

Appendix D
Environmental Scan



SH-44, I-84 TO STAR ROAD

PROJECT NUMBER A023(630), KEY NUMBER 23630

Planning and Environmental Linkages (PEL) Study Environmental Scan

February 6, 2025

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Executive Summary

The Idaho Transportation Department is currently in the process of a Planning and Environmental Linkages (PEL) study for State Highway 44 (SH-44), Interstate 84 (I-84) to Star Road. The PEL Study will be conducted in accordance with the Statewide and Metropolitan Planning Regulation 23 CFR 450, the provisions linking planning and National Environmental Policy Act (NEPA) presented in Section 450.318 and Appendix A of 23 CFR 450. The SH-44, I-84 to Star Road PEL is being conducted to identify problem areas and evaluate the transportation improvements.

This environmental scan report is a component of the PEL study which identifies existing environmental conditions in the study area. The study area consists of SH-44 from I-84 to Star Road, approximately 10 miles in total, through the cities of Middleton and Star. In addition, the study area extends approximately 50 feet from the right-of-way along the existing SH-44 alignment and a 500-foot buffer along new alignments being considered.

This environmental scan included a windshield survey of the project corridor, as well as review of existing data sources from local, State, and Federal regulatory agencies. The environmental scan included a review of the natural and built environment along the project corridor. It revealed the following information:

- Land cover was evaluated within the project corridor. The area has been developed for either agriculture or human habitation.
- Twenty-five (25) soil complexes were identified as being prime farmlands within the study area.
- Ada and Canyon Counties are in attainment with all National Ambient Air Quality Standards criteria pollutants established by the Clean Air Act.
- Most surface waters identified along the study area are irrigation-related with some natural drainages. The following named streams were identified: West Hartley Gulch, East Hartley Gulch, Willow Creek, and Mill Slough. Of these drainages, East Harley Gulch, Willow Creek, and Mill Slough are listed as water quality impaired by the Idaho Department of Environmental Quality.
- Irrigation-related drainages include the Canyon Hill Canal, Middleton Drainage Ditch, Lawrence Kennedy Canal, Watkins Ditch, Canyon Canal, South Middleton Drain, Front Ditch, Grade Ditch, and numerous additional unnamed ditches and /or laterals.
- Mapped floodplains were identified along the Boise River, West Harley Gulch, East Hartley Gulch, Willow Creek, and Mill Slough. In addition, mapped floodways were identified along Willow Creek and Mill Slough.
- Twenty-seven (27) wetland polygons were identified within the study area which included 20 riverine, four freshwater emergent wetlands, and three freshwater ponds.
- There are no designated Sole Source Aquifers located in the vicinity of the project corridor.
- Thirteen (13) underground storage records were identified, of which seven are still in use and seven have had one or more leaking underground storage tanks (LUST) events. All LUST event locations have been designated as “cleanup complete”. Six sites are listed hazardous waste generators, seven sites are listed as general remediation, one site is listed as municipal solid waste landfill, and one is listed as other (gravel pit).

- One species (Slickspot peppergrass) is listed as threatened and two species (Monarch butterfly [proposed threatened] and Suckley's cuckoo bumble bee [proposed endangered]) are listed as proposed under the Endangered Species Act.
- Forty-five (45) species of greatest conservation need were identified by Idaho Fish and Game Conservation Planner.
- Review of existing data sources indicates potential minority and/or low-income populations occurring along the project.
- Thirty-one (31) eligible or unevaluated resources were identified through the State Historic Preservation Office database. Of the 31 resources, six are no longer present, three haven't been evaluated, and 22 are eligible for the National Register of Historic Places.
- Thirty-two (32) potential Section 4(f) resources were identified, of which 22 are historic sites, five are public parks, and four are recreation sites. Section 4(f) resources will be identified as potential until a Section 4(f) evaluation is completed.
- A search of Section 6(f) grants funded along the project corridor identified three projects in the City of Middleton funded through the Land and Water Conservation Fund program. Piccadilly Park received funds to develop a splash pad within the park. The Middleton Roadside Park and Middle Place Park both received funds for the acquisition and development of the parks.
- Land use along the study area is a mix of residential, agricultural, mixed use, commercial, and light industrial.
- Numerous sensitive traffic noise receptors are located along the project which includes residential areas, schools, churches, day care centers, medical facilities, parks, offices, and restaurants.
- No public aviation facility was identified within 20,000 feet of the study area.

The environmental scan identified existing conditions within the SH-44 PEL study area for the built and natural environment. This document is not to serve as the environmental document for any proposed future work; rather it should be used as a guide to identify potential resources of concern within the area. Project specific environmental review in accordance with the NEPA is needed, as well as resource specific agency approvals and permitting.

Introduction

The Idaho Transportation Department is currently in the process of a Planning and Environmental Linkages (PEL) study for State Highway 44 (SH-44), Interstate 84 (I-84) to Star Road (**Appendix A, Figure 1-1**). The PEL Study is being conducted in accordance with the Statewide and Metropolitan Planning Regulation 23 CFR 450, the provisions linking planning and National Environmental Policy Act (NEPA) presented in Section 450.318 and Appendix A of 23 CFR 450. The SH-44, I-84 to Star Road PEL is being conducted to identify problem areas and evaluate the transportation improvements that will improve travel safety and operations for all transportation modes in the corridor.

This environmental scan report is a component of the PEL study which identifies existing environmental conditions in the study area. The study area consists of SH-44 from east of I-84 to Star Road, approximately 10 miles in total, through the cities of Middleton and Star. The PEL doesn't include SH-44 Interchange, which is being constructed under a separate project.

Study Area

The study area, shown in **Appendix A, Figure 2-1**, consists of SH-44 from I-84 to Star Road, approximately 10 miles in total, through the cities of Middleton and Star. In addition, the study area extends approximately 50 feet from the right-of-way (ROW) along the existing SH-44 alignment and a 500-foot buffer along new alignments is being considered.

Methodology and Data Sources

Windshield surveys of the study area were conducted in May 2024. Preparation of this document consisted of a combination of field verification of resources, based on a windshield survey, as well as the review and incorporation of existing available data from local, State and Federal regulatory agencies. **Table 1** below provides resource specific methodology.

Table 1: Resource Methodology for the SH-44, I-84 to Star Road Project

RESOURCE	METHODOLOGY
Land Cover	The U.S. Department of Agriculture (USDA) 2023 Idaho Cropland data layer was utilized with Geographic Information Systems (GIS) capabilities.
Soil Resources and Prime Farmlands	The Natural Resources Conservation Service (NRCS) website was reviewed to determine soil classifications within the project.
Air Quality	ITD's Air Quality Policy was referenced. In addition, Idaho Department of Environmental Quality (DEQ) Administrative Boundaries for Sensitive Air Quality map was reviewed.
Surface Waters	Surface waters were mapped and water quality impaired waterbodies research and identified. GIS data from the U.S. Geological Survey National Hydrology Dataset was used in mapping and identification.
Floodplains	Federal Emergency Management Agency (FEMA) floodplain GIS data layer was used in mapping and online maps were reviewed.
Wetlands	U.S. Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI) maps were reviewed.

RESOURCE	METHODOLOGY
Groundwater	Reviewed the Environmental Protection Agency (EPA) Sole Source Aquifers (SSA) map for Idaho.
Hazardous Materials	Regulatory mapping programs were reviewed for properties adjacent to the project corridor using DEQ's Terradex mapper and EPA's Environfacts mapper.
Threatened and Endangered Species	USFWS threatened and endangered species lists were obtained and reviewed.
State Sensitive Species	Idaho Fish and Game (IDFG) Conservation Planner was reviewed for Tier 1 Idaho sensitive species within the vicinity of the study area.
Demographic Information	Readily available census data was obtained for the study area.
Cultural Resources	The State Historic Preservation Office (SHPO) Idaho Cultural Resource Information System (ICRIS) database was reviewed for historic resources along the study area. A windshield survey was conducted to verify the presence and absences of those resources. No research was conducted at SHPO.
Section 4(f) Resources	Parks and schools were identified by windshield survey. Zoning maps, aerial photography, and topographic maps were reviewed.
Section 6(f) Resources	The State Land and Water Conservation Fund (LWCF) database was reviewed. Listed sites were mapped in GIS.
Land Use and Zoning	Obtained and reviewed current zoning and comprehensive plans and associated maps for the City of Middleton and Star and Canyon and Ada Counties.
Noise	A windshield survey was conducted to determine sensitive receptors along the study area. ITD's Noise Policy was referenced.
Federal Aviation Administration (FAA) Airspace Intrusion	The National Transportation Atlas Database was utilized with GIS capabilities to identify FAA facilities.

Physical Environment

Land Cover

The USDA 2023 Idaho Cropland GIS data layer was used to identify the land cover types in the study area. The study area is 607 acres in total size. **Table 2** shows the land cover types along within the study area. The highest land cover/cropland type includes grassland/pasture, shrubland, developed/open space, and alfalfa.

Table 2: Land Cover for the SH-44, I-84 to Star Road Project

LAND COVER/ CROPLAND TYPE	ACRES	PERCENT OF CORRIDOR	LAND COVER/ CROPLAND TYPE	ACRES	PERCENT OF CORRIDOR
Alfalfa	78	13%	Sweet Corn	1	0%
Sugar beets	8	1%	Spring Wheat	1	0%
Corn	8	1%	Triticale	1	0%
Winter Wheat	6	1%	Hops	1	0%
Mint	4	1%	Grassland/Pasture	172	28%
Onions	3	0%	Shrubland	11	23%
Peas	3	0%	Developed/Open Space	142	17%
Other Hay/Non Alfalfa	2	0%	Developed/Low Intensity	105	8%
Dry Beans	2	0%	Developed/Med Intensity	50	2%
Fallow/Idle Cropland	2	0%	Developed/High Intensity	6	1%
Carrots	1	0%			
TOTAL LAND COVER				607	100%

Source: USDA 2023 Idaho Cropland Data

Soil Resources and Prime Farmlands

The Farmlands Protection Policy Act (FPPA) of 1981 intended to minimize the impact Federal programs have on the unnecessary and irreversible conversion of farmland to nonagricultural uses. It assures that to the extent possible federal programs are administered to be compatible with state, local units of government, and private programs and policies to protect farmland. For the purpose of FPPA, farmland includes prime farmland, unique farmland, and land of statewide or local importance. Farmland subject to FPPA requirements do not have to be currently used for cropland. These lands can be forest land, pastureland, cropland, or other land, but not water or urban and built-up land (developed areas).

Review of the Canyon and Ada County soil surveys identified the following soil complexes as being prime farmlands within the study area:

- Ballentine-Eagle complex, 0 to 1% slopes
- Cleman-Beverly complex, 0 to 2% slopes
- Baldock loam, 0 to 1% slopes
- Chance fine sandy loam
- Draper loam, 0 to 1% slopes
- Draper loam, 1 to 3% slopes
- Elijah-Chilcott silt loams, 1 to 3% slopes
- Elijah-Vickery silt loams, 3 to 7% slopes
- Falk fine sandy loam, 0 to 2% slopes
- Jenness loam, 0 to 1% slopes
- Jenness loam, 1 to 3% slopes
- Lankbush-Elijah-Vickery silt loams, 3 to 7% slopes

- Lankbush loam, dark variant, 0 to 1% slopes
- Marsing loam, 7 to 12% slopes
- Moulton fine sandy loam, 0 to 1% slopes
- Moulton fine sandy loam, 1 to 3% slopes
- Moulton fine sandy loam, saline, 0 to 1% slopes
- Moulton loam, 0 to 1% slopes
- Notus soils
- Oliaga loam, 0 to 1% slopes
- Oliaga loam, saline-alkali, 0 to 1% slopes
- Power silt loam, 0 to 1% slopes
- Power silt loam, 1 to 3% slopes
- Power silt loam, 3 to 7% slopes
- Terrace escarpments

Appendix A, Figures 3-1 through 3-4 display the location of prime farmlands within the study area.

It should be noted according to the FPPA requirements, areas within urban and built-up lands, such as the City of Middleton and Star, are not subject to the FPPA requirements. In addition, certain project actions are subject to FPPA exemptions:

- Construction within existing ROW purchased before August 6, 1984.
- All resurfacing and normal road repairs.
- ROW taken from existing residents and/or businesses.
- Borrow areas and disposal sites not arranged for under the direction of ITD.
- Land committed to water storage.

If the project is not deemed exempt, consultation with the NRCS should be conducted to evaluate the potential for prime farmland impacts.

Air Quality

The study area is within Ada and Canyon counties, the two most urbanized counties in the state, as a part of the Greater Boise area. Both Ada and Canyon Counties are in attainment with all National Ambient Air Quality Standards (NAAQS) criteria for pollutants established by the Clean Air Act (CAA).

Hydrology

Surface Waters

Topographic maps, aerial photographs, and DEQ stream layer geographic data were reviewed for the location of natural streams and rivers, as well as irrigation related canals, ditches and laterals along the study area.

The surface waters identified within the study area are part of the Lower Boise Subbasin. The Lower Boise Subbasin, hydrologic unit code 17050114, is located in southwest Idaho. The watershed drains 1,290 square miles of rangeland, forests, agricultural lands, and urban areas. The lower Boise River is a

64-mile stretch that flows through Ada and Canyon Counties and the cities of Boise and Caldwell, Idaho. The watershed also drains portions of Elmore, Gem, Payette, and Boise Counties. The river flows in a northwesterly direction from its origin at Lucky Peak Dam to its confluence with the Snake River near Parma, Idaho. Major tributaries include Indian Creek, Fivemile Creek, and Tenmile Creek (IDEQ 1999).

Most surface waters identified along the project are irrigation-related with some natural drainages. The following named streams were identified along and/or crossing the project: West Hartley Gulch, East Harley Gulch, Willow Creek and Mill Slough. Irrigation related drainages identified include the Canyon Hill Canal, Middleton Drainage Ditch, Lawrence Kennedy Canal, Watkins Ditch, Canyon Canal, South Middleton Drain, Front Ditch, Grade Ditch and numerous additional unnamed ditches and/or laterals. These drainages are illustrated in **Appendix A, Figures 4-1 through 4-4**.

Of these drainages, the following are listed by DEQ as being water quality impaired: East Hartley Gulch, Willow Creek, and Mill Slough.

Review of Idaho Department of Water Resources (IDWR) GIS data for irrigation companies in Idaho revealed the following companies along the corridor: Black Canyon Irrigation District, Middleton Irrigation Association Inc; Middleton Mill Ditch Company, Canyon County Water Company, Pioneer Ditch Company. Irrigation related drainages identified include the Canyon Hill Canal, Middleton Drainage Ditch, Lawrence Kennedy Canal, Watkins Ditch, Canyon Canal, South Middleton Drain, Front Ditch, Grade Ditch and numerous additional unnamed ditches and/or laterals. Additional irrigation related canals, ditches, and laterals are likely present along the corridor which would require further research with the above-mentioned irrigation districts.

Numerous surface waters have been identified in the project corridor; therefore, any future project that may impact these drainages would need to be coordinated with the U. S. Army Corps of Engineers (USACE) and other agencies, as applicable, to determine hydrological connectivity to waters of the U.S. In addition, a joint application for impacts would be required and potential mitigation for any unavoidable impacts. Further, several drainages have been identified as water quality impaired by DEQ; therefore, as part of the joint application process, DEQ would review the permit to ensure the project does not cause exceedance of the total maximum daily load developed for the waterbody.

Floodplains

A 100-year floodplain is defined as the area that would be covered by a flood during a 100-year storm event (a flood event that has a one percent probability of occurring in any year). A floodway is defined as the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that a 100-year storm can be carried without cumulatively increasing the floodwater surface elevation by more than one-foot.

The study area crosses the 100-year floodplain of the Boise River, West Hartley Gulch and East Hartley Gulch and the floodplain and floodway of Willow Creek and Mill Slough. **Appendix A, Figures 5-1 through 5-4** display the locations of the floodplain and floodways identified.

Per Executive Order 11988, Floodplain Management, project concepts will need to avoid to the extent possible, long and short-term adverse impacts associated with the modification and/or development of the floodplain whenever a practicable alternative exists. In addition, a Floodplain Development Permit

would be required from the local jurisdiction for any work in the 100-year floodplain and a No Rise Certificate would be required for work in a floodway.

Wetlands

USFWS NWI mapping data was reviewed for the project corridor. NWI maps revealed 20 riverine, four freshwater emergent wetlands, and three freshwater ponds within the study area. All of these polygons, except portions of three freshwater wetlands and five riverine polygons, were field verified as being present during a windshield survey of the project corridor. Many of the polygons identified were associated with existing drainages and irrigation canals and ditches. In addition to the USFWS NWI, a windshield survey did identify numerous additional riverine and wetland areas not identified through existing data sources. **Appendix A, Figures 6-1 through 6-4** display the locations of the waters and wetlands identified.

An aquatic resource delineation survey and report will need to be conducted for the project, as well as associated permitting and mitigation with the USACE.

Groundwater/Sole Source Aquifer

A SSA is defined as an aquifer that supplies 50 percent of the drinking water for the area overlying the aquifer and no other source of water is available. Projects for federal assistance within the project review area of a designated SSA which have potential to contaminate the aquifer are subject to EPA review and approval. There are no designated SSAs located within the project corridor.

Hazardous Materials

Hazardous materials are defined as any material that poses harmful risks to human health and/or the environment. It includes any hazardous or toxic substance, waste, pollutant, or chemical regulated under the Clean Air Act, Clean Water Act, Toxic Substance Control Act, and/or the Resource Conservation and Recovery Act (RCRA). Hazardous material sites are managed through the Idaho DEQ Waste Management and Remediation Program, as well as the EPA's Envirofacts Program.

Throughout the study area there are businesses/operations that raise the risk of encountering hazardous materials. Examples include residential underground storage tanks, gas stations, wrecking yards, dry cleaners, auto body shops and auto repair, guard railing, bridges, and dump sites. Leaking Underground Storage Tanks (LUSTs) and soil staining, lead and asbestos are the most typical concerns.

Even if ROW is not required, plumes of soil contamination can drift into/across ITD ROW. Projects that require excavation have a higher potential of encountering hazardous materials during construction. If parcels are identified with a potential for hazardous materials, assessments that determine the extent of the contamination are required. Remediation is required when contamination level exceeds state or federal standards.

Table 3 lists Underground Storage Tanks (USTs) and LUSTs within the study area and **Appendix A, Figures 7-1 through 7-4** displays the location of each. There are 13 UST locations of which seven are still in use and seven have had one or more LUST events. All LUST event locations have been designated as "cleanup complete".

Table 3: UST and LUST Sites Identified for the SH-44, I-84 to Star Road Project

MAP #	FACILITY ID	FACILITY NAME	LOCATION	STATUS	LUST ID	CLEANUP COMPLETION DATE
1	3-140074	ITD Caldwell Maintenance Yard	15430 Highway 44 Caldwell, Idaho	Open	524	05/12/1995
2	3-140027	Canyon Highway District No 4	15435 Highway 44 Caldwell, Idaho	Closed	--	--
3	3-140668	44 Quick Stop	15060 Highway 44 Caldwell, Idaho	Open	--	--
8	3-140203	Wallace Bros Sand & Gravel	14533 River Road Caldwell, Idaho	Closed	579	01/15/1994
9	3-140663	Branding Iron	13891 Highway 44 Middleton, Idaho	Closed	1175	12/01/1991
10	3-140049	Middleton Bus Shop	214 Main Street Middleton, Idaho	Closed	185	01/05/2005
11	3-140666	Jacksons Food Store No 22	7 East Main Street Middleton, Idaho	Open	--	--
12	3-140008	Laeger Auto Repair	117 East Main Street Middleton, Idaho	Closed	959	08/01/2023
14	3-140136	A H Schade Inc Gem Stop Co Middleton	802 Star Road Middleton, Idaho	Open	198	12/08/2022
17	3-010956	Jacksons Food Stores No 240	61 North Star Road Star, Idaho	Open	--	--
18	3-010878	Maverick Country Store No 465	Southwest Corner Highway 44 & South Star Road Star, Idaho	Open	--	--
20	3-010148	Star Mercantile Inc	10942 West State Street Star, Idaho	Open	321	09/29/1992
22	3-010670	Star Joint Fire Protection District	10831 West State Street Star ID	Closed	--	--

Within the highway corridor, there are six sites listed as hazardous waste generators under RCRA, seven sites listed as general remediation (GR), one site listed as municipal solid waste landfill (MSWL), and one site listed as other. These sites are listed in **Table 4** and displayed in **Appendix A, Figures 7-1 through 7-4**.

Table 4: RCRA, GR, MSWL and Other Sites Identified for the SH-44, I-84 to Star Road Project

MAP #	FACILITY ID	FACILITY NAME	LOCATION	TYPE
1	IDR000000109	ITD Caldwell Maintenance Yard	15430 Highway 44 Caldwell, Idaho	MULTI: RCRA
2	3-GR-0289	Canyon Highway District No 4	15435 Highway 44 Caldwell, Idaho	MULTI: GR
4	--	Wallace Gravel Pit	T4N R3W S9 NW1/4 SE1/4 (Green Road Off Highway 20)	OTHER
5	3-GR-0329	Laz Transportation	I-84 MP 25 East Bound Caldwell, Idaho	GR

MAP #	FACILITY ID	FACILITY NAME	LOCATION	TYPE
		LLC		
6	3-GR-0470	Motor West	HWY 20 (15101 Green Road)	MULTI: GR
7	3-GR-0531	Gas Express INC	I-84, WB, MP 26 Caldwell, Idaho	GR
11	IDR000205914	Jacksons Food Store No 22	7 East Main Street Middleton, Idaho	MULTI: RCRA
11	3-GR-0165	Jacksons Food Store No 22	7 East Main Street Middleton, Idaho	MULTI: GR
12	IDSTATE00138	Laeger Auto Repair	117 East Main Street Middleton, Idaho	MULTI: RCRA
13	SW314012	Zamco Technologies	21991 Middleton Road Caldwell, Idaho	MULTI: MSWL
14	IDR000002154	Ah Schade Inc Gem Stop Co Middleton	802 Star Road Middleton, Idaho	MULTI: RCRA
15	3-GR-0155	Northwest Pipeline Corp Middleton Requalification Project	23593 Lansing Lane (T4N R2W S4) Middleton, Idaho	GR
16	IDD984673822	Northwest Pipeline Corp Caldwell Meter Station	T4N R2W S10 SW (8300 Highway 44) Middleton, Idaho	RCRA
19	3-GR-0487	Seventh Day Adventist Properties	Southeast Corner State Street & Star Road Star, Idaho	GR
21	IDD063337034	Blake Trailers Inc	10836 West State Street Star, Idaho	RCRA

Biological Resources

Biological Resources include federally listed threatened and endangered species, state sensitive species, and wildlife and fish resources. Data presented on the occurrence or potential occurrence of federally listed species come from the USFWS. Data concerning state sensitive wildlife and plant species was obtained from the Conservation Planner through the IDFG.

Threatened and Endangered Species

An official species list was obtained from the USFWS Information for Planning and Consultation (IPAC) tool for the project on January 27, 2025 (USFWS 2025; Consultation Code 2024-0108630). The IPAC list identified one threatened and two species for proposed listing species protected under the Endangered Species Act that may occur or be affected by the project (**Table 5**). No species protected under the National Oceanic and Atmospheric Administration were listed within the study area.

Table 5. ESA Species Listed for the SH-44, I-84 to Star Road Project

SPECIES NAME	SCIENTIFIC NAME	FEDERAL STATUS
Slickspot peppergrass	<i>Lepidium papilliferum</i>	Threatened
Monarch butterfly	<i>Danaus Plexippus</i>	Proposed Threatened
Suckley's Cuckoo bumble bee	<i>Bombus suckleyi</i>	Proposed Endangered

In addition, the IPAC resource list identified several migratory birds that may nest or forage in the study area. These birds are protected by the Migratory Bird Treaty Act and/or the Bald and Golden Eagle Protection Act. (see **Appendix B**).

State Sensitive Species

Section 06D of the ESA defines State Sensitive Species as those species that could become endangered or extinct within a state. To determine the species of concern with the potential to occur within the highway corridor, a review of IDFG Idaho Conservation Planner for species of greatest conservation need identified the following 45 species within the study area:

- American bittern (*Botaurus lentiginosus*)
- Bobolink (*Dolichonyx oryzivorus*)
- Burrowing owl (*Athene cunicularia*)
- Caspian tern (*Hydroprogne caspia*)
- Cinnamon teal (*Anas cyanoptera*)
- Common loon (*Gavia immer*)
- Eared grebe (*Podiceps nigricollis*)
- Franklin's gull (*Leucophaeus pipixcan*)
- Golden eagle (*Aquila chrysaetos*)
- Gray-crowned rosy-finch (*Leucosticte tephrocotis*)
- Hoary bat (*Lasiurus cinereus*)
- Little brown myotis (*Myotis lucifugus*)
- Long-billed curlew (*Numenius americanus*)
- Mountain whitefish (*Prosopium williamsoni*)
- Northern pintail (*Anas acuta*)
- Sage thrasher (*Oreoscoptes montanus*)
- Sandhill crane (*Artemisiospiza nevadensis*)
- Silver-haired bat (*Lasionycteris noctivagans*)
- Townsend's big-eared bat (*Corynorhinus townsendii*)
- Western bumble bee (*Bombus occidentalis*)
- Western small-footed myotis (*Myotis culiolarum*)
- Woodhouse's toad (*Anaxyrus woodhousii*)
- Yuma myotis (*Myotis yumanensis*)
- Black rosy-finch (*Leucosticte atrata*)
- Brewer's sparrow (*Spizella breweri*)
- California gull (*Larus californicus*)
- Cassin's finch (*Haemorhous cassinii*)
- Common gartersnake (*Thamnophis sirtalis*)
- Common nighthawk (*Chordeiles minor*)
- Ferruginous hawk (*Buteo regalis*)
- Gillette's checkerspot (*Euphydryas gillettii*)
- Grasshopper sparrow (*Ammodramus savannarum*)
- Great gray owl (*Strix nebulosa*)
- Lewis's woodpecker (*Melanerpes lewis*)
- Loggerhead shrike (*Lanius ludovicianus*)
- Morrison's bumble bee (*Bombus morrisoni*)
- Northern leopard frog (*Lithobates pipiens*)
- Ring-billed gull (*Larus delawarensis*)
- Sagebrush sparrow (*Artemisiospiza nevadensis*)
- Short-eared owl (*Asio flammeus*)
- Suckley's cuckoo bumble bee
- Trumpeter swan (*Cygnus buccinator*)
- Western pearlshell (*Maragritifera falcata*)
- Western toad (*Anaxyrus boreas*)
- Yellow bumble bee (*Bombus fervidus*)

No field investigations were made to determine the presence or absence of these species or suitable habitat.

Human Environment

Demographic Information

Data from the U.S. Census and 2017-2021 American Community Survey is listed in **Table 6** below and illustrated by block group in **Appendix A, Figure 8-1**. The data provides information by block group in comparison to state percentages for social characteristics including low-income, elderly, race and ethnicity, and limited English proficiency. Block group percentages that are higher than statewide percentages indicate a potential for a minority and/or low-income population.

Review of demographic data indicates a higher percentage for low-income populations in blockgroups 16027021021, 160270212022, 160270219071, 160270219013, and 160270219012, as well as a higher population of elderly within blockgroups 160270219071, 160010102261, 160010102281, and 160010102282. The data also indicates a higher percentage of race and ethnicity populations in blockgroups 160270212021, 160270212022, 160270219071, 160270219013, and 160270219021, as well as limited English proficiency in block group 160270212022. Windshield survey conducted for the project confirmed these findings.

Table 6: Demographic Information for SH-44, I-84 to Star Road Project

Blockgroup and Total Population	Low-Income Population (State Percentage = 32%)		Elderly Population (State percentage = 17%)		Race and Ethnicity (State Percentage = 19%)		Limited English Proficiency (State Percentage = 2%)	
	Population	Community Percentage	Population	Community Percentage	Population	Community Percentage	Language Spoken	Community Percentage
160270212021 Total: 1,353	880	65	217	16	1,082	82	N/A	0
160270212022 Total: 2,918	1,372	47	467	16	934	32	Spanish	7
160270219072 Total: 1,387	83	6	152	11	111	8	N/A	0
160270219071 Total: 1,574	598	38	299	19	331	21	N/A	0
160270219013 Total: 2,199	814	37	308	14	858	39	Spanish	1
160270219012 Total: 2,853	1,369	48	285	10	941	33	N/A	0
160270219063 Total: 1,473	250	17	206	14	221	15	N/A	0
160010102261 Total: 1,522	320	21	304	20	274	18	N/A	0
160010102281 Total: 1,130	305	27	362	32	79	7	N/A	0
160010102271 Total: 2,010	563	28	322	16	121	6	N/A	0
160010102282 Total: 1,662	199	12	615	37	133	8	N/A	0

Cultural Resources

A record search was conducted with the Idaho SHPO through the ICRIS database in April 2024. The database was reviewed to identify previously evaluated National Register of Historic Places (NRHP) eligible resources, as well as unevaluated resources. Unevaluated resources are resources that have been recorded and identified as historic but have not received formal evaluation for eligibility to the NRHP.

ICRIS identified 31 eligible or unevaluated resources in the study area (see **Table 7 and Appendix A, Figure 9-1 through Figure 9-4**). Five resources have not been evaluated for NRHP eligibility, while the other 25 resources have been previously determined to be eligible for the NRHP.

Table 7: NRHP Listed and Unevaluated Resources for SH-44, I-84 to Star Road Project

Smithsonian NO.	NAME/TYPE OF SITE	NRHP ELIGIBILITY
10BK272, 10BL39, 10CU216, 10BK309, 10CU237	Old US Hwy 30 Alignment, US 30 Highway	Eligible
10GM409	West Hartley Gulch	Eligible
10CN2721	Junior Davis Property	Eligible
10AA6037	Middleton Canal, Middleton Mill Ditch, Canyon Hill Canal	Eligible
10CN2715	East Hartley Gulch	Eligible
10CN115	Middleton Drainage Ditch	Eligible
10CN122	Oregon Trail	Eligible
10CN114	Canyon Canal	Eligible
*10CN2785	Riverbend Estates LLC Property 1	Eligible
10CN116	Mill Slough	Eligible
10CN3219	Queen Anne House	Unevaluated
10CN2953	Middleton Elementary School	Unevaluated
*10CN3220	Colonial Residence (non-extant)	Unevaluated
*10CN3221	Main Street Residence (non-extant)	Unevaluated
10CN1842	Boise Valley Traction Company Transformer Station	Unevaluated
10CN3272	Middleton Substation	Eligible
*10CN106	Union Pacific Railroad; Idaho Northern and Pacific Railroad, Union Pacific Railroad (Maddens Branch)	Eligible
10CN112	Watkins Ditch	Eligible
10CN113, 10AA620	Lawrence Kennedy Canal	Eligible
10CN1212	Watkins Property	Eligible
10CN3211	Duff Lane, 22918	Eligible
10AA6035	South Middleton Drain	Eligible
10CN3172	Calla Lily Lane, 22664	Eligible
10CN3216	Central Park School	Eligible
10CN2760	Terry Property	Eligible
10CN2761	Burch Property	Eligible
*10CN2786	East Canyon Land Acquisition Co. Property 2 barn	Eligible
*10AA3083	Sample Property	Eligible
10AA1732	Odale Property	Eligible

Smithsonian NO.	NAME/TYPE OF SITE	NRHP ELIGIBILITY
10AA121	Oregon Trail, Kelton Road, Goodale's Cutoff (not shared throughout), The Oregon Trail	Eligible
10AA1732	Odale Property	Eligible

*No longer present.

Following the desktop review, a windshield survey was conducted by Zoe Scuderi (Master's of Studies) on May 14, 2024. The windshield survey was used to verify the presence of eligible and unevaluated resources identified in the desktop review. Six resources (10CN2785 Riverbend Estates LLC Property 1, 10CN3220 Colonial Residence, 10CN3221 Main Street Residence, 10CN106 Union Pacific Railroad; Idaho Northern and Pacific Railroad, Union Pacific Railroad (Maddens Branch), 10CN2786 East Canyon Land Acquisition Co. Property 2 barn, and 10AA3083 Sample Property) were no longer present and have been removed in their entirety. The remaining 25 resources were confirmed present.

During the NEPA phase of the project, the alternatives would need to be surveyed, resources formally recorded, and eligibility determinations made in accordance with Section 106 of the National Historic Preservation Act.

Section 4(f) Resources

Section 4(f) of the Department of Transportation Act of 1966 applies to the use of land from publicly owned parks, recreation sites, wildlife and waterfowl refuges, and public or private historic sites for Federal highway projects. Section 4(f) stipulates that FHWA and ITD cannot approve the use of land from a protected Section 4(f) resource unless the following conditions apply:

- There is no feasible and prudent avoidance alternative to the use of the land; and the actions include all possible planning to minimize harm to the property resulting from such use, or
- FHWA determines that the use of the property will have a de minimis impact.

The city and county comprehensive plans, as well as park and recreation information, were reviewed to identify potential Section 4(f) resources. The NRHP was also reviewed to identify known listed historic sites. Section 4(f) resources will be identified as potential until a Section 4(f) evaluation is completed. Thirty-two (32) potential Section 4(f) resources were identified, of which 22 are historic sites, five are public parks, and four are recreation sites. **Table 8** lists the potential Section 4(f) resources identified and the location along the project (see **Appendix A, Figure 10-1 through Figure 10-4**).

Table 8: Potential Section 4(f) Resources for SH-44, I-84 to Star Road Project

TYPE	SITE
Historic	Old US Hwy 30 Alignment, US 30 Highway
Historic	West Hartley Gulch
Historic	Junior Davis Property
Historic	Middleton Canal (also known as Middleton Mill Ditch, Canyon Hill Canal)

TYPE	SITE
Historic	East Hartley Gulch
Historic	Middleton Drainage Ditch
Historic	Oregon Trail
Historic	Canyon Canal
Historic	Mill Slough
Recreation Area	Middleton Trail
Park	Picadilly Park
Recreation Area	Middleton Middle School
Recreation Area	Middleton Academy
Recreation Area	Middleton Community Center
Park	Davis Park
Historic	Middleton Substation
Park	Roadside Park
Park	Centennial Grove Park*
Park	Middleton Place Park
Historic	Watkins Ditch
Historic	Lawrence Kennedy Canal
Historic	Watkins Property
Historic	Duff Lane, 22918
Historic	South Middleton Drain
Historic	Calla Lily Lane, 22664
Historic	Central Park School
Historic	Terry Property
Historic	Burch Property
Historic	East Canyon Land Acquisition Co. Property 2 barn
Historic	Oregon Trail, Kelton Road, Goodale's Cutoff (not shared throughout), The Oregon Trail
Historic	Odale Property

*As part of the draft EA prepared in 2012, Centennial Grove Park was determined through coordination with the City of Middleton to NOT be considered a significant park and the City acknowledged project actions would cross the park and essentially eliminate it as a result. This site will need to be reassessed for significance; therefore, included a potential Section 4(f) resource.

Section 6(f) Resources

Passed by Congress in 1965, the Recreation Coordination and Development Act established the LWCF, a matching assistance program that provides grants, which pay half the acquisition and development costs of outdoor recreation sites and facilities. Section 6(f) of the Act prohibits the conversion of property

acquired or developed with these grants to a non-recreational purpose without the approval of the U.S. Department of the Interior (DOI)- National Park Service. The DOI must approve and ensure any replacement lands are of equal, value, location, and usefulness.

A search of grants funded for Ada and Canyon Counties indicates three projects (Piccadilly Park, Middleton Roadside Park, and Middleton Place Park) in the City of Middleton funded through the LWCF program within the study area (see **Appendix A, Figure 11-1**). Piccadilly Park received funds to develop a splash pad within the park. The Middleton Roadside Park and Middleton Place Park both received funds for the acquisition and development.

Conversion of Section 6(f) resources require replacement lands. If the project cannot avoid impacts to the resources, then coordination with ITD and DOI will be necessary.

Land Use and Zoning

Current zoning and future land use data was obtained for the cities of Caldwell, Middleton, and Star, and Ada County. The following is a description of the existing and future zoning and land use along the project corridor.

City of Caldwell

Existing land use along the project within City of Caldwell consists of single family residential, neighborhood commercial, and commercial/service. Future zoning along the project within the City of Caldwell jurisdiction is composed of commercial/service and residential estates.

City of Middleton

Existing land use along the project within the City of Middleton is dominantly composed of single family residential, agricultural residential, and mixed use. Other minor land uses along the corridor include neighborhood commercial, light and heavy commercial, light industrial, and large lot residential.

The future land use as depicted in the Comprehensive Plan shows the study area transitioning to a commercial, mixed use, and residential – special use area dominated use.

City of Star

Existing land use along the project within the City of Star is a mix of residential, rural residential, mixed use, neighborhood commercial, general commercial, central business district, and light industrial. The future zoning consists dominantly of commercial and central business district with minor inclusions of neighborhood residential and existing public use/parks and open space.

Ada County

Existing land use along the project within Ada County is a mix of neighborhood commercial, service commercial, and single and medium family residential. Future land use along the corridor within Ada County remains unchanged in that the corridor remains commercial and residential uses.

Traffic Noise

There are numerous sensitive traffic noise receptors adjacent and along the project. These include residential areas, schools, churches, day care centers, medical facilities, parks, offices, and restaurants. The sensitive receptors would likely increase in noise as a result of project actions. Increases have not yet been evaluated as part of this project but if they exceed criteria then noise abatement will be

considered. The alternatives would be considered a Type 1 project under ITD noise policy; therefore, a traffic noise analysis would be required.

Federal Aviation Administration (FAA) Airspace Intrusion

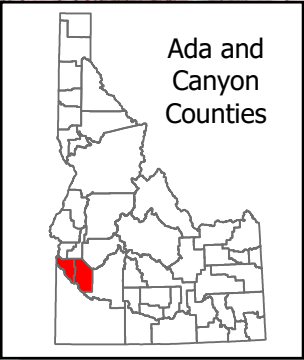
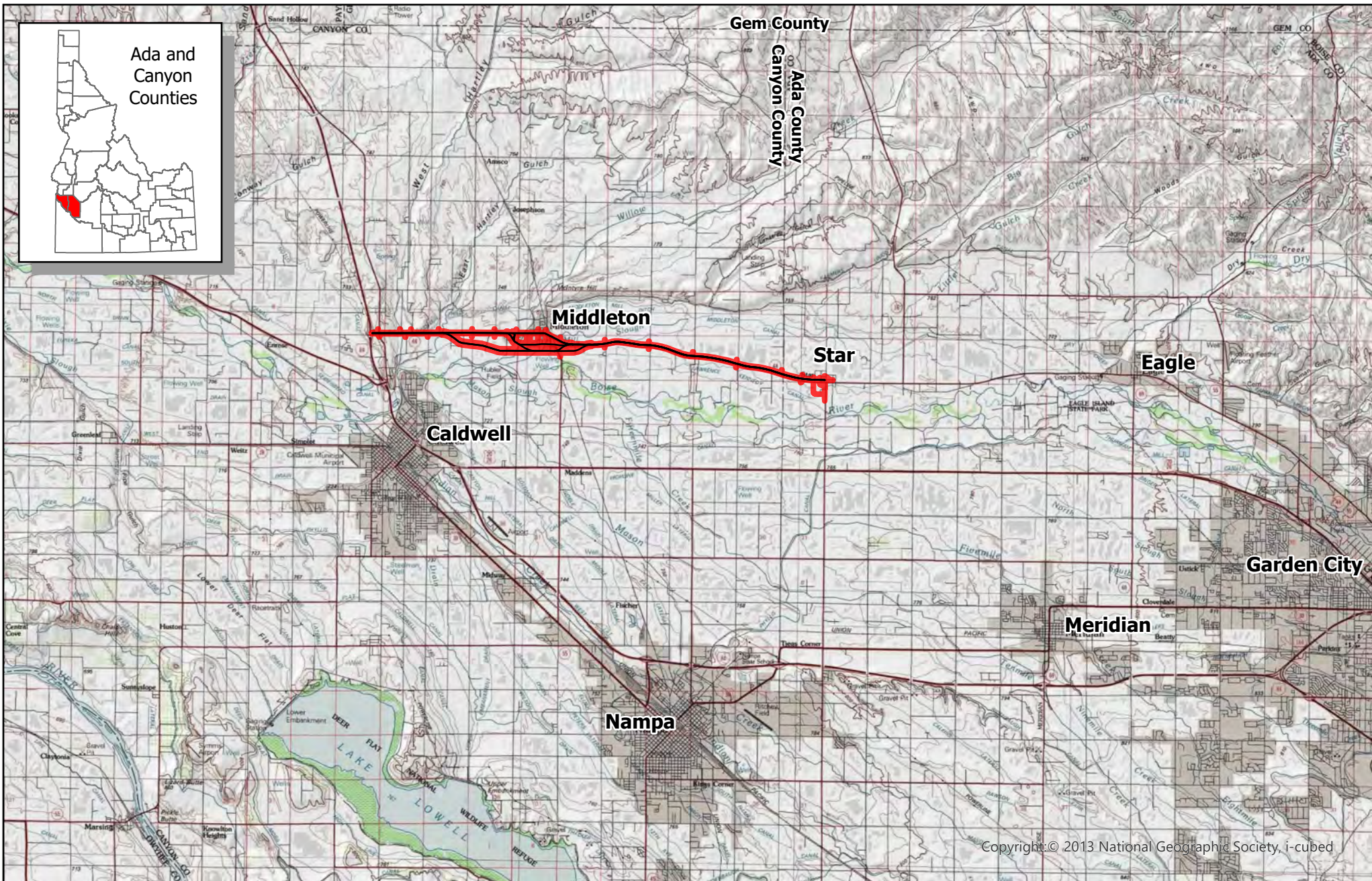
No public aviation facilities were identified within 20,000 feet of the project; therefore, no notification or coordination will be required as part of project actions.

Data Sources

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- Table 2: Corridor Land Cover within SH-44 PEL Study area
<https://croplandcros.scinet.usda.gov/>
- Table 3: UST/LUST Sites
<https://www.deq.idaho.gov/waste-management-and-remediation/facility-mapper/>
<https://www2.deq.idaho.gov/waste/ustlust/>
<https://enviro.epa.gov/>
- Table 4: RCRA, GR, MSWL, and Other Sites
<https://www.deq.idaho.gov/waste-management-and-remediation/facility-mapper/>
<https://enviro.epa.gov/>
- Table 5: ESA Listed Species
<https://ipac.ecosphere.fws.gov/>
- Table 6: Demographic Information
<https://ejscreen.epa.gov/mapper/>
- Table 7: NRHP Listings
<https://icris-history.idaho.gov/historic-map>
- Table 8: Potential 4(f) Public Parks, Recreation Areas, Wildlife and Waterfowl Refuges
<https://icris-history.idaho.gov/historic-map>
<https://gmprd.org/parks>
<https://middleton.id.gov/Departments/Parks-Pathways>

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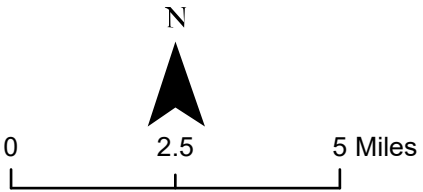


Ada and Canyon Counties

Figure 1-1. Vicinity Map for SH-44, I-84 to Star Road PEL Environmental Scan Project No. A023(630), Key No. 23630

Legend

- Project Area
- Alignments



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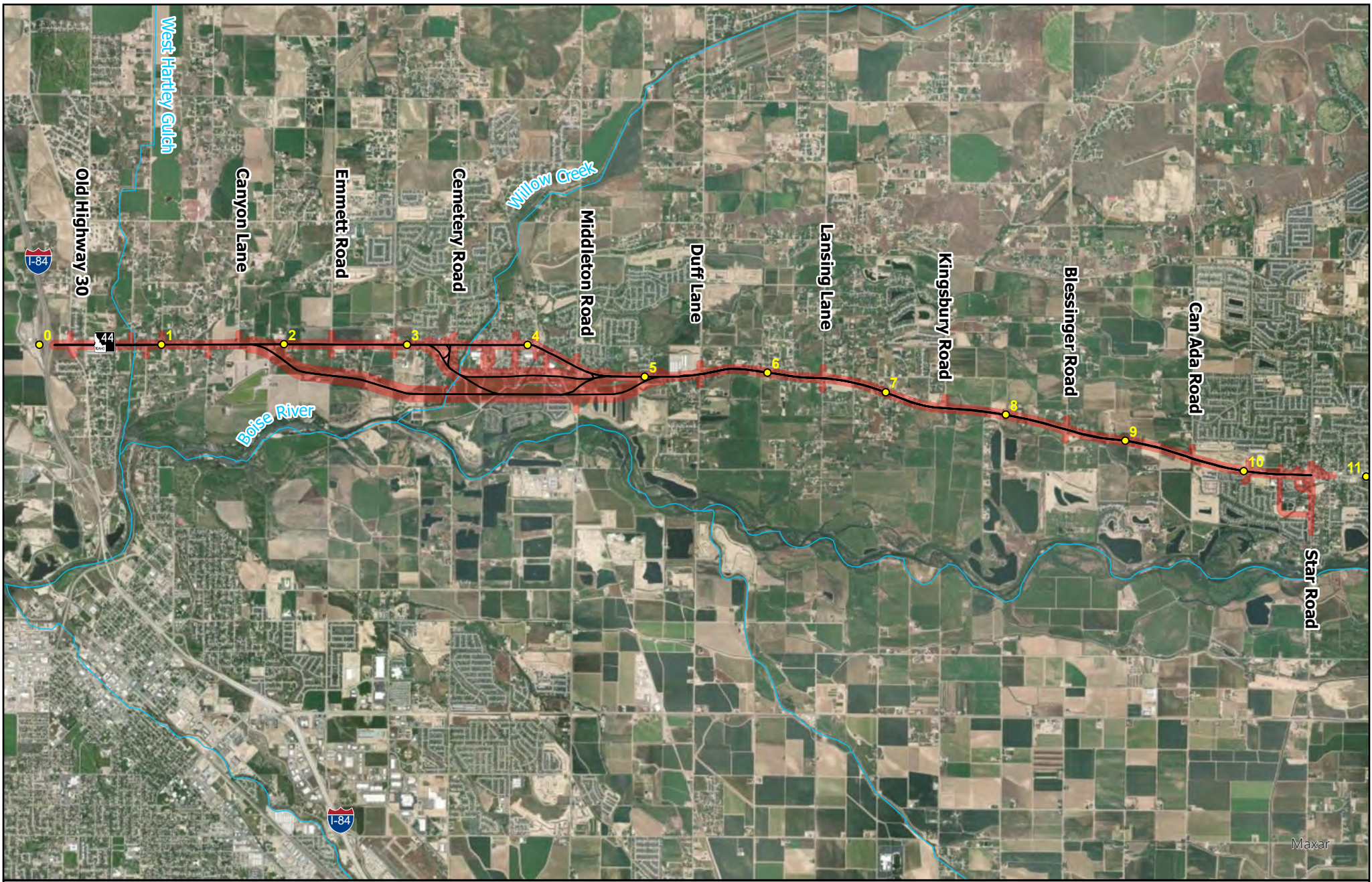
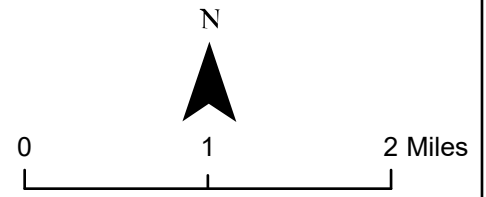


Figure 2-1. Site Map for
 SH-44, I-84 to Star Road PEL Environmental Scan
 Project No. A023(630), Key No. 23630

Legend

- Project Area
- Alignments
- Mileposts
- Waters



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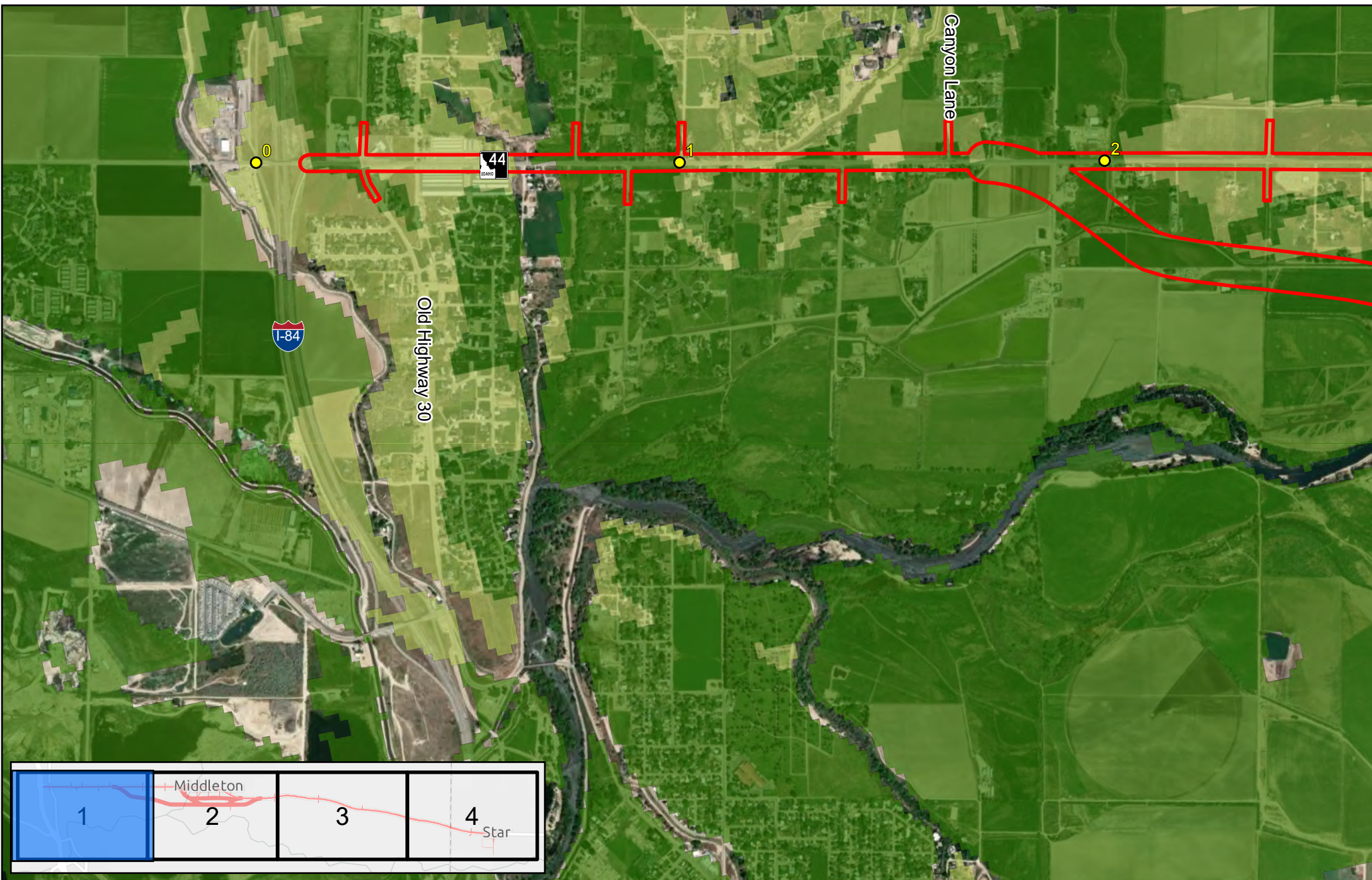
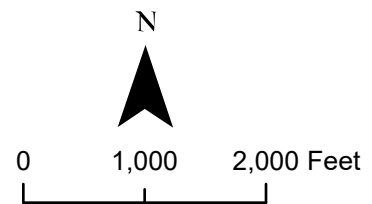


Figure 3-1: Prime Farmland Map for
 SH-44, I-84 to Star Road PEL Environmental Scan
 Project No. A023(630), Key No. 23630

Legend

- Project Area
- Prime Farmland
- Mileposts
- Farmland of Statewide Importance



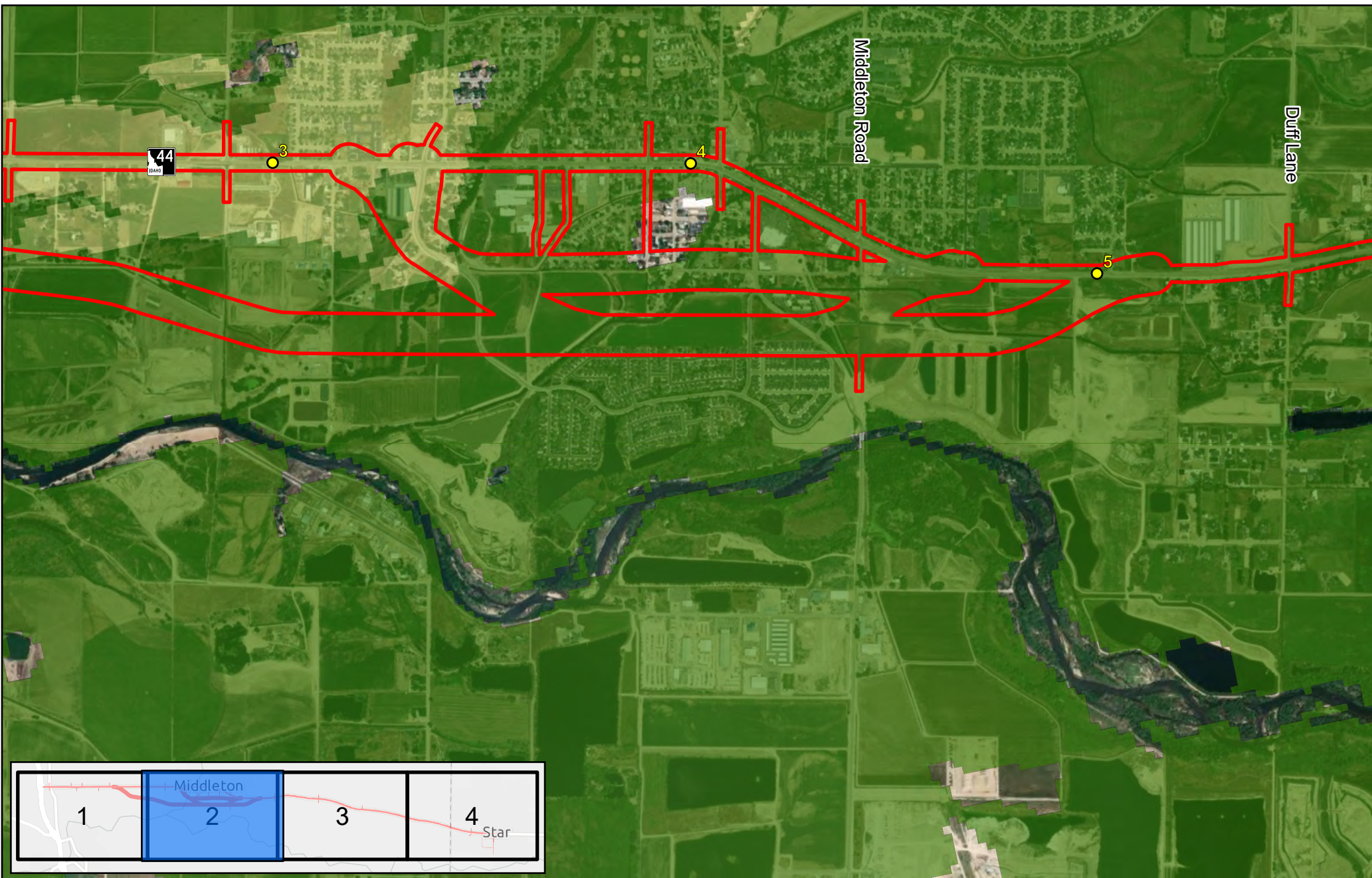
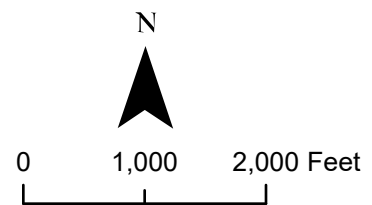


Figure 3-2: Prime Farmland Map for
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 Project No. A023(630), Key No. 23630

Legend

- Project Area
- Prime Farmland
- Mileposts
- Farmland of Statewide Importance



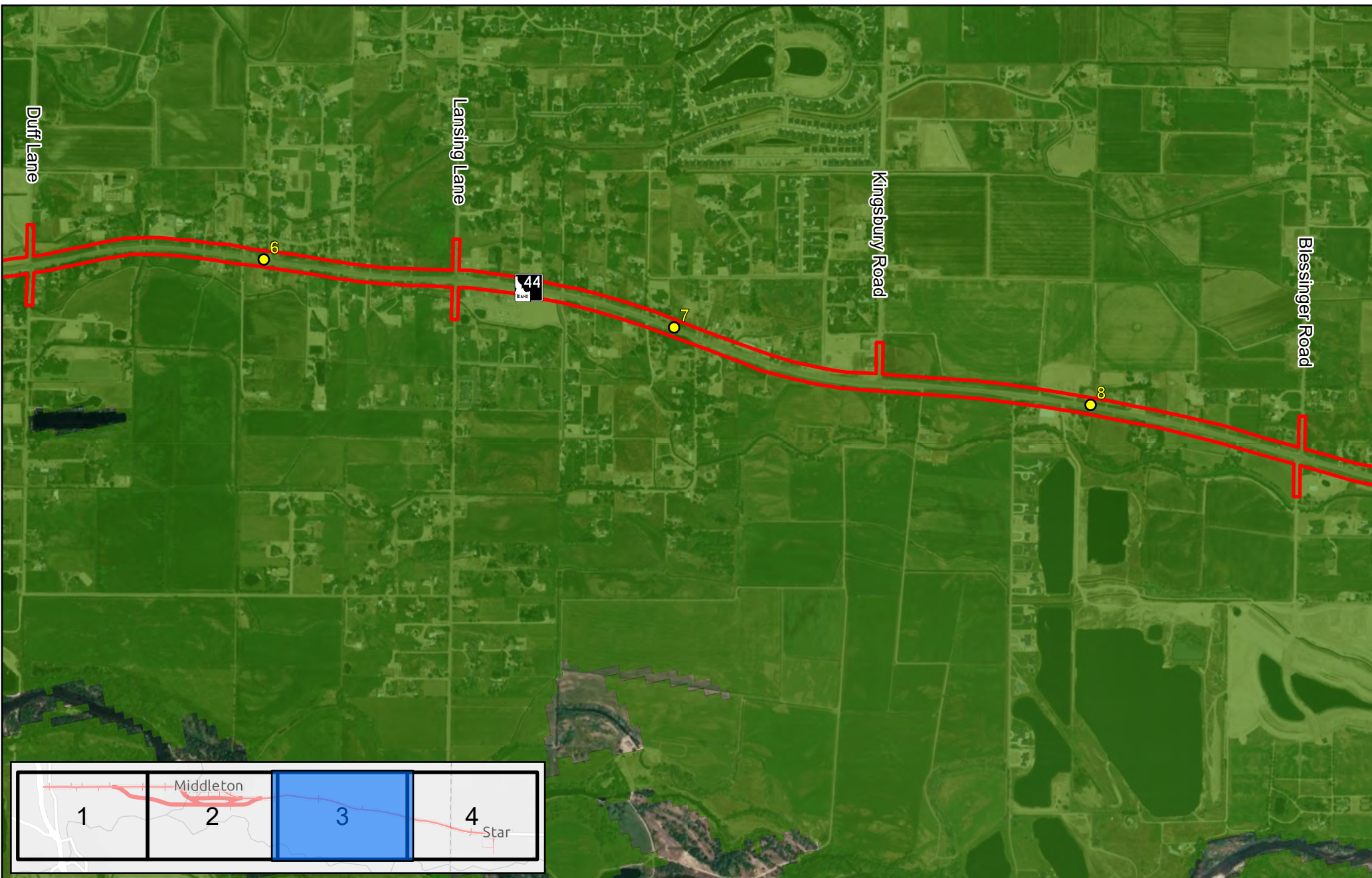
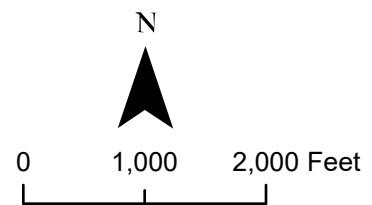


Figure 3-3: Prime Farmland Map for
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 Project No. A023(630), Key No. 23630

Legend

- Project Area
- Prime Farmland
- Mileposts
- Farmland of Statewide Importance



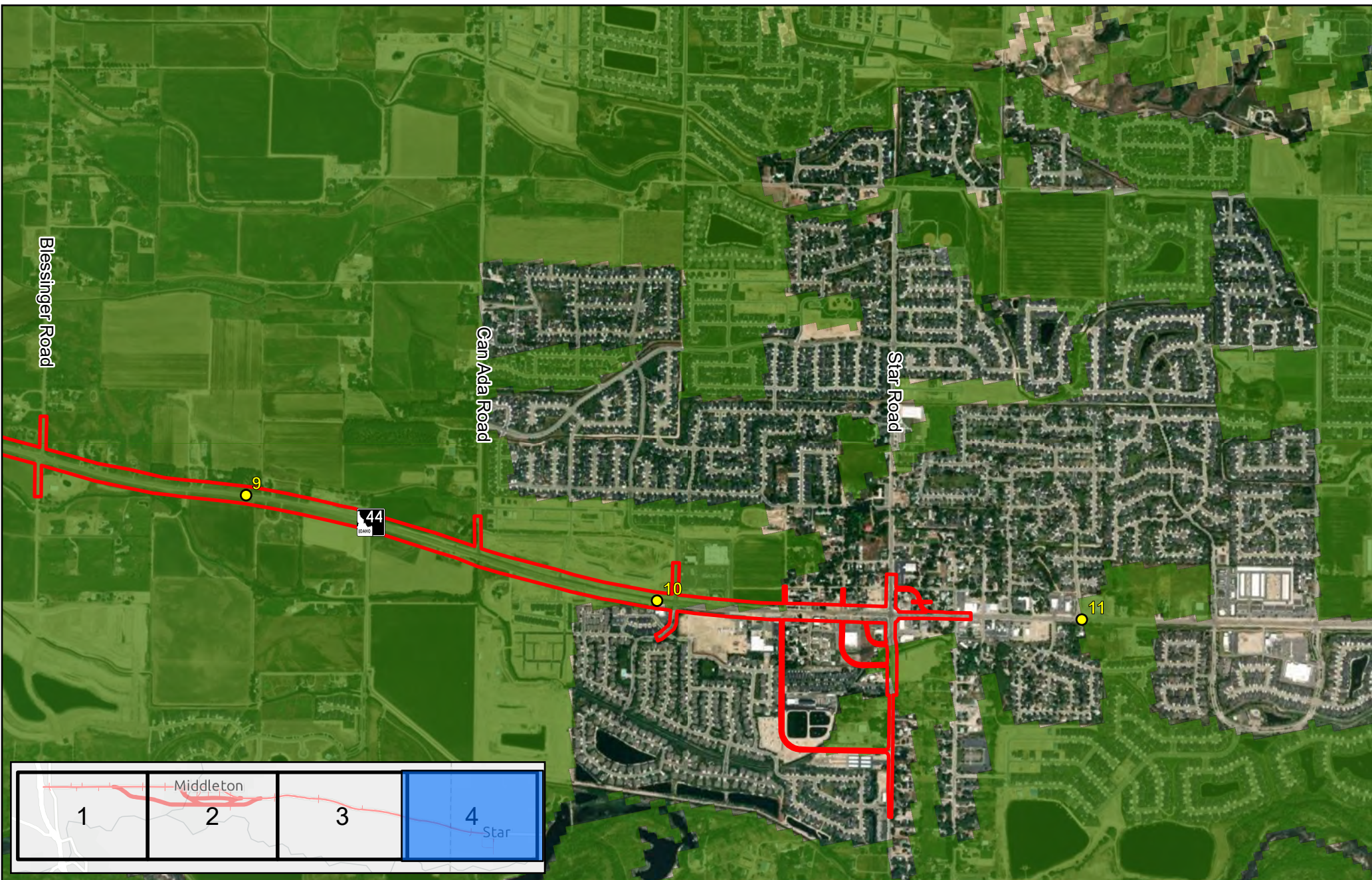
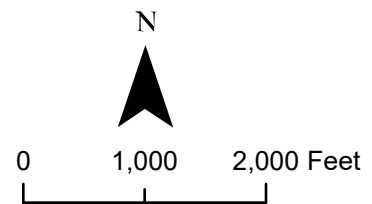


Figure 3-4: Prime Farmland Map for SH-44, I-84 to Star Road PEL Environmental Scan Project No. A023(630), Key No. 23630

Legend

- Project Area
- Prime Farmland
- Mileposts
- Farmland of Statewide Importance



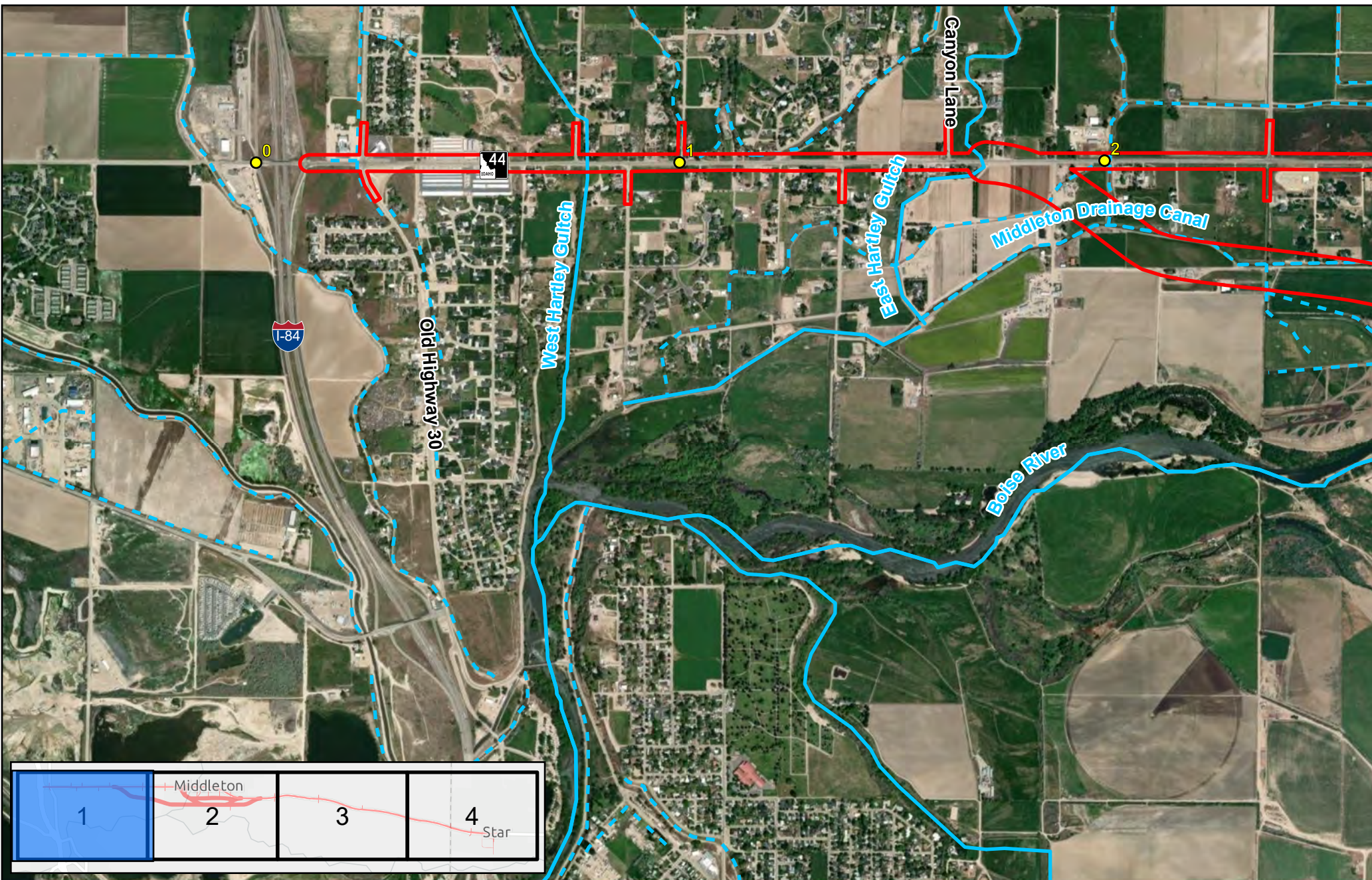
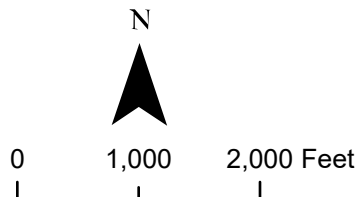


Figure 4-1: Surface Waters Map for SH-44, I-84 to Star Road PEL Environmental Scan
 Project No. A023(630), Key No. 23630

- Legend**
- ▭ Project Area
 - Natural Waters
 - Mileposts
 - - - Canals



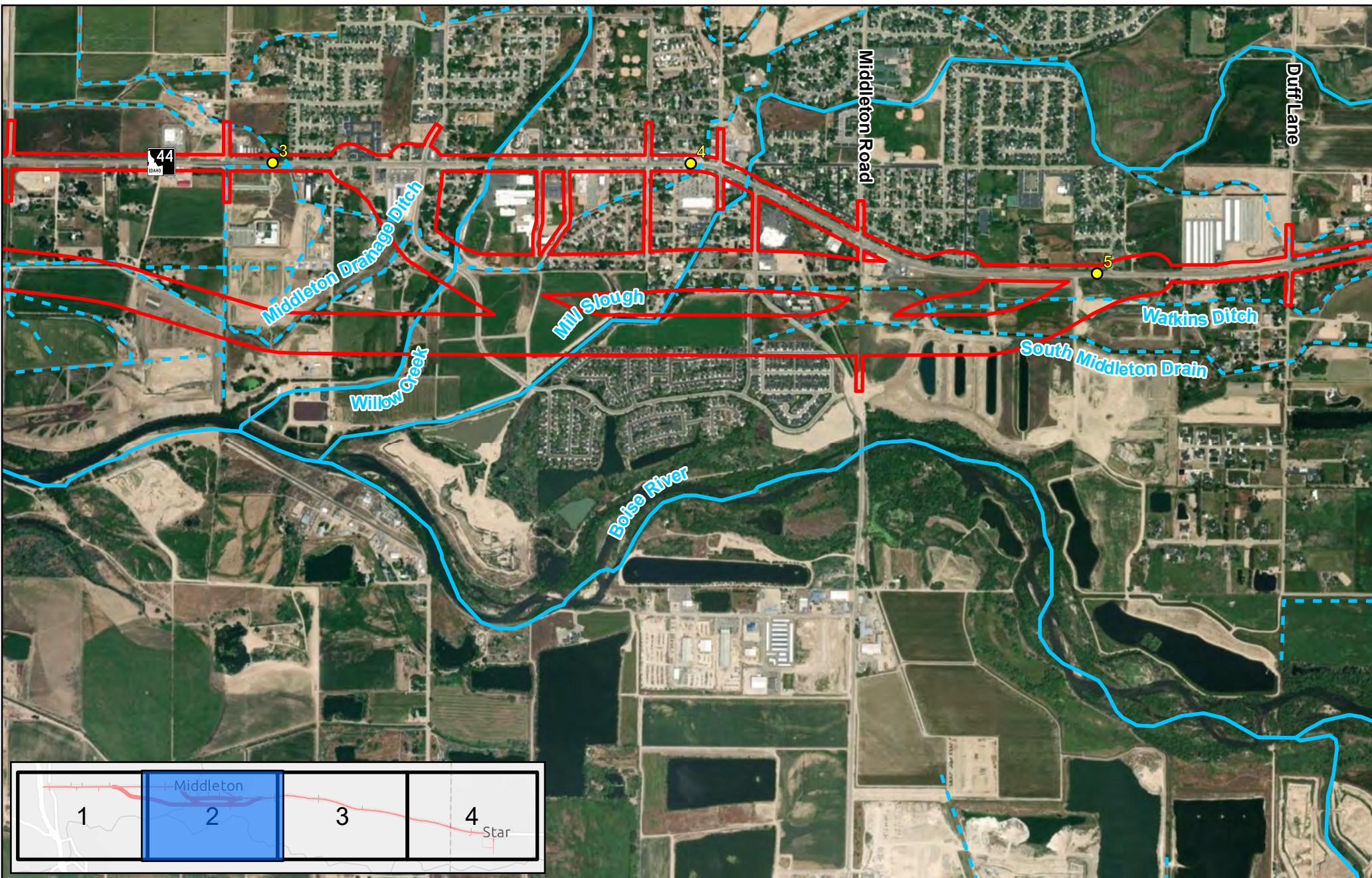
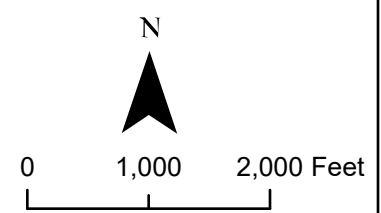


Figure 4-2: Surface Waters Map for SH-44, I-84 to Star Road PEL Environmental Scan Project No. A023(630), Key No. 23630

Legend

- ▭ Project Area
- Natural Waters
- Mileposts
- - - Canals



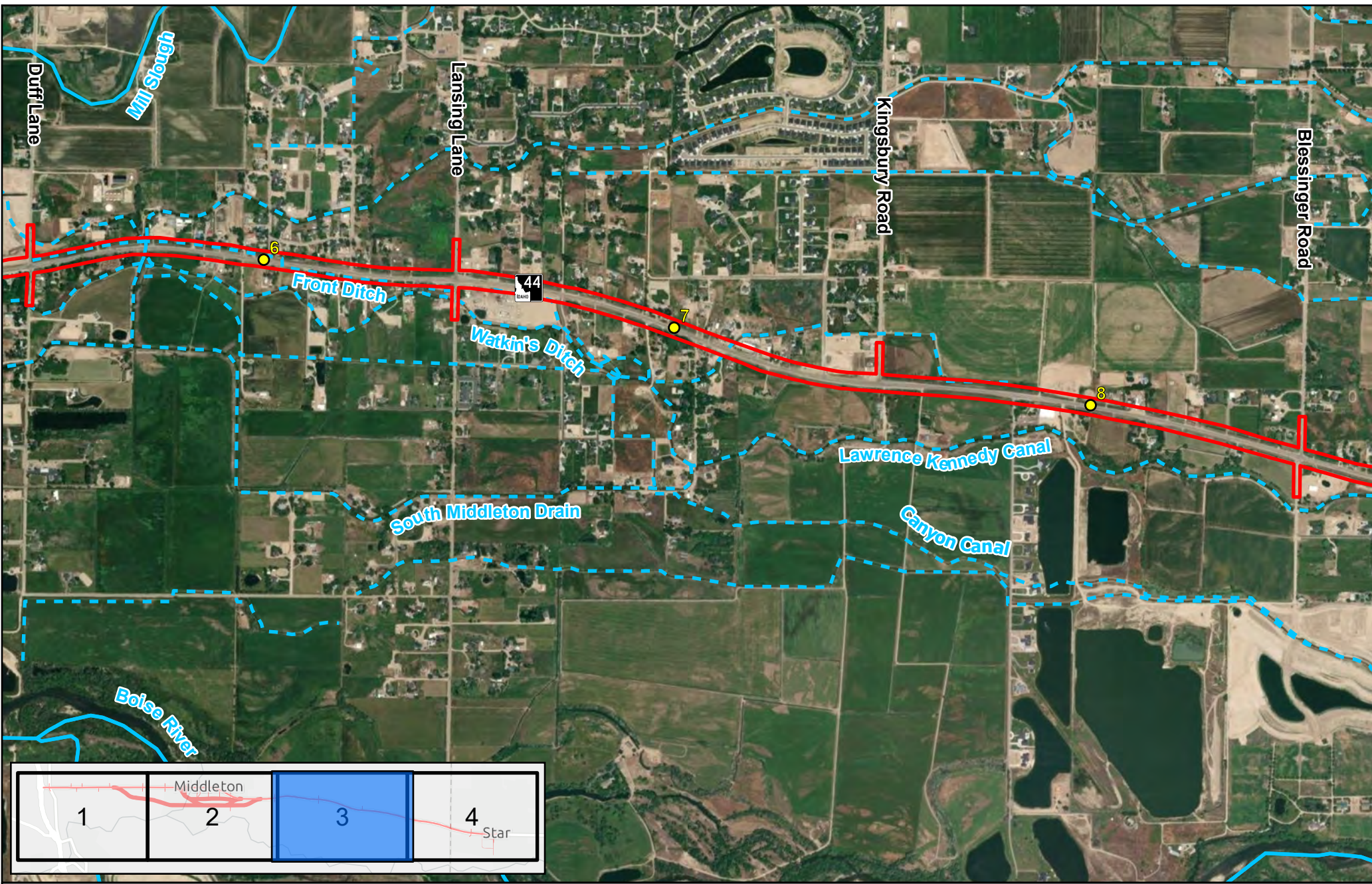
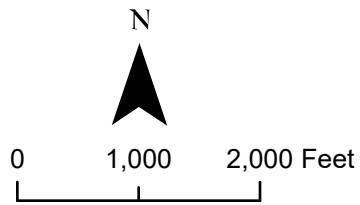


Figure 4-3: Surface Waters Map for SH-44, I-84 to Star Road PEL Environmental Scan Project No. A023(630), Key No. 23630

- Legend**
- ▭ Project Area
 - ▬ Natural Waters
 - Mileposts
 - - - Canals



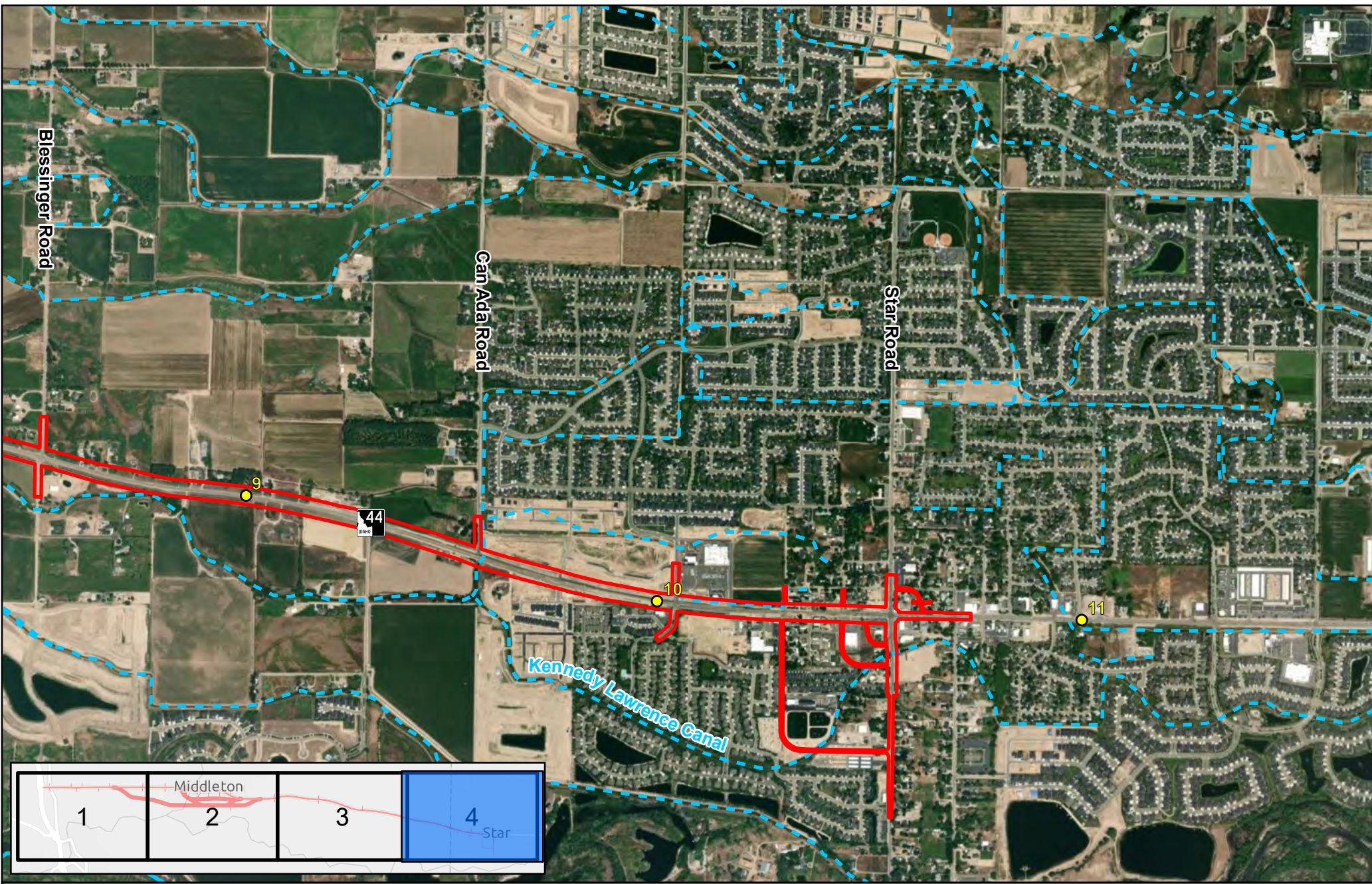
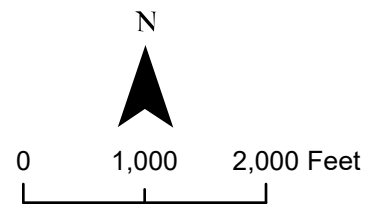


Figure 4-4: Surface Waters Map for
 SH-44, I-84 to Star Road PEL Environmental Scan
 Project No. A023(630), Key No. 23630

Legend

- ▭ Project Area
- ▬ Natural Waters
- Mileposts
- - - Canals



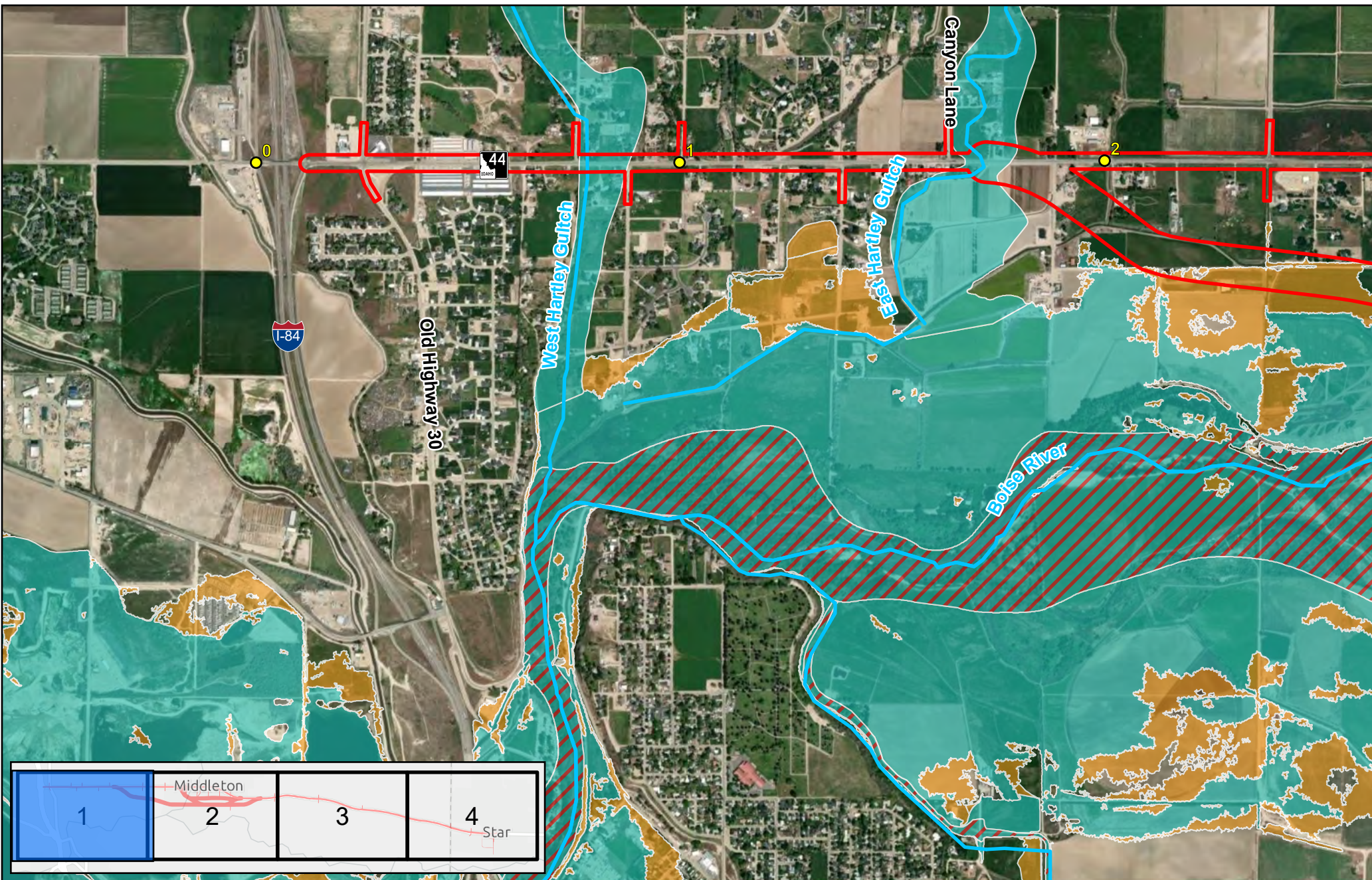
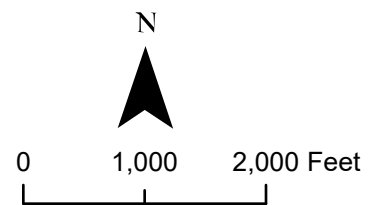


Figure 5-1: Floodplain Map for
 SH-44, I-84 to Star Road PEL Environmental Scan
 Project No. A023(630), Key No. 23630

Legend

- Project Area
- 0.2% Annual Chance Flood Hazard
- 1% Annual Chance Flood Hazard
- Waters
- Regulatory Floodway
- Mileposts



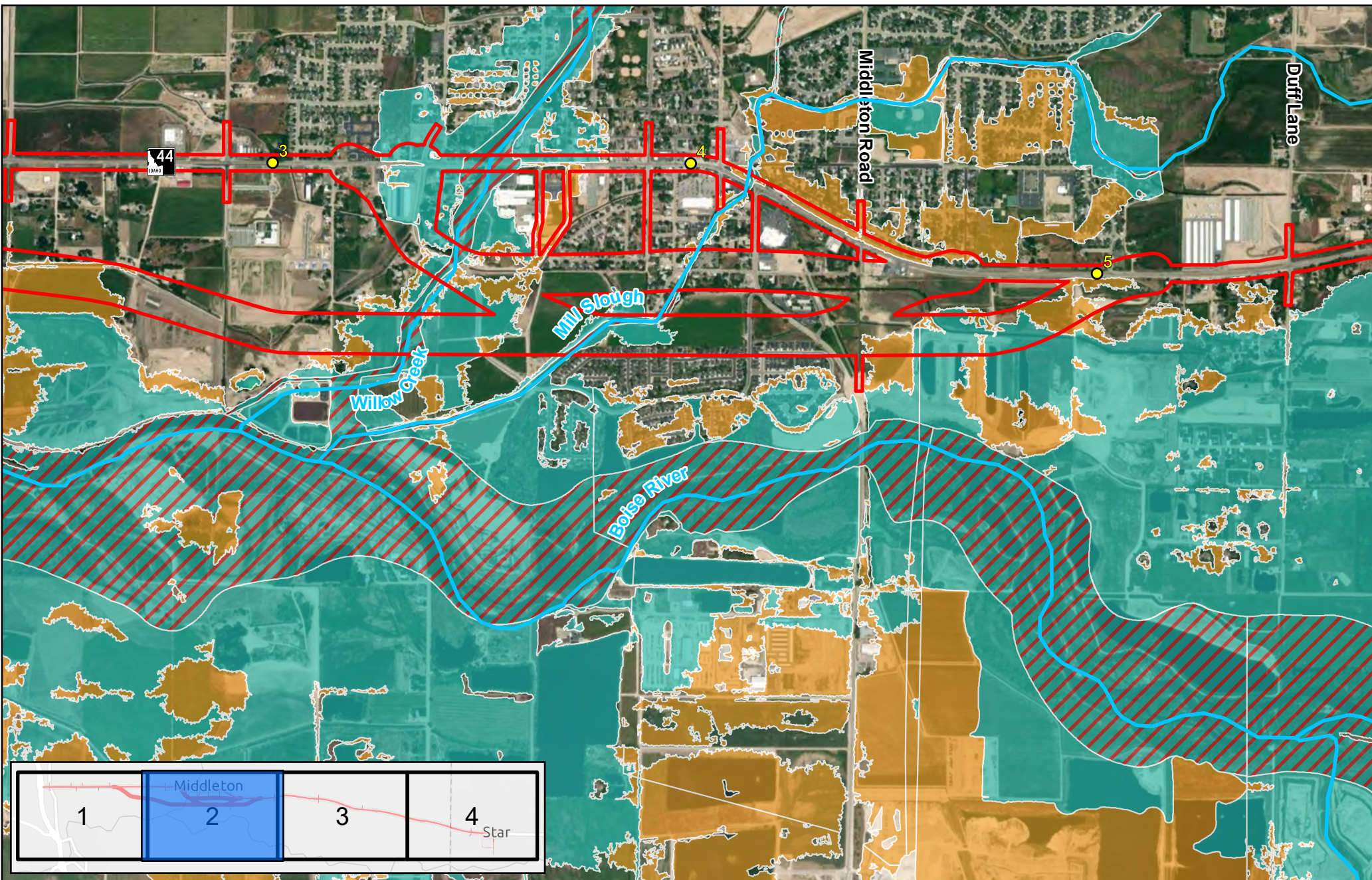
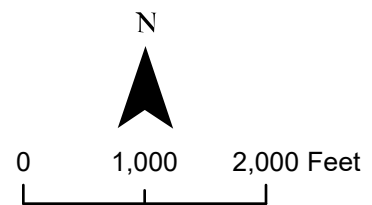


Figure 5-2: Floodplain Map for
 SH-44, I-84 to Star Road PEL Environmental Scan
 Project No. A023(630), Key No. 23630

Legend

- Project Area
- 0.2% Annual Chance Flood Hazard
- 1% Annual Chance Flood Hazard
- Regulatory Floodway
- Mileposts
- Waters



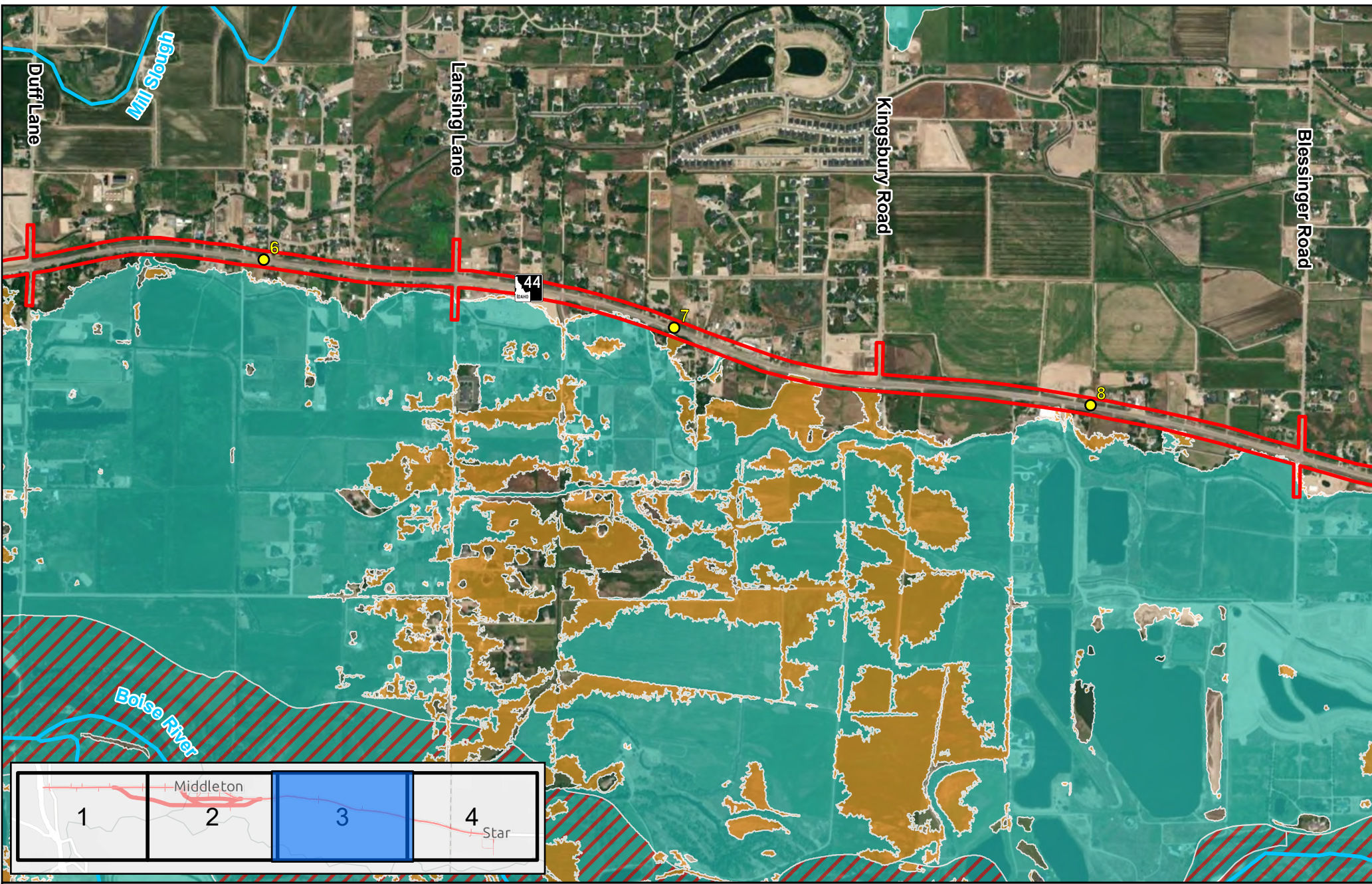
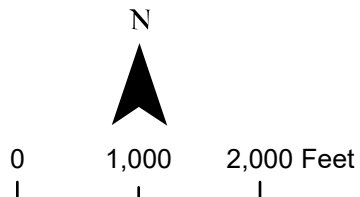


Figure 5-3: Floodplain Map for
 SH-44, I-84 to Star Road PEL Environmental Scan
 Project No. A023(630), Key No. 23630

- Legend**
- Project Area
 - Mileposts
 - Waters
 - 0.2% Annual Chance Flood Hazard
 - 1% Annual Chance Flood Hazard
 - Regulatory Floodway



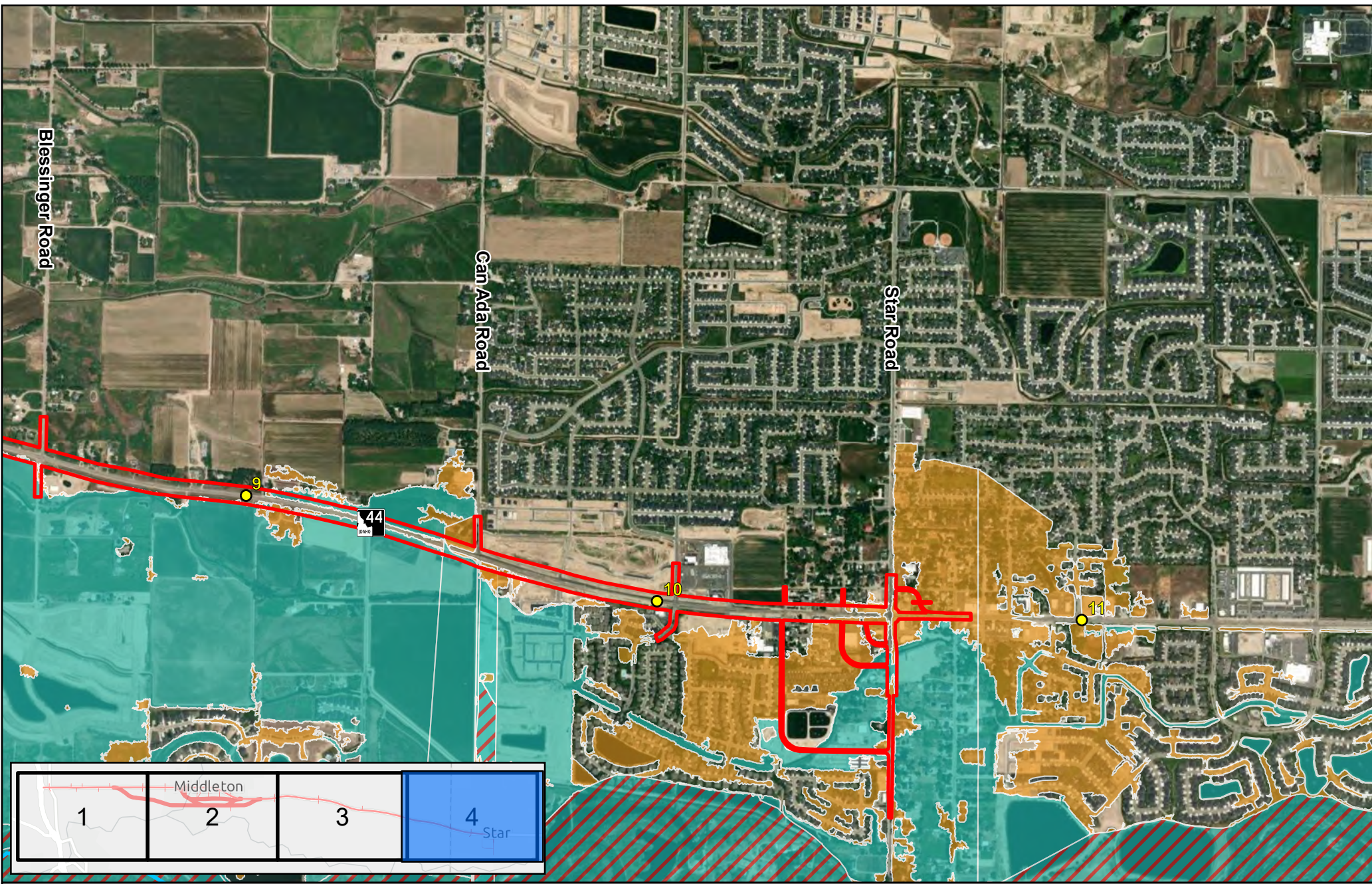
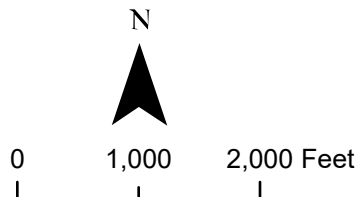


Figure 5-4: Floodplain Map for SH-44, I-84 to Star Road PEL Environmental Scan Project No. A023(630), Key No. 23630

- Legend**
- Project Area
 - 0.2% Annual Chance Flood Hazard
 - 1% Annual Chance Flood Hazard
 - Waters
 - Regulatory Floodway
 - Mileposts



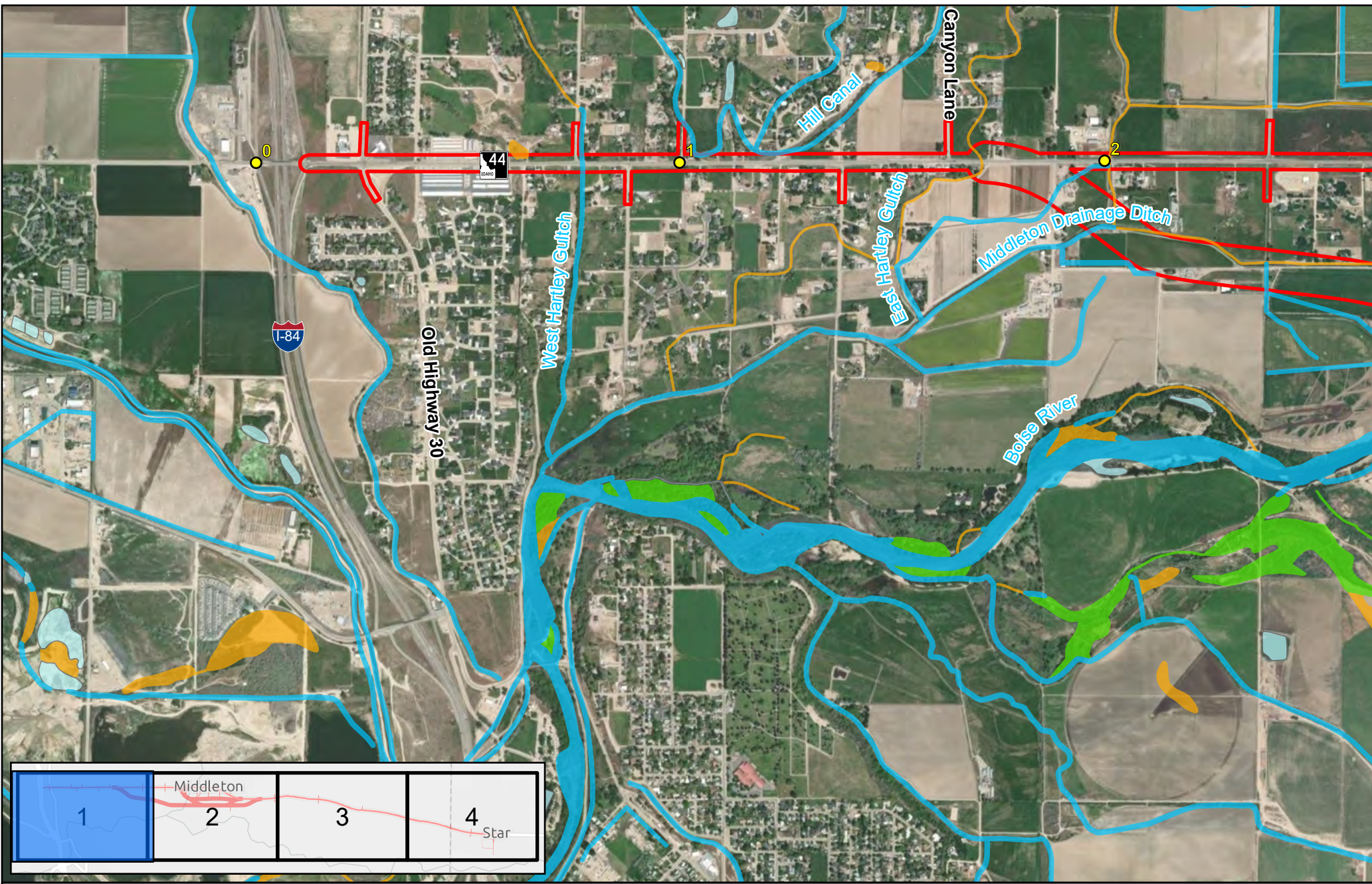
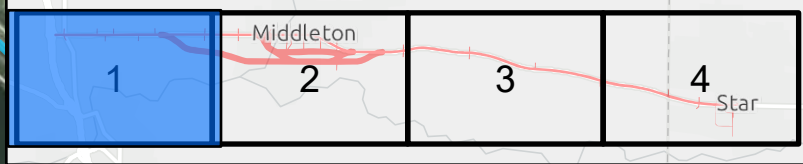
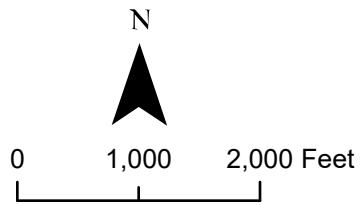


Figure 6-1: USFWS NWI Mapped Wetlands for SH-44, I-84 to Star Road PEL Environmental Scan Project No. A023(630), Key No. 23630

- Legend**
- Project Area
 - Mileposts
 - Freshwater Emergent Wetland
 - Freshwater Forested/Shrub Wetland
 - Freshwater Pond
 - Lake
 - Riverine



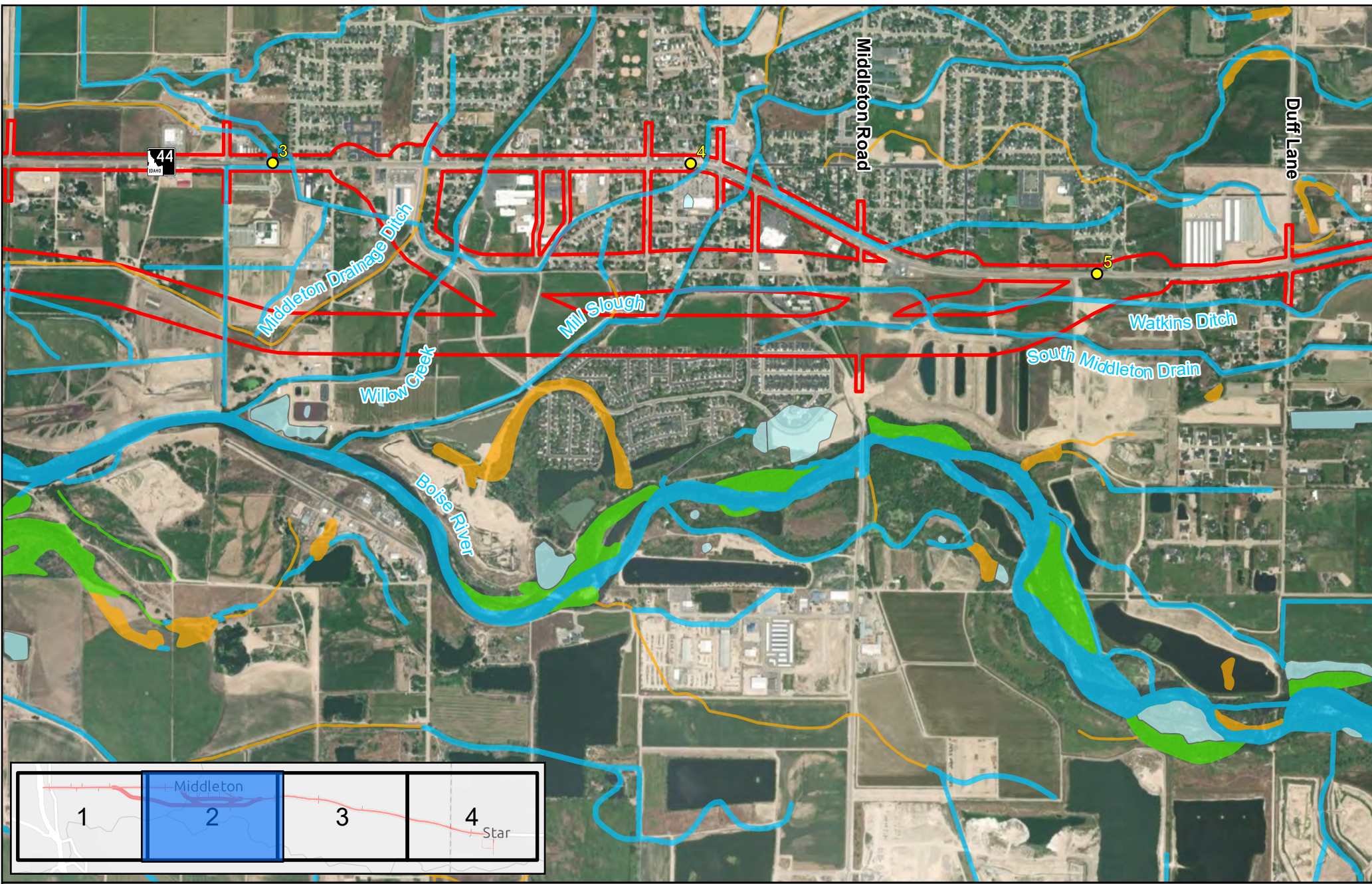
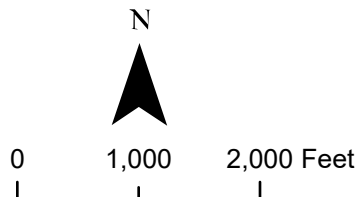


Figure 6-2: USFWS NWI Mapped Wetlands for SH-44, I-84 to Star Road PEL Environmental Scan Project No. A023(630), Key No. 23630

- Legend**
- ▭ Project Area
 - Mileposts
 - ▭ Freshwater Emergent Wetland
 - ▭ Freshwater Forested/Shrub Wetland
 - ▭ Freshwater Pond
 - ▭ Lake
 - ▭ Riverine



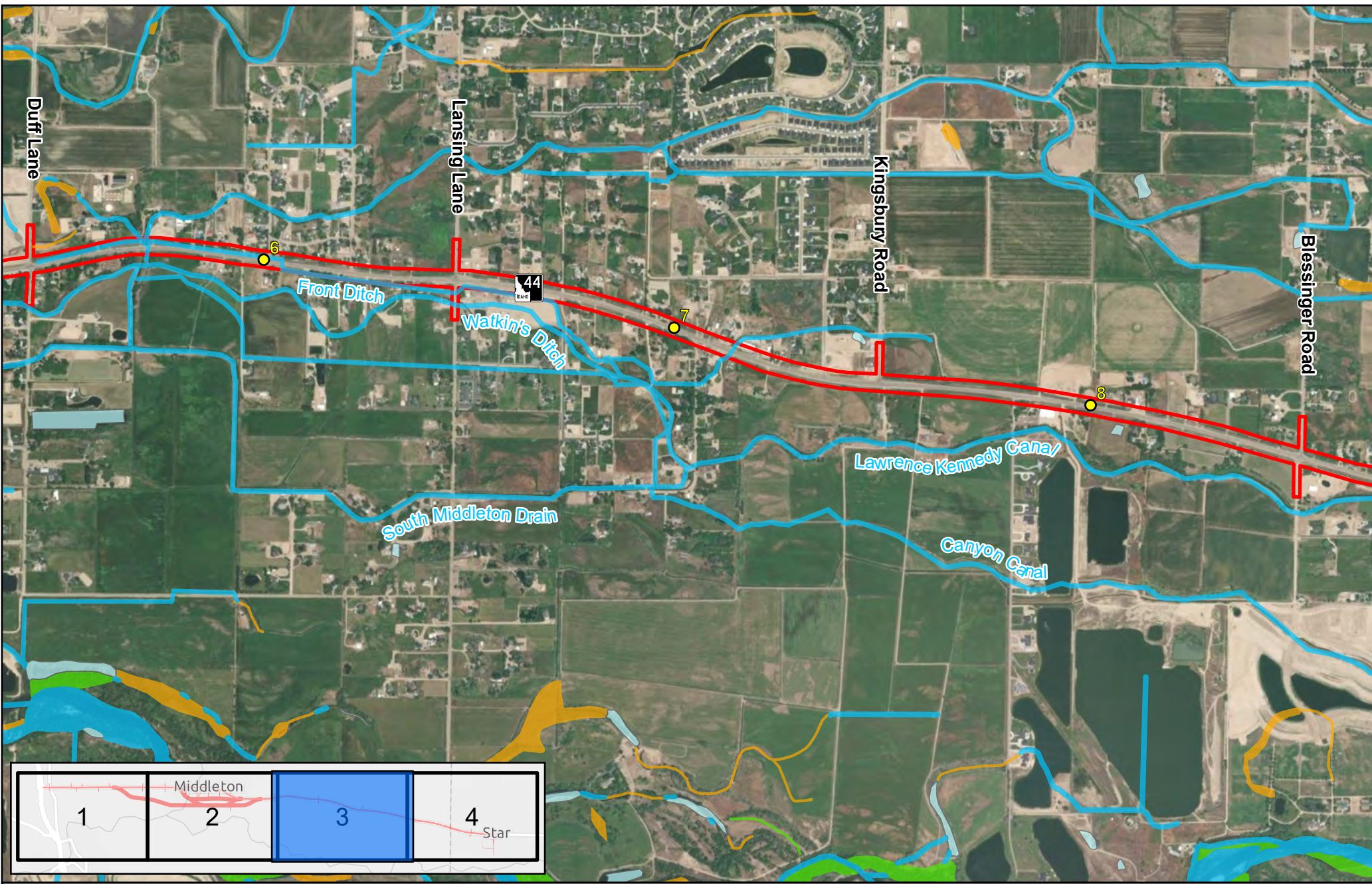
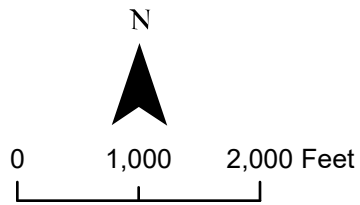


Figure 6-3: USFWS NWI Mapped Wetlands for SH-44, I-84 to Star Road PEL Environmental Scan Project No. A023(630), Key No. 23630

Legend

- Project Area
- Mileposts
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Riverine



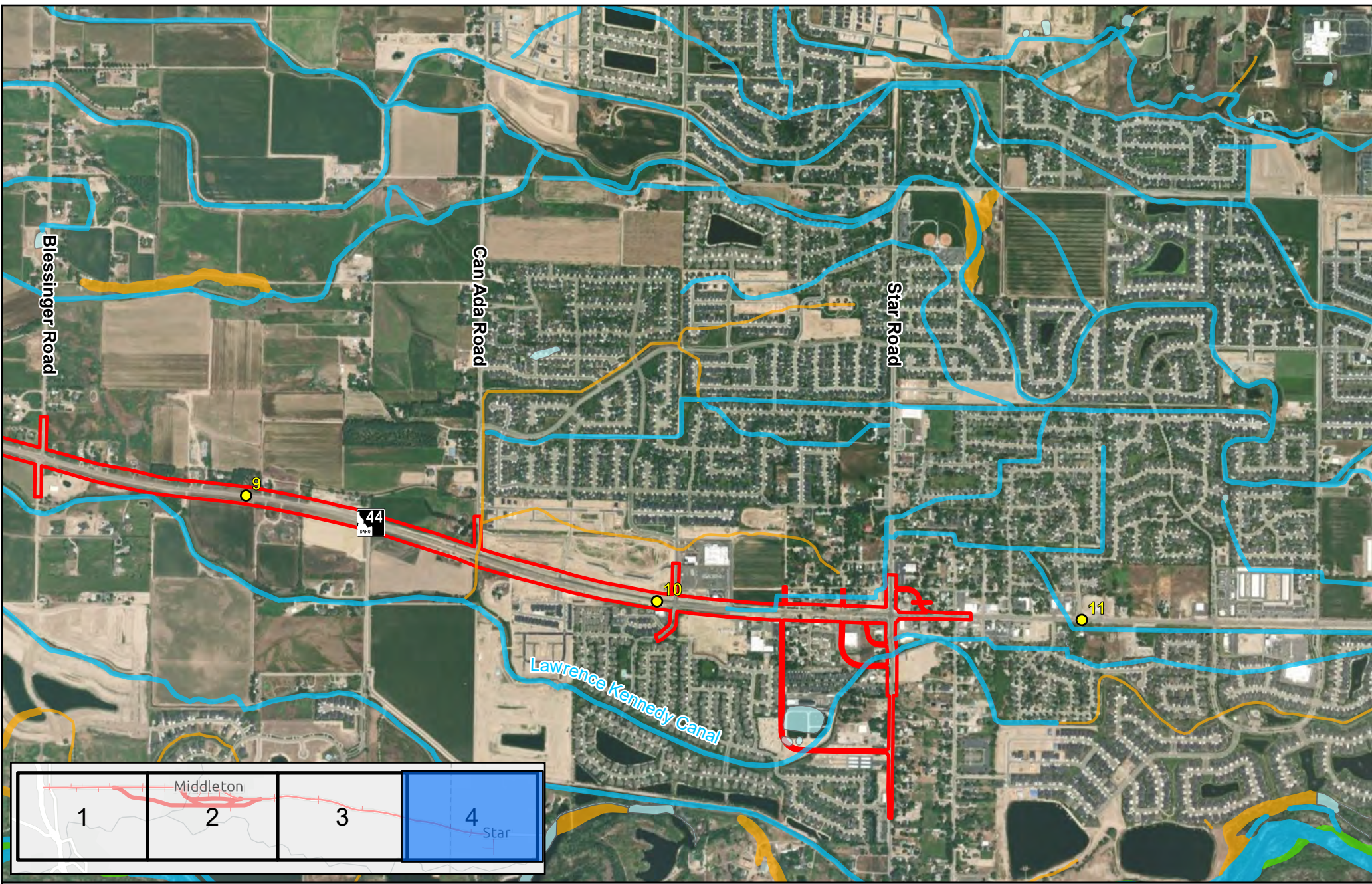
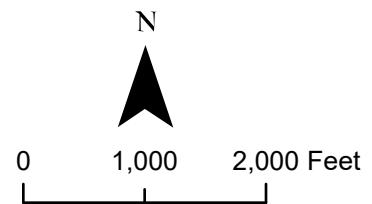


Figure 6-4: USFWS NWI Mapped Wetlands for SH-44, I-84 to Star Road PEL Environmental Scan Project No. A023(630), Key No. 23630

Legend

- Project Area
- Mileposts
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Riverine



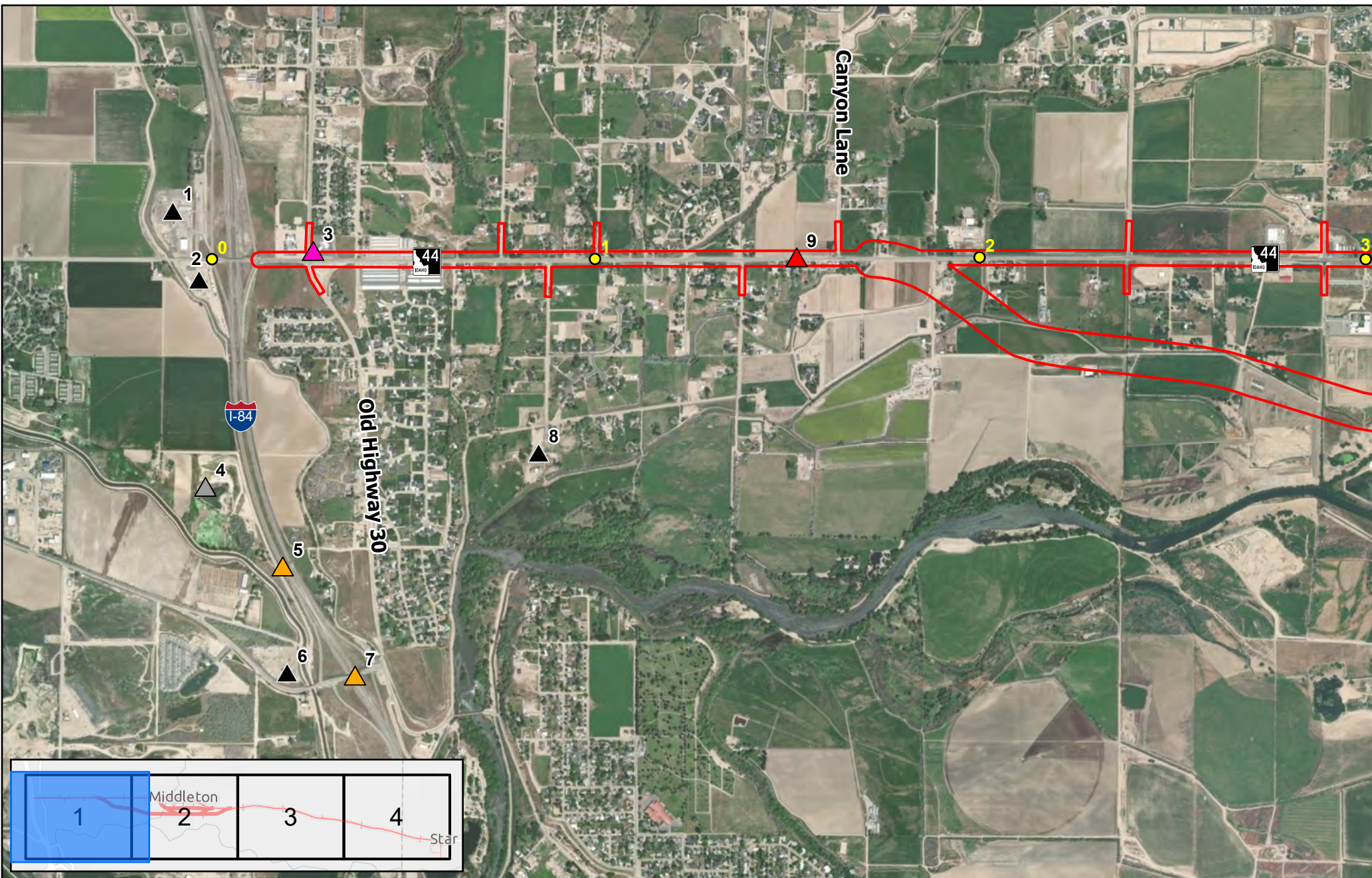
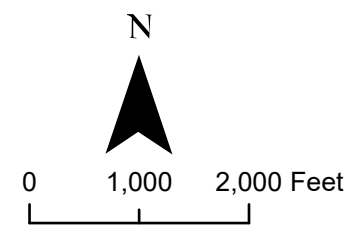


Figure 7-1: Hazardous Material Sites Map for SH-44, I-84 to Star Road PEL Environmental Scan Project No. A023(630), Key No. 23630

Legend

- | | | |
|--------------|------|-------|
| Project Area | GR | OTHER |
| Mileposts | LUST | RCRA |
| MULTI | UST | |



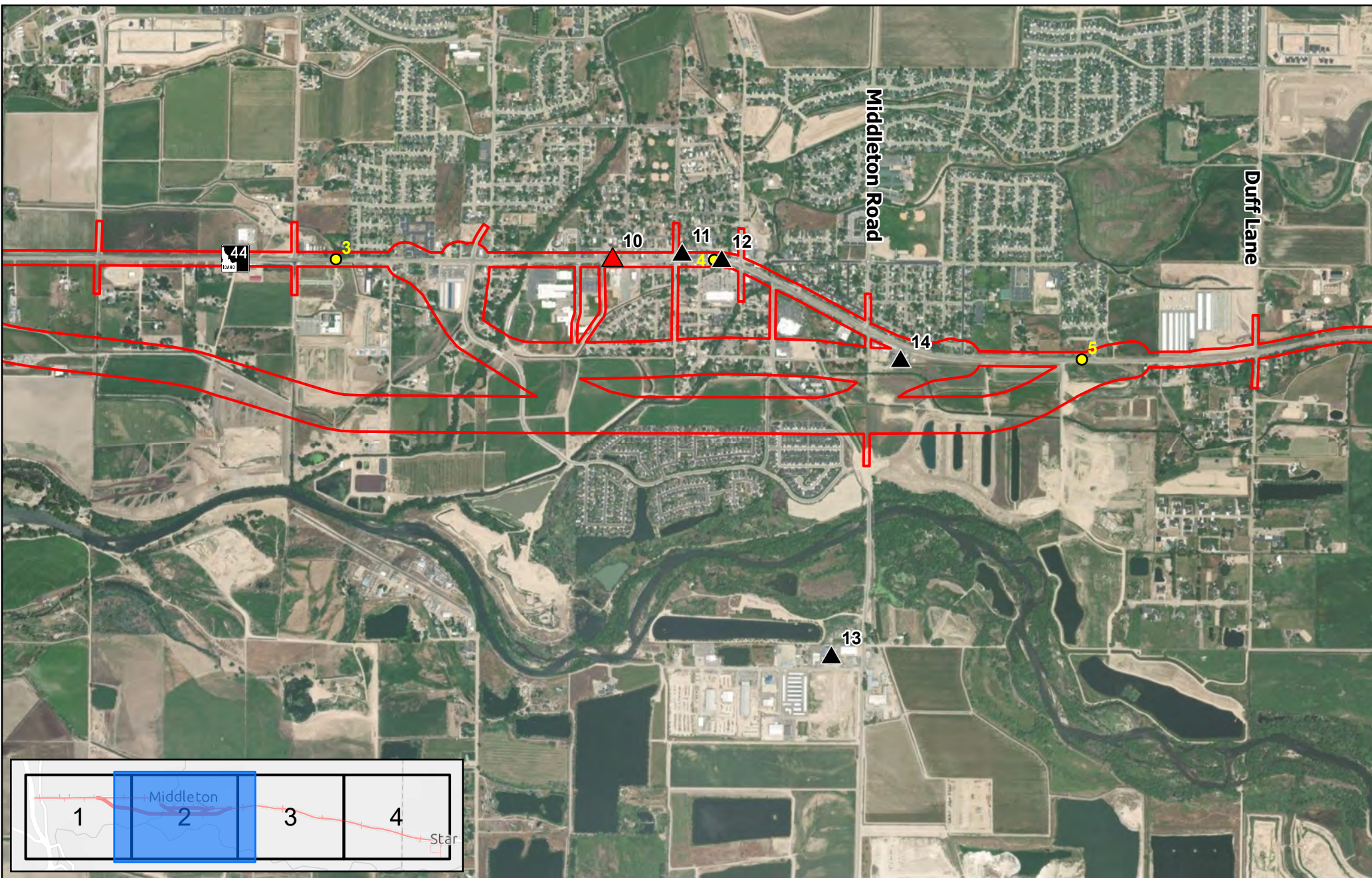
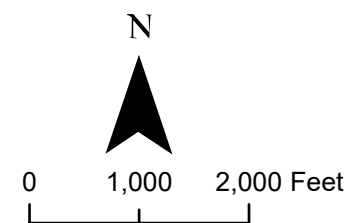


Figure 7-2: Hazardous Material Sites Map for SH-44, I-84 to Star Road PEL Environmental Scan Project No. A023(630), Key No. 23630

Legend

- | | | |
|--------------|-------|-------|
| Project Area | GR | OTHER |
| Mileposts | LUST | RCRA |
| | MULTI | UST |



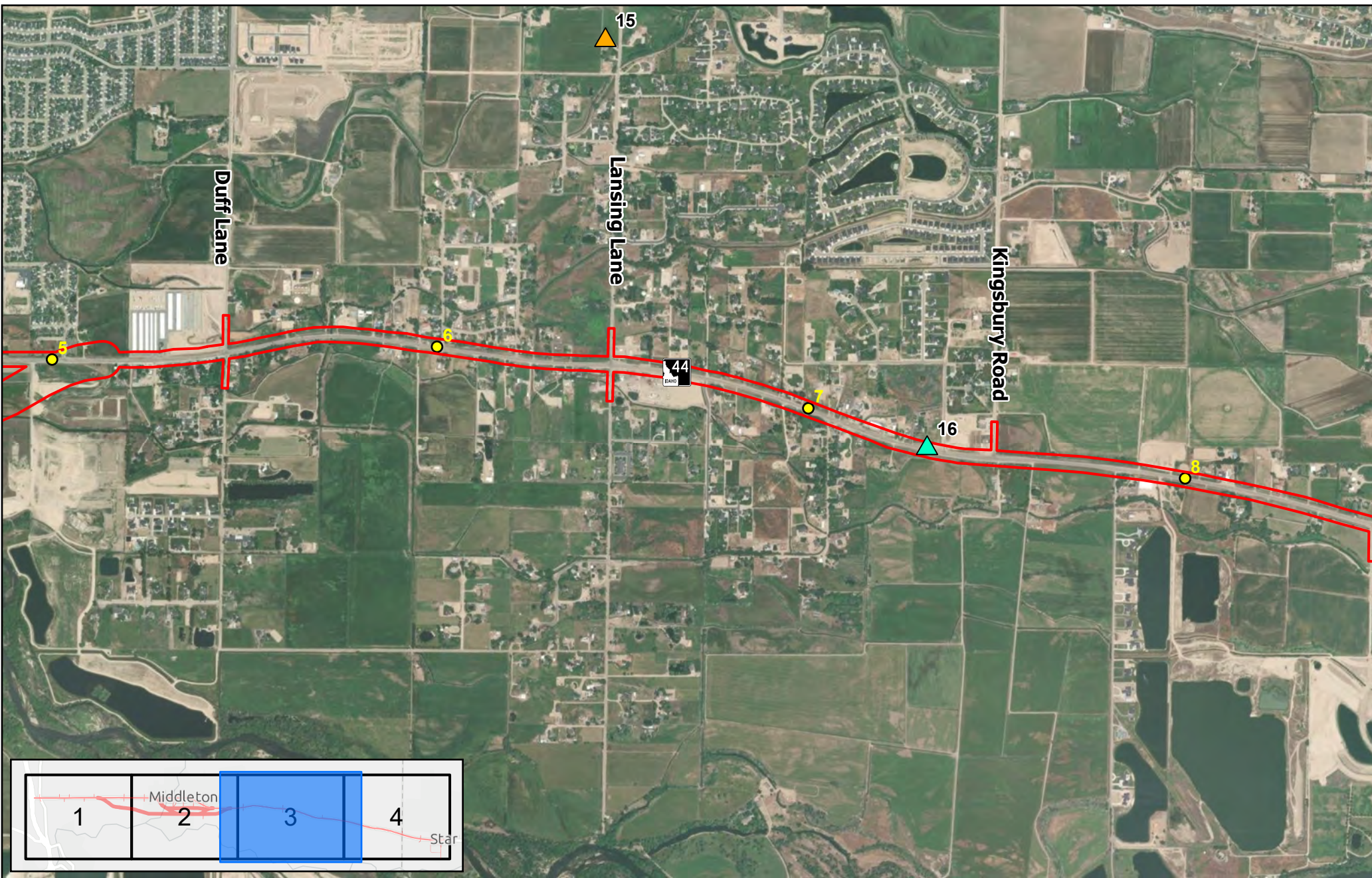
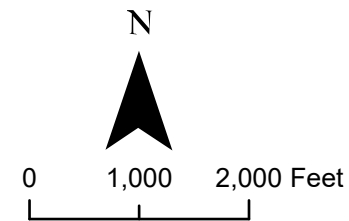


Figure 7-3: Hazardous Material Sites Map for SH-44, I-84 to Star Road PEL Environmental Scan Project No. A023(630), Key No. 23630

Legend

- | | | |
|--------------|-------|-------|
| Project Area | GR | OTHER |
| Mileposts | LUST | RCRA |
| | MULTI | UST |



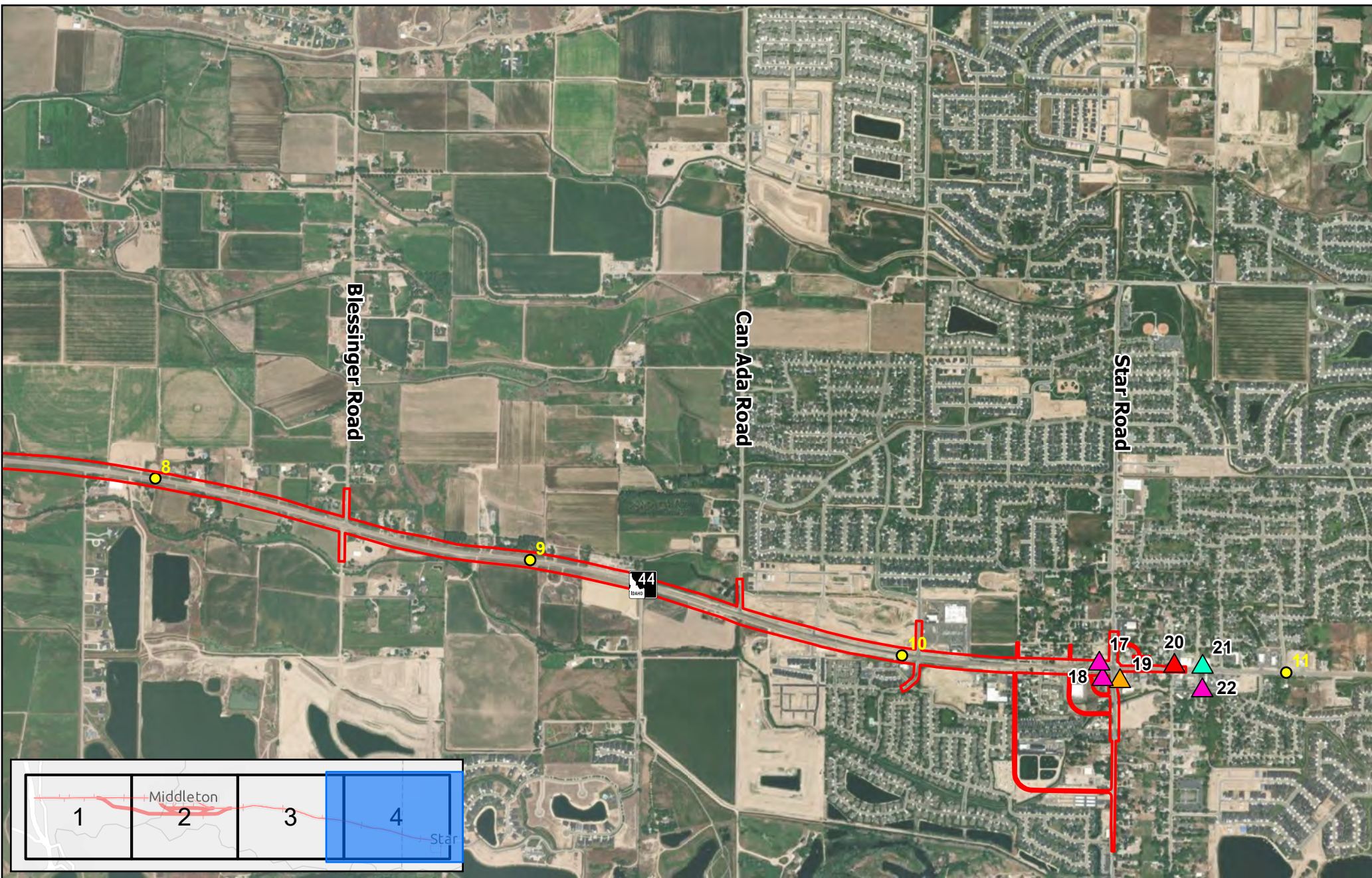
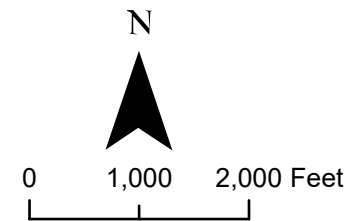


Figure 7-4: Hazardous Material Sites Map for SH-44, I-84 to Star Road PEL Environmental Scan Project No. A023(630), Key No. 23630

Legend

- | | | |
|--------------|-------|-------|
| Project Area | GR | OTHER |
| Mileposts | LUST | RCRA |
| | MULTI | UST |



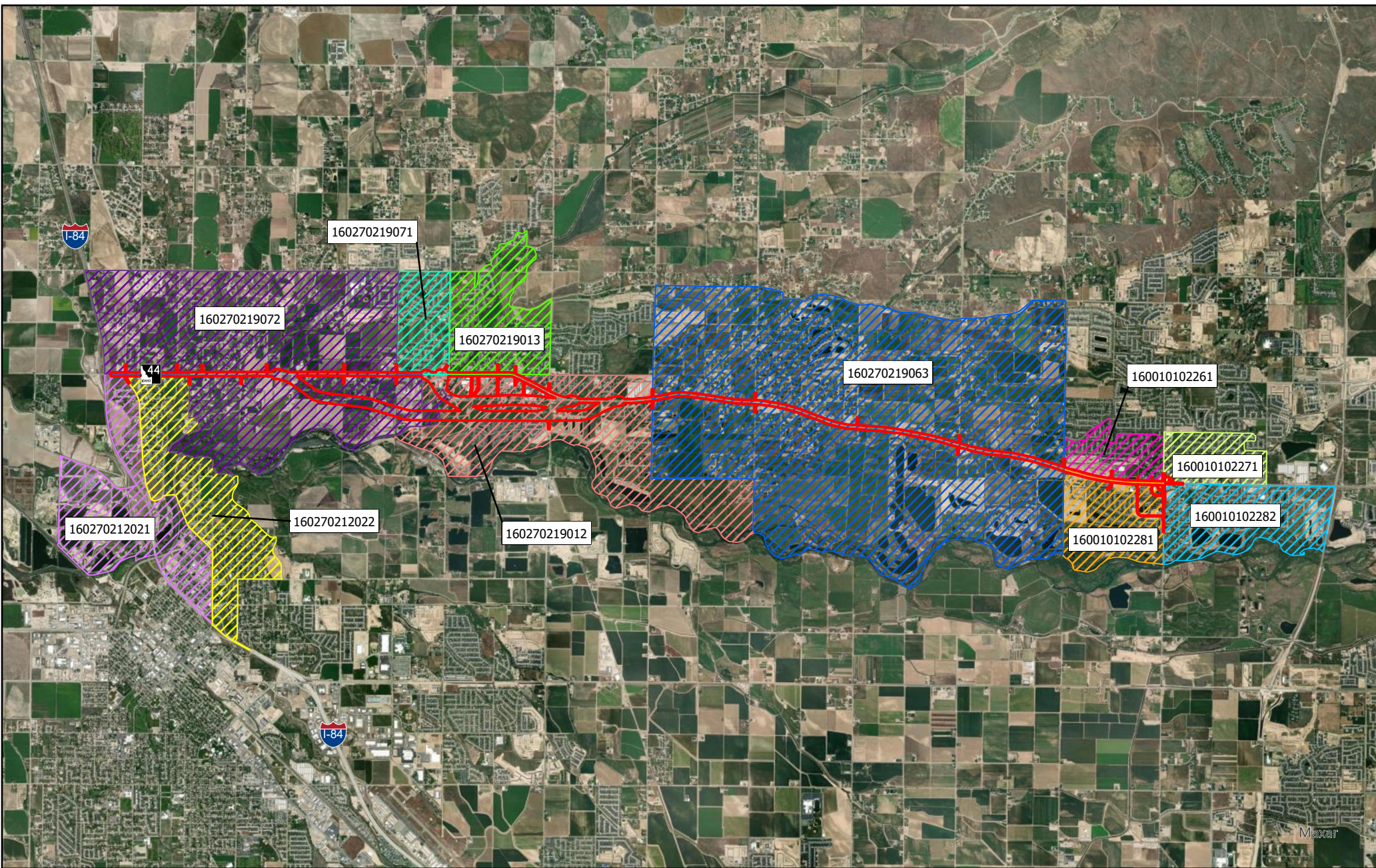
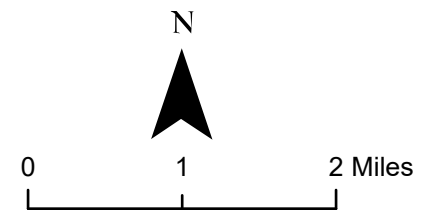


Figure 8-1: Census Blockgroup Map for SH-44, I-84 to Star Road PEL Study Project No. A023(630), Key No. 23630

Legend

- | | | |
|--|---|--|
|  Project Area |  160010102282 |  160270219013 |
|  160010102261 |  160270212021 |  160270219063 |
|  160010102271 |  160270212022 |  160270219071 |
|  160010102281 |  160270219012 |  160270219072 |



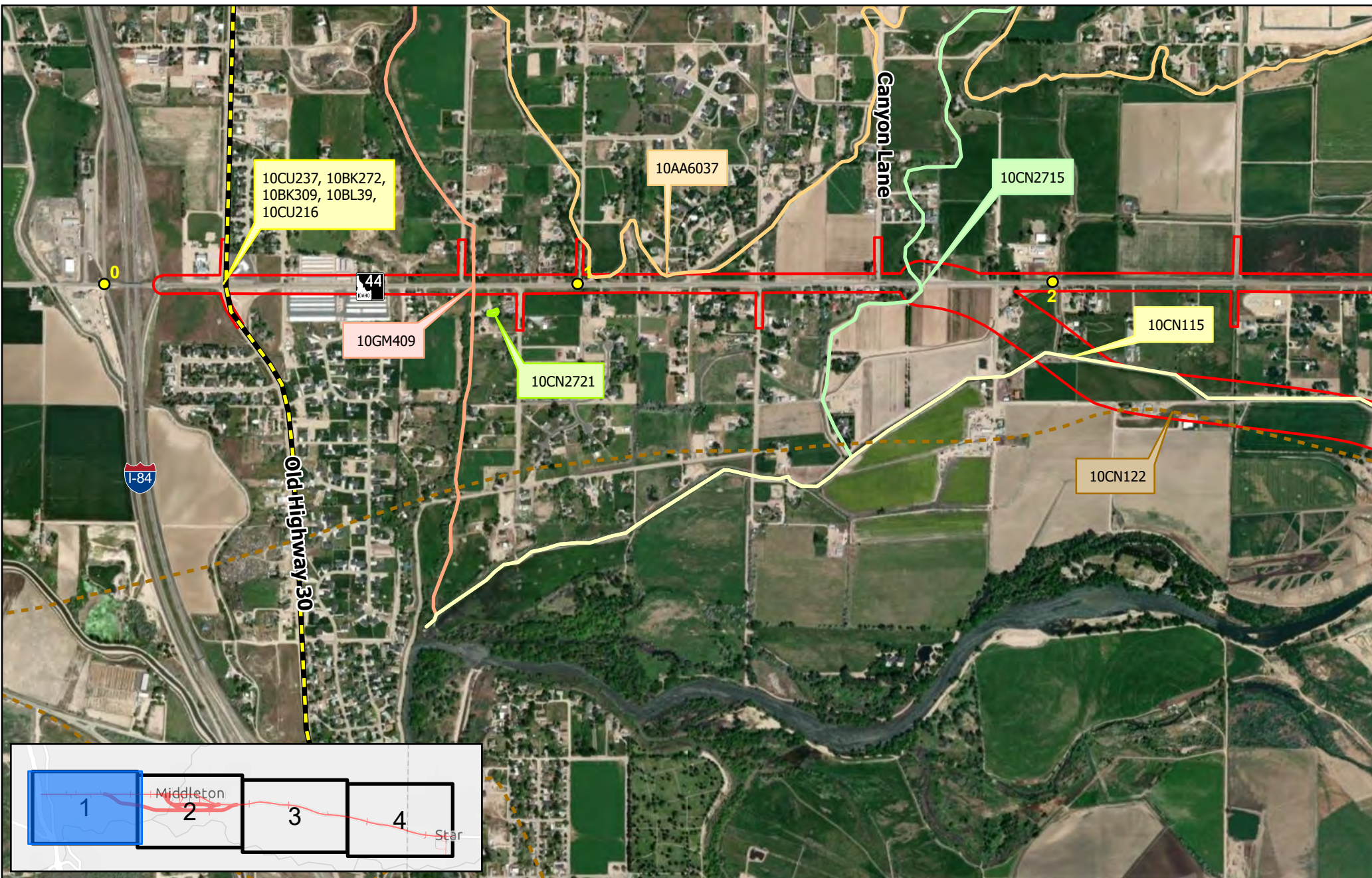


Figure 9-1:
 Eligible and Unevaluated Resources for
 SH-44, I-84 to Star Road PEL
 Environmental Scan
 Project No. A023(630), Key No. 23630

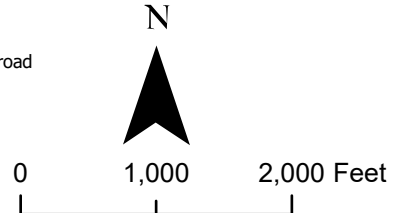
Legend

- Project Area
- Mileposts
- Eligible
- Non-Extant
- Unevaluated

Eligible Linear Resources

- West Hartley Gulch
- Middleton Canal, Middleton Mill Ditch, Canyon Hill Canal
- East Hartley Gulch
- South Middleton Drain
- Canyon Canal
- Middleton Drainage Ditch
- Watkins Ditch
- Mill Slough
- Lawrence Kennedy Canal
- Oregon Trail
- Oregon Trail, Kelton Road, Goodale's Cutoff

- US 30 Highway
- Union Pacific Railroad



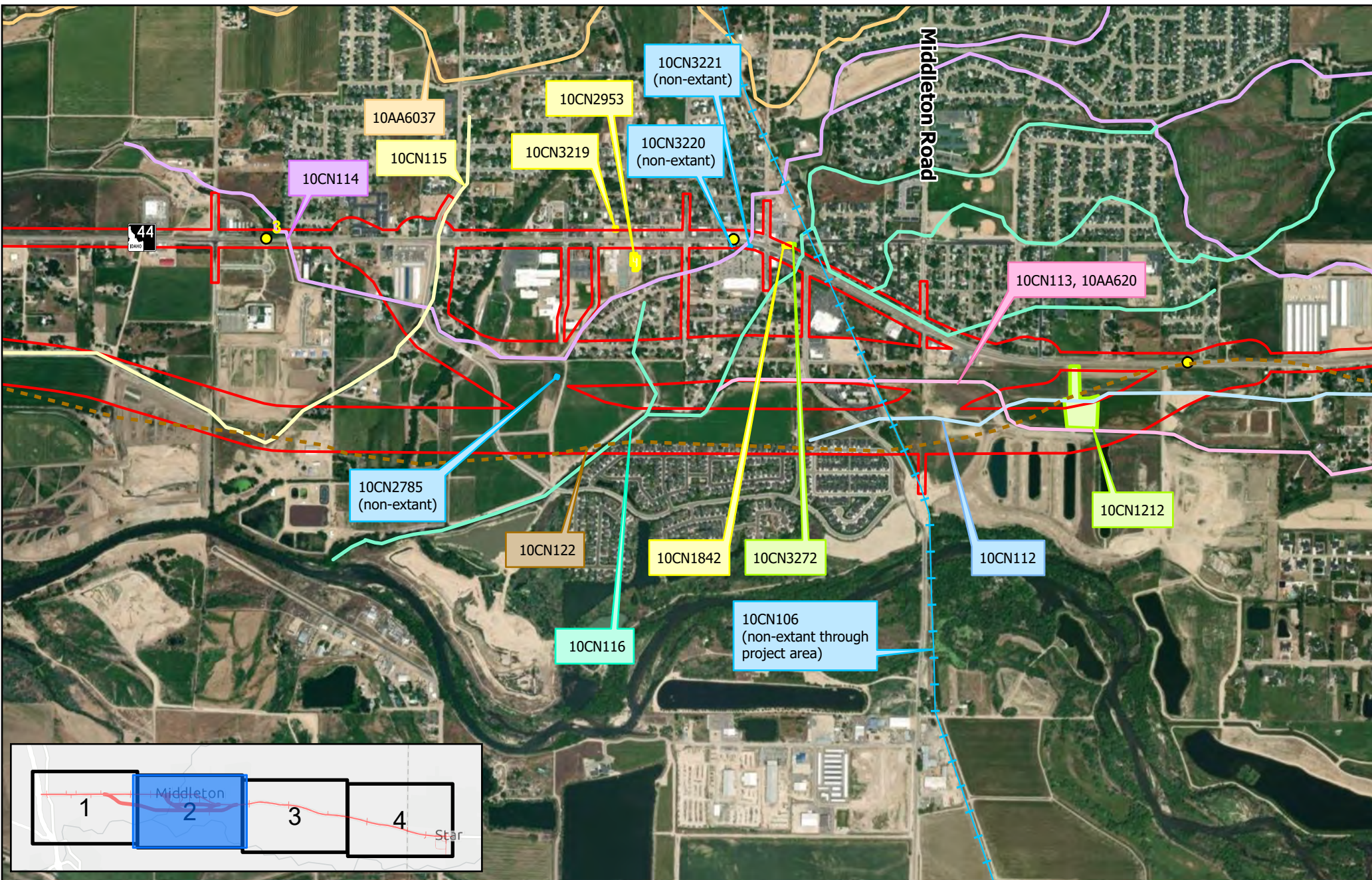


Figure 9-2:
 Eligible and Unevaluated Resources for
 SH-44, I-84 to Star Road PEL
 Environmental Scan
 Project No. A023(630), Key No. 23630

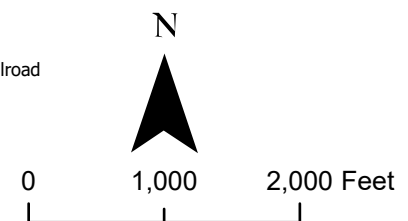
Legend

- Project Area
- Mileposts
- Eligible
- Non-Extant
- Unevaluated

Eligible Linear Resources

- West Hartley Gulch
- Middleton Canal, Middleton Mill Ditch, Canyon Hill Canal
- East Hartley Gulch
- South Middleton Drain
- Canyon Canal
- Middleton Drainage Ditch
- Watkins Ditch
- Mill Slough
- Lawrence Kennedy Canal
- Oregon Trail
- Oregon Trail, Kelton Road, Goodale's Cutoff

- US 30 Highway
- Union Pacific Railroad



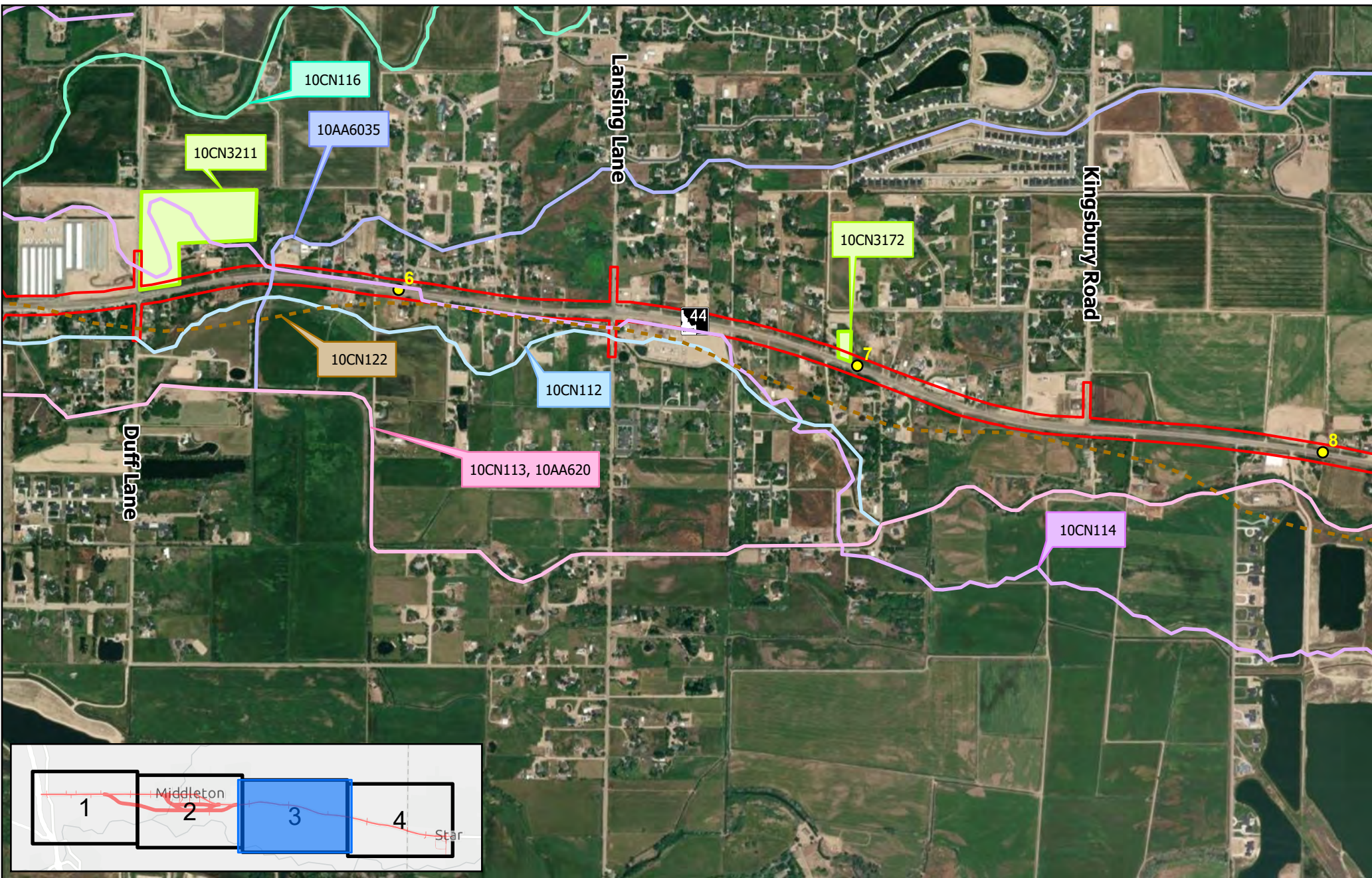


Figure 9-3:
 Eligible and Unevaluated Resources for
 SH-44, I-84 to Star Road PEL
 Environmental Scan
 Project No. A023(630), Key No. 23630

Legend

- Project Area
- Mileposts
- Eligible
- Non-Extant
- Unevaluated

- Eligible Linear Resources**
- West Hartley Gulch
 - Middleton Canal, Middleton Mill Ditch, Canyon Hill Canal
 - East Hartley Gulch
 - South Middleton Drain
 - Canyon Canal

- Middleton Drainage Ditch
- Watkins Ditch
- Mill Slough
- Lawrence Kennedy Canal
- Oregon Trail
- Oregon Trail, Kelton Road, Goodale's Cutoff

- US 30 Highway
- Union Pacific Railroad

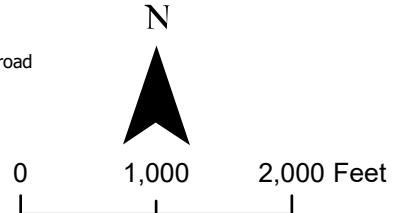




Figure 9-4:
 Eligible and Unevaluated Resources for
 SH-44, I-84 to Star Road PEL
 Environmental Scan
 Project No. A023(630), Key No. 23630

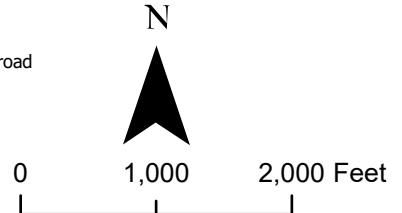
Legend

- Project Area
- Mileposts
- Eligible
- Non-Extant
- Unevaluated

- Eligible Linear Resources**
- West Hartley Gulch
 - Middleton Canal, Middleton Mill Ditch, Canyon Hill Canal
 - East Hartley Gulch
 - South Middleton Drain
 - Canyon Canal

- Middleton Drainage Ditch
- Watkins Ditch
- Mill Slough
- Lawrence Kennedy Canal
- Oregon Trail
- Oregon Trail, Kelton Road, Goodale's Cutoff

- US 30 Highway
- Union Pacific Railroad



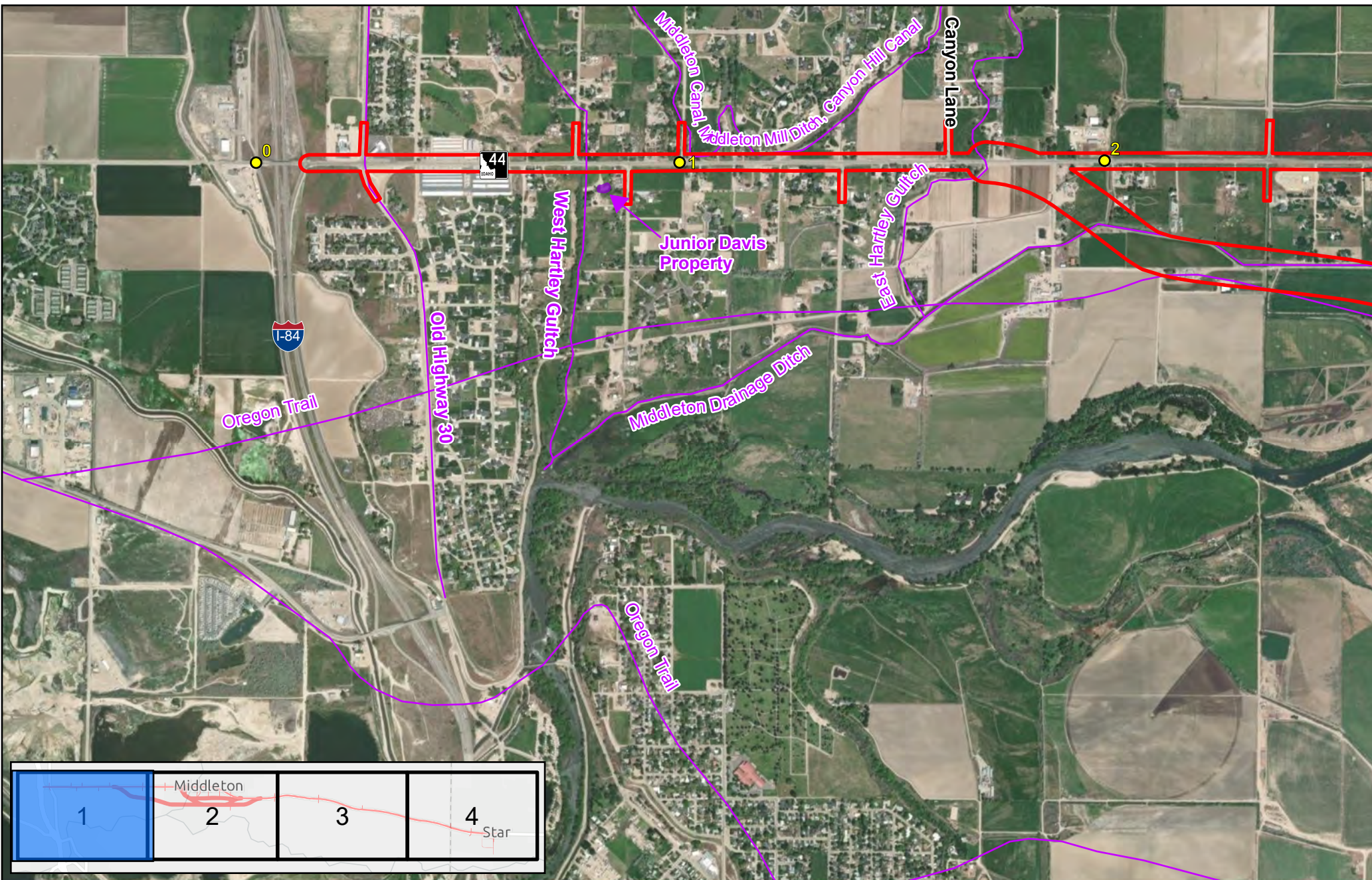
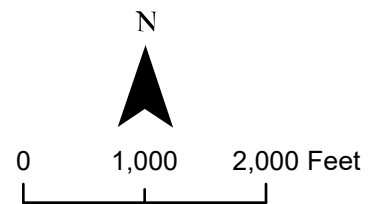


Figure 10-1: Section 4(f) Resources Map for SH-44, I-84 to Star Road PEL Environmental Scan Project No. A023(630), Key No. 23630

Legend

- Project Area
- Historic
- Mileposts
- Park
- Recreation Area



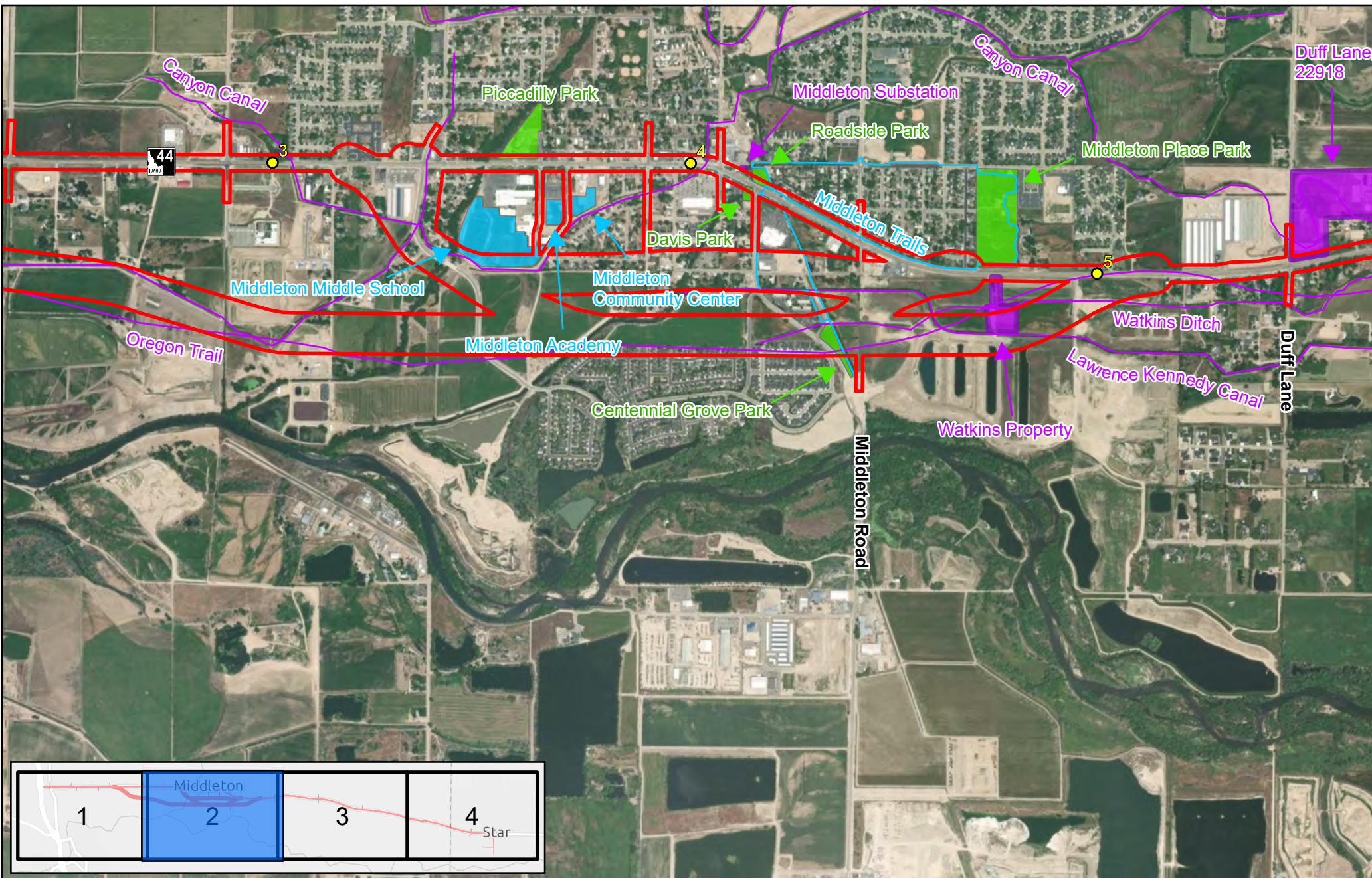
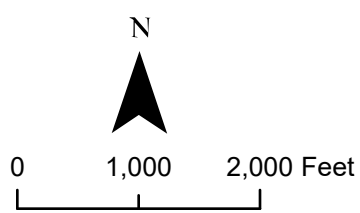


Figure 10-2: Section 4(f) Resources Map for SH-44, I-84 to Star Road PEL Environmental Scan Project No. A023(630), Key No. 23630

Legend

- Project Area
- Historic
- Mileposts
- Park
- Recreation Area



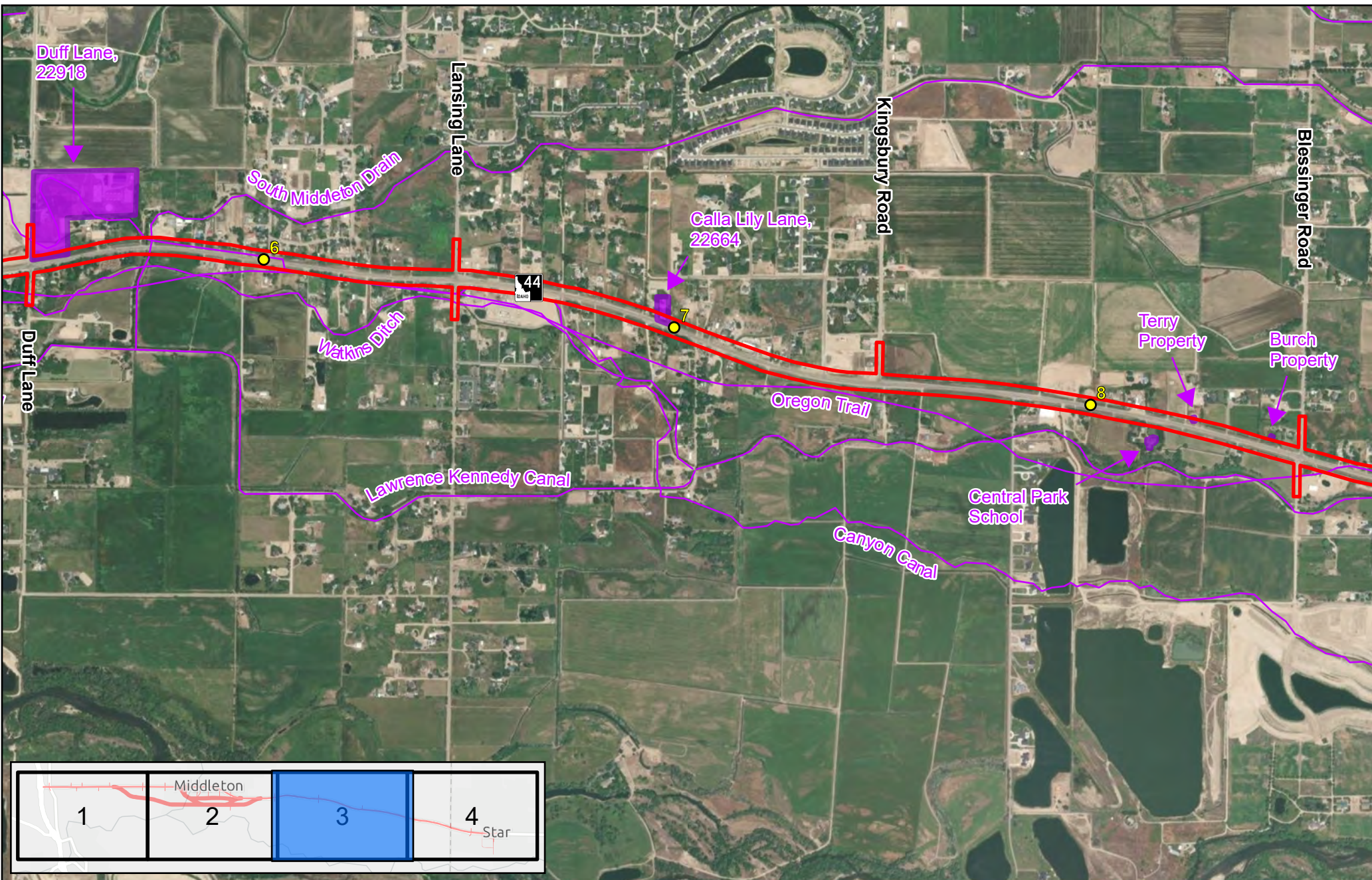
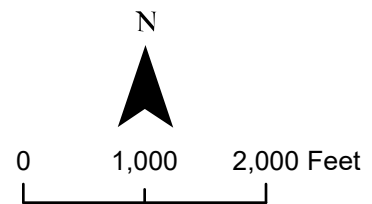


Figure 10-3: Section 4(f) Resources Map for SH-44, I-84 to Star Road PEL Environmental Scan Project No. A023(630), Key No. 23630

Legend

- Project Area
- Historic
- Mileposts
- Park
- Recreation Area



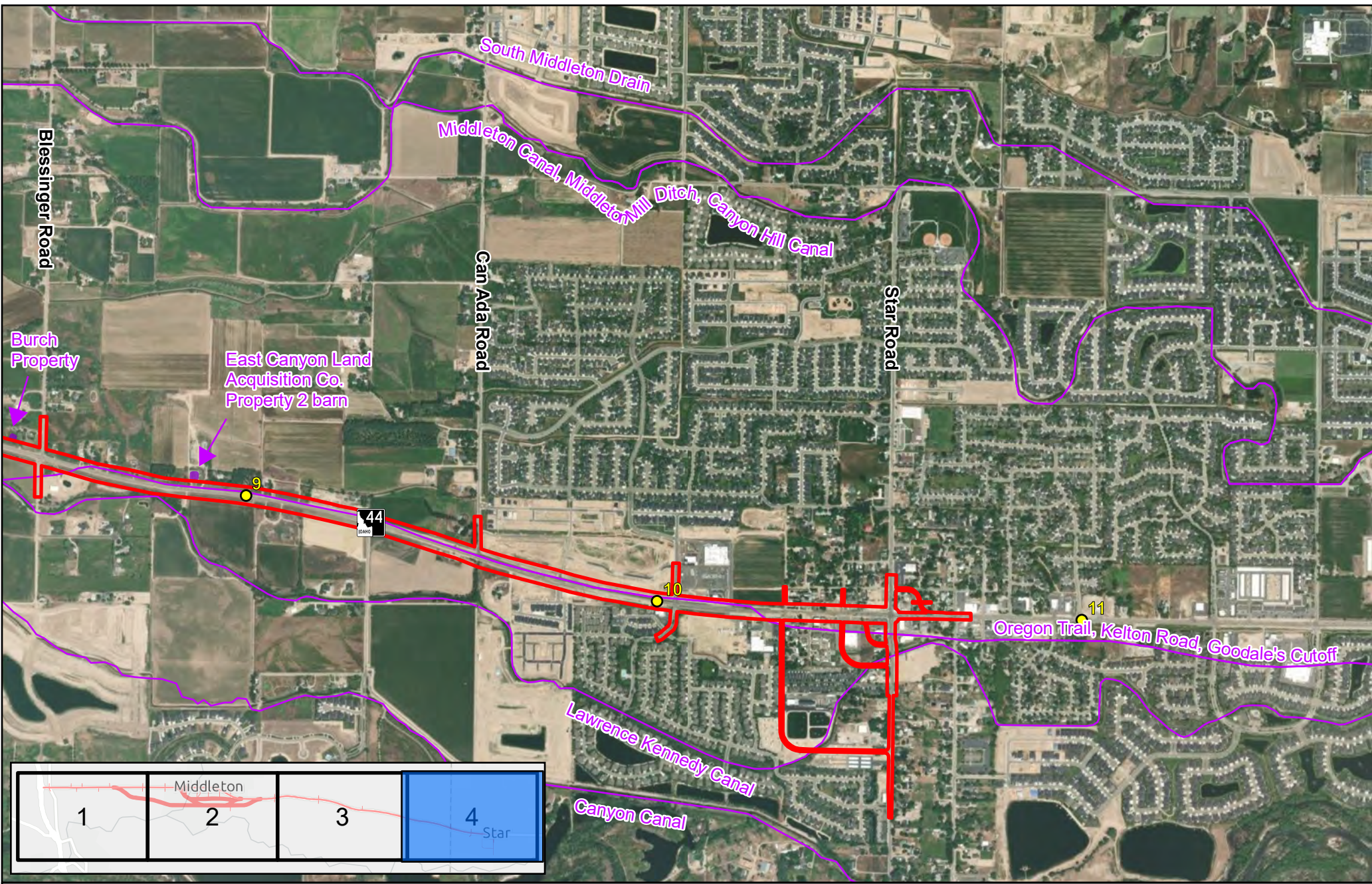
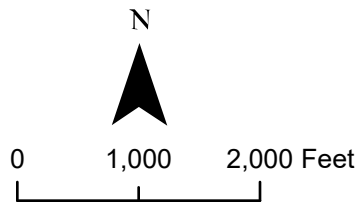


Figure 10-4: Section 4(f) Resources Map for SH-44, I-84 to Star Road PEL Environmental Scan Project No. A023(630), Key No. 23630

Legend

- Project Area
- Historic
- Mileposts
- Park
- Recreation Area



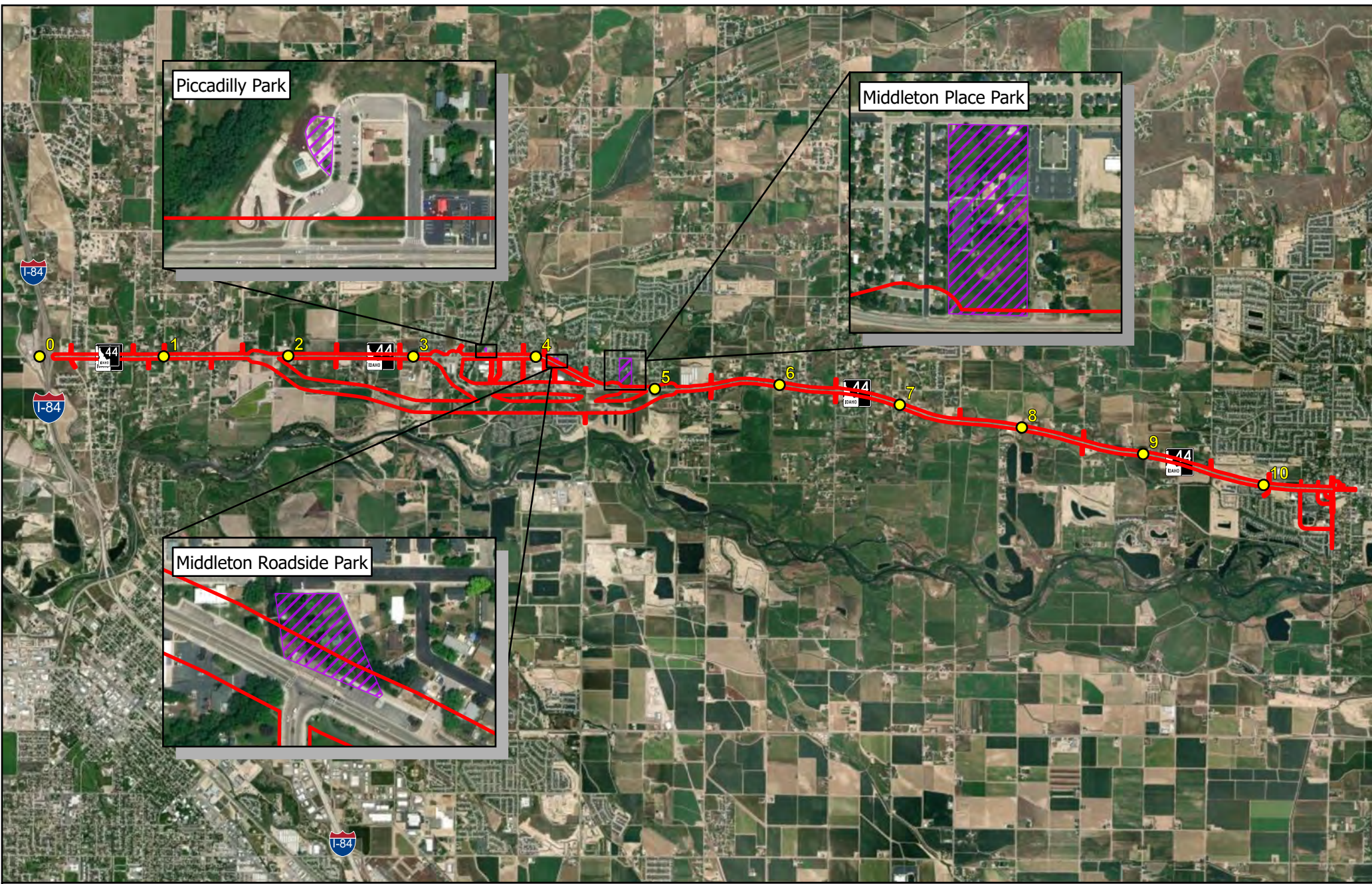
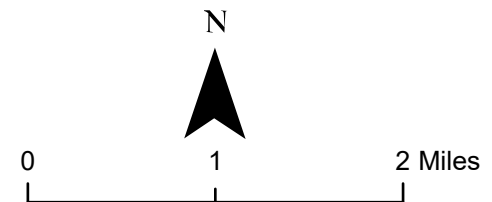


Figure 11-1: Section 6(f) LWCF Map for SH-44, I-84 to Star Road PEL Environmental Scan Project No. A023(630), Key No. 23630

Legend

- Project Area
- Mileposts
- LWCF 6(f)



Appendix B. Supporting Documentation



United States Department of the Interior



FISH AND WILDLIFE SERVICE
Idaho Fish And Wildlife Office
1387 South Vinnell Way, Suite 368
Boise, ID 83709-1657
Phone: (208) 378-5243 Fax: (208) 378-5262

In Reply Refer To:

01/27/2025 23:47:57 UTC

Project Code: 2024-0108630

Project Name: SH-44, I-84 to Star Road PEL

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological

evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<https://www.fws.gov/sites/default/files/documents/endangered-species-consultation-handbook.pdf>

Migratory Birds: In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts, see <https://www.fws.gov/program/migratory-bird-permit/what-we-do>.

The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures, see <https://www.fws.gov/library/collections/threats-birds>.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit <https://www.fws.gov/partner/council-conservation-migratory-birds>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List
- USFWS National Wildlife Refuges and Fish Hatcheries
- Bald & Golden Eagles
- Migratory Birds
- Wetlands

OFFICIAL SPECIES LIST

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Idaho Fish And Wildlife Office
1387 South Vinnell Way, Suite 368
Boise, ID 83709-1657
(208) 378-5243

PROJECT SUMMARY

Project Code: 2024-0108630

Project Name: SH-44, I-84 to Star Road PEL

Project Type: Road/Hwy - New Construction

Project Description: The Idaho Transportation Department (ITD) District 3 office, in consultation with the Federal Highway Administration (FHWA), is completing a PEL Study for SH-44, I-84 to Star Road in Ada and Canyon counties. The PEL study will be conducted in accordance with the Statewide and Metropolitan Planning Regulation 23 CFR 450, the provisions linking planning and National Environmental Policy Act (NEPA) presented in Section 450.318 and Appendix A of 23 CFR 450. The SH-44, I-84 to Star Road PEL is being conducted to identify problem areas and evaluate transportation improvements that will improve travel safety and operations for all transportation modes in the corridor. The study area, shown in the attached maps, contains a mix of land uses adjacent to SH-44 with residential and commercial land uses concentrated in urban areas and agricultural and lower-density residential in the remaining non-urbanized areas of the corridor. The study area consists of SH-44 from I-84 to Star Road, approximately 10 miles in total, through the cities of Middleton and Star. In addition, the study area extends approximately 50-feet from the right-of-way along the existing SH-44 alignment and a 500-foot buffer along new alignments being considered. The PEL study will examine alternatives to address safety, congestion and multimodal connectivity compared to the No Action Alternative. The PEL study will include development and screening of alternatives based on a consideration of Purpose and Need; access, traffic, planning, and environmental factors; the location of community and other developed areas, and public and agency plans and input. Coordination is being conducted with local agencies and other stakeholders in the corridor to gather available data and provide input throughout the study.

Project Location:

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@43.69648925,-116.52953575031941,14z>



Counties: Ada and Canyon counties, Idaho

ENDANGERED SPECIES ACT SPECIES

There is a total of 3 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

-
1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

INSECTS

NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i> There is proposed critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/9743	Proposed Threatened
Suckley"s Cuckoo Bumble Bee <i>Bombus suckleyi</i> Population: No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/10885	Proposed Endangered

FLOWERING PLANTS

NAME	STATUS
Slickspot Peppergrass <i>Lepidium papilliferum</i> Population: There is final critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/4027 General project design guidelines: https://ipac.ecosphere.fws.gov/project/2P6F3OICKVHZTDP7K5NMPVOX2A/documents/generated/7151.pdf	Threatened

CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

USFWS NATIONAL WILDLIFE REFUGE LANDS AND FISH HATCHERIES

Any activity proposed on lands managed by the [National Wildlife Refuge](#) system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS OR FISH HATCHERIES WITHIN YOUR PROJECT AREA.

BALD & GOLDEN EAGLES

Bald and Golden Eagles are protected under the Bald and Golden Eagle Protection Act ² and the Migratory Bird Treaty Act (MBTA) ¹. Any person or organization who plans or conducts activities that may result in impacts to Bald or Golden Eagles, or their habitats, should follow

appropriate regulations and consider implementing appropriate avoidance and minimization measures, as described in the various links on this page.

1. The [Bald and Golden Eagle Protection Act](#) of 1940.
2. The [Migratory Birds Treaty Act](#) of 1918.
3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

There are Bald Eagles and/or Golden Eagles in your [project](#) area.

Measures for Proactively Minimizing Eagle Impacts

For information on how to best avoid and minimize disturbance to nesting bald eagles, please review the [National Bald Eagle Management Guidelines](#). You may employ the timing and activity-specific distance recommendations in this document when designing your project/activity to avoid and minimize eagle impacts. For bald eagle information specific to Alaska, please refer to [Bald Eagle Nesting and Sensitivity to Human Activity](#).

The FWS does not currently have guidelines for avoiding and minimizing disturbance to nesting Golden Eagles. For site-specific recommendations regarding nesting Golden Eagles, please consult with the appropriate Regional [Migratory Bird Office](#) or [Ecological Services Field Office](#).

If disturbance or take of eagles cannot be avoided, an [incidental take permit](#) may be available to authorize any take that results from, but is not the purpose of, an otherwise lawful activity. For assistance making this determination for Bald Eagles, visit the [Do I Need A Permit Tool](#). For assistance making this determination for golden eagles, please consult with the appropriate Regional [Migratory Bird Office](#) or [Ecological Services Field Office](#).

Ensure Your Eagle List is Accurate and Complete

If your project area is in a poorly surveyed area in IPaC, your list may not be complete and you may need to rely on other resources to determine what species may be present (e.g. your local FWS field office, state surveys, your own surveys). Please review the [Supplemental Information on Migratory Birds and Eagles](#), to help you properly interpret the report for your specified location, including determining if there is sufficient data to ensure your list is accurate.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to bald or golden eagles on your list, see the "Probability of Presence Summary" below to see when these bald or golden eagles are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
Bald Eagle <i>Haliaeetus leucocephalus</i> This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1626	Breeds Dec 1 to Aug 31

- Measures for avoiding and minimizing impacts to birds <https://www.fws.gov/library/collections/avoiding-and-minimizing-incident-take-migratory-birds>
- Nationwide avoidance and minimization measures for birds <https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf>
- Supplemental Information for Migratory Birds and Eagles in IPaC <https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action>

MIGRATORY BIRDS

The Migratory Bird Treaty Act (MBTA) ¹ prohibits the take (including killing, capturing, selling, trading, and transport) of protected migratory bird species without prior authorization by the Department of Interior U.S. Fish and Wildlife Service (Service). The incidental take of migratory birds is the injury or death of birds that results from, but is not the purpose, of an activity. The Service interprets the MBTA to prohibit incidental take.

- The [Migratory Birds Treaty Act](#) of 1918.
- The [Bald and Golden Eagle Protection Act](#) of 1940.
- 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

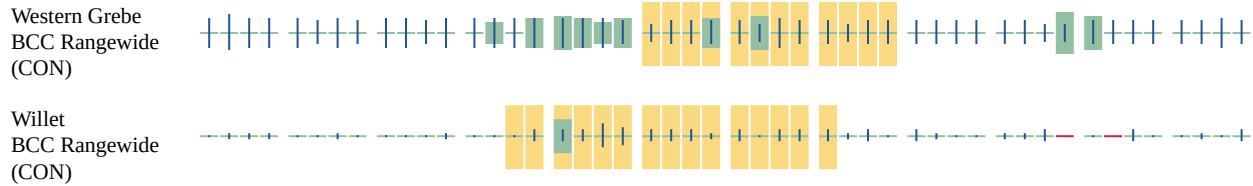
For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, see the "Probability of Presence Summary" below to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
<p>American Avocet <i>Recurvirostra americana</i></p> <p>This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA</p> <p>https://ecos.fws.gov/ecp/species/11927</p>	Breeds Apr 21 to Aug 10
<p>American White Pelican <i>pelecanus erythrorhynchos</i></p> <p>This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA</p> <p>https://ecos.fws.gov/ecp/species/6886</p>	Breeds Apr 1 to Aug 31
<p>Bald Eagle <i>Haliaeetus leucocephalus</i></p> <p>This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.</p> <p>https://ecos.fws.gov/ecp/species/1626</p>	Breeds Dec 1 to Aug 31

NAME	BREEDING SEASON
Bobolink <i>Dolichonyx oryzivorus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9454	Breeds May 20 to Jul 31
California Gull <i>Larus californicus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/10955	Breeds Mar 1 to Jul 31
Calliope Hummingbird <i>Selasphorus calliope</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9526	Breeds May 1 to Aug 15
Cassin's Finch <i>Haemorhous cassinii</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9462	Breeds May 15 to Jul 15
Clark's Grebe <i>Aechmophorus clarkii</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/10575	Breeds Jun 1 to Aug 31
Evening Grosbeak <i>Coccothraustes vespertinus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9465	Breeds May 15 to Aug 10
Forster's Tern <i>Sterna forsteri</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/11953	Breeds Mar 1 to Aug 15
Franklin's Gull <i>Leucophaeus pipixcan</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/10567	Breeds May 1 to Jul 31
Golden Eagle <i>Aquila chrysaetos</i> This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1680	Breeds Jan 1 to Aug 31
Lesser Yellowlegs <i>Tringa flavipes</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9679	Breeds elsewhere

NAME	BREEDING SEASON
<p>Lewis's Woodpecker <i>Melanerpes lewis</i></p> <p>This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p> <p>https://ecos.fws.gov/ecp/species/9408</p>	Breeds Apr 20 to Sep 30
<p>Long-eared Owl <i>asio otus</i></p> <p>This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p> <p>https://ecos.fws.gov/ecp/species/3631</p>	Breeds Mar 1 to Jul 15
<p>Marbled Godwit <i>Limosa fedoa</i></p> <p>This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p> <p>https://ecos.fws.gov/ecp/species/9481</p>	Breeds elsewhere
<p>Northern Harrier <i>Circus hudsonius</i></p> <p>This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA</p> <p>https://ecos.fws.gov/ecp/species/8350</p>	Breeds Apr 1 to Sep 15
<p>Olive-sided Flycatcher <i>Contopus cooperi</i></p> <p>This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p> <p>https://ecos.fws.gov/ecp/species/3914</p>	Breeds May 20 to Aug 31
<p>Pectoral Sandpiper <i>Calidris melanotos</i></p> <p>This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p> <p>https://ecos.fws.gov/ecp/species/9561</p>	Breeds elsewhere
<p>Rufous Hummingbird <i>Selasphorus rufus</i></p> <p>This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p> <p>https://ecos.fws.gov/ecp/species/8002</p>	Breeds Apr 15 to Jul 15
<p>Sage Thrasher <i>Oreoscoptes montanus</i></p> <p>This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA</p> <p>https://ecos.fws.gov/ecp/species/9433</p>	Breeds Apr 15 to Aug 10
<p>Western Grebe <i>aechmophorus occidentalis</i></p> <p>This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p> <p>https://ecos.fws.gov/ecp/species/6743</p>	Breeds Jun 1 to Aug 31
<p>Willet <i>Tringa semipalmata</i></p> <p>This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p> <p>https://ecos.fws.gov/ecp/species/10669</p>	Breeds Apr 20 to Aug 5





Additional information can be found using the following links:

- Eagle Management <https://www.fws.gov/program/eagle-management>
- Measures for avoiding and minimizing impacts to birds <https://www.fws.gov/library/collections/avoiding-and-minimizing-incident-take-migratory-birds>
- Nationwide avoidance and minimization measures for birds
- Supplemental Information for Migratory Birds and Eagles in IPaC <https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action>

WETLANDS

Impacts to [NWI wetlands](#) and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local [U.S. Army Corps of Engineers District](#).

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

FRESHWATER EMERGENT WETLAND

- PEM1Fx
- PEM1Cx
- PEM1K

RIVERINE

- R5UBFx
- R4SBCx
- R5UBH
- R2UBHx

FRESHWATER POND

- PUBHx

IPAC USER CONTACT INFORMATION

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LEAD AGENCY CONTACT INFORMATION

Lead Agency: Federal Highway Administration



Idaho Department of Fish and Game

Please note: The quantity and quality of data collected by the Idaho Department of Fish and Game (IDFG) are dependent on the research and observations of many individuals and organizations. In most cases, these data are not the result of comprehensive or site-specific field surveys; many natural areas in Idaho have never been thoroughly surveyed. For these reasons, IDFG cannot provide a definitive statement on the presence, absence, or condition of biological elements in any part of Idaho. IDFG reports summarize the existing information known to the IDFG at the time of the request regarding the biological elements or locations in question. They should never be regarded as final statements on the elements or areas being considered, nor should they be substituted for on-site surveys required for environmental assessments.

The contents of this document are for informational use only and not to be used in place of official consultation from the Idaho Department of Fish and Game.

Species Occurrences

i Category: ESA species only Observed (👁) species only SWAP Species:

Endangered Species 1

Please note that the information in this section may not be used in place of official consultation for threatened and/or endangered species from the US Fish and Wildlife Service.

Monarch *Danaus plexippus*

Category: Invertebrate
 ESA Status: Candidate
 SWAP Species: SGCN
 State Rank: S2
 Global Rank: G4

SWAP Species 45

American Bittern *Botaurus lentiginosus*

Category: Bird
 SWAP Species: SGCN
 State Rank: S1B
 Global Rank: G5

Black Rosy-Finch *Leucosticte atrata*

Category: Bird
 SWAP Species: SGCN
 State Rank: S2
 Global Rank: G4

Bobolink *Dolichonyx oryzivorus*

Category: Bird
 SWAP Species: SGCN
 State Rank: S2B

Global Rank: G5

Brewer's Sparrow *Spizella breweri*

Category: Bird
SWAP Species: SGCN
State Rank: S4B
Global Rank: G5

Burrowing Owl *Athene cunicularia*

Category: Bird
SWAP Species: SGCN
State Rank: S2B
Global Rank: G4

California Gull *Larus californicus*

Category: Bird
SWAP Species: SGCN
State Rank: S3B, S2N
Global Rank: G5

Caspian Tern *Hydroprogne caspia*

Category: Bird
SWAP Species: SGCN
State Rank: S1B
Global Rank: G5

Cassin's Finch *Haemorhous cassinii*

Category: Bird
SWAP Species: SGCN
State Rank: S4
Global Rank: G5

Cinnamon Teal *Anas cyanoptera*

Category: Bird
SWAP Species: SGCN
State Rank: S4B
Global Rank: G5

Common Gartersnake *Thamnophis sirtalis*

Category: Reptile
SWAP Species: SGCN
State Rank: S4
Global Rank: G5

Common Loon *Gavia immer*

Category: Bird
SWAP Species: SGCN
State Rank: S1B,S2N
Global Rank: G5

Common Nighthawk *Chordeiles minor*

Category: Bird
SWAP Species: SGCN
State Rank: S4B
Global Rank: G5

Eared Grebe *Podiceps nigricollis*

Category: Bird
SWAP Species: SGCN
State Rank: S1N,S2B
Global Rank: G5

Ferruginous Hawk *Buteo regalis*

Category: Bird
SWAP Species: SGCN
State Rank: S3B
Global Rank: G4

Franklin's Gull *Leucophaeus pipixcan*

Category: Bird
SWAP Species: SGCN
State Rank: S3B
Global Rank: G5

Gillette's Checkerspot *Euphydryas gillettii*

Category: Invertebrate
SWAP Species: SGCN
State Rank: S2
Global Rank: G3

Golden Eagle *Aquila chrysaetos*

Category: Bird
SWAP Species: SGCN
State Rank: S3
Global Rank: G5

Grasshopper Sparrow *Ammodramus savannarum*

Category: Bird
SWAP Species: SGCN
State Rank: S3B
Global Rank: G5

Gray-crowned Rosy-Finch *Leucosticte tephrocotis*

Category: Bird
SWAP Species: SGCN
State Rank: S4
Global Rank: G5

Great Gray Owl *Strix nebulosa*

Category: Bird
SWAP Species: SGCN
State Rank: S3
Global Rank: G5

Hoary Bat *Lasiurus cinereus*

Category: Mammal
SWAP Species: SGCN
State Rank: S3
Global Rank: G3G4

Lewis's Woodpecker *Melanerpes lewis*

Category: Bird
SWAP Species: SGCN
State Rank: S3B
Global Rank: G4

Little Brown Myotis *Myotis lucifugus*

Category: Mammal
SWAP Species: SGCN
State Rank: S3
Global Rank: G3

Loggerhead Shrike *Lanius ludovicianus*

Category: Bird
SWAP Species: SGCN
State Rank: S3
Global Rank: G4

Long-billed Curlew *Numenius americanus*

Category: Bird
SWAP Species: SGCN
State Rank: S2B
Global Rank: G5

Morrison's Bumble Bee *Bombus morrisoni*

Category: Invertebrate
SWAP Species: SGCN
State Rank: S4
Global Rank: G3

Mountain Whitefish *Prosopium williamsoni*

Category: Fish
SWAP Species: SGCN
State Rank: S5
Global Rank: G5

Northern Leopard Frog *Lithobates pipiens*

Category: Amphibian
SWAP Species: SGCN
State Rank: S2
Global Rank: G5

Northern Pintail *Anas acuta*

Category: Bird
SWAP Species: SGCN
State Rank: S4B,S4N
Global Rank: G5

Ring-billed Gull *Larus delawarensis*

Category: Bird
SWAP Species: SGCN
State Rank: S2B,S2N
Global Rank: G5

Sage Thrasher *Oreoscoptes montanus*

Category: Bird
SWAP Species: SGCN
State Rank: S3B
Global Rank: G4

Sagebrush Sparrow *Artemisiospiza nevadensis*

Category: Bird
SWAP Species: SGCN
State Rank: S3B
Global Rank: G5

Sandhill Crane *Grus canadensis*

Category: Bird
SWAP Species: SGCN
State Rank: S3B
Global Rank: G5

Short-eared Owl *Asio flammeus*

Category: Bird
SWAP Species: SGCN
State Rank: S3
Global Rank: G5

Silver-haired Bat *Lasionycteris noctivagans*

Category: Mammal
SWAP Species: SGCN
State Rank: S3
Global Rank: G3G4

Suckley's Cuckoo Bumble Bee *Bombus suckleyi*

Category: Invertebrate
SWAP Species: SGCN
State Rank: S2
Global Rank: G2G3

Townsend's Big-eared Bat *Corynorhinus townsendii*

Category: Mammal
SWAP Species: SGCN
State Rank: S3
Global Rank: G4

Trumpeter Swan *Cygnus buccinator*

Category: Bird
SWAP Species: SGCN
State Rank: S1B,S4N
Global Rank: G4

Western Bumble Bee *Bombus occidentalis*

Category: Invertebrate
SWAP Species: SGCN
State Rank: S3
Global Rank: G4

Western Pearlshell *Margaritifera falcata*

Category: Invertebrate
SWAP Species: SGCN
State Rank: S2
Global Rank: G5

Western Small-footed Myotis *Myotis ciliolabrum*

Category: Mammal
SWAP Species: SGCN
State Rank: S3
Global Rank: G5

Western Toad *Anaxyrus boreas*

Category: Amphibian
SWAP Species: SGCN
State Rank: S2
Global Rank: G4

Woodhouse's Toad *Anaxyrus woodhousii*

Category: Amphibian
SWAP Species: SGCN
State Rank: S2
Global Rank: G5

Yellow Bumble Bee *Bombus fervidus*

Category: Invertebrate
SWAP Species: SGCN
State Rank: S5
Global Rank: G3G4

Yuma Myotis *Myotis yumanensis*

Category: Mammal
SWAP Species: SGCN
State Rank: S3
Global Rank: G5