# WPdx Cleaning Terms for:

- #water source
- #water tech
- #management
- #status

#### And

facility type categorization

A first pass at cleaning is conducted using the terms below and some fuzzy matching using natural language processing. Additional manual cleaning is done on a case-by-case basis.

# #water\_tech to water\_source\_clean mapping

```
WATER TECH MAPPING = {
     'Rope and Bucket': [
        'bucket',
     'Hand Pump - Afridev': [
        'afri'.
        'dev',
        'aferdive',
     'Hand Pump - PB Mark II': [
        'pb',
     -
'Hand Pump - India Mark': [
        'indi',
        'mk',
        'mar',
     'Hand Pump - Nira': [
        'nira',
     'Hand Pump - Vergnet': [
        'verg',
     'Hand Pump - Kardia': [
        'kardia',
     'Hand Pump - Indus': [
        'indus',
     'Hand Pump - Consallen': [
        'consallen',
     'Hand Pump - Inkar': [
        'inkar',
```

```
],
'Hand Pump - Canzee': [
     'canzee',
  'Hand Pump - Pamir': [
     'pamir',
  'Hand Pump - Kabul': [
     'kabul',
  'Hand Pump - SWN 80': [
     'swn 80',
  'Hand Pump': [
     '!not a manual',
     '!hand dug',
     'manu',
     'handpump',
     'bush',
     'hand',
     'elephant',
     'manuelle',
     'rope pump',
     'rope washer pump',
     'ropepump',
     'blue Pump',
     'emas',
  ],
'Stand Post': [
     'tap',
     'Stand',
'standpipe'
  ],
'Kiosk': [
     'kiosk',
  Hydram': [
     'hydram',
  ],
'Mechanized Pump': [
     '!non mechanized',
     'mecha',
     'elec',
     'submersible',
     'submasive',
     'motori',
     'surface pump',
  ],
'Mechanized Pump - Diesel': [
...
     'deisel',
```

```
'diesel',
    'gener',
],
'Mechanized Pump - Solar': [
    'solar',
],
'Tapstand': [
    'tap',
    'Stand',
'standpipe'
],
'Kiosk': [
    'kiosk',
],
```

\*Note that we are working to further refine hand pump types and will continue to update as possible. (ie, Hand Pump - Bush Type, Hand Pump - EMAS, etc.)

# #water\_source to water\_source\_clean mapping

```
WATER SOURCE MAPPING = {
   'Borehole': [
     'tube', 'hole', 'deep', 'drill', 'forage', 'bore',
   'Rainwater Harvesting': [
     'rain',
     'roof'.
     # 'harvest'.
     # 'storage',
     # 'catchment',
   'Sand or Sub-surface Dam': [
     'sand',
     'sub-surface',
   'Undefined Shallow Well': [
     '!unprotected',
     '!protected',
     'dug well',
     'shallow well',
   Protected Shallow Well': [
     '!unprotected',
     '!un protected',
     'protected dug well',
      'protected shallow well',
     'protected tradional hand dug well'
      'protected well',
  ],
'Unprotected Shallow Well': [
     'unprotected hand dug well',
     'unprotected dug well'
     'unprotected shallow well',
     'unprotected constructed hand dug well'
     'unprotected well',
     'unprotected well/',
  ],
'Undefined Spring': [
-facted spring
     '!unprotected spring',
     '!protected spring',
     'Spring',
   'Protected Spring': [
     "!unprotected spring",
     'protected spring',
     'proteced spring catchment',
      'improved spring',
```

```
],
'Unprotected Spring': [
    'unprotected spring',
'unimproved spring',
],
'Surface Water (River/Stream/Lake/Pond/Dam)': [
    '!surface pump',
    'river',
    'stream',
    'lake',
    'pond',
    'surface',
    'dam',
],
'Piped Water': [
'piped'
],
'Delivered Water': [
    'truck'
'Packaged water': [
    'bottled',
    'sachet'
```

# #management to management\_clean mapping

### Community

- Community
- VWC
- Small community WSMT (WATSAN)
- Small community WSMT (WSDB)
- WUG
- WUA
- water committee
- Water Board
- Small town WSMT (WSDB)
- Small Town WSMT (WSDB)
- Reservation Quarters
- watsan
- member
- Elders
- Leaders
- Town Chief
- Traditional rulers
- Area
- Youth group
- Headman
- Opinion
- WASHCOM
- Residents
- Water user association
- Mechanics
- Village
- People
- Assemblyman

# Direct Government Operation

- DWD
- Government
- MOHS
- WSD
- DHMT
- GOSL
- Office of the Prime Minister
- Govt workers
- Ministry
- District
- Gov
- Govt
- salwaco
- city
- assembly

- MDC
- LGA
- Ward
- Federal
- Parish

# Private Operator/Delegated Management

- Operator
- Delegated
- Delegue
- Délégué
- Entrepreneur
- SME
- Enterprise
- company
- Holdings
- Salini construction
- Vendor

# School

- School
- headmaster
- students
- college
- teacher
- Education
- smc
- Primary
- Secondary
- Sch.
- PTA
- Headmistress
- Student
- Principal

# Health Care Facility

- Hospital
- health
- PHU
- clinic
- mch
- nurse
- doctor
- The Incharge

- c.h.c
- cawec
- Maternity
- Healthcare

# Religious Institution

- Religious
- LWF
- Mosque
- ADRA
- EU ADRA
- Catholic
- Church
- Muslim
- Mission
- father kibira
- Moslem

### Other Institution

- Institutional
- military
- police
- prison
- SLRA
- RSLAF
- NACSA
- NASSIT
- MASAF

### Private Person

- Private owner
- Private Person
- Priv?e
- private individual

### Other

- C&D
- UNICEF
- GOAL
- Oxfam
- Lion Heart Foundation
- Mercy Corps
- Medair
- Red Cross
- ACT-U
- World Vision
- GIZ

- ICRC
- Caritas
- PLAN
- Care
- CDC
- Donor
- USAID
- AfDB
- Philanthropist

# No Management structure

- No management
- No manager
- none
- No one
- Nobody
- null
- No maintenance
- Aucune gestion

# #status to status\_clean mapping

## Fully Functional

- Functional
- Always
- No problem
- Operative
- No leak
- Operational
- Fonctionne normalement
- Normal
- No\_pump\_problem
- Working
- No downtime

# Functional but needs repair

- Minor
- Partially
- Partial
- Leak
- Not enough
- Not effective
- Poor
- Fonctionne mal
- Servicing
- Bad state
- Bad shape
- Partly damaged
- Sub-optimally
- But with problems
- Low yield
- Functional but in need

### Not Functional due to dry season

- Dry
- Not enough
- Seasonal
- It is dry
- Not enough water
- Natural
- Low water
- Water shortage

# Not functional and needs repair

- Major
- Broken

- Not working
- Not Function
- Non-Functional
- Not functional
- Not functioning
- Non functional
- Non-func
- Non-Operational
- En panne
- Non équipé
- Repair
- Not Working
- Rehabilitation
- Construction
- Breaking
- Spare parts
- Mechanic
- Break
- Damaged
- Dead

### Abandoned

- Abandoned
- Not in use
- Collapsed
- No longer
- Abondaned
- Stolen
- Permanently
- Abandonné
- Deactivated
- Disused

### Other

- Funds
- Management / financial problem

## Facility Type Categories (facility\_type):

### Improved:

- Borehole
- Protected shallow well
- Protected well
- Protected spring
- Undefined shallow well with hand pump
- Undefined spring with tapstand
- Undefined well with mechanical pump
- Rainwater harvesting
- Piped water\*
- Sand or Sub-surface dam (with hand pump and/or described as protected)
- Packaged water\*\*
- Delivered water\*\*
- Tapstand (when no source is provided)
- Kiosk (when no source is provided)
- Mechanized pump (when no source is provided)

## **Unimproved:**

- Unprotected shallow well
- Unprotected spring

#### No Facilities:

• Surface water (river/stream/lake/pond/dam)

#### **Unknown:**

- Undefined shallow well with no #water tech information provided (ie, handpump, tap, etc.)
- Undefined spring with no #water tech information provided (ie, handpump, tap, etc.)

<sup>\*</sup> Assumed to be standpipe/tapstand as a specific GPS location has been provided

<sup>\*\*</sup> These are included in the WPdx+ dataset, but not in analyses to determine population with basic access as the number of people using these sources is undefined.