.

**Proposed Remedy:** Removal of structures and residual contamination, if any.

**Future Actions Required:** Conduct additional characterization sampling, remove structures/equipment and residual contamination (if any), and conduct confirmatory sampling to support a recommendation of integrated no further action NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water or surface water quality.

**References:** "TA-21 Operable Unit RFI Work Plan for Environmental Restoration," May 1991, LA-UR-91-962. "Phase Report 1C TA-21 Operable Unit RFI Operable Unit Outfalls Investigation," January 1994, LA-UR-94-228. "Phase Report Addendum 1B and 1C Operable Unit 1106," January 1995, LA-UR-4360. "Voluntary Corrective Action Completion Report for PRS 21-024(d) TA-21 Septic Tank," February 1996, LA-UR-96-258.

## Potential Release Site (PRS) - 21-024(f)

**Location:** TA-21 Site

**Category:** Outfall

**Ten-Year Plan Description:** Outfall

**History:** PRS 21-024(f) received sewage from building TA-21-45, (the safety training building) through septic tank TA-21-124. The liquid then discharged into a shallow pit approximately 3 ft x 3 ft x 2 ft on the south edge of DP Mesa. Reconnaissance sampling in 1988 and investigations in 1992 indicated the presence of several constituents (cesium-137, tritium, plutonium-239, americium-241, strontium-90, mercury, and cadmium) above background levels but below SALs in the outfall drainage channel. Investigations in 1992 and 1993 (boreholes at septic tank and shallow pit) showed concentrations for radionuclides and inorganic analytes below UTLs. No organic analytes were detected.

**Current Regulatory Status:** This PRS is on the HSWA Permit and was proposed for no further action (NFA) on the basis on human health risk, alone. The New Mexico Environment Department (NMED) has not yet concurred with this recommendation.

**Proposed Remedy:** Removal of structures and residual contamination, if any.

**Future Actions Required:** Conduct additional characterization sampling, remove structures/equipment and residual contamination (if any), and conduct confirmatory sampling to support a recommendation of integrated no further action NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water or surface water quality.

**References:** "TA-21 Operable Unit RFI Work Plan for Environmental Restoration," May 1991, LA-UR-91-962. "Phase Report 1C TA-21 Operable Unit RFI, Operable Unit Outfalls Investigation," January 1994, LA-UR-94-228. "Phase Report Addendum 1B and 1C Operable Unit 1106," January 1995, LA-UR-4360.

## Potential Release Site (PRS) - 21-024(g)

**Location:** TA-21 Site

**Category:** Outfall

**Ten-Year Plan Description:** Outfall

**History:** PRS 21-024(g) received sanitary sewage from buildings TA-21-71, (warehouse) and TA-21-31 (electronics shop) through concrete septic tank TA-21-125. The liquid then discharged to the surface on the south edge of DP Mesa. The septic tank was abandoned in place in the early 1960s. Reconnaissance sampling in 1988 and investigations in 1992 indicated the presence of several constituents (tritium, americium-241, strontium-90, total uranium, mercury, copper, lead, zinc selenium, and cadmium) above background levels at the surface discharge area. Plutonium-239 was detected above the SAL. Tetrachloroethane and oil and grease were reported above their detection limits. Investigations in 1993 (at a borehole down gradient from the septic tank) showed concentrations of radionuclides below SALs and concentrations of inorganic analytes below UTLs. No organic analytes were detected.

**Current Regulatory Status:** This PRS is on the HSWA Permit and was proposed for no further action (NFA) on the basis on human health risk, alone. The New Mexico Environment Department (NMED) has not yet concurred with this recommendation.

**Proposed Remedy:** Removal of structures and residual contamination, if any.

**Future Actions Required:** Conduct additional characterization sampling, remove structures/equipment and residual contamination (if any), and conduct confirmatory sampling to support a recommendation of integrated no further action NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water or surface water quality.

**References:** *"TA-21 Operable Unit RFI Work Plan for Environmental Restoration,"* May 1991, LA-UR-91-962. *"Phase Report 1C TA-21 Operable Unit RFI, Operable Unit Outfalls Investigation,"* January 1994, LA-UR-94-228. *"Phase Report Addendum 1B and 1C Operable Unit 1106,"* January 1995, LA-UR-4360.

## Potential Release Site (PRS) - 21-024(h)

**Location:** TA-21 Site

**Category:** Outfall

**Ten-Year Plan Description:** Outfall

**History:** This PRS was a septic system that routed sewage from building TA-21-155 through a septic tank to the surface. The outfall is very small and was at or near the mesa edge. The RFI was conducted in 1992. In 1995 a VCA was conducted at the site by removing all material from the tank and filling with inert material. The outfall was surveyed for radioactivity, but none was detected at levels greater than human health concerns.

**Current Regulatory Status:** This PRS is on the HSWA Permit and was proposed for no further action (NFA) on the basis on human health risk, alone. The New Mexico Environment Department (NMED) has not yet concurred with this recommendation.

**Proposed Remedy:** Removal of structures and residual contamination, if any.

**Future Actions Required:** Conduct additional characterization sampling, remove structures/equipment and residual contamination (if any), and conduct confirmatory sampling to support a recommendation of integrated no further action (NFA). This requires demonstrating that the site does not impact human health, the environment, and ground water and surface water quality.

**References:** *"TA-21 Operable Unit RFI Work Plan for Environmental Restoration,"* May 1991, LA-UR-91-962. *"Phase Report 1C TA-21 Operable Unit RFI, Operable Unit Outfalls Investigation,"* January 1994, LA-UR-94-228. *"Phase Report Addendum 1B and 1C Operable Unit 1106,"* January 1995, LA-UR-4360.

## Potential Release Site (PRS) - 21-024(i)

**Location:** TA-21 Site

**Category:** Outfall

**Ten-Year Plan Description:** Outfall

**History:** This PRS was a septic system that routed sewage from building TA-21-152 through a septic tank to the surface. The outfall was at or near the mesa edge. The RFI began in 1992. A RFI was submitted to the EPA. NMED has commented on the report, but their comments have not been resolved. In 1997 an additional phase of the RFI began. After assessing the additional data, it was clear that a source term removal was appropriate as an interim measure in the mesa top portion of the PRS. In 1998 an interim action removed contaminated soil from the mesa top.

**Current Regulatory Status:** This PRS is on the HSWA Permit and is under investigation.

**Proposed Remedy:** Removal of structures and residual contamination, if any.

**Future Actions Required:** Conduct additional characterization sampling, remove structures/equipment and residual contamination (if any), and conduct confirmatory sampling to support a recommendation of integrated no further action (NFA). This requires demonstrating that the site does not impact human health, the environment, and ground water and surface water quality.

**References:** *"TA-21 Operable Unit RFI Work Plan for Environmental Restoration,"* May 1991, LA-UR-91-962. *"Phase Report 1C TA-21 Operable Unit RFI, Operable Unit Outfalls Investigation,"* January 1994, LA-UR-94-228. *"Phase Report Addendum 1B and 1C Operable Unit 1106,"* January 1995, LA-UR-4360.

## Potential Release Site (PRS) - 21-024(j)

**Location:** TA-21 Site

**Category:** Outfall

**Ten-Year Plan Description:** Outfall

**History:** PRS 21-024(j) consists of septic tank TA-21-194 and associated drain lines. The septic tank received sewage from building TA-21-155, which was a warehouse/laboratory. The reinforced concrete tank is located off the southwest corner of TA-21-155 near the south edge of the perimeter road. In 1966 the septic tank was abandoned after it was pumped out and filled with earth. Based on the results of a 1992 and 1993 Phase I RFI, no contaminants of concern were identified.

**Current Regulatory Status:** This PRS is on the HSWA Permit and under investigation.

**Proposed Remedy:** Removal of structures and residual contamination, if any.

**Future Actions Required:** Conduct additional characterization sampling, remove structures/equipment and residual contamination (if any), and conduct confirmatory sampling to support a recommendation of integrated no further action (NFA). This requires demonstrating that the site does not impact human health, the environment, and ground water and surface water quality.

**References:** "TA-21 Operable Unit RFI Work Plan for Environmental Restoration," May 1991, LA-UR-91-962. "Phase Report 1C TA-21 Operable Unit RFI, Operable Unit Outfalls Investigation," January 1994, LA-UR-94-228. "Phase Report Addendum 1B and 1C Operable Unit 1106," January 1995, LA-UR-4360.

## Potential Release Site (PRS) - 21-024(k)

**Location:** TA-21 Site

**Category:** Subsurface Unit

**Ten-Year Plan Description:** Subsurface Unit

**History:** PRS 21-024(k) consists of septic tank TA-21-219, associated drain lines, and a leach field. The septic tank received sanitary sewage from building TA-21-209 (high temperature chemistry building). The overflow from the septic tank went to a leach field that was 30 ft x 20 ft x 8 ft 6 in. In 1966 the septic tank was abandoned after being pumped out and filled with earth. Based on the results of a 1992 and 1993 Phase I RFI, no contaminants of concern were identified.

**Current Regulatory Status:** This PRS is on the HSWA Permit and is under investigation.

**Proposed Remedy:** Removal of structures and residual contamination, if any.

**Future Actions Required:** Conduct additional characterization sampling, remove structures/equipment and residual contamination (if any), and conduct confirmatory sampling to support a recommendation of integrated no further action (NFA). This requires demonstrating that the site does not impact human health, the environment, and ground water and surface water quality.

**References:** "TA-21 Operable Unit RFI Work Plan for Environmental Restoration," May 1991, LA-UR-91-962. "Phase Report 1C TA-21 Operable Unit RFI, Operable Unit Outfalls Investigation," January 1994, LA-UR-94-228. "Phase Report Addendum 1B and 1C Operable Unit 1106," January 1995, LA-UR-4360.

**Potential Release Site (PRS) - 21-024(I)**

**Location:** TA-21 Site

**Category:** Outfall

**Ten-Year Plan Description:** Outfall

**History:** The location of this PRS is believed to coincide with the area addressed by PRS 21-004(a). Any investigation an/or remediation in this area will be addressed by the activities for PRS 21-004(a).

**Current Regulatory Status:** This PRS is on the HSWA Permit and was proposed for no further action (NFA) on the basis on human health risk, alone. The New Mexico Environment Department (NMED) has not yet concurred with this recommendation.

**Proposed Remedy:** No action (addressed by PRS 21-004(a) remedy).

**Future Actions Required:** None.

**References:** *"TA-21 Operable Unit RFI Work Plan for Environmental Restoration,"* May 1991, LA-UR-91-962.

## Potential Release Site (PRS) - 21-024(m)

**Location:** TA-21 Site

**Category:** Outfall

**Ten-Year Plan Description:** Outfall

**History:** PRS 21-024(m) is a vitrified-clay pipe (VCP) drain line that exits building TA-21-209 (high temperature chemistry building) and leads south towards Los Alamos Canyon. The pipe appears to have been removed during the construction of a storm drain. Based on the results of a 1992 Phase I RFI, no contaminants of concern were identified.

**Current Regulatory Status:** This PRS is on the HSWA Permit and was proposed for no further action (NFA). NFA concurrence has been received from the New Mexico Environment Department (NMED).

**Proposed Remedy:** No action.

**Future Actions Required:** None.

**References:** *"TA-21 Operable Unit RFI Work Plan for Environmental Restoration,"* May 1991, LA-UR-91-962. *"Phase Report 1C TA-21 Operable Unit RFI, Operable Unit Outfalls Investigation,"* January 1994, LA-UR-94-228. *"Phase Report Addendum 1B and 1C Operable Unit 1106,"* January 1995, LA-UR-4360. *"Proposal to Approve: No further Action for 99 Solid Waste management Units (SWMUs) at Los Alamos National Laboratory,"* letter from E. Kelley, Director, Water and Waste Management Division, New Mexico Environment Department, to D. Gurule, Area Manager, Department of Energy Los Alamos Area Office, and J. Browne, Director, Los Alamos National Laboratory, October 1998.

## Potential Release Site (PRS) - 21-024(n)

**Location:** TA-21 Site

**Category:** Outfall

**Ten-Year Plan Description:** Outfall

**History:** PRS 21-024(n) is a drain line that exited building TA-21-155 (warehouse/laboratory) and discharged north into DP Canyon. The drain system consists of CMP exiting a concrete bulkhead and discharging onto a gravel road adjacent to MDA U. The effluent flowed north to a ditch paralleling the road and into DP Canyon. Based on the results of a 1992 Phase I RFI, no contaminants of concern were identified.

**Current Regulatory Status:** This PRS is on the HSWA Permit and is under investigation.

**Proposed Remedy:** Removal of structures and residual contamination, if any.

**Future Actions Required:** Conduct additional characterization sampling, remove structures/equipment and residual contamination (if any), and conduct confirmatory sampling to support a recommendation of integrated no further action (NFA). This requires demonstrating that the site does not impact human health, the environment, and ground water and surface water quality.

**References:** "TA-21 Operable Unit RFI Work Plan for Environmental Restoration," May 1991, LA-UR-91-962. "Phase Report 1C TA-21 Operable Unit RFI, Operable Unit Outfalls Investigation," January 1994, LA-UR-94-228. "Phase Report Addendum 1B and 1C Operable Unit 1106," January 1995, LA-UR-4360.

## Potential Release Site (PRS) - 21-024(o)

**Location:** TA-21 Site

**Category:** Outfall

**Ten-Year Plan Description:** Outfall

**History:** PRS 21-024(o) is a drain line that discharged building TA-21-46 (diesel plant/warehouse) floor drains south into Los Alamos Canyon. The drain line consists of a 4 in. VCP. Based on the results of a 1992 Phase I RFI, no contaminants of concern were identified.

**Current Regulatory Status:** This PRS is on the HSWA Permit and is under investigation.

**Proposed Remedy:** Removal of structures and residual contamination, if any.

**Future Actions Required:** Conduct additional characterization sampling, remove structures/equipment and residual contamination (if any), and conduct confirmatory sampling to support a recommendation of integrated no further action (NFA). This requires demonstrating that the site does not impact human health, the environment, and ground water and surface water quality.

**References:** *"TA-21 Operable Unit RFI Work Plan for Environmental Restoration,"* May 1991, LA-UR-91-962. *"Phase Report 1C TA-21 Operable Unit RFI, Operable Unit Outfalls Investigation,"* January 1994, LA-UR-94-228. *"Phase Report Addendum 1B and 1C Operable Unit 1106,"* January 1995, LA-UR-4360.

## Potential Release Site (PRS) - 21-025(a)

**Location:** TA-21 Site

**Category:** Subsurface Unit

**Ten-Year Plan Description:** Subsurface Unit

**History:** PRS 21-025(a) is an active off-gas system located in building TA-21-155. This is an active system that is monitored under routine operations at the Tritium Systems Test Assembly (TSTA) facility. The airborne release component of this PRS has been deferred to PRSs 21-019(a-m) while the system component of this PRS (within building TA-21-155) has had no environmental releases.

**Current Regulatory Status:** This PRS is not on the HSWA Permit and was proposed for no further action (NFA) on the basis of human health risk. NFA concurrence has been received from the Department of Energy (DOE).

**Proposed Remedy:** No action.

**Future Actions Required:** None.

**References:** *"TA-21 Operable Unit RFI Work Plan for Environmental Restoration,"* May 1991, LA-UR-91-962. *"NFA Permit Modification,"* memo from T. Taylor, Program Manager, Environmental Restoration Program, Department of Energy Los Alamos Area Office, to J. Jansen, Program Manager, Environment Restoration Project, University of California, October 1995.

## Potential Release Site (PRS) - 21-025(b)

**Location:** TA-21 Site

**Category:** Subsurface Unit

**Ten-Year Plan Description:** Subsurface Unit

**History:** PRS 21-025(b) is an active off-gas system located in building TA-21-155. This is an active system that is monitored under routine operations at the Tritium Systems Test Assembly (TSTA) facility. The airborne release component of this PRS has been deferred to PRSs 21-019(a-m) while the system component of this PRS (within building TA-21-155) has had no environmental releases.

**Current Regulatory Status:** This PRS is not on the HSWA Permit and was recommended for no further action (NFA) on the basis of human health risk. NFA concurrence has been received from the Department of Energy (DOE).

**Proposed Remedy:** No action.

**Future Actions Required:** None.

**References:** "TA-21 Operable Unit RFI Work Plan for Environmental Restoration," May 1991, LA-UR-91-962. "NFA Permit Modification," memo from T. Taylor, Program Manager, Environmental Restoration Program, Department of Energy Los Alamos Area Office, to J. Jansen, Program Manager, Environment Restoration Project, University of California, October 1995.

## Potential Release Site (PRS) - 21-026(d)

**Location:** TA-21 Site

**Category:** Outfall

**Ten-Year Plan Description:** Outfall

**History:** This PRS discharged treated effluent through a drain line from the TA-21 sewage treatment plant. The outfall is at or near the mesa edge into DP Canyon. The RFI samples were collected in 1992.

**Current Regulatory Status:** This PRS is not on the HSWA Permit and was proposed for no further action (NFA) on the basis on human health risk, alone. The Department of Energy (DOE) has not yet concurred with this recommendation.

**Proposed Remedy:** Removal of residual contamination, if any.

**Future Actions Required:** Conduct additional characterization sampling, remove residual contamination from the outfall (if necessary), and conduct confirmation sampling to support a recommendation of integrated NFA. This requires demonstrating that the site does not impact human health, the environment and ground water or surface water.

**References:** "TA-21 Operable Unit RFI Work Plan for Environmental Restoration," May 1991, LA-UR-91-962.

## Potential Release Sites (PRSs) – 21-026(a-c)

**Location:** TA-21 Site

**Category:** Surface and Subsurface Units

**Ten-Year Plan Description:** Surface Units

**History:** The sewage treatment plant 21-026 (a) treated sanitary waste and non-contact cooling water from TA-21 facilities. Treated effluent was discharged to drying beds (PRS 21-026 (b)). PRS 21-026(c) is a chlorine contact chamber located next to the sewage plant. The RFI was started in 1994 when boreholes were placed under and adjacent to each of these PRSs.

**Current Regulatory Status:** PRSs 21-026(a and b) are on the HSWA Permit while PRS 21-026(c) is not on the HSWA Permit. All of these PRSs were proposed for no further action (NFA) on the basis on human health risk, alone. The New Mexico Environment Department (NMED) and the Department of Energy (DOE) have not yet concurred with these recommendations.

**Proposed Remedy:** Removal of structures

**Future Actions Required:** Removing the sewage treatment plant, sludge drying beds, and dosing chamber, and conduct confirmatory sampling to support a recommendation of integrated NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water and surface water quality.

**References:** "TA-21 Operable Unit RFI Work Plan for Environmental Restoration," May 1991, LA-UR-91-962.  
RFI Report ref

## Potential Release Site (PRS) - 21-027(a)

**Location:** TA-21 Site

**Category:** Surface Unit

**Ten-Year Plan Description:** Outfall

**History:** This PRS is a drainage system that routed storm water runoff from the area around building TA-21-3 through culverts to Los Alamos Canyon. The outfall is at or near the mesa edge. The RFI began in 1992 and identified chromium and plutonium at levels of concern.

**Current Regulatory Status:** This PRS is on the HSWA Permit and is under investigation.

**Proposed Remedy:** Removal of structures and residual contamination, if any.

**Future Actions Required:** Conduct additional characterization sampling, remove structures and residual contamination (if necessary), and conduct confirmation sampling to support a recommendation of integrated no further action (NFA). This requires demonstrating that the site does not impact human health, the environment, and ground water and surface water quality.

**References:** "TA-21 Operable Unit RFI Work Plan for Environmental Restoration," May 1991, LA-UR-91-962.

## Potential Release Site (PRS) - 21-027(b)

**Location:** TA-21 Site

**Category:** Outfall

**Ten-Year Plan Description:** Outfall

**History:** PRS 21-027(b) consists of two outfalls in the same drainage channel. The outfalls were NPDES-permitted and served cooling towers TA-21-166, 167, and 152. Based on the results of a 1992 Phase I RFI, no contaminants of concern were identified.

**Current Regulatory Status:** This PRS is on the HSWA Permit and was proposed for no further action (NFA). NFA concurrence has been received from the New Mexico Environment Department (NMED).

**Proposed Remedy:** No action.

**Future Actions Required:** None.

**References:** *"TA-21 Operable Unit RFI Work Plan for Environmental Restoration,"* May 1991, LA-UR-91-962. *"Request for Permit Modification Units Proposed for NFA,"* March 1995, LA-UR-95-767. *"Phase Report 1C TA-21 Operable Unit RFI, Operable Unit Outfalls Investigation,"* January 1994, LA-UR-94-228. *"Phase Report Addendum 1B and 1C Operable Unit 1106,"* January 1995, LA-UR-4360. *"Proposal to Approve: No further Action for 99 Solid Waste management Units (SWMUs) at Los Alamos National Laboratory,"* letter from E. Kelley, Director, Water and Waste Management Division, New Mexico Environment Department, to D. Gurule, Area Manager, Department of Energy Los Alamos Area Office, and J. Browne, Director, Los Alamos National Laboratory, October 1998.

## Potential Release Site (PRS) - 21-027(c)

**Location:** TA-21 Site

**Category:** Outfall

**Ten-Year Plan Description:** Outfall

**History:** This PRS was a drainage line that routed discharge from floor drains in building TA-21-6 to the surface. The outfall was at or near the mesa edge. This PRS was investigated in 1992, and little or no contamination was identified.

**Current Regulatory Status:** This PRS is on the HSWA Permit and was proposed for no further action (NFA) on the basis on human health risk, alone. The New Mexico Environment Department (NMED) has not yet concurred with this recommendation.

**Proposed Remedy:** Removal of structures and residual contamination, if any.

**Future Actions Required:** Conduct additional characterization sampling, remove remaining underground structures and residual contamination (if any), and conduct confirmatory sampling to support a recommendation of integrated NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water and surface water quality.

**References:** "TA-21 Operable Unit RFI Work Plan for Environmental Restoration," May 1991, LA-UR-91-962.

## Potential Release Sites (PRSs) - 21-028(b-e)

**Location:** TA-21 Site

**Category:** Surface Units

**Ten-Year Plan Description:** Surface Units

**History:** PRSs TA-21-028 (b, c, d, e) are storage areas that may (or may have) contain both hazardous waste and mixed waste. The individual areas are located as follows:

- 21-028(b) is located in building TA-21-150 (3 areas)
- 21-028(c) is located adjacent to building TA-21-3 (4 areas)
- 21-028(d) is located in and adjacent to building TA-21-209 (1 area)
- 21-028(e) is located in building TA-21-210 (3 areas)

PRS 21-028(b) was proposed for no further action in the workplan, PRSs 21-028(d) and (e) were investigated, and PRS 21-028(c) no longer exists since building TA-21-3 has been decontaminated and decommissioned.

**Current Regulatory Status:** These PRSs are not on the HSWA Permit. PRSs 21-028(b, d, and e) were proposed for no further action (NFA) on the basis on human health risk, alone. NFA concurrence was received on PRSs 21-028(b and e) from the Department of Energy (DOE). PRS 21-028(c) is under investigation.

**Proposed Remedy:** Aggregated with D&D of associated structures.

**Future Actions Required:** Coordinate confirmatory sampling activities (as necessary) with D&D activities to support a recommendation of integrated NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water and surface water quality.

**References:** "TA-21 Operable Unit RFI Work Plan for Environmental Restoration," May 1991, LA-UR-91-962. "NFA Permit Modification," memo from T. Taylor, Program Manager, Environmental Restoration Program, Department of Energy Los Alamos Area Office, to J. Jansen, Program Manager, Environment Restoration Project, University of California, October 1995.

**Potential Release Sites (PRSs) - C-21-001, C-21-003, C-21-004, C-21-006, C-21-008, C-21-014, and C-21-024 through C-21-026**

**Location:** TA-21 Site

**Category:** Surface Units

**Ten-year Plan Description:** Surface Units

**History:** These PRSs are associated with one-time (i.e. not a waste handling system or systemic release) releases and former structure locations. RFI activities will be coordinated with decontamination and decommission (D&D) activities. These PRSs are summarized as follows:

PRS	Description	Associated Structure
C-21-001	Hydrogen fluorine spill: no documentation of cleanup.	TA-21-17
C-21-003	Possible releases to paved area; area has been repaved.	TA-21-2 TA-21-3
C-21-004	Possible radionuclide and hazardous constituent release to driveways; soil was removed and area was repaved.	TA-21-2
C-21-006	Americium-241 release from leaking trailer; contaminated area paved over. No documentation of cleanup.	TA-21-2
C-21-008	Radioactive material release from a process exhaust line; soil was removed after the release.	TA-21-4
C-21-014	Location of active and operational warehouse.	TA-21-286
C-21-024	Former location of a warehouse; structure demolished and disposed.	TA-21-22
C-21-025	Former location of radioactively-contaminated corridor; structure was demolished and disposed.	TA-21-19
C-21-026	Former location of administrative building with shops; structure was demolished and disposed.	TA-21-51

**Current Regulatory Status:** These PRSs are not on the HSWA Permit. PRSs C-21-003, C-21-004, C-21-008, C-21-014, C-21-024 through C-21-026 were proposed for no further action (NFA). NFA concurrence was received from the Department of Energy (DOE). PRSs C-21-001 and C-21-006 are under investigation.

**Proposed Remedy:** Aggregated with D&D of associated structures.

**Future Actions Required:** Coordinate confirmation sampling activities with D&D activities to support a recommendation of integrated NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water and surface water quality.

**References:** *"TA-21 Operable Unit RFI Work Plan for Environmental Restoration,"* May 1991, LA-UR-91-962. *"NFA Permit Modification,"* memo from T. Taylor, Program Manager, Environmental Restoration Program, Department of Energy Los Alamos Area Office, to J. Jansen, Program Manager, Environment Restoration Project, University of California, October 1995.

## Potential Release Sites (PRSs) - C-21-028 through C-21-032

**Location:** TA-21 Site

**Category:** Surface and Subsurface Units

**Ten-year Plan Description:** Surface and Subsurface Units

**History:** These PRSs are associated former structures at TA-21. RFI activities will be coordinated with decontamination and decommission (D&D) activities. These PRSs are summarized as follows:

PRS	Description	Associated Structure
C-21-028	A 12,788-gallon above ground fuel tank that was removed.	TA-21-47
C-21-029	A 3,000-gallon above ground steel oil tank that was removed.	TA-21-60
C-21-030	A 320-gallon propane tank that was removed.	TA-21-64
C-21-031	A 5,200-gallon half-buried stainless steel tank that was removed.	TA-21-325
C-21-032	A standby diesel generator served by a 300-gallon day tank and a 1,000-gallon underground tank, which remains in place.	TA-21-152

**Current Regulatory Status:** These PRSs are not on the HSWA Permit. PRSs C-21-028 and C-21-029 were proposed for no further action (NFA). NFA concurrence was received from the Department of Energy (DOE). PRSs C-21-030 through C-21-032 are under investigation.

**Proposed Remedy:** Aggregated with D&D of associated structures.

**Future Actions Required:** Coordinate confirmation sampling activities with D&D activities to support a recommendation of integrated NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water and surface water quality.

**References:** "TA-21 Operable Unit RFI Work Plan for Environmental Restoration," May 1991, LA-UR-91-962. "NFA Permit Modification," memo from T. Taylor, Program Manager, Environmental Restoration Program, Department of Energy Los Alamos Area Office, to J. Jansen, Program Manager, Environment Restoration Project, University of California, October 1995.

**Potential Release Sites (PRSs) - C-21-002, C-21-010, C-21-011, C-21-013, and C-21-016 through C-21-023**

**Location:** TA-21 Site

**Category:** Surface and Subsurface Units

**Ten-Year Plan Description:** Surface and Subsurface Units

**History:** These PRSs are associated with releases and former structure locations. RFI activities will be coordinated with decontamination and decommission (D&D) activities. These PRSs are summarized as follows:

PRS	Description	Associated Structure
C-21-002	Leak of radionuclides from a waste storage tank to the surrounding soil; soil was removed.	TA-21-35
C-21-010	Leak of radionuclides from drums; area was decontaminated.	TA-21-35
C-21-011	Spill of radioactive material resulting from a plugged scrubber on building roof; area was decontaminated.	TA-21-155
C-21-013	Waste storage pit that was never constructed.	TA-21-331
C-21-016 through C-21-021	Storage hutments that were removed in 1954.	TA-21-23 through TA-21-28
C-21-022	Laboratory structure that was removed and disposed.	TA-21-34
C-21-023	Former location of building that was removed and disposed.	TA-21-54

**Current Regulatory Status:** These PRSs are not on the HSWA Permit and were proposed for no further action (NFA). NFA concurrence was received from the Department of Energy (DOE).

**Proposed Remedy:** Aggregated with D&D of associated structures.

**Future Actions Required:** Coordinate confirmatory sampling activities with D&D activities to support a recommendation of integrated NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water and surface water quality.

**References:** "TA-21 Operable Unit RFI Work Plan for Environmental Restoration," May 1991, LA-UR-91-962. "NFA Permit Modification," memo from T. Taylor, Program Manager, Environmental Restoration Program, Department of Energy Los Alamos Area Office, to J. Jansen, Program Manager, Environment Restoration Project, University of California, October 1995.

## Potential Release Sites (PRSs) - C-21-005 and C-21-007

**Location:** TA-21 Site

**Category:** Surface Unit

**Ten-Year Plan Description:** Surface Unit

**History:** PRS C-21-005 was a spill between buildings TA-21-5 and TA-21-257, as a result of a fire in a filter in building 5 in 1959. The resulting contamination was cleaned up. PRS C-21-007 was a spill from a tank vent at TA-21-257. The leak contaminated the building roof, wall, and surrounding area with plutonium, americium, and uranium. This spill was reportedly cleaned up.

**Current Regulatory Status:** These PRSs are not on the HSWA Permit and are under investigation.

**Proposed Remedy:** Aggregated with D&D of associated structure.

**Future Actions Required:** Coordinated confirmatory sampling activities with D&D activities to support a recommendation of integrated no further action (NFA). This requires demonstrating that the site does not impact human health, the environment, and ground water and surface water quality.

**References:** "TA-21 Operable Unit RFI Work Plan for Environmental Restoration," May 1991, LA-UR-91-962.

## Potential Release Site (PRS) - C-21-015

**Location:** TA-21 Site

**Category:** Subsurface Unit

**Ten-Year Plan Description:** Subsurface Unit

**History:** PRS C-21-015 was a structure that has been removed. The building and soil were removed down to tuff. A sump and line have been identified associated with Building TA 21-45 since the TA 21 RFI Workplan was written. This sump and line were installed to support waste stream treatment studies conducted in Building TA-21-33 (PRS 21-009), across the road to the south.

**Current Regulatory Status:** This PRS is not on the HSWA Permit and was proposed for no further action (NFA) in the work plan. NFA concurrence was received from the Department of Energy (DOE).

**Proposed Remedy:** Removal of structures and residual contamination, if any.

**Future Actions Required:** Conduct additional characterization sampling, remove underground structures and residual contamination (if any), and conduct confirmation sampling to support a recommendation for integrated NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water and surface water quality.

**References:** "TA-21 Operable Unit RFI Work Plan for Environmental Restoration," May 1991, LA-UR-91-962. "NFA Permit Modification," memo from T. Taylor, Program Manager, Environmental Restoration Program, Department of Energy Los Alamos Area Office, to J. Jansen, Program Manager, Environment Restoration Project, University of California, October 1995.

## Potential Release Site (PRS) - C-21-027

**Location:** TA-21 Site

**Category:** Surface Unit

**Ten-year Plan Description:** Surface Unit

**History:** PRS C-21-027 is the site of structure TA-21-143, a cooling tower (chilled water recirculator). The cooling tower received water from building TA-21-3, circulated it, and returned it to the building in a closed loop. D&D activities began in 1994 with the removal of the aboveground structures and continued in 1995 with the removal of below ground sections. In 1995, RFI samples were collected from the footprint of the former structure to confirm that D&D activities removed contamination from the site.

**Current Regulatory Status:** This PRS is not on the HSWA Permit and was proposed for no further action (NFA) on the basis on human health risk, alone. The Department of Energy (DOE) has not yet concurred with this recommendation.

**Proposed Remedy:** Aggregated with D&D of associated structure.

**Future Actions Required:** Coordinate confirmatory sampling (as necessary) with D&D activities to support a recommendation of integrated NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water and surface water quality.

**References:** *"TA-21 Operable Unit RFI Work Plan for Environmental Restoration,"* May 1991, LA-UR-91-962. *"Voluntary Corrective Action Completion Report for Potential Release Site C-21-027 TA-21 Cooling Tower,"* Revision 1, February 1996, LA-UR-96-247.

## Potential Release Site (PRS) - C-21-033

**Location:** TA-21 Site

**Category:** Surface Unit

**Ten-Year Plan Description:** Surface Unit

**History:** PRS C-21-033 was a spill that occurred in 1982 when radioactive contaminated cement paste leaked while being pumped from TA-21-257 to shafts at MDA T. The exact spill location is not known.

**Current Regulatory Status:** This PRS is not on the HSWA Permit and is under investigation.

**Proposed Remedy:** Aggregated with D&D of associated structure.

**Future Actions Required:** Coordinated confirmatory sampling activities with D&D activities to support a recommendation of integrated no further action (NFA). This requires demonstrating that the site does not impact human health, the environment, and ground water and surface water quality.

**References:** "TA-21 Operable Unit RFI Work Plan for Environmental Restoration," May 1991, LA-UR-91-962.

**Potential Release Sites (PRSs) - 21-001, 21-016 (a-c), 21-010 (a-h), 21-011(c), 21-028(a), C-21-009, C-21-012, C-21-034, C-21-035, C-21-036, C-21-037**

**Location:** TA-21 Site

**Category:** Various

**Ten-Year Plan Description:** Material Disposal Unit

**History:** MDA T covers approximately 3.5 surface acres and consists of 4 absorption beds for liquid wastes, a waste storage area, and a series of disposal shafts used to dispose of wastes mixed with cement. The site operated from 1945 until 1983. The surface was stabilized in 1987. The surface of the MDA was sampled in 1993, and subsurface sampling was conducted in 1996/1997. Not all records concerning waste disposal are available; however most waste was plutonium waste-processing waste, which may have contained some hazardous constituents.

The remainder of the PRS aggregate is comprised of PRSs associated with decommissioned waste treatment facilities (21-010 [a through h] and C-21-034 through C-21-037) and various storage areas (21-001 and 21-028[a]) and spills on the MDA surface (C-21-009 and C-21-012). The former waste treatment facility was investigated in 1994. MDA T was investigated in 1996 and 1997.

**Current Regulatory Status:** PRSs 21-016(a-c), 21-010(a-h), 21-011(c) are on the HSWA Permit. PRSs 21-001, 21-028(a), C-21-009, C-21-012, C-21-034, C-21-035, C-21-036, and C-21-037 are not on the HSWA Permit. All of these PRSs are under investigation.

**Proposed Remedy:** In Situ containment, if necessary.

**Future Actions Required:** Conduct additional characterization sampling and support the Corrective Measures Study/Corrective Measures Implementation (CMS/CMI) process. Three CMS/CMI process includes characterizing migration pathways, geologic and hydrologic conditions, and extent of migration. The CMS/CMI process will evaluate alternatives involving slope stabilization, in situ stabilization, and design and installation of a landfill cap to support a recommendation of integrated NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water and surface water quality.

**References:** "TA-21 Operable Unit RFI Work Plan for Environmental Restoration," May 1991, LA-UR-91-962.

**Potential Release Sites (PRSs) - 21-018(a and b), 21-013(b and g),  
21-023(c), and 21-027(d)**

**Location:** TA-21 Site

**Category:** Various

**Ten-Year Plan Description:** Material Disposal Unit

**History:** MDA V contains three liquid absorption beds (20 ft x 200 ft x  $\approx$  8 ft) designed to dispose of the outflow from the radioactive laundry facility. These beds were in continuous use from 1945 to 1961. Historic evidence shows the beds were under-designed for the volumes of waste discharged, resulting in overflows into the adjacent drainage and into Los Alamos Canyon.

The RFI was started in 1994. The data from the RFI indicates plutonium is the predominant contaminant in the disposal beds ( $\approx$  5,000 pCi/g). There is also evidence of an area of localized strontium-90 contamination combined with very high levels of inorganic contaminants near the center of Bed #1.

PRS 21-013 (b, g) are surface disposal areas immediately down gradient from the MDA (i.e., where overflows passed). Building debris was pushed over the mesa edge. PRS 21-023(c) and 21-027(d) are outfalls discharging in the drainage immediately west of the MDA.

**Current Regulatory Status:** PRSs 21-018(a and b), 21-013(b), 21-023(c), and 21-027(d) are on the HSWA Permit. PRS 21-013(g) is not on the HSWA Permit. All of these PRSs are under investigation

**Proposed Remedy:** In Situ containment.

**Future Actions Required:** Conduct additional characterization sampling and support the Corrective Measures Study/Corrective Measures Implementation (CMS/CMI) process. Three CMS/CMI process includes characterizing migration pathways, geologic and hydrologic conditions, and extent of migration. The CMS/CMI process will evaluate alternatives involving slope stabilization, in situ stabilization, and design and installation of a landfill cap to support a recommendation of integrated NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water and surface water quality.

**References:** "TA-21 Operable Unit RFI Work Plan for Environmental Restoration," May 1991, LA-UR-91-962.

Potential Release Site (PRS ) - 00-004

**Location:** DP Road Site

**Category:** Surface Unit

**Ten-year Plan Description:** Aboveground Material/Waste

**History:** PRS 00-004 is a container storage area located inside the Sixth Street Warehouses 3 and 4. The area was primarily used to store solvents; however, other chemicals that may have been stored at this site by the Zia Company include asphalt, lubricants, pesticides, and herbicides. The containers and storage areas were regularly inspected. Two spills were documented in the warehouses; one spill consisted of an undocumented quantity of methyl ethyl ketone peroxide, and one consisted of an unspecified crystallized solvent. It is assumed that in both incidences, the areas were washed down with water, which was then discharged to an unlined storm water drainage ditch and outfall leading into Los Alamos Canyon. RFI samples were collected in 1995.

**Current Regulatory Status:** This PRS is not on the HSWA Permit and has been proposed for no further action (NFA) on the basis of human health risk alone. The Department of Energy (DOE) has not yet concurred with this recommendation.

**Proposed Remedy:** Removal of residual contamination, if any.

**Future Actions Required:** Remove residual contamination (as necessary) and conduct confirmatory sampling to support a recommendation for integrated NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water or surface water quality.

**References:** "RFI Work Plan for OU 1071, Environmental Restoration Project," May 1992, LA-UR-92-810; "RFI Report for PRSs 0-004, 0-010(b), 0-030(b), 0-033(b)," May 1996, (LA-UR-96-1749).

## Potential Release Site (PRS ) - 00-010(a)

**Location:** DP Road Site

**Category:** Subsurface Unit

**Ten-Year Description:** Surface/Subsurface Material/Waste

**History:** PRS 0-010(a) is a surface disposal site located on a small mesa southwest of MDA B, along DP Road near TA-21. It was first identified as a SWMU based on preliminary review of aerial photographs taken in the mid 1940s which seemed to indicate a drum storage area and several trenches. Photometric analysis of the evidence indicated that the items thought to be drums were in fact rows of stockpiled supplies, not waste awaiting disposal. In addition, an interview with a former Zia Co. employee who had worked in the area identified the stored material as canisters of roofing asphalt and roofing coal tar pitch. It is believed that the site was used for stockpiling and storage only.

**Current Regulatory Status:** PRS 00-010(a) is not on the HSWA Permit and was proposed for no further action (NFA) on the basis of human health risk alone. NFA concurrence was received from the Department of Energy (DOE).

**Proposed Remedy:** No additional remedial action is anticipated to be required.

**Future Actions Required:** Conduct confirmatory sampling (as necessary) to support a recommendation for integrated NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water or surface water quality.

**References:** "RFI Work Plan for Operable Unit 1071," May 1992, LA-UR-92-810. "NFA Permit Modification," memo from T. Taylor, Program Manager, Environmental Restoration Program, Department of Energy Los Alamos Area Office, to J. Jansen, Program Manager, Environment Restoration Project, University of California, October 1995.

## Potential Release Site (PRS ) - 00-010(b)

**Location:** DP Road Site

**Category:** Subsurface Unit

**Ten-year Plan Description:** Surface/Subsurface Material/Waste

**History:** PRS 00-010(b) was described in the Work Plan as an excavation east of Sixth Street Warehouses 1 through 4 that was based on aerial photographs taken in 1946. It was assumed that if an excavation existed adjacent to a warehouse building, it might have been used for some sort of waste disposal activity. However, upon re-examination of the 1946 photographs, no evidence of a waste disposal pit was apparent. Additionally, no records or data exist suggesting that such an excavation existed or was used for waste disposal purposes. A visual survey of the area also revealed no clues as to the existence of a former excavation. It is likely that this excavation did not exist; therefore, no RFI sampling activities were conducted.

**Current Regulatory Status:** This PRS is not on the HSWA Permit and was proposed for no further action (NFA) based on human health risk alone. NFA concurrence was received from the Department of Energy (DOE).

**Proposed Remedy:** No remedial action is anticipated to be required.

**Future Actions Required:** Conduct characterization sampling (as necessary) to support a recommendation for integrated NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water or surface water quality.

**References:** "RFI Work Plan for OU 1071", Environmental Restoration Project, May 1992, LA-UR-92-810; "RFI Report for PRSs 0-004, 0-010(b), 0-030(b), 0-033(b)," May 1996, (LA-UR-96-1749).

## Potential Release Site (PRS ) - 00-027

**Location:** DP Road Site

**Category:** Surface Unit

**Ten-Year Description:** Surface/Subsurface Material/Waste

**History:** PRS 0-027, DP Road Storage Area, is located at the intersection of Trinity Drive and DP Road, which is the current location of the Knights of Columbus Hall. This site was used as a fuel tank farm beginning in 1946 and was converted to a product drum storage area in mid-1948. The storage capacity of PRS 0-027 was approximately 600 to 700 55-gal. Drums. The drum storage area consisted of six compartments, each approximately 38 ft wide. The compartments were separated by 2-ft high earthen dikes around the northern perimeter, and a concrete berm at the southern perimeter. The floor of each compartment was sloped to the north and covered by 2 in. of gravel. Archival information originally indicated that an iron drainline was present below each compartment. However, an interview with the former site supervisor suggested that none of these drainlines were ever installed.

In 1996, geodetic, geophysical, and soil vapor surveys were conducted at this site. In addition surface and subsurface (boreholes up to 60 ft.) samples were collected from this PRS. Air samples were also collected from the interior of the Knights of Columbus building in the fall of 1997.

Because the soil is believed to contain a mixture of chemicals of partially unknown identity, it is difficult to predict potential toxicological effects of exposure. Therefore, a corrective measures study is intended for this site which will contain the RFI report in entirety.

**Current Regulatory Status:** PRS 00-027 is not on the HSWA Permit and is under investigation.

**Proposed Remedy:** In Situ containment.

**Future Actions Required:** Conduct additional characterization sampling (as necessary) and prepare and implement plans to contain site in place to support a recommendation for integrated NFA. This requires demonstrating that a site does not impact human health, the environment, and ground water or surface water quality.

**References:** "RFI Work Plan for Operable Unit 1071," Chapter 5.7, May 1992, LA-UR-92-810. "Draft RFI Report for PRS 0-027, DP Road Storage Area," in preparation.

## Potential Release Site (PRS ) - 00-030(b)

**Location:** DP Road Site

**Category:** Surface Unit

**Ten-year Plan Description:** Buildings/Equipment

**History:** PRS 00-030(b), also known as Septic System #1, is located east of the Sixth Street warehouses. The septic system is composed of four tanks that served Sixth Street Warehouses 1 through 4, an office building, a cold storage plant, and the eastern portion of TA-1. Several 6-in. drain lines routed sanitary waste from the buildings and warehouses to a main 8-in. drain line that discharged to the septic tanks. The septic tanks discharged to a leach field located east of the Sixth Street warehouses and ultimately to an outfall to Los Alamos Canyon. In 1995, RFI samples were collected from within and below each component of the septic system, and then all four septic tanks were closed in place. In 1996, VCA activities included removing a small volume of contaminated soil associated with the distribution box.

**Current Regulatory Status:** This PRS is on the HSWA Permit and was proposed for no further action (NFA) on the basis of human health risk alone. The New Mexico Environment Department (NMED) has not yet concurred with this recommendation.

**Proposed Remedy:** In Situ containment (which was accomplished when the tanks were closed in place).

**Future Actions Required:** Conduct confirmatory sampling (as necessary) to support a recommendation for integrated NFA. This requires demonstrating that a site does not impact human health, the environment, and ground water or surface water quality.

**References:** "RFI Work Plan for OU 1071", Environmental Restoration Project, May 1992, LA-UR-92-810; "RFI Report for PRSs 0-004, 0-010(b), 0-030(b), 0-033(b)," May 1996, (LA-UR-96-1749). "Voluntary Corrective Action Completion Report for PRSs 0-030(b), and 0-033(b)," September 1996 (LA-UR-96-2278).

## Potential Release Site (PRS ) - 00-030(I)

**Location:** DP Road Site

**Category:** Surface Unit

**Ten-year Plan Description:** Buildings/Equipment

**History:** PRS 00-030(I) consisted of a 1,000 gal. concrete septic tank and 6-in. vitrified-clay pipe (VCP) drain lines that served 6<sup>th</sup> Street Warehouses 3 and 4. This septic system reportedly handled sanitary wastes and discharge from a blow-down tank used to release pressure from a boiler. Chemicals used to de-scale the boiler may have been released to the septic tank through the blow-down tank. No information exists regarding the nature or use of these chemicals. The outlet line from the septic tank discharged to Los Alamos Canyon. RFI samples were collected from within and below each component of the septic system. Based on the results and the relatively inexpensive cost estimate for removal, VCA activities were conducted to remove the tank and approximately 40 ft of inlet drain line, collect confirmation samples, and backfill and restore the site.

**Current Regulatory Status:** This PRS is on the HSWA Permit and was proposed for no further action (NFA) on the basis of human health risk alone. The New Mexico Environment Department (NMED) has not yet concurred with this recommendation.

**Proposed Remedy:** No additional remedial action is anticipated to be required.

**Future Actions Required:** Conduct confirmatory sampling (as necessary) to support a recommendation for integrated NFA. This requires demonstrating that a site does not impact human health, the environment, and ground water or surface water quality.

**References:** "RFI Work Plan for OU 1071", Environmental Restoration Project, May 1992, LA-UR-92-810; Voluntary Corrective Action Completion Report for SWMUs 0-030(I), 0-030(m), 0-033(a), August 1996, LA-UR-96-2901.

## Potential Release Site (PRS ) - 00-030(m)

**Location:** DP Road Site

**Category:** Surface Unit

**Ten-year Plan Description:** Buildings/Equipment

**History:** PRS 00-030(m) consisted of a 10 ft x 6 ft x 6 ft wood septic tank and 6-in. vitrified-clay pipe (VCP) drain lines that served an incinerator building where residential garbage was burned. Prior to incinerating the garbage, excess liquids of unknown chemical content were allowed to drain off and were supposedly piped into the septic tank. This system also handled sanitary wastes from the incinerator building. The outlet line ran east along the edge of the mesa for approximately 400 ft before connecting to the outlet drain line from PRS 00-030(b), which discharged to Los Alamos Canyon. RFI samples were collected from within and below each component of the septic system in 1995. Based on the results, VCA activities were conducted to remove the tank, inlet drain line, and surrounding soil/tuff; collect confirmation samples; and backfill and restore the site.

**Current Regulatory Status:** This PRS is on the HSWA Permit and was proposed for no further action (NFA) on the basis of human health risk alone. The New Mexico Environment Department (NMED) has not yet concurred with this recommendation.

**Proposed Remedy:** No additional remedial action is anticipated to be necessary.

**Future Actions Required:** Conduct confirmatory sampling (as necessary) to support a recommendation for integrated NFA. This requires demonstrating that a site does not impact human health, the environment, and ground water or surface water quality.

**References:** "RFI Work Plan for OU 1071", Environmental Restoration Project, May 1992, LA-UR-92-810. "Voluntary Corrective Action Completion Report for SWMUs 0-030(l), 0-030(m), 0-033(a)," August 1996, LA-UR-96-2901.

## Potential Release Site (PRS ) - 00-033(a)

**Location:** DP Road Site

**Category:** Surface Unit

**Ten-Year Description:** Surface/Subsurface Material/Waste

**History:** PRS 0-033(a), is a 5,000 gallon abandoned, underground storage tank (UST) containing diesel fuel which served a generator in Warehouse #3 at the Sixth Street Warehouse. The Sixth Street Warehouse is located within TA-0, now TA-21, south of the intersection of Sixth Street and DP Road. In 1995 a VCA for this site was conducted. The contents of the UST were removed (3,200 gallons of water and diesel fuel), then the steel tank was excavated with a trackhoe. Following removal of the UST, the contaminated fill material and the tuff below the tank was excavated to a depth of approximately 10 feet. Five confirmatory boreholes were drilled and sampled to determine extent of contamination.

**Current Regulatory Status:** PRS 00-033(a), an UST, is on the HSWA Permit (as PRS 0-033) and was proposed for no further action (NFA) on the basis of human health risk alone. The New Mexico Environment Department (NMED) has not yet concurred with this recommendation.

**Proposed Remedy:** Removal of residual contamination, if any.

**Future Actions Required:** Remove residual contamination (as necessary) and conduct confirmatory sampling to support a recommendation for integrated NFA. This requires demonstrating that a site does not impact human health, the environment, and ground water or surface water quality.

**References: History:** "RFI Work Plan for Operable Unit 1071," May 1992, LA-UR-92-810. "Voluntary Corrective Action Completion Report for SWMUs 0-030(l), 0-030(m), 0-033(a)," August 1996, LA-UR-96-2901

Potential Release Site (PRS ) - 00-033(b)

**Location:** DP Road Site

**Category:** Surface Unit

**Ten-year Plan Description:** Buildings/Equipment

**History:** PRS 00-033(b) consists of potential soil contamination related to operations associated with the materials testing laboratory at the Sixth Street warehouses. The materials testing laboratory was constructed south of Warehouses 3 and 4 in 1948; operations involved the use of solvents, asphalt leaching, destructive testing of concrete cylinders, and sieve tests of aggregates for roadwork. Potential environmental concerns at this PRS include three floor drains and two drain lines, which discharged to an outfall in Los Alamos Canyon. RFI samples were collected from within and below the drain lines in 1995; the storm sewers, blow-off tank, and floor drains that drained to the unlined ditch were sampled as part of PRS 00-004. In 1996, VCA activities were conducted.

**Current Regulatory Status:** This PRS is not on the HSWA Permit and was proposed for no further action (NFA) on the basis of human health risk alone. The Department of Energy (DOE) has not yet concurred with this recommendation.

**Proposed Remedy:** Removal of residual contamination, if any.

**Future Actions Required:** Remove residual contamination (as necessary) and conduct confirmatory sampling to support a recommendation for integrated NFA. This requires demonstrating that a site does not impact human health, the environment, and ground water or surface water quality.

**References:** "RFI Work Plan for OU 1071", Environmental Restoration Project, May 1992, LA-UR-92-810; "RFI Report for PRSs 0-004, 0-010(b), 0-030(b), 0-033(b)," May 1996, (LA-UR-96-1749). "Voluntary Corrective Action Completion Report for PRSs 0-030(b), and 0-033(b)," September 30, 1996 (LA-UR-96-2278).

## Potential Release Site (PRS) - 21-029

**Location:** DP Road Site

**Category:** Surface Unit

**Ten-Year Plan Description:** Surface Unit

**History:** PRS 21-029, the DP Tank Farm, is the former location of 15 fuel storage tanks and two fill stations located on the north side and at the far west end of DP Road. All tanks and structures were decommissioned and removed in 1988. Sample analysis results indicate little potential for significant environmental contamination. All tanks appear to have stored petroleum hydrocarbon products. Of the 15 tanks, only one was found to have leaked. As a result, approximately 4 cubic yards of soil contaminated with diesel fuel was removed. Initial results from the 1994 RFI indicated that a release at one of the fill stations had not been fully addressed in 1988. The TPH levels did not exceed UST clean-up levels; however, a clean-up was performed as a best management practice. In addition, a small area of TPH contamination was identified in the adjacent canyon bottom. It is not known whether this contamination originated at PRS 21-029 or elsewhere. In June 1998, the New Mexico Environment Department (NMED) issued a compliance order requiring preparation of a workplan to further investigate the site; this workplan was drafted and submitted in October 1998.

**Current Regulatory Status:** This PRS is on the HSWA Permit and is under investigation.

**Proposed Remedy:** Removal of residual contamination, if any.

**Future Actions Required:** Complete site investigation by implementing the workplan, remove residual contamination (as necessary), and conduct confirmatory sampling to support a recommendation for integrated NFA. This requires demonstrating that a site does not impact human health, the environment, and ground water or surface water quality.

**References:** "TA-21 Operable Unit RFI Work Plan for Environmental Restoration," May 1991, LA-UR-91-962. "RFI Report for Potential Release Site 21-029," June 1996, LA-UR-95-3693. "VCA Corrective Action Report for Potential Release Site 21-029, DP Tank Farm," July 1996, LA-UR-96-2408. "RCRA Facility Investigation Work Plan, Volume II, DP Tank Farm," October 1998, LA-UR-98-4169.

**Potential Release Site (PRS) - 00-003**

**Location:** DOE LAAO Site

**Category:** Surface Unit

**Ten-Year Plan Description:** Above Ground Material/Waste

**History:** PRS 00-003 was a product storage area of approximately 100 sq. ft located directly east of the Western Steam Plant. The storage area was used to store 55-gallon drums of chemicals used for boiler water treatment. The storage area was decommissioned in 1987. There were known spills; however, the frequency and volumes were not documented. In 1997, RFI samples were collected from the storage area.

**Current Regulatory Status:** This PRS is on the HSWA Permit and was proposed for no further action on the basis of human health risk, alone. The New Mexico Environment Department (NMED) has not yet approved this recommendation.

**Proposed Remedy:** Removal of residual contamination, if any.

**Future Actions Required:** Remove residual contamination (as necessary) and conduct confirmatory sampling to support a recommendation for integrated NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water or surface water quality.

**References:** "RFI Work Plan for OU 1071, Environmental Restoration Project," May 1992, LA-UR-92-810. "RFI Report for Potential Release Sites 0-003 and 0-012," September 1997, LA-UR-97-3828.

**Potential Release Site (PRS) - 00-012**

**Location:** DOE LAAO Site

**Category:** Subsurface Unit

**Ten-Year Plan Description:** Tanks (Underground Storage)

**History:** PRS 00-012 consists of an underground filtration tank (blow-off tank) and floor drains associated with the Western Steam Plant. The tank received blow down steam and water from the boilers at the plant. The floor drains were found to be routed directly to the existing sanitary system. The tank was sampled during a Phase I RFI performed in 1997.

**Current Regulatory Status:** This PRS is on the HSWA Permit and was proposed for no further action on the basis of human health risk, alone. The New Mexico Environment Department (NMED) has not yet approved this recommendation.

**Proposed Remedy:** Removal of residual contamination, if any.

**Future Actions Required:** Remove residual contamination (as necessary) and conduct confirmatory sampling to support a recommendation for integrated NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water or surface water quality.

**References:** "RFI Work Plan for OU 1071," Environmental Restoration Project, May 1992, LA-UR-92-810. "RFI Report for Potential Release Sites 0-003 and 0-012," September 1997, LA-UR-97-3828.

**Potential Release Site (PRS) - 00-030(i)**

**Location:** DOE LAAO Site

**Category:** Outfall

**Ten-Year Plan Description:** Buildings/Equipment

**History:** PRS 00-030(i) was a septic system consisting of a tank and associated inlet and outlet lines leading to an outfall. It is believed to have served a mess hall, dormitories, barracks, a military post office, a post exchange, and the Sundt apartments along Finch Street and south of Trinity Drive. The tank was approximately 16 ft long x 8 ft wide x 8 ft deep. The vitrified-clay pipe (VCP) outlet drainline discharged to an outfall within a drainage channel located approximately 100 ft southwest of the septic tank. In 1995, RFI samples were collected from within and below each component of the septic system, and then the associated piping was removed and the remaining lines were grouted in place. The septic tank was removed during VCA activities in April 1996.

**Current Regulatory Status:** This PRS is not on the HSWA Permit and was proposed for no further action on the basis of human health risk, alone. The Department of Energy (DOE) has not yet approved this recommendation.

**Proposed Remedy:** Removal of residual contamination, if any.

**Future Actions Required:** Remove residual contamination (as necessary) and conduct confirmatory sampling to support a recommendation for integrated NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water or surface water quality.

**References:** *"RFI Work Plan for OU 1071, Environmental Restoration Project,"* May 1992, LA-UR-92-810. *"VCA Report for PRSs 0-030(h,i,n,o,p)"* September 1996, LA-UR-96-3351.

**Potential Release Site (PRS) - 00-034(a)**

**Location:** Airport Site

**Category:** Surface Unit

**Ten-Year Plan Description:** Surface/Subsurface Material/Waste

**History:** PRS 00-034(a) is included in SWMU Group 0-5 of former OU 1071 and is located northwest of Nambe Place in the Eastern Area, a residential area west of the Los Alamos Airport. It was mistakenly identified from a 1946 aerial photograph as a trench. However, a former site worker has identified the trench-like image on the photograph as part of the Zia Company's operation for making concrete blocks and small batches of concrete. No field investigations were conducted because the site was used only for the production of cement/concrete material, and no RCRA solid or hazardous wastes or constituents or other CERCLA hazardous substances were managed at the site.

**Current Regulatory Status:** This PRS is on the HSWA Permit and is currently under investigation.

**Proposed Remedy:** In Situ containment of residual contamination, if necessary.

**Future Actions Required:** Conduct confirmatory sampling (as appropriate) and prepare and implement plans to contain residual contamination in place (if necessary) to support a recommendation for integrated no further action (NFA), which requires demonstrating that the site does not impact human health, the environment, and ground water or surface water quality.

**References:** "RFI Work Plan for OU 1071," Environmental Restoration Project, May 1992, LA-UR-92-810.

## Potential Release Site (PRS) - 73-001(a)

**Location:** Airport Site

**Category:** Subsurface Unit

**Ten-Year Plan Description:** Surface/Subsurface Material/Waste

**History:** PRS 73-001(a) is a former burning area/landfill situated north of the airport runway. Initially the main landfill consisted of a natural, hanging valley into which municipal waste was disposed. As more capacity was required, trenches were excavated into the tuff. Laboratory use of the disposal area probably began in 1943, and Los Alamos County operated the landfill from 1965 until 1973. Garbage was collected from the Laboratory and townsite and was burned. Uranium metal was reportedly disposed of in the landfill on two occasions; however, efforts were made at the time to recover as much as possible. Intentional burning at the landfill ceased in 1965. Heavy equipment was used to remove burned residues and ash from the burn area on a monthly basis and move it to the trenches. Landfill volume is estimated to be 489,500 cubic yards. From 1993 to 1997, extensive RFI activities were conducted, including a surface radiological survey, geophysical survey, geomorphological mapping, infrared photography survey, soil gas survey, surface and drainage channel sampling, drilling and sampling, flux chamber testing, and cone penetrometer testing. Analytical results from the sampling activities are typical of those expected for a municipal landfill.

**Current Regulatory Status:** This PRS is on the HSWA Permit and is currently under investigation.

**Proposed Remedy:** In Situ containment.

**Future Actions Required:** Prepare and implement plans to contain site in place to support a recommendation for integrated NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water or surface water quality.

**References:** "RFI Work Plan for OU 1071, Environmental Restoration Project," May 1992, LA-UR-92-810. "RFI Report for Airport Landfill Areas Potential Release Sites 73-001(a), 73-001(b), 73-001(c), 73-001(d), 73-004(d)," September 1998, LA-UR 98-3824.

**Potential Release Site (PRS) - 73-001(b)**

**Location:** Airport Site

**Category:** Subsurface Unit

**Ten-Year Plan Description:** Surface/Subsurface Material/Waste

**History:** PRS 73-001(b) is a waste oil pit approximately 100 ft x 25 ft with an unknown depth that was located northeast of the original end of the runway. The period of operation is estimated to have been from 1947 to 1974. Used oil from the motor pool and other operations are known to have been disposed at this PRS. No releases were reported during its operation. The Zia Company reportedly closed the waste oil pit by filling it with clean sand to solidify its contents. Recent RFI results indicate that the closed waste oil pit was incorporated into 73-001(d) when the disposal trenches were excavated.

**Current Regulatory Status:** This PRS is on the HSWA Permit and is currently under investigation.

**Proposed Remedy:** In Situ containment of residual contamination, if necessary.

**Future Actions Required:** Conduct confirmatory sampling to support a recommendation for integrated NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water or surface water quality.

**References:** "RFI Work Plan for OU 1071, Environmental Restoration Project," May 1992, LA-UR-92-810. "RFI Report for Airport Landfill Areas Potential Release Sites 73-001(a), 73-001(b), 73-001(c), 73-001(d), 73-004(d)," September 1998, LA-UR 98-3824.

## Potential Release Site (PRS) - 73-001(c)

**Location:** Airport Site

**Category:** Subsurface Unit

**Ten-Year Plan Description:** Surface/Subsurface Material/Waste

**History:** PRS 73-001(c) is a landfill containing debris from the demolition of four high explosive (HE) storage bunkers that were constructed of concrete in 1947, along the north canyon rim east of the original runway. The bunkers were demolished in 1974. The rubble from the bunkers was placed in two large pits adjacent to the bunker sites in a small trench at the northeast corner of the runway and beneath the 1974 runway extension. Recent RFI results indicate that the disposal pits adjacent to the bunker sites were incorporated into 73-001(d) when the disposal trenches were excavated.

**Current Regulatory Status:** This PRS is on the HSWA Permit and is currently under investigation.

**Proposed Remedy:** In Situ containment of residual contamination, if necessary.

**Future Actions Required:** Conduct confirmatory sampling to support a recommendation for integrated NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water or surface water quality.

**References:** "RFI Work Plan for OU 1071, Environmental Restoration Project," May 1992, LA-UR-92-810. "RFI Report for Airport Landfill Areas Potential Release Sites 73-001(a), 73-001(b), 73-001(c), 73-001(d), 73-004(d)," September 1998, LA-UR 98-3824.

## Potential Release Site (PRS) - 73-001(d)

**Location:** Airport Site

**Category:** Subsurface Unit

**Ten-Year Plan Description:** Surface/Subsurface Material/Waste

**History:** PRS 73-001(d) is a debris disposal area consisting of two roughly parallel, unlined trenches with a depth of approximately 35 feet. To the west, the trenches extend to within approximately 150 feet of the windsock; and to the east, they extend approximately 800 feet beyond the end of the runway. The north and south boundaries extend to within approximately 50 feet of the security fence and the asphalt runway, respectively. In 1984 the site was used to bury debris excavated from the western portion of 73-001(a) and the excavation of PRSs 73-001(b) and 73-001(c). The trenches are estimated to contain 126,000 cubic yards. In 1986 the landfill debris disposal areas were covered with soil and re-vegetated.

**Current Regulatory Status:** This PRS is on the HSWA Permit and is currently under investigation.

**Proposed Remedy:** In Situ containment.

**Future Actions Required:** Prepare and implement plans to contain site in place to support a recommendation for integrated NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water or surface water quality.

**References:** "RFI Work Plan for OU 1071, Environmental Restoration Project," May 1992, LA-UR-92-810. "RFI Report for Airport Landfill Areas Potential Release Sites 73-001(a), 73-001(b), 73-001(c), 73-001(d), 73-004(d)," September 1998, LA-UR 98-3824.

## Potential Release Site (PRS) - 73-002

**Location:** Airport Site

**Category:** Surface Unit

**Ten-Year Plan Description:** Surface/Subsurface Material/Waste

**History:** PRS 73-002 was an incinerator located west of the Los Alamos Airport Terminal and on the south rim of Pueblo Canyon. The incinerator was originally used to destroy classified documents from the Laboratory; however, this was discontinued after a short period due to incomplete combustion. It was then used to burn trash and debris until it was dismantled. The incinerator building remains in place. However, the incinerator equipment and stack have been removed. This PRS also includes a surface disposal area extending from the building over the rim of canyon. The surface disposal area contains ashes and rusty cans, presumably end products of the incineration operation. Recent RFI results indicate that elevated levels of organics and inorganics are present and the ash pile will require removal.

**Current Regulatory Status:** This PRS is on the HSWA Permit and is currently under investigation.

**Proposed Remedy:** Removal of ash pile.

**Future Actions Required:** Remove contaminated ash pile (as necessary) and conduct confirmatory sampling to support a recommendation for integrated NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water or surface water quality.

**References:** "RFI Work Plan for OU 1071," Environmental Restoration Project, May 1992, LA-UR-92-810.

## Potential Release Site (PRS) - 73-003

**Location:** Airport Site

**Category:** Surface Unit

**Ten-Year Plan Description:** Buildings/Equipment

**History:** PRS 73-003 was a steam cleaning plant for garbage trucks, cans, and dumpsters that were used for the collection of municipal waste. It was located approximately 30 feet south of the incinerator. The wash water was discharged into a septic tank (PRS 73-004(b)) located to the west of the plant. The plant was used from 1949 until October 1970 and was demolished in 1971. The area is currently paved and is used as a parking lot.

**Current Regulatory Status:** This PRS is not on the HSWA Permit and is currently under investigation.

**Proposed Remedy:** In Situ containment of residual contamination, if necessary.

**Future Actions Required:** Implement sampling and analysis plan, prepare and implement plans to contain residual contamination in place (if necessary), and conduct confirmatory sampling (as necessary) to support a recommendation for integrated NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water or surface water quality.

**References:** "RFI Work Plan for OU 1071, Environmental Restoration Project," May 1992, LA-UR-92-810. "Voluntary Corrective Action Completion Report for Potential Release Sites 73-004(a,b), 73-007, and C-73-005(a-f)," September 1996, LA-UR-96-3350. "Sampling and Analysis Plan for SWMU Group 73-2, PRSs 73-003, 73-004(a), 73-004(b), 73-005, 73-006, 73-007 and C-73-005(a-f)," November 1998, LA-UR-98-4076.

**Potential Release Site (PRS) - 73-004(a)**

**Location:** Airport Site

**Category:** Outfall

**Ten-Year Plan Description:** Tanks (Septic, Above Ground)

**History:** PRS 73-004(a) was a septic tank that received sanitary waste from toilets and shower facilities located in the adjacent incinerator building. The tank was concrete and discharged through a 6 in. vitrified-clay pipe (VCP) to an outfall to Pueblo Canyon. The tank and associated piping were removed during VCA activities in 1996.

**Current Regulatory Status:** This PRS is on the HSWA Permit and was proposed for no further action (NFA) on the basis of human health risk alone. The New Mexico Environment Department (NMED) has not yet concurred with this recommendation.

**Proposed Remedy:** In Situ containment of residual contamination, if any.

**Future Actions Required:** Implement sampling and analysis plan, prepare and implement plans to contain residual contamination in place (if necessary), and conduct confirmatory sampling (as necessary) to support a recommendation for integrated NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water or surface water quality.

**References:** *"RFI Work Plan for OU 1071, Environmental Restoration Project,"* May 1992, LA-UR-92-810. *"Voluntary Corrective Action Completion Report for Potential Release Sites 73-004(a,b), 73-007, and C-73-005(a-f),"* September 1996, LA-UR-96-3350. *"Sampling and Analysis Plan for SWMU Group 73-2, PRSs 73-003, 73-004(a), 73-004(b), 73-005, 73-006, 73-007 and C-73-005(a-f),"* November 1998, LA-UR-98-4076.

## Potential Release Site (PRS) - 73-004(b)

**Location:** Airport Site

**Category:** Outfall

**Ten-Year Plan Description:** Tanks (Septic, Above Ground)

**History:** PRS 73-004(b) was a septic tank that received wash water from a former steam cleaning plant that was used to clean out garbage trucks, cans, and dumpsters that contained municipal waste. The tank was concrete and discharged through a 6 in. vitrified-clay pipe (VCP) to an outfall to Pueblo Canyon. The tank and associated piping were removed during VCA activities in 1996.

**Current Regulatory Status:** This PRS is on the HSWA Permit and was proposed for no further action (NFA) on the basis of human health risk alone. The New Mexico Environment Department (NMED) has not yet concurred with this recommendation.

**Proposed Remedy:** In Situ containment of residual contamination, if any.

**Future Actions Required:** Implement sampling and analysis plan, prepare and implement plans to contain residual contamination in place (if necessary), and conduct confirmatory sampling (as necessary) to support a recommendation for integrated NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water or surface water quality.

**References:** "RFI Work Plan for OU 1071, Environmental Restoration Project," May 1992, LA-UR-92-810. "Voluntary Corrective Action Completion Report for Potential Release Sites 73-004(a,b), 73-007, and C-73-005(a-f)," September 1996, LA-UR-96-3350. "Sampling and Analysis Plan for SWMU Group 73-2, PRSs 73-003, 73-004(a), 73-004(b), 73-005, 73-006, 73-007 and C-73-005(a-f)," November 1998, LA-UR-98-4076.

## Potential Release Site (PRS) - 73-004(c)

**Location:** Airport Site

**Category:** Outfall

**Ten-Year Plan Description:** Tanks (Septic, Above Ground)

**History:** PRS 73-004(c) is a septic system that served the former airport terminal. A 4-in. diameter vitrified-clay pipe (VCP) connected the building toilets to the septic tank. Investigation into the tank location has been unsuccessful; however, it is believed the tank was removed prior to or during the 1984 airport expansion. The area of the former terminal building and septic tank was capped with 9-in. thick concrete pavement as part of the 1984 Los Alamos Airport Improvement Project.

**Current Regulatory Status:** This PRS is on the HSWA Permit and has been proposed for no further action on the basis of human health risk alone. The New Mexico Environment Department (NMED) has not yet concurred with this recommendation.

**Proposed Remedy:** No remedial action is anticipated to be required.

**Future Actions Required:** Conduct confirmatory sampling (as necessary) to support a recommendation for integrated NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water or surface water quality.

**References:** "RFI Work Plan for OU 1071," Environmental Restoration Project, May 1992, LA-UR-92-810. "NFA Report for Potential Release Sites at 0-034(a), 0-034(b), 73-001(b), 73-004(c), 73-04(d)," September 1997, LA-UR 97-3864.

## Potential Release Site (PRS) - 73-004(d)

**Location:** Airport Site

**Category:** Outfall

**Ten-Year Plan Description:** Tanks (Septic, Above Ground)

**History:** PRS 73-004(d) is a septic system that served the landfill office located east of the present airport terminal building and within the footprint of PRS 73-001(a). A 4 in. diameter vitrified-clay pipe (VCP) connected the building's toilet to the septic tank located about 20 ft northeast of the building. The building and septic tank were removed as part of the decommissioning operation in the early 1970s.

**Current Regulatory Status:** This PRS is on the HSWA Permit and has been proposed for no further action (NFA) on the basis of human health risk alone. The New Mexico Environment Department (NMED) has not yet concurred with this recommendation.

**Proposed Remedy:** In Situ containment of residual contamination, if necessary.

**Future Actions Required:** Conduct confirmatory sampling (as necessary) to support a recommendation for integrated NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water or surface water quality.

**References:** "RFI Work Plan for OU 1071, Environmental Restoration Project," May 1992, LA-UR-92-810. "RFI Report for Airport Landfill Areas Potential Release Sites 73-001(a), 73-001(b), 73-001(c), 73-001(d), 73-004(d)," September 1998, LA-UR 98-3824.

## Potential Release Site (PRS) - 73-005

**Location:** Airport Site

**Category:** Surface Unit

**Ten-Year Plan Description:** Surface/Subsurface Material/Waste

**History:** PRS 73-005 is a surface disposal area located south of State Road 502 consisting of mounds of concrete and other debris. The debris is apparently the remains of small, temporary office and storage buildings erected and used by construction contractors in the middle to late 1940s. The area was referred to as "contractors' row". No Laboratory operations were conducted at this site.

**Current Regulatory Status:** This PRS is on the HSWA Permit and is currently under investigation.

**Proposed Remedy:** Removal of residual debris.

**Future Actions Required:** Implement sampling and analysis plan, remove residual debris (as necessary), and conduct confirmatory sampling (as necessary) to support a recommendation for integrated NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water or surface water quality.

**References:** "RFI Work Plan for OU 1071, Environmental Restoration Project," May 1992, LA-UR-92-810. "Voluntary Corrective Action Completion Report for Potential Release Sites 73-004(a,b), 73-007, and C-73-005(a-f)," September 1996, LA-UR-96-3350. "Sampling and Analysis Plan for SWMU Group 73-2, PRSs 73-003, 73-004(a), 73-004(b), 73-005, 73-006, 73-007 and C-73-005(a-f)," November 1998, LA-UR-98-4076.

## Potential Release Site (PRS) - 73-006

**Location:** Airport Site

**Category:** Outfall

**Ten-Year Plan Description:** Surface/Subsurface Material/Waste

**History:** PRS 73-006 contains the outfalls associated with two drain lines that discharged through separate lines to Pueblo Canyon from the incinerator building. One drain line that originated at a floor drain in the stoking room was constructed of 6 in. vitrified-clay pipe (VCP) and extended approximately 18 ft from the north side of building to the canyon rim. A second VCP drain line is reported to have exited the northeast side of the building and then extended approximately 21 ft from the building to the canyon rim. These drains are presumed to have handled wash water and been in operation concurrent with the incinerator.

**Current Regulatory Status:** This PRS is on the HSWA Permit and is currently under investigation.

**Proposed Remedy:** In Situ containment of residual contamination, if any.

**Future Actions Required:** Implement sampling and analysis plan, prepare and implement plans to contain residual contamination in place (if necessary), and conduct confirmatory sampling (as necessary) to support a recommendation for integrated NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water or surface water quality.

**References:** "RFI Work Plan for OU 1071, Environmental Restoration Project," May 1992, LA-UR-92-810. "RFI Work Plan for OU 1071, Environmental Restoration Project," May 1992, LA-UR-92-810. "Sampling and Analysis Plan for SWMU Group 73-2, PRSs 73-003, 73-004(a), 73-004(b), 73-005, 73-006, 73-007 and C-73-005(a-f)," November 1998, LA-UR-98-4076.

## Potential Release Site (PRS) - 73-007

**Location:** Airport Site

**Category:** Outfall

**Ten-Year Plan Description:** Surface/Subsurface Material/Waste

**History:** PRS 73-007, located south of State Road 502, was a steel septic tank that received sanitary waste from an unknown facility within the former contractors' row during the middle to late 1940s. The tank was removed and drain lines were abandoned in place during VCA activities in 1996.

**Current Regulatory Status:** This PRS is not on the HSWA Permit and is currently under investigation.

**Proposed Remedy:** Removal of residual contamination, if any.

**Future Actions Required:** Implement sampling and analysis plan, remove residual contamination (if necessary), and conduct confirmatory sampling (as necessary) to support a recommendation for integrated NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water or surface water quality.

**References:** *"RFI Work Plan for OU 1071, Environmental Restoration Project,"* May 1992, LA-UR-92-810. *"Voluntary Corrective Action Completion Report for Potential Release Sites 73-004(a,b), 73-007, and C-73-005(a-f),"* September 1996, LA-UR-96-3350. *"Sampling and Analysis Plan for SWMU Group 73-2, PRSs 73-003, 73-004(a), 73-004(b), 73-005, 73-006, 73-007 and C-73-005(a-f),"* November 1998, LA-UR-98-4076.

**Potential Release Site (PRS) - C-31-001**

**Location:** Airport Site

**Category:** Surface Unit

**Ten-Year Plan Description:** Buildings/Equipment

**History:** PRS C-31-001 consists of the soil beneath former structure locations and the paved parking area. The structures included several warehouses, a loading dock, and an oil drum storage site. No chemicals were routinely stored at the site during its operation. The only liquid storage documented was oil products. The storage yard was paved, which protected soils from liquid spills. Any possible contamination would have been removed during decommissioning (exact date unknown).

**Current Regulatory Status:** This PRS is not on the HSWA Permit and was recommended for no further action (NFA) on the basis of human health risk alone. NFA concurrence was received from the Department of Energy (DOE).

**Proposed Remedy:** No remedial action is anticipated to be necessary

**Future Actions Required:** Conduct confirmatory sampling (as necessary) to support a recommendation for integrated NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water or surface water quality.

**References:** "RFI Work Plan for OU 1071," Environmental Restoration Project, May 1992, LA-UR-92-810.

## Potential Release Site (PRS) - C-73-001

**Location:** Airport Site

**Category:** Subsurface Unit

**Ten-Year Plan Description:** Tanks (Underground Storage)

**History:** PRS C-73-001 was a 2,000 gal. underground storage tank owned by the Los Alamos Pilots Association used to store aviation fuel for Los Alamos Airport. The tanks were removed in May 1992 and replaced by new double walled tanks.

**Current Regulatory Status:** This PRS is not on the HSWA Permit and was recommended for no further action (NFA) on the basis of human health risk alone. NFA concurrence was received from the Department of Energy (DOE).

**Proposed Remedy:** No remedial action is anticipated to be necessary.

**Future Actions Required:** Conduct confirmatory sampling (as necessary) to support a recommendation for integrated NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water or surface water quality.

**References:** "RFI Work Plan for OU 1071," Environmental Restoration Project, May 1992, LA-UR-92-810.

**Potential Release Site (PRS) - C-73-002**

**Location:** Airport Site

**Category:** Subsurface Unit

**Ten-Year Plan Description:** Tanks (Underground Storage)

**History:** PRS C-73-002 was a 6,000 gal. underground storage tank owned by the Los Alamos Pilots Association used to store aviation fuel for Los Alamos Airport. The tanks were removed in May 1992 and replaced by new double walled tanks.

**Current Regulatory Status:** This PRS is not on the HSWA Permit and was recommended for no further action (NFA) on the basis of human health risk alone. NFA concurrence was received from the Department of Energy (DOE).

**Proposed Remedy:** No remedial action is anticipated to be necessary.

**Future Actions Required:** Conduct confirmatory sampling (as necessary) to support a recommendation for integrated NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water or surface water quality.

**References:** "RFI Work Plan for OU 1071," Environmental Restoration Project, May 1992, LA-UR-92-810.

## Potential Release Site (PRS) - C-73-003

**Location:** Airport Site

**Category:** Subsurface Unit

**Ten-Year Plan Description:** Tanks (Underground Storage)

**History:** PRS C-73-003 was a 4,000 gal. underground storage tank owned by the Los Alamos Pilots Association used to store aviation fuel for Los Alamos Airport. The tanks were removed in May 1992 and replaced by new double-walled tanks.

**Current Regulatory Status:** This PRS is not on the HSWA Permit and was recommended for no further action (NFA) on the basis of human health risk alone. NFA concurrence was received from the Department of Energy (DOE).

**Proposed Remedy:** No remedial action is anticipated to be necessary.

**Future Actions Required:** Conduct confirmatory sampling (as necessary) to support a recommendation for integrated NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water or surface water quality.

**References:** "RFI Work Plan for OU 1071," Environmental Restoration Project, May 1992, LA-UR-92-810.

**Potential Release Site (PRS) - C-73-004**

**Location:** Airport Site

**Category:** Subsurface Unit

**Ten-Year Plan Description:** Tanks (Underground Storage)

**History:** PRS C-73-004 was 6,000 gallon underground storage tank owned by the Los Alamos Pilots Association used to store aviation fuel for Los Alamos Airport. The tanks were removed in May 1992 and replaced by new double walled tanks.

**Current Regulatory Status:** This PRS is not on the HSWA Permit and was recommended for no further action (NFA) on the basis of human health risk alone. NFA concurrence was received from the Department of Energy (DOE).

**Proposed Remedy:** No remedial action is anticipated to be necessary.

**Future Actions Required:** Conduct confirmatory sampling (as necessary) to support a recommendation for integrated NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water or surface water quality.

**References:** "RFI Work Plan for OU 1071," Environmental Restoration Project, May 1992, LA-UR-92-810.

## Potential Release Sites (PRs) - C-73-005(a-f)

**Location:** Airport Site

**Category:** Material Disposal Units

**Ten-Year Plan Description:** Surface/Subsurface Material/Waste

**History:** PRs C-73-005(a-f) are six unlined pits of various dimensions ranging from 3 to 6 ft x 5 to 12 ft x 2.5 to 6 ft that were discovered on Department of Energy (DOE) property on East Mesa south of State Road 502, between the road and the north edge of DP Canyon. It is likely these pits received sanitary waste from facilities within former Contractor's Row during the period from 1947 to 1951. However, there are no records of pit construction or operation and no engineering drawings or other historical information that illustrate the location of a former facility or septic pit within this area. These pits were all excavated directly into tuff, with excavated material piled next to each pit. C-73-005(a) was constructed with a 4-in. vitrified-clay pipe (VCP) inlet drain line that was connected to the edge of the mesa by a shallow trench that may have contained an outlet drain line at one time or may have acted directly as an open drainage ditch. C-73-005(b) was constructed with a VCP outlet drain line, but no visible inlet drain line. The other four pits contained no visible inlet or outlet lines or trenches. When discovered in 1996, the pits contained fill material ranging from 1 to approximately 3.8 ft thick, consisting of natural soil and tuff fragments as well as organic debris, glass, metal, and charred wood. All pits have since been backfilled to eliminate any physical hazard. RFI samples associated with PRs C-73-005(a-f) were collected in 1996; additional samples are proposed to complete the RFI by determining the extent of contaminants of potential concern (COPCs).

**Current Regulatory Status:** These PRs are not on the HSWA Permit and are currently under investigation.

**Proposed Remedy:** Removal of residual contamination, if any.

**Future Actions Required:** Implement sampling and analysis plan, remove residual contamination (if necessary), and conduct confirmatory sampling (as necessary) to support a recommendation for integrated NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water or surface water quality.

**References:** "RFI Work Plan for OU 1071, Environmental Restoration Project," May 1992, LA-UR-92-810. "Voluntary Corrective Action Completion Report for Potential Release Sites 73-004(a,b), 73-007, and C-73-005(a-f)," September 1996, LA-UR-96-3350. "Sampling and Analysis Plan for SWMU Group 73-2, PRs 73-003, 73-004(a), 73-004(b), 73-005, 73-006, 73-007 and C-73-005(a-f)," November 1998, LA-UR-98-4076.

Potential Release Site (PRS) - 00-015

**Location:** Rendija Canyon

**Category:** Surface Unit

**Ten-Year Plan Description:** Firing Ranges/Ordnance

**History:** PRS 00-015 is an active firing range located in Rendija Canyon and consists of several small arms ranges operated by the Los Alamos Sportsman's Club, under lease from the Department of Energy (DOE). Currently there are no plans to change the use of this land. In LANL's Work Plan it was recommended that no further action be taken until it ceases to be used as a firing range and the land is dedicated to some other use.

**Current Regulatory Status:** This PRS is not on the HSWA Permit and was recommended for no further action (NFA) on the basis of its continuing operation, alone. NFA concurrence was received from the Department of Energy (DOE).

**Proposed Remedy:** Removal of residual contamination/ordnance as appropriate, if the firing range does not remain in operation after the parcel is transferred.

**Future Actions Required:** Remove residual contamination/ordnance and conduct confirmatory sampling (as necessary) to support a recommendation for integrated NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water or surface water quality.

**References:** "RFI Work Plan for OU 1071, Environmental Restoration Project," May 1992, LA-UR-92-810. "NFA Permit Modification," memo from T. Taylor, Program Manager, Environmental Restoration Program, Department of Energy Los Alamos Area Office, to J. Jansen, Program Manager, Environment Restoration Project, University of California, October 1995.

**Potential Release Site (PRS) - 00-011(e)**

**Location:** Rendija Canyon

**Category:** Surface Unit

**Ten-Year Plan Description:** Firing Ranges/Ordnance

**History:** PRS 00-011(e) was an ordnance impact area northeast of the Sportsman's Club firing range in Thirty Seven Millimeter Canyon, a tributary of Rendija Canyon. During RFI investigations in 1993, materials were recovered including 20 mm rounds, 102 mm armor piercing rounds, and fragments of 37 mm high explosive (HE) rounds. In addition 350 pieces of fragments and expended bullets were removed.

**Current Regulatory Status:** This PRS is on the HSWA Permit and was proposed for no further action (NFA) on the basis of human health risk alone. The New Mexico Environment Department (NMED) has not yet concurred with this recommendation.

**Proposed Remedy:** No additional remedial action is anticipated to be necessary under the "preservation" land use scenario. Under the residential land use scenario, removal of residual contamination/ordnance is expected to be required.

**Future Actions Required:** Remove residual contamination/ordnance, if necessary. Conduct confirmatory sampling (as necessary) to support a recommendation for integrated NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water or surface water quality.

**References:** *"RFI Work Plan for OU 1071, Environmental Restoration Project,"* May 1992, LA-UR-92-810. *"RFI Phase Report, Operable Unit 1071, SWMU Aggregate O-D, Ordnance Impact Areas,"* March 1994.

**Potential Release Site (PRS): 0-011(c)**

**Location:** Rendija Canyon

**Category:** Surface Unit

**Ten-Year Plan Description:** Firing Ranges/Ordnance

**History:** PRS 0-011(c) was a suspected ordnance impact area located northwest of the Sportsman's Club firing range in Cabra Canyon, a tributary to Rendija Canyon. During RFI investigations in 1993 extensive ordnance surveys did not locate any ordnance or high explosive (HE) fragments.

**Current Regulatory Status:** This PRS is on the HSWA Permit and was proposed for no further action (NFA) on the basis of human health risk alone. The New Mexico Environment Department (NMED) has not yet concurred with this recommendation.

**Proposed Remedy:** No additional remedial action is anticipated to be necessary under the "preservation" land use scenario. Under the residential land use scenario, removal of residual contamination/ordnance (if any) is expected to be required.

**Future Actions Required:** Remove residual contamination/ordnance, if necessary. Conduct confirmatory sampling (as necessary) to support a recommendation for integrated NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water or surface water quality.

**References:** "RFI Work Plan for OU 1071, Environmental Restoration Project," May 1992, LA-UR-92-810. "RFI Phase Report, Operable Unit 1071, SWMU Aggregate O-D, Ordnance Impact Areas," March 1994.

**Potential Release Site (PRS): 00-011(a)**

**Location:** Rendija Canyon

**Category:** Surface Unit

**Ten-Year Plan Description:** Firing Ranges/Ordnance

**History:** PRS 0-011(a) was an ordnance impact area containing approximately 28.5 acres located about 0.4 miles east of the Sportsman's Club firing range in Rendija Canyon. During the 1993, live high explosive (HE) mortar rounds with live fuses were removed. In addition approximately 2,400 pieces of ordnance fragments were removed.

**Current Regulatory Status:** This PRS is on the HSWA Permit and was proposed for no further action (NFA) on the basis of human health risk alone. The New Mexico Environment Department (NMED) has not yet concurred with this recommendation.

**Proposed Remedy:** No additional remedial action is anticipated to be necessary under the "preservation" land use scenario. Under the residential land use scenario, removal of residual contamination/ordnance (if any) is expected to be required.

**Future Actions Required:** Remove residual contamination/ordnance, if necessary. Conduct confirmatory sampling (as necessary) to support a recommendation for integrated NFA. This requires demonstrating that the site does not impact human health, the environment, and ground water or surface water quality.

**References:** "RFI Work Plan for OU 1071 Environmental Restoration Project," May 1992, LA-UR-92-810. "RFI Phase Report, Operable Unit 1071, SWMU Aggregate O-D, Ordnance Impact Areas," March 1994.

## Potential Release Site (PRS) - 19-001

**Location:** TA-74 Site

**Category:** Outfall

**Ten-Year Plan Description:** Buildings/Equipment

**History:** Several structures, including the retreat building, were located at TA-19, which was also known as East Gate Laboratory. PRS 19-001 was a septic system that served a TA-19 structure (retreat building). The septic system consisted of a septic tank and associated inlet and outlet lines. The septic tank and its contents were removed in July 1997. The associated lines of orangeburg (asphaltic fiber) and standpipe were also removed at this time.

**Current Regulatory Status:** This PRS is on the HSWA Permit and was proposed for no further action (NFA) on the basis of human health risk, alone. The New Mexico Environment Department (NMED) has not yet concurred with this recommendation.

**Proposed Remedy:** No additional remedial action is anticipated to be necessary.

**Future Actions Required:** Conduct additional characterization sampling to support a recommendation for integrated NFA. This requires demonstrating that a PRS does not impact human health, the environment, and ground water or surface water quality.

**References:** "RFI Work Plan for OU 1071," Environmental Restoration Project, May 1992, LA-UR-92-810. "RFI Report TA-19, PRSs 19-001, 19-003, and C-19-001," September 1997, LA-UR-97-3791.

## Potential Release Site (PRS) - 19-002

**Location:** TA-74 Site

**Category:** Subsurface Unit

**Ten-Year Plan Description:** Surface/Subsurface Material/Waste

**History:** Several structures, including a battery building, were located at TA-19, which was also known as East Gate Laboratory. PRS 19-002 was a surface disposal site consisting of numerous carbon type dry cell batteries and concrete debris from decommissioned TA-19 structures. Lead, cadmium, copper, manganese, mercury, selenium, and zinc were detected above background levels in surface samples, however the levels detected were all below their respective SALs. In June 1995 the concrete debris and batteries were removed during VCA activities.

**Current Regulatory Status:** This PRS is on the HSWA Permit and was proposed for no further action (NFA) on the basis of human health risk, alone. The New Mexico Environment Department (NMED) has not yet concurred with the recommendation.

**Proposed Remedy:** No additional remedial action is anticipated to be necessary.

**Future Actions Required:** Conduct additional characterization sampling to support a recommendation for integrated NFA. This requires demonstrating that a PRS does not impact human health, the environment, and ground water or surface water quality.

**References:** *"RFI Work Plan for OU 1071,"* Environmental Restoration Project, May 1992, LA-UR-92-810. *"Voluntary Correction Action Completion Report for Potential Release Site 19-002,"* February 1996, LA-UR-96-433.

## Potential Release Site (PRS) - 19-003

**Location:** TA-74 Site

**Category:** Outfall

**Ten-Year Plan Description:** Tanks (Septic, Above Ground)

**History:** PRS 19-003 was a drain line for the latrine that served the TA-19 Laboratory Building. The drain line handled sanitary waste from the laboratory building latrine, and the waste was then discharged to an outfall in Pueblo Canyon. The laboratory was in operation from 1944 to 1966, at which time the building was transferred to the Zia Company for civil defense purposes. The drain line, made of orangeburg pipe (asphaltic fiber), was removed in 1997.

**Current Regulatory Status:** This PRS is on the HSWA Permit and was proposed for no further action (NFA) on the basis of human health risk, alone. The New Mexico Environment Department (NMED) has not yet concurred with this recommendation.

**Proposed Remedy:** No additional remedial action is anticipated to be necessary.

**Future Actions Required:** Conduct additional characterization sampling to support a recommendation for integrated NFA. This requires demonstrating that a PRS does not impact human health, the environment, and ground water or surface water quality.

**References:** "RFI Work Plan for OU 1071," Environmental Restoration Project, May 1992, LA-UR-92-810. "RFI Report TA-19, PRSs 19-001, 19-003, and C-19-001," September 1997, LA-UR-97-3791.

## Potential Release Site (PRS) - C-19-001

**Location:** TA-74 Site

**Category:** Surface Unit

**Ten-Year Plan Description:** Spills and Leaks

**History:** PRS C-19-001 is associated with possible contaminated soil beneath the former structures at TA-19 (East Gate Laboratory). The structures included the laboratory building, retreat building, latrine and guard house. Surface samples were collected during a RFI conducted in March 1997.

**Current Regulatory Status:** This PRS is not on the HSWA Permit and was proposed for no further action (NFA) on the basis of human health risk, alone. The Department of Energy (DOE) has not yet concurred with this recommendation.

**Proposed Remedy:** No additional remedial action is anticipated to be necessary.

**Future Actions Required:** Conduct additional characterization sampling to support a recommendation for integrated NFA. This requires demonstrating that a PRS does not impact human health, the environment, and ground water or surface water quality.

**References:** "RFI Work Plan for OU 1071," Environmental Restoration Project, May 1992, LA-UR-92-810. "RFI Report TA-19, PRSs 19-001, 19-003, and C-19-001," September 1997, LA-UR-97-3791.

**APPENDIX C**

**INFORMATION SOURCES & ESTIMATION METHODOLOGIES**

## INFORMATION SOURCES & ESTIMATION METHODOLOGIES

The information presented in the body of this report was summarized from the ER Conveyance and Transfer (ER-CAT) database (Appendix A), using the data that it contained as of November 25, 1998. The information used to populate this database was taken from the following primary sources:

- The Laboratory's Facility for Information Management, Analysis and Display (FIMAD) data system;
- The Laboratory's Potential Release Site (PRS) database;
- The Laboratory's Environmental Restoration Project's Fiscal Year 1999 baseline budget;
- The Laboratory's D&D Project's Fiscal Year 1999 baseline; and
- The Laboratory's regulatory document and correspondence files.

Each data item from these sources was checked for consistency with other ER Project documents, such as sampling plans, RCRA Facility Investigation (RFI) work plans and reports, voluntary corrective action (VCA) reports, and other reports relevant to the Administrative Authority.

The remainder of Appendix C describes the information contained in the ER-CAT database.

### PRS Parcel Report

The PRS parcel report presents data from the following eleven data fields:

1. **Identification Code – PRS Number.** This number identifies the PRS with a unique identification code.
2. **Location – Technical Area.** This field identifies the LANL Technical Area in which the PRS is located.
3. **Location Coordinate Northing.** This field contains the New Mexico State Plane coordinates for the location of the PRS.
4. **Location Coordinate Easting.** This field contains the New Mexico State Plane coordinates for the location of the PRS.
5. **Type.** This field identifies the type of PRS as one of five categories: surface unit (e.g., contaminated soil, aboveground tank, etc.); subsurface area (e.g., underground storage tank, seepage pits, etc.); incinerators (e.g., incinerators, deposition of air pollutants over a large area, etc.); MDAs (e.g., areas of subsurface disposal of refuse or surplus materials); and outfalls (e.g., septic tanks, drain lines, and surface outfalls). Note that "type", as it appears in the ER-CAT database, does not correlate with "type" as defined in the Ten Year Plan. A cross-walk is possible, however, by referring to the one-page PRS summaries (Appendix B), which describe each PRS by ER-CAT type and by Ten Year Plan type.
6. **Areal Extent (sq. ft.).** This field contains the areal extent of the PRS according to the FIMAD database, and is based on available information to date. For a limited number of PRSs (i.e., those for which data has recently become available, and for which FIMAD has not yet been

updated), the information contained in this field is based on such data and/or best professional judgement.

7. **Regulatory Driver.** This field identifies whether or not the PRS is listed in Module VIII of LANL's RCRA permit.
8. **Regulatory Status.** This field describes the regulatory status of the PRS. Four categories were developed to provide standardized information within this field. These categories are:
  - (a) **Under Investigation.** This description covers any PRS that requires sampling and investigation. PRSs that are considered "under investigation" include, but are not limited to, sites where administrative research has occurred, sites where sampling has occurred or is occurring, sites that have been initially sampled and are addressed further in a soon-to-be-submitted sampling and analysis plan or RFI report, and sites that must be investigated during D&D.
  - (b) **No Further Action (NFA).** This category indicates that the PRS has been proposed by LANL for no further action. The regulatory status is indicated by the following five designations:
    - i) **Proposed for NFA Based on Human Health.** This designation indicates that a PRS has been proposed for NFA based on an acceptable risk to human health.
    - ii) **Proposed for Integrated NFA.** This designation indicates that that PRS has been proposed for NFA based on an acceptable level of risk to human health and ecosystems and compliance with surface water, groundwater, and underground storage tank requirements, as applicable.
    - iii) **NFA Concurrence by DOE.** This designation indicates that a non-HSWA PRS has been proposed for NFA, and DOE – the Administrative Authority for such a PRS – has concurred with the proposal.
    - iv) **NFA Concurrence by EPA.** This designation indicates that a HSWA PRS has been proposed for NFA, and EPA has concurred with the proposal. EPA authorized NMED for the RCRA Corrective Action program in 1996. Since receiving that authorization, NMED has been the AA, and they have reserved the right to revisit all PRSs for which they now have authority.
    - v) **NFA Concurrence by NMED.** This designation indicates that a HSWA PRS has been proposed for NFA, and NMED has concurred with the proposal.
  - (c) **Removed from Permit.** This designation indicates that the PRS has been removed from Module VIII of the RCRA permit.

- (d) **Under Reconsideration.** This designation indicates that LANL is reconsidering any previous proposals or designations regarding the regulatory status of the PRS. The fact that a PRS is under reconsideration does not necessarily mean that the previous proposal (for example, a proposal for NFA based on an acceptable risk to human health) will be changed by LANL; the proposal may remain in effect after it has been reconsidered.
10. **Status of Investigation.** There are four possible categories describing the status of the investigation of a PRS.
- (a) **In Progress.** This designation indicates that the PRS is either under investigation, or has been proposed for NFA based on an acceptable risk to human health, regardless of whether it has received concurrence from the Administrative Authority.
- (b) **Completed.** This designation indicates that the PRS has been proposed and/or approved for an integrated NFA.
- (c) **Remediation.** This designation indicates that the PRS has undergone a Voluntary Corrective Action (VCA), and Expedited Cleanup, or any other remedial action prior to the CMS/CMI process.
- (d) **Interim Action.** This designation indicates that an interim action (IA) has been completed and documented at the PRS. IAs, for the purposes of this category, do not include Best management Practices (BMPs).
11. **COPCs – Has Sampling Occurred.** This field indicates whether sampling has occurred at the PRS.
12. **Schedule for Completion.** This field indicates the year by which remediation is expected to be completed as indicated in the Baseline. This information is available only for those PRSs for which the proposed remedy is included in the Baseline. If the PRS is not included in the Baseline, or the proposed remedy for the PRS differs from the remedy contemplated in the Baseline, the schedule for remediation is to be determined (TBD).

### **Structure Parcel Report**

The Structure Parcel Report reports on the following twelve data fields:

1. **Identification Code – Structure Number.** This number identifies the structure with a unique identification code. This field is populated with all existing structures on the ten potential land transfer parcels. Only a subset of these structures is currently slated for D&D, and these are identified in data field 12.

2. **Location – Technical Area.** This field identifies the Technical Area in which the structure is located.
3. **Location Coordinate Northing.** This field contains the New Mexico State Plane coordinates for the location of the structure.
4. **Location Coordinate Easting.** This field contains the New Mexico State Plane coordinates for the location of the structure.
5. **Location – Parcel Sub-area.** If the parcel has been subdivided, this field identifies the sub-area in which the PRS is located. To date, none of the parcels are subdivided.
6. **Type.** This field identifies the type of structure in terms of the costs of D&D per unit measure. There are six such categories: Type I (\$150/sq.ft), Type II (\$230/sq.ft), Type III (\$342/sq.ft), Type IV (\$471/sq.ft), Type V (\$600/sq.ft), and Type VI (\$2000/sq.ft). The cost of D&D for a structure is influenced by the building's construction materials, its accessibility, and the waste materials (e.g., asbestos, PCB contamination, etc.) believed to exist inside the structure.
7. **Areal Extent (sq. ft).** This field contains the areal extent of the structure according to the FIMAD database.
8. **Regulatory Driver.** This field indicates whether the structure is regulated under DOE Order 5400.5, which directs the D&D process. For a structure to fall within this category it must first contain residual contamination, and must also be surplus.
9. **Regulatory Status.** This field describes the regulatory status of the structure. Three categories are used to provide standardized information in this field. They are:
  - (a) **No Completion Report.** This description covers any structure that requires some sampling or investigation prior to decommissioning.
  - (b) **Completion Report Submitted.** This category indicates that D&D activities are complete.
  - (c) **Completion Report Submitted and Approved.** This category indicates that DOE has accepted the determination that D&D activities are complete for a given structure.
10. **Status of Investigation.** There are eight categories describing the status of D&D efforts for each structure.
  - (a) **Not on Surplus List.** This designation indicates that a structure is not on LANL's list of surplus buildings.

- (b) **In Baseline.** This designation indicates that a structure is slated for D&D by FY 2007. If a structure is in the baseline, it has been surplussed and is known to be contaminated.
  - (c) **Draft Management Plan Complete.** This designation indicates that D&D planning activities have begun.
  - (d) **Final Management Plan Complete.** This designation indicates that D&D planning activities are complete.
  - (e) **Characterization in Progress.** This designation indicates that pre-D&D field work is underway.
  - (f) **D&D in Progress.** This designation indicates that D&D field activities are underway.
  - (g) **D&D Complete.** This designation indicates that D&D field activities are complete.
  - (h) **Final Report Approved.** This designation indicates that DOE concurs with the determination that D&D is complete.
11. **COPCs – Has Sampling Occurred.** This field indicates whether sampling has occurred at the structure. Sampling is typically conducted at D&D structures no earlier than the characterization and field work stages.
12. **D&D Facility.** This field indicates whether or not a structure is included in the current D&D baseline.

### **PRS Reports for Land Use Scenarios**

These reports identify the potential land use scenarios for each PRS as identified in the DOE's Conveyance and Transfer (C&T) Environmental Impact Statement (EIS). Although the LANL ER Project has historically based its remedies on a single land use scenario, the EIS requires remediation information for up to two land use scenarios per tract. Where the EIS suggests only one land use scenario for a tract, the second PRS Report for Land Use Scenarios will contain the designation "not applicable" as a heading and the date fields will be empty.

The PRS Land Use Scenario Reports each contain six categories. Each of these categories is discussed in more detail below.

13. **Identification Code – PRS Number.** This number identifies the PRS by its unique identification code.
14. **Proposed Remedy.** This field describes the remedial measure that is proposed for the PRS under the prescribed land use scenario. The five potential remedies are as follows:

- (a) **No Action.** This designation indicates that no remedial action is proposed for the PRS. It is likely, however, that characterization sampling and reporting will have to be conducted to support the recommendation for no action.
  - (b) **Removal.** This designation indicates that the contaminated materials are proposed to be removed from the site.
  - (c) **In Situ Treatment.** This designation indicates that the contaminated materials are proposed to be treated on site.
  - (d) **In Situ Containment.** This designation indicates that the contaminated materials are proposed to be contained on site (for example, with an engineered cap).
  - (e) **Aggregate With Another PRS in Database.** This designation indicates that the PRS has been aggregated with another PRS for the purposes of remediation.
15. **Expected Volume of Contaminated Materials (cu. Yds).** This field provides an estimate of the volume of contaminated materials expected to be removed from the PRS as a result of remediation based on the best available information. This estimate is divided into the following waste treatability groups:
- (a) **Solid Waste.** Wastes including the following sub-categories:
    - (i) **Industrial Waste.** Waste not regulated as hazardous waste or New Mexico Special Waste but material not eligible for consideration as clean fill.
    - (ii) **New Mexico Special Waste.** Waste regulated by the New Mexico Solid Waste Regulations, Subpart VII, "Special Waste Requirements".
  - (b) **Hazardous Waste.** Wastes including the following sub-categories:
    - (i) **RCRA Hazardous Waste (RCRA).** Waste regulated by the Resource Conservation and Recovery Act (RCRA) as defined by 40 CFR 261. Includes wastes that are characteristically hazardous for toxic constituents, and compounds and processes specifically listed in 40 CFR 261.
    - (ii) **Hazardous/Polychlorinated Biphenyl.** Waste regulated by the Resource Conservation and Recovery Act (RCRA) and containing polychlorinated biphenyls (PCBs) in quantities or from sources regulated by the Toxic Substances Control Act (TSCA).

- (c) **Low-Level Radioactive (LLW).** Waste containing added radioactive material, not otherwise defined as TRU or TRU-mixed.
  - (d) **Mixed Low-Level Radioactive Waste.** Waste containing added radioactive material not otherwise defined as TRU or TRU-mixed, and contains substances regulated by RCRA.
  - (e) **Polychlorinated Biphenyl (PCB).** Waste containing polychlorinated biphenyls (PCBs) in quantities or from sources regulated by the Toxic Substances Control Act (TSCA).
  - (f) **Mixed Low-Level Radioactive Waste/Polychlorinated Biphenyl.** Waste containing added radioactive material not otherwise defined as TRU or TRU-mixed, and containing substances regulated by RCRA, and containing polychlorinated biphenyls (PCBs) in quantities or from sources regulated by TSCA.
  - (g) **Transuranic Radioactive Waste (TRU).** Waste containing radioactive materials with atomic masses greater than uranium, and in concentrations greater than 100 nanocuries per gram (nCi/g). (Note: Transuranic Mixed Radioactive Waste (TRU-mixed) is not anticipated to be found. If information becomes available in the future to suggest that this waste category does exist, then it will be identified separately in the database. Transuranic mixed radioactive waste is defined as waste containing radioactive materials with atomic masses of greater than uranium, and in concentrations greater than 100 nCi/g, and contains substances regulated by RCRA).
  - (h) **Asbestos Waste.** Waste containing regulated quantities of asbestos as regulated by the Toxic Substances Control Act (TSCA).
16. **Estimated Cost.** This field provides an estimate of the cost associated with the proposed remedy based on the best available information. This estimate may be modified as more and better information becomes available.
17. **Baseline Scope.** This field indicates whether the PRS and/or the proposed remedy for that PRS is included in the FY 99 ER Project baseline. Baseline scope may be described using any of the following three categories:
- (a) **PRS/Remedy In.** This designation indicates that both the PRS and the remedy proposed for that PRS are included in the FY 99 Baseline.
  - (b) **PRS In/Remedy Different.** This designation indicates that although the PRS is included in the FY 99 ER Project Baseline,

the proposed remedy for that PRS either is different from the remedy contemplated in the Baseline or is not included in the Baseline.

- (c) **PRS Out.** This designation indicates that the PRS is not included in the baseline.

18. This field indicates whether or not the costs for remediating the PRS have been aggregated with another PRS. If the costs have been aggregated with another PRS, the number of that "primary" PRS is indicated.

### **Structure Reports for Land Use Scenarios**

These reports identify the potential land use scenarios for each parcel as identified in the DOE's Conveyance and Transfer (C&T) Environmental Impact Statement (EIS). The proposed remedy for structures, regardless of land use, is D&D; therefore, the structure reports will be identical, regardless of land use scenario. Where the EIS has identified only one land use scenario for a tract, the Structure Report for Land Use Scenario 2 will contain the designation "Not Applicable" as a heading and the data fields will be empty.

The Structure Report for Land Use Scenarios contains six categories. Each of these categories is discussed in more detail below.

1. **Structure Number.** This number identifies the structure by its unique identification code.
2. **Proposed remedy.** This field describes the remedial measure that is proposed for the structure. There is only one remedial alternative for D&D structures – decommissioning, which is defined as the demolition of a structure. If no remediation is planned (i.e., for structures not currently in the D&D baseline, then the proposed remedy is "none".
3. **Expected Volume of Contaminated Materials (cu. Yds).** This field provides an estimate of the volume of contaminated materials expected to be removed from a structure as a result of D&D, and it is based on the best available information. This estimate is divided into the same waste treatability groups as for PRSs (see above).
4. **Estimated Cost.** This field provides an estimate of the cost associated with D&D based on the best available information. Costs are estimated for all structures, regardless of whether or not they are currently in the D&D Baseline. The estimate may be modified as more or better information becomes available and as the structure goes through the characterization process.
5. **Baseline Scope.** This field indicates whether the D&D of a structure is or is not contained in the Baseline for FY 99 and out years.

6. **Schedule for Decommissioning (from Baseline).** This field indicates the year by which decommissioning is expected to be completed, as indicated in the Baseline.