| **Attribute** | **Definition** | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| **Proposed Data Standard** | **Sustainable Groundwater Management Act (SGMA) Program** | **California Statewide Groundwater Elevation Monitoring (CASGEM) Program** | **State Water Resources Control Board (SWRCB) GeoTracker Data Management System** | **US Geologic Survey (USGS) National Water Information System (NWIS)** | **SAFER** |
| **Local Well Name** | **Local Well Name** - Name or number identifier given by the Monitoring Agency used to identify the well on a local basis. | **Local Well Name** - local well name used to identify the well | **Local** - Name or number identifier given to the well by the Monitoring Entity. | **Field Point Name** - field name or common name of the location where field measurement was collected | **Site/Station Name** - Site names generally include river and lake names. For wells it can be the local number | **Facility Name  Facility ID** |
| **State Well Number** | **State Well Number** - State Well Number provided by the Department of Water Resources | **State Well Number** – Official State Well Number provided by the Department of Water Resources or local agency that has been granted authority to assign the number | **State Well Number** - Official State Well Number provided by the Department of Water Resources or local agency that has been granted authority to assign the number. | Not reported | Not reported |  |
| **Site Code** | **Site Code** - Unique identifier assigned to each well for relevant program that the program uses to track individual wells within its system. | **Site Code** - Unique site code created for the well by the Monitoring Network Module or CASGEM. | **Site Code / CASGEM ID** - unique identifier assigned and used by the CASGEM system. | **Global ID** - unique identifier for a regulated facility or site | **Site Number/ID** - 15-digit number ID for wells (8 digit number ID is for surface water) | **Well Completion Report Number  Department of Water Resources Site Code Identification Number  Water Rights ID** |
| **Permit Number** | **Permit Number –** County permit number associated with well. | Not reported | Not reported | Not reported | Not reported | **Well Permit Number** |
| **Local Permit Agency** | **Local Permit Agency** - Agency who approved permit associated with well. | Not reported | Not reported | Not reported | Not reported | Not reported |
| **Measurement Date/Time** | **Measurement Date** - Date groundwater level measurement was taken.  **Date Format**: mm/dd/yyyy  **Measurement Time –** Time groundwater level measurement was taken.  **Time Format:** hh:mm:ss 24-hour time PST (default time is 12:00:00) | **Measurement Date** (mm/dd/yyyy) - groundwater level measurement date  **Measurement Time (PST 24-hour)** - time when the groundwater level measurement was taken | **Date (MM/dd/yyyy)  24-hour Time, PST (hh:mm)** | Date on which the elevation was measured.  Date format MM/DD/YYYY | **Date** - date of measurement (MM-DD-YYYY)  **Time** - 00:00 24-hour format, provide standard time zone code as well as if it is in daylight savings time | **Static Water Level Date Measured** - The date that the static water level measurement for a groundwater or GWUDI source was measured.​ Not Available option provided. MM/DD/YYYY  **Pumping Water Level Date Measured** - The date that the pumping water level measurement for a groundwater or GWUDI source was measured. MM/DD/YYYY |
| **Reading at Reference Point (RRP)** | **Reading at Reference Point (RRP)** - Reading of the measurement device taken at the reference point of the well..   **Units**: feet  **Reporting Accuracy**: tenth of a foot | **Reading at Reference Point** (feet) - reading of measurement device taken at the reference point of the well. | **Reading at RP** - reading of the measurement device taken at the reference point of the well. Enter a numerical value in feet. | **DTW** - Measured depth from top of well casing to groundwater surface reported to hundredth of a foot. | **Water Level** - enter the water level, in feet from measuring point at the site. Water levels below measuring point are unsigned, water levels above monitoring point are preceded by a minus sign (-), if WL type is M (measuring point). Precision can be carried to two decimal places. | Not reported |
| **Reading at Water Surface (RWS)** | **Reading at Water Surface (RWS)** - Measurement of the watermark on a steel tape, equivalent, or electronic sounder after making the groundwater sounding; typically, 0.00 for an electronic sounder.  **Units**: feet  **Reporting Accuracy**: tenth of a foot | **Reading at Water Surface** (feet) - The reading of the measurement device taken at the water surface of the well. Enter a numerical value in feet to the tenth decimal. | **Reading at WS** - The reading of the measurement device taken at the water surface (WS) of the well. Enter a numerical value in feet. Value must be between -300 and 14,505. | Not reported | Not reported | Not reported |
| **Reading at Vertical Datum** | **Reading at Vertical Datum –** Groundwater level measurement reading as depth to water from the measurement point below the vertical datum. Negative value is considered above the vertical datum  **Units:** feet  **Reporting Accuracy:** two decimal points | Not reported | Not reported | Not reported | **Water Level** - enter the water level, in feet from measuring point at the site. Water levels below vertical datum are unsigned, water levels above vertical datum are preceded by a minus sign (-), if WL type is S (vertical datum). Precision can be carried to two decimal places. | Not reported |
| **Water Surface Elevation (WSE) (Calculated)** | **Water Surface Elevation (WSE)** - Calculated water surface elevation.  **Calculated as**:  WSE = RPE - (RRP or RWS)  RPE = reference point elevation which is reported as part of the Well Characteristics attributes.  **Units**: feet above NAVD88 | **Groundwater Elevation –** Groundwater elevation in feet above mean sea level, using NAVD88. | **WSE** - Water Surface Elevation (WSE). A calculated field, no is input required. | Not reported | Not reported | Not reported |
| **Ground Surface to Water Surface (GS to WS) (Reported or Calculated)** | **Ground Surface to Water Surface (GS to WS)** - Depth to water below ground surface (bgs).  **Calculated as**: GS to WS = GSE - WSE  **Units**: feet below ground surface (bgs)  **Reporting Accuracy**: tenth of a foot | **Ground Surface Elevation to Groundwater Elevation -** Depth to groundwater elevation in feet below ground surface. | **GS to WS** - Distance measured from ground surface (GS) to Water Surface (WS), or "depth to water". A calculated field, no is input required. | Not reported | **Water Level** - enter the water level, in feet from land surface datum (LSD) at the site. Water levels below LSD are unsigned, water levels above LSD are preceded by a minus sign (-), if WL type is L (land surface). Precision can be carried to two decimal places. | **Static Water Level** - Feet below ground surface. Used for groundwater and GWUDI sources only, this identifies the number of feet from the ground surface to the water table. This measurement is not applicable for horizontal wells.​   **Pumping Water Level** - feet below ground surface. Identifies the water level of a groundwater or GWUDI source while that source is actively producing water in a measurement of feet from the ground surface to the water table during pumping. |
| **Reading Point to Water Level (Calculated)** | **Reading Point to Water Level (RP to WL) -** Depth to water below reading point (bgs).  **Calculated as:** RP to WL = RP – WL  **Units:** feet below ground surface (bgs)  **Reporting Accuracy:** tenth of a foot | **Reference Point Elevation to Groundwater Elevation -** Depth to groundwater elevation in feet below reference point. | **RP to WS** - Calculated value, no input required. Reading at RP - Reading at WS. | See Reading at Reference Point | Not reported | Not reported |
| **Water Level Datum** | **Water Level Datum** - Vertical datum of water surface elevation.  **Format**: NAVD88 (recommended) | **Water Level Datum -** water level datum as NAVD88 | **Water Level Datum -** water level datum as NAVD88 | Not reported | **Water-Level Datum** - [depth to] water level datum, mandatory if WL type is S (vertical datum) or other | Not reported |
| **No Measurement Code** | **No Measurement Code** - Code providing explanation for no groundwater level measurement being taken.  **List of Options:**  0 - Measurement Discontinued, 1 – Pumping, 2 – Pump house locked, 3 – Tape hung up, 4 – Can’t get tape in casing, 5 - Unable to locate well, 6 - Well has been destroyed, 7 - Special/Other, 8 - Casing leaking or wet, 9 - Temporarily inaccessible, D - Dry well, F - Flowing artesian well | **No Measurement Type/Code** - type/code used to explain why a measurement was not taken  0 - Measurement Discontinued, 1 – Pumping, 2 – Pump house locked, 3 – Tape hung up, 4 – Can’t get tape in casing, 5 - Unable to locate well, 6 - Well has been destroyed, 7 - Special/Other, 8 - Casing leaking or wet, 9 - Temporarily inaccessible, D - Dry well, F - Flowing artesian well | **NM Code** - code to explain why a measurement was not taken  0 - Measurement Discontinued, 1 – Pumping, 2 – Pump house locked, 3 – Tape hung up, 4 – Can’t get tape in casing, 5 - Unable to locate well, 6 - Well has been destroyed, 7 - Special/Other, 8 - Casing leaking or wet, 9 - Temporarily inaccessible, D - Dry well, F - Flowing artesian well | Not reported | Not reported | Not reported |
| **Measurement Quality Code** | **Measurement Quality Code** - Code providing a description of the quality of the groundwater level measurement.  **List of Options:**   * Caved or deepened * Pumping * Nearby pump operating * Casing leaking or wet * Pumped recently * Air or pressure gauge measurement * Other * Recharge or surface water effects near well * Oil or foreign substance in casing * Acoustical sounder * Recently flowing * Flowing * Nearby flowing * Nearby recently flowing * Dry * Injector site monitor * Injector site monitor * Plugged * Measurement discontinued * Obstruction * Nearby recently pumped * Foreign substance * Well destroyed * Surface water effects * Blank – static | **Questionable Measurement Type Code** - type/code to explain why a measurement is questionable  0 - Caved or deepened, 1 – Pumping, 2 - Nearby pump operating, 3 - Casing leaking or wet, 4 - Pumped recently, 5 - Air or pressure gauge measurement, 6 – Other, 7 - Recharge or surface water effects near well, 8 - Oil or foreign substance in casing, 9 - Acoustical sounder, E - Recently flowing, F – Flowing, G - Nearby flowing, H - Nearby recently flowing | **QM Code** - code to explain why a measurement is questionable  0 - Caved or deepened, 1 – Pumping, 2 - Nearby pump operating, 3 - Casing leaking or wet, 4 - Pumped recently, 5 - Air or pressure gauge measurement, 6 – Other, 7 - Recharge or surface water effects near well, 8 - Oil or foreign substance in casing, 9 - Acoustical sounder, E - Recently flowing, F – Flowing, G - Nearby flowing, H - Nearby recently flowing | Not reported | **Site Status for Water Level -** enter the code that best describes the status of the site or water level at the time the water level was measured. If no status is indicated, the reported water-level measurement is assumed to represent a static water level.  D – dry  E – recently flowing  F – flowing  G – nearby flowing  H – nearby recently flowing  I – injector site monitor  J – injector site monitor  M – plugged  N – measurement discontinued  O – obstruction  P -pumping  R – recently pumped  S – nearby pumped  T – nearby recently pumped  V – foreign substance  W – well destroyed  X – surface water effects  Z – other  Blank – static | Not reported |
| **Measurement Method** | **Measurement Method** - Method used to collect groundwater level measurement.  **List of Options:**   * Airline * Acoustic or sonic sounder * Analog or graphic recorder * Calibrated airline * Estimated * Electric sounder measurement * Transducer * Pressure-gage * Calibrated pressure-gage * Interpreted from geophysical logs * Manometer * Non-recording gage * Observed * Reported, method unknown * Steel-tape measurement * Electric-tape * Electronic pressure transducer * Calibrated electric tape * Other * Unknown | **Measurement Method Type/Code** - measurement method type/code used to collect groundwater level measurement  ES - Electric sounder measurement ST - Steel tape measurement AS - Acoustic or sonic sounder PG - Airline measurement, pressure gage, or manometer TR - Electronic pressure transducer OTH - Other UNK - Unknown | **MM Code** - specify the method by which water levels were measured.  ES - Electric sounder measurement ST - Steel tape measurement AS - Acoustic or sonic sounder PG - Airline measurement, pressure gage, or manometer TR - Electronic pressure transducer OTH - Other UNK - Unknown | Not reported | **lev\_meth\_cd** - code indicating how the water level was measured. When a water level is entered, the code is mandatory  A - Airline  B – Analog or graphic recorder  C – Calibrated airline  E – Estimated  F – Transducer  G – Pressure-gage  H – Calibrated pressure-gage  L – Interpreted from geophysical logs  M – Manometer  N – Non-recording gage  O – Observed  R – Reported, method unknown  S – Steel-tape  T – Electric-tape  V – Calibrated electric tape  Z – Other (explain in Miscellaneous Remarks)  **Method of Water Level Measurement** - enter code that best describes how the water level was measured  **Water-Level Type Code** - type of water level measured: L (land surface), M (measure point), or S (vertical datum) | Not reported |
| **Measurement Accuracy** | **Measurement Accuracy** - Accuracy of groundwater level measurement.  Includes a list of options to select from. | **Measurement Accuracy** - accuracy of groundwater level measurement | **MA** - estimated accuracy of the groundwater level measurement. | hundredth of a foot | **lev\_acy\_cd** - code indicating accuracy of the water-level measurement.  0 – Nearest foot  1 – Nearest tenth of a foot  2 – Nearest one-hundredth of a foot  9 – Not to nearest foot  U - Unknown  **Water Level Accuracy** - foot, tenth, hundredth, or not to nearest foot | Not reported |
| **Collection Agency** | **Collection Agency** – Full name of collection or co-op agency that collected groundwater level measurement. | **Collecting/Co-op Agency** - full name of the collecting/co-op agency that collected the groundwater level measurement | **Collecting Agency -** Full name of the agency that collected the groundwater level measurement | Not reported | **Agency Code** - Five-character code for the agency that is the source of data for a site or that is responsible for entering into GWSI  **Person Making Measurement** - six-character text field of the person making the water level measurement  **Measuring Agency** - Five-character code for the person who measured the water level | Not reported |
| **Reporting Agency** | **Reporting Agency –** Full name of reporting agency that reports the groundwater level measurement | Not reported | Not reported | Not reported | Not reported | Not reported |
| **Water Level Comments** | **Water Level Comments** - General description or other notes associated with groundwater level measurement. | **Water Level Measurement Comments** - Use this field to explain special circumstances related to the water level measurement not indicated in other fields. | **Comments** - Use this field to explain special circumstances related to the water level measurement not indicated in other fields. Also specify whether the information previously submitted or overwrites existing data. | **GW\_MEAS\_DESC** - DTW general description | Not reported | Not reported |
| Notes:  Text shown in bold font indicates the program specific attribute field name.  Multiple reporting fields may be included in an attribute based on the program’s reporting format. | | | | | | |