Idaho Technology Authority (ITA)

ENTERPRISE STANDARDS – S4000 – INFORMATION AND DATA

Category: S4227 – Boat Ramp and Public Dock Layer and Data Standard

CONTENTS:

I. DEFINITION

See ITA Guideline G105 (ITA Glossary of Terms) for definitions.

II. RATIONALE

A statewide Boat Ramp and Public Dock layer and data standard, which is part of the Transportation data theme is a critical source of information for the public in general as well as government agencies and organizations throughout Idaho. Boat Ramp and Public Dock data supports those groups by providing locations and names for water access points.

III. APPROVED STANDARD(S)

See Attachment

IV. APPROVED PRODUCT(S)

Any GIS Software, either desktop or online, capable of processing and displaying Open Geospatial Consortium (OGC) Web Map Standard (WMS) services.

V. JUSTIFICATION

A statewide Boat Ramp and Public Dock dataset is a critical source of information as stated under 'II Rationale' in this standard. A data standard supports the use of the Boat Ramp and Public Dock to facilitate a predictable format, improve collaboration and encourage use of this dataset.

VI. TECHNICAL AND IMPLEMENTATION CONSIDERATIONS

Any GIS Software, either desktop or online, capable of processing and displaying Open Geospatial Consortium (OGC) Web Map Standard (WMS) services.

VII. EMERGING TRENDS AND ARCHITECTURAL DIRECTIONS

Data will be shared in accordance with ITA Standard S4250 – Enterprise Geographic Information System (GIS) Data Sharing Standards.

VIII. PROCEDURE REFERENCE

The format, content and development of this standard adhere to Policy P5030 - Framework Standards, ITA Standard S4250 - Data Sharing Standards and ITA Standard S4220 - Geospatial Metadata.

IX. REVIEW CYCLE

Review of the standard will occur annually.

X. CONTACT INFORMATION

For more information, contact the ITA Staff at (208) 605-4000.

REVISION HISTORY

05/15/2025 – Standard Presented to the IGC-EC

STATE OF IDAHO

Idaho Boat Ramp and Public Dock Data Standard

Part of the Transportation Theme

Version 1
Effective May 15, 2025

Developed by the Transportation Technical Working Group

Contact
ITA Staff
Office of Information Technology Services
(208) 605-4000
contact@its.idaho.gov

CONTENTS

1. Introduction to the Idaho Boat Ramp and Public Docks Data Standard

A statewide Boat Ramp and Public Dock data layer is a critical source of information for the public generally, government agencies and organizations throughout Idaho. These groups will benefit from this data because it provides locations and names for water access points. Many private sector organizations as well as local, state, and federal government agencies have a business need for Boat Ramp and Public Dock data.

A Boat Ramp and Public Dock Standard is intended to facilitate integration and sharing of up-to-date Boat Ramp and Public Dock data and enhance the dissemination and use of Boat Ramp and Public Dock information. This standard does not instruct on how Boat Ramp and Public Dock databases are designed for internal use.

This standard was developed by the Transportation Technical Working Group, a subgroup of the Idaho Geospatial Council – Executive Committee (IGC-EC). This standard will be reviewed on an annual basis and updated as needed.

1.1. **Mission and Goals of the Standard**

The Boat Ramp and Public Dock Standard supports a statewide dataset that is consistent with applicable state and national standards. It establishes the minimum attributes and geospatial database schema for the Boat Ramp and Public Dock Framework. The standard will communicate with, and may have similar attributes to, other Idaho framework data standards. It encourages all Idaho-based agencies with geospatial Boat Ramp and Public Dock data to contribute to Boat Ramp and Public Dock Framework.

The Boat Ramp and Public Dock Framework will be appropriately shared and will be beneficial to all. The fields in the Boat Ramp and Public Dock Data Exchange Standard will be generalized to incorporate basic information without requiring major changes in internal data models. This standard allows for expansion to a more complex data structure and schema.

1.2. **Relationship to Existing Standards**

This Boat Ramp and Public Dock Exchange Standard relates to existing standards as follows: Metadata is provided in accordance with ITA Standard S4220 - Geospatial Metadata, and this standard is created and approved in accordance with ITA Policy P5030 - Framework Standards Development Policy. Where possible, water body names should match the names listed in ITA Standard S4233 - Hydrography Data Exchange Standard

1.3. **Description of the Standard**

This standard describes the vision and geospatial data structure of a Boat Ramp and Public Dock Framework in the state of Idaho. This standard is devised to be:

- Simple, easy to understand, and logical
- Uniformly applicable, whenever possible
- Flexible and capable of accommodating future expansions
- Dynamic in terms of continuous review

1.4. **Applicability and Intended Uses**

This standard applies to the Boat Ramp and Public Dock element of the Transportation theme of The Idaho Map (TIM).

When implemented this standard will enable access and exchange of data. A predictable standard will support data collaboration, improve data collaboration, help identify and report errors and allow agencies to incorporate this data into their own data products.

This standard does not consider data sharing agreements, contracts, transactions, privacy concerns, or any other issues relating to the acquisition and dissemination of Boat Ramp and Public Dock data.

1.5. **Standard Development Process**

The Transportation Technical Working Group is a voluntary group of private, city, county, tribal, state, and federal representatives. On 3/19/2025 the Boat Ramp and Public Dock Lead began developing the standard for the Boat Ramp and Public Dock Framework. This standard was then reviewed and edited by the members of the Transportation Technical Working Group.

After initial development the draft standard document was shared with the Idaho Geospatial Council (IGC) in accordance with the review and approval process described in ITA Policy P5030 - Framework Standards Development.

The standard was presented to the IGC-EC in May 2025

1.6. **Maintenance of the Standard**

This standard will be reviewed yearly and in accordance with the ITA Policy (P5030) - Framework Standards Development.

2. **Body of the Standard**

2.1. **Scope and Content**

The scope of the Boat Ramp and Public Dock Data Exchange Standard is to describe a statewide layer which identifies the physical locations and attributes of Boat Ramp and Public Docks in Idaho.

2.2. **Need**

Boat Ramp and Public Docks are a key dataset needed for the public generally, government agencies, and organizations throughout Idaho. This standard provides the foundation to aggregate Boat Ramp and Public Dock data for centralized access and stewardship information.

With Idaho having so many water bodies and waterways, boat ramp and public dock data is critical. It is important for the public and government agencies to know the locations where watercraft can enter and exit those water features.

2.3. **Participation in Standard Development**

The development of the Boat Ramp and Public Dock Data Exchange Standard adheres to the ITA Policy (P5030) - Framework Standards Development. The Transportation Standard Team tasked with developing this standard invite input and comments from private, county, state, and federal organizations. As the standard is reviewed in accordance with ITS Policy P5030 requirements, there will be an opportunity for broad participation and input by stakeholders in the development of this standard. The process will be equally broad for input on updates and enhancements to the standard. As with all Idaho Framework standards, public review and comments on the Boat Ramp and Public Dock Data Exchange Standard is encouraged.

2.4. **Integration with Other Standards**

The Boat Ramp and Public Dock Data Standard follows the same format as other Idaho geospatial framework data standards. The Boat Ramp and Public Dock standard may contain some of the same attributes as other framework standards and may adopt the field name, definition, and domain from the other standards to promote consistency.

2.5. **Technical and Operation Context**

2.5.1. **Data Environment**

The data environment is a digital vector point with a specific, standardized set of attributes pertinent to the Boat Ramp and Public Dock Framework. Boat Ramp and Public Dock data shared under this standard must be in a format supporting vector points.

2.5.2. **Reference Systems**

The Boat Ramp and Public Dock Framework will be published in the IDTM83 coordinate system, which is the State of Idaho's single zone coordinate system. Data is not required to be submitted in the Idaho Transverse Mercator NAD83 (IDTM83) coordinate system but must have a defined coordinate system clearly described in the metadata.

2.5.3. **Global Positioning Systems (GPS)**

Some data provided might contain data collected using GNSS methods such as GPS, and the provided metadata should describe this, if applicable. Geometry from GPS sources is not required to meet this standard.

2.5.4. **Interdependence of Themes**

Attributes found in the Boat Ramp and Public Dock layer are related to the attributes found in the published Hydrography and forthcoming County Boundary datasets.

2.5.5. **Encoding**

When data is imported into and exported from the Boat Ramp and Public Dock Framework, encoding will take place to convert data formats and attributes.

2.5.6. **Resolution**

No specific requirements for resolution are specified in this standard. Resolution will be documented in the metadata.

2.5.7. **Accuracy**

A framework layer for Boat Ramps and Public Docks should incorporate data from government organizations, including local, state and federal representation. All effort should be made to ensure the most accurate representation of the locations and names of features, but there is no definite accuracy standard required.

2.5.8. **Edge Matching**

No edge matching is required between jurisdictions, or between this and other framework layers.

2.5.9. **Unique Identifier**

The FIPS Asset ID field is the unique identifier for Boat Ramp and Public Dock data. This is a concatenation of the county FIPS code, a 2-digit type code, and a 4-digit alphanumeric identifier. This field should be unique to each item in the dataset.

2.5.10. **Attributes**

Attributes for public and intergovernmental distribution are described in Section 3 of this standard.

2.5.11. **Stewardship**

Perpetual maintenance and other aspects of lifecycle management are essential to Boat Ramp and Public Dock Framework. Details of stewards, their roles and responsibilities, and processes are set forth, or are being planned to set forth in a Boat Ramp and Public Dock Framework Stewardship Plan and related documents.

2.5.12. **Records Management and Archiving**

The dataset is hosted by the State of Idaho, and publicly available on the Open Data site.

2.5.13. **Metadata**

The Boat Ramp and Public Dock Framework metadata will describe the methods used to update and aggregate the individual Boat Ramp and Public Dock data contributions, processes or crosswalks performed, definition of attributes, and other required information. This metadata will conform to the metadata standards as set out in ITA Standard S4220 - Geospatial Metadata.

3. **Data Characteristics**

3.1. **Minimum Graphic Data Elements**

The geometry of the features in Boat Ramp and Public Dock Framework is vector point

3.2. **Optional Graphic Data Elements**

Not applicable.

3.3. **Standard Attribute Schema**

Field Name	Data Type	Length	Description	Examples
county	Text	150	County Name	Ada
FIPS	Text	20	Government Issued County Code	16001
FIPS_asset_ID	Text	50	Unique ID field - FIPS Code, Type Code, and alphanumeric 4 digit code combined.	16001-BR-2d65
waterbody_type	Text	20	Waterbody Type	Lake/Reservoir
waterbody	Text	150	Waterbody Name	Coeur d'Alene Lake
site_name	Text	150	Ramp or Dock Name	Ahsahka
alternative_name	Text	150	Alternative Ramp/Dock Name	Ahsahka 1
manager	Text	150	Site Manager Name/Agency	Corps of Engineers
boat_ramp	Text	20	Ramp Material	Concrete
ramp_condition	Text	20	Ramp Condition	Good
ramp_lanes	Double		Number of Ramp Lanes	2

boat_ramp_suitability	Text	20	Watercraft Size Limitation	Medium (12’-20’)
ramp_latitude	Double		Latitude	47.67134275
ramp_longitude	Double		Longitude	-116.78283481
Dock	Text	10	Is a dock present?	Yes
dock_count	Double		Number of Docks Present	1
amenities	Text	150	Amenities available at site.	Swimming
ada_accessible	Text	150	ADA Accessible Features	ADA Parking
public_info_notes	Text	2000	Public Information	Seasonal Site, Water Level Fluctuates.

3.4. **Data Quality**

Data quality considerations for Boat Ramp and Public Docks include:

a) All Boat Ramp and Public Docks should have Boat Ramp and Public Dock IDs.

Appendix A: References

Idaho Technology Authority (ITA). *Information and Data Policy P5000, Category: P5030 Framework Standards Development Policy.* https://ita.idaho.gov/psg/P5030.pdf

Idaho Technology Authority (ITA). *Enterprise Standards S4000 Geographic Information Systems (GIS) Data, Category: S4220 Geospatial Metadata.* https://ita.idaho.gov/psg/S4220.pdf

Appendix B: Glossary

See ITA Guideline G105 - (ITA Glossary of Terms) for definitions.