

Montana Creek Online Interactive Mapper

The interactive mapper is designed to give the public a more complete picture of the environment within the Montana Creek Planning area. It was created by the Southeast Alaska Watershed Coalition and uses a variety of publicly available data layers from CBJ, ADF&G, the Forest Service, and more. It was created using ArcGIS pro, a geospatial software, and is hosted online via ArcGIS online.

Accessing the Mapper:

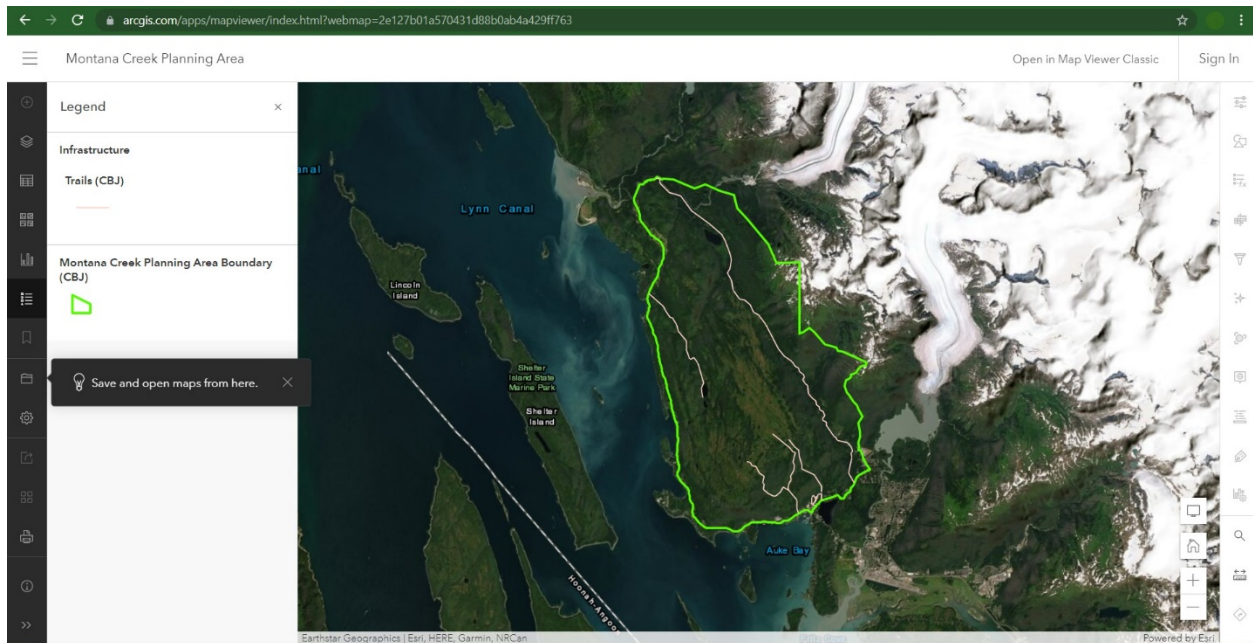
Follow the link provided to get to landing page for the mapper: <https://arcg.is/0ffHDW0>

Once on the landing page, click the blue “open in Map Viewer” button near the top right to open the mapper.



Using the Mapper:

When the mapper initially opens, it starts with CBJ trails and the boundary area (see below).




The black bar with white symbols on the left allows the user to toggle between different layers.



Select the top icon, , to access the data layers.

Layers are organized thematically into 7 themes: Watershed, Wetlands, Biota, Priority Management Areas, Elevation, Land Ownership, and Infrastructure.

To access the data layers within each theme, click on the arrow to the left of each title to access a drop down of data layers. To display the layers, first click the eye  to the right of the theme name. This will activate a subset of the dropdown layers automatically. Individual layers can be toggled on and off using the eye next to each layer name. Multiple layers from multiple themes can be activated at once, but it is recommended to keep layers turned off that are not being used. Some layers may have additional drop downs which can be accessed via the arrow to the left of the layer name.

To navigate on the map, use the mousewheel (or two-finger pinch on track pads) to zoom in and out. Click and drag on the map to move around the area.

Some data points or features have additional information available. Click on the point or polygon of the feature of interest to access a popup of data associated with the feature. If there are other features nearby, the pop up will have an arrow at the top to switch between feature information.

For more information or assistance in using the mapper, please contact khrysl@sawcak.org.

Data Layers:

Individual layers in this map are publicly available from a variety of sources. More information on each layer is provided in this section, including a brief layer description and current host or location of the layer.

Watershed Layers in this section help the user to understand watershed characteristics within the area.

Watershed Boundaries (USGS): Delineates watershed boundaries from the national hydrography dataset. HUC numbers determine scale of the boundary - HUC12 is a finer scale than HUC8, which gives a more localized view to watershed scales. This layer is hosted by esri basemaps.
Service URL: <https://hydro.nationalmap.gov/arcgis/rest/services/wbd/MapServer>

Stream Lines (TNF): Shows streams within the Tongass National Forest. Symbology represents the stream class (see Forest Riparian Management Area Buffers for more information on stream classes). This layer is hosted by TongassNF.
Service URL:

https://services1.arcgis.com/gGHDlZ6USftL5Pau/arcgis/rest/services/Tongass_National_Forest_Stream_Lines/FeatureServer

Lakes (SAWC): Shows locations of lakes throughout the area. Lakes were hand digitized in Oct. 2021 by SAWC staff. This layer is hosted by SAWC.

Service URL:

https://services3.arcgis.com/2AgVRa1AWGZCAw1j/arcgis/rest/services/Montana_Creek_Feature_Layers/FeatureServer

AWC 2020 (ADFG): Delineates known anadromous waters across Alaska. Hosted by ADF&G.

Service URL: https://gis.adfg.alaska.gov/mapping/rest/services/sf_public/AWC_2020_Layers/MapServer

Culverts (ADFG): Locations of culverts managed by ADF&G. Symbology colors show current status of the culvert: green is assumed to be passable, gray may be inadequate for passage, red is assumed to be inadequate, and black is unknown status. Layer is hosted by ADF&G.

Service URL: https://gis.adfg.alaska.gov/mapping/rest/services/sf_public/Culverts/MapServer

Culverts (TNF): Locations of culverts managed by Tongass National Forest. Symbology scheme is the same as ADFG. This layer is hosted by the USFS region 10.

Service URL:

https://services1.arcgis.com/gGHDlZ6USftL5Pau/arcgis/rest/services/Tongass_National_Forest_WaterXing_Public_View/FeatureServer

Montana Creek Stream Review(ADFG): Shows streams under review for AWC status in the Montana Creek area. Montana Creek was recently remapped with more accurate GPS units so the route (in pink) will be used as the correction for the statewide anadromous waters catalog. Other channels are marked with new information from the 2021 field season. This layer was provided by Greg Albrecht at ADF&G and is hosted by SAWC.

Service URL:

https://services3.arcgis.com/2AgVRa1AWGZCAw1j/arcgis/rest/services/Montana_Creek_Feature_Layers/FeatureServer

Wetlands This section shows locations and types of wetlands in the area.

NWI: National Wetlands Inventory. This layer was created at the national level to delineate wetlands and wetland types via aerial surveys. NWI is hosted by the USFWS.

Service URL: <https://www.fws.gov/wetlands/arcgis/rest/services/Wetlands/MapServer>

Wetlands Inventory (TNF): Wetlands from the National Wetlands inventory clipped to the Tongass National Forest. This inventory is hosted by TongassNF.

Service URL:

https://services1.arcgis.com/GuxCnhbHvpvWeAM1/arcgis/rest/services/Wetlands_Tongass_NWI/FeatureServer

Wetland Types (CBJ): Delineates different types of wetlands based on criteria from the 2016 Juneau Wetlands Management Plan. The layer was created and provided by Richard Carstensen and is hosted by SAWC.

Service URL:

https://services3.arcgis.com/2AgVRa1AWGZCAw1j/arcgis/rest/services/Montana_Creek_Feature_Layers/FeatureServer

Biota These layers show some of the well-documented plant and animal users in the area.

Winter Deer Habitat Suitability: Shows the suitable over-wintering habitat for Sitka black-tailed deer. Dark green (grid code 76 and up) indicate high suitable rating for habitat. This layer was created from a habitat suitability model and data from ADF&G for the Ecological Atlas of Southeast Alaska produced by the Audubon Society and The Nature Conservancy in 2016. The layer is hosted online by the Southeast Alaska GIS Library and SAWC.

Service URL:

https://services3.arcgis.com/2AgVRa1AWGZCAw1j/arcgis/rest/services/Montana_Creek_Feature_Layers/FeatureServer

Bald Eagle Nest Sites (FWS): Shows locations of known bald eagle nests across Alaska. Data collected by USFWS. Layer is hosted by the Southeast Alaska GIS Library.

Service URL:

https://services1.arcgis.com/GuxCnhbHpvpWeAM1/arcgis/rest/services/FWS_eag_nest_sites/FeatureServer

Invasive Plants (SAWC): Locations of known invasive plants. Layer created and provided by John Hudson and hosted by SAWC.

Service URL:

https://services3.arcgis.com/2AgVRa1AWGZCAw1j/arcgis/rest/services/Montana_Creek_Feature_Layers/FeatureServer

Priority Management Areas These layers provide a view of different management strategies and priority areas from different agencies.

Forest Riparian Management Area Buffers (TNF): Delineates areas within riparian management zones of streams, waterbodies, and wetland soils for use in planning under the Tongass Land Management Plan. The buffers show a first estimation and require field surveys for verification before projects can continue. Symbology indicates proximity to different stream classes. Class 1 waters are known anadromous waters and require the largest buffer area. Class 2 waters have resident fish or fish habitat but no anadromous fish have been recorded. Class 3 streams are perennial and intermittent, with no fish populations or fish habitat but have sufficient flow or sediment and debris transport to directly influence downstream water quality or fish habitat capability. Class 4 streams are other intermittent, ephemeral, and small perennial channels with insufficient flow or sediment transport capabilities to directly influence downstream water quality or fish habitat capability. For more information on stream class, refer to the [Forest Service's Aquatic Habitat Management Handbook](#). Layer is hosted by TongassNF.

Service URL:

https://services1.arcgis.com/gGHDlz6USftL5Pau/arcgis/rest/services/Tongass_National_Forest_Riparian_Management_Area_Buffers/FeatureServer

Priority Areas (CBJ): Areas of priority wetlands as defined in the 2016 Juneau Wetlands Management Plan. The layer was created and provided by Richard Carstensen and is used via a local file.

Core Areas of Biological Value (TNC): Compares biological value of areas across Southeast Alaska based on TNC criteria for their Coastal and Ecoregional Assessment. TNC's focal species and ecosystems were:

Brown and Black Bear - Summer Habitat

Sitka Black-tailed Deer - Winter Habitat

Five Species of Pacific Salmon and Steelhead - freshwater spawning and rearing habitat

Large Tree Forest - Riparian and Upland

Marbled Murrelet - Nesting Habitat

Estuaries - emergent vegetation and tide flat/other

Forage Fish - Herring Spawning

Each area was assessed based on these criteria to determine biological value in this context. For more information on this study, see their [original publication](#).

Dark green indicates areas of highest value based on TNC's analysis. This layer is hosted by the Southeast Alaska GIS Library.

Service URL:

https://services1.arcgis.com/GuxCnhbHpvpWeAM1/arcgis/rest/services/TNC_CoreAreasofBiologicalValue/FeatureServer

Elevation These layers provide elevation information at different scales for the area.

Topo Map (DNR): A topographic map of Alaska at a scale of 1:63360 (1 inch = 1 mile). Hosted by DNR.

Service URL:

https://tiles.arcgis.com/tiles/7HDiw78fcUiM2BWN/arcgis/rest/services/AK_TOPO_63K_HS_tile/MapServer

Aspect 20m (USFS): Shows facings of hillslopes across Southeast Alaska. Hosted by USFS.

Service URL:

https://services1.arcgis.com/GuxCnhbHpvpWeAM1/arcgis/rest/services/USFS_Aspect20m/FeatureServer

10 m Contour (DNR): Topographic lines drawn at intervals of 10 m. Two layers are used to cover the entire project area. Data from DNR's elevation data viewer. This layer is hosted by SAWC.

Service URL:

https://services3.arcgis.com/2AgVRa1AWGZCAw1j/arcgis/rest/services/Montana_Creek_Feature_Layers/FeatureServer

2 m Contour from DNR DTM 1,2,3 (SAWC): Topographic lines drawn at intervals of 2 m. Layers derived from a digital terrain model (DTM) from DNR by SAWC staff. Layer hosted by SAWC.

Service URL:

https://services3.arcgis.com/2AgVRa1AWGZCAw1j/arcgis/rest/services/Montana_Creek_Feature_Layers/FeatureServer

Ownership These layers show ownership of the land within the project boundary divided into major classes. For specific ownership information, please refer to the [CBJ Parcel Viewer](#).

Forest Service Land: Delineates land owned by the Forest Service. Hosted by the U.S. Forest Service.

Service URL: https://apps.fs.usda.gov/arcx/rest/services/EDW/EDW_SurfaceOwnership_01/MapServer

Private Land: Delineates lands owned by private landowners. Areas were digitized from the CBJ Parcel Viewer by SAWC staff. Hosted by SAWC.

Service URL:

https://services3.arcgis.com/2AgVRa1AWGZCAw1j/arcgis/rest/services/Montana_Creek_Feature_Layers/FeatureServer

CBJ Land: Delineates land owned by CBJ. Layer provided by Quinn Tracy at CBJ. Hosted by SAWC.

Service URL:

https://services3.arcgis.com/2AgVRa1AWGZCAw1j/arcgis/rest/services/Montana_Creek_Feature_Layers/FeatureServer

DNR Land: Delineates land owned by Alaska DNR. Land designations within the area include Mental Health Trust Land and State land for general use or community expansion. Layer hosted by AK DNR.

Service URL:

https://arcgis.dnr.alaska.gov/arcgis/rest/services/Mapper/Mineral_Estate_Layers/FeatureServer

CBJ Parcel Viewer 10921: Parcel information from CBJ. Layer delineates individual parcels and provides tax id information for each parcel. Refer to the [online parcel viewer](#) for the most up-to-date parcel information. Parcel data was downloaded from the CBJ parcel viewer on October 9, 2021. Layer is hosted by SAWC.

Service URL:

https://services3.arcgis.com/2AgVRa1AWGZCAw1j/arcgis/rest/services/Montana_Creek_Feature_Layers/FeatureServer

Infrastructure Layers shows current infrastructure, like roads and trails, throughout the area.

Recreation Opportunities (USDA Forest Service): Shows recreation spots like trail heads, rental cabins, and picnic areas. Hosted by USDA Forest Service.

Service URL:

https://apps.fs.usda.gov/arcx/rest/services/EDW/EDW_RecreationOpportunities_01/MapServer

Trails(USDA Forest Service): Shows trails as recorded by the National Forest Service. Layer hosted by USDA Forest Service.

Service URL: https://apps.fs.usda.gov/arcx/rest/services/EDW/EDW_TrailNFSPublish_01/MapServer

Trails (CBJ): Shows trails as recorded by CBJ. Layer provided by Quinn Tracy. Hosted by SAWC.

Service URL:

https://services3.arcgis.com/2AgVRa1AWGZCAw1j/arcgis/rest/services/Montana_Creek_Feature_Layers/FeatureServer

Trails(DNR): Shows trails across Southeast Alaska. Digitized by DNR from USGS quadrangles. Hosted by DNR.

Service URL:

https://arcgis.dnr.alaska.gov/arcgis/rest/services/OpenData/Infrastructure_Infrastructure/MapServer/3

Unofficial Trails (SAWC): Trails that are not for official use; area where apparent off-trail activities have occurred. Trails were mapped by SAWC staff in fall 2021 and expected use was listed for each trail. Most trails mapped off Montana Creek appeared to be motorized users, with a few angling/hiking trails leading down to river banks. Other sites found trails that appeared to be from mountain biking. Layer is hosted by SAWC.

Service URL:

https://services3.arcgis.com/2AgVRa1AWGZCAw1j/arcgis/rest/services/Montana_Creek_Feature_Layers/FeatureServer

Motorized Social Trail (ADFG): Unofficial motorized use trails off Montana Creek mapped by ADF&G staff. Layer provided by Greg Albrecht and is hosted by SAWC

Service URL:

https://services3.arcgis.com/2AgVRa1AWGZCAw1j/arcgis/rest/services/Montana_Creek_Feature_Layers/FeatureServer

Roads (ADFG): Shows roads within ADFG's sport fishing management area in Juneau. Layer was created by merging data from Forest Service, CBJ, and DOT. Hosted by ADFG.

Service URL:

https://services.arcgis.com/VdkVOAHovLuozJG4/arcgis/rest/services/JNU_Mgmt_Roads/FeatureServer

Closed Roads (USDA Forest Service): Roads that are closed to motorized uses. There is only one in the project area, Peterson Creek road, which was a former road for public firewood collection. Layer hosted by USDA Forest Service.

Service URL: https://apps.fs.usda.gov/arcx/rest/services/EDW/EDW_RoadBasic_01/MapServer

Roads (USFS): Shows roads and trails on forest service property. Layer hosted by U.S. Forest Service.

Service URL:

https://apps.fs.usda.gov/arcx/services/EDW/EDW_MVUM_01/MapServer/WMSserver?request=GetCapabilities&service=WMS

Infrastructure (DNR): Shows a variety of infrastructure related points like roads, trails, and forestry development roads. Layer hosted by Alaska department of Natural Resources.

Service URL:

https://arcgis.dnr.alaska.gov/arcgis/rest/services/OpenData/Infrastructure_Infrastructure/MapServer