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12-AMRC-0044

DEC 09 2011

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Addressees:

TRANSMITTAL OF THE 100-F/IU-2/IU-6 AREA – SEGMENT 4 ORPHAN SITES EVALUATION REPORT, OSR-2011-0001, REVISION 0

Attached for your use is the "100-F/IU-2/IU-6 Area – Segment 4 Orphan Sites Evaluation Report," OSR-2011-0001, Revision 0. If you have questions, please contact me or your staff may contact Jamie Zeisloft, of my staff, on (509) 372-0188.

Sincerely,

Mark S. French

Mark S. French, Federal Project Director
for the River Corridor Closure Project

AMRC:JHZ

Attachment was entered all as one with letter

cc w/attach: (See page 2)

cc w/attach:
A. Boyd, Ecology
C. Guzetti, EPA
Administrative Record, H6-08

cc w/o attach:
C. S. Cearlock, WCH
J. E. Lerch, WCH

OSR-2011-0001
Rev. 0

100-F/IU-2/IU-6 Area – Segment 4 Orphan Sites Evaluation Report

Prepared for the U.S. Department of Energy by Washington Closure Hanford

November 2011

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STANDARD APPROVAL PAGE

Title: 100-F/IU-2/IU-6 Area - Segment 4 Orphan Sites Evaluation Report

Author Name: C. S. Cearlock, Mission Completion

Approval: J. A. Lerch, Mission Completion

Signature _____ Date 12/2/2011

The approval signatures on this page indicate that this document has been authorized for information release to the public through appropriate channels. No other forms or signatures are required to document this information release.

TABLE OF CONTENTS

APPENDIX

FIGURES

TABLES

ACRONYMS AND ABBREVIATIONS

2D	two-dimensional
3D	three-dimensional
AM	action memorandum
Bgs	below ground surface
CERCLA	*Comprehensive Environmental Response, Compensation, and Liability Act of 1980*
CHPRC	CH2M HILL Plateau Remediation Company
CIR	color infrared
DEM	digital elevation model
DOE	U.S. Department of Energy
Ecology	Washington State Department of Ecology
EPA	U.S. Environmental Protection Agency
ESD	Explanation of Significant Difference
GIS	Geographical Information System
GPR	ground-penetrating radar
GPS	global positioning system
LiDAR	Light Detection and Ranging
LSCC	lead-sheathed communication cable
MSA	Mission Support Alliance
NSTF	Near-Surface Test Facility
OU	operable unit
PVC	polyvinyl chloride
RCCC	River Corridor Closure Contract
RL	U.S. Department of Energy, Richland Operations Office
ROD	record of decision
SIS	Stewardship Information System
Tri-Party Agreement	*Hanford Federal Facility Agreement and Consent Order*
WCH	Washington Closure Hanford
WIDS	Waste Information Data System

1.0 INTRODUCTION

The orphan sites evaluation process is a systematic approach used to review land parcels and identify potential waste sites in the River Corridor that are not currently listed in existing *Comprehensive Environmental Response, Compensation, and Liability Act of 1980* (CERCLA) decision documents (records of decision [RODs] or, in some limited situations, action memoranda [AMs]). Evaluations are performed within the baseline scope of the River Corridor Closure Contract (RCCC) and consist of comprehensive reviews of historical documentation including, but not limited to, documents, drawings, maps, photographs, field investigations, and geophysical surveys. Orphan sites evaluations have or will be conducted within each reactor/operational area in the River Corridor and within the remaining nonoperational areas of the River Corridor geographical area (referred to as the "100-F/IU-2/IU-6 segments") as depicted in Figure 1-1. Evaluation results are reviewed with the U.S. Department of Energy (DOE), Richland Operations Office (RL) and the lead regulatory agency (U.S. Environmental Protection Agency [EPA] or Washington State Department of Ecology [Ecology]), and subsequently summarized in an orphan sites evaluation report.

New waste sites classified as "accepted" through the TPA-MP-14 process (RL-TPA-90-0001), and similar to those addressed in the existing 100 Area Remaining Sites Interim Action RODs (EPA 1999), qualify for the "plug-in" approach to the confirmatory sampling process and/or remove/treat/dispose cleanup action because remedial action is needed. The EPA 2009 Explanation of Significant Differences (ESD) (EPA 2009) established a process for use of annual fact sheets in lieu of ESDs to document future remediation of waste sites or candidate sites under the Remaining Sites ROD. If new waste sites are "accepted" but are not appropriate for a "plug-in" approach, a separate regulatory decision document will need to be developed and issued to authorize any remedial actions.

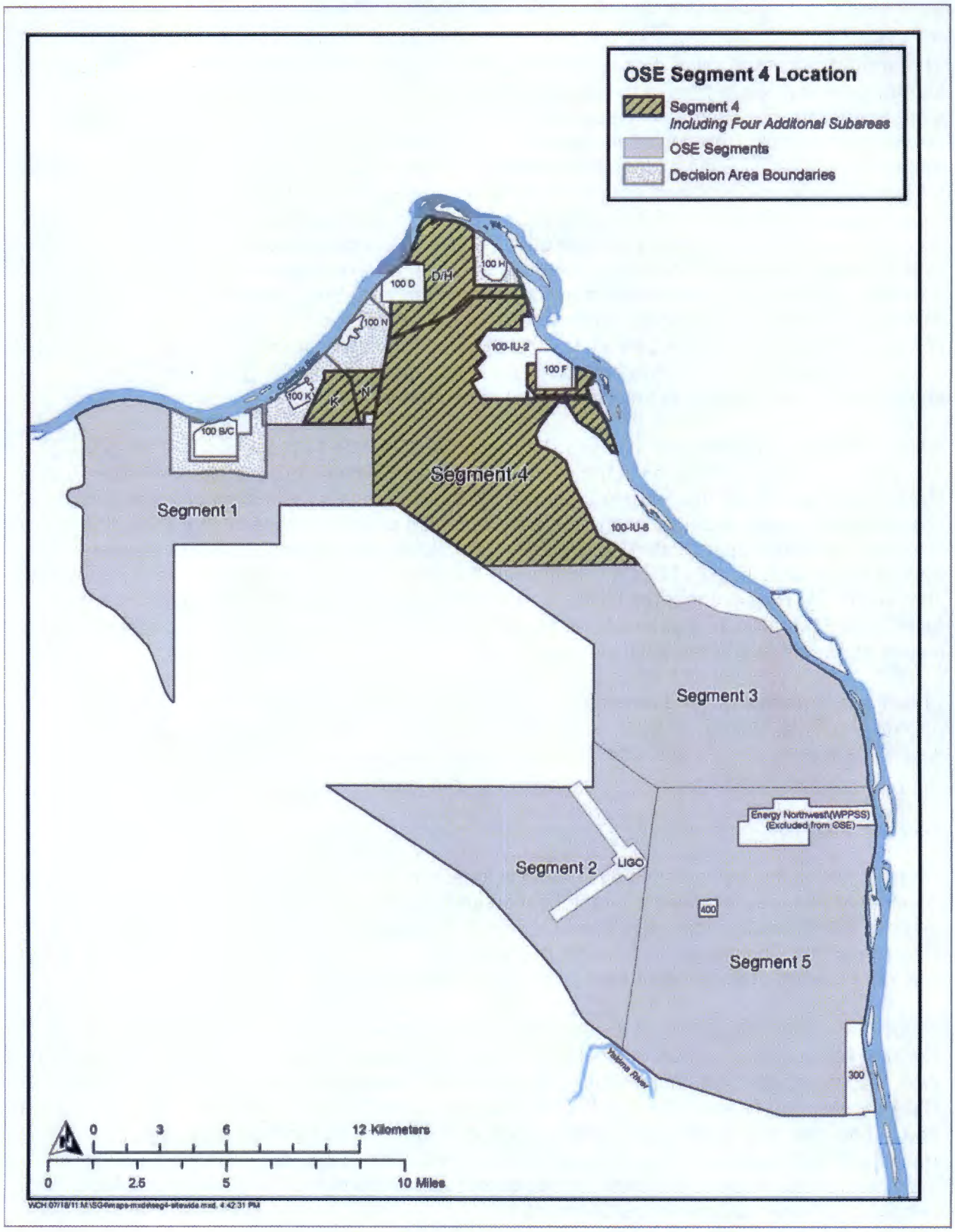
In addition, orphan sites and areas of concern are documented in the Hanford Site Waste Information Data System (WIDS), which is the official repository for documenting the life cycle of waste management units and other areas of concern on the Hanford Site.

1.1 PURPOSE

The purpose of the orphan sites evaluation is to increase confidence that all known waste disposal or releases requiring characterization and cleanup within a given land parcel of the Hanford Site River Corridor have been identified. Information collected through conducting the evaluations also supports elements of the CERCLA 120(h)(4) requirements for review and identification of uncontaminated property at federal facilities.

In 2007, the River Corridor was divided into six geographic areas, commonly referred to as decision areas, to support six final RODs. Each of the areas encompasses reactor areas and their associated operable units (OUs). These include the 100-B/C Area, 100-K Area, 100-D and 100-H Areas, 100-N Area, the 100-F/IU-2/IU-6 Area, and 300 Area. The 100-F/IU-2/IU-6 Area was subdivided into five sub-areas, referred to as segments, to facilitate planning and implementation because of the large size of this area. This report summarizes the approach used and results obtained from the orphan sites evaluations of the 100-F/IU-2/IU-6 Area, Segment 4 (herein referred to as Segment 4).

Figure 1-1. Location of Segment 4 in the River Corridor.



The Segment 4 area included additional sub-areas for the purpose of aligning with the geographic-based decision areas (see Figure 1-1). This ensured that areas previously not covered as part of the reactor/operational area orphan sites evaluations and included as part of the larger decision areas were covered as part of the Segment 4 orphan sites evaluation. The Segment 4 and four additional sub-areas are as follows with a brief description of the coverage area and the lead regulatory agency:

- Segment 4 – This is the largest of the sub-areas and is bordered by Route 4N to the west, Route 2N to the north, Route 11A to the south, and the Columbia River to the east. The EPA is the lead regulatory agency.

- Segment 4 (100-D/H) – This sub-area covers land north of Route 2N between the 100-D and 100-H Areas and includes the "horn" area. Ecology is the lead regulatory agency.

- Segment 4 (100-K) – This sub-area covers the southeast portion of the 100-K decision area. The EPA is the lead regulatory agency.

- Segment 4 (100-N) – This sub-area covers the southern portion of the 100-N decision area. Ecology is the lead regulatory agency.

- Segment 4 (100-F) – This sub-area covers a narrow band of land between the reactor area and the decision area to the west, east, and south. The EPA is the lead regulatory agency.

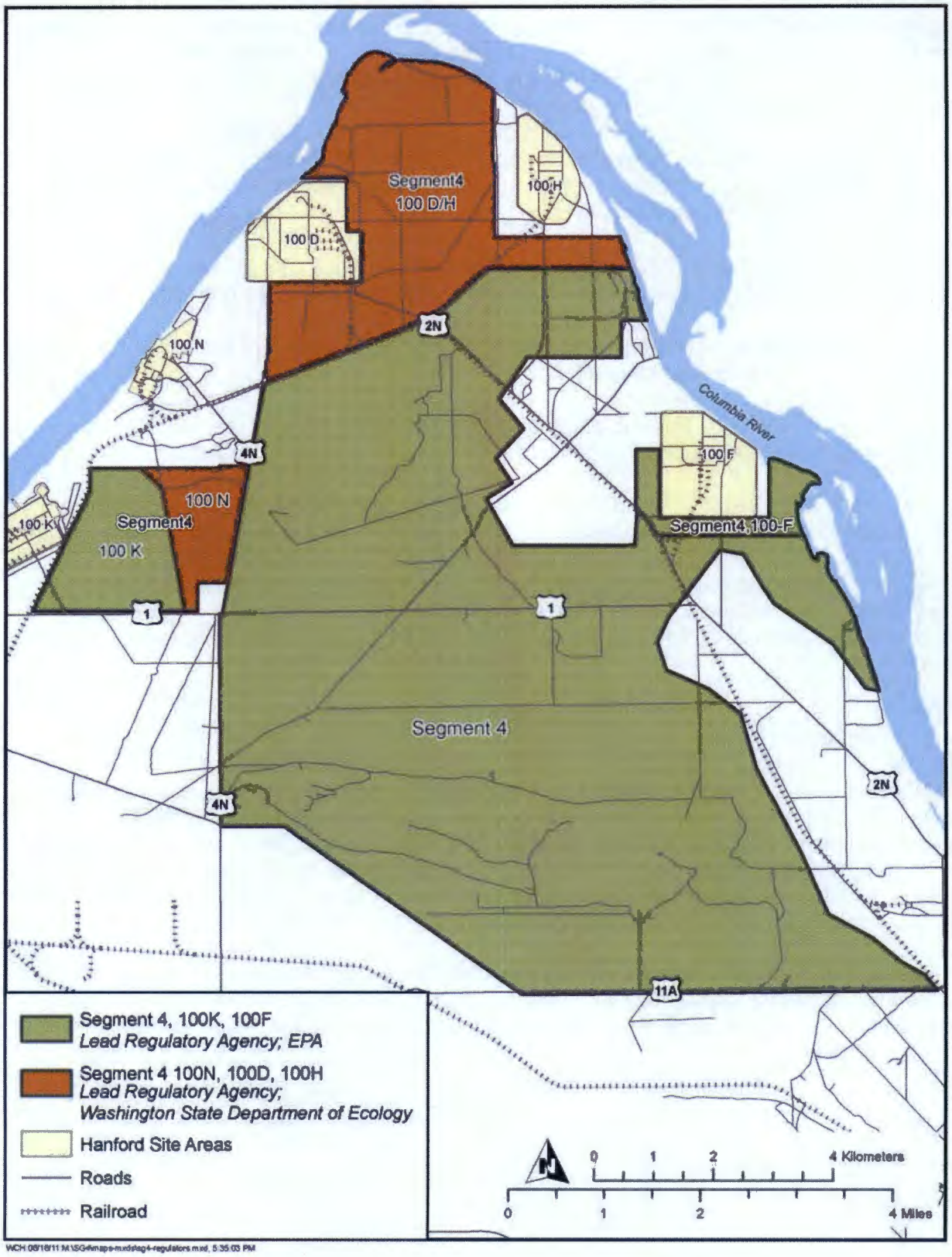
The evaluations were conducted in two phases. The first phase was conducted beginning in September 2008 and included the Segment 4 (100-F) sub-area. The second phase was conducted between July 2010 and January 2011 and included the remaining four Segment 4 sub-areas.

1.2 SCOPE

The scope of an orphan sites evaluation includes conducting a historical review and a field investigation, briefings with RL, EPA, Ecology and issuance of this summary report. Characterization, waste excavation, removal, disposal, and site closeout are excluded from the orphan sites evaluation scope of work. For orphan sites identified during the evaluation, it is anticipated that subsequent characterization and/or remedial action activities will be performed by Washington Closure Hanford (WCH) following addition of the work scope to the RCCC.

The scope of this report includes only Segment 4 (Figure 1-2). As discussed above, the orphan sites evaluations and associated summary reports for some segments may also integrate portions of adjacent decision areas not addressed in the previous orphan sites evaluations.

Figure 1-2. Segment 4 Coverage Area.



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The coverage for the Segment 4 orphan sites evaluation includes four sub-areas with the following approximate hectares (acres):

- Segment 4 – 8,166 ha (20,180 ac)
- Segment 4 (100-D/H) – 1,350 ha (3,337 ac)
- Segment 4 (100-K) – 421 ha (1,041 ac)
- Segment 4 (100-N) – 236 ha (585 ac)
- Segment 4 (100-F) – 173 ha (428 ac).

1.3 KEY TERMS AND DEFINITIONS

100-F/IU-2/IU-6 Area Segments: The portion of the **River Corridor** that excludes the **reactor/operational areas**. The five segments consist of more than 47,774 ha (118,000 ac).

Field Investigation: A subtask of the **orphan sites evaluation** process that involves a systematic visual inspection of manmade surface features, items, or activity areas within a defined area of the **River Corridor** to identify **potential orphan sites** and capture **miscellaneous restoration** items and **stewardship elements** that are observed. The field investigation also includes **geophysical surveys** of selected areas based on field observations or information from the **historical review** subtask.

Geographical Information System (GIS) Database: A spatial database of points, lines, and polygons with descriptive attributes organized by themes (e.g., facilities, waste site boundaries, operable units, electrical lines, sewer lines, roadways, railways, groundwater wells).

Historical Review: A subtask of the **orphan sites evaluation** process that involves review of **historical documents** for building and land use, potential release, and current physical condition to identify **potential orphan sites** and focus areas for **field investigation** activities.

Miscellaneous Restoration: An RCCC scope element that includes removing abandoned railroad lines, abandoned above-grade utilities, surface debris such as concrete, and abandoned fences that are not otherwise addressed by the CERCLA decision documents and which are considered contaminated or potentially contaminated with CERCLA hazardous substances. All below-ground debris and structures are excluded from the miscellaneous restoration scope. Miscellaneous restoration also excludes deminimis volumes of non-CERCLA debris (small scattered nonhazardous surface debris).

No Further Evaluation (NFE): A feature that was discovered during the orphan sites evaluation process (e.g., orthophotography analysis) that might be an orphan site but after further investigation (e.g., being field verified) was determined not to be a man-made feature (e.g., boulder or vegetation), or it was wind-blown debris. This definition also includes never constructed historical features and features covered by other non-CERCLA regulatory requirements (e.g., septic tanks, and underground injection control wells).

Orphan Site: Man-made features, items, or activity areas within the **River Corridor** that (1) meet the *Hanford Federal Facility Agreement and Consent Order* (Tri-Party Agreement) (Ecology et al. 1989) **TPA-MP-14** criteria for waste site identification (RL-TPA-90-0001), (2) are not identified for characterization or cleanup within the existing CERCLA decision documents (RODs or AMs), and (3) have been presented to and accepted by RL and EPA through the **orphan sites evaluation** process.

Orphan Sites Evaluation: A systematic approach involving **historical review** and **field investigation** activities to identify new source unit waste sites within the **River Corridor** that are not identified for characterization or cleanup within the existing CERCLA decision documents (RODs or AMs). Results of each orphan sites evaluation are presented in a summary report including a description of the process and a listing of identified **orphan sites**. Listings of **miscellaneous restoration** items and **stewardship** elements that are captured during the course of the evaluation are also included in the summary report. Orphan sites evaluations are performed for the **reactor/operational areas** and for the **100-F/IU-2/IU-6 Area segments** of the **River Corridor**.

Physical Hazard: A man-made feature that requires immediate attention (e.g., active subsidence, open wells/cisterns, open basement foundation) based on **field investigation** observations and best professional judgment. When identified, location and description are communicated to the safety project personnel to address.

Potential Orphan Site: Man-made features, items, or activity areas identified within the **River Corridor** during the historical review or field investigation activities that are evaluated because they have the potential to meet the criteria for an **orphan site**.

Reactor/Operational Areas: The primary activity areas within the **River Corridor** that supported the Hanford Manhattan Project and subsequent Hanford Cold War era. An **orphan sites evaluation** is conducted for each identified reactor/operational area including the 100-B/C, 100-D, 100-F, 100-H, 100-K, 100-N, 100-IU-2, 100-IU-6, 300, and 400 Areas. Collectively, the reactor/operational areas consist of approximately 6,880 ha (17,000 ac).

River Corridor: A portion of the Hanford Site that is defined by the RCCC. The River Corridor is more than 56,296 ha (139,000 ac) in size and is bounded on one side by the Columbia River. For the purpose of conducting **orphan sites evaluations**, the River Corridor is subdivided into **reactor/operational areas** and **100-F/IU-2/IU-6 Area segments.**

Stewardship Elements: Man-made features, items, or activity areas within the **River Corridor** that (1) do not meet the Tri-Party Agreement TPA-MP-14 criteria for waste site identification (RL-TPA-90-0001), (2) are not part of **miscellaneous restoration** scope, and (3) are anticipated to remain after completion of the RCCC. Examples may include, but are not limited to, groundwater wells, building foundations, and physical hazards. Stewardship elements also include unsubstantiated historical research artifacts that were investigated.

Stewardship Information System (SIS): A WCH relational database consisting of three components: waste sites, facilities, and **orphan sites evaluations**. The SIS is a primary resource to capture information gathered through the **orphan sites evaluations**.

TPA-MP-14 ("Maintenance of the Waste Information Data System"): A procedure for documenting the life-cycle of waste management units and other areas of concern on the Hanford Site. The procedure establishes responsibilities and the process required to maintain and update waste site information contained in WIDS.

Waste Information Data System (WIDS): An electronic database of waste site information for the Hanford Site. The database identifies waste management units on the Hanford Site, describes the current status of each unit, and includes other descriptive information.

2.0 ORPHAN SITES EVALUATION PROCESS OVERVIEW

In contrast to reactor/operational areas, the 100-F/IU-2/IU-6 Area segments have no known or limited Hanford Site-related or Manhattan Project-defined areas where past operations occurred such as anti-aircraft batteries and encampments. There are no documented or organized waste burial practices, limited below-grade engineered systems and underground piping, and no liquid disposal areas (e.g., ponds and retention basins) in the 100-F/IU-2/IU-6 segments. Therefore, it was anticipated that this portion of the River Corridor would have no, or very few, previously unidentified waste disposal areas.

Because of the low potential for previously unidentified waste disposal sites in the 100-F/IU-2/IU-6 segments, the size differential when compared to former operational areas, and the general scarcity of existing data, an evaluation was conducted in 2007 to screen potential technologies and develop a proposed approach/optimized design for conducting an orphan sites evaluation in the segment portion of the River Corridor. This evaluation is documented in WCH-165, *Technology Screening and Optimized Design for Inter-Areas Orphan Site Evaluation.*

Given the unique aspects of the 100-F/IU-2/IU-6 Area segments, the five-step process for conducting orphan sites evaluations was still deemed appropriate for achieving project objectives for the 100-F/IU-2/IU-6 Area segments. However, because of the relatively sparse operational data anticipated to be available for these areas, a main focus of the orphan sites evaluation conducted in the 100-F/IU-2/IU-6 segments would be to identify "activity areas" that are indicative of potential past disturbance and may be associated with past Hanford Site operational activities.

2.1 ORPHAN SITES EVALUATION METHODOLOGY

This section presents a summary of standard orphan sites evaluation work breakdown structure and deliverables. For the purpose of executing the work scope, each orphan sites evaluation has been organized into the following subtasks:

- Historical review
- Field investigation
- Gap analysis
- Integration
- Summary report.

The general scope of each subtask as it applies to the 100-F/IU-2/IU-6 Area orphan sites evaluations performed for each of the 100-F/IU-2/IU-6 segments are summarized in Table 2-1.

Table 2-1. Orphan Sites Evaluation Subtask Summary.

Subtask	Scope
Historical Review (Sections 4.0 and 5.0)	Review historical information (e.g., documents, photographs, drawings, geophysical surveys) associated with facilities, piping systems, operational processes, and waste sites to identify potential orphan sites and target areas for field investigation. Review 2008 aerial photography and LiDAR data to identify potential areas of interest.
Field Investigation (Section 6.0)	Conduct systematic foot-based land survey of the high potential areas to document potential orphan sites (field-based observation). Conduct field investigation and road surveys to follow up on potential orphan sites identified from historical review, identify miscellaneous restoration items observed, and identify stewardship elements observed. Geophysical surveys also may be conducted in target areas as part of the field investigation.
Gap Analysis	Identify and prioritize any information gaps after completion of historical review and field investigation subtasks. Conduct follow-up in identified areas to address information gaps to the extent possible. This subtask may include supplemental historical review and/or field investigation activities as needed.
Integration (Section 7.0)	Prepare draft lists of and initial grouping of potential orphan sites, miscellaneous restoration items, and stewardship elements. Conduct briefings of evaluation results with WCH field remediation project, RL, and the lead regulator. Establish final list of new orphan sites and complete writeup/database entry for orphan sites, miscellaneous restoration items, and stewardship elements. Complete the Discovery Site Checklists for identified sites.
Summary Report (this report)	Develop a report to summarize results from each orphan site evaluation conducted and issue to RL (RCCC contract deliverable C.2.10).

LiDAR = Light Detection and Ranging
RCCC = River Corridor Closure Contract
RL = U.S. Department of Energy, Richland Operations Office
WCH = Washington Closure Hanford

2.2 EXCLUSIONS

The following exclusions apply to orphan sites evaluations conducted to support the RCCC.

- Characterization (other than geophysical surveys), waste excavation, removal, disposal, and site closeout are excluded in the orphan sites evaluation scope of work. For orphan sites identified during the evaluation, these activities will be performed following modifications to the RCCC to add the appropriate work scope.

- Known or existing waste sites are excluded from the evaluations. This includes waste sites that are scheduled for characterization or cleanup, waste sites that are undergoing cleanup during evaluation, waste sites where cleanup (i.e., excavation, backfill, and/or revegetation) has been completed prior to evaluation, and waste sites that have been reclassified as no action or rejected. Surface debris located on these known or existing waste sites may be documented as part of this evaluation.

- Islands and the Columbia River (below the ordinary high-water mark) are normally excluded from the evaluations.

- General trash/garbage and small isolated pieces of debris are scattered throughout the Hanford Site and will not be recorded as part of the evaluations.

- Railroad lines and utility poles are excluded from consideration as an orphan site. These items will be addressed by the miscellaneous restoration requirement of the RCCC.

- Active temporary construction (e.g., remedial action construction trailers) is excluded from the evaluations.

- Several areas within the RCCC boundary will be excluded from evaluation under the segment orphan sites evaluation and include the following:

  - Laser Interferom Gravitational-Wave Observatory

  - Hazardous Material Management and Emergency Response Training Center and associated training area

  - Energy Northwest, Inc.

  - Other unique land parcels being managed by other government agencies (e.g., sand dunes).

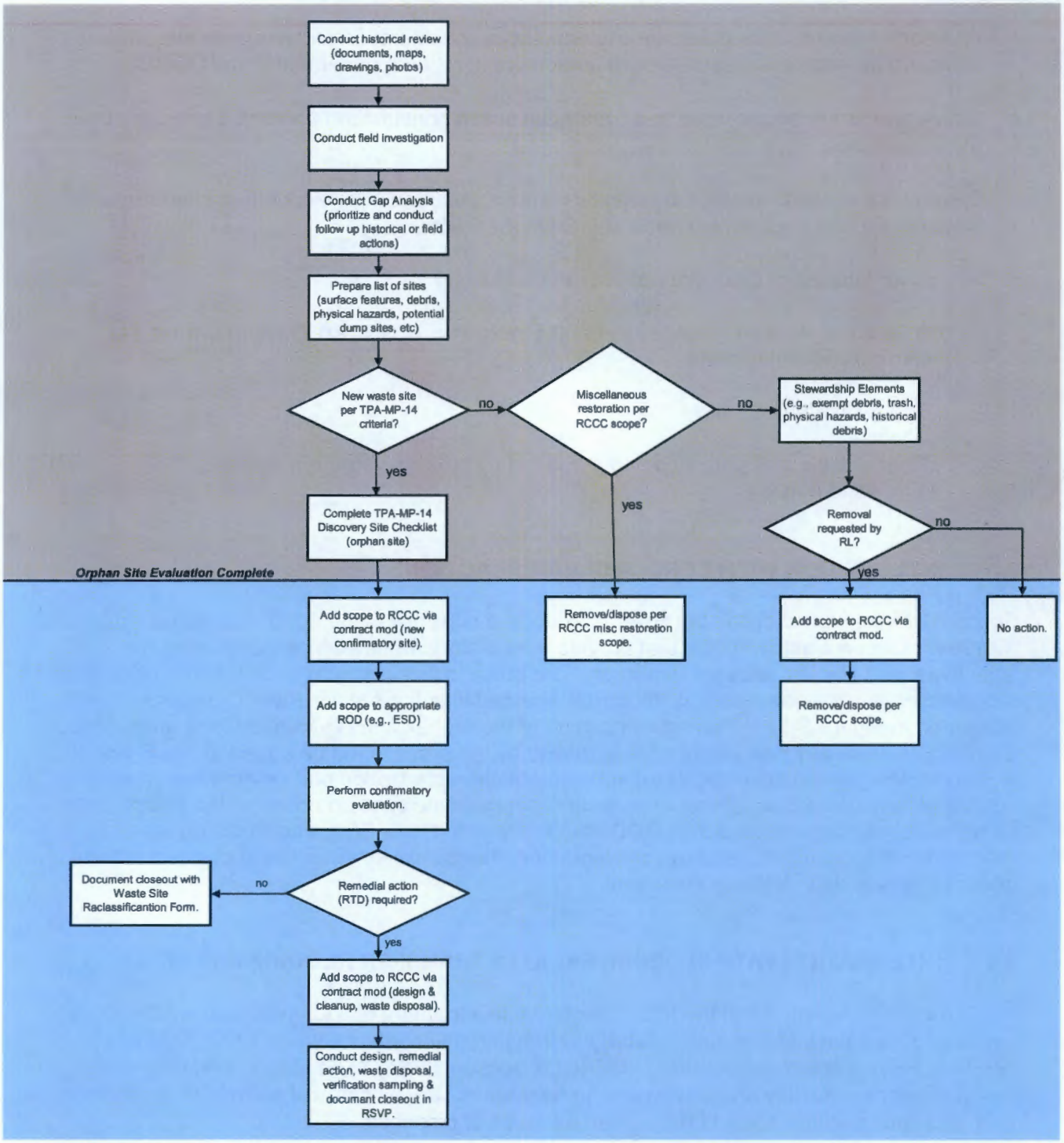
2.3 INTEGRATION WITH CERCLA CLEANUP ACTIONS

Source OU cleanup actions in the River Corridor are currently being performed in accordance with several interim action RODs that provide a regulatory framework, establish cleanup objectives, and identify selected remedies. The process flow and approach for integrating the orphan sites evaluations results with CERCLA remedial actions in the River Corridor is presented in Figure 2-1. Following completion of the orphan sites evaluation for a given area, it is anticipated that any new waste sites identified by the process will be added to WIDS and to an appropriate interim action ROD for subsequent characterization and determination for additional remedial action. If one or more of the new waste sites do not meet the criteria to be added to an existing interim action ROD, the Tri-Parties (DOE, EPA, and Ecology) will determine an approach to establish the regulatory framework for selection of cleanup actions under an appropriate decision document.

2.4 INTEGRATION WITH FEDERAL FACILITY TRANSFER REQUIREMENTS

Section C.2.11, Activity 11 of the RCCC requires development of a long-term stewardship plan containing a proposed finding of suitability to transfer in accordance with CERCLA 120(h) (WCH-2, *Project Management Plan*). CERCLA Section 120(h)(4) establishes requirements for identifying federal facility property where no hazardous substances and petroleum products or their derivatives were known to have been released or disposed.

Figure 2-1. Process for Integration of Orphan Sites Evaluation Results with CERCLA Cleanup Actions.



CERCLA = *Comprehensive Environmental Response, Compensation, and Liability Act of 1980*
ESD = explanation of significant differences
RCCC = River Corridor Closure Contract
RL = U.S. Department of Energy, Richland Operations Office
ROD = record of decision
RSVP = remaining sites verification package
RTD = remove, treat, and dispose

Review of the following types of information associated with current and previous uses of the property are identified in CERCLA Section 120(h)(4):

- A detailed search of federal government records pertaining to the property
- Recorded chain-of-title documents regarding the real property
- Aerial photographs that may reflect prior uses of the real property and that are reasonably obtainable through state or local government agencies
- A visual inspection of the real property and any buildings, structures, equipment, pipe, pipeline, or other improvements on the real property, and a visual inspection of properties immediately adjacent to the real property
- A physical inspection of property adjacent to the real property, to the extent permitted by owners or operators of such property
- Reasonably obtainable federal, state, and local government records of each adjacent facility where there has been a release of any hazardous substance or any petroleum product or its derivatives (e.g., aviation fuel and motor oil), and which is likely to cause or contribute to a release or threatened release of any hazardous substance or any petroleum product or its derivatives (e.g., aviation fuel and motor oil), on the real property
- Interviews with current or former employees involved in operations on the real property.

Identification also can be based on sampling, if appropriate under the circumstances. For property that is part of a federal facility on the National Priorities List (e.g., the Hanford Site), the identification of uncontaminated properties is not complete until the EPA administrator (or his designee) concurs with the results.

These requirements are consistent with the investigations conducted through the orphan sites evaluation process. Where indicators exist to suggest a potential for release or disposal of hazardous substances, a conservative decision is made to identify a new orphan site. Orphan sites are subsequently investigated and characterized through sampling conducted in accordance with a regulator-approved sample design to determine if remedial actions are warranted.

2.5 INFORMATION MANAGEMENT

The SIS is an Oracle® database created by WCH for the specific purpose of supporting transition from cleanup to long-term stewardship in the River Corridor. Information generated during the process of conducting orphan sites evaluations is captured within facilities, waste sites, and orphan sites evaluation components of the SIS database. The WCH GIS database contains spatial information (e.g., shape and point data) generated from the evaluations and integrates with the SIS database.

® Oracle is a registered trademark of Oracle Corporation and/or its affiliates.

For sites identified as orphans (new discovery sites), information is also provided to the current WIDS administrator for inclusion into the official Hanford Site WIDS database.

3.0 SEGMENT 4 OVERVIEW

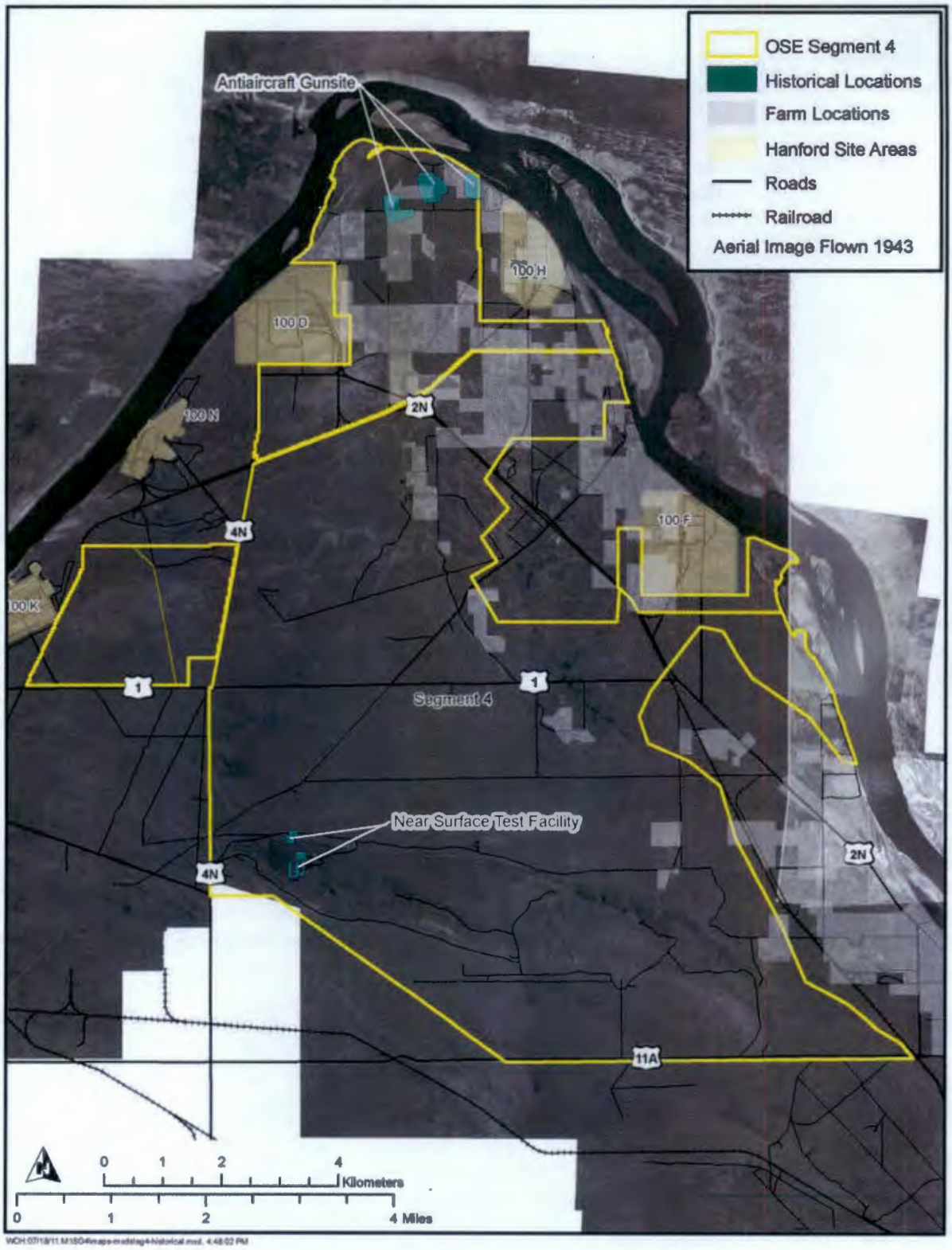
The Segment 4 area, as previously described, is part of the 100-F/IU-2/IU-6 geographical area within the River Corridor. Historical activities that occurred within this area prior to 1943 (pre-Hanford) consisted of farming that was mainly confined to the land between 100-D/DR and 100-H Areas, as wells as land surrounding the 100-F Area and the former town of White Bluffs (100-IU-2). Railroad features were also located in Segment 4 prior to 1943, which included the Chicago-Milwaukee-St. Paul rail line. Additional railroad features were constructed in Segment 4 after 1943 to support Hanford Site operations.

Segment 4 also contains three undocumented areas of military activity (probable antiaircraft gun sites) between the 100-D and 100-H Areas, as indicated in 1957 imagery and verified during the field investigation. Existing information and maps for Hanford Site military activities do not identify the three suspect anti-aircraft gun sites. Figure 3-1 shows an overview map of these historical activities.

Unlike other 100-F/IU-2/IU-6 Areas, Segment 4 contained a limited number of features associated with known Hanford operations. The Gable Mountain area was the site of the former Near-Surface Test Facility (NSTF), which was part of a program initiated in 1968 to assess the feasibility of storing Hanford Site defense waste in deep caverns constructed in basalt. An NSTF was conceived for the initial testing program and construction began in 1978. Three tunnels were excavated into Gable Mountain by drilling and blasting and consisted of 180-m-long entrance tunnels connected at their ends by a 105-m-long test room. Excavated materials were used to build a bench on which operations and maintenance facilities were constructed. In December 1987, all research and work activities at the NSTF were suspended. Disassembly of the site began in March 1988 and was completed on December 1988 (PNL-7584). This project consisted of facilities/equipment such as tunnels, support trailers, septic systems, ventilation equipment, emergency generators, explosives storage, and chlorinator buildings. The site was reclaimed (e.g., removing buildings, equipment and buried utilities, backfilling tunnels, and site revegetation) per the *Basalt Waste Isolation Project Near Surface Test Facility Reclamation Plan*, (TRAC-0336).

Other previously identified WIDS sites associated with Hanford Site-related activities within the Segment 4 investigation area prior to conducting the orphan sites evaluation included sites such as septic systems, lead-sheathed communication line, sanitary and service water lines, pistol range, trash burial pits, burn pit, pre-Hanford farm dump site, construction lay-down yards, and storage vaults.

Figure 3-1. Segment 4 Historical Activity Map.



4.0 SEGMENT 4 HISTORICAL REVIEW

A comprehensive review of historical information was conducted to identify potential "activity areas" within Segment 4. Areas and features identified during the historical review process were recorded and investigated during the field verification surveys. Historical research generally focuses on identifying specific items or features that are typically associated with a waste site. The common features associated with a waste site include burn pits, trenches, ditches, pits, spills, ash pits, and disposal areas that potentially contain chemicals and radiological contaminants. Historical reviews focused on features associated with these types of areas.

Historical research was conducted using a prioritized approach similar to the approach used in the reactor/operational areas. The area under investigation was divided into areas of interest based on general historical knowledge of the Hanford Site. The high-potential areas were identified by the proximity to operational/reactor areas and were considered as having the greatest potential for containing unknown waste disposal areas. In addition, high-potential areas were also identified for land adjacent to the Columbia River because of the sensitivity and potential future use of this area. The intermediate-potential areas are identified based on rail and roadway access and include Hanford-related features not suspected of containing waste. Examples of intermediate potential areas included telecommunication lines and power transmission lines. The low-potential areas are remote areas with little access and dense old-growth vegetation areas. Segment 4 consists primarily of intermediate-potential areas and two high-potential areas, due to proximity to reactor operational areas and the river.

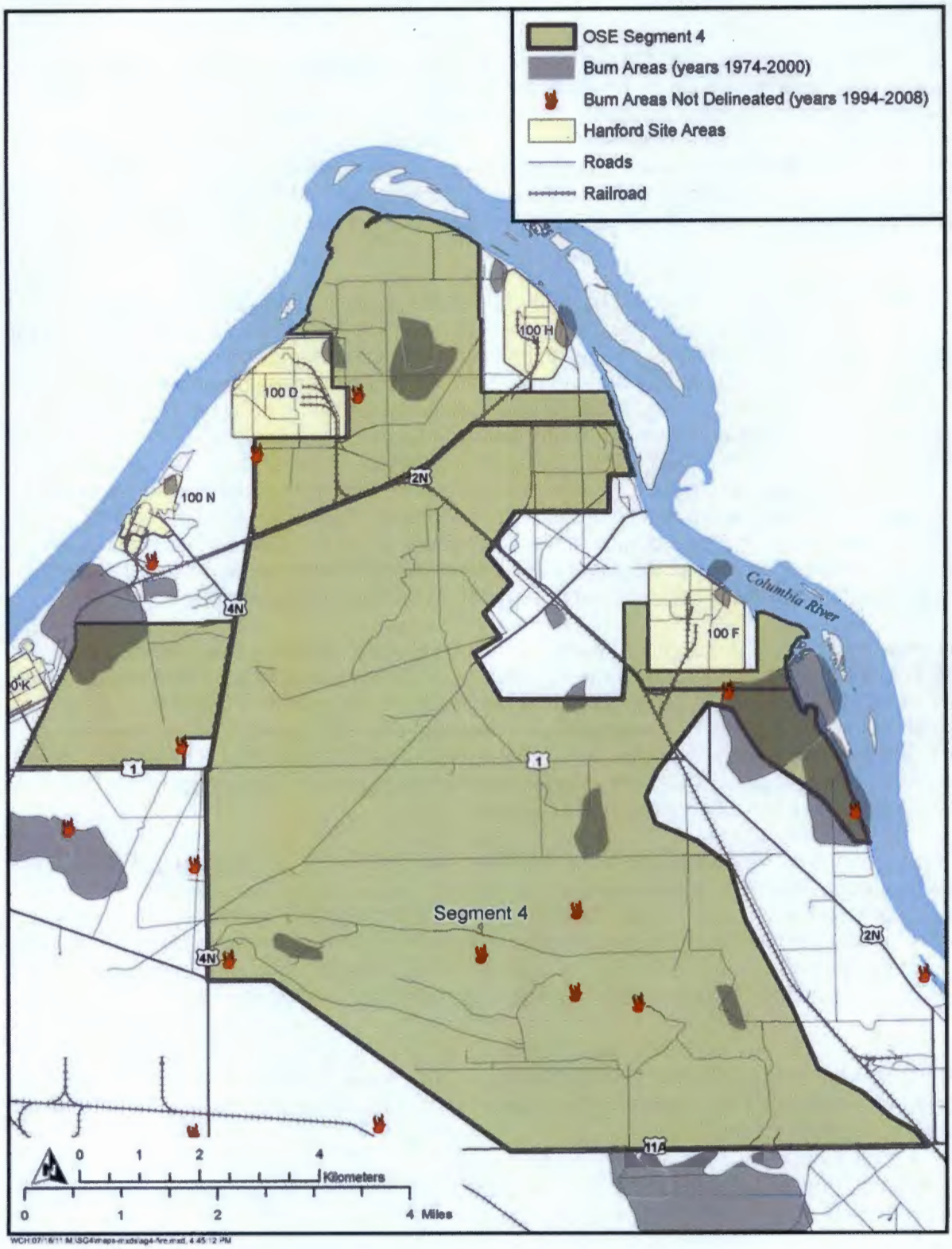
Historical research of the Segment 4 area included keyword database searches of the entire 100-F/IU-2/IU-6 segments for documents, construction drawings, pre-/post-Hanford Site maps, and aerial photographs. In comparison to a reactor area, there are few documents or drawings related to the 100-F/IU-2/IU-6 segments. A concerted effort was conducted to obtain all related pertinent spatial data in any format, for all time periods, from the Hanford Site-related prime contractors for spatial analysis and potential disposition purposes. Drawings, maps, and vertical aerial images were rectified for spatial analysis.

Telecommunication line locations were obtained from the Mission Support Alliance (MSA) utilities group. This GIS layer was used to disposition linear ground disturbances within the investigation area. In some cases, the telecommunication GIS line locations (i.e., no action status WIDS site 600-235, lead sheath telecommunication line) and ground disturbance patterns did not match the footprint of the GIS telecom and WIDS spatial layers. Geophysics was conducted as-needed to help disposition linear disturbances located during this investigation.

Historical fire locations with associated attributes (e.g., fire origins, fire boundaries, prescribed fire boundaries, and dozer lines) were obtained in GIS format for potential use to disposition some burned and disturbed areas within the Segment 4 boundaries. The locations of historical fires are shown in Figure 4-1.

Historical borrow pit locations were obtained from MSA's Central Mapping group for disposition purposes.

Figure 4-1. Historical Fire Locations Within and in Proximity to Segment 4.



Aerial herbicide application locations in GIS spatial format were also obtained from Pacific Northwest National Laboratory to associate with observed areas of stressed vegetation or observed lack of vegetation in other areas to assist in determining whether the herbicide applications may be the cause of the observed disruptions to vegetation.

4.1 HISTORICAL INFORMATION RESOURCES

Information obtained and used in the historical review includes, but is not limited to, the following types of resources:

- Maps
- Construction and operations drawings
- Technical and operations documents
- Construction and operations photographs
- Aerial photographs
- Geophysical survey results
- Incident reports
- Weekly and monthly summary reports
- Historic property inventory forms.

A summary of the key metrics associated with the Segment 4 historical review is presented in Table 4-1. Specific information associated with the review approach for selected resource types is summarized in the following subsections.

Table 4-1. Segment 4 Historical Review Metrics.

Resource Type	Item	Approximate Quantity
Documents	Documents (e.g., technical reports) retrieved from records and screened	1,959
Drawings	Drawings (e.g., construction drawings and maps) collected, reviewed, and indexed	1,447
Photographs	Photographs (e.g., aerial and ground level photographs) obtained and reviewed	218

4.1.1 Documents

Historical documents were located by keyword searches of available databases including the Declassified Document Tracking System, Integrated Document Management System, Declassified Document Retrieval System, Document and Record Tracking System, DOE Reading Room, Universal Content Management, and Records Holding Area (Fixed Records Management). Information from additional databases was accessed through WCH Records and Document Control and Hanford Site Central Files. Search results revealed approximately 1,959 historical documents for the 100-F/IU-2/IU-6 Area segments. These documents were reviewed for use in Segment 4 analysis; however, none of the documents contained any information indicating potential discovery sites in Segment 4.

Review of the aerial radiological survey data was also conducted to identity potential localized radiological anomalies within Segment 4. Aerial gamma surveys of the Hanford Site have been performed on several occasions since the late 1970s. The initial survey was conducted using a helicopter platform in the spring of 1978 with sodium iodide detectors. This survey is described in detail in EGG-1183-1828, *An Aerial Radiological Survey of the U.S. Department of Energy's Hanford Site.* Since then there have been two additional airborne surveys that were conducted in 1988 (EGG-10617-1062) and 1996 (DOE-0335). Based on a review, the data were deemed adequate and no radiological sites were identified within the Segment 4 evaluation boundaries.

Historic property inventory forms for the 600 Area were reviewed to determine if related properties were within the Segment 4 area. The properties were also reviewed to determine if any were of cultural significance for eligibility for inclusion in the National Register of Historic Places. The Hanford Site Plant Railroad, which runs through Segment 4, was identified as a historically significant feature from the previously discussed reviews.

Washington Closure Hanford excavation permits were also evaluated based on coordinates to determine if any of the disturbed areas within Segment 4 could be dispositioned. No features were identified that were dispositioned using the excavation permit reviews.

4.1.2 Construction Drawings

Construction drawings of interest were identified by reference in reviewed documents and database searches (e.g., Crystal®). Approximately 1,447 drawings were identified and screened for relevant information, and one of the drawings contained information indicating a potential new discovery site in Segment 4.

4.1.3 Photographs

For this evaluation, 1943 vertical aerial imagery that covered the entire investigation area was located. The individual photograph frames were scanned at 1,200 dpi resolution, placed in a mosaic, and then ortho-rectified using mapping software. The resulting imagery could then be included in the mapping project and used for analysis of identifying features. The 1943 aerials provided a pre-Hanford Site baseline of ground conditions prior to Hanford Site operations. Vertical aerial photographs, dated 1948, 1957, 1964, and 1969, were also georeferenced and used in spatial analysis of Segment 4. A total of 218 photographs were obtained and reviewed.

4.1.4 Geographical Information System

Information from the review of construction drawings, maps, and aerial imagery was rectified and added to the GIS spatial database, as needed. Rectified documents were then used to conduct a spatial analysis to determine if the mapped features of interest were documented sites previously identified in the existing GIS mapping layer or newly identified features. Rectified railroad drawings identified spurs that were not mapped in the WCH GIS database. The railroad spurs were mapped into the WCH GIS database even though the rail lines had been previously removed because they identified the cause of large disturbed areas.

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4.2 HISTORICAL REVIEW SUMMARY

The various resource types identified in Section 4.1 were used to review information related to potential infrastructure construction, operations, and releases within Segment 4. Information suggesting the presence of a potential discovery site was reviewed against the existing baseline of waste sites. For areas of interest or features not previously identified as a waste site, further investigation was conducted to support a final determination on classification or disposition of the feature. In some cases additional investigation included field verification and/or geophysical surveys as part of the field investigation summarized in Section 6.0. Integration of information from the historical review and field investigation activities is reflected in the results presented in Section 7.1.

4.2.1 General Features

Historical research yielded one potential discovery site, which was an underground storage fuel tank associated with the former 506 telephone exchange building's emergency generator.

4.2.2 Pipelines

Construction drawings were reviewed for pipelines that had not been previously mapped within Segment 4. Only stormwater culverts associated with railroad tracks were identified during this review, and no new pipe segments were identified.

5.0 AERIAL DATA COLLECTION AND ANALYSIS

Four-band (red, green, blue, and near-infrared) orthophotography imagery and Light Detection and Ranging (LiDAR) topography data were collected in April 2008. The data were collected in the early spring when foliage and undergrowth obscuring the ground surface was at a minimum for approximately 57,468 ha (142,000 ac) of the River Corridor area at the Hanford Site. The data were collected to support the investigation of the 100-F/IU-2/IU-6 segments for the presence of orphan sites, stewardship elements, and miscellaneous restoration features based on the evaluation approach documented in WCH-165, *Technology Screening and Optimized Design for Inter-Areas Orphan Site Evaluation*. Both the photography and LiDAR surveys were supported by on-board airborne global positioning system (GPS) and inertial measurement unit observations. Ground-targeted control points were also used to further control the scanned digital aerial photography and to serve as true checkpoints for both the LiDAR survey and the final digital orthophotography.

5.1 DATA COLLECTION

The orthophotography imagery data were collected using an Intergraph® DMC® digital camera mounted in a twin-engine Piper Navajo aircraft. The aircraft flew at an altitude of 610 m (2,000 ft) and collected data for 76 flight lines over a 3-day period. The nominal photograph scale allowed for the generation of digital orthophotography at a ground sampling distance of 7.5 cm (3 in.). The post-processed orthophotography resulted in 1,275 digital mosaic-format orthorectified photographic 750- by 750-m (2,460.75- by 2,460.75-ft) tiles.

The LiDAR data were collected using an Optech Airborne Laser Terrain Mapper sensor mounted in a single-engine Cessna aircraft. This technology utilizes lasers to map out ground surface elevations. The aircraft flew at an altitude of 803 m (2,634 ft) and collected data for 178 flight lines over a 7-day period. The data were converted to a digital elevation model (DEM) that has a nominal ground resolution of 0.4 m (1.31 ft). The airborne LiDAR data were collected at sufficient density and accuracy to allow for the generation of 0.5-m (1.64-ft) posting DEM grids and 0.3 m (0.98 ft) contours. Post-processed LiDAR data were reduced to 1,275 tiles measuring 750 by 750 m (2,460.75 by 2,460.75 ft). The data set deliverables included DEMs for all points, first return, ground, nonground, and contours.

5.2 DATA EVALUATION

The orphan sites evaluation process of the imagery and LiDAR surveys (flight surveys) are conducted using the same criteria and systematic approach as the land-based walkdown surveys. The objectives, processes, and deliverables are consistent with those conducted for the reactor/operational area evaluations.

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For the flight survey evaluation, 30- by 30-m (98.43- by 98.43-ft) grid areas were developed for the Segment 4 orphan sites evaluation. Each grid area is evaluated using the aerial photography as shown in Figure 5-1 (feature SG4-386 depicted) and at a more global resolution for potentially larger features. Field verification determined this feature to be concrete cleanout; therefore, it was classified as Stewardship. Man-made materials and features or disturbed areas were identified and recorded into a GIS database.

Figure 5-1. Example of Imagery Data (SG4-386).

Features were recorded and initially classified as Orphan Site, Stewardship, or Miscellaneous Restoration; selected features were then field verified and comparison photographs collected.

Linear features were collected within Segment 4 with points representing the beginning and end points of the feature; both points were identified with the same orphan sites evaluation identification. An example of this type of linear feature is shown in Figure 5-2. Further analysis of feature SG4-229 using the aerial imagery was determined to be pre-Hanford irrigation line. Polygon areas, if collected within the Segment 4 boundaries, were represented using four points (far east, west, south, and north boundary) of the identified feature, all points having the same orphan sites evaluation identification number. Polygon areas were used to identify large disturbed areas or areas containing redundant features.

5.2.1 Prioritized Approach

A prioritized survey and validation approach was developed for Segment 4, classifying areas into three categories based on potential for site or release occurrence that included higher, intermediate, and low probability. The probability areas were defined spatially by proximity to reactor operation or Hanford Site ancillary facilities, access gateways, and remote limited access or topographic limited areas. Access gateways consisted of transportation routes including roads, railroads, and easements (telecommunications, power, export waterline). Hanford Site ancillary facilities not directly related to the reactor operation consisted of guard houses, military bases or posts, export water structures, railroad-related operations, and other easement-related features (e.g., power transmission lines, poles, towers).

Flight surveys were conducted in both two-dimension (2D) and three-dimension (3D) in all of the probability areas. Field verification of suspect features identified during the flight surveys and road surveys of all accessible areas were also conducted. A prioritized approach was utilized for field verification of the collected features and for quality control and validation of the flight and road survey processes. Road surveys and field verification of suspect features were conducted after the flight surveys were finished for a given area. The road surveys and field verification process allowed for the assessment of the flight data feature collection process and completeness. The road surveys were conducted at 5 mi/hr, and any additional features identified were recorded and added to the database. During the road survey process, selected features from the flight survey were field verified. Not all roads were surveyed due to general accessibility issues. Roads that were surveyed are discussed in Section 6.0. During the field verification process, any additional features identified were also recorded. This approach verified and added additional confidence that no significant features were missed during the flight survey.

The areas defined as low-potential probability consist of limited access, old mature sagebrush/vegetation, remote, and topographic-limiting areas. Low-probability areas were analyzed in 2 and 3D and selectively field verified. The 2D surveys were conducted utilizing the orphan sites evaluation field walkdown team as the primary flight surveyors. The 3D LiDAR inspection was conducted separate from the 2D survey using Global Mapper software and served two purposes: (1) an independent quality assurance/quality control flight overview and (2) analysis of bare earth ground returns. The LiDAR ground return data were used for the 3D evaluation. The LiDAR data representing vegetation and above-grade features were excluded to eliminate data that would potentially obscure surface features or depressions.

Figure 5-2. Analysis of Linear Feature SG4-229 (Running in North-South Direction).

The intermediate probability areas within Segment 4, which consisted of access gateways and ancillary support facilities, were analyzed utilizing 2D and 3D techniques, road surveyed, and selectively field verified.

In areas that were determined to have a higher probability area (near the reactor/operational areas or along the river), a total walkdown of the area was conducted because of a potentially higher probability of orphan site occurrence within these areas.

Flight surveys were also conducted utilizing the color infrared (CIR) portion of the orthophotography in order to identify vegetation anomalies. Color infrared will typically show healthy growing vegetation as red, where dormant or unhealthy vegetation will be indicated as light red or blue-green, depending upon the condition of the vegetation. The 750- by 750-m orthophotography photo tiles were flown half a tile at a time to survey for vegetation anomalies. One feature was identified (SG4-487) for field verification with this survey. This feature turned out to be bare ground with no secondary evidence of debris or staining and, therefore, classified as No Further Evaluation.

5.2.2 Flight Survey Analysis

The entire Segment 4 area was flown in 3D using the LiDAR data after the 2D flight survey had been conducted. An additional 13 features were identified using this technique.

During the initial flight, geographical information data was included for use in determining whether the feature had been previously identified. The baseline GIS data included features such as roads and railroads, borrow pits, export water lines, telecommunication and powerline easements, Hanford buildings, and other known structures. Baseline GIS data also included all WIDS site information available. During the initial flight survey, no dispositional GIS data (fire boundaries, herbicide application areas, 1943 imagery, etc.) were included until all features were recorded. After the flight surveys, road surveys, and field verification were completed, a spatial analysis was conducted to identify and potentially disposition suspect features. The spatial analysis utilized historical maps, construction drawings, GIS data of existing site features, and rectified pre- and post-Hanford Site images to identify features.

The features identified in Segment 4 were compared to known GIS historical baseline information (e.g., historical drawings) to potentially identify the origin and/or purpose of the feature. When possible, timeline and origin estimation for each feature were developed using rectified orthophotography, maps, or GIS layers. This information was then recorded in the form of a disposition including all references. Figures 5-3 through 5-5 show examples of a linear feature (SG4-089) located during analysis of orthophotography, utilizing Global Mapper 3D software.

Field verification, as shown in Figure 5-6, indicated no secondary evidence of staining or debris. Spatial analysis with 1943 imagery indicated this feature to be a pre-Hanford section road and was therefore classified as Stewardship.

Geophysics was conducted for selected features to evaluate potential below-grade features (see Section 6.2.1). When geophysics reflects the absences of below-grade features within selected disturbed areas, the area is classified as Stewardship.

Figure 5-3. Example of Orthography for Stewardship Feature SG4-089.

Figure 5-4. Example of LiDAR for Stewardship Feature SG4-089.

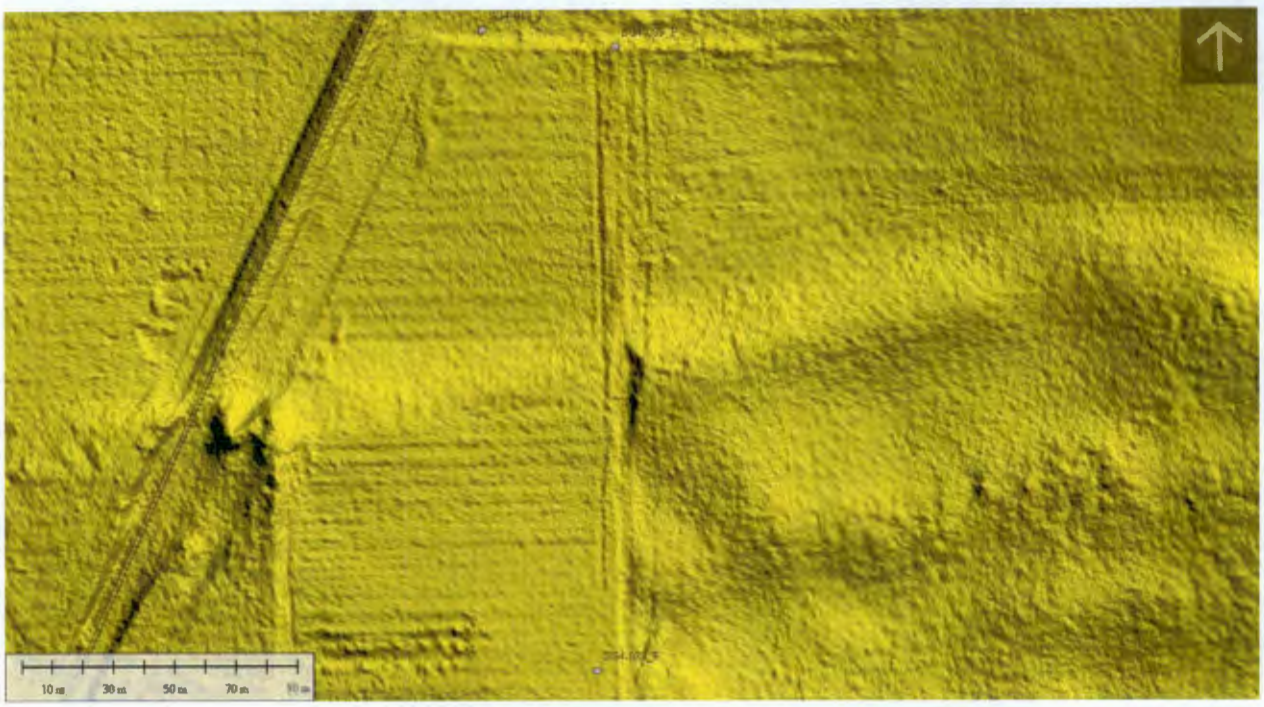

Figure 5-5. 3D View for Stewardship Feature SG4-089.

Figure 5-6. Field Verification Photograph of Stewardship Feature SG4-089 (North End of Linear Looking South).

6.0 SEGMENT 4 FIELD INVESTIGATION

The field investigation and verification builds on results from the historical research and 2008 aerial imagery review subtasks by investigating the identified selected features and documenting observations. Road surveys were conducted when practical, and field verification walkdowns of targeted activity areas and selected features were conducted. The field investigation consists of walking over an area of interest in a systematic manner and locating, documenting, and mapping observed items and features that could lead to the identification of orphan sites. During the course of conducting the orphan site field investigation, observed items and elements that meet the definition of miscellaneous restoration items or stewardship elements also are identified and mapped.

6.1 FIELD INVESTIGATION DOCUMENTATION TOOLS AND APPROACH

The field investigation provides another level of assurance that all potential waste sites have been identified. The primary means used to record the information observed in the field include hand-held Trimble GeoXH® GPS units, digital cameras, and field logbooks. Geophysical survey instrumentation is used to supplement these tools for selected areas or features identified during the historical and 2008 aerial imagery review, or field investigation.

To ensure a systematic approach for area coverage, a standardized 30- by 30-m (98- by 98-ft) conceptual grid is established over the area to be investigated. The grid and existing known features in the area are loaded onto a hand-held GeoXH GPS unit that is used in the field to monitor progress and record information. Using the conceptual grid as a guideline, the investigation is conducted with approximately 15-m (49-ft) spacing between team members. Segment 4 had two total walkdown areas next to the river, consisting of approximately 2,808 ha (6,939 ac) (Figure 6-1).

During the field verification investigations, any features not previously recorded during the orthophotography survey that warrant collection are recorded for inclusion into the GIS database. Road surveys are conducted concurrently during the field verification investigation of the target areas. The road surveys, when conducted, were recorded using the GeoXH trail data collection feature and are included as part of the GIS data documented and mapped for this project (Figure 6-1). Any newly discovered features not previously identified are recorded and added to the Segment 4 feature database.

6.2 FIELD INVESTIGATION SUMMARY

Items and features of interest that were observed during the investigation were recorded in North American Datum of 1983 Washington State Plane South coordinates as a point, using the GeoXH GPS unit. Attributes of each item or feature were recorded with the GeoXH from an imbedded data dictionary picklist structure created specifically for orphan sites evaluations. Features of interest were also photographed with a digital camera.

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Figure 6-1. Segment 4 Road Survey and Walkdown Area Map.

During the course of conducting the field investigation, approximately 853 features (historical features excluded) were recorded using the GeoXH GPS unit. Associated images of the items and features were recorded in approximately 1,039 digital photographs. Items and features of interest observed in the field were initially categorized into one of the following groups:

- Potential orphan sites
- Miscellaneous restoration items
- Stewardship elements.

Integration of information from the historical review and field investigation activities, including final categorization of items and features, is reflected in the results presented in Section 7.0.

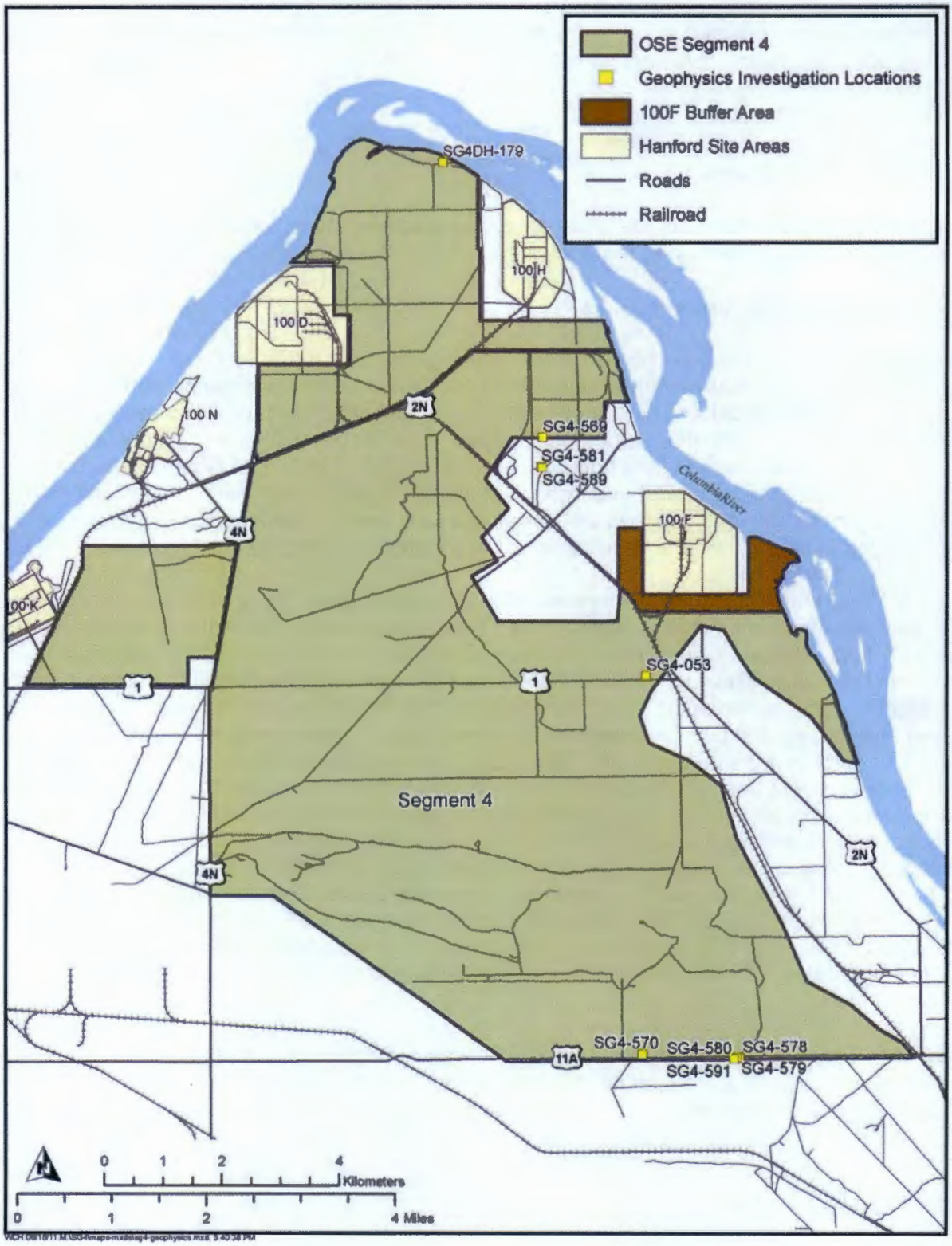
6.2.1 Geophysical Survey

Geophysical surveys were conducted at ten locations to support the Segment 4 field investigations. The geophysical surveys were conducted to determine the presence/absence of below-grade features pertaining to linear terrain disturbances or surface disturbances identified during the review of the orthophotography images. The geophysical investigations also aid in the disposition, classification, and documentation of identified features. Combinations of ground-penetrating radar (GPR) and radio detection (RD4000) geophysical investigation methods were used in the geophysical survey. Results from the geophysical survey are summarized in the following subsections and the locations are depicted in Figure 6-2.

6.2.1.1 Waste Information Data System 600-235 Waste Site. The WIDS 600-235 waste site is a lead-sheath communication cable (LSCC) that is classified as No Action and administered by CH2MHILL Plateau Remediation Company (CHPRC). The objective of the geophysical investigation was to field verify the location of the LSCC and to determine if the present location information documented in the WIDS portion of the GIS database was accurate. Orthophotography and GIS data were used to select four locations where the LSCC enters, exits, or branches within Segment 4. During orthophotography image review, linear-disturbed areas were present near only two of the GIS mapped locations of the LSCC. The other two GIS mapped locations selected for geophysical investigation had no linear disturbances visible in the orthophotography images and were not investigated using geophysics. The previous 21 locations associated with the 600-235 waste site were conducted to support the 100-F/IU-2/IU-6 Area Segment 1, Segment 2, Segment 3, 300-FF-2, and 400 Area orphan sites evaluations documented in OSR-2009-002, OSR-2010-0001, OSR-2010-0004, OSR-2010-0002, and OSR-2010-0003, respectively. Additional information regarding the geophysics results can be found in Geophysical Site Investigation Summary report (WCH 2011d).

SG4-569: The GIS data indicate that the LSCC enters Segment 4 at the selected location. Geophysics was conducted over the disturbed linear visible in orthophotography, and detected no below-grade anomalies at the selected location (WCH 2011d).

Figure 6-2. Segment 4 Geophysics.



SG4-570: The GIS data indicate that the LSCC enters Segment 4 at the selected location. Geophysics was conducted over the disturbed linear visible in the orthophotography. Three below-grade anomalies were detected in the disturbed linear area that would indicate the presence of the lead sheath communication cable. Two utility lines running in an east-west direction and one line in a north-south direction converged in the area of an above-grade communication box (WCH 2011d).

6.2.1.2 Other Geophysics Sites.

SG4-053: This feature consists of a 30- by 5-m linear terrain disturbance with some visible metal debris. Geophysics indicated scattered shallow anomalies, ranging from <0.5 m to surface material that were delineated and confined to an area of approximately 5 by 20 m (WCH 2011c). Based upon geophysics and lack of secondary evidence of staining, this feature was classified as Stewardship.

SG4-578: This feature consists of the historical location of a septic tank and associated drain field located to the northeast of the former site of the 506 telephone exchange building. Geophysics was conducted over a 44- by 16-m area and indicated scattered metallic and nonmetallic over an area of about 15 m^2 just to the north of the historical location for the septic tank. An anomaly that might represent the septic tank was seen approximately 1.8 m below the ground surface (bgs). A linear/pipe-like feature was also located at 1.5 m bgs that trended toward the potential septic tank location and correlated reasonably well with the historical location of the septic feed line (WCH 2011a). Based upon the purpose of the facility it was connected to, this feature was classified as Stewardship.

SG4-579: This feature consists of the historical location of a septic tank and associated drain field located to the west of the former site of the 506 telephone exchange building. Geophysics was conducted over a 20- by 12-m area, and no anomalies were detected to indicate a septic system (WCH 2011a). Based upon the purpose of the facility it was connected to, this feature was classified as Stewardship.

SG4-580: This feature consists of the historical location for an underground storage tank (UST) that supplied fuel to the 506 telephone exchange building emergency generator. Geophysics indicated an anomaly that could indicate a potential UST located about 2 m west of the historical location for the UST (WCH 2011a). Additionally, much of this survey area contains scattered debris that is metallic in nature which is typical of a facility demolished in-place. Based upon the use of this tank, this feature was classified as an Orphan Site.

SG4-581: This feature consists of the historical location of a septic tank and associated drain field located to the northwest of the former site of the 506A telephone exchange building. Geophysics indicates found anomalies correlate closely with this features components. The top of the interpreted tank appears to be about 1.3 m bgs and the interpreted line about 1.5 m bgs. There was no clear indication of the drain field in the geophysics data, but this is not uncommon due to the nature of the construction materials, e.g., vitrified clay (WCH 2011b). Based upon the purpose of the facility it was connected to, this feature was classified as Stewardship.

SG4-589: This feature consists of the historical location of the 506A telephone exchange building's cable vault that was located in the northeast corner of the building. This feature was a 2-m (77-in.) by 5.5-m (216-in.) by 2-m (7-ft)-deep cable vault with hatch and sump pit. Geophysics indicated an area of about 15 by 15 m with multiple point reflections approximately 1.0 m bgs that is indicative of a demolished building. One linear feature about 0.8 m bgs trends

eastward from what may be the cable vault; no void space was indicated (WCH 2011b). This feature was classified as Stewardship.

SG4-591: This feature consists of a partially buried 114-L (30-gal) drum and a 1-m-diameter corrugated metal culvert. Geophysics indicated two linear features in the vicinity of the visible drum and culvert. Both linears appear to have limited extent, and a small disturbed area was also detected near the culvert (WCH 2011a). Based upon lack of secondary evidence of staining and geophysics, this feature was classified as Stewardship.

SG4DH-179: This feature consists of 200- by 60-m area with scattered transite, concrete, and metal debris. Geophysics indicated surface and buried metallic material contained in an approximate area of 20 by 190 m, striking east-northeast. Within this elongated area, most of the buried metal is concentrated in four to five relatively distinct zones (WCH 2011e). This feature was classified as an Orphan Site.

6.2.2 Physical Hazards

During the course of performing the field investigation, two physical hazards (pre-Hanford well SG4-445 and an abandoned aggregate batch plant tunnel SG4-575) were judged to merit notification (e.g., active subsidence, open wells/cisterns, open basement foundation) were observed or recorded using the GeoXH GPS units. General surface debris presenting potential tripping hazards were present throughout Segment 4, but were not specifically recorded as physical hazards as defined for the purpose of performing orphan sites evaluations.

6.2.3 Undocumented Wells

Two potential pre-Hanford farmstead wells (SG4-240 and SG4-445) were reported to the CHPRC Groundwater Project. SG4-240 is located in the north end of Segment 4 near Route 2N, and SG4-445 is located in Segment 4 north of Gable Mountain and south of the intersection of Route 2N and Route 1.

7.0 SEGMENT 4 EVALUATION RESULTS

The final step of the orphan sites evaluation process involves integrating information from the historical and orthophotography reviews with the field investigation finding. The features are then categorized and briefings were conducted with RL and EPA staff, incorporating comments or modifications to establish the final results. The final results are then documented in this summary report and reflected in updates to applicable components of the SIS and WIDS databases.

7.1 INTEGRATION OF HISTORICAL REVIEW AND FIELD INVESTIGATION INFORMATION

The orphan sites evaluation project team members reviewed information from the historical reviews and field investigation activities to refine the initial categorization of items and features into orphan sites, miscellaneous restoration items, and stewardship elements. Decisions regarding whether an item or feature of interest met the qualifications to be identified as an orphan site were made consistent with criteria established by the TPA-MP-14 process (RL-TPA-90-0001). This includes consideration of the following type of questions:

- Is it a solid waste management unit?
- Is it a waste disposal unit (e.g., pits, trenches, dumping areas, french drains)?
- Is it an unplanned release that represents a potential threat to human health and the environment?
- Is it an inactive contaminated structure?
- Does it require a *Resource Conservation and Recovery Act of 1976* permit to treat or store dangerous or mixed waste?
- Is it another type of storage unit (e.g., radioactive waste storage unit) that requires action?

The items identified during the orphan sites evaluation process that meet the criteria are typically unplanned releases, inactive structures, or waste disposal units. Inclusion of items or features in the category of Miscellaneous Restoration was based on the requirements of Section C.2.10 of the RCCC (WCH-2).

7.2 INFORMATION BRIEFINGS

Briefings were conducted to share information and results from the Segment 4 orphan sites evaluation. Initial briefings were held with representatives from the WCH project organization responsible for implementing remedial actions in the 600 Area. Results of the Segment 4 orphan sites evaluation were subsequently presented to RL project staff (River Corridor Program) and EPA staff during briefings conducted in July 2010 and April 2011. Briefings were also conducted with RL and Ecology in March 2011.

The briefing included an overview of the orphan sites evaluation process, identification and review of proposed orphan sites, identification and review of miscellaneous restoration items, and identification and review of a representative group of items categorized as stewardship elements. Complete table listings from each of the three categories were distributed at the briefings, and selected photographs were projected and discussed with attendees.

7.3 FINAL CATEGORIZATION

Final categorization of the items and features documented during the Segment 4 orphan sites evaluation is presented in the following subsections. Associated summary tables of miscellaneous restoration items and stewardship elements recorded during the Segment 4 area evaluation are provided in Tables 7-1 through 7-7. The table reflects the binning of items based on feedback and discussion from the information briefings summarized in Section 7.2. Locations of the Miscellaneous Restoration sites and stewardship elements for the Segment 4 are depicted in Appendix A, Figure A-1. A summary of the findings is as follows:

- 13,583 ha (33,550 ac) were evaluated
- 19 orphan sites (consisting of 50 features) were identified
- 68 miscellaneous restoration items were recorded
- 728 stewardship elements were recorded
- 10 locations were investigated through geophysics
- Two physical hazard locations were identified.

7.3.1 Orphan Sites

A total of 50 orphan features (25 in the Segment 4 sub-area; 23 in the Segment 4 [100D/H] sub-area; and 2 in the Segment 4 [100-F] subarea) were identified through this orphan sites evaluation and binned into orphan site categories. No orphan site features were identified in the Segment 4 (100-K) and Segment 4 (100-N) sub-areas. Waste site identification numbers and a brief description of attributes are presented in Tables 7-1 through 7-3. Several of the individual orphan features were grouped into one orphan site (new discovery site) based on common attributes or features of interest (e.g., stain areas) considering past characterization results for similar features, or anticipated confirmatory sampling approaches. The grouping resulted in a total of nineteen new discovery sites presented in Tables 7-1 through 7-3.

TPA-MP-14 discovery site evaluation checklists were completed for each of the discovery sites identified through this evaluation and assigned a corresponding WIDS identification number. These new discovery sites were "accepted" in accordance with the TPA-MP-14 processes and added to the RCCC scope for subsequent characterization and determination of any remedial actions (Figure 2-1). Information associated with each new discovery site is stored in the waste site component of the SIS database including a site identification number, location, description, photographs, and status.

Table 7-1. Segment 4 Orphan Site Groupings.

WIDS Number	General Description	Corresponding Orphan Site Feature Number(s)
600-368	Segment 4 Stained Soil Area #1	SG4-030
600-369	Segment 4 Bare Ground and Crusted Soil Area	SG4-033, SG4-035, SG4-036, SG4-040, SG4-042, SG4-048, SG4-050, and SG4-055
600-370	Segment 4 Debris Area #1	SG4-407
600-371	Segment 4 Chalky Material Area	SG4-143
600-372	Segment 4 Oil Stain and Filter Area #1	SG4-150, SG4-155
600-373	Segment 4 Bare Ground and White Stain Area	SG4-159
600-374	Segment 4 Drum Remnant Area	SG4-233
600-375	Segment 4 Dry Cell Battery Debris Area #1	SG4-527, SG4-537, SG4-539, SG4-541, and SG4-542
600-376	Segment 4 Stained Soil Area #2	SG4-532, SG4-535
600-377	Segment 4 Oil Stain and Filter Area #2	SG4-549
600-378	506 Telephone Exchange Emergency Generator Building Underground Fuel Storage Tank	SG4-580
600-379	Segment 4 Burn Area #1	SG4-592

TBD = to be determined
WIDS = Waste Information Data System

Table 7-2. Segment 4 (100-D/H) Orphan Site Groupings.

WIDS Number	General Description	Corresponding Orphan Site Feature Number(s)
600-380	Segment 4 Unknown Cylinder	SG4DH-028
600-381	Segment 4 Underground Structure with Wooden Air Vents Feature	SG4DH-225
600-382	Segment 4 Oil Stain and Filter Area #3	SG4DH-054, SG4DH-055, SG4DH-066, SG4DH-119, and SG4DH-189
600-383	Segment 4 Battery Remnant Area #2	SG4DH-030, SG4DH-043, SG4DH-057, SG4DH-060, SG4DH-079, SG4DH-097, SG4DH-110, SG4DH-127, SG4DH-139 and SG4DH-155
600-384	Segment 4 Stained Soil Area #3	SG4DH-039, SG4DH-040, SG4DH-102, SG4DH-108 and SG4DH-121
600-385	Segment 4 Transite, Concrete, and Metal Debris Area	SG4DH-179

TBD = to be determined
WIDS = Waste Information Data System

Table 7-3. Segment 4 (100-F) Orphan Site Groupings.

WIDS Number	General Description	Corresponding Orphan Site Feature Number(s)
600-351	Stained Areas Outside of 100-F Area	SG4-009, SG4-010

WIDS = Waste Information Data System

7.3.2 Miscellaneous Restoration

There were 68 miscellaneous restoration items documented as part of the Segment 4 orphan sites evaluation (identified in Tables 7-4 through 7-8). It is anticipated that these items will be removed or otherwise addressed in accordance with RCCC requirements. The orphan sites evaluation process includes only the debris component of the miscellaneous restoration contract requirement. Miscellaneous restoration items identified during the evaluation represent specific observations documented during the field investigation task. Information associated with the miscellaneous restoration item is stored in the orphan sites evaluation component of the SIS database including tracking number, location, summary description, and photograph.

7.3.3 Stewardship Elements

Approximately 728 stewardship elements were documented as part of the Segment 4 orphan sites evaluation and are identified in Tables 7-4 through 7-8. These stewardship elements include both items and features that were investigated based on potential or unresolved questions and then determined through additional research and/or field verification not to meet the criteria for identification as an Orphan Site or Miscellaneous Restoration. They also include items or features that were observed during the field investigation and documented to acknowledge their presence based on the likelihood that they would remain in Segment 4 following completion of the RCCC scope. Although stewardship elements do not meet the criteria for the Orphan Sites or Miscellaneous Restoration categories and are not within the RCCC cleanup scope, it is possible that some may be removed because they ultimately lie within the excavation footprint or other impacted areas (e.g., staging pile areas, container queues) associated with CERCLA remedial actions. Information associated with the Stewardship items is stored in the orphan sites evaluation component of the SIS database and includes tracking numbers, locations, summary descriptions, and photographs.

7.3.4 Waste Information Data System

No additional WIDS characterization features were collected during the OSE that were associated with an existing WIDS site and classified as WIDS for Segment 4.

Table 7-4. Segment 4 Orphan Sites Evaluation Summary. (57 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4-005	This location contains an empty 206-L (55-gal) drum and a galvanized bucket, no staining visible.	579359.51	146730.33	Identified in field walkdown.	This drum has been classified to be cleaned up as Miscellaneous Restoration.	MR
SG4-007	This site is a empty 206-L (55-gal) drum, no staining visible.	579421.19	146658.55	Identified in field walkdown.	This drum has been classified to be cleaned up as Miscellaneous Restoration.	MR
SG4-010	This site consists of fencing and metal debris in a 5-m-diameter area.	579790.84	146418.39	Identified in field walkdown.	This feature has been classified as Stewardship.	S
SG4-017	This site is a 6-m area of fencing debris and old grape vines.	579537.18	146268.93	Field verified 2/17/2009.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-018	This location is a 150-m-long area of scattered wood debris and wire wrap from an irrigation line.	579310.43	146197.40	Field verified 2/18/2009.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-019	This site is a 12-m area of rails and ties.	579850.33	146160.58	Field verified 2/18/2009. This feature was removed as part of miscellaneous restoration rail removal.	This feature has been classified as Miscellaneous Restoration.	MR
SG4-020	This site is an excavated trench 85 x 20 m with no visible staining or debris. The bottom of the trench is covered with tumbleweeds.	579938.74	146298.56	Identified in field walkdown. This feature is not visible in 1943, but is visible in 1948 imagery.	This feature has been classified as Stewardship.	S
SG4-021	This site is five sections of wooden irrigation pipe and wire wrap.	579404.99	146296.28	Identified in field walkdown.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-022	This feature is debris consisting of a 206-L (55-gal) empty cut down drum, no staining visible.	579752.97	146001.30	Identified in field walkdown.	This feature has been classified as Miscellaneous Restoration.	MR
SG4-023	This site consists of two railroad ties.	579836.91	146015.96	Identified in field walkdown.	This feature has been classified as Stewardship.	S
SG4-024	This feature is a 1- x 0.5-m empty galvanized metal box.	579808.63	145893.20	Field verified 2/23/2009.	This feature has been classified as Stewardship.	S
SG4-025	12-m area of scattered wood debris.	579832.29	145908.33	Field verified 2/23/2009.	This feature has been classified as Stewardship.	S
SG4-026	East end of a 3-m-long concrete culvert that goes under an abandoned road.	579860.46	145856.94	Field verified 2/23/2009.	This feature has been classified as Stewardship.	S

Table 7-4. Segment 4 Orphan Sites Evaluation Summary. (57 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4-027	85- x 25-m disturbed area, no debris or staining visible.	580163.47	145724.80	Field verified 2/24/2009. This feature is not visible in 1943, but is visible in 1948 imagery.	This feature has been classified as Stewardship.	S
SG4-028	Pre-Hanford cook stove.	579819.60	145642.58	Identified in field walkdown.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-029	100- x 75-m borrow pit with no staining or debris visible.	580046.50	145685.25	Field verified 2/24/2009. This feature is not apparent in 1943 or 1948 imagery.	This feature has been classified as Stewardship.	S
SG4-030	4- x 2-m area covered with green granules.	579763.92	145328.32	Field verified 2/26/2009. Spatial analysis using WCH GIS data indicates this feature is approximately 30 m west of the Leazur Spur warehouse facilities that operated from 1943 to 1945.	This feature is classified as an Orphan Site.	OS
SG4-031	9-m-diameter area of a broken concrete foundation.	579797.63	145202.49	Field verified 2/26/2009. This feature is apparent in 1943 imagery.	This feature consists of pre-Hanford debris has been classified as Stewardship.	S
SG4-032	206-L (55-gal) drum visible in aerial photography.	582398.93	145968.04	Field verified 3/3/2009.	When field verified this feature was no longer visible at this location. This feature has been classified as No Further Evaluation.	NFE
SG4-033	6-m-diameter burn area with debris.	579937.30	145487.63	Identified in field walkdown. Spatial analysis using WCH GIS data indicates this feature is within the Leazur Spur warehouse facilities that operated from 1943 to 1945.	This feature is classified as an Orphan Site.	OS
SG4-034	1- x 1-m wood-lined below-grade structure.	579987.50	145425.98	Identified in field walkdown. Spatial analysis using WCH GIS data indicates this feature is within the Leazur Spur warehouse facilities that operated from 1943 to 1945.	This feature has been classified as a Stewardship.	S
SG4-035	10-m-diameter area with six drum lids.	579698.99	145413.13	Identified in field walkdown. Spatial analysis using WCH GIS data indicates this feature is approximately 200 m west of the Leazur Spur warehouse facilities that operated from 1943 to 1945.	This feature has been classified as an Orphan Site.	OS

Table 7-4. Segment 4 Orphan Sites Evaluation Summary. (57 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4-036	3-m-diameter area of no vegetation.	579803.50	145380.74	Identified in field walkdown. Spatial analysis using WCH GIS data indicates this feature is approximately 94 m west of the Leazur Spur warehouse facilities that operated from 1943 to 1945.	This feature has been classified as an Orphan Site.	OS
SG4-037	20-m disturbed area with moss that is approximately 11 m north of Route 1.	579473.40	145310.71	Identified in field walkdown. Regulator field visit on 5/25/2011 changed classification to Stewardship.	This feature has been classified as Stewardship.	S
SG4-038	2-m^3 area of excess asphalt that is 16 m west of Leazur Spur #2.	579766.67	145266.64	Identified in field walkdown.	This feature has been classified as Stewardship.	S
SG4-039	One piece of 15-cm x 15-cm black solid material.	579761.53	145274.13	Identified in field walkdown.	This feature consists of apparent boiler refractory material and has been classified as Stewardship.	S
SG4-040	Approximate 100-m area with multiple spots of no vegetation and bare ground.	579812.38	145204.89	Identified in field walkdown. Spatial analysis using WCH GIS data indicates this feature is located approximately 200 m southwest of the Leazur Spur warehouse facilities (1943-1945) and is located between Leazur Spur #1 and #2.	This feature has been classified as an Orphan Site.	OS
SG4-041	This site consists of metal debris and a roll of tarpaper.	579644.36	145246.13	Identified in field walkdown.	This feature has been classified as Stewardship.	S
SG4-042	14-m mossy area with multiple spots of bare ground.	579736.30	145178.74	Identified in field walkdown. Spatial analysis using WCH GIS data indicates this feature is located approximately 265 m southwest of the Leazur Spur warehouse facilities (1943-1945) and is 22 m west of Leazur Spur #2.	This feature has been classified as an Orphan Site.	OS
SG4-043	10-m area of scattered metal farmstead debris.	579635.19	145052.33	Identified in field walkdown.	This feature consists of pre-Hanford debris and is classified as a Stewardship.	S
SG4-044	6-m area of decaying timbers with lag bolts.	579782.28	145608.70	Identified in field walkdown.	This feature has been classified as Stewardship.	S

Table 7-4. Segment 4 Orphan Sites Evaluation Summary. (57 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4-045	Decayed wood plank flooring from four buildings in a 67-m area.	579962.18	145542.41	Identified in field walkdown. Spatial analysis using WCH GIS data indicates this feature is within the Leazur Spur warehouse facilities that operated from 1943 to 1945.	This feature has been classified as Stewardship.	S
SG4-046	16-m area of decaying planks with lag bolts and utility poles.	579831.75	145514.21	Field verified 2/25/2009. Spatial analysis using WCH GIS data indicates this feature is within the Leazur Spur warehouse facilities that operated from 1943 to 1945, and is 12 m west of Leazur Spur #2.	This feature has been classified as Stewardship.	S
SG4-047	Two concrete weir boxes that are part of the pre-Hanford irrigation system.	579880.66	145506.32	Identified in field walkdown. Spatial analysis using WCH GIS data indicates this feature is within a pre-Hanford farmstead (1943 aerial imagery).	This feature consists of pre-Hanford debris and has been classified as Stewardship.	S
SG4-048	2-m-diameter area of red crust soil and no vegetation.	579895.23	145368.72	Identified in field walkdown. Spatial analysis using WCH GIS data indicates this feature is within the Leazur Spur warehouse facilities that operated from 1943 to 1945, and is next to Leazur Spur #1.	This feature has been classified as an Orphan Site.	OS
SG4-049	Black solid material.	579725.38	145335.72	Identified in field walkdown.	This feature consists of apparent boiler refractory material and has been classified as Stewardship.	S
SG4-050	50-m-diameter area with multiple spots of bare ground.	579952.40	145351.86	Identified in field walkdown. Spatial analysis using WCH GIS data indicates this feature is within the Leazur Spur warehouse facilities that operated from 1943 to 1945, and is 56 m east of Leazur Spur #1.	This feature has been classified as an Orphan Site.	OS
SG4-051	3-m-diameter area of debris consisting of metal spools.	579684.84	145340.09	Identified in field walkdown.	This feature is classified as Stewardship.	S
SG4-052	114-L (30-gal) empty drum, no staining visible.	579700.93	145352.37	Identified in field walkdown.	This feature has been classified as Miscellaneous Restoration.	MR

Table 7-4. Segment 4 Orphan Sites Evaluation Summary. (57 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4-053	30- x 5-m disturbed area with some metal debris visible.	579680.94	145354.92	This feature is located approximately 227 m west southwest of the Leazur Spur warehouse facilities (1943-1945) and is 124 m west of Leazur Spur #2. Geophysics indicated scattered debris depth ranges from <0.5 m to surface.	This feature has been classified as Stewardship.	S
SG4-054	11-m area of a concrete foundation.	579894.93	145478.48	Identified in field walkdown.	This feature is a pre-Hanford homestead structure based upon 1943 imagery, and aggregate size that is not consistent with Hanford standards. It has been classified as Stewardship.	S
SG4-055	11-m area of crusted soil with no vegetation visible.	579633.55	145336.17	Identified in field walkdown. Spatial analysis using WCH GIS data indicates this feature is located approximately 270 m west southwest of the Leazur Spur warehouse facilities (1943-1945) and is 167 m west of Leazur Spur #2.	This feature has been classified as an Orphan Site.	OS
SG4-056	70- m linear terrain feature with mossy soil and no secondary debris or staining visible.	579730.84	145358.14	Identified in field walkdown. Visible in 1948 imagery 4BBL07032_115_r.tif. Spatial analysis using WCH GIS data indicates this feature is located approximately 180 m west southwest of the Leazur Spur warehouse facilities (1943-1945) and is 70 m west of Leazur Spur #2.	This feature has been classified as Stewardship.	S
SG4-057	1.5- m area concrete cleanout.	579819.98	145223.31	Identified in field walkdown.	This feature has been classified as Stewardship.	S
SG4-058	Two abandoned wood utility poles 6 m in length lying on the ground.	579939.24	145462.14	Identified in field walkdown.	This feature has been classified as Stewardship.	S
SG4-059	Alarm siren.	582658.76	145150.06	Field verified 3/16/2009.	This feature has been classified as Stewardship.	S

Table 7-4. Segment 4 Orphan Sites Evaluation Summary. (57 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4-060	This site consists of metal car parts.	582190.46	146000.99	Identified in field walkdown. Spatial analysis using WCH GIS data indicates this feature is located within a pre-Hanford farmstead per 1943 aerial imagery.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-061	Electric cable.	582694.22	144887.25	Field verified 3/16/2009.	This feature has been classified as Stewardship.	S
SG4-062	6-m area of bare ground, no secondary evidence of debris or stains visible.	582627.35	144758.84	Field verified 3/17/2009.	This feature has been classified as Stewardship.	S
SG4-063	4-m area of bare ground, no secondary evidence of debris or stains visible.	582638.87	144747.08	Field verified 3/17/2009.	This feature has been classified as Stewardship.	S
SG4-064	5-m area of bare ground, no secondary evidence of debris or stains visible.	582575.23	144700.02	Field verified 3/17/2009.	This feature has been classified as Stewardship.	S
SG4-065	5-m area of bare ground, no secondary evidence of debris or stains visible.	582598.12	144698.46	Field verified 3/17/2009.	This feature has been classified as Stewardship.	S
SG4-066	6-m area of bare ground, no secondary evidence of debris or stains visible.	582615.98	144689.46	Field verified 3/17/2009.	This feature has been classified as Stewardship.	S
SG4-067	4-m area of bare ground, no secondary evidence of debris or stains visible.	582527.81	144695.63	Field verified 3/17/2009.	This feature has been classified as Stewardship.	S
SG4-068	4-m area of bare ground, no secondary evidence of debris or stains visible.	582692.95	144641.82	Field verified 3/17/2009.	This feature has been classified as Stewardship.	S
SG4-069	4-m area of bare ground, no secondary evidence of debris or stains visible.	582704.86	144629.43	Field verified 3/17/2009.	This feature has been classified as Stewardship.	S
SG4-070	River mile marker lying on ground.	582980.54	144717.74	Field verified 3/17/2009.	This feature has been classified as Stewardship.	S
SG4-071	50-m disturbed area, no debris or stains visible.	582923.94	144227.85	Field verified 3/17/2009. Spatial analysis using WCH GIS data indicates this feature is apparent in 1943 aerial imagery.	This feature has been classified as Stewardship.	S
SG4-079	South end of visible linear and associated terrain feature identified in LiDAR 3D base earth analysis data.	581228.03	145763.89		Spatial analysis using WCH GIS data indicates this feature to be associated with a telephone/fire communication line per Map 2900, sht 2 (8-21-1943). It has been classified as Stewardship.	S

Table 7-4. Segment 4 Orphan Sites Evaluation Summary. (57 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4-080	West end of linear.	579918.62	145944.75		Spatial analysis using WCH GIS data indicates a telephone line (H-6-173, sht 26, Rev. 2) is associated with this feature. This feature has been classified as Stewardship.	S
SG4-080	East end of linear.	580284.99	146166.07		Spatial analysis using WCH GIS data indicates a telephone line (H-6-173, sht 26, Rev. 2) is associated with this feature. This feature has been classified as Stewardship.	S
SG4-081	Section corner.	581873.43	145286.86	Identified in field walkdown.	This feature has been classified as Stewardship.	S
SG4-082	Steel rod that wraps around an irrigation line.	582655.66	145272.28	Identified in field walkdown.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-083	4- x 6-m depression, no secondary evidence of debris or stains.	582796.64	144956.70	Identified in field walkdown.	This feature has been classified as Stewardship.	S
SG4-084	Pipe sticking out of ground associated with a well 15 m due east of pipe. Well marker post.	582773.67	144892.99	Identified in field walkdown.	This feature has been classified as Stewardship.	S
SG4-085	Brake shoe.	582727.30	144828.46	Identified in field walkdown.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-086	Two pieces of metal debris.	582795.55	144750.65	Identified in field walkdown.	This feature consists of pre-Hanford debris and has been classified as Stewardship.	S
SG4-087	2-m-diameter area of bare ground, no secondary evidence of debris or stains visible.	583194.27	143945.12	Identified in field walkdown.	This feature has been classified as Stewardship.	S
SG4-088	2-m-diameter area of bare ground, no secondary evidence of debris or stains visible.	583163.43	143978.58	Identified in field walkdown.	This feature has been classified as Stewardship.	S

Table 7-4. Segment 4 Orphan Sites Evaluation Summary. (57 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4-090	North end of a visible linear and associated terrain feature identified in LiDAR 3D base earth analysis data.	580652.79	146765.20		A spatial analysis using WCH GIS data revealed no Hanford-related utilities associated with this linear; therefore, no suspected source of contamination has been identified. It has been classified as Stewardship.	S
SG4-091	South end of linear. There are 3 mounds visible in this linear in a 19-m area.	580233.47	145721.95		Spatial analysis using WCH GIS data indicates this feature to be associated with a telephone/fire communication line per Map 2900, sht 2 (8-21-1943). It has been classified as Stewardship.	S
SG4-091	North end of linear.	580211.04	146357.26		Spatial analysis using WCH GIS data indicates this feature to be associated with a telephone/fire communication line per Map 2900, sht 2 (8-21-1943). It has been classified as Stewardship.	S
SG4-095	South end of linear.	581816.43	145123.86		This feature is an old road visible in WCH GIS data (1948 imagery) and has been classified as Stewardship.	S
SG4-096	South end of a visible linear and associated terrain feature identified in LiDAR 3D base earth analysis data.	580625.00	146229.29	This feature is visible in 1948 imagery.	A spatial analysis using WCH GIS data revealed no Hanford-related utilities associated with this linear; therefore, no suspected source of contamination has been identified. It has been classified as Stewardship.	S
SG4-097	North end of linear.	580335.01	146121.71		This feature is an old road visible in WCH GIS data (1948 imagery) and has been classified as Stewardship.	S
SG4-097	South end of linear.	580394.97	146036.73		This feature is an old road visible in WCH GIS data (1948 imagery) and has been classified as Stewardship.	S
SG4-098	South end of linear.	580025.57	145446.90		Spatial analysis using WCH GIS data indicates this feature to be Pierce railroad siding per H-6-173, sht 26, Rev. 1. This feature has been classified as Stewardship.	S

Table 7-4. Segment 4 Orphan Sites Evaluation Summary. (57 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4-098	North end of linear.	579981.64	145536.91		Spatial analysis using WCH GIS data indicates this feature to be Pierce railroad siding per H-6-173, sht 26, Rev. 1. This feature has been classified as Stewardship.	S
SG4-099	North end of linear.	579984.06	145543.24		Spatial analysis using WCH GIS data indicates this feature to be Pierce railroad siding per H-6-173, sht 26, Rev. 1. This feature has been classified as Stewardship.	S
SG4-099	South end of linear.	580026.15	145456.40		Spatial analysis using WCH GIS data indicates this feature to be Pierce railroad siding per H-6-173, sht 26, Rev. 1. This feature has been classified as Stewardship.	S
SG4-100	South end of linear.	580041.48	145467.32		Spatial analysis using WCH GIS data indicates this feature to be associated with a telephone/fire communication line per Map 2900, sht 2 (8-21-1943). It has been classified as Stewardship.	S
SG4-100	North end of linear.	580009.23	145532.66		Spatial analysis using WCH GIS data indicates this feature to be associated with a telephone/fire communication line per Map 2900, sht 2 (8-21-1943). It has been classified as Stewardship.	S
SG4-101	East end of linear.	582652.36	145269.59		Spatial analysis using WCH GIS data indicates this feature to be associated with a pre-Hanford 1943 road (aerial imagery). This feature has been classified as Stewardship.	S
SG4-101	West end of linear.	582079.27	144942.03		Spatial analysis using WCH GIS data indicates this feature to be associated with a pre-Hanford 1943 road (aerial imagery). This feature has been classified as Stewardship.	S

Table 7-4. Segment 4 Orphan Sites Evaluation Summary. (57 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4-102	North end of linear.	582474.56	145016.64		Spatial analysis using WCH GIS data indicates this feature to be associated with a pre-Hanford 1943 linear (aerial imagery). This feature has been classified as Stewardship.	S
SG4-102	South end of linear.	582481.97	144666.34		Spatial analysis using WCH GIS data indicates this feature to be associated with a pre-Hanford 1943 linear (aerial imagery). This feature has been classified as Stewardship.	S
SG4-103	North end of linear.	582653.30	145253.47		Spatial analysis using WCH GIS data indicates this feature to be associated with a pre-Hanford 1943 road (aerial imagery). This feature has been classified as Stewardship.	S
SG4-103	South end of linear.	582675.12	144964.73		Spatial analysis using WCH GIS data indicates this feature to be associated with a pre-Hanford 1943 road (aerial imagery). This feature has been classified as Stewardship.	S
SG4-104	South end of linear.	582681.04	144418.02		Spatial analysis using WCH GIS data indicates this feature to be associated with a pre-Hanford 1943 road (aerial imagery). This feature has been classified as Stewardship.	S
SG4-104	North end of linear.	582679.72	144605.87		Spatial analysis using WCH GIS data indicates this feature to be associated with a pre-Hanford 1943 road (aerial imagery). This feature has been classified as Stewardship.	S
SG4-105	North end of linear.	582807.51	144659.45		Spatial analysis using WCH GIS data revealed no Hanford-related utilities associated with this linear, therefore no suspected source of contamination has been identified. It has been classified as Stewardship.	S

Table 7-4. Segment 4 Orphan Sites Evaluation Summary. (57 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4-105	South end of linear.	582897.47	144491.97		Spatial analysis using WCH GIS data revealed no Hanford-related utilities associated with this linear; therefore, no suspected source of contamination has been identified. It has been classified as Stewardship.	S
SG4-106	West end of linear two linears 18 m apart.	582304.11	144869.04		Spatial analysis using WCH GIS data indicates this feature to be associated with a pre-Hanford road (1943 and 1948 aerial imagery). This feature has been classified as Stewardship.	S
SG4-106	East end of linear.	582666.00	144853.71		Spatial analysis using WCH GIS data indicates this feature to be associated with a pre-Hanford road (1943 and 1948 aerial imagery). This feature has been classified as Stewardship.	S
SG4-107	West end of linear.	582614.54	144503.27		Spatial analysis using WCH GIS data indicates this feature to be associated with a 1948 road (1948 aerial imagery). This road was not apparent in 1943 imagery. This feature has been classified as Stewardship.	S
SG4-107	East end of linear.	582666.28	144517.27		Spatial analysis using WCH GIS data indicates this feature to be associated with a 1948 road (1948 aerial imagery). This road was not apparent in 1943 imagery. This feature has been classified as Stewardship.	S
SG4-109	One decayed timber with spikes.	578539.27	149488.92		This feature has been classified as Stewardship.	S
SG4-110	Southern end of a 625-m linear consisting of cut off utility poles spaced 100 m apart.	578526.09	149498.07		Spatial analysis using WCH GIS data indicates this feature to be associated with a pre-Hanford road (1943 aerial imagery). This feature has been classified as Stewardship.	S

Table 7-4. Segment 4 Orphan Sites Evaluation Summary. (57 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4-110	North end of a 625-m linear consisting of cut off utility poles spaced 100 m apart.	578507.38	150124.59		Spatial analysis using WCH GIS data indicates this feature to be associated with a pre-Hanford road (1943 aerial imagery). This feature has been classified as Stewardship.	S
SG4-111	10- x 80- x 1-m excavation area with no debris or staining visible.	578486.10	149495.01	Spatial analysis using WCH GIS data indicates this feature is not visible in 1943 imagery, but is visible in 1948 imagery. It is also next to the White Bluffs aggregate plant railroad spur.	This feature has been classified as Stewardship.	S
SG4-112	Twelve cut-out drum lids in a 7-m area. No secondary staining visible.	578659.08	149577.98	Spatial analysis using WCH GIS data indicates this feature is next to the White Bluffs aggregate plant railroad spur.	This feature has been classified as Stewardship.	S
SG4-113	Survey marker.	578618.39	149578.75		This feature has been classified as Stewardship.	S
SG4-114	2-m-diameter concrete cleanout.	578473.50	149577.05		This feature has been classified as Stewardship.	S
SG4-115	19-L (5- gal) empty bucket; no staining visible.	577836.00	149563.13		This feature has been classified as Stewardship.	S
SG4-116	Two oil filters; no staining visible.	578776.78	149635.66		This feature has been classified as Stewardship.	S
SG4-117	Farmstead fence and posts.	578551.77	149621.72		This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-118	5-m farmstead debris area consisting of metal and glass.	577785.98	149575.98		This feature has been classified as Stewardship.	S
SG4-119	57-L (15-gal) crushed drum; no staining visible.	578877.46	149683.47		This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-120	Crushed drum, not able to determine size; no staining visible.	578841.17	149675.26	Spatial analysis using WCH GIS data indicates this feature is approximately 43 m southeast of the White Bluffs aggregate plant railroad spur.	This feature has been classified as Stewardship.	S

Table 7-4. Segment 4 Orphan Sites Evaluation Summary. (57 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4-121	1-m-diameter stained soil.	578834.19	149680.06	Spatial analysis using WCH GIS data indicates this feature is approximately 35 m southeast of the White Bluffs aggregate plant railroad spur. Further assessment with regulators and DOE-RL determined this to be Stewardship.	This feature is classified as Stewardship.	S
SG4-122	Survey monument.	578618.34	149677.28		This feature has been classified as Stewardship.	S
SG4-123	5-m area wire rope, concrete, and metal can.	578517.49	149695.08	Spatial analysis using WCH GIS data indicates this feature is at an intersection of two pre-Hanford roads and 70 m west of farm structures (1943 imagery).	This feature has been classified as Stewardship.	S
SG4-124	Survey monument.	578579.92	149700.58		This feature has been classified as Stewardship.	S
SG4-125	Farmstead debris consisting of bricks and metal debris.	578593.76	149713.41		This feature consists of pre-Hanford debris (1943 imagery indicates a farm structure) and is classified as a Stewardship.	S
SG4-126	1-m-diameter area of bare ground with moss.	578736.94	149709.25		This feature has been classified as Stewardship.	S
SG4-127	8-m-diameter area of farmstead debris consisting of glass, metal wood and a 19-L (5-gal) bucket.	578720.41	149759.54		This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-128	Survey monument.	578578.84	149822.32		This feature has been classified as Stewardship.	S
SG4-129	114-L (30-gal) crushed drum, no staining visible.	578023.42	149923.41		This feature is classified as Stewardship.	S
SG4-130	8-m-diameter area of farmstead debris consisting metal cans and sheet metal and glass.	578838.05	149928.00		This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-131	1.5-m-diameter below-grade concrete-lined structure, unknown depth.	578439.32	149989.27		Spatial analysis using WCH GIS data indicates this feature to be associated with a pre-Hanford farmstead (1943 imagery). This feature has been classified as Stewardship.	S
SG4-132	Survey monument and concrete cleanout 1 m in diameter.	578578.27	149944.30		This feature has been classified as Stewardship.	S

Table 7-4. Segment 4 Orphan Sites Evaluation Summary. (57 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4-133	5-m-diameter area of metal debris (conduit).	578536.26	150012.87		Spatial analysis using WCH GIS data indicates this feature to be associated with a pre-Hanford farmstead (1943 imagery). This feature has been classified as Stewardship.	S
SG4-134	Survey monument.	578578.67	150066.16		This feature has been classified as Stewardship.	S
SG4-135	30-m-diameter area of pre-Hanford scattered debris consisting of a wood-lined well safety hazard, wood and metal debris, and the remains of a dry cell battery.	578612.63	150079.72		This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-136	Concrete cleanout 1 m in diameter.	578482.90	150097.23		This feature has been classified as Stewardship.	S
SG4-137	Concrete cleanout 0.5 m in diameter.	577727.82	150099.10		This feature has been classified as Stewardship.	S
SG4-138	2-m-diameter concrete-lined below-grade feature.	577681.23	150085.80		Spatial analysis using WCH GIS data indicates this feature to be associated with a pre-Hanford farmstead (1943 imagery). This feature has been classified as Stewardship.	S
SG4-139	Five oil filters in a 1-m area no staining visible.	578631.47	150164.17		This feature has been classified as Stewardship.	S
SG4-140	Survey monument.	578578.83	150188.40		This feature has been classified as Stewardship.	S
SG4-141	5-m-diameter concentration of metal wire.	578240.19	150233.94		This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-142	2-m-diameter concrete-lined below-grade structure.	577704.74	150193.26		This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-143	15-m-diameter area of white chalky substance in multiple locations appears to be either grout or bentonite.	579060.73	150280.00	Spatial analysis using WCH GIS data indicates this feature is approximately 46 m east of the White Bluffs aggregate plant railroad spur.	This feature has been classified as an Orphan Site.	OS
SG4-144	2-m-diameter concrete cleanout.	579255.69	150363.20		This feature has been classified as Stewardship.	S

Table 7-4. Segment 4 Orphan Sites Evaluation Summary. (57 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4-145	3-m-long 15-cm-diameter carbon steel pipe.	578942.21	150379.49	Spatial analysis using WCH GIS data indicates this feature is approximately 60 m west of the White Bluffs aggregate plant railroad spur and close to the former White Bluffs aggregate plant site.	This feature has been classified as Stewardship.	S
SG4-146	35-m-diameter area of railroad debris, wood, and metal mixed in a pile of cobbles.	578930.43	150441.68	Spatial analysis using WCH GIS data indicates this feature is approximately 70 m west of the White Bluffs aggregate plant railroad spur and next to the former White Bluffs aggregate plant abandoned tunnel.	This feature has been classified as Stewardship.	S
SG4-147	206-L (55-gal) crushed drum, no staining visible.	579143.57	150472.05		This feature has been classified as Stewardship.	S
SG4-148	Metal component attached to a strap with a wire protruding out one end.	578743.72	150284.31		This feature has been classified as Stewardship.	S
SG4-149	Survey monument.	578578.32	150310.10		This feature has been classified as Stewardship.	S
SG4-150	1-m area of bare ground and oil filter	578666.74	150323.91		This feature is classified as an Orphan Site.	OS
SG4-151	One oil filter lying on the ground, no stained soil visible.	578588.11	150358.57		This feature has been classified as Stewardship.	S
SG4-152	2-m-diameter 1 m deep concrete-lined below-grade structure.	578470.66	150340.58		Spatial analysis using WCH GIS data indicates this feature to be associated with a pre-Hanford farmstead (1943 imagery). This feature has been classified as Stewardship.	S
SG4-153	0.6-m x 0.3-m sheet of Transite siding.	577707.41	150312.90		This feature has been classified as Stewardship.	S
SG4-154	30-m-diameter area with a concentration of pre-Hanford farmstead wire.	577896.04	150323.22		This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-155	2-m-diameter bare ground area with an oil filter.	578082.80	150315.88		This feature is classified as an Orphan Site.	OS
SG4-156	2-m-diameter concrete-lined below-grade structure.	578310.24	150329.56		Spatial analysis using WCH GIS data indicates this feature to be associated with a pre-Hanford farmstead (1943 imagery). This feature has been classified as Stewardship.	S

Table 7-4. Segment 4 Orphan Sites Evaluation Summary. (57 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4-157	One oil filter lying on the ground.	578659.00	150408.17		This feature has been classified as Stewardship.	S
SG4-158	57-L (15-gal) empty drum, no staining visible.	577811.79	150396.62		This feature is classified as Stewardship.	S
SG4-159	3-m-diameter bare ground with white stain and crusted soil/glass debris.	578471.14	150388.87	Spatial analysis using WCH GIS data indicates this feature is located at a pre-Hanford farmstead (1943 imagery).	Spatial analysis using WCH GIS data indicates this feature is located at a pre-Hanford farmstead (1943 imagery). This feature is classified as an Orphan Site.	OS
SG4-160	4-m-diameter area of empty metal cans, no visible stains.	578031.30	150432.25		Spatial analysis using WCH GIS data indicates this feature is located next to a pre-Hanford road (1943 imagery). This feature is classified as Stewardship.	S
SG4-161	20-m-diameter area consisting of a concrete cleanout and concrete chunks.	579224.37	150517.18		This feature has been classified as Stewardship.	S
SG4-162	8-cm-diameter galvanized pipe protruding out of the ground 61 cm.	578223.50	150530.44		Spatial analysis using WCH GIS data indicates this feature is located at a pre-Hanford orchard (1943 imagery). This feature has been classified as Stewardship.	S
SG4-163	57-L (15-gal) crushed drum, no staining visible.	577992.83	150535.15		This feature is classified as Stewardship.	S
SG4-164	57-L (15-gal) crushed drum, no staining visible.	578026.98	150506.78		This feature is classified as Stewardship.	S
SG4-165	Two concrete cleanouts and a 6-m-long pipe.	579183.21	150596.73		This feature has been classified as Stewardship.	S
SG4-166	Combine.	579050.68	150574.90		This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-167	Oil filter, no staining visible.	578901.18	150582.18		This feature has been classified as Stewardship.	S
SG4-168	12-m-diameter area of ash within a known farmstead area.	578199.03	150584.30		This feature has been classified as Stewardship.	S
SG4-169	10-m area of metal and glass debris.	577953.21	150602.75		This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-170	20-m-diameter area of metal and glass debris.	577753.18	150607.13		This feature consists of pre-Hanford debris and is classified as Stewardship.	S

Table 7-4. Segment 4 Orphan Sites Evaluation Summary. (57 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4-171	8-m area of metal debris.	577729.00	150549.49		This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-172	2-m-diameter concrete-lined below-grade structure.	578207.85	150621.20		Spatial analysis using WCH GIS data indicates this feature is located at a pre-Hanford farmstead (1943 imagery). This feature has been classified as Stewardship.	S
SG4-173	Telephone junction box.	577699.43	150643.72		This feature has been classified as Miscellaneous Restoration.	MR
SG4-174	206-L (55-gal) empty galvanized drum, no staining visible.	579058.72	150604.23	Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	This feature has been classified as Miscellaneous Restoration.	MR
SG4-175	Carbon steel pipes visible in a sink hole. One is 46-cm diameter trending north-south; the second is a 5-cm diameter running east-west.	579161.72	150655.97		Spatial analysis using WCH GIS data indicates this feature is located at a pre-Hanford farmstead next to the river (1943 imagery), and 40 m east of the White Bluffs aggregate plant railroad spur. This feature has been classified as Stewardship.	S
SG4-176	30-m area of farmstead debris, metal, glass, wood.	577749.79	150703.39		This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-177	4-m-diameter area of farmstead debris, mostly glass, some metal cans.	578471.97	150716.19		This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-178	2-m-diameter concrete-lined below-grade structure.	578225.56	150737.66		Spatial analysis using WCH GIS data indicates this feature is located at a pre-Hanford farmstead (1943 imagery). This feature has been classified as Stewardship.	S
SG4-179	12-m-diameter area of ash with no visible debris.	578065.80	150736.20	Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	This feature has been classified as Stewardship.	S
SG4-180	5-m-diameter area of concrete and metal irrigation debris.	577894.69	150740.10	Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-181	3-m-diameter area of metal debris.	577712.69	150730.50	Spatial analysis using WCH GIS data indicates this feature is 6 m from a known pre-Hanford farmstead.	This feature has been classified as Stewardship.	S

Table 7-4. Segment 4 Orphan Sites Evaluation Summary. (57 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4-182	5-m area of metal and concrete irrigation debris.	577702.13	150752.64	Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-183	2-m area of metal debris.	578330.35	150800.85	Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-184	6-m-diameter area of ash with no visible debris.	578240.44	150797.28	Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	This feature has been classified as Stewardship.	S
SG4-185	114-L (30-gal) crushed drum, no staining visible.	577983.68	150817.65	Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	This feature is classified as Stewardship.	S
SG4-186	206-L (55-gal) crushed drum, no staining visible.	577779.75	150847.48	Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	This feature is classified as Stewardship.	S
SG4-188	5- m area of broken concrete.	578425.48	150856.83	Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	This feature has been classified as Stewardship.	S
SG4-189	Vehicle radiator.	578927.53	150920.24	Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-190	One oil filter core.	578720.08	150901.75	Spatial analysis using WCH GIS data indicates this feature is 21 m from a known pre-Hanford farmstead.	This feature is classified as Stewardship.	S
SG4-191	30-m area of asphalt debris.	578500.67	150950.78	Spatial analysis using WCH GIS data indicates this feature is 3 m from a known pre-Hanford farmstead.	This feature has been classified as Stewardship.	S
SG4-192	3-m-diameter area of metal debris.	577920.35	150942.19	Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	This feature has been classified as Stewardship.	S
SG4-193	1-m piece of metal debris.	577808.27	150945.11	Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	This feature has been classified as Stewardship.	S
SG4-194	6-m area of metal debris.	577742.05	150929.15	Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	This feature has been classified as Stewardship.	S
SG4-195	5-m area concrete cleanout.	577753.30	150927.43		This feature has been classified as Stewardship.	S

Table 7-4. Segment 4 Orphan Sites Evaluation Summary. (57 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4-196	75- x 18- m trench, no staining visible. Asphalt and metal farmstead wheels and debris are within the trench.	576757.28	150912.09	Field verified on 11/3/2010. Spatial analysis using WCH GIS data indicates this feature is not apparent in the 1943 imagery, but is visible in 1948 imagery.	This feature has been classified as Stewardship.	S
SG4-197	3 m in diameter concrete cleanout.	576845.45	150928.66	Field verified on 11/3/2010.	This feature has been classified as Stewardship.	S
SG4-198	2-m-diameter concrete cleanout.	576904.80	150937.91	Field verified on 11/3/2010.	This feature has been classified as Stewardship.	S
SG4-199	12-m-diameter area with four concrete transmission tower footings.	577079.30	150904.10	Field verified on 11/3/2010.	Spatial analysis using WCH GIS data indicates this feature is associated with a 230 KV feeder line per west-71484, sht 1, Rev. 7. This feature has been classified as Stewardship.	S
SG4-200	3-m-diameter concrete cleanout.	577312.50	150902.84	Field verified on 11/3/2010.	This feature has been classified as Stewardship.	S
SG4-201	1-m-diameter concrete cleanout.	577341.85	150928.54	Field verified on 11/3/2010.	This feature has been classified as Stewardship.	S
SG4-202	5-m-diameter area of ash and wood debris.	577563.01	150900.15	Field verified on 11/2/2010. Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	This feature has been classified as Stewardship.	S
SG4-203	30-m-diameter area of farmstead debris including metal cans, sheet metal, fence wire, and concrete. Poly walked.	577574.25	150865.54	Field verified on 11/2/2010. Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-204	3 m in diameter disturbed area with no debris or staining visible.	577082.69	150887.88	Field verified on 11/3/2010.	This feature has been classified as Stewardship.	S
SG4-205	1-m concrete footing that is part of feature SG4-199 transmission tower footings.	577077.90	150899.21	Field verified on 11/3/2010.	This feature has been classified as Stewardship.	S
SG4-206	5-m-diameter area of fencing wire debris.	577101.60	150792.21	Field verified on 11/3/2010.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-207	25-m-long section of fencing debris.	577417.48	150823.81	Field verified on 11/2/2010.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-208	10-m-diameter area of debris including fence wire, and truck parts.	577590.54	150738.66	Field verified on 11/2/2010.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S

Table 7-4. Segment 4 Orphan Sites Evaluation Summary. (57 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4-209	9-m-diameter disturbed area with concrete irrigation and scattered metal debris.	577104.86	150701.34	Field verified on 11/3/2010.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-210	25- x 3-m-long area of scattered concrete irrigation debris.	577093.00	150679.18	Field verified on 11/3/2010.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-211	60-m-long section of fencing debris.	576853.53	150778.40	Field verified on 11/3/2010.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-212	This feature is a rolled up ball of used barbwire, metal cans, and a drum lid.	576899.28	150747.56	Field verified on 11/3/2010.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-213	40-m-diameter area of farmstead debris consisting of a heavy concentration of metal cans, sheet metal, car parts, glass, and concrete.	576485.89	150639.98	Field verified on 11/3/2010.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-214	12-m-diameter area with four concrete transmission tower footings.	577020.28	150629.93	Field verified on 11/3/2010.	Spatial analysis using WCH GIS data indicates this feature is associated with a 230 KV feeder line per west-71484, sht 1, Rev. 7. This feature has been classified as Stewardship.	S
SG4-215	12-m-diameter area with four concrete transmission tower footings.	576386.19	150560.40	Field verified on 11/3/2010.	Spatial analysis using WCH GIS data indicates this feature is associated with a 230 KV feeder line per west-71484, sht 1, Rev. 7. This feature has been classified as Stewardship.	S
SG4-216	22-m-diameter area of scattered farmstead debris consisting of metal, glass, concrete chunks, buckets, cans, and a stove.	576739.13	150582.86	Field verified on 11/3/2010.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-217	7-m-diameter area of farmstead debris including fence wire, sheet metal, cans, and concrete debris.	576874.03	150563.89	Field verified on 11/3/2010.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-218	5-m area of concrete cleanouts.	576890.11	150553.79	Field verified on 11/3/2010.	This feature has been classified as Stewardship.	S

Table 7-4. Segment 4 Orphan Sites Evaluation Summary. (57 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4-219	20-m farmstead area with a 1.5-m below-grade concrete structure possible a cistern and a concrete foundation within a farmstead area.	577117.07	150572.99	Field verified on 11/3/2010.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-220	8-m-diameter depression and scattered irrigation debris including concrete and metal pipe.	577475.02	150526.62	Field verified on 11/4/2010.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-221	75-m area of scattered farmstead debris consisting of glass, cans, buckets, car body parts, and a variety of other items.	576644.91	150485.63	Field verified on 11/3/2010.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-222	8-m-diameter area of concrete and metal debris associated with a concrete irrigation weir box.	576145.65	150304.83	Field verified on 11/9/2010.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-223	8-m-diameter area of wood debris left from a crossing for the export water line.	576250.06	150331.25	Field verified on 11/9/2010.	This feature has been classified as Stewardship.	S
SG4-224	1- x 1-m concrete irrigation weir box.	576341.17	150338.32	Field verified on 11/9/2010.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-225	12-m-diameter area with four concrete transmission tower footings.	576959.72	150339.57	Field verified on 11/4/2010.	Spatial analysis using WCH GIS data indicates this feature is associated with a 230 KV feeder line per west-71484, sht 1, Rev. 7. This feature has been classified as Stewardship.	S
SG4-226	Multiple dirt mounds within a farmstead area.	577320.93	150355.57	Field verified on 11/4/2010. Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	This feature has been classified as Stewardship.	S
SG4-227	Multiple dirt mounds within a farmstead area.	577323.98	150339.51	Field verified on 11/4/2010. Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	This feature has been classified as Stewardship.	S
SG4-228	15-m area with a 1- x 1-m concrete irrigation weir box and concrete debris.	577513.27	150328.91	Field verified on 11/4/2010.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S

Table 7-4. Segment 4 Orphan Sites Evaluation Summary. (57 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4-229	North end of a 145-m irrigation linear with a broken concrete weir box and a valve protruding above ground level.	577594.78	150327.36	Field verified on 11/4/2010.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-229	South end of a 145-m irrigation linear with concrete vent pipes protruding above ground level.	577553.21	150187.34	Field verified on 11/4/2010.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-230	10-m-long wood utility pole lying on the ground.	577300.56	150250.43	Field verified on 11/4/2010.	This feature has been classified as Stewardship.	S
SG4-231	5 m of scattered debris visible in aerial photography.	577117.50	150291.47	Field verified on 11/4/2010.	Field verification determined nothing visible at this location. This feature has been classified as No Further Evaluation.	NFE
SG4-232	12-m-diameter area with four concrete transmission tower footings.	576246.82	150265.05	Field verified on 11/9/2010.	Spatial analysis using WCH GIS data indicates this feature is associated with a 230 KV feeder line per west-71484, sht 1, Rev. 7. This feature has been classified as Stewardship.	S
SG4-233	206-L (55-gal) empty drum (crushed) with bare ground visible.	576207.11	150290.57	Field verified on 11/9/2010.	This feature is classified as an Orphan Site.	OS
SG4-234	206- L (55-gal) crushed drum, no staining visible.	576204.71	150275.47	Field verified on 11/9/2010. Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	This feature is classified as Stewardship.	S
SG4-235	1- x 1-m concrete irrigation weir box.	576020.10	150250.97	Field verified on 11/9/2010.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-236	2-m area of bare ground no secondary evidence visible.	575887.68	150187.22	Field verified on 11/10/2010. Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	This feature has been classified as Stewardship.	S
SG4-237	40-m area with a heavy concentration of farmstead debris including car parts, sheet metal, cans, bottles, and wood debris.	577175.14	150201.73	Field verified on 11/4/2010.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-238	5-m area of orchard tree trunks on a mound of dirt.	577342.93	150206.64	Field verified on 11/4/2010.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S

Table 7-4. Segment 4 Orphan Sites Evaluation Summary. (57 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4-239	6-m area of scattered farmstead debris including a metal stove, buckets, cans, and wood.	577513.29	150227.37	Field verified on 11/4/2010.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-240	2-m-diameter concrete-lined below-grade structure with a ladder going down the inside the feature.	575888.12	150158.51	Field verified on 11/10/2010.	Spatial analysis using WCH GIS data indicates this feature is located at a pre-Hanford farmstead (1943 imagery). This feature has been classified as Stewardship.	S
SG4-241	11-m area consisting of concrete from a busted up irrigation weir box.	576015.14	150124.87	Field verified on 11/10/2010.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-242	3-m-diameter depression that appears to be at the southeast corner of an old foundation.	576088.14	150132.79	Field verified on 11/10/2010.	Spatial analysis using WCH GIS data indicates this feature is located at a pre-Hanford farmstead (1943 imagery). This feature has been classified as Stewardship.	S
SG4-243	8.5-m-long wood utility pole lying on the ground.	576157.35	150149.14	Field verified on 11/10/2010.	This feature has been classified as Stewardship.	S
SG4-244	9.5-m-long wood utility pole lying on the ground.	576770.27	150142.97	Field verified on 11/4/2010.	This feature has been classified as Stewardship.	S
SG4-245	40-m-diameter area of farmstead debris including bottles, cans, sheet metal, car parts, and two concrete cleanouts.	577213.53	150149.53	Field verified on 11/4/2010.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-246	29-m area with three concrete cleanouts.	575986.99	150071.98	Field verified on 11/10/2010.	This feature has been classified as Stewardship.	S
SG4-247	2- x 2-m concrete foundation.	577209.34	150108.16	Field verified on 11/4/2010.	Spatial analysis using WCH GIS data indicates this feature is located at a pre-Hanford farmstead (1943 imagery). This feature has been classified as Stewardship.	S
SG4-248	10-m vegetation anomaly visible in aerial photography.	577323.19	150098.75	Field verified on 11/4/2010.	Field verification determined vegetation to be normal in appearance. This feature has been classified as No Further Evaluation.	NFE
SG4-249	6.5-m debris area of farmstead debris consisting of cans, glass, wire, and scattered metal.	575678.58	150046.50	Field verified on 11/10/2010.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S

Table 7-4. Segment 4 Orphan Sites Evaluation Summary. (57 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4-250	12-m-diameter area with four concrete transmission tower footings.	576125.81	150008.88	Field verified on 11/10/2010.	Spatial analysis using WCH GIS data indicates this feature is associated with a 230 KV feeder line per west-71484, sht 1, Rev. 7. This feature has been classified as Stewardship.	S
SG4-251	2-m area of debris consisting of a roll of chicken wire.	576241.96	150040.57	Field verified on 11/10/2010.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-252	11-m-long decaying utility pole lying on the ground.	576490.31	150032.84	Field verified on 11/9/2010.	This feature has been classified as Stewardship.	S
SG4-253	12-m-diameter area with four concrete transmission tower footings.	576891.23	150013.01	Field verified on 11/10/2010.	Spatial analysis using WCH GIS data indicates this feature is associated with a 230 KV feeder line per west-71484, sht 1, Rev. 7. This feature has been classified as Stewardship.	S
SG4-254	1-m concrete irrigation weir box.	577462.10	150002.29		This feature consists of pre-Hanford debris and is classified as a Stewardship.	S
SG4-255	100-m-diameter area of pre-Hanford farmstead debris consisting of foundations, concrete, wire, wood, and other farmstead items.	576761.65	149954.49	Field verified on 11/9/2010.	This feature consists of pre-Hanford debris and is classified as a Stewardship.	S
SG4-256	6-m area of wood debris associated with the export water line.	576907.04	149893.33	Field verified on 11/9/2010.	This feature has been classified as Stewardship.	S
SG4-257	2-m-diameter concrete cleanout. This feature is a gravel dump from the railroad.	575255.75	149870.58	Field verified on 11/15/2010.	This feature has been classified as Stewardship.	S
SG4-258	13-m area of farmstead debris consisting of automobile body parts, fender, running boards.	575824.28	149868.73	Field verified on 11/10/2010.	This feature consists of pre-Hanford debris and is classified as a Stewardship.	S
SG4-259	21-m section of concrete irrigation line.	576805.95	149856.63	Field verified on 11/9/2010.	This feature consists of pre-Hanford debris and is classified as a Stewardship.	S
SG4-260	5-m area of farmstead metal debris consisting of cans and aluminum siding.	575370.47	149820.73	Field verified on 11/15/2010.	This feature consists of pre-Hanford debris and is classified as a Stewardship.	S

Table 7-4. Segment 4 Orphan Sites Evaluation Summary. (57 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4-261	12-m-diameter area with four concrete transmission tower footings and three bundles of insulators. Poly walked.	576022.17	149788.88	Field verified on 11/10/2010.	Spatial analysis using WCH GIS data indicates this feature is associated with a 230 KV feeder line per west-71484, sht 1, Rev. 7. This feature has been classified as Stewardship.	S
SG4-262	6-m concrete cleanout.	576177.63	149800.05	Field verified on 11/10/2010.	This feature has been classified as Stewardship.	S
SG4-263	6-m concrete cleanout.	576218.58	149765.24	Field verified on 11/10/2010.	This feature has been classified as Stewardship.	S
SG4-264	2-m area of farmstead debris consisting of metal automobile body parts.	575030.32	149726.15	Field verified on 11/15/2010.	This feature consists of pre-Hanford debris and is classified as a Stewardship.	S
SG4-265	6-m concrete cleanout.	576229.25	149746.94	Field verified on 11/10/2010.	This feature has been classified as Stewardship.	S
SG4-266	206-L (55-gal) empty drum with the top cut out, no staining visible.	574773.79	149697.86	Field verified on 11/15/2010.	This feature has been classified as Miscellaneous Restoration.	MR
SG4-267	36-m-diameter area of concrete guy wire anchors.	575661.01	149613.89		Spatial analysis using WCH GIS data indicates this feature is former 230 KV switch station A-14. This feature has been classified as Stewardship.	S
SG4-268	25-m-diameter area of decayed wood panels.	575742.37	149628.39		This feature has been classified as Stewardship.	S
SG4-269	1- x 1-m concrete irrigation weir box.	577398.66	149631.80	Field verified on 11/9/2010.	This feature consists of pre-Hanford debris and is classified as a Stewardship.	S
SG4-270	4-m-diameter depression, no debris or staining visible.	574877.25	149549.62	Field verified on 11/15/2010.	This feature has been classified as Stewardship.	S
SG4-271	15-m area with six cut-off utility poles protruding from the ground.	575454.80	149547.12		This feature is associated with a utility line and has been classified as Stewardship.	S
SG4-272	12-m-diameter area with four concrete transmission tower footings.	575905.43	149540.45		Spatial analysis using WCH GIS data indicates this feature is associated with a 230 KV feeder line per west-71484, sht 1, Rev. 7. This feature has been classified as Stewardship.	S
SG4-273	1-m utility wooden spool.	575934.28	149554.89		This feature has been classified as Stewardship.	S

Table 7-4. Segment 4 Orphan Sites Evaluation Summary. (57 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4-274	Two parallel concrete slabs 2 x 32 m spaced 15 m apart. No secondary debris or staining.	576266.56	149515.29	Field verified on 11/10/2010.	Spatial analysis using WCH GIS data indicates this feature is not apparent in the 1943, but is visible in 1948 imagery. This feature has been classified as Stewardship.	S
SG4-275	90-m-diameter area of farmstead debris consisting of concrete, ash, and scattered debris.	576974.71	149537.23	Field verified on 11/9/2010.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-276	1- x 1-m concrete irrigation weir box.	577162.14	149562.39	Field verified on 11/9/2010.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-277	3-m-diameter area of debris consisting of fencing posts, wire, and concrete chunks.	577333.04	149570.59	Field verified on 11/9/2010. Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-278	46-m-diameter area with multiple concrete footings related to transmission lines.	575780.95	149455.19		Spatial analysis using WCH GIS data indicates this feature is former 230 KV switch station A-17. This feature has been classified as Stewardship.	S
SG4-279	1- x 1-m concrete irrigation weir box.	576710.66	149509.20	Field verified on 11/9/2010.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-280	2-m-diameter area of ash with no visible debris.	576156.26	149407.64	Field verified on 11/10/2010. Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	This feature has been classified as Stewardship.	S
SG4-281	15-m area with six cut-off utility poles protruding from the ground. This feature is a crossing for the irrigation canal.	574712.72	149377.39	Field verified on 11/15/2010.	This feature has been classified as Stewardship.	S
SG4-282	3.5-m-diameter area of ash with no visible debris.	576277.99	149362.83	Field verified on 11/10/2010. Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	This feature has been classified as Stewardship.	S
SG4-283	2-m-diameter depression with no staining or debris visible.	576306.07	149380.86	Field verified on 11/10/2010. Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	This feature has been classified as Stewardship.	S

Table 7-4. Segment 4 Orphan Sites Evaluation Summary. (57 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4-284	12-m-diameter area with four concrete transmission tower footings.	576760.86	149395.65	Field verified on 11/9/2010.	Spatial analysis using WCH GIS data indicates this feature is associated with a 230 KV feeder line per west-71484, sht 1, Rev. 7. This feature has been classified as Stewardship.	S
SG4-285	12-m-diameter area with four concrete transmission tower footings.	576827.16	149708.67	Field verified on 11/9/2010.	Spatial analysis using WCH GIS data indicates this feature is associated with a 230 KV feeder line per west-71484, sht 1, Rev. 7. This feature has been classified as Stewardship.	S
SG4-286	9- x 5-m concrete foundation.	576973.13	149395.04	Field verified on 11/9/2010. Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	Spatial analysis using WCH GIS data indicates this feature is apparent in the 1943 imagery. This feature has been classified as Stewardship.	S
SG4-287	5- x 4-m concrete foundation.	576950.12	149364.07	Field verified on 11/9/2010. Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	Spatial analysis using WCH GIS data indicates this feature is apparent in the 1943 imagery. This feature has been classified as Stewardship.	S
SG4-288	4- x 3-m concrete foundation.	574129.68	149336.30	Field verified on 11/15/2010.	Spatial analysis using WCH GIS data indicates this feature is located at a pre-Hanford farmstead (1943 imagery). This feature has been classified as Stewardship.	S
SG4-289	9- x 5-m foundation with concrete visible in places.	574151.21	149318.81	Field verified On 11/15/2010.	Spatial analysis using WCH GIS data indicates this feature is located at a pre-Hanford farmstead (1943 imagery). This feature has been classified as Stewardship.	S
SG4-290	5-m-diameter depression with no debris or staining visible.	574114.89	149291.51	Field verified on 11/15/2010.	Spatial analysis using WCH GIS data indicates this feature is located at a pre-Hanford farmstead (1943 imagery). This feature has been classified as Stewardship.	S
SG4-291	1- x 1-m piece of debris consisting of a segment of galvanized duct.	574457.99	149297.52	Field verified on 11/15/2010.	This feature has been classified as Stewardship.	S

Table 7-4. Segment 4 Orphan Sites Evaluation Summary. (57 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4-292	Two 1-m-diameter ash sites in a 5-m-diameter area. No visible debris.	576201.81	149302.15	Field verified on 11/10/2010. Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead (1943 imagery).	This feature has been classified as Stewardship.	S
SG4-293	8-m-long decaying utility pole lying on the ground.	576309.42	149310.79	Field verified on 11/10/2010.	This feature has been classified as Stewardship.	S
SG4-294	8-m-long decaying utility pole lying on the ground.	576372.57	149310.73	Field verified on 11/10/2010.	This feature has been classified as Stewardship.	S
SG4-295	8-m-long decaying utility pole lying on the ground.	576440.29	149311.44	Field verified on 11/10/2010.	This feature has been classified as Stewardship.	S
SG4-296	8-m-long decaying utility pole lying on the ground.	576505.28	149311.21	Field verified on 11/10/2010.	This feature has been classified as Stewardship.	S
SG4-297	1- x 1-m piece of debris visible in aerial photography.	576702.79	149297.30	Field verified on 11/9/2010.	Field verification determined nothing visible at this location. This feature has been classified as No Further Evaluation.	NFE
SG4-298	This feature consists of a rusted out stove.	576757.78	149307.30	Field verified on 11/9/2010.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-299	7- x 7-m concrete foundation.	576971.28	149327.90	Field verified on 11/9/2010. Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	This feature is located in close proximity to two pre-Hanford features (SG4-286 and SG4-301). This feature is pre-Hanford and has been classified as Stewardship.	S
SG4-300	One utility pole standing; no wires visible.	576984.00	149309.58	Field verified on 11/9/2010. Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	This feature has been classified as Stewardship.	S
SG4-301	1- x 1- m concrete irrigation weir box and scattered farmstead debris consisting of a bike frame and other metal debris.	577012.39	149311.30	Field verified on 11/9/2010. Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-302	35-m-diameter area with three concrete foundations.	573967.21	149249.80	Field verified on 11/15/2010.	Spatial analysis using WCH GIS data indicates this feature is apparent in the 1943 imagery. This feature has been classified as Stewardship.	S
SG4-303	1-m area of debris consisting of corrugated siding.	575962.18	149251.60		This feature has been classified as Stewardship.	S

Table 7-4. Segment 4 Orphan Sites Evaluation Summary. (57 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4-304	5-m-diameter depression, no debris or staining visible.	576394.61	149237.88	Field verified on 11/10/2010.	Spatial analysis using WCH GIS data indicates this feature is apparent in the 1943 imagery. This feature has been classified as Stewardship.	S
SG4-305	206-L (55-gal) empty drum, no staining visible.	576004.50	149197.59		This feature has been classified as Miscellaneous Restoration.	MR
SG4-306	1-m galvanized cover or lid.	575883.26	149102.07		This feature has been classified as Stewardship.	S
SG4-307	12-m area of decayed wood lying on the ground.	573422.43	149142.50	Field verified on 11/15/2010.	This feature has been classified as Stewardship.	S
SG4-308	3-m area of concrete cleanout.	573349.65	149072.20	Field verified on 11/15/2010.	This feature has been classified as Stewardship.	S
SG4-309	Cut down 114-L (30-gal) drum with the top, bottom, and a section of the wall removed. No secondary staining visible.	573795.80	149062.38	Field verified on 11/15/2010.	This feature has been classified as Stewardship.	S
SG4-310	1-m wooden irrigation weir box and valve.	575576.92	149095.39		Spatial analysis using WCH GIS data indicates this feature is next to a pre-Hanford irrigation canal. This feature is pre-Hanford debris and has been classified as Stewardship.	S
SG4-311	3-m-diameter roll of chicken wire.	573496.16	149021.64	Field verified on 11/15/2010.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-312	1-m area of debris consisting of a piece of sheet metal.	573475.79	148987.16	Field verified on 11/15/2010.	This feature has been classified as Stewardship.	S
SG4-313	40-m area of scattered decayed wood debris.	573436.64	148984.19	Field verified on 11/15/2010.	This feature has been classified as Stewardship.	S
SG4-314	8-m area with six concrete footings.	573354.27	149028.99	Field verified on 11/15/2010.	Spatial analysis using WCH GIS data indicates this feature is former 230 KV switch station A-13. This feature has been classified as Stewardship.	S
SG4-315	8-m area with six concrete footings.	573328.27	149036.72	Field verified on 11/15/2010.	Spatial analysis using WCH GIS data indicates this feature is former 230 KV switch station A-13. This feature has been classified as Stewardship.	S

Table 7-4. Segment 4 Orphan Sites Evaluation Summary. (57 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4-316	5- x 3-m foundation.	573582.45	148928.06	Field verified on 11/15/2010.	Spatial analysis using WCH GIS data indicates this feature is located at a pre-Hanford farmstead (1943 imagery). This feature has been classified as Stewardship.	S
SG4-317	12-m-diameter area with four concrete transmission tower footings.	576650.94	148872.59	Field verified on 11/10/2010.	Spatial analysis using WCH GIS data indicates this feature is associated with a 230 KV feeder line per west-71484, sht 1, Rev. 7. This feature has been classified as Stewardship.	S
SG4-318	Galvanized metal wash tub.	575850.47	148888.17	Field verified on 11/18/2010. Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	This feature consists of pre-Hanford debris and is classified as a Stewardship item.	S
SG4-319	Empty 114-L (30-gal) galvanized metal tank.	575751.93	148901.77	Field verified on 11/18/2010. Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	This feature has been classified as Stewardship.	S
SG4-320	2-m area with two objects casting a shadow in aerial photography.	574566.41	148892.12		Field verification determined this to be two boulders. This feature has been classified as No Further Evaluation.	NFE
SG4-321	1-m area consisting of what appears to be a fabric tarp.	574347.83	148884.28	Field verified on 11/15/2010.	This feature has been classified as Stewardship.	S
SG4-322	10-m area of metal debris consisting of car body parts.	573632.84	148906.26	Field verified on 11/15/2010.	This feature consists of pre-Hanford debris and is classified as a Stewardship item.	S
SG4-323	9- x 5-m concrete foundation.	573612.90	148914.65	Field verified on 11/15/2010.	Spatial analysis using WCH GIS data indicates this feature is located at a pre-Hanford farmstead (1943 imagery). This feature has been classified as Stewardship.	S
SG4-324	9- x 7-m concrete foundation and footings.	573576.36	148888.29	Field verified on 11/15/2010.	Spatial analysis using WCH GIS data indicates this feature is located at a pre-Hanford farmstead (1943 imagery). This feature has been classified as Stewardship.	S
SG4-325	3-m area with a concrete irrigation weir box.	575912.43	148808.53	Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	This feature consists of pre-Hanford irrigation debris and is classified as Stewardship.	S

Table 7-4. Segment 4 Orphan Sites Evaluation Summary. (57 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4-326	30-m-diameter area of scattered debris including wood, metal, and concrete.	575718.95	148811.89	Field verified on 11/18/2010. Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	Spatial analysis using WCH GIS data indicates this feature is located at a pre-Hanford farmstead (1943 imagery). This feature has been classified as Stewardship.	S
SG4-327	1-m debris site visible in aerial photography.	573191.45	148808.28	Field verified on 11/16/2010.	Field verification determined nothing visible at this location. This feature has been classified as No Further Evaluation.	NFE
SG4-328	50-m-diameter area with three concrete foundations.	573093.18	148771.01	Field verified on 11/16/2010.	This feature consists of pre-Hanford foundations due to aggregate size that is not consistent with Hanford standards. This feature has been classified as Stewardship.	S
SG4-329	6-m-diameter depression. No debris or staining visible.	573073.42	148697.23	Field verified on 11/16/2010.	This feature has been classified as Stewardship.	S
SG4-330	2- x 1-m concrete irrigation weir box.	575493.29	148716.36	Field verified on 11/18/2010.	This feature consists of pre-Hanford debris and is classified as a Stewardship item.	S
SG4-331	50-m area of farmstead debris including wood, metal, concrete; also a filled in well and a below-grade wood-lined structure.	575731.99	148720.67	Field verified on 11/18/2010. The well (699-82-47) has been decommissioned per WCH GIS data.	This feature consists of pre-Hanford debris and is classified as a Stewardship item.	S
SG4-332	75-m area of farmstead debris including wood, metal, and fence wire.	575842.15	148715.58	Field verified on 11/18/2010. Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	This feature consists of pre-Hanford debris and is classified as a Stewardship item.	S
SG4-333	17- x 11-m pit. No debris or staining visible.	573392.97	148640.49	Field verified on 11/16/2010.	Spatial analysis using WCH GIS data indicates this feature is apparent in the 1943 imagery. This feature has been classified as Stewardship.	S
SG4-334	70-m area of farmstead debris including metal car parts, cans, and buckets.	575705.66	148645.83	Field verified on 11/18/2010. Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-335	Three 206-L (55-gal) empty drums with tops and bottoms removed, no staining visible.	575751.97	148594.28	Field verified on 11/18/2010. Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	This feature has been classified as Miscellaneous Restoration.	MR

Table 7-4. Segment 4 Orphan Sites Evaluation Summary. (57 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4-336	70-m-diameter area of farmstead debris.	575730.70	148582.72	No photograph was collected because this feature is represented by surrounding features. Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	Spatial analysis using WCH GIS data indicates this feature is located at a pre-Hanford farmstead (1943 imagery). This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-337	206-L (55-gal) empty drum with no staining visible.	576123.02	148585.77	Field verified on 11/17/2010. Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	This feature has been classified as Miscellaneous Restoration.	MR
SG4-338	12-m-diameter area with four concrete transmission tower footings.	576590.67	148590.58	Field verified on 11/17/2010.	Spatial analysis using WCH GIS data indicates this feature is associated with a 230 KV feeder line per west-71484, sht 1, Rev. 7. This feature has been classified as Stewardship.	S
SG4-339	30-m-diameter of scattered concrete, automobile parts, glass, wood, and metal debris.	575691.78	148511.26	Field verified on 11/18/2010. Spatial analysis using WCH GIS data indicates this feature is approximately 20 m from a known pre-Hanford farmstead.	This feature consists of pre-Hanford debris and is classified as a Stewardship.	S
SG4-340	7-m area with a 1- x 1-m concrete irrigation weir box and a 2-m-diameter metal tank.	575756.66	148537.44	Field verified on 11/18/2010. Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	This feature consists of pre-Hanford debris and is classified as a Stewardship.	S
SG4-341	10-m-diameter area of wood debris within a known farmstead area.	575740.60	148497.90	Field verified on 11/18/2010. Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	This feature consists of pre-Hanford debris and is classified as a Stewardship.	S
SG4-342	8- x 5-m concrete foundation.	575819.42	148521.64	Field verified on 11/18/2010. Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	This feature consists of pre-Hanford debris and is classified as a Stewardship.	S
SG4-343	1- x 1-m concrete irrigation weir box.	576009.97	148536.20	Field verified on 11/17/2010. Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	Spatial analysis using WCH GIS data indicates this feature is located at a pre-Hanford farmstead (1943 imagery). This feature consists of pre-Hanford debris and is classified as a Stewardship.	S

Table 7-4. Segment 4 Orphan Sites Evaluation Summary. (57 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4-344	50-m-diameter area with multiple concrete footings at the base of a transmission tower.	576467.56	148500.85	Field verified on 11/17/2010.	Spatial analysis using WCH GIS data indicates this feature is former 230 KV switch station A-18. This feature has been classified as Stewardship.	S
SG4-345	4-m area with two sections of decaying utility pole bases.	577079.33	148553.99	Field verified on 11/17/2010.	This feature has been classified as Stewardship.	S
SG4-346	150-m area with multiple farmstead debris sites, cans, bottles, irrigation weir box, automobile bodies, and a wide variety of other items. Poly walked.	575547.60	148514.51	Field verified on 11/18/2010.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-347	1-m galvanized wash tub.	575742.24	148448.83	Field verified on 11/18/2010. Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-348	2-m-diameter bare ground in aerial photography.	575783.99	148470.69	Field verified on 11/18/2010.	Field verification determined this to be a badger hole. This feature has been classified as No Further Evaluation.	NFE
SG4-349	2-m-diameter concrete lined below grade structure.	575821.55	148461.88	Field verified on 11/18/2010.	Spatial analysis using WCH GIS data indicates this feature is located at a pre-Hanford farmstead (1943 imagery). This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-350	Two posts protruding out of the ground. The entrance of a homestead walkway.	575818.97	148488.54	Field verified on 11/18/2010.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-351	50-m-diameter area of wood and metal debris.	575843.65	148452.78	Field verified on 11/18/2010. Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-352	62-m-diameter area of wood, metal debris, and concrete foundations. Poly walked.	575946.44	148453.38	Field verified on 11/17/2010.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-353	6-m area of wood debris consisting of wood pallets.	576166.82	148478.54	Field verified on 11/17/2010.	This feature has been classified as Stewardship.	S
SG4-354	50- x 2-m concrete side walk or slab. No secondary debris or staining.	576890.38	148476.50	Field verified on 11/17/2010. Spatial analysis using WCH GIS data indicates this feature is not apparent in 1943, 1948 imagery, but is visible in 1957 imagery.	This feature has been classified as Stewardship.	S

Table 7-4. Segment 4 Orphan Sites Evaluation Summary. (57 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4-355	6-m-long decayed utility pole lying on the ground.	576920.75	148496.03	Field verified on 11/17/2010.	This feature has been classified as Stewardship.	S
SG4-356	5-m-diameter area of bare ground, no secondary debris or staining visible.	575797.05	148403.24	Field verified on 11/18/2010. Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	This feature has been classified as Stewardship.	S
SG4-357	70-m-diameter area of farmstead debris consisting of wood, metal, and wire.	575939.97	148409.94	Field verified on 11/17/2010. Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-358	5-m-diameter area of orchard stumps pushed into a pile.	575994.72	148424.26	Field verified on 11/17/2010. Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-359	5-m area of orchard stumps pushed into a pile.	576107.82	148387.24	Field verified on 11/17/2010. Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-360	Decaying utility poles lying on the ground.	576418.35	148402.16	Field verified on 11/17/2010.	This feature has been classified as Stewardship.	S
SG4-361	Twelve concrete footings in a 30-m area.	576561.57	148394.61	Field verified on 11/17/2010.	Spatial analysis using WCH GIS data indicates this feature is former 230 KV switch station A-15. This feature has been classified as Stewardship.	S
SG4-362	206-L (55-gal) empty drum that is rusted out. No staining visible.	576584.80	148420.59	Field verified on 11/17/2010.	This feature has been classified as Miscellaneous Restoration.	MR
SG4-363	10-m area orchard tree stumps that were pushed into a pile.	575721.74	148318.81	Field verified on 11/18/2010. Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-364	15-m area of orchard tree stumps that were pushed into a pile.	575829.15	148360.62	Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-365	1-m piece of sheet metal.	577197.78	148337.87	Field verified on 11/17/2010.	This feature has been classified as Stewardship.	S
SG4-366	8-m-long decaying utility pole lying on the ground.	577245.08	148342.81	Field verified on 11/17/2010.	This feature has been classified as Stewardship.	S
SG4-367	20-m area of decaying wood debris.	576476.65	148261.77	Field verified on 11/17/2010.	This feature has been classified as Stewardship.	S

Table 7-4. Segment 4 Orphan Sites Evaluation Summary. (57 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4-368	6-m area of decaying wood utility pole debris lying on the ground.	576440.05	148300.58	Field verified on 11/17/2010.	This feature has been classified as Stewardship.	S
SG4-369	6-m area of decayed wood planks and plywood.	576937.78	148245.24	Field verified on 11/17/2010.	This feature has been classified as Stewardship.	S
SG4-370	1-m piece of cardboard debris.	572843.39	148247.24	Field verified on 11/16/2010.	This feature has been classified as Stewardship.	S
SG4-371	2-m area of bare ground in aerial photography.	576288.66	148159.41	Field verified on 11/17/2010.	Field verification determined this to be a badger hole. This feature has been classified as No Further Evaluation.	NFE
SG4-372	2- x 2-m concrete irrigation weir box.	576798.15	148083.41	Field verified on 11/17/2010.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-373	2- x 2-m concrete irrigation weir box.	575782.53	148066.69	No field verification. Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	Spatial analysis using WCH GIS data indicates this feature is located in a known farmstead next to a pre-Hanford canal. This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-374	80-m area of farmstead debris consisting of foundations, weir boxes, wood-lined below-grade structure, 3-m-diameter area of ash (no secondary debris), and automobile body parts.	576914.95	147966.70	Field verified on 11/17/2010.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-375	15-m area of debris consisting of glass, cans, and metal.	576150.74	147925.35	Field verified on 11/17/2010.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-376	1- x 1-m concrete irrigation weir box.	576678.30	147804.25	Field verified on 11/17/2010.	This feature has been classified as Stewardship.	S
SG4-377	110-m-diameter farmstead debris area consisting of concrete foundations, weir boxes, automobile body parts, and a variety of other items.	576747.21	147707.37	Field verified on 11/17/2010.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-378	1- x 1-m concrete irrigation weir box.	576141.63	147350.54	Field verified on 11/17/2010.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-379	1- x 1-m concrete irrigation weir box.	576201.08	147308.73	Field verified on 11/17/2010.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S

Table 7-4. Segment 4 Orphan Sites Evaluation Summary. (57 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4-380	1- x 1-m concrete irrigation weir box.	576411.11	147270.45	Field verified on 11/17/2010.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-381	5-m-diameter depression. No staining or debris visible.	575566.05	147052.76	Field verified on 11/16/2010.	This feature has been classified as Stewardship.	S
SG4-382	5-m-diameter depression. No staining or debris visible.	573416.08	146857.67	Field verified on 11/16/2010.	This feature has been classified as Stewardship.	S
SG4-383	2-m area of farmstead debris consisting of fencing wire and posts.	576646.45	146803.59	Field verified on 12/13/2010. Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-384	Broken up concrete irrigation weir box.	576869.17	146776.62	Field verified on 12/13/2010. Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-385	3-m-diameter concrete cleanout area.	576516.07	146643.51	Field verified on 12/13/2010.	This feature has been classified as Stewardship.	S
SG4-386	5-m area of bare ground visible in aerial photography.	576455.42	146562.68	Field verified on 12/13/2010.	Field verification determined this to be a concrete cleanout and it has been classified as Stewardship.	S
SG4-387	2.5-m area of bare ground in aerial photography.	576819.11	146514.78	Field verified on 12/13/2010.	Field verification determined this to be a badger hole. This feature has been classified as No Further Evaluation.	NFE
SG4-388	3-m area of farmstead debris consisting of a wooden irrigation weir box, pipes lying on the ground, fencing wire, and a wash tub.	576812.11	146467.15	Field verified on 12/13/2010. Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-389	Object casting a shadow in aerial photography.	575244.76	146433.84	Field verified on 11/16/2010.	Field verification determined nothing visible at this location. This feature has been classified as No Further Evaluation.	NFE
SG4-390	10-m area of concentrated fence wire and post debris.	576755.86	146458.70	Field verified on 12/13/2010. Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-391	7-m area of decayed wood debris.	578685.81	146293.74	Field verified on 12/14/2010.	This feature has been classified as Stewardship.	S
SG4-392	6-m area of decayed wood and metal farmstead debris.	578651.53	146263.12	Field verified on 12/14/2010.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S

Table 7-4. Segment 4 Orphan Sites Evaluation Summary. (57 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4-393	2- m x 2-m concrete-lined below-grade structure approximately 1.5 m deep containing plant litter. Scattered pre-Hanford farmstead debris was observed around feature.	574640.71	146096.07		This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-394	150-m area with five trenches. There was a small amount of farmstead debris within two trenches, no staining visible.	575927.75	146082.06	Field verified on 12/13/2010. Spatial analysis using WCH GIS data indicates this feature is not apparent in the 1943 imagery, but is visible in 1948 imagery.	This feature has been classified as Stewardship.	S
SG4-395	55-m area of farmstead debris, foundations, wood, metal.	576889.07	146004.10	Field verified on 12/14/2010. Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-396	40-m area of farmstead debris foundations a 4-m depression and debris.	577242.96	146035.61	Field verified on 12/14/2010. Spatial analysis using WCH GIS data indicates this feature is approximately 23 m from a known pre-Hanford farmstead.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-397	Farmstead debris consisting of a roll of hog wire.	576962.03	145923.78	Field verified on 12/14/2010.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-398	10-m area of farmstead irrigation debris and cobbles.	577010.21	145785.20	Field verified on 12/14/2010. Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-399	10-m area of debris in aerial photography.	577053.85	145791.07	Field verified on 12/14/2010.	Field verification determined this to be cobbles. This feature has been classified as No Further Evaluation.	NFE
SG4-400	206-L (55-gal) drum visible in aerial photography.	577273.22	145787.45	Field verified on 12/14/2010.	Field verification determined nothing visible at this location. This feature has been classified as No Further Evaluation.	NFE
SG4-401	206-L (55-gal) empty drum, no staining visible.	578095.47	145718.58	Field verified on 12/14/2010.	This feature has been classified as Miscellaneous Restoration.	MR
SG4-402	30-m area of scattered farmstead debris consisting of fence posts, wash tubs, and a bucket.	578109.39	145716.05	Field verified on 12/14/2010.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S

Table 7-4. Segment 4 Orphan Sites Evaluation Summary. (57 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4-403	4-m area consisting of pre-Hanford debris, parts of an old automobile.	578609.36	145222.02	Field verified on 12/27/2010.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-404	3-m-diameter depression. No staining or debris visible.	573415.81	145112.82	Field verified on 12/29/2010.	This feature has been classified as Stewardship.	S
SG4-405	5-m area of metal 4-L (1-gal) cans (empty) and wood debris. No visible stains.	578610.87	145160.81	Field verified on 12/27/2010.	This feature has been classified as Stewardship.	S
SG4-406	1-m square concrete irrigation weir box.	578313.17	145058.94	Field verified on 12/27/2010.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-407	240-m disturbed area with surface debris consisting of multiple burn sites with burn remnants, Transite, insulators, wood, concrete.	577743.13	145009.07		This feature has been classified as an Orphan Site.	OS
SG4-408	3-m-long concrete diversion gate on the historic irrigation canal.	577927.38	144844.77	Field verified on 12/27/2010.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-409	3-m area wood debris that appears to have been a crossing of the historic irrigation canal.	578195.29	144875.17	Field verified on 12/27/2010.	This feature has been classified as Stewardship.	S
SG4-410	15-m consisting of a mound of dirt with scattered concrete chunks within a known farmstead.	578265.51	144511.20	Field verified on 12/27/2010. Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	This feature has been classified as Stewardship.	S
SG4-411	Two concrete cleanouts both 2 m in diameter in a 20-m area.	572276.27	144405.08	Field verified on 12/29/2010.	This feature has been classified as Stewardship.	S
SG4-412	2-m area of wire and wood that appears to have been a gate.	579237.51	144346.85	Field verified on 12/27/2010.	This feature has been classified as Stewardship.	S
SG4-413	3-m area of bare ground that was visible in aerial photography.	572357.44	144252.18	Field verified on 12/29/2010.	Field verification determined this to be a concrete cleanout. This feature has been classified as Stewardship.	S
SG4-414	3-m area of bare ground that was visible in aerial photography. Field verified to be 2- m x 2-m wood-lined below-grade structure obscured by plant litter.	572494.13	144288.30	Field verified on 12/29/2010.	Field verification determined this to be 2- m x 2-m wood-lined below-grade structure obscured by plant litter. This feature has been classified as Stewardship.	S

Table 7-4. Segment 4 Orphan Sites Evaluation Summary. (57 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4-415	206-L (55-gal) empty drum and lid, no staining visible.	574448.05	144095.45	Field verified on 01/05/2011.	This feature has been classified as Miscellaneous Restoration.	MR
SG4-416	3-m area of decayed wood debris.	580077.69	144019.71	Field verified on 12/27/2010.	This feature has been classified as Stewardship.	S
SG4-417	Southwest end of a fence 105 m long made of steel posts and wooden 2 x 6 boards.	574101.96	143789.58	Field verified on 01/05/201. Fence posts appear to be of military origin. This feature is associated with SG4-506. Spatial analysis using WCH GIS data indicates this feature is not apparent in the 1943 imagery, but is visible in 1948 imagery.	This feature has been classified as Stewardship.	S
SG4-417	Northeast end of a fence 105 m long made of steel posts and wooden 2 x 6 boards.	574175.16	143837.62	Field verified on 01/05/201. Fence posts appear to be of military origin. This feature is associated with SG4-506. Spatial analysis using WCH GIS data indicates this feature is not apparent in the 1943 imagery, but is visible in 1948 imagery.	This feature has been classified as Stewardship.	S
SG4-418	8-m area of decayed wood planks and utility pole debris within the historic irrigation canal.	578812.66	143646.78	Field verified on 12/27/2010.	This feature has been classified as Stewardship.	S
SG4-419	3-m area of utility debris consisting of decaying pole sections, insulators, and wire.	574369.71	143601.96	Field verified on 01/05/2011. Insulators and wire will be picked up as Miscellaneous Restoration.	The insulators and wire portion of this feature have been classified as Miscellaneous Restoration.	MR
SG4-420	8-m area of decaying utility poles, insulators, and guy wire cable debris.	577244.69	143599.81	Field verified on 12/27/2010. Insulators and guy wires will be picked up as Miscellaneous Restoration.	The insulators and guy wire portion of this feature have been classified as Miscellaneous Restoration.	MR
SG4-421	20-m area of decaying wood debris consisting of utility cross arms and utility pole butts.	577844.85	143617.84	Field verified on 12/27/2010.	This feature has been classified as Stewardship.	S
SG4-422	6-m area of multiple wooden decaying utility pole sections.	573848.48	143563.34	Field verified on 01/05/2011.	This feature has been classified as Stewardship.	S
SG4-423	1-m round farmstead wash tub.	578834.27	143534.28	Field verified on 12/27/2010.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-424	10-m area with two decayed utility poles lying on the ground.	574446.52	143509.82	Field verified on 01/05/2011.	This feature has been classified as Stewardship.	S

Table 7-4. Segment 4 Orphan Sites Evaluation Summary. (57 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4-425	6-m-diameter depression with an 8-cm pipe going into a wood-lined hand-dug well. Bore hole # A5299 posted on pipe.	578466.00	143436.16	Field verified on 12/27/2010.	Spatial analysis using WCH GIS data indicates this feature is associated with well 699-65-38. This feature has been classified as Stewardship.	S
SG4-426	Aluminum scaffolding and a standing out of service utility pole.	573746.07	143318.10	Field verified on 01/05/2011.	This feature has been classified as Miscellaneous Restoration.	MR
SG4-427	15-m-diameter gravel pile with no debris or staining visible.	572774.22	143019.62	Field verified on 01/05/2011.	This feature has been classified as Stewardship.	S
SG4-428	3-m-diameter stock tank lid (see SG4-434).	580706.94	143000.90	Field verified on 12/29/2010.	This feature has been classified as Stewardship.	S
SG4-429	Northwesterly end of 1,070-m-long linear feature.	580679.46	143043.62	Field verified on 12/29/2010.	Spatial analysis using WCH GIS data indicates this feature is not apparent in the 1943 imagery, but is visible in 1948 imagery. In the 1948 imagery the feature appears to be a road northwest of the north point. This feature has been classified as Stewardship.	S
SG4-429	Southeasterly end of 1,070-m-long linear feature.	581232.56	142129.38	Field verified on 12/29/2010.	Spatial analysis using WCH GIS data indicates this feature is not apparent in the 1943 imagery, but is visible in 1948 imagery. In the 1948 imagery the feature appears to be a road northwest of the north point. This feature has been classified as Stewardship.	S
SG4-430	14-m-long decaying utility pole lying on the ground.	572730.93	142901.88	Field verified on 01/04/2011.	This feature has been classified as Stewardship.	S
SG4-431	1- x 1-m concrete-filled wooden box.	573629.22	142791.89	Field verified on 12/09/2010.	This feature has been classified as Stewardship.	S
SG4-432	10-m area of suspected farmstead debris.	580316.96	142754.38	Field verified on 12/29/2010. Spatial analysis using WCH GIS data indicates this feature is 28 m from a known pre-Hanford farmstead.	Spatial analysis using WCH GIS data indicates this feature is located at a pre-Hanford farmstead (1943 imagery). This feature has been classified as Stewardship.	S
SG4-433	2-m round object visible in aerial photography.	572547.15	142623.55	Field verified on 12/09/2010. Spatial analysis using WCH GIS data indicates this feature is associated with 10-cm and 25-cm raw water supply lines that supplied the NSTF.	Field verification determined this to be a vent valve for the export water line. This feature has been classified as Stewardship.	S

Table 7-4. Segment 4 Orphan Sites Evaluation Summary. (57 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4-434	3-m round object visible in aerial photography.	580303.55	142632.73	Field verified on 12/29/2010. Spatial analysis using WCH GIS data indicates this feature is 15 m from a known pre-Hanford farmstead.	Field verification determined this to be a galvanized metal stock tank. This feature has been classified as Miscellaneous Restoration.	MR
SG4-435	5-m-diameter debris site visible in aerial photography.	580191.98	142674.82	Field verified on 12/29/2010. Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	Field verification determined this to be tree stumps. This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-436	28-m area with two wood debris sites visible in aerial photography.	580230.82	142672.62	Field verified on 12/29/2010. Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	Field verification determined this to be decayed wood posts and stumps. This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-437	3-m area of wood debris visible in aerial photography.	580141.07	142655.93	Field verified on 12/29/2010. Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-438	4-m segment on galvanized steel piping lying on the ground.	576677.99	142663.72	Field verified on 12/16/2010.	This feature has been classified as Stewardship.	S
SG4-439	3-m debris site visible in aerial photography.	572517.80	142486.59	Field verified on 12/09/2010.	Field verification determined this to be a stack of basalt rocks. This feature has been classified as No Further Evaluation.	NFE
SG4-440	Two 3-m-diameter rock dump sites with some wire debris in a 12-m area.	574909.04	142516.72	Field verified on 12/09/2010.	This feature has been classified as Stewardship.	S
SG4-441	5-m-diameter rock dump site, no other debris visible.	574947.11	142527.96	Field verified on 12/09/2010.	This feature has been classified as Stewardship.	S
SG4-442	75- x 65-m area WIDS 600-147 (CHPRC, Not Accepted), with large amounts debris. Wood shack with roofing, stove, and a variety of other debris.	576843.63	142490.50	Field verified on 12/16/2010.	This feature is WIDS 600-147 (CHPRC, Not Accepted). This feature is classified as Miscellaneous Restoration.	MR
SG4-443	1 m of what appears to be a chunk of concrete. 1- x 1-m concrete block.	579966.29	142489.91	Field verified on 12/29/2010. Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	Spatial analysis using WCH GIS data indicates this feature is located at a pre-Hanford farmstead (1943 imagery). This feature has been classified as Stewardship.	S

Table 7-4. Segment 4 Orphan Sites Evaluation Summary. (57 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4-444	1-m area of possible ash visible in aerial photography.	579946.22	142491.52	Field verified on 12/29/2010.	Field verification determined this to be a tree stump. Spatial analysis using WCH GIS data indicates this feature is located at a pre-Hanford farmstead (1943 imagery). This feature has been classified as No Further Evaluation.	NFE
SG4-445	One 4- x 5-m farm house foundation and a 3- x 3-m wood-lined below-grade structure, 20 m apart.	580508.23	142467.92	Groundwater group to be notified about possible deep well.	Spatial analysis using WCH GIS data indicates this feature is located at a pre-Hanford farmstead (1943 imagery). This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-446	10 m of wood debris lying around a ground monitoring well.	572606.47	142435.78	Field verified on 12/16/2010.	This feature has been classified as Stewardship.	S
SG4-447	600-146 WIDS (WCH, Interim Closed Out) a steel structure, two berms and scattered debris visible in aerial photography.	576210.33	142319.96	Field verified on 12/16/2010.	Field verification determined this feature to be gone. This feature has been Interim Closed Out by WCH and is classified as Stewardship.	S
SG4-448	1-m-long piece of debris consisting of a sign lying on the ground.	576655.05	142386.33	Field verified on 12/16/2010.	This feature has been classified as Stewardship.	S
SG4-449	15-m area of concrete chunks and braided cable.	572314.58	142290.48	Field verified on 12/09/2010.	This feature has been classified as Stewardship.	S
SG4-450	3-m-long wood plank.	572654.72	142244.37	Field verified on 12/09/2010.	This feature has been classified as Stewardship.	S
SG4-451	40-m area of scattered debris consisting of decayed wood and a sheet of rubber.	572744.12	142235.53	Field verified on 12/09/2010.	This feature has been classified as Stewardship.	S
SG4-452	Debris site consisting of a tire and a crushed drum.	572908.11	142247.21	Field verified on 12/09/2010.	This feature has been classified as Stewardship.	S
SG4-453	10-m debris area consisting of six decayed railroad ties.	572929.07	142260.46	Field verified on 12/09/2010.	This feature has been classified as Stewardship.	S
SG4-454	3-m grout cleanout and some wire debris.	573922.99	142260.69	Field verified on 12/16/2010.	This feature has been classified as Stewardship.	S
SG4-455	5-m area of bare ground visible in aerial photography.	572331.63	142197.56	Field verified on 12/09/2010.	Field verification determined this to be an area of sand. This feature has been classified as No Further Evaluation.	NFE
SG4-456	2-m-long piece of plywood lying on the ground.	572381.15	142138.29	Field verified on 12/09/2010.	This feature has been classified as Stewardship.	S

Table 7-4. Segment 4 Orphan Sites Evaluation Summary. (57 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4-457	6-m debris site, plumbing debris: broken fixtures, metal and Transite pipe, metal turnings, concrete, and dried paint in cans.	580081.45	142149.78	Field verified on 12/29/2010. Spatial analysis using WCH GIS data indicates this feature is located at a pre-Hanford farmstead (1943 imagery) and is approximately 300 m south of the main farm structures and 100 m from a road.	This feature has been classified as Stewardship.	S
SG4-458	10-m area of scattered debris consisting of two tires and a sign lying on the ground.	572314.61	142091.95	Field verified on 01/05/2011.	This feature has been classified as Stewardship.	S
SG4-459	2-m area of debris consisting of a sign lying on the ground.	573797.94	142027.59	Field verified on 12/16/2010.	This feature has been classified as Stewardship.	S
SG4-460	Two 5-m areas of wood debris in a 25-m area.	580832.24	142051.19	This feature was not field verified due to remediation operations at WIDS 600-149.	This feature has been classified as Stewardship.	S
SG4-461	Two concrete blocks in a 5-m area 1 x 1 x 2 m.	572331.01	141981.78	Field verified on 01/05/2011.	This feature has been classified as Stewardship.	S
SG4-462	1-m concrete survey marker on top of a pile of rocks.	573556.37	141896.62	Field verified on 12/16/2010.	This feature has been classified as Stewardship.	S
SG4-463	1-m concrete survey marker on top of a pile of rocks.	573828.68	141900.69	Field verified on 12/16/2010.	This feature has been classified as Stewardship.	S
SG4-464	15-m area of scattered farmstead debris including broken concrete foundation, fragments of glass and metal.	579011.26	141856.72	Field verified on 01/04/2011.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-465	Two empty 206-L (55-gal) drums in a 15-m-diameter pit along with two 8-cm PVC pipes projecting vertically from the center of the pit. No visible staining.	579013.72	141777.98	Field verified on 01/04/2011. Spatial analysis using WCH GIS data indicates the pit is visible in 1943 imagery.	This feature has been classified as Miscellaneous Restoration.	MR
SG4-466	9- x 4-m trench and adjacent dirt mound. No secondary evidence of debris or staining.	577908.26	141649.04	Field verified on 01/04/2011.	This feature has been classified as Stewardship.	S
SG4-467	550- x 450-m area with multiple trenches, some containing wooden shoring used for a geological study.	578081.30	141549.66	Spatial analysis using WCH GIS data indicates that some of the parts of this feature were visible in 1969 imagery, which RHO-BWI-LD-5 indicates.	This feature is associated with a geologic study as indicated in RHO-BWI-LD-5 (Geology of Gable Mountain - Gable Butte Area). This feature has been classified as Stewardship.	S
SG4-468	10-m area of debris; two decayed wooden pallets.	581419.84	141645.30	Field verified on 12/29/2010.	This feature has been classified as Stewardship.	S

Table 7-4. Segment 4 Orphan Sites Evaluation Summary. (57 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4-469	10-m debris area including a 1-m concrete block, a shallow 1-m-diameter caisson, wood, and metal to a known well.	579913.53	141615.24	Field verified on 01/04/2011. May need to inform groundwater group about this feature.	Spatial analysis using WCH GIS data indicates this feature is located at a pre-Hanford homestead (1943 imagery). This feature has been classified as Stewardship.	S
SG4-470	5-m depression filled with tumbleweeds and associated dirt mound, no staining or debris visible.	576650.15	141530.55	Field verified on 12/16/2010.	This feature has been classified as Stewardship.	S
SG4-471	2-m-long segment of PVC pipe.	577598.05	141216.55	Field verified on 01/04/2011.	This feature has been classified as Stewardship.	S
SG4-472	6-m-diameter depression filled with tumbleweeds and associated mound. No staining or debris visible.	576783.14	141044.67	Field verified on 12/16/2010.	This feature has been classified as Stewardship.	S
SG4-473	3.5-m area of bare ground visible in aerial photography.	581867.12	141007.98	Field verified on 01/04/2011.	Field verification determined this to be bare ground with no secondary evidence of stains or debris visible. This feature has been classified as No Further Evaluation.	NFE
SG4-474	3-m area of decayed wood debris.	577414.59	140901.82	Field verified on 12/16/2010.	This feature has been classified as Stewardship.	S
SG4-475	9-m-long aluminum pipe lying next to a well.	582025.30	140704.51	Field verified on 01/04/2011.	This feature has been classified as Stewardship.	S
SG4-476	2-m piece of sheet metal.	582132.35	140723.56	Field verified on 01/04/2011.	This feature has been classified as Stewardship.	S
SG4-477	450-m linear of Transite piping lying on the ground. Starts at gun range shack and ends at historic irrigation canal.	581375.47	140664.36	Field verified on 12/15/2010.	This feature has been classified as Miscellaneous Restoration.	MR
SG4-478	17-m area consisting of concrete footings.	581505.04	140639.80	Field verified on 12/15/2010.	Spatial analysis using WCH GIS data indicates this feature is former 230 KV switch station A-22. This feature has been classified as Stewardship.	S
SG4-479	12-m area of bare ground within an orchard, no staining or debris visible.	581884.63	140660.35	Field verified on 12/15/2010.	This feature has been classified as Stewardship.	S
SG4-480	67-m area with trenches dug into the ground. Wood-framed structures are within these trenches.	577429.57	140634.06		This feature has been classified as Stewardship.	S

Table 7-4. Segment 4 Orphan Sites Evaluation Summary. (57 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4-481	20-m area with eight concrete footings.	581520.01	140479.10	Field verified on 12/15/2010.	Spatial analysis using WCH GIS data indicates this feature is former 230 KV switch station A-22 and a diverter gap. This feature has been classified as Stewardship.	S
SG4-482	1-m sign lying on the ground.	577189.87	140210.50	Field verified on 12/15/2010.	This feature has been classified as Stewardship.	S
SG4-483	10-m-long decaying utility pole lying on the ground.	578685.98	140088.13	Field verified on 12/15/2010.	This feature has been classified as Stewardship.	S
SG4-484	10-m wood utility pole lying on the ground.	579159.62	140082.44	This feature was not field verified due to remediation operations at WIDS 600-108.	This feature has been classified as Stewardship.	S
SG4-485	40-m area of farmstead debris and debris associated with two wells, grout, and metal.	578676.34	140002.97	Field verified on 12/15/2010.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-486	8-m area of bare ground visible in aerial photography.	579240.50	139994.70	This feature was not field verified due to remediation operations at WIDS 600-108.	This feature has been classified as Stewardship.	S
SG4-487	12-m area of bare ground that shows up red in IR aerial photography.	582285.86	139963.61	Field verified on 01/04/2011.	Field verification determined this to be bare ground with no secondary evidence of stains or debris visible. This feature has been classified as No Further Evaluation.	NFE
SG4-488	16-m-long utility pole lying on the ground.	582495.18	139297.98		This feature has been classified as Stewardship.	S
SG4-489	9-m-diameter depression and associated mound. No secondary evidence of debris or stains visible.	578159.93	139257.25	Field verified on 01/04/2011.	This feature has been classified as Stewardship.	S
SG4-490	45- x 45-m disturbed area, no staining or debris visible.	581571.23	139224.00	Field verified on 12/15/2010.	This feature has been classified as Stewardship.	S
SG4-491	1-m piece of sheet metal.	581964.30	139182.26	Field verified on 01/04/2011.	This feature has been classified as Stewardship.	S
SG4-492	16-m long utility pole lying on the ground.	582610.28	139162.45		This feature has been classified as Stewardship.	S
SG4-493	5-m area of decayed wood debris.	581705.49	139070.84	Field verified on 12/15/2010. Spatial analysis using WCH GIS data indicates this feature is located in pit #19 and terrain disturbance was apparent in 1948, but not 1943.	This feature has been classified as Stewardship.	S

Table 7-4. Segment 4 Orphan Sites Evaluation Summary. (57 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4-494	11-m area of scattered decayed wood debris and cobbles.	581721.90	139029.57	Spatial analysis using WCH GIS data indicates this feature is located in pit #19 and terrain disturbance was apparent in 1948, but not in 1943.	This feature has been classified as Stewardship.	S
SG4-495	1-m metal dump hopper.	581846.75	139067.89	Spatial analysis using WCH GIS data indicates terrain disturbance was apparent in 1948, but not in 1943.	This feature has been classified as Stewardship.	S
SG4-496	60-m area of scattered wood and metal debris. SG4-577 describes the same feature.	581818.79	139043.82	Spatial analysis using WCH GIS data indicates terrain disturbance was apparent in 1948, but not in 1943. Photographs D8229_Storage_Bunker_11151944.jpg and 3356_Photo_04071955.JPG show intact wood structure that was this feature.	This feature has been classified as Stewardship.	S
SG4-497	1- x 1.7-m oval-shaped debris visible in aerial photography.	578296.94	138850.99		Field verification determined nothing visible at this location. This feature has been classified as No Further Evaluation.	NFE
SG4-498	3-m-diameter truck load size pile of gravel.	580596.39	138824.58		This feature has been classified as Stewardship.	S
SG4-499	0.6-m-diameter debris visible in aerial photography.	581435.24	138836.13		Field verification determined nothing visible at this location. This feature has been classified as No Further Evaluation.	NFE
SG4-500	8- x 5-m concrete foundation.	577283.28	150484.76	Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	Spatial analysis using WCH GIS data indicates this feature is located at a pre-Hanford farmstead (1943 imagery). This feature has been classified as Stewardship.	S
SG4-501	1-m-diameter farmstead wash tub.	577336.87	150496.87		This feature has been classified as Stewardship.	S
SG4-502	42- x 42-m area with two trenches.	575693.72	148106.21		Spatial analysis using WCH GIS data indicates this feature is located next a pre-Hanford irrigation canal, and it is apparent in 1943 imagery. This feature has been classified as Stewardship.	S
SG4-503	33- x 10-m trench and associated soil mound, no staining or debris visible.	575397.24	145434.88		This feature has been classified as Stewardship.	S

Table 7-4. Segment 4 Orphan Sites Evaluation Summary. (57 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4-504	6- x 2-m weir box associated with the irrigation canal.	577419.23	145301.62		This feature consists of pre-Hanford debris and is classified as a stewardship item.	S
SG4-505	75- x 22-m heavily disturbed area, no debris or staining visible.	578475.00	145300.31	Spatial analysis using WCH GIS data indicates terrain disturbance was apparent in 1948, but not in 1943.	This feature has been classified as Stewardship.	S
SG4-506	70- x 30-m borrow pit with no staining or debris visible.	574140.67	143824.05	Spatial analysis using WCH GIS data indicates this feature is not apparent in the 1943 imagery, but is visible in 1948 imagery.	This feature has been classified as Stewardship.	S
SG4-507	70- x 55-m area with multiple bare areas where weeds appear to have been sprayed for weed control as indicated by vehicle tracks. No secondary evidence of stains or debris visible.	580666.29	142942.41	Field trip conducted 3/24/2011 with MSA weed control group indicated feature likely made during herbicide application.	This feature has been classified as Stewardship.	S
SG4-508	30- x 18-m area with multiple bare areas where weeds appear to have been sprayed for weed control as indicated by vehicle tracks. No secondary evidence of stains or debris visible.	580727.50	142840.54	Field trip conducted 3/24/2011 with MSA weed control group indicated feature likely made during herbicide application.	This feature has been classified as Stewardship.	S
SG4-509	10-m-diameter area consisting of three bare ground sites. No secondary evidence of stains or debris visible.	580438.56	142891.72	Field trip conducted 3/24/2011 with MSA weed control group indicated feature likely made during herbicide application.	This feature has been classified as Stewardship.	S
SG4-510	3.5-m-diameter depression. No staining or debris visible.	580301.41	143045.08	Spatial analysis using WCH GIS data indicates terrain disturbance was apparent in 1943 imagery.	This feature has been classified as Stewardship.	S
SG4-511	18- x 8-m depression, no staining or debris visible.	574066.06	142653.72		This feature has been classified as Stewardship.	S
SG4-512	200- x 115-m disturbed area, no debris or staining visible.	573606.80	142717.30		Spatial analysis using WCH GIS data indicates this feature was a borrow pit for the Near-Surface Test Facility. This feature has been classified as Stewardship.	S
SG4-513	11-m-diameter depression, no staining or debris visible.	573541.76	142527.73		This feature has been classified as Stewardship.	S

Table 7-4. Segment 4 Orphan Sites Evaluation Summary. (57 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4-514	6- x 2-m piece of debris visible in aerial photography.	575578.20	142412.64		Field verification determined nothing visible at this location. This feature has been classified as No Further Evaluation.	NFE
SG4-515	35-m area with two bare ground sites where weeds appear to have been sprayed for weed control, as indicated by vehicle tracks. No secondary evidence of stains or debris visible.	581106.75	142270.48	Following up with MSA weed control group.	This feature has been classified as Stewardship.	S
SG4-516	200- x 60-m area of silt associated with the upper north end of West Lake. No secondary evidence of stains or debris visible.	573160.11	141691.54	Spatial analysis using WCH GIS data indicates terrain disturbance was apparent in 1943 imagery.	This feature has been classified as Stewardship.	S
SG4-517	7-m area of farmstead debris consisting of irrigation pipe, wire, metal debris, and fence wire.	577492.56	150741.91	Identified during field verification. Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-518	6-m-diameter pile of dirt with metal farmstead debris mixed in including fence wire, banding, and a bucket.	576828.72	150656.14	Identified during field verification.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-519	206- L (55-gal) empty drum, no staining visible.	576608.44	150509.13	Identified during field verification. Spatial analysis using WCH GIS data indicates this feature is located approximately 120 m east of a known pre-Hanford farmstead.	This feature has been classified as Miscellaneous Restoration.	MR
SG4-520	Three rusted out 206-L (55-gal) drums (farmstead debris) in a 30-m-diameter area. Drums located within the area of SG4-213; they are empty with no stained soil visible.	576482.69	150639.56	Identified during field verification.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-521	6-m area metal farmstead debris including car parts, cans, buckets, and fence wire.	576818.55	150603.48	Identified during field verification.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-522	Two empty rusted out 114-L (30-gal) drums visible within feature 217 debris site. No visible stains.	576874.77	150563.45	Identified during field verification.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S

Table 7-4. Segment 4 Orphan Sites Evaluation Summary. (57 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4-523	Two concrete cleanouts in a 3-m area.	576909.68	150904.24	Identified during field verification.	This feature has been classified as Stewardship.	S
SG4-524	Cut off top segment of decaying utility pole and three insulators.	577607.09	150499.58	Identified during field verification.	This feature has been classified as Stewardship.	S
SG4-525	15-m area metal pipe and concrete debris.	577546.33	150532.68	Identified during field verification. Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	This feature has been classified as Stewardship.	S
SG4-526	206-L (55-gal) cut-down drum within a known farmstead area. No visible stains.	577235.32	150137.20	Identified during field verification. Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-527	Four dry cell batteries within a known farmstead debris site (SG4-245). No visible stains.	577208.71	150162.85	Identified during field verification.	This feature consists of pre-Hanford debris and is classified as an Orphan Site.	OS
SG4-528	1- x 1-m wood-lined below-grade structure.	577233.35	150092.69	Identified during field verification. Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-529	15-m area of metal and glass farmstead debris.	576839.38	150296.80	Identified during field verification.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-530	15-m area of ash. No secondary evidence of debris visible.	576296.79	149751.44	Identified during field verification.	This feature has been classified as Stewardship.	S
SG4-531	1- x 1-m wood-lined below-grade structure.	575878.63	150187.67	Identified during field verification. Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-532	6-m area with two stained areas. The first is 3 m in diameter the second is 1 m in diameter.	575916.56	150178.99	Identified during field verification. Spatial analysis using WCH GIS data indicates this feature is located next to a railroad track and within a known pre-Hanford farmstead.	This feature is classified as an Orphan Site.	OS
SG4-533	20-m area of farmstead debris, consisting of a marker wheel, sheet metal, and a piece of farm equipment.	576197.11	150030.76	Identified during field verification.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S

Table 7-4. Segment 4 Orphan Sites Evaluation Summary. (57 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4-534	3- x 10-m area consisting of chunks of asphalt.	575941.86	149999.97	Identified during field verification. Spatial analysis using WCH GIS data indicates this feature is next to a known pre-Hanford farmstead.	This feature has been classified as Stewardship.	S
SG4-535	10-m area with two patches of bare ground with a black material covering the ground, glass jar (probable food container) with unknown material, and dried yellow material.	576272.73	149545.31	Identified during field verification. Spatial analysis using WCH GIS data indicates this feature is located approximately 30 m north northeast of SG4-274 (concrete slabs).	This feature is classified as an Orphan Site.	OS
SG4-536	20-m area of pre-Hanford debris consisting of car parts, glass, buckets, and cans.	576721.06	148915.60	Identified during field verification.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-537	1-m debris stain from dry cell batteries. This feature is within the debris of feature SG4-536.	576718.36	148913.05	Identified during field verification.	This feature has been classified as an Orphan Site.	OS
SG4-538	Two truck tires 5 m apart.	576650.85	148921.84	Identified during field verification.	This feature has been classified as Stewardship.	S
SG4-539	30-m area of multiple battery debris sites and stained soil within a larger farmstead debris area. Poly walked.	576955.64	147365.45	Identified during field verification.	This feature has been classified as an Orphan Site.	OS
SG4-540	2- x 2-m below-grade concrete-lined structure filled with dead vegetation, depth unknown.	576249.71	147309.95	Identified during field verification.	Spatial analysis using WCH GIS data indicates this feature is located at a pre-Hanford homestead (1943 imagery). This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-541	10-m area with two locations where multiple decayed dry cell batteries have stained the ground. Poly walked.	576263.76	147106.86	Identified during field verification.	This feature has been classified as an Orphan Site.	OS
SG4-542	1-m area of dry cell battery debris and stained soil.	576156.50	148489.60	Identified during field verification.	This feature has been classified as an Orphan Site.	OS
SG4-543	Two 206-L (55-gal) empty drums, no staining visible.	575943.17	148410.53	Identified during field verification. Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	This feature has been classified as Miscellaneous Restoration.	MR

Table 7-4. Segment 4 Orphan Sites Evaluation Summary. (57 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4-544	Four 206-L (55-gal) empty drums in a 45 m known farmstead area, no staining visible. Poly walked.	575845.80	148471.40	Identified during field verification. Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	This feature has been classified as Miscellaneous Restoration.	MR
SG4-545	1- x 1-m below-grade wood-lined structure with concrete cover.	575808.48	148549.20	Identified during field verification. Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-546	206-L (55-gal) empty galvanized fuel tank, no staining visible.	575724.54	148599.51	Identified during field verification. Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	This feature has been classified as Miscellaneous Restoration.	MR
SG4-547	206-L (55-gal) drum cut down and used as weir box.	575623.01	148729.52	Identified during field verification. Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-548	114-L (30-gal) empty drum and two empty fuel tanks, no staining visible.	575694.53	148512.75	Identified during field verification. Spatial analysis using WCH GIS data indicates this feature is located approximately 20 m west of a known pre-Hanford farmstead.	This feature has been classified as Miscellaneous Restoration.	MR
SG4-549	1-m area of bare ground with multiple oil filters.	572340.93	142187.40		This feature is classified as an Orphan Site.	OS
SG4-551	5-m area with five oil filters, no staining visible.	572326.96	142304.30		This feature has been classified as Stewardship.	S
SG4-552	20-m area of scattered wood and metal debris. No secondary evidence of staining visible.	572644.32	142385.72	Spatial analysis using WCH GIS data indicates this feature is located within Pit #28 at the west end of Gable Mountain.	This feature has been classified as Stewardship.	S
SG4-553	30-m area of scattered debris consisting of braided cable, decayed utility pole, and rudder shoe cover.	572706.74	142353.84	Spatial analysis using WCH GIS data indicates this feature is located within Pit #28 at the west end of Gable Mountain.	This feature has been classified as Stewardship.	S
SG4-554	30-m area of farmstead debris consisting of cans, bottles, buckets, and dry cell batteries. No secondary evidence of staining visible.	578266.33	146213.04		This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-555	35-m area with two strings of electrical insulators.	581524.33	140579.70	Spatial analysis using WCH GIS data indicates this feature is associated with former 230 KV switch station A-22.	This feature has been classified as Stewardship.	S

Table 7-4. Segment 4 Orphan Sites Evaluation Summary. (57 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4-556	Two truck tires.	581683.48	138965.54		This feature has been classified as Stewardship.	S
SG4-557	206-L (55-gal) empty drum and 19-L (5-gal) bucket, no staining visible.	581840.18	139051.86		This feature has been classified as Miscellaneous Restoration.	MR
SG4-558	Wooden cable spool.	581586.13	138998.51		This feature has been classified as Stewardship.	S
SG4-559	15-m area of scattered debris consisting of a decaying utility pole and a guy anchor.	581528.79	140244.14		This feature has been classified as Stewardship.	S
SG4-560	18-m long wood utility pole lying on the ground.	579558.09	141102.05		This feature has been classified as Stewardship.	S
SG4-561	15-m long wood utility pole lying on the ground.	576111.78	140167.47		This feature has been classified as Stewardship.	S
SG4-562	Northwest end of a telecommunications cable lying on the ground.	576720.87	142614.82		This feature has been classified as Miscellaneous Restoration.	MR
SG4-562	Southeast end of a telecommunications cable lying on the ground.	576799.29	142508.19		This feature has been classified as Miscellaneous Restoration.	MR
SG4-563	2- x 3-m pre-Hanford concrete irrigation valve box.	578827.29	144519.43		This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-564	8-m area of farmstead debris consisting of a concrete-lined 206-L (55-gal) drum used as an irrigation weir box and scattered metal, wood debris.	578296.07	144447.69	Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-565	15-m area of farmstead debris wood, cans, glass, stovepipe, and two dry cell batteries. No secondary evidence of staining visible.	577996.03	144510.69	Spatial analysis using WCH GIS data indicates this feature is located approximately 41 m southwest of a known pre-Hanford farmstead.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-566	4-m area of bare ground, no staining or debris visible.	572766.47	144811.45	Spatial analysis using WCH GIS data indicates this feature is located approximately 175 m east of pit #23.	This feature has been classified as Stewardship.	S
SG4-567	1- x 2-m decayed wood irrigation weir box adjacent to the historic irrigation canal.	580103.03	142786.57	Spatial analysis using WCH GIS data indicates this feature is within a known pre-Hanford farmstead.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4-568	Empty 57-L (15-gal) drum, no staining visible.	572550.29	142853.06	Field verified on 01/04/2011.	This feature has been classified as Miscellaneous Restoration.	MR

Table 7-4. Segment 4 Orphan Sites Evaluation Summary. (57 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4-569	South end of a 2,250-m linear disturbed area 30 m west of where the GIS data show the 600-235 WIDS (CHPRC, No Action) LSCC (lead-sheathed communication cable) enters a section of SG4.	577912.53	149452.07	Geophysics (GI # 0614561) was conducted on this linear, but no utility lines were detected.	This feature has been classified as Stewardship.	S
SG4-569	North end of a 2,250-m linear disturbed area 30 m west of where the GIS data show the 600-235 WIDS (CHPRC, No Action) LSCC exits a section of SG4.	577906.98	151663.12		This feature has been classified as Stewardship.	S
SG4-570	South end of a 2,350-m linear disturbed area 10 m east of where the GIS data show the 600-235 WIDS (CHPRC, No Action) LSCC (lead-sheathed communication cable) enters a section of SG4.	579634.86	138832.40	Geophysics (GI # 061451) was conducted on this linear. Two utility lines running in the east-west direction and one in the north-south converged in the area of the phone pedestal.	This feature has been classified as Stewardship.	S
SG4-570	North end of a 2,350-m linear disturbed area 10 m east of where the GIS data show the 600-235 WIDS (CHPRC, No Action) LSCC (lead-sheathed communication cable) ends within a section of SG4.	579624.91	141088.30		This feature has been classified as Stewardship.	S
SG4-571	This feature is an 80-m-diameter cross-shaped trench.	577449.41	140975.31	Spatial analysis using WCH GIS data indicates that this feature was visible in 1969 imagery, which RHO_BWI-LD-5 indicates. This feature is associated with feature SG4-567.	This feature is associated with a geologic study as indicated in RHO- BWI-LD-5 (Geology of Gable Mountain-Gable Butte Area). This feature has been classified as Stewardship.	S
SG4-572	23- x 23-m feature consisting of two oval-like structures next to a pre-Hanford canal.	580948.74	141704.04	This feature is observed in the 1943 imagery and 1969 imagery (#49755-1). The two ovals are not seen in the 2008 imagery. This is historical feature SG4H_001.	Field verification determined nothing at this location. This feature has been classified as Stewardship.	S
SG4-573	160- x 150-m terrain depression. Field verified, but no secondary stains or debris were visible.	576489.53	149096.78	This feature was observed in 1948 aerial photograph #4BBL07032_053, but not in 1943 imagery. This is historical feature SG4H_002.	This feature has been classified as Stewardship.	S

Table 7-4. Segment 4 Orphan Sites Evaluation Summary. (57 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4-574	This feature consisted of five warehouses, one crane operator loft, one rigger's loft, and one ice storage pit associated with the Leazur railroad spur, per HEW, Vol. 2 (1945). Operated from 1943 to 1945 per BHI-00049.	579922.23	145420.63	This feature was classified as TC (Temporary Construction)-10. It directly and indirectly supported construction of the entire site from 1943 to 1945. This is historical feature SG4H_003.	Feature was captured for historical purposes; no buildings remain at this location. This feature has been classified as Stewardship.	S
SG4-575	This feature consists of the north end of a 138-m abandoned aggregate batch plant tunnel per H-11-3709, Rev. 5. Field verified but no obvious opening was observed.	578900.91	150518.14	This is historical feature SG4H_004. It is unknown as to the status (intact or demolished) of this tunnel or what the tunnel construction materials were.	This feature was associated with an aggregate batch plant and contains no known contaminants of concern. This feature has been classified as Stewardship.	S
SG4-575	This feature consists of the south end of a 138-m abandoned aggregate batch plant tunnel per H-11-3709, Rev. 5. Field verified but no obvious opening was observed.	578967.84	150404.01	This is historical feature SG4H_004. It is unknown as to the status (intact or demolished) of this tunnel or what the tunnel construction materials were.	This feature was associated with an aggregate batch plant and contains no known contaminants of concern. This feature has been classified as Stewardship.	S
SG4-576	This feature consists of the west end of a 0.5-m reinforced concrete pipe per railroad drawing H-6-173, sht 26, Rev. 2, that channels rainwater.	579324.72	146687.26	This feature actually has two segments, one going under the road and another under the railroad bed. This is historical feature SG4H_005.	This feature has been classified as Stewardship.	S
SG4-577	This feature consists of a wood bunker seen in photographs 3356_Photo (04071955) and D8229_Storage_ Bunker (11151944).	581811.67	139065.76	This is historical feature SG4H_007. SG4-496 describes the same feature.	This feature has been classified as Stewardship.	S
SG4-578	This feature consists of a septic tank and associated tile field that was connected to the former 506 telephone exchange building.	581295.20	138771.13	This is historical feature SG4H_008. Geophysics was conducted in November 2010 (GI #0614558) and the historical septic tank and associated piping was indicated. The drain field was not indicated in the results.	Due to the nature of operations at the 506 building, no contaminants of concern are expected. This feature has been classified as Stewardship.	S

Table 7-4. Segment 4 Orphan Sites Evaluation Summary. (57 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4-579	This feature consists of a septic tank and associated tile field that was connected to the former 506 telephone exchange building.	581216.69	138754.35	This is historical feature SG4H_009. Geophysics was conducted in November 2010 (GI #0614558) and the historical septic tank and associated piping/drain field were not located.	Due to the nature of operations at the 506 building, no contaminants of concern are expected. This feature has been classified as Stewardship.	S
SG4-580	This feature consists of a 380-L (100-gal) underground storage tank used to store fuel for the 506 telephone exchange emergency generator building.	581237.93	138768.82	This is historical feature SG4H-010. Geophysics was conducted in November 2010 (GI #0614558) and the historical underground storage tank was indicated.	This feature is classified as an Orphan Site.	OS
SG4-581	This feature consists of a septic tank and associated tile field that was connected to the former 506A telephone exchange building.	577882.88	148951.03	This is historical feature SG4H_011. Geophysics was conducted in November 2010 (GI #0614560) and the historical septic tank and associated piping was indicated. The drain field was not indicated in the results.	Due to the nature of the associated facility, no contaminants of concern are expected. This feature has been classified as Stewardship.	S
SG4-582	This feature consists of a septic tank that was associated with the office support area of the former NSTF.	573597.02	142534.05	All information associated with the NSTF will be provided to CHPRC for disposition. This is historical feature SG4H_0012.	This feature has been classified as No Further Evaluation.	NFE
SG4-583	This feature consists of a septic tank with connecting drain field that was associated with the office support area of the former NSTF.	573657.13	142606.21	This feature is likely WIDS site 600 NSTFST (CHPRC, Closed Out). The WIDS site is approximately 30 m south of the septic system drain field indicated on H-6-2209. This is historical feature SG4H_013.	This feature has been classified as No Further Evaluation.	NFE
SG4-584	This feature consists of a 10-cm-diameter x 18-m-long perforated PVC pipe used to drain an NSTF operations trailer sinks.	573811.82	142250.29	All information associated with the NSTF will be provided to CHPRC for disposition. This is historical feature SG4H_014.	This feature has been classified as No Further Evaluation.	NFE

Table 7-4. Segment 4 Orphan Sites Evaluation Summary. (57 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4-585	This feature consists of a 0.9- x 3-m-long septic holding tank used by a NSTF operations trailer.	573804.90	142240.98	All information associated with the NSTF will be provided to CHPRC for disposition. This is historical feature SG4H_015.	This feature has been classified as No Further Evaluation.	NFE
SG4-586	This feature consists of a 10-cm-diameter x 6-m-long perforated PVC pipe used to drain the NSTF 627 Building (Computer Building) HVAC equipment.	573777.36	142239.53	All information associated with the NSTF will be provided to CHPRC for disposition. This is historical feature SG4H_016.	This feature has been classified as No Further Evaluation.	NFE
SG4-587	This feature consists of a sand-bagged explosive storage area approximately 61 m west of the former 644 Building per drawing H-6-504, Rev. 0. No secondary stains or debris was observed.	576179.50	142320.56	This feature was part of WIDS 600-146 (Accepted Site) historical operations, but this site is approximately 38 m west of the WIDS footprint. 600-146 has been cleaned up per WSRF 2010-045. Map (57607-4CN, 1972) shows an explosive likely related to this feature.	No evidence of sandbags, debris, or staining remain at this location. This feature has been classified as Stewardship.	S
SG4-588	This feature consists of a 30.5-cm-diameter x 35.6-cm drywell connected to the 506 building well pump pit/house per H-5-670, sht 1, Rev. 1 and H-5-716, sht 1, Rev. 0.	581268.23	138770.33	Well 699-50-28D (B2535) was decommissioned 9-11-1995 per ECN-611433. Drywell is probably still in place per information in ECN-611433. This is historical feature SG4H_018.	This feature has been classified as Stewardship.	S
SG4-589	This feature consists of a 2- x 5.5- x 2-m-deep cable vault/with hatch and sump pit that was within the 506A telephone exchange building.	577902.28	148949.00	The sump pit had no pipe penetration to ground per indicated drawings. This is historical feature SG4H_019. Geophysics (GI #0614560) was conducted at this location; the vault was located, but results indicated it was full of debris.	This feature has been classified as Stewardship.	S
SG4-590	This feature consists of a 180- x 240-m area that appears to have been scraped, as seen in 1948 aerial (1948_51r.tif). No secondary stains or debris were observed.	573267.13	147881.22	This feature is visible in a 1957 aerial, but not as apparent as in the 1948 imagery. This is historical feature SG4H_020.	This feature has been classified as Stewardship.	S

Table 7-4. Segment 4 Orphan Sites Evaluation Summary. (57 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4-591	This feature consists of a 114-L (30-gal) drum buried 1/3 of the way into the ground and a 1-m-diameter corrugated metal culvert in the ground.	581190.69	138751.31	Spatial analysis using WCH GIS data indicates that this feature is located approximately 55 m west-southwest of the former 506 telephone exchange building. Geophysics (GI # 0614558) indicated nothing connected to the vertical pipe.	This feature has been classified as Stewardship.	S
SG4-592	This feature consists of a 4-m burn area with visible remnants.	578655.43	140002.22	Spatial analysis using WCH GIS data indicates there was a terrain disturbance at this location in 1943 imagery.	This feature is classified as an Orphan Site.	OS

[a] MR = Miscellaneous Restoration OS = Orphan Site
NFE = No Further Evaluation S = Stewardship

CHPRC = CH2M HILL Plateau Remediation Company
GIS = Geographical Information System
GPS = global positioning system
HVAC = heating, ventilation, and air conditioning
IR = infrared
LiDAR = Light Detection and Ranging
LSCC = lead sheathed communication cable
MSA = Mission Support Alliance
NSTF = Near-Surface Test Facility
OSE = Orphan Sites Evaluation
PVC = polyvinyl chloride
WCH = Washington Closure Hanford
WIDS = Waste Information Data System
WSRF = waste site reclassification form

BHI-00049, *Historical Background Information of the White Bluffs Pickling Acid Crib Area*, Rev. 1, Bechtel Hanford, Inc., Richland, Washington.
HEW, 1945, "Construction of Hanford Engineer Works," HAN-10970, Hanford Engineer Works, E. I. DuPont, Wilmington, Delaware.
RHO-BWI-LD-5, 1978, *Geology of Gable Mountain-Gable Butte Area*, Rockwell Hanford Operations, Richard, Washington.

Table 7-5. Segment 4 (100-D/H Features). (18 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4DH-001	2-m area of metal and concrete pre-Hanford irrigation debris.	577974.146	151009.636	This feature is within 100 m of a known historical farm GIS boundary.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4DH-002	15-m-diameter area of pre-Hanford metal debris. Automobile body parts.	577930.042	151002.999	This feature is within a known historical farm GIS boundary.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4DH-003	15-m-diameter area of scattered asphalt debris. This asphalt is fairly flat and blends into the landscape.	577752.714	150978.652	This feature is within a known historical farm GIS boundary.	This feature is classified as Stewardship.	S
SG4DH-004	Two smashed oil filters in an area less than 1 m; no staining visible.	578019.499	150964.519	This feature is within 100 m of a known historical farm GIS boundary.	This feature is classified as Stewardship.	S
SG4DH-005	30-m area of farmstead debris, metal, glass, and three dry cell battery remnants. Bare ground is a 0.3- x 0.3-m area. Poly walked.	577919.959	151099.499	This feature is within 100 m of a known historical farm GIS boundary.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4DH-006	10-m area of farmstead debris, metal cans, and glass jars.	577841.726	151081.571	This feature is within a known historical farm GIS boundary.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4DH-007	One oil filter with no visible oil-related bare ground or staining visible.	578576.7	151087.49	This feature is within 100 m of a known historical farm GIS boundary.	This feature is classified as Stewardship.	S
SG4DH-008	Junction box.	577676.112	151143.613	This feature is within a known historical farm GIS boundary.	This feature is classified as Stewardship.	S
SG4DH-009	50-m area of farmstead debris, meta, and glass. Poly walked.	578141.201	151239.237		This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4DH-010	206-L (55-gal) deteriorated drum remnants; drum is partially filled with soil. No staining visible.	577980.877	151213.317		This feature consists of pre-Hanford debris and is classified as Stewardship	S
SG4DH-011	9-m long decaying wood utility pole lying on the ground.	577687.812	151238.299	This feature is within a known historical farm GIS boundary.	This feature is classified as Stewardship.	S
SG4DH-012	Approximate 10-m-long 3-cm-diameter lead conduit filled with copper wires. This feature is above ground as loose debris.	577910.139	151230.493		This feature has been classified to be removed and disposed.	MR

Table 7-5. Segment 4 (100-D/H Features). (18 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4DH-013	15-m-diameter area of farmstead debris consisting of metal debris, cans, and car frame.	578067.853	151443.54	This feature is within 100 m of a known historical farm GIS boundary.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4DH-014	45-m area of farmstead debris, metal, glass. Poly walked.	577509.709	151001.238	This feature is within a known historical farm GIS boundary.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4DH-015	206-L (55-gal) empty crushed drum, no staining visible.	577560.569	150971.249	This feature is within a known historical farm GIS boundary.	This feature is classified as Stewardship.	S
SG4DH-016	20-m-diameter area of farmstead debris, metal, glass, and water pipes. Poly walked.	577584.245	150979.952	This feature is within a known historical farm GIS boundary.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4DH-017	2-m-diameter concrete-lined below-grade structure. This structure appears constructed with pre-Hanford concrete.	577090.515	151008.444	This feature is within a known historical farm GIS boundary.	This feature is classified as Stewardship.	S
SG4DH-018	10- x 30- x 3-m trench with some metal and concrete debris. No staining visible.	577122.123	151131.892	This feature is within a known historical farm GIS boundary.	This feature is classified as Stewardship.	S
SG4DH-019	6-m-diameter area of metal debris. This feature is within an area with multiple railroad related features. These items are constructed of metal, but what they were used for is unknown.	577002.502	151134.608	This feature is within a known historical farm GIS boundary.	This feature is classified as Stewardship.	S
SG4DH-020	2-m-diameter area of bare ground with fabric 30 m from a railroad track in an area with multiple similar features.	577000.527	151137.194	This feature is within a known historical farm GIS boundary.	This feature is classified as Stewardship.	S
SG4DH-021	40-m area near railroad tracks and consists of a 30-m-long wire rope some metal debris and a 2-m area with what resembles tar.	576941.802	151122.232	This feature is within a known historical farm GIS boundary.	This feature is classified as Stewardship.	S
SG4DH-022	40-m area of decayed wood, metal slugs that appear be punch outs from a sheet of metal, and a couple rags that have what appears to be tar on them.	576983.323	151156.275	This feature is within a known historical farm GIS boundary.	This feature is classified as Stewardship.	S
SG4DH-023	One oil filter with no staining related to the filter visible.	577356.702	151314.684	This feature is within a known historical farm GIS boundary.	This feature is classified as Stewardship.	S

Table 7-5. Segment 4 (100-D/H Features). (18 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4DH-024	15-m area of utility poles lying on the ground.	577610.857	151442.864	This feature is within 100 m of a known historical farm GIS boundary.	This feature is classified as Stewardship.	S
SG4DH-025	Standard single bulb light fixture with 1 m of wire and bracing lying on the ground.	577315.575	151444.571		This feature is classified as Stewardship.	S
SG4DH-026	12-m area with four concrete transmission tower footings. Poly walked.	577178.03	151403.554	This feature is within 100 m of a known historical farm GIS boundary.	Spatial analysis using WCH GIS data indicates this feature is associated with a 230 KV feeder line per west-71484, sht 1, Rev. 7. This feature has been classified as Stewardship.	S
SG4DH-027	12-m area with four concrete transmission tower footings.	576721.083	151273.514	This feature is within a known historical farm GIS boundary.	Spatial analysis using WCH GIS data indicates this feature is associated with a 230 KV feeder line per west-71484, sht 1, Rev. 7. This feature has been classified as Stewardship.	S
SG4DH-028	10- x 46-cm metal cylinder.	576701.265	151747.148	This feature is within a known historical farm GIS boundary.	This feature is classified as an Orphan Site.	OS
SG4DH-029	12-m area with four concrete transmission tower footings.	576599.016	151015.506	This feature is within 100 m of a known historical farm GIS boundary.	Spatial analysis using WCH GIS data indicates this feature is associated with a 230 KV feeder line per west-71484, sht 1, Rev. 7. This feature has been classified as Stewardship.	S
SG4DH-030	Approximate 4-m-diameter area consisting of dry cell battery remnants on bare ground.	576455.35	151417.875	This feature is within a known historical farm GIS boundary.	This feature is classified as an Orphan Site.	OS
SG4DH-031	Two oil filters lying on the ground with no staining visible.	576371.241	151601.33	This feature is within a known historical farm GIS boundary.	This feature is classified as Stewardship.	S
SG4DH-032	2- x 3-m below-grade concrete-lined structure (depth unknown).	576277.239	151529.227	This feature is within a known historical farm GIS boundary.	This feature is classified as Stewardship.	S
SG4DH-033	206-L (55-gal) cut down empty drum with no staining visible.	576148.876	150962.643	This feature is within a known historical farm GIS boundary.	This feature is classified as Stewardship	S
SG4DH-034	5-m area of concrete debris.	576172.099	151395.125	This feature is within a known historical farm GIS boundary.	This feature is classified as Stewardship.	S
SG4DH-035	206-L (55-gal) empty drum no top or bottom with no staining visible.	576163.956	151521.882	This feature is within a known historical farm GIS boundary.	This feature has been classified to be removed and disposed.	MR
SG4DH-036	206-L (55-gal) empty crushed drum, no staining visible.	576117.421	151077.022	This feature is within a known historical farm GIS boundary.	This feature is classified as Stewardship	S

Table 7-5. Segment 4 (100-D/H Features). (18 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4DH-037	1- x 1-m piece of sheet metal.	575776.434	151749.308	This feature is within a known historical farm GIS boundary.	This feature is classified as Stewardship.	S
SG4DH-038	5.7-L (1.5-gal) hand-held brass canister (fire extinguisher) with hose.	575513.337	150960.89	This feature is within a known historical farm GIS boundary.	This feature is classified as Stewardship.	S
SG4DH-039	Approximate 4-m-diameter area yellow and white powder.	575505.736	151010.616	This feature is within a known historical farm GIS boundary.	This feature is classified as an Orphan Site.	OS
SG4DH-040	Approximate 15-m-diameter area of yellow and white powder. Poly walked.	575481.948	151135.371	This feature is within a known historical farm GIS boundary.	This feature is classified as an Orphan Site.	OS
SG4DH-041	3-m area of pre-Hanford debris consisting of metal cans, bucket, and glass jar.	575413.09	151303.314	This feature is within a known historical farm GIS boundary.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4DH-042	35-m area of pre-Hanford concrete chunks, foundation, metal, and glass debris. Poly walked.	575303.015	151370.112	This feature is within a known historical farm GIS boundary.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4DH-043	Seven dry cell batteries in an approximate 3-m area of bare ground.	575303.197	151382.354	This feature is within a known historical farm GIS boundary.	This feature is classified as an Orphan Site.	OS
SG4DH-044	20-m-diameter area of farmstead metal debris. Poly walked.	575252.094	151400.012	This feature is within a known historical farm GIS boundary.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4DH-045	Two drums 13-m apart; one is a 206-L (55-gal) empty drum the other is a cut in half 206-L (55-gal) drum with what looks like grout in it, no staining visible.	575203.891	151642.836	This feature is within a known historical farm GIS boundary.	This feature has been classified to be removed and disposed.	MR
SG4DH-046	30 m area of farmstead debris metal, concrete, and a 3-m-diameter burn area, no remnants visible during field visit. Poly walked.	575132.389	151353.559	This feature is within a known historical farm GIS boundary.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4DH-047	5-m area of farmstead debris, metal buckets.	575069.656	151334.532	This feature is within a known historical farm GIS boundary.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4DH-048	10-m area of metal farmstead debris.	575077.5	151212.069	This feature is within a known historical farm GIS boundary.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4DH-049	Guy wire cable and guard.	576528.436	150942.334	This feature is within 100 m of a known historical farm GIS boundary.	This feature has been classified to be removed and disposed.	MR

Table 7-5. Segment 4 (100-D/H Features). (18 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4DH-050	12-m area with four concrete transmission tower footings.	576476.13	150754.287		Spatial analysis using WCH GIS data indicates this feature is associated with a 230 KV feeder line per west-71484, sht 1, Rev. 7. This feature has been classified as Stewardship.	S
SG4DH-051	Three concrete cleanouts.	576476.604	150793.809		This feature is classified as Stewardship.	S
SG4DH-052	4-m concrete cleanout.	576318.983	150927.93	This feature is within a known historical farm GIS boundary.	This feature is classified as Stewardship.	S
SG4DH-053	5-m area of farmstead debris cans, glass, and one dry cell battery (carbon core only).	576303.679	150695.472		This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4DH-054	Two oil filters in an approximate 1-m area of bare ground.	576315.892	150679.753		This feature is classified as an Orphan Site.	OS
SG4DH-055	Approximate 5-m area of bare ground with three oil filters.	576286.206	150613.712	This feature is within 100 m of a known historical farm GIS boundary.	This feature is classified as an Orphan Site.	OS
SG4DH-056	8-m area of farmstead debris metal, concrete, and glass.	576242.973	150899.686	This feature is within 100 m of a known historical farm GIS boundary.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4DH-057	Dry cell battery pack in a 1-m area of bare ground. Approximately 30 batteries.	576163.427	150781.104		This feature is classified as an Orphan Site.	OS
SG4DH-058	12-m area of farmstead debris metal cans, glass, and wire.	576156.488	150790.454		This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4DH-059	6 m of concrete cleanouts.	576182.865	150927.668	This feature is within a known historical farm GIS boundary.	This feature is classified as Stewardship.	S
SG4DH-060	Dry cell battery pack in a 1-m area of bare ground. Approximately 30 batteries.	576116.577	150791.637		This feature is classified as an Orphan Site.	OS
SG4DH-061	10-m area of debris consisting of two spools of metal cable and metal debris.	576069.267	150382.412	This feature is within a known historical farm GIS boundary.	The metal debris is classified Stewardship and the spools have been classified to be removed and disposed.	MR/S
SG4DH-062	10- x 10-m pre-Hanford house foundation.	576028.797	150920.549	This feature is within 100 m of a known historical farm GIS boundary.	This feature consists of pre-Hanford foundation and is classified as Stewardship.	S
SG4DH-063	4-m-diameter concrete cleanout.	576008.885	150902.51	This feature is within 100 m of a known historical farm GIS boundary.	This feature is classified as Stewardship.	S

Table 7-5. Segment 4 (100-D/H Features). (18 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4DH-064	4-m-diameter concrete cleanout.	575948.202	150916.112	This feature is within 100 m of a known historical farm GIS boundary.	This feature is classified as Stewardship.	S
SG4DH-065	3-m-diameter concrete cleanout.	575959.256	150895.43	This feature is within 100 m of a known historical farm GIS boundary.	This feature is classified as Stewardship.	S
SG4DH-066	Approximate 1-m area of bare ground and one oil filter.	575923.366	150876.064	This feature is within 100 m of a known historical farm GIS boundary.	This feature is classified as an Orphan Site.	OS
SG4DH-067	2-m-diameter concrete cleanout.	575877.866	150850.604	This feature is within 100 m of a known historical farm GIS boundary.	This feature is classified as Stewardship.	S
SG4DH-068	Two farmstead foundations in a 50-m area. Both foundations are 10-m-diameter areas.	575807.839	150769.304		This feature consists of pre-Hanford foundation and is classified as Stewardship.	S
SG4DH-069	70-m-diameter area with multiple concrete cleanouts.	575775.062	150900.497	This feature is within 100 m of a known historical farm GIS boundary.	This feature is classified as Stewardship.	S
SG4DH-070	3-m-long utility pole segment lying on the ground.	574677.098	151899.215	This feature is within 100 m of a known historical farm GIS boundary.	This feature is classified as Stewardship.	S
SG4DH-071	8-m-long decayed utility pole lying on the ground.	575254.701	152096.913	This feature is within 100 m of a known historical farm GIS boundary.	This feature is classified as Stewardship.	S
SG4DH-072	5-m-long aluminum angle stock lying on the ground.	574575.391	152236.221		This feature has been classified to be removed and disposed.	MR
SG4DH-073	30-m area of farmstead metal and decayed wood debris.	575220.837	152235.52	This feature is within 100 m of a known historical farm GIS boundary.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4DH-074	46- x 30-cm cast iron pipe lying on the ground.	574573.286	152307.408		This feature is classified as Stewardship.	S
SG4DH-075	2- x 2-m pad with eight anchor bolts.	574571.743	152395.953	Spatial analysis using WCH GIS data indicates this feature is WIDS 100-D-37 (Not Accepted). 1614-D-3 monitoring station.	This feature is classified as Stewardship.	S
SG4DH-076	1- x 1-m concrete pad/post base.	574581.394	152405.612		This feature is classified as Stewardship.	S
SG4DH-077	206-L (55-gal) empty drum, no staining visible.	574832.865	152398.396		This feature has been classified to be removed and disposed.	MR
SG4DH-078	15-m-diameter area of pre-Hanford debris; metal, glass, and automobile parts. Poly walked.	575073.27	152466.873	This feature is within 100 m of a known historical farm GIS boundary.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S

Table 7-5. Segment 4 (100-D/H Features). (18 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4DH-079	1-m-diameter areas of bare ground at two locations with two dry cell battery debris that are 10 m apart.	575068.449	152464.615	This feature is within 100 m of a known historical farm GIS boundary.	This feature is classified as an Orphan Site.	OS
SG4DH-080	114-L (30-gal) empty drum, no staining visible.	575073.976	152459.258	This feature is within 100 m of a known historical farm GIS boundary.	This feature has been classified to be removed and disposed.	MR
SG4DH-081	114-L (30-gal) empty drum, no staining visible.	575023.846	152479.398		This feature has been classified to be removed and disposed.	MR
SG4DH-082	4 m area of concrete and wire debris.	574568.549	152506.903	This feature is within 100 m of a known historical farm GIS boundary.	This feature is classified as Stewardship.	S
SG4DH-083	8-m area of farmstead debris, metal, and glass.	574475.009	152503.684	This feature is within 100 m of a known historical farm GIS boundary.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4DH-084	10-m wire rope, cable (heavy).	573878.484	152536.761	This feature is within a known historical farm GIS boundary.	This feature has been classified to be removed and disposed.	MR
SG4DH-085	30-m area with a concrete cleanout (5 yd) and a decayed wood utility pole lying on the ground.	573776.882	152531.604	This feature is within a known historical farm GIS boundary.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4DH-086	25-cm pipe, 7 m visible.	573701.469	152533.314	This feature is within 100 m of a known historical farm GIS boundary.	This feature has been classified to be removed and disposed.	MR
SG4DH-087	4-m area, 0.5-in. steel plate.	573682.862	152526.689	This feature is within 100 m of a known historical farm GIS boundary.	This feature is classified as Stewardship.	S
SG4DH-088	Two abandoned utility poles still standing.	573963.386	152634.125	This feature is within a known historical farm GIS boundary.	This feature has been classified to be removed and disposed.	MR
SG4DH-089	3-m-long decayed wood utility pole lying on the ground.	574381.566	152618.103	This feature is within a known historical farm GIS boundary.	This feature is classified as Stewardship.	S
SG4DH-090	Pre-Hanford irrigation debris consisting of a 30-cm pipe segment 6 m long.	573929.933	152671.945	This feature is within a known historical farm GIS boundary.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4DH-091	5-m guy wire and guard.	574385.35	152685.59	This feature is within a known historical farm GIS boundary.	This feature has been classified to be removed and disposed.	MR
SG4DH-092	15-m-diameter area of ash with no remnants visible.	574338.967	152714.343	This feature is within a known historical farm GIS boundary. This feature is visible in the 1957 imagery, but not visible in the 1943 imagery.	This feature is classified as Stewardship.	S

Table 7-5. Segment 4 (100-D/H Features). (18 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4DH-093	60-m area of concrete, bricks, and metal. Poly walked.	574158.51	152760.494	This feature is within a known historical farm GIS boundary.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4DH-094	4- x 5-m concrete slab and a water pipe.	574361.749	152735.533	This feature is within a known historical farm GIS boundary.	This feature is classified as Stewardship.	S
SG4DH-095	2- x .5-m farmstead below grade concrete structure with two holes visible.	574379.055	152736.198	This feature is within a known historical farm GIS boundary.	This feature is classified as Stewardship.	S
SG4DH-096	15-m area of farmstead debris, metal, and glass. Poly walked.	575298.63	152061.949	This feature is within 100 m of a known historical farm GIS boundary.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4DH-097	Approximate 1-m area of bare ground with multiple dry cell batteries.	575298.778	152062.235	This feature is within 100 m of a known historical farm GIS boundary.	This feature is classified as an Orphan Site.	OS
SG4DH-098	206-L (55-gal) empty drum, no staining visible.	575263.136	152061.594	This feature is within 100 m of a known historical farm GIS boundary.	This feature has been classified to be removed and disposed.	MR
SG4DH-099	40-m area of farmstead foundations and concrete debris. Poly walked.	575294.529	152233.749	This feature is within a known historical farm GIS boundary.	This feature consists of pre-Hanford foundation and is classified as Stewardship.	S
SG4DH-100	206-L (55-gal) empty drum, no staining visible.	575261.531	152204.442	This feature is within a known historical farm GIS boundary.	This feature has been classified to be removed and disposed.	MR
SG4DH-101	5-m area of metal farmstead debris.	575335.095	152244.113	This feature is within a known historical farm GIS boundary.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4DH-102	Approximate 10-m area with two locations 5 m apart of stained soil resembling tar.	575312.274	152256.576	This feature is within a known historical farm GIS boundary.	This feature is classified as an Orphan Site.	OS
SG4DH-103	206-L (55-gal) empty drum, no staining visible.	575419.701	152384.947	This feature is within a known historical farm GIS boundary.	This feature has been classified to be removed and disposed.	MR
SG4DH-104	8-m area of metal farmstead debris, cans, and automobile parts.	575424.608	151885.087		This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4DH-105	50-m area of farmstead debris, decayed wood utility poles, concrete below ground structure, glass, and metal. Poly walked.	575478.954	152157.569	This feature is within a known historical farm GIS boundary.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4DH-106	206-L (55-gal) drum crushed, cut down and full of dirt, no staining visible.	575465.514	152384.714	This feature is within a known historical farm GIS boundary.	This feature is classified as Stewardship.	S

Table 7-5. Segment 4 (100-D/H Features). (18 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4DH-107	60-m area of farmstead debris metal, glass, and concrete. Poly walked.	575494.403	152223.423	This feature is within a known historical farm GIS boundary.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4DH-108	Approximate 4-m area of stained soil and the smudge pots at the edge of the stained area.	575508.771	152209.015	This feature is within a known historical farm GIS boundary.	This feature is classified as an Orphan Site.	OS
SG4DH-109	114-L (30-gal) garbage can.	575608.96	152343.77	This feature is within a known historical farm GIS boundary.	This feature is classified as Stewardship.	S
SG4DH-110	One wet cell car battery remnants 1 m from a dirt road. There was no vegetation anomaly associated with the battery visible.	575619.302	152555.295	This feature is within a known historical farm GIS boundary.	This feature is classified as an Orphan Site.	OS
SG4DH-111	1- x 1-m concrete weir box.	575669.819	152163.267	This feature is within 100 m of a known historical farm GIS boundary.	This feature consists of pre-Hanford irrigation debris and is classified as a Stewardship.	S
SG4DH-112	10-m area of farmstead foundation. Poly walked.	575684.301	152204.284	This feature is within 100 m of a known historical farm GIS boundary.	This feature consists of pre-Hanford foundation and is classified as Stewardship.	S
SG4DH-113	10-m area of farmstead foundation. Poly walked.	575690.931	152241.4	This feature is within 100 m of a known historical farm GIS boundary.	This feature consists of pre-Hanford foundation and is classified as Stewardship.	S
SG4DH-114	3-m-long 15-cm-diameter crushed stove pipe section lying on the ground.	575684.939	152391.007	This feature is within 100 m of a known historical farm GIS boundary.	This feature is classified as Stewardship.	S
SG4DH-115	6-m-diameter area of metal debris.	575720.495	152515.94	This feature is within 100 m of a known historical farm GIS boundary.	This feature is classified as Stewardship.	S
SG4DH-116	8-m area of farmstead metal debris.	575718.981	151775.015	This feature is within 100 m of a known historical farm GIS boundary.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4DH-117	120-m-diameter area of farmstead debris, metal and glass. Poly walked.	576075.858	151828.502	This feature is within 100 m of a known historical farm GIS boundary.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4DH-118	30-m area of farmstead debris automobile parts and wire rope. Poly walked.	576037.154	152549.331	This feature is within a known historical farm GIS boundary.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4DH-119	Two oil filters in an approximate 3-m-diameter area of bare ground.	576231.571	151788.478	This feature is within 100 m of a known historical farm GIS boundary.	This feature is classified as an Orphan Site.	OS

Table 7-5. Segment 4 (100-D/H Features). (18 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4DH-120	10-m area of farmstead debris, metal, glass, and dry cell batteries. No staining related with the battery.	576335.269	152474.53		This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4DH-121	Approximate 1.5-m area of stained, crusted soil.	575684.069	151248.983	This feature is within a known historical farm GIS boundary.	This feature is classified as an Orphan Site.	OS
SG4DH-122	19-L (5-gal) empty can, no staining visible.	576457.656	151908.493	This feature is within 100 m of a known historical farm GIS boundary.	This feature is classified as Stewardship.	S
SG4DH-123	30-m area of debris consisting of two vehicle gas tanks and an 8-L (2-gal) bucket with a substance that resembles tar inside.	576722.378	151834.646	This feature is within a known historical farm GIS boundary.	The fuel tanks are Stewardship features and the bucket has been classified to be removed and disposed.	MR/S
SG4DH-124	206-L (55-gal) empty drum no staining visible. This drum is 5 m from a roads edge.	576617.354	153382.878		This feature has been classified to be removed and disposed.	MR
SG4DH-125	8-m-diameter depression, no debris or staining visible.	576560.038	152773.234		This feature is classified as Stewardship.	S
SG4DH-126	206-L (55-gal) empty drum, no staining visible.	576488.268	153318.088		This feature has been classified to be removed and disposed.	MR
SG4DH-127	Six dry cell battery remnants (carbon cores only) within an approximate 6-m area, no staining visible.	576348.312	153213.341		This feature is classified as an Orphan Site.	OS
SG4DH-128	70-m area of farmstead debris metal, glass, three foundations, and decayed wood. Poly walked.	576011.269	152616.512	This feature is within a known historical farm GIS boundary.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4DH-129	57-L (15-gal) empty drum, no staining visible.	576003.039	152600.82	This feature is within a known historical farm GIS boundary.	This feature has been classified to be removed and disposed.	MR
SG4DH-130	Remnants from a pre-Hanford buckboard wagon.	575953.991	152582.294	This feature is within a known historical farm GIS boundary.	This feature is classified as Stewardship.	S
SG4DH-131	206-L (55-gal) empty drum, no staining visible.	575851.113	153126.869	This feature is within 100 m of a known historical farm GIS boundary.	This feature has been classified to be removed and disposed.	MR
SG4DH-132	206-L (55-gal) empty drum, no staining visible.	575845.851	153094.253	This feature is within a known historical farm GIS boundary.	This feature has been classified to be removed and disposed.	MR
SG4DH-133	60-m area of farmstead debris, metal car parts, cans, 4- x 8-m concrete slab. Poly walked.	575658.076	153251.346	This feature is within a known historical farm GIS boundary.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S

Table 7-5. Segment 4 (100-D/H Features). (18 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4DH-134	10-m area of farmstead debris, metal cans, glass. Poly walked.	575679.523	152835.874	This feature is within 100 m of a known historical farm GIS boundary.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4DH-135	40-m area of farmstead debris, metal, glass, concrete, brick, 5- x 9-m foundation. Poly walked.	575678.207	152662.807	This feature is within 100 m of a known historical farm GIS boundary.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4DH-136	3- x 4-m below-grade concrete foundation.	575681.713	152602.178	This feature is within 100 m of a known historical farm GIS boundary.	This feature consists of pre-Hanford foundation and is classified as Stewardship.	S
SG4DH-137	70-m area of farmstead metal debris, metal cans, buckets, car parts, wash tub, stove pipe. Poly walked.	575664.447	152571.086	This feature is within 100 m of a known historical farm GIS boundary.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4DH-138	50-m area of farmstead debris, metal, glass, multiple foundations, fence wire, car parts. Poly walked.	575631.311	153308.494	This feature is within a known historical farm GIS boundary.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4DH-139	Approximate 5-m area of three square-type dry cell batteries on bare ground.	575624.336	153303.821	This feature is within a known historical farm GIS boundary.	This feature is classified as an Orphan Site.	OS
SG4DH-140	206-L (55-gal) empty drum, no staining visible.	575575.176	152959.476	This feature is within a known historical farm GIS boundary.	This feature has been classified to be removed and disposed.	MR
SG4DH-141	90-m area farmstead debris, metal, ash with no remnants in a 3-m area, concrete, and glass. Poly walked.	575479.367	152632.357	This feature is within a known historical farm GIS boundary.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4DH-142	8-m-diameter mound of metal rods and plates in 1-m-high dirt mound. Poly walked.	575461.351	152784.905	This feature is within a known historical farm GIS boundary.	This feature is classified as Stewardship.	S
SG4DH-143	Approximate 5-m-tall standing utility pole.	575473.111	153233.922	This feature is within a known historical farm GIS boundary.	This feature has been classified to be removed and disposed.	MR
SG4DH-144	Remnants from a pre-Hanford farm implement.	575406.627	152667.105	This feature is within a known historical farm GIS boundary.	This feature consists of pre-Hanford foundation and is classified as Stewardship.	S
SG4DH-145	206-L (55-gal) crushed drum and an empty 11-L (3-gal) can 4 m apart, no staining.	575412.015	153023.834	This feature is within a known historical farm GIS boundary.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4DH-146	20-m area of ash no remnants visible. Poly walked.	575383.119	153148.645	This feature is within a known historical farm GIS boundary. This feature is visible in the 1957 imagery, but not visible in the 1943 imagery.	This feature is classified as Stewardship.	S

Table 7-5. Segment 4 (100-D/H Features). (18 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4DH-147	70-m area of artillery shell box debris. Poly walked.	575392.759	153079.155	This feature is within a known historical farm GIS boundary.	This feature is classified as Stewardship.	S
SG4DH-148	60-m area of farmstead debris, wood, metal, and concrete. Poly walked.	575327.49	152977.614	This feature is within a known historical farm GIS boundary.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4DH-149	206-L (55-gal) empty cut down drum, no staining visible.	575356.307	152990.929	This feature is within a known historical farm GIS boundary.	This feature is classified as Stewardship.	S
SG4DH-150	35-m area of farmstead debris, decayed wood, metal, and concrete foundation. Poly walked.	575320.893	152610.086	This feature is within a known historical farm GIS boundary.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4DH-151	3- x 3-m below grade concrete foundation.	575290.723	152575.593	This feature is within a known historical farm GIS boundary.	This feature consists of pre-Hanford foundation and is classified as Stewardship.	S
SG4DH-152	Three buckets and metal debris in a 4-m area.	575253.357	153345.599	This feature is within a known historical farm GIS boundary.	This feature is classified as Stewardship.	S
SG4DH-153	Two sections of 30-cm galvanized culvert pipe 7 m long.	575238.695	153168.847	This feature is within 100 m of a known historical farm GIS boundary.	This feature has been classified to be removed and disposed.	MR
SG4DH-154	Four segments galvanized guy wire guard in 6-m area.	575232.463	153243.633	This feature is within 100 m of a known historical farm GIS boundary.	This feature has been classified to be removed and disposed.	MR
SG4DH-155	Approximate 2-m area of debris from multiple dry cell batteries on bare ground.	575222.383	152913.096	This feature is within 100 m of a known historical farm GIS boundary.	This feature is classified as an Orphan Site.	OS
SG4DH-156	30-m area of farmstead debris, wood, metal, and glass. Poly walked.	575207.173	152589.11	This feature is within 100 m of a known historical farm GIS boundary.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4DH-157	206-L (55-gal) empty drum, no staining visible.	574898.961	153213.564	This feature is within 100 m of a known historical farm GIS boundary.	This feature has been classified to be removed and disposed.	MR
SG4DH-158	30-m area of farmstead debris, metal car parts, stove, wood, wire, and glass. Poly walked.	574863.513	153301.87	This feature is within 100 m of a known historical farm GIS boundary.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4DH-159	40-m area of farmstead debris, metal, and concrete. Poly walked.	574826.678	153286.186	This feature is within a known historical farm GIS boundary.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4DH-160	8-m-diameter depression, depth unknown. No debris or staining visible.	574631.278	153275.852	This feature is within a known historical farm GIS boundary.	This feature is classified as Stewardship.	S
SG4DH-161	7-m area consisting of numerous orchard smudge pots. Poly walked.	574534.814	152696.499	This feature is within a known historical farm GIS boundary.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S

Table 7-5. Segment 4 (100-D/H Features). (18 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4DH-162	206-L (55-gal) drum cut down and used as an irrigation weir box.	574671.81	153281.208	This feature is within a known historical farm GIS boundary.	This feature consists of pre-Hanford irrigation debris and is classified as Stewardship.	S
SG4DH-163	206-L (55-gal) drum used as an irrigation weir box.	574616.702	153144.44	This feature is within a known historical farm GIS boundary.	This feature consists of pre-Hanford irrigation debris and is classified as Stewardship.	S
SG4DH-164	30-m area of metal debris and two depressions 5- x 3-m each, depth unknown. Poly walked.	574463.372	152667.545	This feature is within a known historical farm GIS boundary.	This feature is classified as Stewardship.	S
SG4DH-165	206-L (55-gal) crushed drum and eight 19-L (5-gal) cans all empty, no stained soil visible.	574200.62	152806.342	This feature is within a known historical farm GIS boundary.	This feature is classified as Stewardship.	S
SG4DH-166	5-m area of pre-Hanford wood, metal, and concrete debris.	574387.383	152950.983	This feature is within a known historical farm GIS boundary.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4DH-167	206-L (55-gal) empty drum no staining visible.	574244.804	153070.805	This feature is within a known historical farm GIS boundary.	This feature has been classified to be removed and disposed.	MR
SG4DH-168	35-m area of farmstead debris including metal, concrete, and wood.	576210.525	154045.258	This feature is within 100 m of a known historical farm GIS boundary.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4DH-169	Approximate 5-m area of Transite siding dumped in a pile.	576197.878	154069.904	This feature is within 100 m of a known historical farm GIS boundary.	This feature has been classified to be removed and disposed.	MR
SG4DH-170	Remnants from a pre-Hanford truck cab.	576201.043	154116.465	This feature is within 100 m of a known historical farm GIS boundary.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4DH-171	10-m area of metal debris including mostly 19-L (5-gal) buckets (all empty). No stained soil is present.	576257.821	153975.412	This feature is within a known historical farm GIS boundary.	This feature is classified as Stewardship.	S
SG4DH-172	45-m area of farmstead debris including decayed wood, metal, and concrete.	576443.707	154055.701	This feature is within a known historical farm GIS boundary.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4DH-173	10-m area of irrigation pump site debris including a 3- x 5-m concrete slab, a valve encased in concrete, and steel rails. Next to the river's edge.	576445.865	154180.058	This feature is within a known historical farm GIS boundary.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4DH-174	4-m area of farmstead debris including metal, wood, and glass.	576735.554	153809.546	This feature is within a known historical farm GIS boundary.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S

Table 7-5. Segment 4 (100-D/H Features). (18 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4DH-175	4-m area of concrete foundation and slabs.	576815.616	153762.17	This feature is within a known historical farm GIS boundary. Spatial analysis indicates this feature is part of a pre-Hanford farmstead (1943 imagery).	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4DH-176	7-m area concrete foundation and concrete debris.	576797.351	153775.114	This feature is within a known historical farm GIS boundary.	This feature consists of pre-Hanford foundation and is classified as Stewardship.	S
SG4DH-177	4-m area of ash with no remnants visible and utility pole debris in an 8-m area.	576238.427	154206.95	This feature is within 100 m of a known historical farm GIS boundary.	This feature is classified as Stewardship.	S
SG4DH-178	25-m area of concrete and pipe debris related to the export water line.	575637.13	150734.214	This feature is within a known historical farm GIS boundary.	This feature is classified as Stewardship.	S
SG4DH-179	200- x 60-m area with scattered Transite, concrete, and metal debris. It is within 100 m of a known historical farm GIS boundary, 5 m (closest point) from a known cultural resource feature, and approximately 325 m from known military camps.	576211.402	154182.005	Geophysics was conducted at this feature and it appears to extend further north outside the geophysics survey boundary near E 576220.	This feature is classified as an Orphan Site.	OS
SG4DH-180	Three concrete cleanouts in a 10-m area.	575496.453	150914.719	This feature is within a known historical farm GIS boundary.	This feature is classified as Stewardship.	S
SG4DH-181	5-m concrete cleanout.	575466.503	150917.726	This feature is within a known historical farm GIS boundary.	This feature is classified as Stewardship.	S
SG4DH-182	3-m concrete cleanout.	575410.34	150918.235	This feature is within a known historical farm GIS boundary.	This feature is classified as Stewardship.	S
SG4DH-183	114-L (30-gal) empty drum, no staining visible.	575312.143	150923.052	This feature is within a known historical farm GIS boundary.	This feature has been classified to be removed and disposed.	MR
SG4DH-184	2-m concrete cleanout.	575295.741	150918.681	This feature is within a known historical farm GIS boundary.	This feature is classified as Stewardship.	S
SG4DH-185	10-m area of concrete foundation debris from a pre-Hanford structure.	575304.2	150567.188	This feature is within a known historical farm GIS boundary.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4DH-186	2-m-diameter concrete cleanout.	575298.719	150269.937	This feature is within a known historical farm GIS boundary.	This feature is classified as Stewardship.	S
SG4DH-187	Three concrete guy wire anchors in a 5-m area.	574736.034	150913.676		This feature is classified as Stewardship.	S
SG4DH-188	10-m area of concrete cleanouts (3).	574948.501	150860.762	This feature is within 100 m of a known historical farm GIS boundary.	This feature is classified as Stewardship.	S

Table 7-5. Segment 4 (100-D/H Features). (18 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4DH-189	Three oil filters in an approximate 4-m area of bare ground.	574850.417	150781.277		This feature is classified as an Orphan Site.	OS
SG4DH-190	2- x 2-m piece of galvanized sheet metal.	574801.033	150799.759		This feature is classified as Stewardship.	S
SG4DH-191	Concrete post anchor and steel post.	574685.998	150674.396		This feature is classified as Stewardship.	S
SG4DH-192	50-m area with multiple concrete cleanouts and wire rope.	574567.763	150635.176		This feature is classified as Stewardship.	S
SG4DH-193	6- x 4-m concrete foundation.	575024.916	150554.221		This feature consists of pre-Hanford foundation and is classified as Stewardship.	S
SG4DH-194	35- x 6-m area with multiple concrete foundations.	575219.779	150552.567	This feature is within 100 m of a known historical farm GIS boundary.	This feature consists of pre-Hanford foundation and is classified as Stewardship.	S
SG4DH-195	Remnants from a pre-Hanford smashed automobile body.	574537.244	149665.972		This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4DH-196	20-m area of farmstead debris consisting of metal cans and car parts.	574671.405	150133.157		This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4DH-197	8 m area of farmstead debris: metal cans and stove parts.	573086.483	149158.398		This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4DH-198	8-m area of farmstead debris including car parts, bottles, and cans.	574881.716	149930.186		This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4DH-199	206-L (55-gal) empty drum, no staining visible.	574401.335	150305.414		This feature has been classified to be removed and disposed.	MR
SG4DH-200	8- x 8-m farmstead foundation.	574336.891	149707.077		This feature consists of pre-Hanford foundation and is classified as Stewardship.	S
SG4DH-201	30-m area with a 10- x 10-m farmstead foundation and a 2- x 2-m wood-lined below-grade structure (depth unknown).	574295.649	149679.051		This feature consists of pre-Hanford foundation and is classified as Stewardship.	S
SG4DH-202	10- x 10-m area consisting of a pre-Hanford farmstead foundation.	573901.457	149454.613		This feature consists of pre-Hanford foundation and below grade structure and is classified as Stewardship.	S

Table 7-5. Segment 4 (100-D/H Features). (18 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4DH-203	45-m area with multiple concrete cleanouts.	573840.393	150512.017		This feature is classified as Stewardship.	S
SG4DH-204	57-L (15-gal) empty drum, no staining visible.	573164.058	149977.812		This feature has been classified to be removed and disposed.	MR
SG4DH-205	5-m-diameter concrete cleanout.	573358.982	150395.082		This feature is classified as Stewardship.	S
SG4DH-206	2-m-diameter concrete chunk.	573140.289	150650.18		This feature is classified as Stewardship.	S
SG4DH-207	114-L (30-gal) drum and adjacent 19- L (5-gal) can, both empty and no stained soil visible.	576097.672	154233.677		This feature has been classified to be removed and disposed.	MR
SG4DH-208	20-m area of farmstead debris including metal cans, car parts, bottles, and fence wire.	576063.347	154167.801		This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4DH-209	4-m-diameter x 1-m-deep pit with metal cans and bottles.	576021.939	154144.268		This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4DH-210	206-L (55-gal) cut down drum used as an irrigation weir box.	574352.207	153194.382	This feature is within a known historical farm GIS boundary.	This feature consists of pre-Hanford irrigation debris and is classified as Stewardship.	S
SG4DH-211	100-m area of scattered pre-Hanford debris consisting of broken irrigation, automobile and a boat body, fencing, bottles, cans, concrete, and a variety of other items.	574630.737	153373.391	This feature is within 100 m of a known historical farm GIS boundary.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4DH-212	15-m area of debris including one oil filter, metal cans, concrete, and glass bottles.	574726.06	153439.335	This feature is within 100 m of a known historical farm GIS boundary.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4DH-213	15-m area of farmstead debris including metal cans, concrete, and glass bottles.	574800.797	153482.956		This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4DH-214	1-m-diameter truck tire.	574977.217	153841.019		This feature is classified as Stewardship.	S
SG4DH-215	15-m area of farmstead debris including metal cans, car parts, and broken glass bottles.	575055.475	153744.862		This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4DH-216	10-m area of farmstead debris consisting of metal cans, glass, and two dry cell batteries.	575131.036	153822.846		This feature consists of pre-Hanford debris and is classified as Stewardship.	S

Table 7-5. Segment 4 (100-D/H Features). (18 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4DH-217	30-m area of metal cans, glass, concrete rubble, and three dry cell batteries in a 1-m area.	575259.436	153930.027		This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4DH-218	4-m-long carbon steel well casing 20 cm diameter lying on the ground.	575284.285	154357.561		This feature is classified as Stewardship.	S
SG4DH-219	4-m area of military debris consisting of metal piping, cans, and glass debris.	575342.716	153438.109	This feature is within 100 m of a known historical farm GIS boundary.	This feature is classified as Stewardship.	S
SG4DH-220	15-m area of farmstead debris including metal cans, glass, and other debris.	575360.126	153988.098		This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4DH-221	15-m area utility pole debris including metal cable and cable guards.	575572.931	153401.213	This feature is within 100 m of a known historical farm GIS boundary.	This feature has been classified to be removed and disposed.	MR
SG4DH-222	6-m area of ash with no remnants visible.	574355.313	152430.454	This feature is within 100 m of a known historical farm GIS boundary.	This feature is classified as Stewardship.	S
SG4DH-223	1- x 2-m wood-framed metal screen.	575865.942	153676.795	This feature is within a known historical farm GIS boundary.	This feature is classified as Stewardship.	S
SG4DH-224	15-m area of military debris including metal cans and concrete blocks.	575905.982	153618.574	This feature is within a known historical farm GIS boundary.	This feature is classified as Stewardship.	S
SG4DH-225	15-m area of wood debris and two wooden air vents covered with metal screen over a below-grade void space of unknown size.	575918.008	153563.985	This feature is within 100 m of a known historical farm GIS boundary.	This feature is classified as an Orphan Site.	OS
SG4DH-226	206-L (55-gal) crushed and partially buried.	575947.902	153565.985	This feature is within 100 m of a known historical farm GIS boundary.	This feature is classified as Stewardship.	S
SG4DH-227	10-m area within a known military site with scattered pieces of broken Transite siding.	575967.598	153574.657	This feature is within a known historical farm GIS boundary.	This feature consists of pre-Hanford debris and is classified as Stewardship.	S
SG4DH-228	206-L (55-gal) drum with the top flush to ground level filled with soil. Next to the drum are broken pieces of Transite siding.	575985.536	153590.812	This feature is within a known historical farm GIS boundary.	This feature is classified as Stewardship.	S
SG4DH-229	4-m area within a known military compound of broken Transite siding and wood debris.	576017.484	153592.121	This feature is within a known historical farm GIS boundary.	This feature has been classified to be removed and disposed.	MR

Table 7-5. Segment 4 (100-D/H Features). (18 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4DH-230	20-m area of ash with no remnants visible.	576053.496	153734.583	This feature is within 100 m of a known historical farm GIS boundary.	This feature is classified as Stewardship.	S
SG4DH-231	12-m area with four concrete transmission tower footings.	576850.096	151546.935		Spatial analysis using WCH GIS data indicates this feature is associated with a 230 KV feeder line per west-71484, sht 1, Rev. 7. This feature has been classified as Stewardship.	S

[a] MR = Miscellaneous Restoration OS = Orphan Site
NFE = No Further Evaluation S = Stewardship

GIS = Geographical Information System
GPS = global positioning system
OSE = Orphan Sites Evaluation
WCH = Washington Closure Hanford
WIDS = Waste Information Data System

Table 7-6. Segment 4 (100-F). (5 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4-001	This site is a 2-m-diameter area with no vegetation and debris from a dry cell battery.	579333.49	147752.90	Identified in field walkdown.	This feature has been classified to be cleaned up as Miscellaneous Restoration.	MR
SG4-002	This site consists of a guy anchor and cable.	579607.48	147052.41	Identified in field walkdown.	This feature consists of a guy wire anchor and cable and has been classified as Stewardship.	S
SG4-003	This site consists of a clay irrigation line.	579385.38	146927.32	Identified in field walkdown.	This feature is debris from a pre-Hanford farmstead irrigation system visible in 1943 imagery has been classified as Stewardship.	S
SG4-004	This site consists of irrigation debris.	579439.49	146903.96	Identified in field walkdown.	This feature is debris from a pre-Hanford farmstead irrigation system visible in 1943 imagery has been classified as Stewardship.	S
SG4-006	This site consists of asphalt in a pile approximately 4 m in diameter and scattered within a 20-m-diameter area.	579590.92	146724.43	Identified in field walkdown.	This area of asphalt has been classified as Stewardship.	S
SG4-008	This site is a 4-m-diameter area with stained, crusted soil and no vegetation.	579790.07	146715.53	Identified in field walkdown.	This feature has been classified as an Orphan Site.	OS
SG4-009	This location is a 2-m-diameter area of stained, crusted soil, no vegetation, and scattered empty oil cans.	579789.44	146706.44	Identified in field walkdown.	This feature has been classified as an Orphan Site.	OS
SG4-011	This site is an irrigation weir box and concrete debris in an 8-m-diameter area.	580074.64	146501.71	Identified in field walkdown.	This area of pre-Hanford irrigation debris has been classified as Stewardship.	S
SG4-012	This site is an asphalt pile with gravel in a 2-m-diameter area.	580158.18	146753.91	Identified in field walkdown.	This area of asphalt has been classified as Stewardship.	S
SG4-013	This site is a 30.5-cm-diameter 5-m-long iron pipe protruding from the ground. The pipe has rivets possible pre-Hanford.	581860.45	146766.25	Identified in field walkdown.	This pre-Hanford pipe has been classified as Stewardship.	S
SG4-014	This site consists of an empty 206-L (55-gal) drum, no staining visible.	581766.15	147166.24	Identified in field walkdown.	This drum has been classified to be cleaned up as Miscellaneous Restoration.	MR
SG4-015	This site is a 9-m wooden beam with lag bolts.	581694.50	147453.01	Identified in field walkdown.	This feature has been classified as Stewardship.	S
SG4-016	This site is a 4-m-long antenna lying on the ground.	581963.47	147012.61	Identified in field walkdown.	This feature has been classified as Stewardship.	S

Table 7-6. Segment 4 (100-F). (5 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4-072	West end of visible linear and associated terrain feature identified in LiDAR 3D base earth analysis data.	579290.39	146899.18		This feature is a section of road visible in WCH GIS data and has been classified as Stewardship.	S
SG4-072	East end of visible linear and associated terrain feature identified in LiDAR 3D base earth analysis data.	579601.54	146903.15		This feature is a section of road visible in WCH GIS data and has been classified as Stewardship.	S
SG4-073	South end of visible linear and associated terrain feature identified in LiDAR 3D base earth analysis data.	579377.55	146881.39		This feature is a section of road visible in WCH GIS data and has been classified as Stewardship.	S
SG4-073	North end of visible linear and associated terrain feature identified in LiDAR 3D base earth analysis data.	579368.23	147705.61		This feature is a section of road visible in WCH GIS data and has been classified as Stewardship.	S
SG4-074	West end of visible linear and associated terrain feature identified in LiDAR 3D base earth analysis data.	579216.49	147705.65		This feature is a section of road visible in WCH GIS data and has been classified as Stewardship.	S
SG4-074	East end of visible linear and associated terrain feature identified in LiDAR 3D base earth analysis data.	579576.32	147709.62		This feature is a section of road visible in WCH GIS data and has been classified as Stewardship.	S
SG4-075	West end of a visible linear and associated terrain feature identified in LiDAR 3D base earth analysis data.	579213.63	147161.02		A spatial analysis using WCH GIS data revealed no Hanford-related utilities associated with this linear; therefore, no suspected source of contamination has been identified. It has been classified as Stewardship.	S
SG4-075	East end of a visible linear and associated terrain feature identified in LiDAR 3D base earth analysis data.	579541.45	147282.47		A spatial analysis using WCH GIS data revealed no Hanford-related utilities associated with this linear; therefore, no suspected source of contamination has been identified. It has been classified as Stewardship.	S

Table 7-6. Segment 4 (100-F). (5 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4-076	West end of a visible linear and associated terrain feature identified in LiDAR 3D base earth analysis data.	579213.75	147143.73		A spatial analysis using WCH GIS data revealed no Hanford-related utilities associated with this linear; therefore, no suspected source of contamination has been identified. It has been classified as Stewardship.	S
SG4-076	East end of a visible linear and associated terrain feature identified in LiDAR 3D base earth analysis data.	579602.52	147287.46		A spatial analysis using WCH GIS data revealed no Hanford-related utilities associated with this linear; therefore, no suspected source of contamination has been identified. It has been classified as Stewardship.	S
SG4-077	South end of a visible linear and associated terrain feature identified in LiDAR 3D base earth analysis data.	579513.35	146826.19		A spatial analysis using WCH GIS data revealed no Hanford-related utilities associated with this linear; therefore, no suspected source of contamination has been identified. It has been classified as Stewardship.	S
SG4-077	North end of a visible linear and associated terrain feature identified in LiDAR 3D base earth analysis data.	579605.42	146919.86		A spatial analysis using WCH GIS data revealed no Hanford-related utilities associated with this linear; therefore, no suspected source of contamination has been identified. It has been classified as Stewardship.	S
SG4-078	West end of visible linear and associated terrain feature identified in LiDAR 3D base earth analysis data.	579597.46	146711.57		This pre-Hanford irrigation lateral is visible in WCH GIS data. It has been classified as Stewardship.	S
SG4-078	East end of visible linear and associated terrain feature identified in LiDAR 3D base earth analysis data.	579788.14	146715.54		This pre-Hanford irrigation lateral is visible in WCH GIS data. It has been classified as Stewardship.	S
SG4-079	North end of visible linear and associated terrain feature identified in LiDAR 3D base earth analysis data.	581221.74	146744.23		Spatial analysis using WCH GIS data revealed no Hanford-related utilities associated with this linear; therefore, no suspected source of contamination has been identified. It has been classified as Stewardship.	S

Table 7-6. Segment 4 (100-F). (5 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4-089	North end of visible linear and associated terrain feature identified in LiDAR 3D base earth analysis data.	580201.88	146748.30		This feature is a section of road visible in WCH GIS data (1943 imagery) and has been classified as Stewardship.	S
SG4-089	South end of visible linear and associated terrain feature identified in LiDAR 3D base earth analysis data.	580195.29	146543.17		This feature is a section of road visible in WCH GIS data (1943 imagery) and has been classified as Stewardship.	S
SG4-090	South end of a visible linear and associated terrain feature identified in LiDAR 3D base earth analysis data.	580653.89	146217.63		A spatial analysis using WCH GIS data revealed no Hanford-related utilities associated with this linear; therefore, no suspected source of contamination has been identified. It has been classified as Stewardship.	S
SG4-092	North end of visible linear and associated terrain feature identified in LiDAR 3D base earth analysis data.	579790.60	146713.35		This pre-Hanford irrigation lateral is visible in WCH GIS data has been classified as Stewardship.	S
SG4-092	South end of visible linear and associated terrain feature identified in LiDAR 3D base earth analysis data.	579799.56	146496.61		This pre-Hanford irrigation lateral is visible in WCH GIS data has been classified as Stewardship.	S
SG4-093	North end of visible linear and associated terrain feature identified in LiDAR 3D base earth analysis data.	579890.12	146760.12		This pre-Hanford irrigation lateral is visible in WCH GIS data has been classified as Stewardship.	S
SG4-093	South end of visible linear and associated terrain feature identified in LiDAR 3D base earth analysis data.	579897.00	146557.45		This pre-Hanford irrigation lateral is visible in WCH GIS data has been classified as Stewardship.	S
SG4-094	North end of visible linear and associated terrain feature identified in LiDAR 3D base earth analysis data.	579993.51	146751.75		This pre-Hanford irrigation lateral is visible in WCH GIS data has been classified as Stewardship.	S
SG4-094	South end of visible linear and associated terrain feature identified in LiDAR 3D base earth analysis data.	579995.10	146617.41		This pre-Hanford irrigation lateral is visible in WCH GIS data has been classified as Stewardship.	S
SG4-095	North end of linear.	581775.42	145671.29		This feature is an old road visible in WCH GIS data (1948 imagery) and has been classified as Stewardship.	S

Table 7-6. Segment 4 (100-F). (5 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4-096	North end of a visible linear and associated terrain feature identified in LiDAR 3D base earth analysis data.	580627.20	146538.60		A spatial analysis using WCH GIS data revealed no Hanford-related utilities associated with this linear; therefore, no suspected source of contamination has been identified. It has been classified as Stewardship.	S
SG4-108	This feature is a wooden utility pole cross arm with insulators lying on the ground.	579617.36	147386.19		This feature has been classified as Stewardship.	S
SG4-576	This feature consists of the east end of a 0.5-m reinforced concrete pipe per railroad drawing H-6-173, sht 26, Rev. 2, that channels rainwater.	579451.05	146784.67	This feature actually has two segments, one going under the road and another under the railroad bed. Photographs 3695_east and 3696_west are for the under road segment. This is historical feature SG4DH_005.	This feature has been classified as Stewardship.	S

[a] MR = Miscellaneous Restoration OS = Orphan Site
NFE = No Further Evaluation S = Stewardship

GIS = Geographical Information System
GPS = global positioning system
LiDAR = Light Detection and Ranging
OSE = Orphan Sites Evaluation
WCH = Washington Closure Hanford

Table 7-7. Segment 4 (SG4K Features).

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4K-001	1- x 3-m sheet of aluminum.	569845.05	145913.97		This feature has been classified to be removed and disposed.	MR
SG4K-002	Approximate 50-m area of railroad components.	569670.59	146388.22		This feature has been classified to be removed and disposed.	MR
SG4K-003	3-m-diameter round object seen in aerial photography.	570125.17	146707.71		3-m-diameter boulder. This feature is classified as No Further Evaluation. Field verified on 11/11/2010.	NFE
SG4K-004	9-m-diameter depression, no debris or staining visible.	570386.29	146935.83		This feature is classified as Stewardship.	S

[a] MR = Miscellaneous Restoration OS = Orphan Site
NFE = No Further Evaluation S = Stewardship

GPS = global positioning system
OSE = Orphan Sites Evaluation

Table 7-8. Segment 4 (SG4N Features). (2 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4N-001	7-m disturbed area associated with WIDS 600-235. The LSCC is visible in the depression.	572145.69	145828.08		This feature is classified as Stewardship.	S
SG4N-002	5- x 10-m depression and mound. No debris or staining visible at this feature.	572086.20	145887.27		This feature is classified as Stewardship.	S
SG4N-003	6-m disturbed area associated with WIDS 600-235. The LSCC is visible in the depression.	572143.95	145875.49		This feature is classified as Stewardship.	S
SG4N-004	3- x 11-m concrete cleanout.	572334.32	145890.65		This feature is classified as Stewardship.	S
SG4N-005	4-m-long piece of aluminum siding.	572349.78	145974.46		This feature is classified as Stewardship.	S
SG4N-006	9- x 45-m concrete cleanout area.	572364.98	146112.06		This feature is classified as Stewardship.	S
SG4N-007	2-m area of debris visible in aerial photography.	572190.23	146772.92		Nothing visible at this site when field verified. This feature needs no further evaluation. Field verified on 11/11/2010.	NFE
SG4N-008	7-m disturbed area associated with WIDS 600-235 and some scattered debris.	572084.71	147215.64		This feature is classified as Stewardship.	S
SG4N-009	Appears to be a 19-L (5-gal) bucket in aerial photography.	572185.89	147225.95		The object was gone at the time when it was field verified. This feature needs no further evaluation. Field verified on 11/11/2010.	NFE
SG4N-010	Terrain feature visible in aerial photography.	571917.01	147474.57		This feature was found to be a large boulder. This feature needs no further evaluation. Field verified on 11/11/2010.	NFE
SG4N-011	This feature is a junction box and an adjacent wood structure. No stickers visible on the junction box.	572073.75	147524.31	This junction box is 600 m from the nearest accessible road.	This feature is classified as Stewardship.	S

Table 7-8. Segment 4 (SG4N Features). (2 Pages)

OSE Identification	Site Description	GPS Easting	GPS Northing	Notes	Disposition	Final Classification [a] (MR, NFE, OS, or S)
SG4N-012	Three trenches in a 13- x 13-m area with no debris or staining visible.	572613.22	147621.60		This feature is classified as Stewardship.	S

[a] MR = Miscellaneous Restoration OS = Orphan Site
NFE = No Further Evaluation S = Stewardship

GPS = global positioning system
LSCC = lead-sheathed communication cable
OSE = Orphan Sites Evaluation
WIDS = Waste Information Data System

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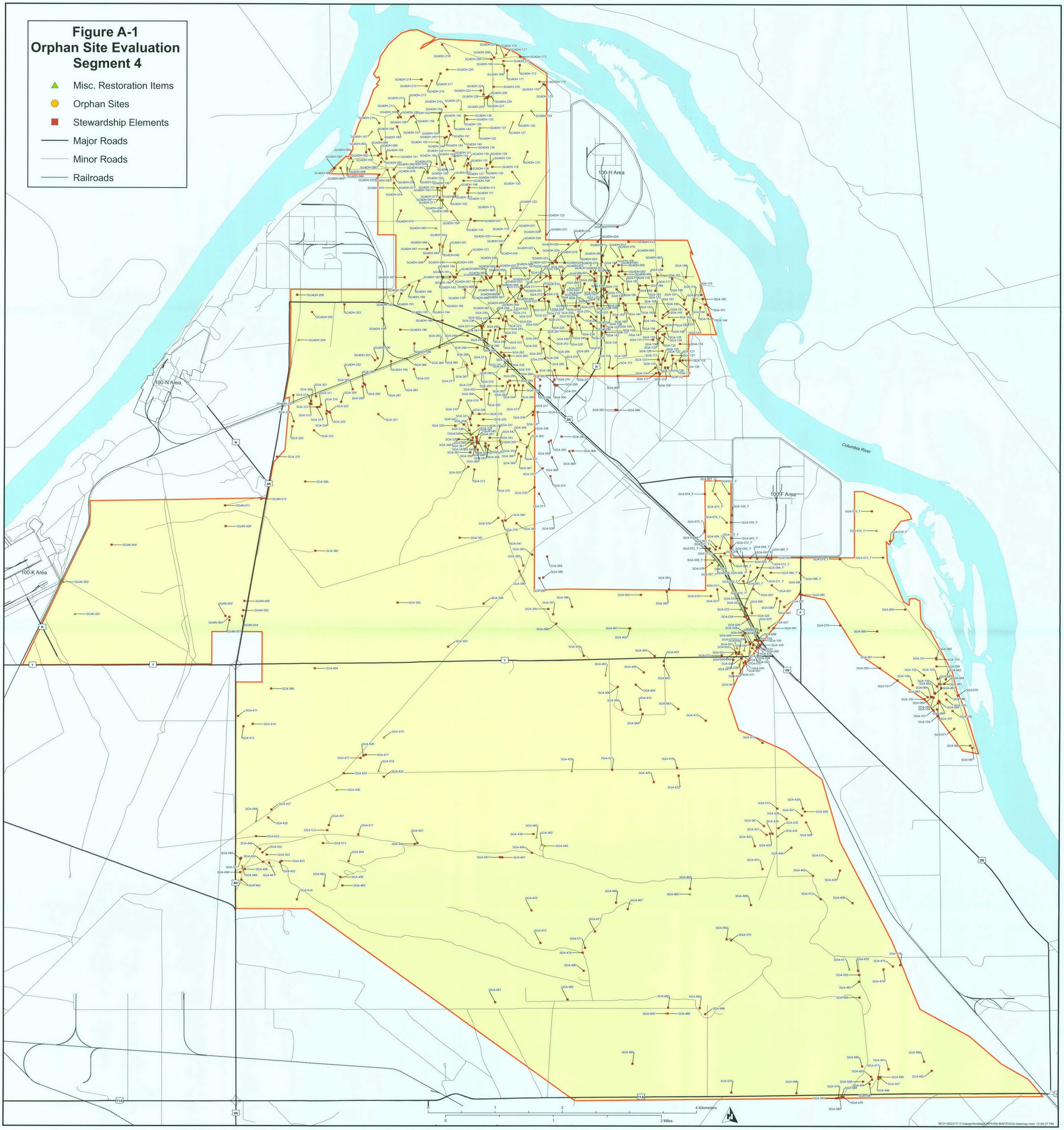
APPENDIX A

MAP

Figure A-1. Segment 4 Orphan Sites Evaluation Map.

Figure A-1
Orphan Site Evaluation
Segment 4

- Misc. Restoration Items
- Orphan Sites
- Stewardship Elements
- Major Roads
- Minor Roads
- Railroads



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