



# Should I Drink

## Data Dictionary

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## 1. Introduction

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A data dictionary is a collection of metadata such as object name, data type, size, classification, and relationships with other data assets. It is used by data administrators, analysts, and engineers to understand and trust data assets. It helps in the creation of authentic, transparent, and consistent data throughout the organization.

In this data dictionary, following servers are chosen for documentation:  
Hulligans EC2 DB (PostgreSQL)

For each server, definitions of tables (entities/collections), views, functions are listed in order. Detailed properties of data elements (data type, size, nullability, optionality, indexes, foreign keys, constraints) are organized in tabular format.

## 2. Server: waterquality\_dev\_v1 (PostgreSQL)

Version: PostgreSQL 16.3

1 database is listed below.

### 2.1. Database: waterquality\_dev\_v1

Development version of the database, not for production.

1 schema is listed below.

#### 2.1.1. Schema: public

standard public schema

Database objects to be listed: 8 tables

##### 2.1.1.1. Tables

###### 2.1.1.1.1. Table: acceptable\_aesthetic\_determinands

###### Fields

Pos	Name	Type	Not Null	Others
1	last_updated	date		
2	choride	(Type)		
3	hardness_total	(Type)		
4	calcium	(Type)		
5	ph	(Type)		
6	ph_field	(Type)		
7	sodium_dissolved	(Type)		
8	sulphate	(Type)		
9	water_temperature	(Type)		
10	oxygen_dissolved	(Type)		
11	magnesium	(Type)		
12	silica	(Type)		

#### 2.1.1.1.2. Table: acceptable\_chemical\_determinands

Contains records for non-aesthetic acceptable determinands.

##### Fields

Pos	Name	Type	Not Null	Others
1	last_updated	date		
2	nitrate_nitrogen	(Type)		
3	e_coli	(Type)		
4	total_coliforms	(Type)		


#### 2.1.1.1.3. Table: acceptable\_determinands\_v2

##### Fields

Pos	Name	Type	Not Null	Others
1	chloride	jsonb		
2	hardness_total	jsonb		
3	calcium	jsonb		
4	ph	jsonb		
5	ph_field	jsonb		
6	sodium_dissolved	jsonb		
7	sulphate	jsonb		
8	water_temperature	json		
9	oxygen_dissolved	jsonb		
10	magnesium	jsonb		
11	silica	jsonb		
12	nitrate_nitrogen	jsonb		
13	e_coli	jsonb		
14	total_coliforms	jsonb		


#### 2.1.1.1.4. Table: location

## Fields

Pos	Name	Type	Not Null	Others
1	lawawellsiteid 	varchar(255)	✓	
2	lawawellname	varchar(255)		
3	latitude	float8(53)	✓	
4	longitude	float8(53)	✓	
5	address_one	varchar(255)		
6	address_two	varchar(255)		
7	address_three	varchar(255)		


### 2.1.1.1.5. Table: recordings

## Fields

Pos	Name	Type	Not Null	Others
1	well_id	varchar(255)	✓	
2	sample_id 	varchar(255)	✓	
3	recording_date	timestamp(6)		

### 2.1.1.1.6. Table: sample


## Fields

Pos	Name	Type	Not Null	Others
1	sample_id 	varchar(255)	✓	
2	date_recorded	timestamp(6)		
3	chloride	(Type)		
4	hardness_total	(Type)		
5	calcium	(Type)		
6	ph	(Type)		
7	ph_field	(Type)		
8	sodium_dissolved	(Type)		
9	sulphate	(Type)		
10	water_temperature	(Type)		

11	oxygen_dissolved	(Type)		
12	magnesium	(Type)		
13	silica	(Type)		
14	nitrate_nitrogen	(Type)		
15	e_coli	(Type)		
16	total_coliforms	(Type)		


### 2.1.1.1.7. Table: sample\_v2

#### Fields

Pos	Name	Type	Not Null	Others
1	sample_id 	varchar(255)	✓	
2	date_recorded	timestamp(6)		
3	chloride	jsonb		
4	hardness_total	jsonb		
5	calcium	jsonb		
6	ph	jsonb		
7	ph_field	jsonb		
8	sodium_dissolved	jsonb		
9	sulphate	jsonb		
10	water_temperature	jsonb		
11	oxygen_dissolved	jsonb		
12	magnesium	jsonb		
13	silica	jsonb		
14	nitrate_nitrogen	jsonb		
15	e_coli	jsonb		
16	total_coliforms	jsonb		
17	well_id	varchar		

### 2.1.1.1.8. Table: well\_metadata

#### Fields

Pos	Name	Type	Not Null	Others
1	well_id 	varchar(255)	✓	
2	primary_use	varchar(255)		
3	secondary_use	varchar(255)		
4	latitude	float8(53)	✓	
5	longitude	float8(53)	✓	
6	ecan_well_link	varchar(255)		
7	address_one	varchar(255)		
8	address_two	varchar(255)		
9	well_status	varchar		
10	well_type	varchar		
11	well_owner	varchar		
12	driller	varchar		