



BEST MANAGEMENT PRACTICES FOR THE CLEAN WATER ACT SPATIAL DATA STANDARD



A hillside gravel road in Western Oregon forest with culverts. Photo provided by NW Oregon District, OR/WA BLM

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1. GENERAL INFORMATION

Dataset (Theme) Name: Best Management Practices (Clean Water Act)

Dataset (Feature Class): BMP_CWA_W_FISH_HAB_PT, BMP_CWA_W_FISH_PASS_PT, BMP_CWA_W_HARV_AERIAL_PT, BMP_CWA_W_HARV_GROUND_PT, BMP_CWA_W_REC_PT, BMP_CWA_W_ROADS_PT

1.1 ROLES AND RESPONSIBILITIES

Roles	Responsibilities
State Data Steward(s)	The State Data Steward is responsible for approving data standards and business rules, developing Quality Assurance/Quality Control procedures, identifying potential privacy issues, and ensuring that data is managed as a corporate resource. The State Data Steward coordinates with field office data stewards, the state data administrator, Geographic Information System (GIS) coordinators, and national data stewards. The State Data Steward also reviews geospatial metadata for completeness and quality.
GIS Technical Lead	The GIS Technical Lead works with data stewards to convert business needs into GIS applications and derive data requirements and participates in the development of data standards. The GIS Technical Lead coordinates with system administrators and GIS coordinators to manage the GIS databases. The GIS Technical Lead works with data editors to make sure data is being input into the enterprise Spatial Database Engine (SDE) database consistently and in accordance with the established data standard. The GIS Technical Lead provides technical assistance and advice on GIS analysis, query and display of the dataset.
State Data Administrator	The State Data Administrator provides information management leadership, data modeling expertise, and custodianship of the state data models. The State Data Administrator ensures that defined processes for development of data standards and metadata are followed, and that they are consistent and complete. The State Data Administrator is responsible for making data standards and metadata accessible to all users. The State Data Administrator also coordinates with data stewards and GIS coordinators to respond to national spatial data requests.
State Records Administrator	The State Records Administrator assists the State Data Steward to identify any privacy issues related to spatial data. The State Records Administrator also provides direction and guidance on data release and fees. The State Records Administrator also ensures that data has been classified under the proper records retention schedule and determines appropriate Freedom of Information Act (FOIA) category.

Table 1 Role and Responsibilities

Current personnel assigned these Roles, can be found at the following link:

<https://www.blm.gov/about/data/oregon-data-management>

1.2 FOIA CATEGORY

Public

1.3 RECORDS RETENTION SCHEDULE

The Department Records Schedule/General Records Schedule/Bureau of Land Management (DRS/GRS/BLM) Combined Records Schedule under Schedule 20/52a3 (Electronic Records/Geographic Information Systems) lists this theme as one of the system-centric themes that are significant for BLM's mission that must be permanently retained.

"PERMANENT. Cutoff at the end of each Fiscal Year (FY), or, when significant changes and additions have been made, before and after the change. Use BLM 20/52a. Transfer to the National Archives every three years after cutoff. Under the instruction in 36 CFR 1235.44-50, or whichever guidance is in place at the time of the transfer. Submissions are full datasets and are in addition to, not replacements, of earlier submissions."

Oregon/Washington (OR/WA) BLM Guidebook for Management of Geospatial Data (v1) Section 15.2 - Corporate Data Online Archives prescribes:

"Vector annual archives are retained online for 12 years. Each year, data that has reached 12 years old is copied off-line, to be retained until no longer needed (determined by data stewards and program leads), with format and readability maintained in a five (5) year "tech refresh" update cycle."

1.4 SECURITY/ACCESS/SENSITIVITY

The Best Management Practices for the Clean Water Act (BMP_CWA) set of themes do not require any additional security other than that provided by the General Support System (the hardware/software infrastructure of the OR/WA BLM).

This dataset is not sensitive and there are no restrictions on access to this data either from within the BLM or external to the BLM. This dataset falls under the standard Records Access Category 1A-Public Data.

There are or no privacy issues or concerns associated with these data themes.

1.5 KEYWORDS

Keywords used to locate this dataset include (thesaurus):

- BLM Thesaurus: Management, Hydrography, Soils, Fish, Forestry, Recreation, Transportation
- International Organization for Standardization (ISO) Thesaurus: Biota, environment, inlandWaters, transportation
- Additional keywords: Clean Water Act, Best Management Practices, Disturbance

1.6 SUBJECT FUNCTION CODES

BLM Subject Function codes that can be used to describe this dataset include:

1283 - Data Administration
7000 – Soil, Water, and Air Management
9167 – Geography and Mapping

2. DATASET OVERVIEW

2.1 DESCRIPTION

The BMP_CWA datasets represents spatial location and basic information about Clean Water Act Best Management Practices. Practices are activities, practices, or procedures that are implemented as part of an action to reduce or eliminate nonpoint source pollution to aquatic systems. According to the Environmental Protection Agency (EPA), Best Management Practices are “a practice or combination of practices considered by a State [or authorized Tribe] to be the most effective means (including technological, economic and institutional considerations) of preventing or reducing the amount of pollution by nonpoint sources to a level compatible with water quality goals.” (40 CFR 130.2(Q))

The BLM monitors the implementation of BMP as specified in RMP to gain a better understanding as to whether or not the BMP are implemented as intended and if they are they effective. The BLM will analyze this dataset to determine where the BLM needs to provide training and support to the District and Field Office staff so that BMP are implemented properly. Additionally, this data will help identify BMP that may need to be revised or eliminated if they are not meeting the desired outcome or if they are unnecessary.

The BMP_CWA datasets are a sub-class of the Oregon Data Framework Sample Points dataset theme. For ease of maintaining data in OR/WA edit environment, these data are presented as a separate dataset from other sample point data types.

This data standard includes the following feature classes each of which reference the BMP lists as discussed in Appendix C of the Northwestern and Coastal Oregon Record of Decision (ROD)/Resource Management Plan (RMP) and the Southwestern Oregon ROD/RMP:

- BMP_CWA_W_FISH_HAB_PT– BMP related to aquatic habitat improvement activities.
- BMP_CWA_W_FISH_PASS_PT – BMP related to aquatic organism passage enhancement activities.
- BMP_CWA_W_HARV_AERIAL_PT – BMP related to aerial timber harvest activities.
- BMP_CWA_W_HARV_GROUND_PT – BMP related to ground timber harvest activities.
- BMP_CWA_W_REC_PT – BMP related to recreation construction and maintenance activities.

- BMP_CWA_W_ROADS_PT – BMP related to road construction and maintenance activities.

2.2 USAGE

The BMP_CWA monitoring datasets are the BLM corporate repository for all BMP monitoring that pertains to water quality. BMP are activities, practices, or procedures that are implemented as part of an action to reduce or eliminate pollution to aquatic systems. The BLM monitors the implementation of BMP to gain a better understanding as to whether or not the BMP are implemented as intended and if they are they effective. The BLM will analyze this dataset to determine where the BLM needs to provide training and support to the District and Field Office staff so that BMP are implemented properly. Additionally, this data will help identify BMP that may be need to be revised or eliminated if they are not meeting the desired outcome or if they are unnecessary.

2.3 SPONSOR/AFFECTED PARTIES

The sponsor for this data set is the Deputy State Director for the Division of Resources, Lands, Minerals, and Fire.

2.4 RELATIONSHIP TO OTHER DATASETS, DATABASES or FILES

The BMP_CWA monitoring datasets are a sub-class of the OR/WA Sample Points dataset. In addition to the geometry type and core attributes inherited from Sample Points, the BMP_CWA datasets contain additional attributes specific to the BMP_CWA datasets. These additional attributes reference core activities with BMP as referenced in the Northwestern and Coastal Oregon ROD/RMP and the Southwestern Oregon ROD/RMP. The core activities relate directly to water quality standards and regulations.

2.5 DATA CATEGORY/ARCHITECTURE LINK

These data themes are a portion of the Oregon Data Framework (ODF). The ODF utilizes the concept of inheritance to define specific instances of data. All OR/WA resource-related data are divided into three general categories: Activities, Resources, and Boundaries. These general categories are broken into sub-categories that inherit spatial characteristics and attributes from their parent category. These sub-categories may be further broken into more specific groups until the basic data set that cannot be further sub-divided. Those basic data sets inherit all characteristics of all groups/categories above them. The basic data sets are where physical data gets populated (those groups/categories above them do not contain actual data, but set parameters that all data of that type must follow). See the ODF Overview (figure 2) for a simplified schematic of the entire ODF showing the overall organization and entity inheritance. The BMP entities are highlighted. For additional information about the ODF, contact the [State Data Administrator](#). The State Data Administrator's contact information can be found at the following link: <https://www.blm.gov/about/data/oregon-data-management>.

In the ODF, BMP_CWA is considered an activity and categorized as follows:

ODF

 Activities

 Sampling

 Sample Points

Best Management Practices (Clean Water Act)
BMP_CWA_W_FISH_HAB_PT
BMP_CWA_W_FISH_PASS_PT
BMP_CWA_W_HARV_AERIAL_PT
BMP_CWA_W_HARV_GROUND_PT
BMP_CWA_W_REC_PT
BMP_CWA_W_ROADS_PT

Figure 1 provides a graphic representation of the entities and hierarchical relationships.

2.6 RELATIONSHIP TO THE DEPARTMENT OF THE INTERIOR ENTERPRISE ARCHITECTURE - DATA RESOURCE MODEL

The Department of the Interior (DOI) Enterprise Architecture contains a component called the Data Resource Model. This model addresses the concepts of data sharing, data description, and data context. This data standard provides information needed to address each of those areas. Data sharing is addressed through complete documentation and simple data structures, which make sharing easier. Data description is addressed through the section on Attribute Descriptions. Data context is addressed through the data organization and structure portions of this document. In addition, the DOI Data Resource Model categorizes data by use of standardized Data Subject Areas and Information Classes. For this data set, the Data Subject Area and Information Class are:

- Data Subject Area: Geospatial
- Information Class: Location

Remainder of page left intentionally blank.

2.7 BEST MANAGEMENT PRACTICES (CLEAN WATER ACT) DATA ORGANIZATION / STRUCTURE

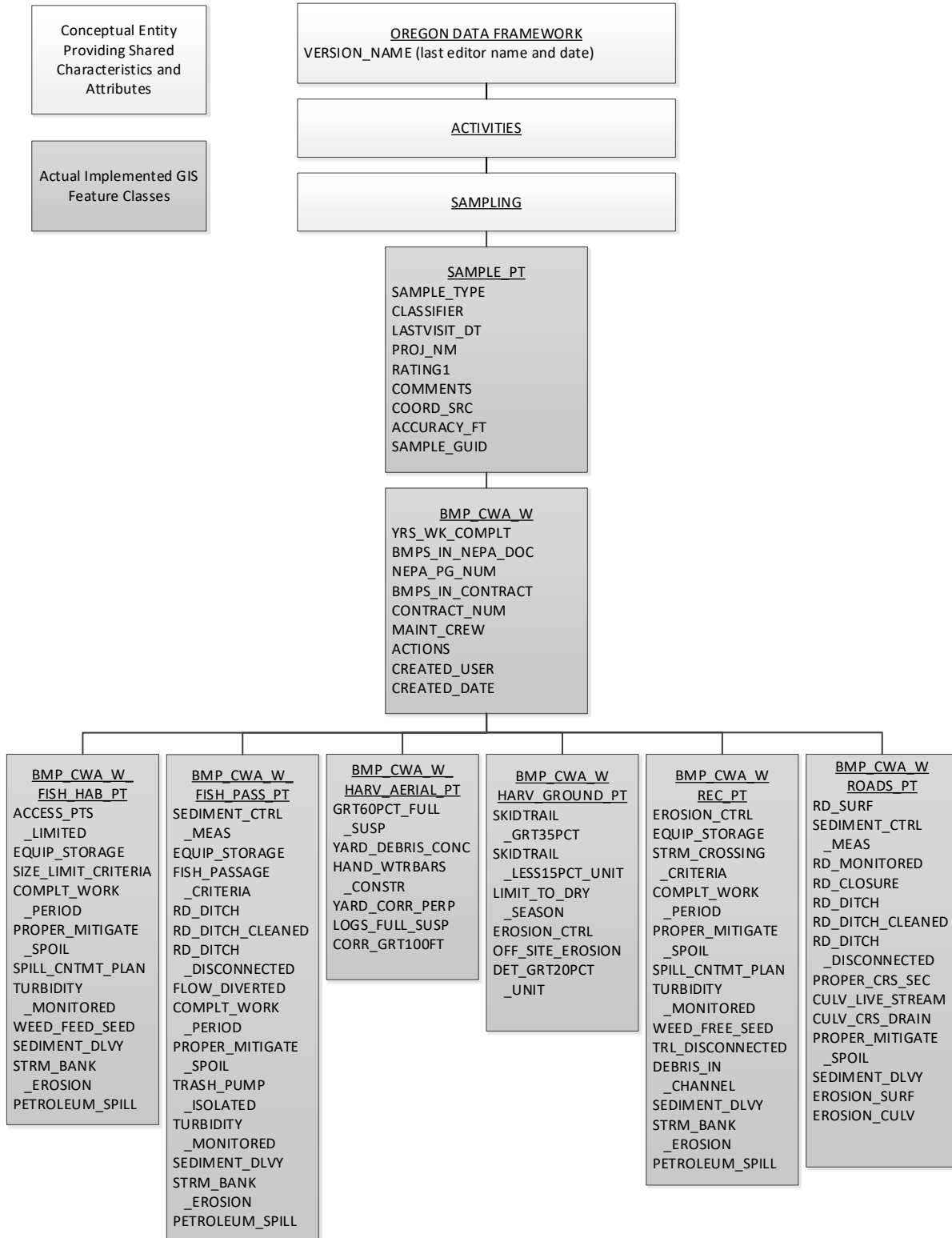


Figure 1 Data Organization Structure

3. DATA MANAGEMENT PROTOCOLS

3.1 ACCURACY REQUIREMENTS

BMP_CWA points require a high level of positional accuracy in order to be useful for intended purposes. Accurate location is critical to being able to distinguish points that are supposed to be different from points that are supposed to be in the same location. The attribute ACCURACY_FT provides the accuracy of each sample point.

3.2 COLLECTION, INPUT, AND MAINTENANCE PROTOCOLS

BMP_CWA point themes are intended to record data points collected in the field using mobile data collection devices. As such, most data points will be input from GPS coordinates. The source of the coordinates is captured in the attribute COORD_SRC.

BMP_CWA are monitoring points and represent a snap-shot in time collection of information. When a site needs to be revisited, then new monitoring data points should be collected, i.e., the previously collected information should not be updated.

3.3 UPDATE FREQUENCY AND ARCHIVAL PROTOCOLS

Data collected in the field are added to the corporate data, at a minimum, annually, after “field season”, or as needed. Data will be captured once a year during the corporate database annual archive, which occurs at the end of the calendar year.

3.4 STATEWIDE MONITORING

The State Data Steward, in conjunction with District Data Stewards, are responsible for reviewing the BMP_CWA themes at least once per year. During the annual review, geospatial staff may present the state data stewards with a report detailing Quality Assurance/Quality Control (QAQC) results performed on the data. QAQC checks include:

- All attribute values conform to the specified range or coded-value domains described.
- All attributes marked as required in the data standard have values.
- Duplicate features which have the same geometry and attributes.
- Other checks, as necessary (can be customized according to the data standard).

In addition to this report, geospatial staff may conduct a qualitative needs assessment with the data steward to identify any unmet needs or problems with the current status of the data. At the conclusion of the review, the team records the data steward’s approval of the data reviewed. This approval is then added to the corporate metadata.

4. BEST MANAGEMENT PRACTICES (CLEAN WATER ACT) SCHEMA (simplified)

General Information: Attributes are listed in the order they appear in the geodatabase feature class. The order is an indication of the importance of the attribute for theme definition and use. There are no aliases unless specifically noted. The domains used in this data standard can be found in Appendix A. These are the domains at the time the data standard was approved. Domains can be changed without a re-issue of the data standard. Current domains are found on the internal OR/WA SharePoint data management page. Some of the domains used in this data standard are also available at the following web site:

<http://www.blm.gov/or/datamanagement/index.php>

For additional information about the ODF, contact the [State Data Administrator](#). The State Data Administrator's contact information can be found at the following link:

<https://www.blm.gov/about/data/oregon-data-management>.

4.1 FEATURE CLASSES

4.1.1 BMP_CWA_W_FISH_HAB_PT

Best Management Practices (Clean Water Act) Fish Habitat feature class

Attribute Name	Data Type	Length	Default Value	Required?	Domain
SAMPLE_TYPE	String	30	BMP	Yes**	dom_SAMPLE_TYPE***
CLASSIFIER	String	30		No	
LASTVISIT_DT	String	8		Yes**	
PROJ_NM	String	50		No	
YRS_WK_COMPLT	String	10		No	
BMP_IN_NEPA_DOC	String	1		Yes**	dom_YN
NEPA_PG_NUM	String	10		No	
BMP_IN_CONTRACT	String	1		Yes**	dom_YN
CONTRACT_NUM	String	50		No	
MAINT_CREW	String	20		No	
RATING1	String	20		Yes	dom_BMP_CWA_Rating
ACCESS_PTS_LIMITED	String	2		Yes	dom_YN_NR
EQUIP_STORAGE	String	2		Yes	dom_YN_NR
SIZE_LIMIT_CRITERIA	String	2		Yes	dom_YN_NR
COMPLT_WORK_PERIOD	String	2		Yes	dom_YN_NR
PROPER_MITIGATE_SPOIL	String	2		Yes	dom_YN_NR
SPILL_CNTMT_PLAN	String	2		Yes	dom_YN_NR
TURBIDITY_MONITORED	String	2		Yes	dom_YN_NR
WEED_FREE_SEED	String	2		Yes	dom_YN_NR
SEDIMENT_DLTV	String	2		Yes	dom_YN_NR
STRM_BANK_EROSION	String	2		Yes	dom_YN_NR
PETROLEUM_SPILL	String	2		Yes	dom_YN_NR
COMMENTS	String	255		No	

ACTIONS	String	255		No	
COORD_SRC	String	7	UNK	No	dom_COORD_SRC
ACCURACY_FT	Short Integer			No	
VERSION_NAME	String	50		Yes*	
SAMPLE_GUID	GUID			Yes	
CREATED_USER	String	255		No*	
CREATED_DATE	Date			No*	

* Values automatically generated

** Enforced during quality control

*** Domain not implemented

4.1.2 BMP_CWA_W_FISH_PASS_PT

Best Management Practices (Clean Water Act) Fish Passage feature class

Attribute Name	Data Type	Length	Default Value	Required?	Domain
SAMPLE_TYPE	String	30	BMP	Yes**	dom_SAMPLE_TYPE ***
CLASSIFIER	String	30		No	
LASTVISIT_DT	String	8		Yes**	
PROJ_NM	String	50		No	
YRS_WK_COMPLT	String	10		No	
BMP_IN_NEPA_DOC	String	1		Yes**	dom_YN
NEPA_PG_NUM	String	10		No	
BMP_IN_CONTRACT	String	1		Yes**	dom_YN
CONTRACT_NUM	String	50		No	
MAINT_CREW	String	20		No	
RATING1	String	20		Yes	dom_BMP_CWA_Rating
SEDIMENT_CTRL_MEAS	String	2		Yes	dom_YN_NR
EQUIP_STORAGE	String	2		Yes	dom_YN_NR
FISH_PASSAGE_CRITERIA	String	2		Yes	dom_YN_NR
RD_DITCH	String	2		Yes	dom_YN_NR
RD_DITCH_CLEANED	String	2		Yes	dom_YN_NR
RD_DITCH_DISCONNECTED	String	2		Yes	dom_YN_NR
FLOW_DIVERTED	String	2		Yes	dom_YN_NR
COMPLT_WORK_PERIOD	String	2		Yes	dom_YN_NR
PROPER_MITIGATE_SPOIL	String	2		Yes	dom_YN_NR
TRASH_PUMP_ISOLATED	String	2		Yes	dom_YN_NR
TURBIDITY_MONITORED	String	2		Yes	dom_YN_NR
SEDIMENT_DLTV	String	2		Yes	dom_YN_NR
STRM_BANK_EROSION	String	2		Yes	dom_YN_NR
PETROLEUM_SPILL	String	2		Yes	dom_YN_NR
COMMENTS	String	255		No	
ACTIONS	String	255		No	
COORD_SRC	String	7	UNK	No	dom_COORD_SRC
ACCURACY_FT	Short Integer			No	

VERSION_NAME	String	50		Yes*	
SAMPLE_GUID	GUID			Yes	
CREATED_USER	String	255		No*	
CREATED_DATE	Date			No*	

* Values automatically generated

** Enforced during quality control

*** Domain not implemented

4.1.3 BMP_CWA_W_HARV_AERIAL_PT

Best Management Practices (Clean Water Act) Aerial Harvest feature class

Attribute Name	Data Type	Length	Default Value	Required?	Domain
SAMPLE_TYPE	String	30	BMP	Yes**	dom SAMPLE_TYPE ***
CLASSIFIER	String	30		No	
LASTVISIT_DT	String	8		Yes**	
PROJ_NM	String	50		No	
YRS_WK_COMPLT	String	10		No	
BMP_IN_NEPA_DOC	String	1		Yes**	dom YN
NEPA_PG_NUM	String	10		No	
BMP_IN_CONTRACT	String	1		Yes**	dom YN
CONTRACT_NUM	String	50		No	
MAINT_CREW	String	20		No	
RATING1	String	20		Yes	dom BMP_CWA Rating
GRT60PCT_FULL_SUSP	String	2		Yes	dom YN_NR
YARD_DEBRIS_CONC	String	2		Yes	dom YN_NR
HAND_WTRBARS_CONSTR	String	2		Yes	dom YN_NR
YARD_CORR_PERP	String	2		Yes	dom YN_NR
LOGS_FULL_SUSP	String	2		Yes	dom YN_NR
CORR_GRT100FT	String	2		Yes	dom YN_NR
COMMENTS	String	255		No	
ACTIONS	String	255		No	
COORD_SRC	String	7	UNK	No	dom COORD_SRC
ACCURACY_FT	Short Integer			No	
VERSION_NAME	String	50		Yes*	
SAMPLE_GUID	GUID			Yes	
CREATED_USER	String	255		No*	
CREATED_DATE	Date			No*	

* Values automatically generated

** Enforced during quality control

*** Domain not implemented

4.1.4 BMP_CWA_W_HARV_GROUND_PT

Best Management Practices (Clean Water Act) Ground Harvest feature class

Attribute Name	Data Type	Length	Default Value	Required?	Domain
SAMPLE_TYPE	String	30	BMP	Yes**	dom SAMPLE TYPE ***
CLASSIFIER	String	30		No	
LASTVISIT_DT	String	8		Yes**	
PROJ_NM	String	50		No	
YRS_WK_COMPLT	String	10		No	
BMP_IN_NEPA_DOC	String	1		Yes**	dom YN
NEPA_PG_NUM	String	10		No	
BMP_IN_CONTRACT	String	1		Yes**	dom YN
CONTRACT_NUM	String	50		No	
MAINT_CREW	String	20		No	
RATING1	String	20		Yes	dom BMP CWA Rating
SKIDTRAIL_GRT35PCT	String	2		Yes	dom YN NR
SKIDTRAIL_LESS15PCT_UNIT	String	2		Yes	dom YN NR
LIMIT_TO_DRY_SEASON	String	2		Yes	dom YN NR
EROSION_CTRL	String	2		Yes	dom YN NR
OFF_SITE_EROSION	String	2		Yes	dom YN NR
DET_GRT20PCT_UNIT	String	2		Yes	dom YN NR
COMMENTS	String	255		No	
ACTIONS	String	255		No	
COORD_SRC	String	7	UNK	No	dom COORD_SRC
ACCURACY_FT	Short Integer			No	
VERSION_NAME	String	50		Yes*	
SAMPLE_GUID	GUID			Yes	
CREATED_USER	String	255		No*	
CREATED_DATE	Date			No*	

- * Values automatically generated
- ** Enforced during quality control
- *** Domain not implemented

4.1.5 BMP_CWA_W_REC_PT

Best Management Practices (Clean Water Act) Recreation feature class

Attribute Name	Data Type	Length	Default Value	Required?	Domain
SAMPLE_TYPE	String	30	BMP	Yes**	dom SAMPLE TYPE ***
CLASSIFIER	String	30		No	
LASTVISIT_DT	String	8		Yes**	
PROJ_NM	String	50		No	
YRS_WK_COMPLT	String	10		No	
BMP_IN_NEPA_DOC	String	1		Yes**	dom YN
NEPA_PG_NUM	String	10		No	
BMP_IN_CONTRACT	String	1		Yes**	dom YN
CONTRACT_NUM	String	50		No	

MAINT_CREW	String	20		No	
RATING1	String	20		Yes	dom BMP CWA Rating
EROSION_CTRL	String	2		Yes	dom YN_NR
EQUIP_STORAGE	String	2		Yes	dom YN_NR
STRM_CROSSING_CRITERIA	String	2		Yes	dom YN_NR
COMPLT_WORK_PERIOD	String	2		Yes	dom YN_NR
PROPER_MITIGATE_SPOIL	String	2		Yes	dom YN_NR
SPILL_CNTMT_PLAN	String	2		Yes	dom YN_NR
TURBIDITY_MONITORED	String	2		Yes	dom YN_NR
WEED_FREE_SEED	String	2		Yes	dom YN_NR
TRL_DISCONNECTED	String	2		Yes	dom YN_NR
DEBRIS_IN_CHANNEL	String	2		Yes	dom YN_NR
SEDIMENT_DLVY	String	2		Yes	dom YN_NR
STRM_BANK_EROSION	String	2		Yes	dom YN_NR
PETROLEUM_SPILL	String	2		Yes	dom YN_NR
COMMENTS	String	255		No	
ACTIONS	String	255		No	
COORD_SRC	String	7	UNK	No	dom COORD_SRC
ACCURACY_FT	Short Integer			No	
VERSION_NAME	String	50		Yes*	
SAMPLE_GUID	GUID			Yes	
CREATED_USER	String	255		No*	
CREATED_DATE	Date			No*	

*Values automatically generated

** Enforced during quality control

*** Domain not implemented

4.1.6 BMP_CWA_W_ROADS_PT

Best Management Practices (Clean Water Act) Roads feature class

Attribute Name	Data Type	Length	Default Value	Required?	Domain
SAMPLE_TYPE	String	30	BMP	Yes**	dom SAMPLE TYPE ***
CLASSIFIER	String	30		No	
LASTVISIT_DT	String	8		Yes**	
PROJ_NM	String	50		No	
YRS_WK_COMPLT	String	10		No	
BMP_IN_NEPA_DOC	String	1		Yes**	dom YN
NEPA_PG_NUM	String	10		No	
BMP_IN_CONTRACT	String	1		Yes**	dom YN
CONTRACT_NUM	String	50		No	
MAINT_CREW	String	20		No	
RATING1	String	20		Yes	dom BMP CWA Rating
RD_SURF	String	15		Yes	dom BMP CWA RoadSurface
SEDIMENT_CTRL_MEAS	String	2		Yes	dom YN_NR

RD_MONITORED	String	2		Yes	dom_YN_NR
RD_CLOSURE	String	2		Yes	dom_YN_NR
RD_DITCH	String	2		Yes	dom_YN_NR
RD_DITCH_CLEANED	String	2		Yes	dom_YN_NR
RD_DITCH_DISCONNECTED	String	2		Yes	dom_YN_NR
PROPER_CRS_SEC	String	2		Yes	dom_YN_NR
CULV_LIVE_STRM	String	2		Yes	dom_YN_NR
CULV_CRS_DRAIN	String	2		Yes	dom_YN_NR
PROPER_MITIGATE_SPOIL	String	2		Yes	dom_YN_NR
SEDIMENT_DLVY	String	2		Yes	dom_YN_NR
EROSION_SURF	String	2		Yes	dom_YN_NR
EROSION_CULV	String	2		Yes	dom_YN_NR
COMMENTS	String	255		No	
ACTIONS	String	255		No	
COORD_SRC	String	7	UNK	No	dom_COORD_SRC
ACCURACY_FT	Short Integer			No	
VERSION_NAME	String	50		Yes*	
SAMPLE_GUID	GUID			Yes	
CREATED_USER	String	255		No*	
CREATED_DATE	Date			No*	

*Values automatically generated

** Enforced during quality control

*** Domain not implemented

5. PROJECTION AND SPATIAL EXTENT

All feature classes and feature datasets are in Geographic, North American Datum 83. Units are decimal degrees. Spatial extent (area of coverage) includes all lands managed by the BLM OR/WA, bordered on the North by Latitude 49.5, on the South by Latitude 41.5, on the East by Longitude -116 and on the West by Longitude -125.

6. SPATIAL ENTITY CHARACTERISTICS

6.1 BMP_CWA_W_FISH_HAB_PT

Description: Sub-class of Sample Point in the Sampling group.

Geometry: Simple point features.

Topology: No topology rules enforced. Points may be coincident.

Integration Requirements: None.

6.2 BMP_CWA_W_FISH_PASS_PT

Description: Sub-class of Sample Point in the Sampling group.

Geometry: Simple point features.

Topology: No topology rules enforced. Points may be coincident.

Integration Requirements: None.

6.3 BMP_CWA_W_HARV_AERIAL_PT

Description: Sub-class of Sample Point in the Sampling group.
 Geometry: Simple point features.
 Topology: No topology rules enforced. Points may be coincident.
 Integration Requirements: None.

6.4 BMP_CWA_W_HARV_GROUND_PT

Description: Sub-class of Sample Point in the Sampling group.
 Geometry: Simple point features.
 Topology: No topology rules enforced. Points may be coincident.
 Integration Requirements: None.

6.5 BMP_CWA_W_REC_PT

Description: Sub-class of Sample Point in the Sampling group.
 Geometry: Simple point features.
 Topology: No topology rules enforced. Points may be coincident.
 Integration Requirements: None.

6.6 BMP_CWA_W_ROADS_PT

Description: Sub-class of Sample Point in the Sampling group.
 Geometry: Simple point features.
 Topology: No topology rules enforced. Points may be coincident.
 Integration Requirements: None.

7. ATTRIBUTE CHARACTERISTICS AND DEFINITION (In alphabetical order)

7.1 ACCESS_PTS_LIMITED

Geodatabase Name	ACCESS_PTS_LIMITED
BLM Structured Name	Actions_Text
Alias Name	None
Inheritance	Not Inherited
Feature Class Use/Entity Table	BMP_CWA_W_FISH_HAB_PT
Definition	Flag to indicate if access points in the Riparian Reserved were limited to minimum amount. (RMP WO BMP RST05)
Required/Optional	Required
Domain (Valid Values)	dom_YN_NR
Data Type	String (1)

7.2 ACCURACY_FT

Geodatabase Name	ACCURACY_FT
BLM Structured Name	Accuracy_Feet_Measure
Alias Name	None
Inheritance	Inherited from SAMPLING
Feature Class Use/Entity Table	BMP_CWA_W_FISH_HAB_PT, BMP_CWA_W_FISH_PASS_PT, BMP_CWA_W_HARV_AERIAL_PT, BMP_CWA_W_HARV_GROUND_PT, BMP_CWA_W_REC_PT, BMP_CWA_W_ROADS_PT
Definition	How close, in feet, the spatial GIS depiction is to the actual location on the ground. There are several factors to consider in GIS error: scale and accuracy of map-based sources, accuracy of GPS equipment, and the skill level of the data manipulators. A value of "0" indicates no entry was made. This is the correct value when the COORD_SRC is another GIS theme (Digital Line Graphs (DLG), Geographic Coordinate Database (GCD), and Digital Elevation Model (DEM)) because the accuracy is determined by that theme. However, if COORD_SRC is MAP (digitized from a paper map) or GPS, a value of "0" indicates a missing value that should be filled in either with a non-zero number or "-1." A value of "-1" indicates that the accuracy is unknown and no reliable estimate can be made.
Required/Optional	Optional
Domain (Valid Values)	No Domain. Examples: 3 (for high accuracy GPS), 40 (best possible for USGS 24K topo map), 200
Data Type	Short Integer

7.3 ACTIONS

Geodatabase Name	ACTIONS
BLM Structured Name	Actions_Text
Alias Name	None
Inheritance	Not Inherited
Feature Class Use/Entity Table	BMP_CWA_W_FISH_HAB_PT, BMP_CWA_W_FISH_PASS_PT, BMP_CWA_W_HARV_AERIAL_PT, BMP_CWA_W_HARV_GROUND_PT, BMP_CWA_W_REC_PT, BMP_CWA_W_ROADS_PT
Definition	Other project specific Best Management Practices or actions are needed.
Required/Optional	Optional

Domain (Valid Values)	No domain
Data Type	String (255)

7.4 BMP_IN_CONTRACT

Geodatabase Name	BMP_IN_CONTRACT
BLM Structured Name	Best_Management_Practices_In_Contract_Text
Alias Name	None
Inheritance	Not Inherited
Feature Class Use/Entity Table	BMP_CWA_W_FISH_HAB_PT, BMP_CWA_W_FISH_PASS_PT, BMP_CWA_W_HARV_AERIAL_PT, BMP_CWA_W_HARV_GROUND_PT, BMP_CWA_W_REC_PT, BMP_CWA_W_ROADS_PT
Definition	Flag to indicate if Best Management Practices were included in the contract.
Required/Optional	Optional
Domain (Valid Values)	dom_YN
Data Type	String (1)

7.5 BMP_IN_NEPA_DOC

Geodatabase Name	BMP_IN_NEPA_DOC
BLM Structured Name	Best_Management_Practices_in_NEPA_Document_Text
Alias Name	None
Inheritance	Not Inherited
Feature Class Use/Entity Table	BMP_CWA_W_FISH_HAB_PT, BMP_CWA_W_FISH_PASS_PT, BMP_CWA_W_HARV_AERIAL_PT, BMP_CWA_W_HARV_GROUND_PT, BMP_CWA_W_REC_PT, BMP_CWA_W_ROADS_PT
Definition	Flag to indicate if Best Management Practices were identified in the NEPA document.
Required/Optional	Required
Domain (Valid Values)	dom_YN
Data Type	String (1)

7.6 CLASSIFIER

Geodatabase Name	CLASSIFIER
BLM Structured Name	Classifier_Name
Alias Name	Investigator
Inheritance	Inherited from SAMPLING
Feature Class Use/Entity Table	BMP_CWA_W_FISH_HAB_PT, BMP_CWA_W_FISH_PASS_PT, BMP_CWA_W_HARV_AERIAL_PT, BMP_CWA_W_HARV_GROUND_PT, BMP_CWA_W_REC_PT, BMP_CWA_W_ROADS_PT
Definition	<p>Name of the subject matter specialist most knowledgeable about the on-the-ground location where the sample point was collected.</p> <p>When the data is collected in a mobile collection application, the value will be automatically populated on import of the data to ArcGIS from Created User, which uses the Active Directory (AD) ID. The Classifier value can be modified in an ArcGIS desktop application prior to submitting the data to the database. Multiple names should be comma delimited, full names should be mixed case and include first and last names.</p>
Required/Optional	Optional
Domain (Valid Values)	No domain. Examples: Mary Smith, John Doe
Data Type	String (30)

7.7 COMMENTS

Geodatabase Name	COMMENTS
BLM Structured Name	Comments_Text
Alias Name	None
Inheritance	Inherited from SAMPLING
Feature Class Use	BMP_CWA_W_FISH_HAB_PT, BMP_CWA_W_FISH_PASS_PT, BMP_CWA_W_HARV_AERIAL_PT, BMP_CWA_W_HARV_GROUND_PT, BMP_CWA_W_REC_PT, BMP_CWA_W_ROADS_PT
Definition	Free text comments about the sample point.
Required/Optional	Optional
Domain (Valid Values)	No domain.
Data Type	String (255)

7.8 COMPLT_WORK_PERIOD

Geodatabase Name	COMPLT_WORK_PERIOD
BLM Structured Name	Completed_Work_Period_Code

Alias Name	None
Inheritance	Not Inherited
Feature Class Use	BMP_CWA_W_FISH_HAB_PT, BMP_CWA_W_FISH_PASS_PT, BMP_CWA_W_REC_PT
Definition	Flag to indicate if the work was completed during the in-water work period. (RMP WO BMP R48, RST01)
Required/Optional	Required
Domain (Valid Values)	dom_YN_NR
Data Type	String (1)

7.9 CONTRACT_NUM

Geodatabase Name	CONTRACT_NUM
BLM Structured Name	Contract_Number
Alias Name	None
Inheritance	Not Inherited
Feature Class Use/Entity Table	BMP_CWA_W_FISH_HAB_PT, BMP_CWA_W_FISH_PASS_PT, BMP_CWA_W_HARV_AERIAL_PT, BMP_CWA_W_HARV_GROUND_PT, BMP_CWA_W_REC_PT, BMP_CWA_W_ROADS_PT
Definition	The contract number, if Best Management Practices were included.
Required/Optional	Optional
Domain (Valid Values)	No domain
Data Type	String (50)

7.10 COORD_SRC

Geodatabase Name	COORD_SRC
BLM Structured Name	Coordinate_Source_Code
Alias Name	None
Inheritance	Inherited from SAMPLING
Feature Class Use/Entity Table	BMP_CWA_W_FISH_HAB_PT, BMP_CWA_W_FISH_PASS_PT, BMP_CWA_W_HARV_AERIAL_PT, BMP_CWA_W_HARV_GROUND_PT, BMP_CWA_W_REC_PT, BMP_CWA_W_ROADS_PT
Definition	The actual source of the GIS coordinates for the points. If the point is copied from another theme, and already has COORD_SRC, it should be reviewed and may need to be changed for use in this dataset.

	When the data is collected in a mobile collection application, the value will be automatically calculated. The field user will calculate the quality of the GPS coordinate source used.
Required/Optional	Optional
Domain (Valid Values)	dom_COORD_SRC
Data Type	String (7)

7.11 CORR_GRT100FT

Geodatabase Name	CORR_GRT100FT
BLM Structured Name	Skyline_Corridors_Greater_100_Feet_Apart_Code
Alias Name	None
Inheritance	Not Inherited
Feature Class Use/Entity Table	BMP_CWA_W_HARV_AERIAL_PT
Definition	Flag to indicate if skyline corridors are greater than 100 feet apart. (RMP WO BMP TH01)
Required/Optional	Required
Domain (Valid Values)	dom_YN_NR
Data Type	String (1)

7.12 CREATED_DATE

Geodatabase Name	CREATED_DATE
BLM Structured Name	Created_User_Date
Alias Name	None
Inheritance	Not Inherited
Feature Class Use/Entity Table	BMP_CWA_W_FISH_HAB_PT, BMP_CWA_W_FISH_PASS_PT, BMP_CWA_W_HARV_AERIAL_PT, BMP_CWA_W_HARV_GROUND_PT, BMP_CWA_W_REC_PT, BMP_CWA_W_ROADS_PT
Definition	<p>The date the sample point is added to the database, either in a mobile data collection application or in an ArcGIS desktop application. This value cannot be edited by the user.</p> <p>This value is automatically generated from the date on the database GMT (UTC).</p>

	When the data is collected in a mobile collection application, the value will populate the Last Visit Date attribute on import of the data to ArcGIS.
Required/Optional	Optional (automatically generated)
Domain (Valid Values)	No domain
Data Type	Date

7.13 CREATED_USER

Geodatabase Name	CREATED_USER
BLM Structured Name	Created_User_Text
Alias Name	None
Inheritance	Not Inherited
Feature Class Use/Entity Table	BMP_CWA_W_FISH_HAB_PT, BMP_CWA_W_FISH_PASS_PT, BMP_CWA_W_HARV_AERIAL_PT, BMP_CWA_W_HARV_GROUND_PT, BMP_CWA_W_REC_PT, BMP_CWA_W_ROADS_PT
Definition	<p>The user name of the person who adds the data to the database, either in a mobile data collection application or in an ArcGIS desktop application. This value cannot be edited by the user.</p> <p>This value is automatically generated from the user’s Active Directory (AD) ID.</p> <p>When the data is collected in a mobile collection application, the value will populate the Classifier attribute on import of the data to ArcGIS.</p>
Required/Optional	Optional (automatically generated)
Domain (Valid Values)	No domain
Data Type	String (255)

7.14 CULV_CRIS_DRAIN

Geodatabase Name	CULV_CRIS_DRAIN
BLM Structured Name	Cross_Drain_Culverts_Installed_Code
Alias Name	None
Inheritance	Not Inherited
Feature Class Use/Entity Table	BMP_CWA_W_ROADS_PT

Definition	Flag to indicate if cross drain culverts were installed in the road work package. (RMP WO BMP R40)
Required/Optional	Required
Domain (Valid Values)	dom_YN_NR
Data Type	String (1)

7.15 CULV_LIVE_STRM

Geodatabase Name	CULV_LIVE_STRM
BLM Structured Name	Live_Stream_Culvert_Code
Alias Name	None
Inheritance	Not Inherited
Feature Class Use/Entity Table	BMP_CWA_W_ROADS_PT
Definition	Flag to indicate if live stream culverts were installed in the road work package. (RMP WO BMP R15, R17)
Required/Optional	Required
Domain (Valid Values)	dom_YN_NR
Data Type	String (1)

7.16 DEBRIS_IN_CHANNEL

Geodatabase Name	DEBRIS_IN_CHANNEL
BLM Structured Name	Debris_In_Channel_Code
Alias Name	None
Inheritance	Not Inherited
Feature Class Use/Entity Table	BMP_CWA_W_REC_PT
Definition	Flag to indicate if logs or downed woody debris were left in the stream channel. (RMP WO BMP REC18)
Required/Optional	Required
Domain (Valid Values)	dom_YN_NR
Data Type	String (1)

7.17 DET_GRT20PCT_UNIT

Geodatabase Name	DET_GRT20PCT_UNIT
BLM Structured Name	Detrimental_Soil_Disturbance_Greater_20_Percent_Code
Alias Name	None
Inheritance	Not Inherited
Feature Class Use/Entity Table	BMP_CWA_W_HARV_GROUND_PT
Definition	Flag to indicate if the cumulative detrimental soil disturbance is greater than 20% of the unit area.
Required/Optional	Required
Domain (Valid Values)	dom_YN_NR
Data Type	String (1)

7.18 EQUIP_STORAGE

Geodatabase Name	EQUIP_STORAGE
BLM Structured Name	Equipment_Storage_Code
Alias Name	None
Inheritance	Not Inherited
Feature Class Use/Entity Table	BMP_CWA_W_FISH_HAB_PT, BMP_CWA_W_FISH_PASS_PT, BMP_CWA_W_REC_PT
Definition	Flag to indicate if equipment storage and refueling area were a minimum of 100 feet from the stream. (RMP WO BMP RST08, RST10)
Required/Optional	Required
Domain (Valid Values)	dom_YN_NR
Data Type	String (1)

7.19 EROSION_CTRL

Geodatabase Name	EROSION_CTRL
BLM Structured Name	Erosion_Control_Code
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	BMP_CWA_W_HARV_GROUND_PT, BMP_CWA_W_REC_PT
Definition	Flag to indicate if erosion control measures were implemented to limit

	sediment delivery to streams. (RMP WO BMP REC01, TH16)
Required/Optional	Required
Domain (Valid Values)	dom_YN_NR
Data Type	String (1)

7.20 EROSION_CULV

Geodatabase Name	EROSION_CULV
BLM Structured Name	Culvert_Erosion_Code
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	BMP_CWA_W_ROADS_PT
Definition	Flag to indicate if there is evidence of erosion or scour at the culvert outlet.
Required/Optional	Required
Domain (Valid Values)	dom_YN_NR
Data Type	String (1)

7.21 EROSION_SURF

Geodatabase Name	EROSION_SURF
BLM Structured Name	Erosion_Surface_Code
Alias Name	None
Inheritance	Not Inherited
Feature Class Use/Entity Table	BMP_CWA_W_ROADS_PT
Definition	Flag to indicate if there is evidence of road surface erosion.
Required/Optional	Required
Domain (Valid Values)	dom_YN_NR
Data Type	String (1)

7.22 FISH_PASSAGE_CRITERIA

Geodatabase Name	FISH_PASSAGE_CRITERIA
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BLM Structured Name	Fish_Passage_Criteria_Code
Alias Name	None
Inheritance	Not Inherited
Feature Class Use/Entity Table	BMP_CWA_W_FISH_PASS_PT
Definition	Flag to indicate if project meets ODFW or ARBO II passage criteria. (RMP WO BMP R17)
Required/Optional	Required
Domain (Valid Values)	dom_YN_NR
Data Type	String (1)

7.23 FLOW_DIVERTED

Geodatabase Name	FLOW_DIVERTED
BLM Structured Name	Flow_Diverted_Code
Alias Name	None
Inheritance	Not Inherited
Feature Class Use/Entity Table	BMP_CWA_W_FISH_PASS_PT
Definition	Flag to indicate if the stream flow was diverted around the work area by pump or channel. (RMP WO BMP R23)
Required/Optional	Required
Domain (Valid Values)	dom_YN_NR
Data Type	String (1)

7.24 GRT60PCT_FULL_SUSP

Geodatabase Name	GRT60PCT_FULL_SUSP
BLM Structured Name	Greater_Than_60_Percent_Slope_Full_Suspension_Used_Code
Alias Name	None
Inheritance	Not Inherited
Feature Class Use/Entity Table	BMP_CWA_W_HARV_AERIAL_PT
Definition	Flag to indicate if on units exceeding 60% slope if full suspension was used, one-end with seasonal restrictions or one-end from a standing skyline, using

	lateral yarding capacity. (RMP WO BMP TH01, TH05)
Required/Optional	Required
Domain (Valid Values)	dom_YN_NR
Data Type	String (1)

7.25 HAND_WTRBARS_CONSTR

Geodatabase Name	HAND_WTRBARS_CONSTR
BLM Structured Name	Hand_Waterbars_Constructed_Code
Alias Name	None
Inheritance	Not Inherited
Feature Class Use/Entity Table	BMP_CWA_W_HARV_AERIAL_PT
Definition	Flag to indicate if hand waterbars were constructed in corridors on sensitive soils where gouging occurred. (RMP WO BMP TH06) Record number of hand waterbars constructed in the comments field.
Required/Optional	Required
Domain (Valid Values)	dom_YN_NR
Data Type	String (1)

7.26 LASTVISIT_DT

Geodatabase Name	LASTVISIT_DT
BLM Structured Name	Last_Visit_Sample_Date
Alias Name	None
Inheritance	Inherited from SAMPLE_PT
Feature Class Use/Entity Table	BMP_CWA_W_FISH_HAB_PT, BMP_CWA_W_FISH_PASS_PT, BMP_CWA_W_HARV_AERIAL_PT, BMP_CWA_W_HARV_GROUND_PT, BMP_CWA_W_REC_PT, BMP_CWA_W_ROADS_PT
Definition	The last date that a sample was taken or measured at this point. When the data is collected in a mobile collection application, this value will be automatically populated on import of the data to ArcGIS from the Created Date, which uses GMT (UTC), as it is assumed that the visit date is the same as the date the data was captured in the database. The Last Visit Date value can be modified prior to submitting the data to the database.

	When the data is entered in an ArcGIS desktop application, this attribute will not be automatically populated from the Created Date as it is assumed that the visit date is not the same as the date the data was captured in the database.
Required/Optional	Required
Domain (Valid Values)	No Domain. Examples: 20080624, 1998, 200109, UNKNOWN
Data Type	String (8)

7.27 LIMIT_TO_DRY_SEASON

Geodatabase Name	LIMIT_TO_DRY_SEASON
BLM Structured Name	Limit_to_Dry_Season_Code
Alias Name	None
Inheritance	Not Inherited
Feature Class Use/Entity Table	BMP_CWA_W_HARV_GROUND_PT
Definition	<p>Flag to indicate if tractor use was limited to dry season, i.e., less than the percent soil moisture limit for soil type. (RMP WO BMP TH11)</p> <p>Soil types and their general volumetric water content moisture limits for ground based activities:</p> <ul style="list-style-type: none"> • Clay/Clay loams: 25% • Loam/Silt loam: 20% • Sand/Sandy loams: 15%
Required/Optional	Required
Domain (Valid Values)	dom_YN_NR
Data Type	String (1)

7.28 LOGS_FULL_SUSP

Geodatabase Name	LOGS_FULL_SUSP
BLM Structured Name	Logs_Fully_Suspended_Code
Alias Name	None
Inheritance	Not Inherited
Feature Class Use/Entity Table	BMP_CWA_W_HARV_AERIAL_PT

Definition	Flag to indicate if logs were fully suspended. (RMP WO BMP TH03, TH04)
Required/Optional	Required
Domain (Valid Values)	dom_YN_NR
Data Type	String (1)

7.29 MAINT_CREW

Geodatabase Name	MAINT_CREW
BLM Structured Name	Maintenance_Crew_Text
Alias Name	None
Inheritance	Not Inherited
Feature Class Use/Entity Table	BMP_CWA_W_FISH_HAB_PT, BMP_CWA_W_FISH_PASS_PT, BMP_CWA_W_HARV_AERIAL_PT, BMP_CWA_W_HARV_GROUND_PT, BMP_CWA_W_REC_PT, BMP_CWA_W_ROADS_PT
Definition	Name(s) of the maintenance crew who performed the work.
Required/Optional	Optional
Domain (Valid Values)	No domain
Data Type	String (20)

7.30 NEPA_PG_NUM

Geodatabase Name	NEPA_PG_NUM
BLM Structured Name	National_Environmental_Policy_Act_Page_Number
Alias Name	None
Inheritance	Not Inherited
Feature Class Use/Entity Table	BMP_CWA_W_FISH_HAB_PT, BMP_CWA_W_FISH_PASS_PT, BMP_CWA_W_HARV_AERIAL_PT, BMP_CWA_W_HARV_GROUND_PT, BMP_CWA_W_REC_PT, BMP_CWA_W_ROADS_PT
Definition	Page number of Best Management Practices identified in the NEPA document.
Required/Optional	Optional
Domain (Valid Values)	No domain
Data Type	String (10)

7.31 OFF_SITE_EROSION

Geodatabase Name	OFF_SITE_EROSION
BLM Structured Name	Off_Site_Erosion_Code
Alias Name	None
Inheritance	Not Inherited
Feature Class Use/Entity Table	BMP_CWA_W_HARV_GROUND_PT
Definition	Flag to indicate if there is any evidence of off-site soil movement.
Required/Optional	Required
Domain (Valid Values)	dom_YN_NR
Data Type	String (1)

7.32 PETROLEUM_SPILL

Geodatabase Name	PETROLEUM_SPILL
BLM Structured Name	Petroleum_Spill_Code
Alias Name	None
Inheritance	Not Inherited
Feature Class Use/Entity Table	BMP_CWA_W_FISH_HAB_PT, BMP_CWA_W_FISH_PASS_PT, BMP_CWA_W_REC_PT
Definition	Flag to indicate if there is evidence of petroleum spills at the project site.
Required/Optional	Required
Domain (Valid Values)	dom_YN_NR
Data Type	String (1)

7.33 PROJ_NM

Geodatabase Name	TRT_PROJ_NM
BLM Structured Name	Treatment_Project_Name
Alias Name	PROJ_NM
Inheritance	Inherited from SAMPLING
Feature Class Use/Entity Table	BMP_CWA_W_FISH_HAB_PT, BMP_CWA_W_FISH_PASS_PT, BMP_CWA_W_HARV_AERIAL_PT,

	BMP_CWA_W_HARV_GROUND_PT, BMP_CWA_W_REC_PT, BMP_CWA_W_ROADS_PT
Definition	Name of the associated sale or project name that is being monitored.
Required/Optional	Optional
Domain (Valid Values)	No domain
Data Type	String (50)

7.34 PROPER_CRIS_SEC

Geodatabase Name	PROPER_CRIS_SEC
BLM Structured Name	Proper_Cross_Section_Code
Alias Name	None
Inheritance	Not Inherited
Feature Class Use/Entity Table	BMP_CWA_W_ROADS_PT
Definition	Flag to indicate if the road cross-section (inslope, outslope, crown) is functioning properly. (RMP WO BMP R30, R31)
Required/Optional	Required
Domain (Valid Values)	dom_YN_NR
Data Type	String (1)

7.35 PROPER_MITIGATE_SPOIL

Geodatabase Name	PROPER_MITIGATE_SPOIL
BLM Structured Name	Properly_Mitigated_Spoil_Code
Alias Name	None
Inheritance	Not Inherited
Feature Class Use/Entity Table	BMP_CWA_W_FISH_HAB_PT, BMP_CWA_W_FISH_PASS_PT, BMP_CWA_W_REC_PT, BMP_CWA_W_ROADS_PT
Definition	Flag to indicate if the displaced material was properly mitigated to prevent delivery to stream channels. (RMP WO BMP R01, REC29, RST06)
Required/Optional	Required
Domain (Valid Values)	dom_YN_NR
Data Type	String (1)

7.36 RATING1

Geodatabase Name	RATING1
BLM Structured Name	Rating_Code
Alias Name	BMP_RATING
Inheritance	Inherited from SAMPLING
Feature Class Use/Entity Table	BMP_CWA_W_FISH_HAB_PT, BMP_CWA_W_FISH_PASS_PT, BMP_CWA_W_HARV_AERIAL_PT, BMP_CWA_W_HARV_GROUND_PT, BMP_CWA_W_REC_PT, BMP_CWA_W_ROADS_PT
Definition	Code to indicate the Best Management Practice rating.
Required/Optional	Required
Domain (Valid Values)	dom BMP CWA Rating
Data Type	String (20)

7.37 RD_CLOSURE

Geodatabase Name	RD_CLOSURE
BLM Structured Name	Road_Closure_Code
Alias Name	None
Inheritance	Not Inherited
Feature Class Use/Entity Table	BMP_CWA_W_ROADS_PT
Definition	Flag to indicate if there is a closure on the road. (RMP WO BMP R82-R92)
Required/Optional	Required
Domain (Valid Values)	dom YN NR
Data Type	String (1)

7.38 RD_DITCH

Geodatabase Name	RD_DITCH
BLM Structured Name	Road_Ditch_Code
Alias Name	None
Inheritance	Not Inherited

Feature Class Use/Entity Table	BMP_CWA_W_FISH_PASS_PT, BMP_CWA_W_ROADS_PT
Definition	Flag to indicate if the road has a ditch. (RMP WO BMP R30-R38)
Required/Optional	Required
Domain (Valid Values)	dom_YN_NR
Data Type	String (1)

7.39 RD_DITCH_CLEANED

Geodatabase Name	RD_DITCH_CLEANED
BLM Structured Name	Road_Ditch_Cleaned_Code
Alias Name	None
Inheritance	Not Inherited
Feature Class Use/Entity Table	BMP_CWA_W_FISH_PASS_PT, BMP_CWA_W_ROADS_PT
Definition	Flag to indicate if the road ditch was cleaned or rocked. (RMP WO BMP R30-R38)
Required/Optional	Required
Domain (Valid Values)	dom_YN_NR
Data Type	String (1)

7.40 RD_DITCH_DISCONNECTED

Geodatabase Name	RD_DITCH_DISCONNECTED
BLM Structured Name	Road_Ditch_Disconnected_Code
Alias Name	None
Inheritance	Not Inherited
Feature Class Use/Entity Table	BMP_CWA_W_FISH_PASS_PT, BMP_CWA_W_ROADS_PT
Definition	Flag to indicate if the road ditch is disconnected from the stream channel, i.e., less than 75 feet of ditch connected to the stream. (RMP WO BMP R26)
Required/Optional	Required
Domain (Valid Values)	dom_YN_NR
Data Type	String (1)

7.41 RD_MONITORED

Geodatabase Name	RD_MONITORED
BLM Structured Name	Road_Monitored_Code
Alias Name	None
Inheritance	Not Inherited
Feature Class Use/Entity Table	BMP_CWA_W_ROADS_PT
Definition	Flag to indicate if the road was monitored during project implementation, e.g., active haul. (RMP WO BMP R69-R76, R93-R99)
Required/Optional	Required
Domain (Valid Values)	dom_YN_NR
Data Type	String (1)

7.42 RD_SURF

Geodatabase Name	RD_SURF
BLM Structured Name	Road_Surface_Code
Alias Name	NONE
Inheritance	Not Inherited
Feature Class Use/Entity Table	BMP_CWA_W_ROADS_PT
Definition	Code for recording the surface of the road.
Required/Optional	Required
Domain (Valid Values)	dom_BMP_CWA_RoadSurface
Data Type	String (15)

7.43 SAMPLE_GUID

Geodatabase Name	SAMPLE_GUID
BLM Structured Name	Sample_Globally_Unique_Identifier
Alias Name	None
Inheritance	Inherited from SAMPLING
Feature Class Use/Entity Table	BMP_CWA_W_FISH_HAB_PT, BMP_CWA_W_FISH_PASS_PT, BMP_CWA_W_HARV_AERIAL_PT,

	BMP_CWA_W_HARV_GROUND_PT, BMP_CWA_W_REC_PT, BMP_CWA_W_ROADS_PT
Definition	Unique identifier for the sample point feature class. The field is used to link table records to sample points.
Required/Optional	Required (Generated automatically in the mobile collection application, generated by using a custom OR/WA BLM unique ID tool in an ArcGIS desktop application.)
Domain (Valid Values)	No Domain
Data Type	GUID

7.44 SAMPLE_TYPE

Geodatabase Name	SAMPLE_TYPE
BLM Structured Name	Sample_Type_Code
Alias Name	None
Inheritance	Inherited from SAMPLING
Feature Class Use/Entity Table	BMP_CWA_W_FISH_HAB_PT, BMP_CWA_W_FISH_PASS_PT, BMP_CWA_W_HARV_AERIAL_PT, BMP_CWA_W_HARV_GROUND_PT, BMP_CWA_W_REC_PT, BMP_CWA_W_ROADS_PT
Definition	<p>The purpose for taking the sample at this location.</p> <p>“Best Management Practice” is the only valid value for this dataset. “Best Management Practice” is a single domain value in the larger Sample Type domain. It is important to populate this field correctly so that the field is attributed correctly when this data is combined with the parent and/or other sub-classes of the sample point dataset(s).</p> <p>“Best Management Practice”, the default domain value, is the only valid value for BMP_CWA themes.</p>
Required/Optional	Required
Domain (Valid Values)	dom_SAMPLE_TYPE
Data Type	String (30)

7.45 SEDIMENT_CTRL_MEAS

Geodatabase Name	SEDIMENT_CTRL_MEAS
BLM Structured Name	Sediment_Control_Measures_Code
Alias Name	None
Inheritance	Not Inherited

Feature Class Use/Entity Table	BMP_CWA_W_FISH_PASS_PT, BMP_CWA_W_ROADS_PT
Definition	A flag to indicate if sediment control measures were used during construction activities. (RMP WO BMP R13)
Required/Optional	Required
Domain (Valid Values)	dom_YN_NR
Data Type	String (1)

7.46 SEDIMENT_DLVI

Geodatabase Name	SEDIMENT_DLVI
BLM Structured Name	Sediment_Delivery_Code
Alias Name	None
Inheritance	Not Inherited
Feature Class Use/Entity Table	BMP_CWA_W_FISH_HAB_PT, BMP_CWA_W_FISH_PASS_PT, BMP_CWA_W_REC_PT, BMP_CWA_W_ROADS_PT
Definition	Flag to indicate if there is evidence of sediment delivery to the channel.
Required/Optional	Required
Domain (Valid Values)	dom_YN_NR
Data Type	String (1)

7.47 SIZE_LIMIT_CRITERIA

Geodatabase Name	SIZE_LIMIT_CRITERIA
BLM Structured Name	Size_Limit_Criteria_Code
Alias Name	None
Inheritance	Not Inherited
Feature Class Use/Entity Table	BMP_CWA_W_FISH_HAB_PT
Definition	Flag to indicate if the project meet ODFW or ARBO II criteria for size limitations. (RMP WO BMP R17)
Required/Optional	Required
Domain (Valid Values)	dom_YN_NR
Data Type	String (1)

7.48 SKIDTRAIL_GRT35PCT

Geodatabase Name	SKIDTRAIL_GRT35PCT
BLM Structured Name	Skid_Trails_Slope_Greater_35_Percent_Code
Alias Name	None
Inheritance	Not Inherited
Feature Class Use/Entity Table	BMP_CWA_W_HARV_GROUND_PT
Definition	Flag to indicate if new skid trails are on slopes greater than 35%. (RMP WO BMP TH13)
Required/Optional	Required
Domain (Valid Values)	dom_YN_NR
Data Type	String (1)

7.49 SKIDTRAIL_LESS15PCT_UNIT

Geodatabase Name	SKIDTRAIL_LESS15PCT_UNIT
BLM Structured Name	Skid_Trail_Network_Covers_Less_35_Percent_Unit
Alias Name	None
Inheritance	Not Inherited
Feature Class Use/Entity Table	BMP_CWA_W_HARV_GROUND_PT
Definition	Flag to indicate if the skid trail network covers less than 15% of the unit area, i.e., reuse of old skid trails. (RMP WO BMP TH14) Record unit #s in the comments field.
Required/Optional	Required
Domain (Valid Values)	dom_YN_NR
Data Type	String (1)

7.50 SPILL_CNTMT_PLAN

Geodatabase Name	SPILL_CNTMT_PLAN
BLM Structured Name	Spill_Containment_Plan_Code
Alias Name	None

Inheritance	Not Inherited
Feature Class Use/Entity Table	BMP_CWA_W_FISH_HAB_PT, BMP_CWA_W_REC_PT
Definition	Flag to indicate if a spill containment plan was created so that spills could not enter the water body. (RMP WO BMP SP03)
Required/Optional	Required
Domain (Valid Values)	dom_YN_NR
Data Type	String (1)

7.51 STRM_BANK_EROSION

Geodatabase Name	STRM_BANK_EROSION
BLM Structured Name	Stream_Bank_Erosion_Code
Alias Name	None
Inheritance	Not Inherited
Feature Class Use/Entity Table	BMP_CWA_W_FISH_HAB_PT, BMP_CWA_W_FISH_PASS_PT, BMP_CWA_W_REC_PT
Definition	Flag to indicate if there is evidence of new stream bank erosion.
Required/Optional	Required
Domain (Valid Values)	dom_YN_NR
Data Type	String (1)

Data Type	String (1)
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7.52 STRM_CROSSING_CRITERIA

Geodatabase Name	STRM_CROSSING_CRITERIA
BLM Structured Name	Stream_Crossing_Criteria_Code
Alias Name	None
Inheritance	Not Inherited
Feature Class Use/Entity Table	BMP_CWA_W_REC_PT
Definition	Flag to indicate if the project stream crossings meet ODFW or ARBO II criteria. (RMP WO BMP REC15)
Required/Optional	Required

Domain (Valid Values)	dom_YN_NR
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7.53 TRASH_PUMP_ISOLATED

Geodatabase Name	TRASH_PUMP_ISOLATED
BLM Structured Name	Trash_Pump_Isolated_Code
Alias Name	None
Inheritance	Not Inherited
Feature Class Use/Entity Table	BMP_CWA_W_FISH_PASS_PT
Definition	Flag to indicate if the trash pump was isolated from the stream so that fuel could not enter the water body. (RMP WO BMP SP03)
Required/Optional	Required
Domain (Valid Values)	dom_YN_NR
Data Type	String (1)

7.54 TRL_DISCONNECTED

Geodatabase Name	TRL_DISCONNECTED
BLM Structured Name	Trail_Disconnected_Code
Alias Name	None
Inheritance	Not Inherited
Feature Class Use/Entity Table	BMP_CWA_W_REC_PT
Definition	Flag to indicate if the trails were hydrologically disconnected from streams and approaches hardened. (RMP WO BMP REC20)
Required/Optional	Required
Domain (Valid Values)	dom_YN_NR
Data Type	String (1)

7.55 TURBIDITY_MONITORED

Geodatabase Name	TURBIDITY_MONITORED
BLM Structured Name	Turbidity_Monitoried_Code
Alias Name	None

Inheritance	Not Inherited
Feature Class Use/Entity Table	BMP_CWA_W_FISH_HAB_PT, BMP_CWA_W_FISH_PASS_PT, BMP_CWA_W_REC_PT
Definition	Flag to indicate if turbidity was monitored during the activity for ARBO II projects. (RMP WO BMP R17)
Required/Optional	Required
Domain (Valid Values)	dom_YN_NR
Data Type	String (1)

7.56 VERSION_NAME

Geodatabase Name	VERSION_NAME
BLM Structured Name	Geodatabase_Version_Text
Alias Name	None
Inheritance	Inherited from ODF
Feature Class Use/Entity Table	BMP_CWA_W_FISH_HAB_PT, BMP_CWA_W_FISH_PASS_PT, BMP_CWA_W_HARV_AERIAL_PT, BMP_CWA_W_HARV_GROUND_PT, BMP_CWA_W_REC_PT, BMP_CWA_W_ROADS_PT
Definition	<p>Name of the corporate geodatabase version previously used to edit the record.</p> <p>InitialLoad = feature has not been edited in ArcSDE.</p> <p>Format: username.XXX-mmddy-hhmmss = version name of last edit (hours might be a single digit; leading zeros are trimmed for hours only). XXX=theme abbreviation.</p> <p>Example: sfrazier.FIRE_POLY-121210-111034</p> <p>Only appears in the transactional (edit) version. Public version (which is also the version used internally for mapping or analysis) does not contain this attribute.</p>
Required/Optional	Required (automatically generated)
Domain (Valid Values)	No domain
Data Type	String (50)

7.57 WEED_FREE_SEED

Geodatabase Name	WEED_FREE_SEED
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BLM Structured Name	Weed_Free_Seed_Code
Alias Name	None
Inheritance	Not Inherited
Feature Class Use/Entity Table	BMP_CWA_W_FISH_HAB_PT, BMP_CWA_W_REC_PT
Definition	Flag to indicate if disturbed areas were revegetated with weed free seed or mulched to prevent erosion. (RMP WO BMP R63, REC30)
Required/Optional	Required
Domain (Valid Values)	dom_YN_NR
Data Type	String (1)

7.58 YARD_CORR_PERP

Geodatabase Name	YARD_CORR_PERP
BLM Structured Name	Yarding_Corridors_Perpendicular_Code
Alias Name	None
Inheritance	Not Inherited
Feature Class Use/Entity Table	BMP_CWA_W_HARV_AERIAL_PT
Definition	Flag to indicate if yarding corridors across riparian areas were perpendicular to the stream. (RMP WO BMP TH03, TH04)
Required/Optional	Required
Domain (Valid Values)	dom_YN_NR
Data Type	String (1)

7.59 YARD_DEBRIS_CONC

Geodatabase Name	YARD_DEBRIS_CONC
BLM Structured Name	Yarding_Debris_Concentrated_Code
Alias Name	None
Inheritance	Not Inherited
Feature Class Use/Entity Table	BMP_CWA_W_HARV_AERIAL_PT
Definition	Flag to indicate if the yarding debris was concentrated at the landing site. (RMP WO BMP F02)

Required/Optional	Required
Domain (Valid Values)	dom_YN_NR
Data Type	String (1)

7.60 YRS_WK_COMPLT

Geodatabase Name	YRS_WK_COMPLT
BLM Structured Name	Years_Work_Completed_Text
Alias Name	None
Inheritance	Not Inherited
Feature Class Use/Entity Table	BMP_CWA_W_FISH_HAB_PT, BMP_CWA_W_FISH_PASS_PT, BMP_CWA_W_HARV_AERIAL_PT, BMP_CWA_W_HARV_GROUND_PT, BMP_CWA_W_REC_PT, BMP_CWA_W_ROADS_PT
Definition	The year or years the work was completed.
Required/Optional	Optional
Domain (Valid Values)	No domain. Example: “2018”, “2017-2018”
Data Type	String (10)

8. LAYER FILES (PUBLICATION VIEWS)

8.1 GENERAL

Master corporate feature classes/datasets maintained in the edit database (currently ORSOEDIT) are “published” to the user database (currently ORSOVCTR) in several ways:

- A. Copied completely with no changes (replicated).
- B. Copied with no changes except to omit one or more feature classes from a feature dataset.
- C. Minor changes made (e.g., clip, dissolve, union with ownership) in order to make the data easier to use. Feature classes that have been changed are indicated by “PUB” in their name. They are created through scripts that can be automatically executed and are easily rebuilt from the master (ORSOEDIT) data whenever necessary.

Layer files are not new data requiring storage and maintenance but point to existing data. They have appropriate selection and symbolization for correct use and display of the data. They provide the

guidance for data published on the web. Layer files are created by simple, documented processes, and can be deleted and recreated at any time.

8.2 SPECIFIC TO THIS DATASET

Publication datasets will be created for BMP_CWA that meet these requirements:

- Six stand-alone BMP_CWA datasets will be created from the six individual feature classes.
- The six BMP_CWA sub-class feature classes will be appended to the larger sample point's dataset.
 - The optional attribute fields in the Sample Point dataset that are not included in the BMP_CWA are to be left blank when the data are appended. These fields include: SAMPLE_ID, SAMPLE_GRP, SAMPLE_METH, ESTABLISH_DT, DIRECTION, LENGTH_FT, RATING2, RATING3, OTHERNAME, and FILEPATH.
- Attribute fields that reference staff names will be removed from the Sample Points dataset and the six stand-alone BMP_CWA datasets before publishing to public-facing websites. This includes the following fields: CLASSIFIER, MAINT_CREW, VERSION_NAME.

The BMP_CWA datasets have photo attachments enabled. Photos are required when the rating code is something other than meets. That is, if no sediment is delivered to stream channels from any source, then no photo is required. Otherwise, a photo is required.

9. EDITING PROCEDURES

BMP_CWA sample points are intended as single visit, point-in-time, effective monitoring points. BMP are in iterative process that includes monitoring and modification where needed. This cyclic process means that subsequent visits to the same location will result in new data collection and not an update to a previous visit. Therefore, no edits to modify the data are expected outside of operation and maintenance (O&M) activities such as the removal of erroneous information, e.g., unintentional duplicate records.

9.1 MANAGING OVERLAP (GENERAL GUIDANCE)

Overlapping points are allowed in this dataset. Editors should check for and delete unintentional duplicate records, i.e., stacked records with exactly the same attribution.

9.2 EDITING AND QUALITY CONTROL GUIDELINES

Data QC checks will be done on submission of the data to ensure integrity between attributes.

- SAMPLE_TYPE must equal "BMP" in order to crosswalk into a valid SAMPLE_TYPE domain value.

9.3 SNAPPING GUIDANCE

Sometimes, but not always, a BMP_CWA point should be snapped to existing GIS features, such as a road, stream, or culvert.

9.4 VERTICAL INTEGRATION

When the intent of the monitoring point is coincident with a stream, culvert, road, or trail, then the BMP_CWA and the corresponding data layer should be vertically integrated. Judgement, and documented data accuracy, should be used to assess which dataset holds the higher accuracy. The less accurate dataset should be snapped to the dataset with the higher accuracy. For example, if the linear stream has been delineated using lidar, then it is likely the point should be snapped to the stream. It is possible the location of the BMP_CWA and the corresponding data layer will both need to be moved to reach the highest accuracy.

9.5 THEME SPECIFIC GUIDANCE

The BMP_CWA datasets represent monitoring data collected in the field.

When data collected in a mobile collection application, the following post-processing steps will be completed on import to ArcGIS:

- The CLASSIFIER will be populated from CREATED_USER. The BLM domain values will be stripped so that only the AD user name is populated in CLASSIFIER. CLASSIFIER can be modified to include additional names and/or to change the format of the name prior to version submission.
- The LASTVISIT_DT will be populated from CREATED_DATE, which is automatically captured from the device.

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10. OREGON/WASHINGTON DATA FRAMEWORK OVERVIEW

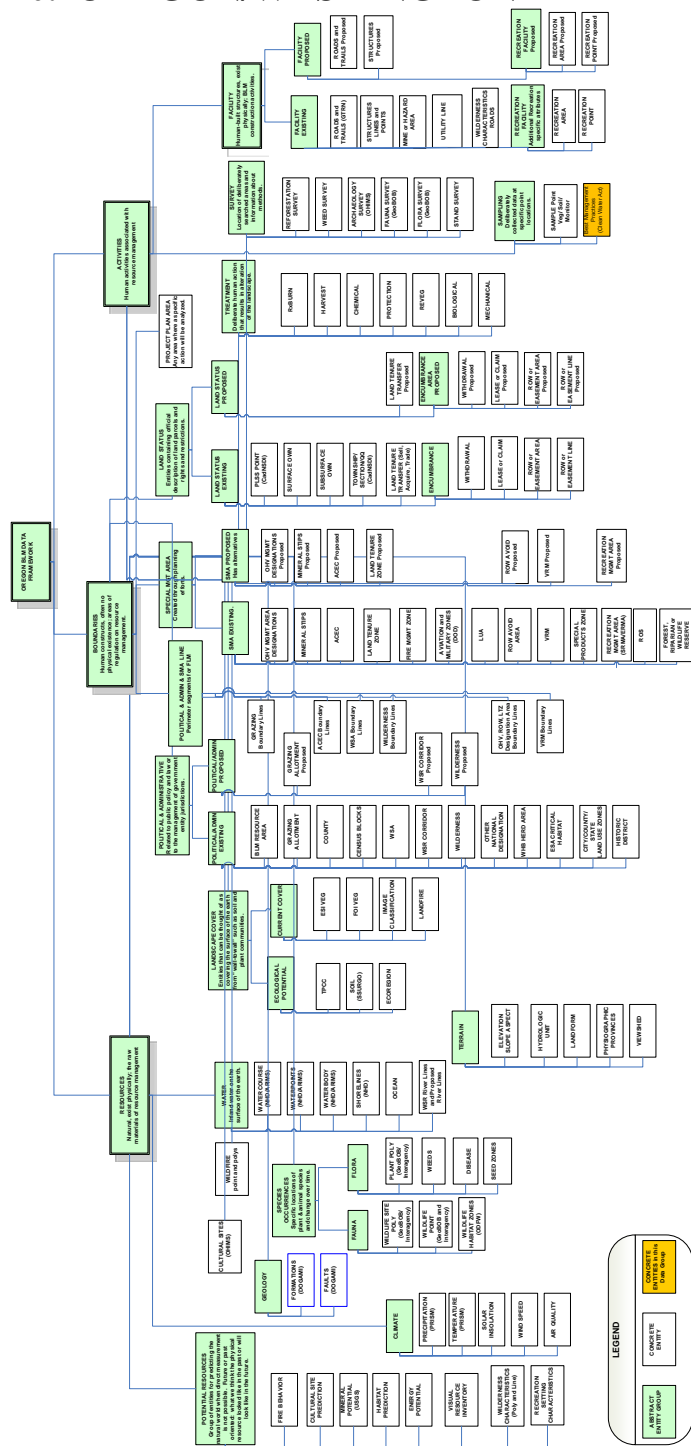


Figure 2 Oregon Data Framework Overview

11. ABBREVIATIONS AND ACRONYMS USED

(Does not include abbreviations/acronyms used as codes for particular data attributes or domain values)

Abbreviations	Descriptions
ARC	GIS line feature
ARBO II	Aquatic Restoration Biological Opinion II
BLM	Bureau of Land Management, U.S. Department of the Interior
BMP	Best Management Practices
CADNSDI	Cadastral National Spatial Data Infrastructure
CWA	Clean Water Act
DEM	Digital Elevation Model
DLG	Digital Line Graphs
FOIA	Freedom of Information Act
GIS	Geographic Information System
GPS	Global Positioning System
GTRN	Ground Transportation GIS dataset
IDP	Interdisciplinary
NAD	North American Datum
NARA	National Archives and Records Administration
NEPA	National Environmental Policy Act
POLY	GIS polygon feature
PUB	Publication
RMP	Resource Management Plan
ODF	Oregon Data Framework
OR/WA	Oregon/Washington BLM Administrative State
USFS	United States Forest Service, U.S. Department of Agriculture
USGS	United States Geological Survey, U.S. Department of the Interior
SDE	Spatial Database Engine
WEB	Worldwide Web (internet)

Table 2 Abbreviations/Acronyms Used

APPENDIX: DOMAINS (VALID VALUES)

These are the domains at the time the data standard was approved. Domains can be changed without a re-issue of the data standard. Some of the domains used in this data standard are also available at the following web site:

<https://www.blm.gov/about/data/oregon-data-management>

For domains not listed at that site contact the [State Data Administrator](#) for current lists. The State Data Administrator’s contact information can be found at:

<https://www.blm.gov/about/data/oregon-data-management>

A.1 dom_COORD_SRC

Coordinate Source Code. The source of the geographic coordinates (lines, points, polygons).

CADNSDI	CADNSDI – Lines from or snapped to the CADNSDI dataset
CFF	CFF – Lines duplicated or buffered from Cartographic Feature Files (USFS)
DEM	DEM – Digital Elevation Model (30m or better accuracy) used for creation of contours
DIS	DIS – Lines generated to connect discontinuous features
DLG	DLG – Lines duplicated or buffered from (24K scale accuracy) USGS Digital Line Graphs
DOQ	DOQ – Screen digitized linework over Digital Orthoquad backdrop
DRG	DRG – Screen digitized linework over Digital Raster Graphic backdrop
GCD	GCD – Lines snapped to Geographic Coordinate Database Points
GPS	GPS – Lines obtained from a Global Positioning System device
IMG	IMG – Linework derived from interpretation of satellite or other non-photographic imagery
MAP	MAP – Digitized linework from hardcopy map
MTP	MTP – Lines duplicated from Digital Master Title Plat
SOURCEL	SOURCEL – Source Layer from BLM GIS
SRV	SRV – Survey methods were used to create the linework (e.g., COGO)
TIGER	TIGER – Tiger Data
TRS	TRS – Coordinates only given as a legal description (township, range, section)
UNK	UNK – Unknown coordinate source
WOD	WOD – WODDB Photogrammetric

A.2 dom_SAMPLE_TYPE

Sample Type Code. The purpose for taking the sample. The following is a subset of the full domain that represents those values that are valid for this data standard.

BMP	BMP – Best Management Practices for the Clean Water Act

A.3 dom_BMP_CWA_Rating

Best Management Practices Rating Code. Code to indicate the Best Management Practice rating.

Meets	Meets – No sediment is delivered to stream channels from any source.
Minor Departure	Minor Departure – Sediment delivered to ditch or off site but not to stream channel.
Major Departure	Major Departure – Sediment is delivered to stream channel or item was not completed. List required actions to remedy departure.

A.4 dom_BMP_CWA_RoadSurface

Best Management Practices Road Surface Code. Code for recording the surface of the road.

Paved	Paved
Rocked	Rocked
Native	Native

A.5 dom_YN

Yes No Code. Code to indicate a positive, negative, or unknown response.

Y	Yes
N	No
U	Unknown

A.6 dom_YN_NR

Yes No Not Reviewed Code. Code to indicate a positive, negative, not reviewed, or unknown response.

Y	Yes
N	No
NR	Not Reviewed
U	Unknown