**LANDFILL SITE HISTORY**

**Oct 1962**
City of Fort Collins purchased north half of Section 9

**Nov 1967**
Fort Collins deeded shares of ownership to Larimer County, City of Loveland [50%, 25%, 25%]

**1963**
Fort Collins started burying trash (Trench & Fill)

**1969-1974**
Drag-line trenches

**1975**
IGA - Larimer County begins operating landfill

**1975-present**
Area-fill

**1979, 1984**
Larimer County purchased south half of Section 9
Federal / State
“Criteria for Municipal Solid Waste Landfills”
RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) – SUBTITLE D

Effective Oct 1993

• Landfill Siting
• Design/Construction
• Operation
• Closure/Post-Closure Care
• Environmental Monitoring
• Financial Assurance
potential to cause groundwater pollution

Precipitation

Final Cover

Refuse

Leachate Collection System

Leachate

Barrier Layer (HDPE Liner + Clay)

Native Soil

Water Table
GROUNDWATER POLLUTION

No Bottom Liner/Leachate Collection System

Waste Buried Below Water Table

Hazardous Wastes

Clay Cap

Water Table

Cross-Section
Larimer County Landfill (Phase 1 Area)
GROUNDWATER POLLUTION

Volatile Organic Compounds (VOCs)

- Chloroethane
- 1,1-Dichloroethane
- cis-1,2-Dichloroethene
- trans-1,2-Dichloroethene
- 1,1,1-Trichloroethane
- Trichloroethene
- Vinyl chloride

Cross-Section
Larimer County Landfill (Phase 1 Area)
Groundwater Monitoring

- Groundwater sampling 2-4 times/year
- Testing for 47 VOCs + metals and inorganic compounds
- VOC concentrations decreasing (due to Biodegradation)
- Extent of contamination not increasing
- No downgradient receptors
- Monitored Natural Attenuation (MNA)
Smith Creek Drainage
Franz Farm

NOTES:
1. FT MSL - FEET ABOVE MEAN SEA LEVEL
2. µg/L - MICROGRAMS PER LITER
3. TEMPORARY WELLS GAUGED TO THE NEAREST TENTH OF A FOOT ON OCTOBER 19, 2018 AND MAY NOT BE REPRESENTATIVE OF STATIC GROUNDWATER ELEVATION
4. MONITORING WELLS/PIEZOMETERS GAUGED ON OCTOBER 19, 2018
5. MOST RECENT 1,4-DIOXANE CONCENTRATION DATA SHOWN - BLANK IF NOT SAMPLED
6. 1,4-DIOXANE CONCENTRATIONS ABOVE 0.35 µg/L SHOWN IN BOLD

1,4-dioxane
1,4-Dioxane Contamination

- Determine downgradient extent of contamination
- Install new monitoring wells
- Sample downgradient domestic wells
- Complete Assessment of Corrective Measures
- Remedial action
- Public Relations