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LABS/Q® – Application for Environment Protection

The module of environment protection is an optionally available add-on for LABS/Q® which provides optimal support in the area of operating pollution control and service laboratories of any size.

The so-called project order is the principal item of the environment protection module. A project order defines the scope of inspection for long-term studies and describes aspects of special environment protection characteristics (e.g. monitoring of sewage treatment plants, operational control studies, residue inspections, emission and immission projects, monitoring of raw and drinking water etc.).

In a project order you specify sampling points and samples (types, kind of sampling, pre-treatment, reprocessing). Additionally you set up the required scopes of inspection (specification properties) including definition of warning and alarm limits. In LABS/Q®, project orders are ruled by a version control system.

Environment Type	Internal Type	Description
WASTE H2O	51	Waste water studies
GENERAL	50	General environment protection studies
SOIL	55	Soil studies
EMISSION	54	Emission studies
IMMISSION	53	Immission studies
PRODUCT	57	Product/Material studies
WASTE	56	Waste product studies
WATER	52	Water projects

The data structure of project orders is comparable to the log plan structure.

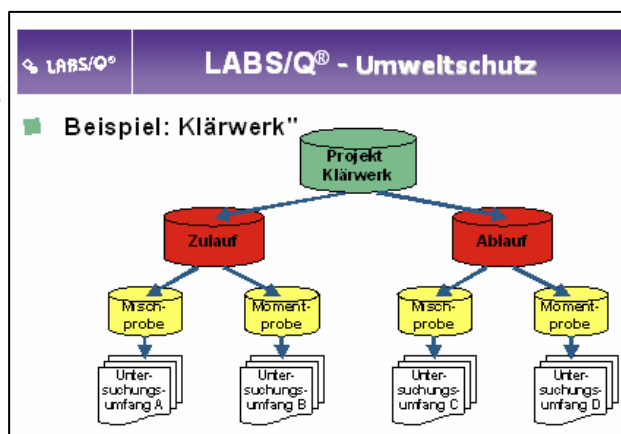
Both serve as a base for submissions (inspection orders). Based on such a project order, submissions contain the required scopes of inspection and will be generated in status "planned".

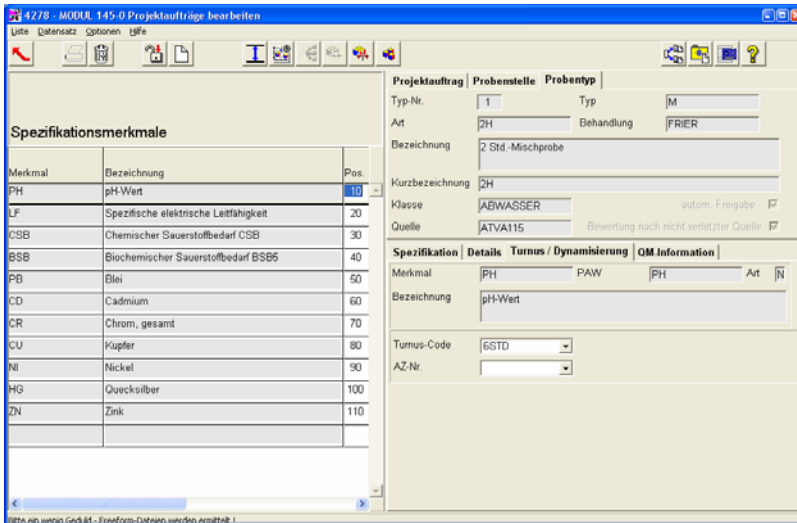
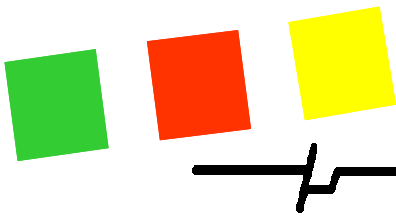
In order to classify different areas of application project orders are assigned to environment types.

Features for Environment protection

The LABS/Q® module of environment protection contains the following functionalities which are necessary for project orders in the field of environment protection:

- Definition of project start and run time
- Setup of report forms and report distribution (recipient, user group)
- Inserting of already registered sample points and special sample points
- Definition of samples for each sample point by specifying: a sample type (e.g. instant sample, mixed sample, micro-biological sample, pellets), a sample kind





(e.g. qualified random test, 2-hours mixed sample, representative mixed sample) as well as sample pre-treatment (cooled, acidified, stabilized)

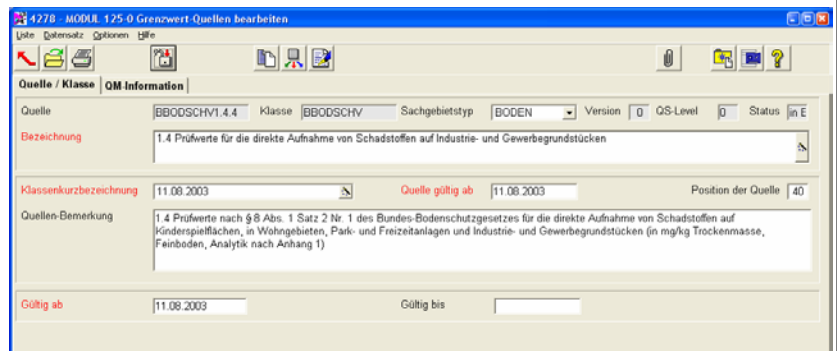
- Assigning external limit classes and or limit sources (even multiple limit sources can be assigned to the same class!)
- Inserting of specification properties and/or property groups including assignment of specification limits (warning limits, internal and external specification limits)
- Assigning schedule templates to specification properties. Even identical time patterns (e.g. every 26 hours) but with different starting points can be arranged.

- Automatic generation of planned submissions by LABS/Q[®]. Only the released version of the project order is taken into account.

Lists of Limit Sources

For each sample of the project order a list of limit sources can be assigned. Such a list is ruled by the LABS/Q[®] version control system and belongs to a certain limit class and limit source.

LABS/Q[®] will automatically generate and register submissions based on a released version of the project order. In the LABS/Q[®] module of result entry, measured values can be entered for such submissions. As soon as a result value has been entered it will be checked and validated immediately by means of the specified limit values.



In this manner, for example residual materials (environment type "WASTE") can be checked directly versus multiple limit sources simultaneously (e.g. LAGAZ0, LAGAZ11, LAGAZ12, LAGAZ2, TASI1, TASI2, SAD).

