Understanding The Data Field Names

This file includes description of the data fields, or the column headings, to facilitate understanding of the information presented. Please contact the DOH HEER Office at (808) 586-4249 with any questions.

Field Descriptions – Pivot Table

The following image shows an example of the pivot table available for download, accompanied by an explanation of the various fields in the table. The image below only shows analytical results for one antimony sample, as other columns and rows have been hidden for simplicity.

	A	B	C	D	E	F	G	H	I	J	Z
1	TMK	Address	City	Count	SMP_ID	SMP_DT	sdgnum	lab_name	unit	Antimony	ex_Antimony
2	2300-1072-0000	151 Pulehunui Road	Kula HI	Maui	KFI-2300-1072-0000-A1	12/12/2023	580-134918-1	Eurofins Seattle	mg/Kg	2.1 J1	

- **TMK:** The Tax-Map-Key location where the sample was collected.
- **Address:** The physical address where the sample was collected.
- **City:** The city where the sample was collected.
- **County:** The county where the sample was collected.
- **SMP_ID:** The identification number (ID) of the sample collected. Each sample has an ID. For each TMK and address, there are multiple sample IDs. This is because DOH uses a sampling approach to collect many different samples from each location (referred to as “decision units”). The format of the sampling ID is as follows: [city where sample was collected] - [12-digit TMK] - Descriptor. The descriptors are as follows:
    - -A1, -A2, etc.: The decision unit where the sample was collected.
    - -R: Re-scrape samples collected at the same site. These samples are the final samples taken.
    - -T1/T2/T3: Field triplicate, which is used for quality assurance.
    - -L1/L2/L3: Laboratory replicates, which are used for quality assurance.
    - -AVG: Average of the quality assurance samples (not the property sample).

- **SMP_DT:** The date the sample was collected.
- **Sdgnum:** The sample delivery group number (an assigned identification number for groups of samples).
- **LAB_NAME:** The name of the laboratory that performed the analysis and reported the result.
- **UNIT:** The unit of measurement for the sample; e.g., mg/kg = milligrams/kilogram.
- **Columns J through Y:** The sampling result for each metal analyte (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc). Some values will have additional letters at the end (e.g., "J", indicating that the value is an estimate).
- **Columns Z through AO:** These columns indicate a sampling result above the identified "cleanup goals," as indicated by a "Y" = Yes; "Y_C" = Yes, Commercial.
  Field descriptions for the full dataset are presented below for reference.

Field Descriptions – Full Dataset

- **TMK:** The Tax-Map-Key location where the sample was collected.
- **Address:** The physical address where the sample was collected.
- **City:** The city where the sample was collected.
- **County:** The county where the sample was collected.
- **SMP_ID:** The identification number (ID) of the sample collected. Each sample has an ID. For each TMK and address, there are multiple sample IDs. This is because DOH uses a sampling approach to collect many different samples from each location (referred to as "decision units"). The format of the sampling ID is as follows: [city where sample was collected] - [12-digit TMK] - Descriptor. The descriptors are as follows:
  - -A1, -A2, etc.: The decision unit where the sample was collected.
  - -R: Re-scrape samples collected at the same site. These samples are the final samples taken.
  - -T1/T2/T3: Field triplicate, which is used for quality assurance.
  - -L1/L2/L3: Laboratory replicates, which are used for quality assurance.
  - -AVG: Average of the quality assurance samples (not the property sample).
- **SMP_DT:** The date the sample was collected.

- **LABSID**: A unique identification number assigned to the sample by the laboratory for tracking and quality control purposes.
- **Sdgnum:** Sample delivery group number (an assigned identification number for groups of samples).
- **MATRIX:** Type of environmental media being sampled.
- **ANLYGRP**: Analytical sampling group (e.g., metals).
- **ANLY_METH:** Analytical sampling method.
- **ANALYTE:** The parameter being sampled.
- **LAB_RESULT:** The analytical sampling result.
- **LAB_QUAL:** Qualifiers provided by the laboratory. For example, some values will have a "J" at the end, indicating that the value is an estimate.
- **VAL_RESULT:** Validated result (the final analytical result after it has been reviewed).
- **VAL_QUAL:** Validation qualifier (code from the laboratory on how to interpret the result).
- **UNIT:** The unit of measurement for the sample; e.g., mg/kg = milligrams/kilogram.
- **MDL:** Method detection limit (the lowest concentration of an analyte that the laboratory can detect).
- **REPLIM:** Replicate sample analysis limit (a quality control measure performed by the laboratory).
- **CAS_NO:** Chemical Abstracts Service (CAS) registry number (an identification number assigned to a chemical substance).
- **LAB_NAME:** The name of the laboratory that performed the analysis and reported the results.
- **CLEANUP_GOAL:** The cleanup goals refer to the Environmental Action Levels (EALs), which are screening values for human health. These values can be compared to the "LAB_RESULT" results (Column M). If the value of the "LAB_RESULT" is higher than the "CLEANUP_GOAL" (Column V) or the "COMM_IND_EAL" (Column W), the sample has exceeded the cleanup goal or commercial/industrial EAL.
- **COMM_IND_EAL:** Commercial/EAL for the analyte.
- **EXCEED_CRITERIA:** This column indicates a sampling result above the identified "cleanup goals," as indicated by a "Y" = Yes; "Y_CommInd" = Yes, Commercial/Industrial. Blank cells indicate no exceedance.