EIM Help – Location Template

Version 4.0
July 2026

How to Use This Help

Use this when you fill out your Location template. Each row corresponds to a column in the template.

Color Coding

Color coding gives a quick indication of required fields. This information is also in the "Requirements" column.

- **Yellow/Bold** = **Required**
- **Green** = Required for geographic position info
- **Blue/Bold** = Required for wells
- Gray = Don't fill out anymore. We no longer take this info.

Help Fields

- **Column (Col)**: Column heading (A, B, C, etc.) in the EIM template
- **Field Name**: EIM field name
- **Description**: EIM field description
- **Requirements**: Indicates if field is required, conditionally required, or optional
- **Type**: Type of data field, like text, number, date, or time
- **Size**: The maximum number or length of characters allowed
- **Valid Values and Conditions**: Accepted values and format. Longer lists of valid values are at end of document or online.
- **Examples and Guidance**: Examples in bullet lists

General Location Info and Metadata

All locations require general location information and metadata. Some columns are required for all locations, some are conditionally required depending on the type of location, and some are optional. We appreciate getting optional information if you have it.

Col	Field Name	Description	Requirements	Type	Size	Valid Values and Conditions	Examples and Guidance
A	**Location ID**	**Unique ID** to identify the field location in EIM.	**Required**	Text	15	Free text. **Must be unique within EIM.** **Enter just one location** per point on the Earth's surface. **Don't enter additional locations** for each sample, depth, matrix/source, etc. from that point. Enter that info in the Results template. **Borings converted to wells**: Don't add a new location where an existing EIM soil boring location later had a monitoring well installed. Ask your Data Coordinator to convert it to a well location.	▪ For monitoring well MW4 at Voluntary Cleanup site NW0001, use **VCNW0001_MW4**. Don't use MW-4. It isn't unique. ▪ For soil boring SB08 at hypothetical "Lake Gas Station 111," **LakeGas111-SB08** is acceptable and unique. Use a consistent naming convention for all locations. Prefixing with one of these is a good option: ▪ Facility/Site ID ▪ VCP number ▪ Cleanup Site ID ▪ Site abbreviation or acronym ▪ Study ID Well locations can use Well Tag Number (ABC123) since it's unique. **Download help for** How to Name and Describe Field Locations.

Col	Field Name	Description	Requirements	Type	Size	Valid Values and Conditions	Examples and Guidance
B	**Location Name**	**Descriptive name** for a field location.	**Required**	Text	40	Free text	▪ Skagit River at I-5 bridge ▪ VCNW0001 MW4 ▪ Walla Walla WWTP Outfall ▪ UST excavation sample **Tip**: For wells, you can use the Ecology Well Tag Number, like ABC123, for the Location Name. **Download help for** How to Name and Describe Field Locations.
C	**Location Setting**	General physical setting of a field location.	**Required**	Text	30	See table of Location Setting valid values (in this document).	For most wells, enter **Land.** For in-stream piezometers, use **Stream/River**. These aren't regulatory definitions.
D	**Location Description**	Short narrative description of field location.	**Required**	Text	2000	Free text	▪ Skagit River upstream of I-5 bridge, north bank ▪ Walla Walla WWTP Outfall on Mill Creek **Tip**: Include details that helps someone find your field location. Cleanup site locations can have more general descriptions, like NW corner of property or SW wall of UST excavation. **Download help for** How to Name and Describe Field Locations.

Col	Field Name	Description	Requirements	Type	Size	Valid Values and Conditions	Examples and Guidance
E	Ecology Facility/Site ID	ID of facility or site where the field location exists, from Ecology's Facility/Site database.	**Required for** cleanup and permit sites	Text	10	Must be a valid Facility/Site ID Search for Facility/Site ID in one of these places: ▪ Facility/Site Database (online) ▪ EIM Map (online) (add the Facility/Site layer and use the Identify tool) ▪ Cleanup and Tank Search Database (online)	▪ 1529149 ▪ 4085
F	**Is Location A Well**	Indicates the field location is a Well.	**Required for wells**	Text	1	▪ **Y** - yes ▪ N **-** no (optional; will be automatically populated by EIM if left blank) If "Y," enter additional data in columns AH-BM.	**Tip**: Temporary Environmental Investigation Wells, or EIWS, are considered wells in EIM as of February 2015, but have fewer data entry requirements. Most are installed by direct push/Geoprobe®. Most soil gas samples are from wells **Download help for** Temporary Environmental Investigation Wells and Air, Vapor, and Soil Gas Data
G	Address	Physical address of field location. Might not be the same as mailing address.	Optional	Text	200	Must be a valid address	▪ 424 128th Street NW

Col	Field Name	Description	Requirements	Type	Size	Valid Values and Conditions	Examples and Guidance
H	City	City (or closest city) or area where field location exists.	Optional	Text	40	Free text	▪ Seattle ▪ Mt. Rainier National Park
I	State	State or province where field location exists.	**Required if** location is outside WA	Text	2	▪ **WA** - Washington ▪ **OR** - Oregon ▪ **ID** - Idaho ▪ **BC** - British Columbia	If your location is outside WA, fill in the state code, otherwise EIM won't recognize your coordinates.
J	Zip Code	Zip Code or Canadian Postal Code of the field location's physical address.	Optional	Text	10	Format: ▪ **XXXXX** ▪ **XXXXX-XXXX** ▪ **XXX-XXX**	▪ 98123 ▪ 98123-4567 ▪ V0B-1H0
K	County		**Leave Blank -** EIM no longer takes this info				

Col	Field Name	Description	Requirements	Type	Size	Valid Values and Conditions	Examples and Guidance
L	NHD Reach Code	Identifies the waterbody or watercourse on which the field location exists per the National Hydrography Dataset (NHD).	**Required for** streams, rivers, lakes, canals, ditches or nearshore locations that are represented in the NHD hydrography layer. Not required for sediment samples submitted for the Water Quality Assessment.	Number	14	**To find a Reach Code**, use the NHD tool in the EIM Map (online). For **instructions**, download help for Getting NHD info from the EIM Map.	▪ 17100103000305 It is important to associate your Location with the correct NHD because the information is used in Washington State's biennial Water Quality Assessment. Not all field locations where surface water samples or measurements are collected will be represented in the NHD hydrography. For example, some small streams are not currently mapped to the NHD and northern Puget Sound is not represented as an NHD waterbody. If viewing your data in Excel, be cautious of auto-reformatting. Excel may convert what you enter to scientific notation. Digits may be lost unless these cells are formatted as Text. For more information about preserving the formatting in this field, **download more help:** Preserving Values Corrupted by Excel

Col	Field Name	Description	Requirements	Type	Size	Valid Values and Conditions	Examples and Guidance
M	NHD Reach Measure	Identifies where on a watercourse the field location exists per the National Hydrography Dataset (NHD). Percent distance from reach start.	**Required for** stream or river locations	Number	7	**0.000** to **100** To find a Reach Measure, use the NHD tool in the EIM Map (online). For instructions, download help Get NHD info from the EIM Map.	▪ 57.135 ▪ 22.344 **Important:** Associate your Location with the correct position on a watercourse. Waterbodies (like lakes or marine locations) don't have Reach Measures.

Horizontal Coordinates

Submit only one type of coordinate system per location. If you don't have coordinates, get them from the online EIM map, using the Lat/Long tool. Download help for Getting Lat/Long Coordinates and Elevations from Map.

Col	Field Name	Description	Requirements	Type	Size	Valid Values and Conditions	Examples and Comments
N	**Coordinate System**	Type of coordinates used to enter geographic position of field location into EIM.	**Required**	Text	8	▪ **LAT/LONG** - Latitude/Longitude in Degrees-Minutes-Seconds or Decimal Degrees ▪ **SPCS** - Washington State Plane Coordinate System ▪ **UTM** - Universal Transverse Mercator	Submit only **one type of coordinate system** per location. **For LAT/LONG**, submit deg-min-sec OR decimal degrees, **not both**.

Latitude/Longitude Degrees-Minutes-Seconds Coordinates

Submit only one type of coordinate system per location. Fill out this block if you have latitude/longitude degrees-minutes-seconds coordinates.

Col	Field Name	Description	Requirements	Type	Size	Valid Values and Conditions	Examples and Comments
O	Latitude Degrees	Degrees measure of the field location's latitude.	**Required for** LAT/LONG in Deg-Min-Sec	Number	2	**45** to **49**	Distance north of the equator.
P	Latitude Minutes	Minutes measure of the field location's latitude.	**Required for** LAT/LONG in Deg-Min-Sec	Number	2	**00** to **59**	
Q	Latitude Seconds	Seconds measure of the field location's latitude.	**Required for** LAT/LONG in Deg-Min-Sec	Number	5	**00.00** to **59.99**	
R	Longitude Degrees	Degrees measure of the field location's longitude.	**Required for** LAT/LONG in Deg-Min-Sec	Number	3	**116** to **125**	Distance east or west of Central Meridian (Greenwich England).
S	Longitude Minutes	Minutes measure of the field location's longitude.	**Required for** LAT/LONG in Deg-Min-Sec	Number	2	**00** to **59**	
T	Longitude Seconds	Seconds measure of the field location's longitude.	**Required for** LAT/LONG in Deg-Min-Sec	Number	5	**00.00** to **59.99**	

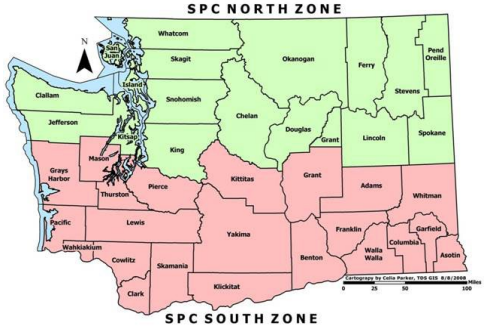
Latitude/Longitude Decimal Degrees Coordinates

Submit only one type of coordinate system per location. Fill out this block if you have latitude/longitude decimal degrees coordinates.

Col	Field Name	Description	Requirements	Type	Size	Valid Values and Conditions	Examples and Comments
U	Latitude Decimal Degrees	Decimal degrees latitude coordinate for the field location.	**Required for** LAT/LONG in Decimal Deg	Number	9	**45.000000** to **49.999999**	
V	Longitude Decimal Degrees	Decimal degrees longitude coordinate for the field location.	**Required for** LAT/LONG in Decimal Deg	Number	11	**116.000000** to **125.999999** or **-116.000000** to **-125.999999**	

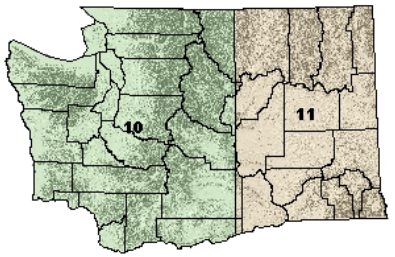
State Plane Coordinate System Coordinates

Submit only one type of coordinate system per location. Fill out this block if you have State Plane Coordinate System (SPCS) coordinates.

Col	Field Name	Description	Requirements	Type	Size	Valid Values and Conditions	Examples and Comments
W	State Plane X Coordinate	State Plane Coordinate System E-W coordinate (X-axis) of the field location. In feet.	**Required for** SPCS	Number	9	▪ North Zone: **602913.0** to **2673266.0** ▪ South Zone: **575078.0** to **2618128.0**	
X	State Plane Y Coordinate	State Plane Coordinate System N-S coordinate (Y-axis) of the field location. In feet.	**Required for** SPCS	Number	8	▪ North Zone: **-33488.0** to **832967.0** ▪ South Zone: **15935.0** to **901121.0**	
Y	State Plane Zone	State Plane Coordinate System zone (north or south) of the field location.	**Required for** SPCS	Text	1	▪ **N** - North ▪ **S** - South **Note:** Pierce County is South.	 Figure 1: SPCS Zones in Washington State.

Universal Transverse Mercator Coordinates

Submit only one type of coordinate system per location. Fill out this block if you have Universal Transverse Mercator (UTM) coordinates.

Col	Field Name	Description	Requirements	Type	Size	Valid Values and Conditions	Examples and Comments
Z	UTM Easting	Universal Transverse Mercator easting coordinate (X-axis) of the field location. In meters.	**Required for** UTM	Number	8	▪ Zone 10: **350000.0** to **731300.0** ▪ Zone 11: **271250.0** to **518176.0**	
AA	UTM Northing	Universal Transverse Mercator northing coordinate (Y-axis) of the field location. In meters.	**Required for** UTM	Number	9	▪ Zone 10: 5**042900.0** to **5454800.0** ▪ Zone 11: **5042930.0** to **454795.0**	
AB	UTM Zone	Universal Transverse Mercator zone (10 or 11) of the field location.	**Required for** UTM	Number	2	▪ **10** ▪ **11**	 Figure 2: UTM Zones in Washington State.

Horizontal Coordinate Metadata

Most columns in this section are required for all locations.

Col	Field Name	Description	Requirements	Type	Size	Valid Values and Conditions	Examples and Comments
AC	**Horizontal Coordinates Represent**	General description of what the coordinates represent.	**Required**	Number	2	▪ **24** - Discrete monitoring point ▪ **25** - Centroid of monitoring area ▪ **26** - Stream segment, can include riparian zone ▪ **27** - Transect, start point ▪ **28** - Transect, center point	**For coordinates that don't represent a discrete monitoring point** (25-29), use the Location Description column (Column D) to describe the monitoring area, stream segment, or transect where data were collected. Results from locations that represent **centroids (25)** should be flagged as composite Y in the result template. Download help for Composite Samples. **Stream segement (26)** applies to a length of stream segment. Only use it when you are **collecting data from multiple points within a stream segment** and you want all those data to be associated with a single EIM location. It's most commonly used for habitat data.

Col	Field Name	Description	Requirements	Type	Size	Valid Values and Conditions	Examples and Comments
AD	**Horizontal Datum**	Model used to project the horizontal position of the field location to a map.	**Required**	Number	2	▪ **2** - NAD83 (N. American Datum of 1983) ▪ **3** - NAD83HARN (High Accuracy Reference Network) ▪ **4** - WGS84 (World Geodetic System of 1984)	▪ **GPS Unit** = Check unit's settings for datum ▪ **EIM Map** = NAD83HARN ▪ **Google Earth** = WGS84 Locations using Washington State Plane Coordinate System (SPCS) should only use NAD83 or NAD83HARN.
AE	**Horizontal Coordinate Accuracy**	Best estimate of horizontal coordinate accuracy for a field location.	**Required**	Number	2	▪ **1** (± 0.1 ft/0.03 m) ▪ **2** (± 1 ft/0.3 m) ▪ **3** (± 3 ft/1 m) ▪ **4** (± 10 ft/3 m) ▪ **5** (± 20 ft/6 m) ▪ **6** (± 40 ft/12 m) ▪ **7** (± 100 ft/30 m) ▪ **8** (± 180 ft/55 m) ▪ **9** (± 250 ft/76 m) ▪ **10** (± 500 ft/152 m) ▪ **11** (± 1000 ft/300m or more)	**Download help for** Horizontal Coordinate Accuracy.

Col	Field Name	Description	Requirements	Type	Size	Valid Values and Conditions	Examples and Comments
AF	**Horizontal Coordinate Collection Method**	Method used to collect the horizontal coordinates for a field location.	**Required**	Number	2	▪ **8** - Survey, conventional ▪ **13** - Computer map (GIS-based, including EIM or Google Earth) ▪ **16** - GPS consumer unit or unknown (code phase) ▪ **29** - GPS high-end consumer unit (DGPS or WAAS enabled) ▪ **15** - GPS survey-grade unit (carrier phase) ▪ **17** - GPS real time survey-grade (kinematic)	For more information about different GPS technologies, **download help for** Horizontal Coordinate Accuracy.
AG	Paper Map Scale		**Leave Blank -** EIM no longer takes this info				

Elevation and Metadata

Elevation is optional for most locations, except for wells.

For **permanent wells**, we require the blue columns (also see "Requirements" column).

For **Temporary Environmental Investigation Wells** (EIWs), fill out columns AH-AM if you submit elevations. **Download** the EIW help document for details.

For **marine and freshwater sediment locations,** fill out columns AH–AJ and AL–AN, if you submit elevations.

For **all other locations,** fill out columns AH-AM, if you submit elevations.

Col	Field Name	Description	Requirements	Type	Size	Valid Values and Conditions	Examples and Comments
AH	**Elevation of**	Point at which the elevation at a field location was measured.	**Required for wells** except for EIWs with groundwater chemistry data only	Text	50	▪ **Land Surface** ▪ **Top of Well Casing** ▪ **Well Water Level Measuring Point** ▪ **Sediment Surface**	If you choose **Land Surface,** Well Water Level Measuring Point or TOC Height (AQ) is required. **Note:** Use **Well Water Level Measuring Point** only if the measuring point isn't the top of casing (like an access port).
AI	**Elevation**	The distance of a field location above or below a vertical reference point. In feet or meters.	**Required for wells** except for EIWs with groundwater chemistry data only	Number	12	-**9999999.999** to **0000000.000** to **9999999.999**	▪ 356 ▪ - 7.2 **Note**: This is the elevation of the point specified in column AH (Elevation of). **Marine and freshwater sediment surface** (or mudline) elevations are measured relative to a reference point like mean sea level (column AN). They are often (but not always) negative values.
AJ	**Elevation Units**	Units in which the elevation of a field location is expressed.	**Required for wells** except for EIWs with groundwater chemistry data only	Text	2	▪ **FT** - feet ▪ **M** - meters	

Col	Field Name	Description	Requirements	Type	Size	Valid Values and Conditions	Examples and Comments
AK	**Elevation Datum**	Vertical reference point from which elevation was measured at a field location.	**Required for wells** except for EIWs with groundwater chemistry data only	Number	2	▪ **1** - NAVD88, North American Vertical Datum of 1988	**GPS unit** = Check unit's settings for datum. **Google Earth and EIM Map** = NAVD88. **Local datum** = You must convert your elevation data to NAVD88 if you used another datum, including local datums. **Download help for** Converting Local Elevation Datums to NAVD88. For **sediment elevations**, leave this column blank. See Sediment Elevation Reference (Column AN).
AL	**Elevation Accuracy**	Best estimate of elevation accuracy at a field location.	**Required for wells** except for EIWs with groundwater chemistry data only	Number	2	▪ **1** (± 0.1 ft/0.03 m) ▪ **2** (± 1 ft/0.3 m) ▪ **3** (± 3 ft/1 m) ▪ **4** (± 10 ft/3 m) ▪ **5** (± 20 ft/6 m) ▪ **6** (± 40 ft/12 m) ▪ **7** (± 100 ft/30 m or more)	

Col	Field Name	Description	Requirements	Type	Size	Valid Values and Conditions	Examples and Comments
AM	**Elevation Collection Method**	The method used to measure elevation at a field location.	**Required for wells** except for EIWs with groundwater chemistry data only	Number	2	▪ **2** - Survey, conventional ▪ **4** - GPS consumer unit or unknown (code phase) ▪ **13** - GPS high-end consumer unit (DGPS or WAAS enabled) ▪ **5** - GPS survey-grade (carrier phase) ▪ **6** - GPS real time survey-grade (kinematic) ▪ **3** - Digital elevation model (DEM), source unspecified ▪ **12** - Digital elevation model (DEM) via lidar ▪ **1** - Bathymetric sounding ▪ **14** - Meter wheel	

Col	Field Name	Description	Requirements	Type	Size	Valid Values and Conditions	Examples and Comments
AN	Sediment Elevation Reference	Reference point for the depth (elevation) of a marine or freshwater sediment field location.	**Required only for** marine or freshwater sediment locations with elevation specified in the Elevation column (AI)	Number	2	▪ **1** - Mean Sea Level (MSL) ▪ **2** - Mean High Water (MHW) ▪ **3** - Columbia River datum (CRD) ▪ **4 -** Lake Washington Ship Canal Datum (LWSC) ▪ **5** - Mean Lower Low Water (MLLW) ▪ **6** - Minimum Operating Pool (MOP) ▪ **14** - Lake Washington Low Water (LWLW)	**Don't fill this out unless** the location is a sediment location (marine or freshwater). If you used a reference point not listed here, contact your Data Coordinator.

Well Water Level Measuring Point and Metadata

For permanent wells, we require blue columns (also see “Requirements” column). Requirements are different for Temporary Environmental Investigation Wells (EIWs). **Download the** EIW help document for details.

We appreciate getting optional information if you have it.

Measuring Point Diagrams

Diagrams showing what the measuring point columns refer to.

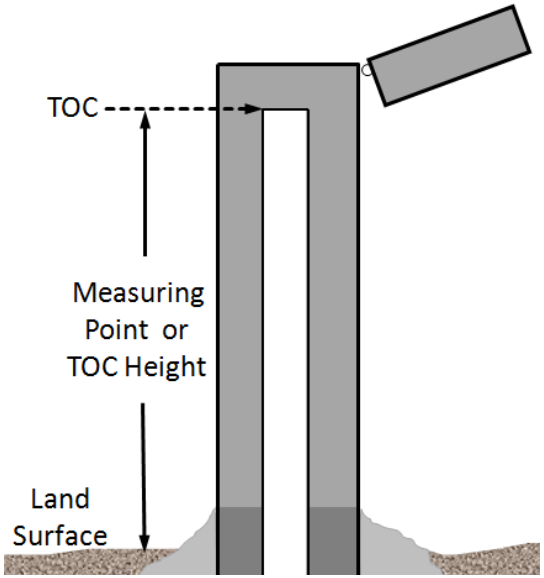


Figure 3: Well with casing stickup.

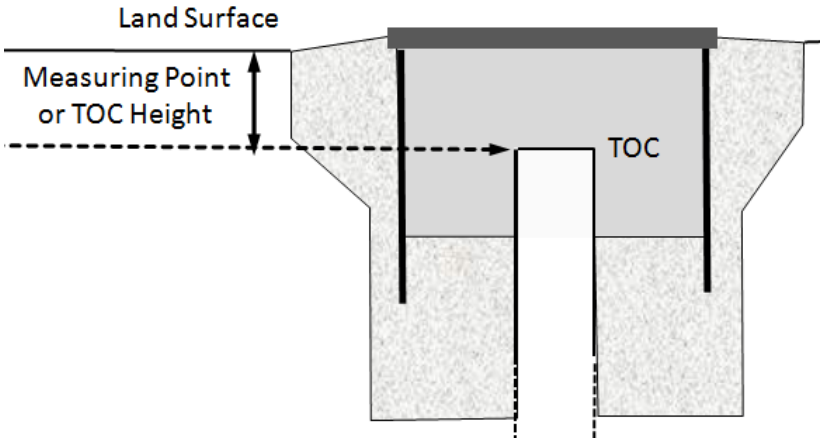


Figure 4: Flush-mount well.

Col	Field Name	Description	Requirements	Type	Size	Valid Values and Conditions	Examples and Comments
AO	**Well Water Level Measuring Point or TOC ID**	ID for the point on the well from which water levels are measured. Often top of well casing (TOC).	**Required for wells** except for EIWs with groundwater chemistry data only	Text	8	▪ **TOC1** - when measured from top of casing ▪ **TOC2** – when measured from a secondary point at top of casing (like when the casing gets cut off) ▪ **MP1** – when measured from access port or similar ▪ **MP2** – when measured from a secondary access port or similar	**Tip**: **If the top of casing gets cut off** or you have more than one measuring point, contact your Data Coordinator. They will enter a new Measuring Point ID into EIM for you.
AP	**Well Water Level Measuring Point or TOC Description**	Description of the point on the well from which water levels are measured. Often top of well casing (TOC).	**Required for wells** except for EIWs with groundwater chemistry data only	Text	2000	Free text	▪ Top of casing, notch on north side
AQ	Well Water Level Measuring Point or TOC Height	Distance from the land surface to the point where the water level was measured (often top of well casing (TOC)). Synonymous with **"casing stickup."**	**Required for wells if** "land surface" is specified in "Elevation of" field (AH) except for EIWs with groundwater chemistry data only (no water levels measured).	Number	5	Report measuring points below land surface as negative values	▪ 2.8 (above ground) ▪ -0.5 (below ground) **Note**: **This isn't wellhead surface elevation**. See the Elevation column (AI) for that. It is encouraged to populate this field for all wells.

Col	Field Name	Description	Requirements	Type	Size	Valid Values and Conditions	Examples and Comments
AR	Well Water Level Measuring Point or TOC Height Units	Units in which the measuring point height is expressed.	**Required for wells if** Well Water Level Measuring Point or TOC Height is populated	Text	2	▪ **FT** - feet ▪ **M** - meters	
AS	Well Water Level Measuring Point or TOC Start Date	Date on which the measuring point was first used.	Optional	Date	10	Format: **MM/DD/YYYY**	▪ 03/15/1999 ▪ 12/22/2021

Well Details

For permanent wells, we require blue columns (also see "Requirements" column). Requirements are different for Temporary Environmental Investigation Wells (EIWs). **Download the** EIW help document for details.

We appreciate getting optional information if you have it.

Col	Field Name	Description	Requirements	Type	Size	Valid Values and Conditions	Examples and Comments
AT	Well Tag ID	The unique Washington State Department of Ecology well tag ID, consisting of three letters and three numbers (e.g. ABC123).	**Required for monitoring wells and other wells if available**	Text	6	Format: **ABC123** Leave blank If you don't have a valid well tag ID and it isn't practical to get one.	▪ AAB489 ▪ BFR225 Must be the unique number off the Ecology well tag attached to a well. The ID is stamped on an aluminum tag and typically affixed to the well by the driller at the time of construction or later by Ecology staff. The ID is also included on the well log submitted by the driller. See Ecology's Well Report Viewer to find Well Tag IDs. If a well isn't tagged, you can get one from Ecology. Because the Well Tag ID is unique in Washington, you can use it as the EIM Location ID and Location Name.
AU	Well Owner Organization Name	The organization name of the well owner.	**Required for wells if available**	Text	50	Free text	▪ City of Olympia This information isn't made public.

Col	Field Name	Description	Requirements	Type	Size	Valid Values and Conditions	Examples and Comments
AV	Well Owner Last Name	The last name of the well owner.	**Required for wells if available**	Text	50	Free text	▪ Jones This information isn't made public.
AW	Well Owner First Name	The first name of the well owner.	**Required for wells if available**	Text	50	Free text	▪ John This information isn't made public.
AX	**Ground-water Location Type**	The primary use or type of well or monitoring location.	**Required for wells**	Text	50	▪ **Dewatering Well** ▪ **Geothermal Well** ▪ **In-Water Piezometer** ▪ **Injection Well - ASR** ▪ **Injection Well – Carbon Sequestration** ▪ **Injection Well - Remediation** ▪ **Irrigation Well** ▪ **Monitoring Well** ▪ **Pumping Well – Remediation** ▪ **Soil Gas Probe** ▪ **Stockwater Well** ▪ **Temporary Well - EIW** ▪ **Water Supply Well - Domestic** ▪ **Water Supply Well - Industrial** ▪ **Water Supply Well - Public** ▪ **Other**	**Download help for** EIWs (Temporary Environmental Investigation Wells) **and** Air, Vapor, and Soil Gas Data.

Col	Field Name	Description	Requirements	Type	Size	Valid Values and Conditions	Examples and Comments
AY	**Well Completion Depth**	The depth of the completed well below land surface. In feet or meters.	**Required for wells except** for EIWs with groundwater chemistry data only	Number	5		▪ 48.84 ▪ 20.00 Usually found on the well log.
AZ	**Well Completion Depth Units**	Units in which Well Completion Depth is expressed.	**Required for wells except** for EIWs with groundwater chemistry data only	Text	2	▪ **FT** - feet ▪ **M** - meters	
BA	**Well Completion Type**	The type of completion or nature of the openings that allow water to enter the well.	**Required for wells except** for EIWs with groundwater chemistry data only	Text	30	▪ **Cased, Open Interval** ▪ **Uncased, Open Interval** ▪ **Cased, Open-Ended** ▪ **Other**	**Does your well have a screen**? Use "Cased, Open Interval." If "Other," explain the Completion Type in the Well Construction Comment (column BJ).
BB	**Well Open Interval Upper Depth**	Distance from land surface to the top of the Well open interval. Includes screens, perforations, etc. In feet or meters.	**Required for wells except** for EIWs with groundwater chemistry data only	Number	5		▪ 20 Usually, depth to top of well screen. To include more information about this, use Well Construction Comment. For open-ended wells, repeat Well Completion Depth (column AZ) in both Well Open Interval Upper Depth and Lower Depth.

Col	Field Name	Description	Requirements	Type	Size	Valid Values and Conditions	Examples and Comments
BC	**Well Open Interval Lower Depth**	Distance from land surface to the bottom of the well open interval. Includes screens, perforations, etc. In feet or meters.	**Required for wells except** for EIWs with groundwater chemistry data only	Number	5		▪ 23 Usually, depth to bottom of well screen. To include more information about this, use Well Construction Comment. For open-ended wells, use Well Completion Depth (AZ) for both Well Open Interval Upper Depth and Lower Depth.
BD	**Well Open Interval Units**	Units in which the Well Open Interval Upper and Lower Depth is expressed.	**Required for wells except** for EIWs with groundwater chemistry data only	Text	2	▪ **FT** - feet ▪ **M** - meters	
BE	Well Maximum Casing Diameter	The inner diameter of the outermost permanent casing used to complete the well. In centimeters or inches.	Optional	Number	5		▪ 2.00 ▪ 2 Report the inner diameter of the well itself and not that of the outer protective casing.
BF	Well Maximum Casing Diameter Units	Units in which Well Maximum Casing Diameter is expressed.	**Required if** Well Maximum Casing Diameter is populated	Text	2	▪ **CM** - centimeters ▪ **IN** - inches	

Col	Field Name	Description	Requirements	Type	Size	Valid Values and Conditions	Examples and Comments
BG	Well Casing Material	Material from which the well casing is made.	Optional	Text	15	▪ **Concrete** ▪ **Iron** ▪ **Plastic, other** ▪ **PTFE/Teflon** ▪ **PVC** ▪ **Steel, other** ▪ **Steel, Stainless** ▪ **Other**	
BH	Well Construction End Date	Date that well construction was completed.	**Required for wells if available**	Date	10	Format: **MM/DD/YYYY**	▪ 01/01/2000
BI	Well Construction Method	The method used to create the borehole and construct the well.	**Required for wells if available**	Text	2	▪ **AP** - air percussion ▪ **AR** - air rotary ▪ **BA** - bored / augered ▪ **CT** - cable tool ▪ **DR** - driven / direct push ▪ **DU** - dug ▪ **HR** - hydraulic / mud rotary ▪ **JE** - jetted ▪ **RR** - reverse circulation rotary ▪ **SO** - sonic	

Col	Field Name	Description	Requirements	Type	Size	Valid Values and Conditions	Examples and Comments
BJ	Well Construction Comment	Comments or other important information about the construction of a well.	Optional	Text	2000	Free text	▪ Well constructed by owner. Depth is unknown
BK	Is Well Upgradient of a Facility/Site		**Leave Blank -** EIM no longer takes this info				
BL	Aquifer Test Report in EIM		**Leave Blank -** EIM no longer takes this info				If you want an aquifer test report uploaded to EIM, contact your Data Coordinator.
BM	Naturally Flowing Well	Indicates whether an uncapped well would naturally flow due to artesian pressure.	**Required for wells if well is naturally flowing**	Text	1	▪ **Y** - yes ▪ **N** - no	

Location Setting Valid Values

Note - These aren't regulatory definitions.

Valid Value	Description
Air/Climate	Atmospheric monitoring, including outdoor air samples, air deposition, and precipitation.
Canal/Ditch	Human-made channel or ditch for irrigation, hydropower, overflow, drainage, etc.
Estuary	Area where fresh and salt water intermix, like bay, lagoon, etc.
Estuary-Channel	Estuary channel bottom.
Estuary-NonChannel	Estuary non-channel bottom.
Intertidal	Area between high and low tide extremes.
Lake/Pond/Reservoir	Inland water body, usually fresh.
Land	On or below land surface, including most wells.
Marine	Area beyond the estuarial environment.
Source-HumanMade	Human-constructed source such as discharge/pipe, sewer/septic, sub-slab soil gas samples, indoor air samples, stormwater conveyance, industrial, agricultural, lagoon or other source.
Spring/Seep	Where groundwater discharges to land surface.
Stream/River	Channeled, flowing water.
Stream/River-Channel	Stream/River channel bottom.
Stream/River-NonChannel	Stream/River non-channel bottom.
Stream/River-Pool	Stream/River pool bottom.
Stream/River-Riffle	Stream/River riffle bottom.

Valid Value	Description
Subtidal	Area below low tide.
Wetland	Land that is saturated by surface or ground water, either permanently or seasonally.
Other	Use when none of the other categories fit.

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Document Revision History

Revision Date	Revision No.	Summary of Changes	Reviser(s)
9/10/2013	2013.01	Changes to EIM data model.	CN
10/13/2017	3.0	Changed versioning system and made formatting updates for new help center.	CN
04/25/2018	3.1	Added “Estuary” and “Stream/River” to definitions under those categories.	CN
10/04/2018	3.2	Retired value “1” (NAD27 - N. American Datum of 1927) from Horizontal Datum (AD) and “Oil and Gas Well” from Groundwater Location Type.	CN
01/23/2019	3.3	Added “Soil Gas Probe” to Groundwater Location Type valid values and “Spring/Seep” to Location Setting valid values.	KC
06/24/2019	3.4	Added link to new Horizontal Coordinate Accuracy help document.	KC
08/06/2019	3.5	Added link to “Cleanup Site Search” for FSID.	KC
03/19/2020	3.6	Deleted Elevation Accuracy valid value codes 8-11 and updated definition for code 7.	KC
04/09/2020	3.7	Added link to help document in Horizontal Coordinate Collection Method, removed valid value 29 (Transect, end point) from Horizontal Coordinates Represent.	KC
05/08/2020	3.8	Removed unused valid values 2-8, 11, 12, 18, 19 from Paper Map Scale and added Unknown.	KC
06/15/2020	3.9	Updated Location Name info (no longer required but needs to be descriptive) and Location Description (can be more general for cleanup sites). Updated document name for link to “How to Name and Describe Field Locations.” Updated links. Increased font size from 10 to 11. Other accessibility edits like breaking apart singe table and adding headings.	CN
11/10/2020	3.10	Updated capitalization of “Is Location a Well” to “Is Location A Well” to match the template.	KC
12/03/2020	3.11	Removed an example from Well Construction Comment	KC
04/15/2021	3.12	Fixed typo in heading AO	KC
10/08/2021	3.13	Clarified valid values and conditions for Location ID and added additional examples	KC

Revision Date	Revision No.	Summary of Changes	Reviser(s)
03/09/2022	3.14	Updated formatting, added descriptions for help fields, and revised descriptions for lidar and DEM Elevation Collection Methods.	CN
06/08/2022	3.15	Updated link in Ecology Facility/Site ID field for Cleanup Site Search to link for Facility/Site Database.	KC
10/28/2022	3.16	Added blue color and underline to links in paragraph under Horizontal Coordinate section.	KC
11/09/2022	3.17	Added "**Note:** Pierce County is South" under State Plane Zone	CN
12/30/2022	3.18	Added clarification in bold to "Submit only one type of coordinate system per location." Removed Horizontal Coordinate Collection Method valid value of "4 Address matching – unspecified."	KC
02/06/2023	3.19	In the Type column for Elevation Units, previously said "number", updated it to "text."	KC
02/23/2023	3.20	Added comment to Horizontal Datum "Locations using Washington State Plane Coordinate System (SPCS) should only use NAD83 or NAD83HARN."	KC
10/13/2023	3.21	Removed location setting valid value "tunnel/shaft/mine", added "including air deposition and precipitation" to the description for Location Setting of "Air/Climate", revised text in the Requirements and Examples and Guidance fields for NHD Reach Code.	KC
11/02/2023	3.22	Updated descriptions for Location Settings Canal/Ditch (added "or ditch") and Source-ManMade (added "septic" and "pipe"). In Valid value lists, added dashes or parens between values and descriptions to create pause for screen readers.	CN
08/26/2024	3.23	Updated valid value descriptions in Well Water Level Measuring Point or TOC ID. Updated Location Setting valid value of "Source-ManMade" to "Source-HumanMade" and updated the description. Edited "man-made" to "human-made" in the description of Location Setting valid value of "Canal/Ditch". Updated character limit to 50 for Groundwater Location Type. Added sentence "If you choose Land Surface, Well Water Level Measuring Point or TOC Height (AQ) is required" to Elevation Of. In Well Water Level Measuring Point or TOC Height, updates to Description, Requirements and Comments.	KC
05/21/2025	3.24	EIM is no longer taking data for the following fields because they are either generated automatically or we don't use them anymore: County (K), Paper Map Scale (AG), Is Well Upgradient of a Facility/Site (BK), and Aquifer Test Report in EIM (BL). These fields are still in the template (for less disruption) but leave them blank. Also removed the valid values list for paper Map Scale.	CN

Revision Date	Revision No.	Summary of Changes	Reviser(s)
02/02/2026	3.25	For UTM Northing, corrected Zone 10 valid values from: **042900.0** to **5454800.0**---to---**5042900.0** to **5454800.0**. The "5" was inadvertently deleted. For Is Location a Well?, added language stating that entering "No" is optional. We assume "No" if left blank.	CN
07/08/2026	4.0	Updates for new loader launch. Deactivated Horizontal Collection Method 19 and Elevation Collection Method 8 (both Paper map interpolation).	KC, CN