

Document and share your methods and protocols.
Plan your study plans and sample designs.
Track your monitoring locations.

DOCUMENT

Discover other's monitoring locations.
View monitoring metadata and data repository.
Export maps and spreadsheets of metadata.

DISCOVER

Protocols In MonitoringResources.org

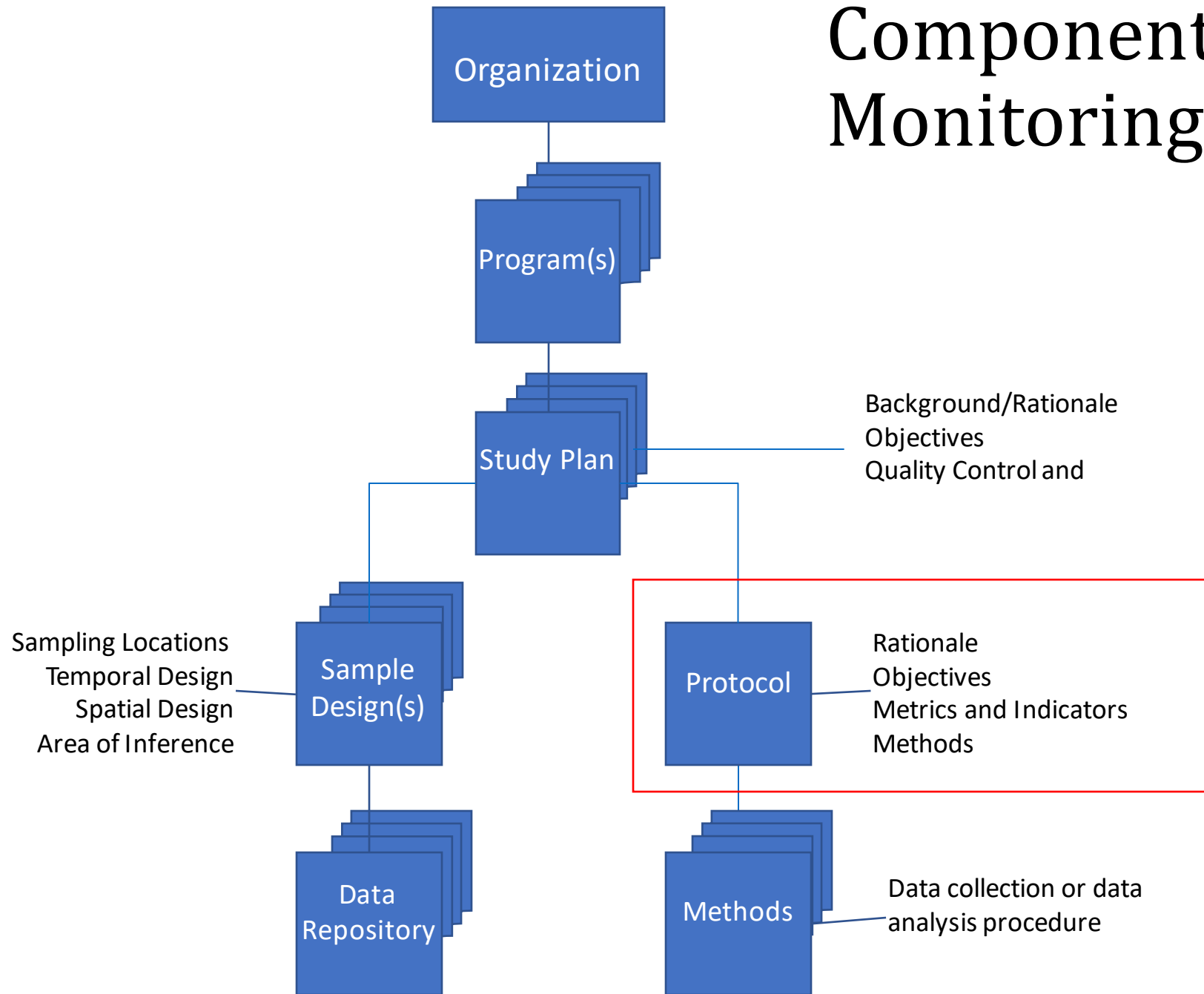
Table Of Contents

General MonitoringResources.org Tips	<u>3</u>
Components of MonitoringResources.org	<u>4</u>
Workflow for MonitoringResources.org	<u>5</u>
What is a Protocol?	<u>6</u>
Tips for Protocols in MonitoringResources.org	<u>8</u>
Find Protocols	<u>9</u>
Create or Search for Protocols	<u>10</u>
Versioning Protocols	<u>13</u>
Clone a Protocol	<u>15</u>
Edit Basics & Objectives	<u>16</u>
Add Methods to a Protocol	<u>17</u>
Customizing Methods In a Protocol	<u>18</u>
Mapping Methods to Metrics and Indicators in a Protocol	<u>19</u>
Request Finalizing of a Protocol	<u>20</u>
Protocol Review Process	<u>22</u>

General MonitoringResources.org Tips

- Login to Edit!
- If you have a question, check the **FAQ** or **glossary** in MonitoringResources.org.
- Only owners and colleagues can edit draft content or make new versions of finalized protocols.
- Components must be **Finalized** (formerly called “Published”).
- You can make new versions of your own content or clone other’s published content.
- Within components, red asterisk fields * are required.

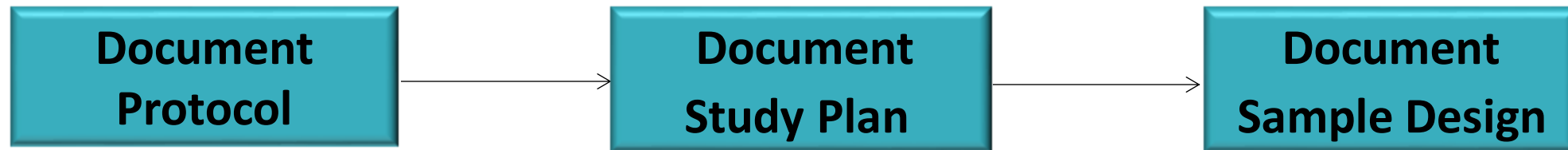
Components of MonitoringResources.org



Workflow for MonitoringResources.org

If you have a new project to document, login into MonitoringResources.org, then follow these steps:

1. Create and finalize a Protocol.
2. Create a Study Plan. In the Study Plan, link to your Protocol.
3. Create a Sample Design. In the Sample Design, link to your Study Plan.



After you complete the documentation, you can perform your field work. After performing field work for the season or the year, you can return to your Sample Design to revise planned locations to document the actual locations that you sampled, for the dates you sampled, and add post-implementation notes about each site sampled. You can use this same workflow to complete drafts of metadata that you or a colleague started some time ago.

What is a Protocol?

1000

MONITORING PROTOCOL GUIDELINES

Guidelines for long-term monitoring protocols

Karen L. Oakley, Lisa P. Thomas, and Steven G. Fancy

Abstract Monitoring protocols are detailed study plans that explain how data are to be collected, managed, analyzed, and reported, and are a key component of quality assurance for natural resource monitoring programs. Protocols are necessary to ensure that changes detected by monitoring actually are occurring in nature and not simply a result of measurements taken by different people or in slightly different ways. We developed and pres-

Wildlife Society Bulletin 2003, 31(4):1000–1003

Peer edited

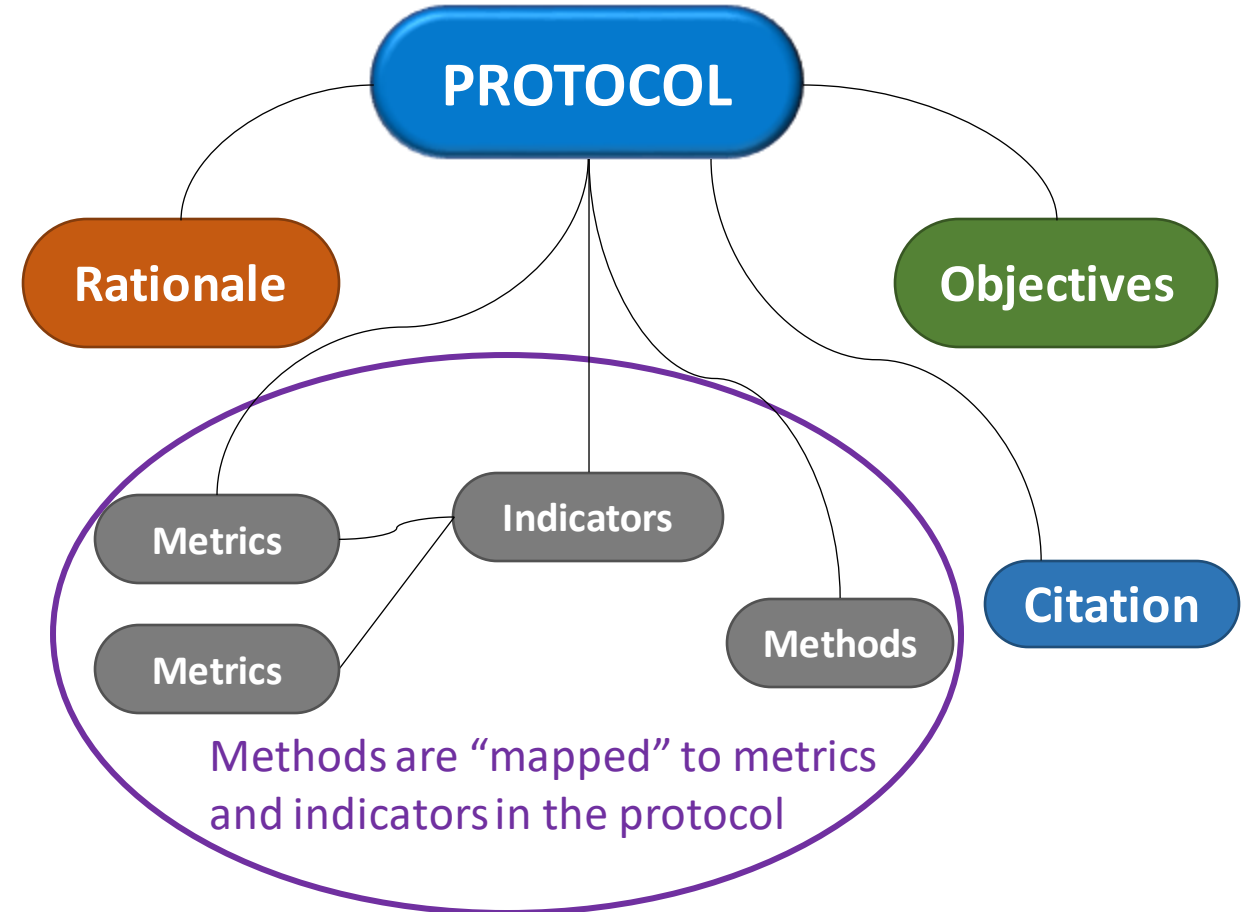
“Protocols are necessary to ensure that changes detected by monitoring actually are occurring in nature and not simply a result of measurements taken by different people or in slightly different ways.”

What is a Protocol?

A Protocol is a research plan that explains how data are to be collected, managed, analyzed, and reported.

In MonitoringResources.org, the Protocol is the full documentation of the step-wise process used to collect and/or analyze the data.

A fully defined Protocol includes [Objectives](#), [Methods](#), [Metrics](#), [Indicators](#) and other elements.



Tips for Protocols in MonitoringResources.org

- A Protocol describes a planned or proposed approach for conducting work.
- A Protocol documents metrics, indicators, and methods used to obtain the variables. A Protocol can document both data collection and data analysis.
- Attach each Protocol to a Study Plan.
- A Protocol can have multiple data collection and data analysis methods.
- **Data analysis only** Protocols can be, for example, a population analysis that includes habitat covariates and genetic variables, all collected from different areas, possibly with different study plans and data summarizations.
- Implementation of your finalized Protocol may vary during the year due to unforeseen circumstances; the protocol does not need to be updated for minor inter-annual variations. Those variations can be documented in annual "Post-implementation Notes" or as a new version of the Protocol. Post-implementation notes should be attached to a finalized Protocol as a comment and documented in a finalized annual report. See the [Monitoring Resources](#) glossary for full definitions of terms.
- Update your Protocol when:
 - you modify methodologies or remove a study element (Metric or Indicator), you should develop a new Protocol **version**. If elements and methodology remain consistent from year to year, Protocols don't need to be updated.
 - a Protocol doesn't reflect the work described in the study element (or work element for BPA projects).

Search for Protocols

Keyword Search

Filter by Pull Down Items

The screenshot shows the 'Monitoring Resources' website interface. At the top, there is a navigation bar with 'Welcome PNAMP', 'Log Out', 'Help', and a search box. Below this is a breadcrumb trail: 'HOME | PORTFOLIO | CREATE & FIND | STUDY PLAN SUMMARY | MONITORING EXPLORER | COMMUNITY | LEARN'. The main content area features a 'Home » Protocols' breadcrumb and a navigation menu with 'Organization', 'Monitoring Program', 'Study Plan', 'Sample Design', 'Protocol', and 'Method'. Below the menu are tabs for 'Active Protocols' and 'All Protocols'. A 'List Of Active Protocols' section is visible, with a note: 'This grid only displays Protocols considered to be "Active", so any Finalized Protocols and non-Finalized Protocols where the create/last modified date is less than 12 months old.' Below the note, it says 'Viewing 373 of 373 active protocols.' A table of active protocols is displayed with columns for ID, Protocol Name, State, Program, Year, Owner, Completion, M..., and Last Mod... A green arrow points from the 'Keyword Search' box to the search input field in the table header. Two yellow arrows point from the 'Filter by Pull Down Items' box to the dropdown arrows in the 'State' and 'Program' columns of the table header.

ID	Protocol Name	State	Program	Year	Owner	Com...	M...	Last Mod...
4	Surface Waters Western Pilot Study: Field Operations Manual f	Finalized	EMAP (Environmental Moni	2006	Jacque Schei	45%	22	5/6/2013
5	Okanogan Basin Monitoring & Evaluation Program - Water Qu	Finalized	OBMEP (Okanogan Basin M	2005	John Arterburn	100%	6	3/3/2015
7	Okanogan Basin Monitoring & Evaluation Program - Juvenile	Finalized	OBMEP (Okanogan Basin M	2016	John Arterburn	100%	2	4/21/2016

Search for content

Search for Protocols in the protocol library by:

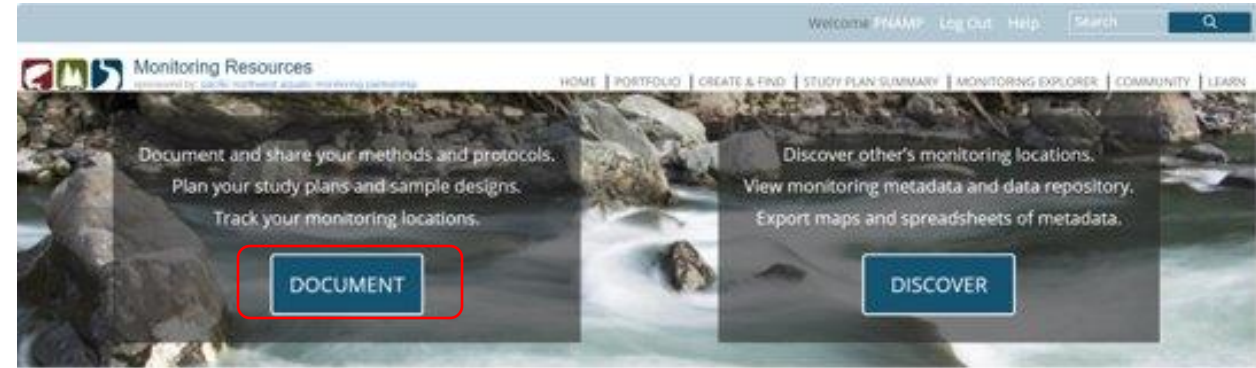
- Use **keywords** in the Protocol Name
- Use columns to filter to:
 - Only see Finalized content
 - Identify a specific Program
 - Identify a Specific Owner

Find Protocols

Create or search for new content

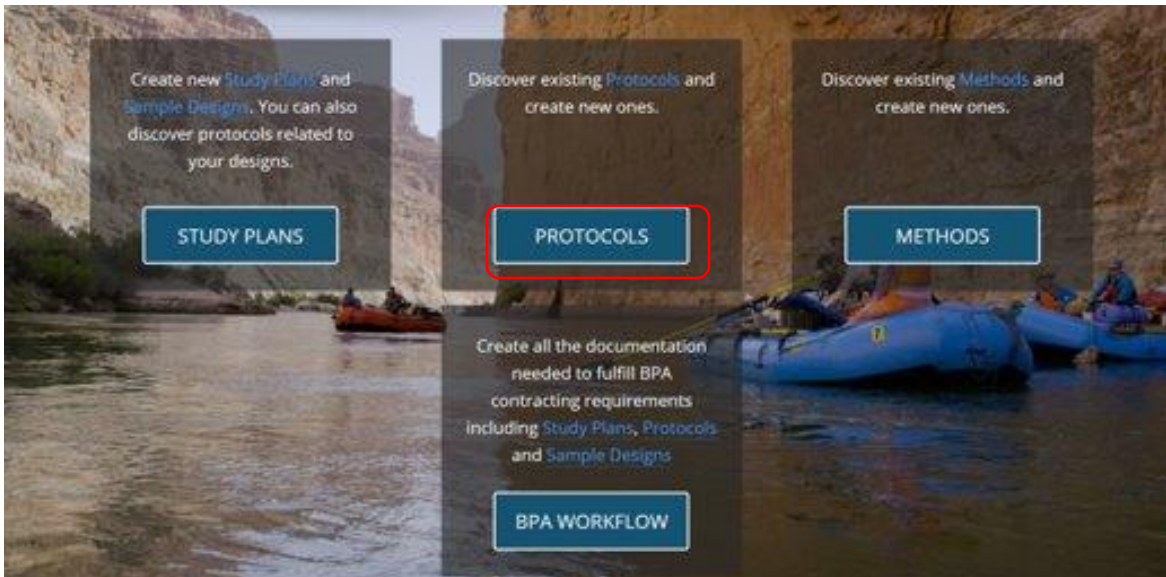
You can search for content without being logged in, but to create content, you must log in to MonitoringResources.org.

From the home page select **DOCUMENT**.



Your Recent Content

- Sample Design: 16889 Wadeable Lotic Sampling (6/6/2023 10:07:10 PM)
- Protocol: 3727 Assessment, Inventory, And Monitoring Of Wadeable Lotic Systems V1.0 (6/5/2023 4:51:23 PM)
- Sample Design: 16883 Yearly Water Quality Samples (4/7/2023 9:57:26 PM)
- Protocol: 3542 AREMP 2019 Field Manual - Regional Interagency Monitoring For The Northwest Forest Plan V2.0 (3/28/2023 6:15:09 PM)
- Method: 3052 Collection And Assessment Of Stream Invertebrates From Stream Debris Piles (4/11/2023 9:03:04 PM)



Then, from the Document homescreen, select the documentation type you would like to create or search for (METHODS, **PROTOCOLS**, or STUDY PLANS).

You can also create all documentation needed to fulfill BPA metadata contracting requirements by selecting BPA WORKFLOW

Search for Protocols

Quick Overview

Active Protocols All Protocols

List Of Active Protocols [Ⓜ]

This grid only displays Protocols considered to be "Active", so any Finalized Protocols and non-Finalized Protocols where the create/last modified date is less than 12 months old.

Viewing 373 of 373 active protocols.

ID	Protocol Name	State	Program	Year	Owner	Com...	M...	Last Mod...
4	Surface Waters Western Pilot Study: Field Operations Manual	Finalized	EMAP (Environmental Mon	2006	Jacque Schei	45%	22	5/6/2013
5	Okanogan Basin Monitoring & Evaluation Program - Water Q	Finalized	OBMEP (Okanogan Basin M	2005	John Arterburn	100%	6	3/3/2015

Okanogan Basin Monitoring & Evaluation Program - Water Quality Sampling v1.0

Methods (5 of 6)

- 11434 - Modified Vertical Stage Measurement v1.0
- 11508 - Modified Water Chemistry (EMAP) v1.0
- 16151 - Modified Stream Cross-sectional Discharge Measurement (wading) v1.0
- 17569 - Modified Download of surface water data collected at streamgaging stations from NWIS v1.0
- 20326 - Modified Ecosystem Diagnosis and Treatment (EDT) v1.0
- More

Metrics (5 of 11)

- 9175 - Conductivity
- 9176 - Dissolved Oxygen
- 9177 - pH
- 9178 - Turbidity
- 9179 - Ammonia
- More

Rationale

OBMEP was developed in an attempt to improve our understanding of the anadromous fish populations and habitat that exists within the Okanogan River basin. OBMEP's water quality/quantity and temperature protocol is designed to document water quality, discharge and temperature changes over time (7-20+ year time frame). Procedures were modeled after the Department of Ecology's water quality protocols. Water quality data collection site selection was designed to fill critical data gaps, select sites that already had some form of historical data collection and to make sure no duplication of effort occurs. Temperature data are collected at all Okanogan River tributary EMAP sites located in the U.S. and Canada.

Objectives

- To monitor the status and trends of water quality and determine potential impacts to salmonids in the Okanogan River Basin.

Citation

Arterburn, J., K. Kistler, M. Rayton. 2005. OBMEP - Field Manual Water Quality Sampling Protocols. Confederated Tribes of the Colville Reservation Version 2005:1 - 18

Search for content

After you've narrowed down your search, you can get a quick overview of a Protocol before committing and opening it up as a new web page.

The overview will provide:

- A list of Methods
- A list of Metrics
- Protocol Rationale
- Protocol Objective(s)
- Citation

Create New Protocols

Create New

Active Protocols All Protocols

List Of Active Protocols [Ⓜ] Collapse All Download Active Protocols **Create Protocol**

This grid only displays Protocols considered to be "Active", so any Finalized Protocols and non-Finalized Protocols where the create/last modified date is less than 12 months old.

Viewing 373 of 373 active protocols.

ID	Protocol Name	State	Program	Year	Owner	Com...	M...	Last Mod...
4	Surface Waters Western Pilot Study: Field Operations Manual	Finalized	EMAP (Environmental Mon	2006	Jacque Schei	45%	22	5/6/2013
5	Okanogan Basin Monitoring & Evaluation Program - Water Q	Finalized	OBMEP (Okanogan Basin M	2005	John Arterburn	100%	6	3/3/2015

Okanogan Basin Monitoring & Evaluation Program - Water Quality Sampling v1.0

Methods (5 of 6)

- [11434 - Modified Vertical Stage Measurement v1.0](#)
 - [11508 - Modified Water Chemistry \(EMAP\) v1.0](#)
 - [16151 - Modified Stream Cross-sectional Discharge Measurement \(wading\) v1.0](#)
 - [17569 - Modified Download of surface water data collected at streamgaging stations from NWIS v1.0](#)
 - [20326 - Modified Ecosystem Diagnosis and Treatment \(EDT\) v1.0](#)
- [More](#)

Metrics (5 of 11)

- 9175 - Conductivity
 - 9176 - Dissolved Oxygen
 - 9177 - pH
 - 9178 - Turbidity
 - 9179 - Ammonia
- [More](#)

Rationale

OBMEP was developed in an attempt to improve our understanding of the anadromous fish populations and habitat that exists within the Okanogan River basin. OBMEP's water quality/quantity and temperature protocol is designed to document water quality, discharge and temperature changes over time (7-20+ year time frame). Procedures were modeled after the Department of Ecology's water quality protocols. Water quality data collection site selection was designed to fill critical data gaps, select sites that already had some form of historical data collection and to make sure no duplication of effort occurs. Temperature data are collected at all Okanogan River tributary EMAP sites located in the U.S. and Canada.

Objectives

- To monitor the status and trends of water quality and determine potential impacts to salmonids in the Okanogan River Basin.

Citation

Arterburn, J., K. Kistler, M. Rayton. 2005. OBMEP - Field Manual Water Quality Sampling Protocols. Confederated Tribes of the Colville Reservation Version 2005:1 - 18

Create new content

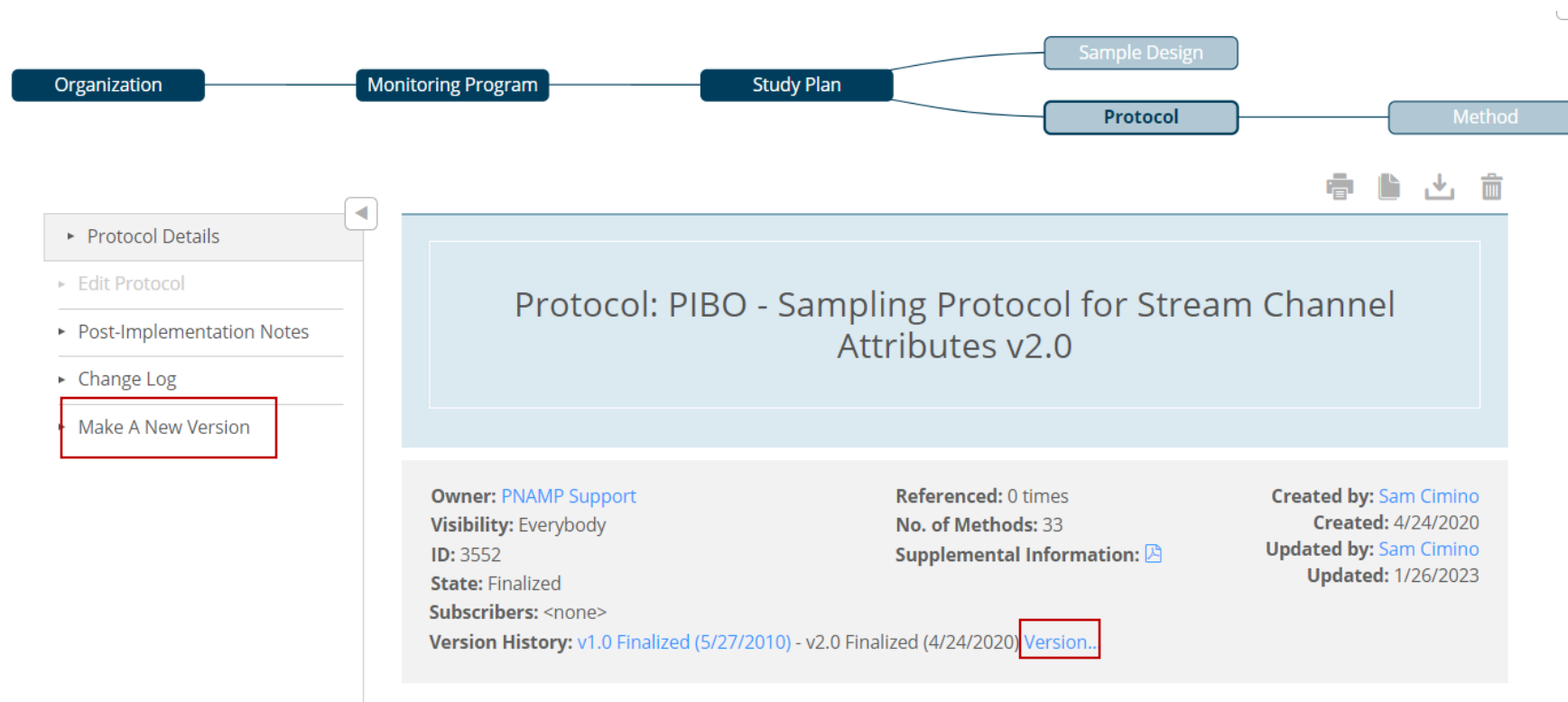
If you can't find a Protocol to use "as is" or a Protocol similar enough to clone and then adjust, you can create a new Protocol by clicking the **Create Protocol** button in the upper right-hand corner of the List of Protocols.

Versioning Protocols

Create a new **version** of a **Protocol** when you want to add or delete Methods, Metrics or Indicators.

There are two ways to version a Protocol. You may: 1) Use the **Make a New Version** tab; or 2) Use the "**Version...**" hyperlink.

Changes are tracked in the Change Log, though it is helpful for future reference to add a sentence to the background in both the original and new version to explain the purpose for amending. Protocols are automatically assigned a new version number. Only owners or colleagues can create new versions and ***a new version can only be created from a finalized protocol.***



Create a new version of a Protocol by clicking on the "**Make A New Version**" button or the "**Version...**" hyperlink next to Version History.

Customized Versioning

Organization — Monitoring Program — Study Plan — Sample Design — Protocol — Method

Version

Create new Version of Protocol "PIBO - Sampling Protocol for Stream Channel Attributes v2.0" (ID: 3552)

The Version you are creating is highlighted in yellow, and can be ordered relative to other Versions by choosing "Create custom Version number for this protocol." All other Versions will remain for provenance and reference. Add a first sentence to the background of the new Version to explain why you Versioned (e.g. had to add more steps to the protocol, or slightly update a procedure).

Current Versions

Version	Title
1.0	v1.0 Finalized (5/27/2010)
2.0	v2.0 Finalized (4/24/2020) (Protocol being Versioned)
3.0	PIBO - Sampling Protocol for Stream Channel Attributes v2.0

Create custom Version number for this Protocol ?

Select a custom Major and Minor Version number. You may not choose a Major/Minor Version number that already exists for this Protocol

Major Version: 3 Minor Version: 0

New Version Title: 3.0 PIBO - Sampling Protocol for Stream Channel Attributes v2.0

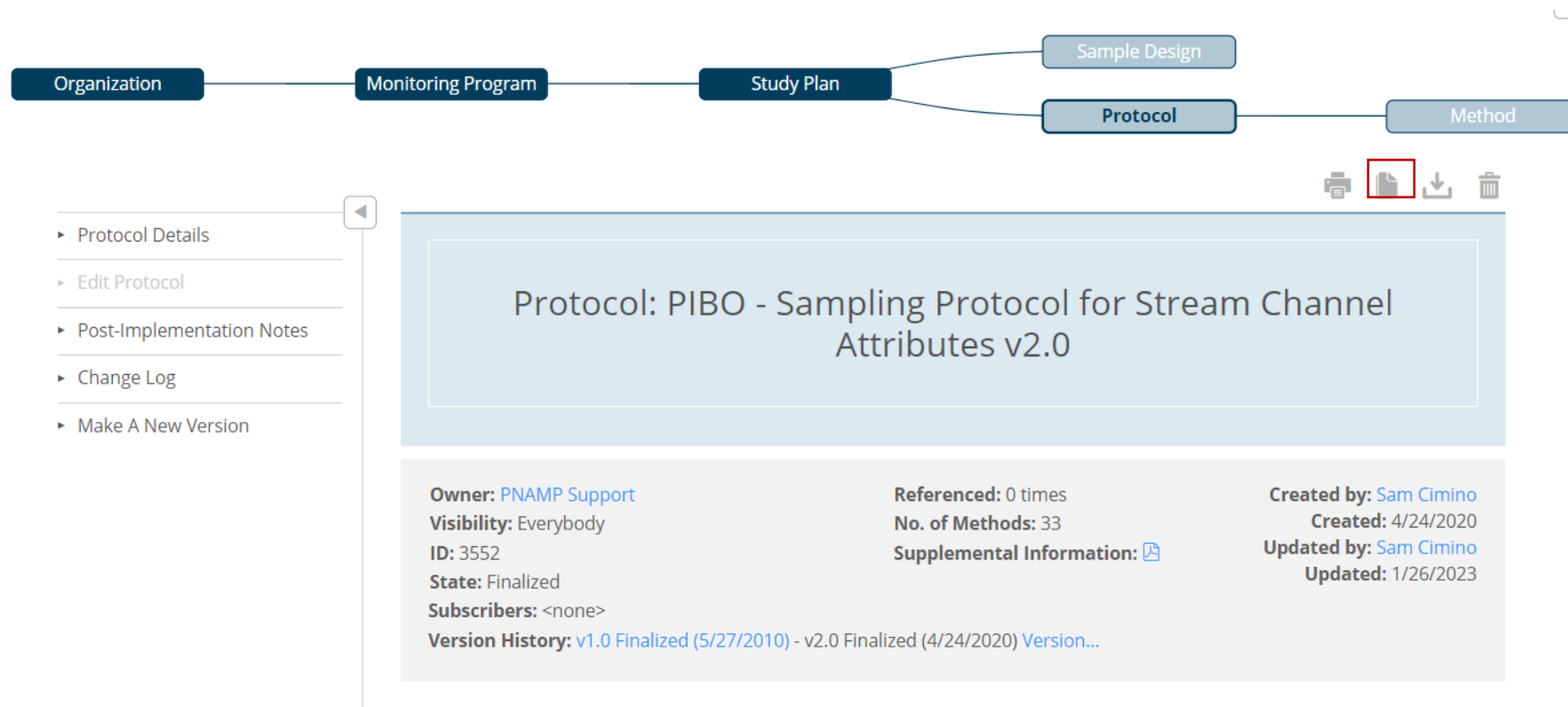
Version Protocol Cancel

When versioning your protocol, you can select this **checkbox** to modify the Major and Minor Version numbers, so that you can place the Version in the appropriate location relative to other existing Versions (e.g., back in time from the current one, or in between two other Versions, etc.). **You may not choose a Major/Minor Version number combination that already exists.**

Clone a Protocol

If you find a Protocol that depicts a similar monitoring investigation to yours consider that it may be easier to Clone an existing protocol than creating a new protocol. **Only finalized protocols may be cloned.** Search for protocols in the List of Protocols using keywords, author name, or a combination of search options. If you find a protocol that is similar to your monitoring investigation, select that protocol, then choose the Clone button on protocol details page you wish to clone.

After you clone a protocol, check every section to ensure the protocol meets your needs. Once you have edited the protocol to accurately describe your monitoring, request finalizing. [This short video explains how to clone a protocol.](#)



Click the **clone** button on a **finalized** protocol to make a copy of the selected protocol which you can modify.

Edit Basics & Objectives

To edit Basics & Objectives on a drafted Protocol, click on **Basics & Objectives** under the **Edit** tab.

All fields marked with a red asterisk * are required.

The screenshot displays the 'Edit Protocol' interface for a protocol titled 'Protocol: Assessment, Inventory, and Monitoring of Wadeable Lotic Systems v1.0'. The interface is divided into several sections:

- Protocol Details:** Located at the top, it includes fields for Owner (PNAMP Support), Visibility (Owner and colleagues), ID (3727), State (Draft), and Subscribers (-none-). It also shows referenced times (0), number of methods (3), and creation/updated dates (6/2/2023).
- Edit Protocol:** A sidebar on the left contains navigation options: Basics & Objectives (selected), Methods, Metrics And Indicators*, Literature Cited, Citation, Post-Implementation Notes, Change Log, and Request Finalizing.
- EDIT: Basics & Objectives:** The main editing area contains several required fields (marked with a red asterisk *):
 - State:** Draft
 - Visibility:** Owner and colleagues
 - Protocol Title:** Assessment, Inventory, and Monitoring of Wadeable Lotic Systems
 - Supplemental Information:** Includes options for Upload File and Use URL, and a field for a web address.
 - Monitoring Program:** BLM AIM
 - Rationale:** A rich text editor containing the text: "The Bureau of Land Management (BLM) developed the National Aquatic Monitoring Framework (NAMF) (Miller et al. 2015) to monitor the condition and trend of aquatic systems as part of the Assessment, Inventory, and Monitoring (AIM) Strategy (Toews et al. 2011). Following the AIM principles, the NAMF standardized aquatic core indicators, field sampling methodologies, electronic data capture, and the use of statistically valid sample designs for wadeable streams and rivers (i.e., lotic systems). This protocol outlines the field methodologies for the collection of the core and contingent indicators for lotic systems, as well as suggested covariates."
 - Objectives:** Two text boxes for defining objectives, each with a character count (116 and 48 remaining).
- Footer:** Includes an 'Add Objective' button, a note about achieving protocol objectives, and the 'Owner' field (PNAMP Support).

Add Methods to a Protocol

To add a **previously finalized** method to your protocol, open the protocol in which you would like to add the method. You must be the owner of the protocol to add methods. After you open the protocol, click on the **Edit Protocol** tab in the left hand column and select **Methods**, then click on the **Add Methods** button to search for methods or have a list of methods suggested to you based on your list of metrics and indicators.

Before creating a new method to add to your protocol, search for a previously created and finalized method in MonitoringResources.org to use "as is" or to customize to fit your protocol. See the [short video explaining the customization procedure](#).

The screenshot displays the 'Protocol Details' page for 'Protocol: Assessment, Inventory, and Monitoring of Wadeable Lotic Systems v1.0'. The left sidebar shows the 'Edit Protocol' tab selected, with the 'Methods' sub-tab highlighted. The main content area shows protocol metadata: Owner: PNAMP Support, Visibility: Owner and colleagues, ID: 3727, State: Draft, and Version History: v1.0 Draft (6/2/2023). Below this, the 'EDIT: Methods' section contains instructions on adding finalized methods and a red-bordered 'Add Methods' button.

Protocol: Assessment, Inventory, and Monitoring of Wadeable Lotic Systems v1.0

Owner: [PNAMP Support](#)
Visibility: Owner and colleagues
ID: 3727
State: **Draft**
Subscribers: <none>
Version History: v1.0 **Draft** (6/2/2023)

Referenced: 0 times
No. of Methods: 3

Created by: [Sam Cimino](#)
Created: 6/2/2023
Updated by: [Sam Cimino](#)
Updated: 6/5/2023

EDIT: Methods

Add Finalized Methods to your Protocol. If you are revising a draft protocol or working on a new version, please replace any expired methods with finalized methods.

NOTE that every metric will need one or more associated data collection methods to explain how you obtained that metric. Every indicator will need one or more associated data analysis and possibly data collection methods to explain how you obtained that indicator.

MonitoringResources.org may already have an existing method that you can add and use "as is", or one that is similar enough to your procedure that you can customize it in this protocol (after adding a method, click the paper/pencil icon to customize). You can also create a new Method.

[+ Add Methods](#)

Customizing Methods In a Protocol

If you find a finalized method that is similar to your procedure but differs slightly in the purpose, numbered stepwise procedure, equipment, or analysis software, you can customize the finalized method to explain where it differs from your monitoring procedure.

To **customize** the added method, first add it to your protocol (previous slide), and then click on the pencil and paper icon to the left of the method (Figure).

A customizable version of the method will pop up allowing you to explain your customizations.

NOTE: You can only customize a method owned by someone else. You cannot customize a method in which you are the owner. If you need to make changes to a method you own, you can "Version" the method (see the [Method Training Module](#)).

Protocol: Assessment, Inventory, & Monitoring of Lotic Systems

Owner: PNAMP Support
Visibility: Owner and colleagues
ID: 3727
State: Draft
Subscribers: <none>
Version History: v1.0 Draft (9/2/2023)

EDIT: Methods

Add Finalized Methods to your Protocol. If you are revising a draft protocol methods with finalized methods.

NOTE that every metric will need one or more associated data collection indicator will need one or more associated data analysis and possibly data indicator.

MonitoringResources.org may already have an existing method that you can use in your procedure that you can customize it in this protocol (after adding it to your protocol) also create a new Method.

[Add Methods](#)

Method ID	Method Name	Author
<input checked="" type="checkbox"/>	Habitat Unit Descriptions Along the Main Channel Thalweg - For Wadeable Streams v1.0 (ID:3846) Finalized	Merritt, Glenn, Status and Trends Monitoring for Watershed Health & Salmon Recovery: Field Data Collection Protocol: Wadeable Streams. Environmental Assessment Program Washington State Department of Ecology. 123. 2009.
<input checked="" type="checkbox"/>	Pool Tail Fines v3.0 (ID:6862) Finalized	Saunders, W.C., Ojala, J.V., and Henderson, R. 2019. Pool Tail Fines. Aquatic Ecology Unit. 54-55
<input checked="" type="checkbox"/>	Topographic Point Collection v3.0 (ID:5328) Finalized	ChAMP (Columbia Habitat Assessment and Monitoring Program) salmonid habitat surveys within the Columbia Habitat Monitoring Program. Columbia Habitat Monitoring Program. 36. 2014.

Custom Method

CUSTOMIZE METHOD: Habitat Unit Descriptions Along the Main Channel Thalweg - For Wadeable Streams v1.0

If you are largely following someone else's method, but making minor adjustments to fit the needs of your project's protocol, then using this feature to customize it is appropriate. However if you are only very loosely basing your field or office procedure on someone else's method but then need to significantly alter it, you should really cancel out of this and just [create a new method](#).

For each section of the method, review the original method language. If you would like to make notes about changes to any section, check the box under that section and enter your notes in the text box that appears. When you have reviewed all sections, click Save and the modified method will be saved to your list with the word 'Modified' at the start of the title. When you click Save, the method owner will be notified that you have created a customized method based on their method.

This system will maintain an association between a method and all its derivative or customized methods. You will also receive notification if the owner of this method updates it.

Basics

Method Title: Modified Habitat Unit Descriptions Along the Main Channel Thalweg - For Wadeable Streams v1.0

Purpose: This method explains how to identify and count habitat units when traversing the length of the stream site. The habitat unit descriptions are based on the Hawkins et al. (1993) classification system (Figure 1). Categories of channel geomorphic units). Observations in this method will be restricted to the main channel.

My protocol requires customizing this method's Purpose

Stepwise Numbered Procedure: Outline

This method is performed by 1 person and who dictates data to a second person who records. This method is applied at every data collection event (DCE). Observations are made while walking upstream in the thalweg of the main channel. Staff performing this method must have been trained.

This procedure is derived from Moberg (2007).

My protocol requires customizing this method's Stepwise Numbered Procedure

Equipment: No. 2 pencil, Thalweg Data Form

My protocol requires customizing this method's Equipment

Citation: Author: Merritt, Glenn
Title: Status and Trends Monitoring for Watershed Health & Salmon Recovery: Field Data Collection Protocol: Wadeable Streams
Publisher: Environmental Assessment Program Washington State Department of Ecology
Publication Year: 2009
URL: http://www.ecy.wa.gov/programs/eap/stsmf/docs/015nTWadeableManA-Vv3bhf.pdf
Volume/Page: NA / 123

My protocol requires customizing this method's Citation

Save Cancel

Mapping Methods to Metrics and Indicators in a Protocol

All methods must have an associated **metric** or **indicator** and all defined metrics and indicators must be linked to at least one method in your protocol for you to finalize. The requirement to map all metrics and indicators to methods is part of quality control to ensure that all metrics and indicators you defined have corresponding procedures to arrive at those metrics and indicators.

After adding metrics and indicators to your protocol, **map each one to appropriate methods**. Mapping to methods enables you to check that every metric or indicator can be calculated, determined, or estimated by a specific method or set of methods. Mapping also suggests preferred methods to other users that correspond to your variables and parameters. You may map more than one method to an indicator or metric. Commonly, an indicator will have both a data collection and a data analysis method mapped.

To map your methods and metrics, click on Edit Protocol and select Metrics and Indicators. First add your Metric/Indicator to the table by clicking the “Add Metric/Indicator” button and fill in all the fields. Then to map methods to metric/indicator click on the small arrow button on the left of the table, to open a drop down, click on the “Add Method” button and select the methods that are used to produce the method/indicator (Figure)

All methods and metrics must be mapped for you to finalize your protocol.

EDIT: Metrics and Indicators

Name [Metrics](#) and [Indicators](#) that the methods in your Protocol will estimate or measure. They are variables, co-variables, or parameters that you produce with your methods.

* To finalize your protocol you must define at least one Metric or Indicator.

Please provide titles for each of your Metrics and Indicators that the methods in your Protocol will measure or estimate. They are variables, co-variables, or parameters that you produce with your methods.

A metric is a value resulting from the reduction or processing of measurements taken at a site and temporal unit at one or more times during the study period.

An indicator is a value resulting from the data reduction of metrics across sites and temporal periods, used to indicate the status, condition, or trend of a resource or ecological process. It is intended to answer questions posed by the Objectives of the Protocol.

UNMAPPED METHODS

- Bank Type v1.0
- Channel Morphology: Pools v2.0

[Add Metric / Indicator](#)

Add: Your Protocol's Metrics And Indicators

	Title	Type	# Met...	Cate...	Subcategory	Subcat. Focus 1	Subcat
	Q	Q	Q	Q	Q	Q	Q
▶	Glides	Metric	0	Landscape	Abundance of Habitat	Habitat Type: Channel:	NA
▼	Pool Percentage	Metric	1	Landscape	Density of Habitat Type	Habitat Type: Channel:	NA

[Add Method](#)

Data Collection Methods (1 of 1)

- 69 - Modified Bank Stability v1.0

Data Analysis Methods (0 of 0)

None

19

Request Finalizing of a Protocol

Sign into MonitoringResources.org, go to your protocol, click the **Edit Protocol** tab, and after you have completed all required fields, click the **Request Finalizing** button on the bottom left of the screen.



- ▶ Protocol Details
 - ▶ **Edit Protocol**
 - ▶ Basics & Objectives
 - ▶ Methods
 - ▶ Metrics And Indicators
 - ▶ Literature Cited
 - ▶ Citation
- ▶ Post-Implementation Notes
- ▶ Change Log

Request Finalizing

Protocol: Lower Columbia Region Habitat Status and Trends
Monitoring: Landscape v1.0

Owner: Sheryn Olson	Referenced: 0 times	Created by: Sheryn Olson
Visibility: Owner and colleagues	No. of Methods: 1	Created: 3/11/2016
ID: 2210	Supplemental Information:	Updated by: Rebecca Scully
State: Draft		Updated: 8/11/2020
Tags: Edit Tags		
Subscribers: <none>		
Version History: v1.0 Draft (3/11/2016)		

Request Finalizing of a Protocol

If the "**Request Finalizing**" button is greyed out, you can click on the button to see a general explanation as to why your protocol cannot be finalized and, for more detail, you can click on the greyed-out "**Request Finalizing**" button for a list of required fields you are missing.

The screenshot displays a web interface for protocol management. On the left, a sidebar menu includes 'Protocol Details', 'Edit Protocol', 'Basics & Objectives', 'Methods', 'Metrics And Indicator', 'Literature Cited', and 'Citation'. The main content area features a large light blue header with the text 'Protocol: WDFW- Wadeable Streams Assessment Field Operations Manual v1.0'. Below this, a grey box contains the text 'Created by: Rebecca Scully', 'Created: 5/10/2016', 'Updated by: Rebecca Scully', and 'Updated: 8/22/2017'. At the bottom, a 'Version History: v1.0 Draft (5/10/2016)' is shown. A 'Request Finalizing' button is highlighted with a red box. A dialog box titled 'Why can't I finalize?' is open, containing the following text: 'We encourage you to have your documentation as rich as possible. These are the fields that are required but are currently blank. Basics & Objectives: Objectives Indicators: All Metrics/Methods need to be mapped Fields that, while not technically required, are currently blank. Figures & Forms: Photo, Figure or Form'. A smaller tooltip points to the 'Request Finalizing' button, stating: 'You may not finalize this Protocol until all required (red asterisked) fields are filled out across all the Protocol pages listed above, and this Protocol only references Finalized Methods.'

Protocol Review Process (Finalizing)

PNAMP staff review for consistency with related attachments and system requirements (not for scientific validity). After review, staff will either **Finalize** or **post comments** in MonitoringResources.org and alert you via email if issues need to be addressed.

If edits are needed, we request that the Protocol owner edit as needed or respond to comments to describe how the changes aren't warranted.

After you edit your Protocol or address the comments, you will need to **resubmit** the Protocol for finalizing by clicking the "**Request Finalizing**" button.

