

The TerraBase® V2.7 Soil Lithology “SL” EDD

Data Formatting and Data Library Guide for Project Managers, Contractors, and Sampling Crews:

All EDD data must be presented as a Microsoft Excel® file within the strict limitations of the format described in the following table. However, even if the formatting of the EDD is completely correct, the Project Manager may choose to reject the EDD if the contents of that file do not comply with the data-library standardization requirements detailed within the attached Appendices and data libraries.

Additionally, for special projects and uses, a Project Manager responsible for data standardization may provide additions to the standard data libraries for the contractor’s special use within those projects. Any such additions must be provided under separate cover and do not take the place of this generic data standards document.

The TerraBase® Environmental Data Management System stores soil lithology information from separate geographic facilities in segregated regions within the database structure. For this reason, soil lithology information from separate facilities can never be combined within a single EDD file. However, data from multiple Sampling Events/Dates performed by the same contractor for the same Facility may (at the discretion of the Project Manager) be included within the same EDD file.

“SL” EDD data format description:

Excel Column	Field Name	Data Type: Length	Description
A	Sample Point	Text: 20	Georeferenced data point from which lithology samples were taken. This field is required for data that is to be modeled, and is INITIALLY ASSIGNED BY THE PROJECT MANAGER . It must have consistent nomenclature with the Sample Point Id’s found in the client database or associated “SP” edd file.
B	Geologic Unit Top Depth*	Real decimal	Lithology Unit Top Depth – Shallowest Depth (in feet or meters below Land Surface) where this lithological layer is encountered in the same core/boring.
C	Geologic Unit Bottom Depth*	Real decimal	Lithology Unit Bottom Depth - Deepest Depth (in feet or meters below Land Surface) where this lithological layer is encountered in the same core/boring.
D	Soil Type	Text: 3	Soil Type (i.e., USCS code. See valid entry list in Appendix)
E	Field Log Soil Type	Text: 15	Soil Type as logged by sampler. (e.g. “Silty Clay”)

F	Lithology Comments	Text: 255	Lithology Comments - include any text comments related to the lithology measurement reported in this record. The comment should only include details regarding the specific core/boring under study... avoid generic information which is related to the USCS code applications. Do not use special characters such as “Tabs” or “Carriage Returns”
G	Sampler Type	Text: 20	Sampler Type – (Ex: “Shelby Tube” or “Split Spoon”, etc.)
H	Field Screening Reading	Real decimal	Field Screening Reading (in ppm)
I	Std Pen Test Results	Real decimal	Standard Pen Test

* Must be reported in the correct units of measure (Feet or Meters) as designated by the project manager. This information may be obtained by reviewing the Client table in “**Mixing**” **English and Metric** units of measure in this SL EDD format is not permitted.

Appendix – Standard TerraBase® codes for use with aforementioned EDDs and reports:

This section is provided for engineering and contractor staff reference when constructing hard copy reports and EDDs in the aforementioned applicable formats for data submission **to the PROJECT MANAGER**. These codes are maintained in user-defined lists. Be sure to review these lists with the project manager before submitting any geotechnical edds.

1. Soil Type (SL EDD Column D)

USCS Soil Type	Soil Type Description
AS	Artificial Surface (not a USCS group symbol)
CH	Inorganic clays of high plasticity, fat clays.
CL	Inorganic clays of low to medium plasticity; gravelly clays, silty clays, sandy clays, lean clays.
CR	Concrete (not a USCS group symbol)
FI	Fill (not a USCS group symbol)
GC	Clayey gravels and gravel-sand-clay mixtures.
GM	Silty gravels and gravel-sand-silt mixtures.
GP	Poorly graded gravels, gravel-sand mixtures, little or no fines.
GW	Well graded gravels, gravel-sand mixtures, little or no fines.
K13	Aggregate (not a USCS group symbol)
MH	Inorganic silts, micaceous or diatomaceous fine sands or silts,
ML	Inorganic silts, very fine sands, rock flour, silty or clayey fine sands.
OH	Organic clays of medium to high plasticity.
OL	Organic silts and organic silt-clays of low plasticity.
Pt	Peat, muck, other highly organic soils.
SC	Clayey sands, sand-clay mixtures.
SH	Bedrock shale (not a USCS group symbol)
SM	Silty sands, sand-silt mixtures.
SP	Poorly graded sands, gravelly sands, little or no fines.
SW	Well graded sands, gravelly sands, little or no fines.