

Identifying and Permitting a New Facility



ENVIRONMENTAL SERVICES
CITY OF PORTLAND

working for clean rivers

Presented by

Miguel Santana

Environmental Program Manager

miguel.santana@portlandoregon.gov

(503) 823-7568

Portland, Oregon

"Stump-Town USA"





#62 TANNER CREEK SEWER APR. 23 '17
W. from Sta 3 + 17

1928



7-27-28

MAISON — NAMT 28



Portland Today



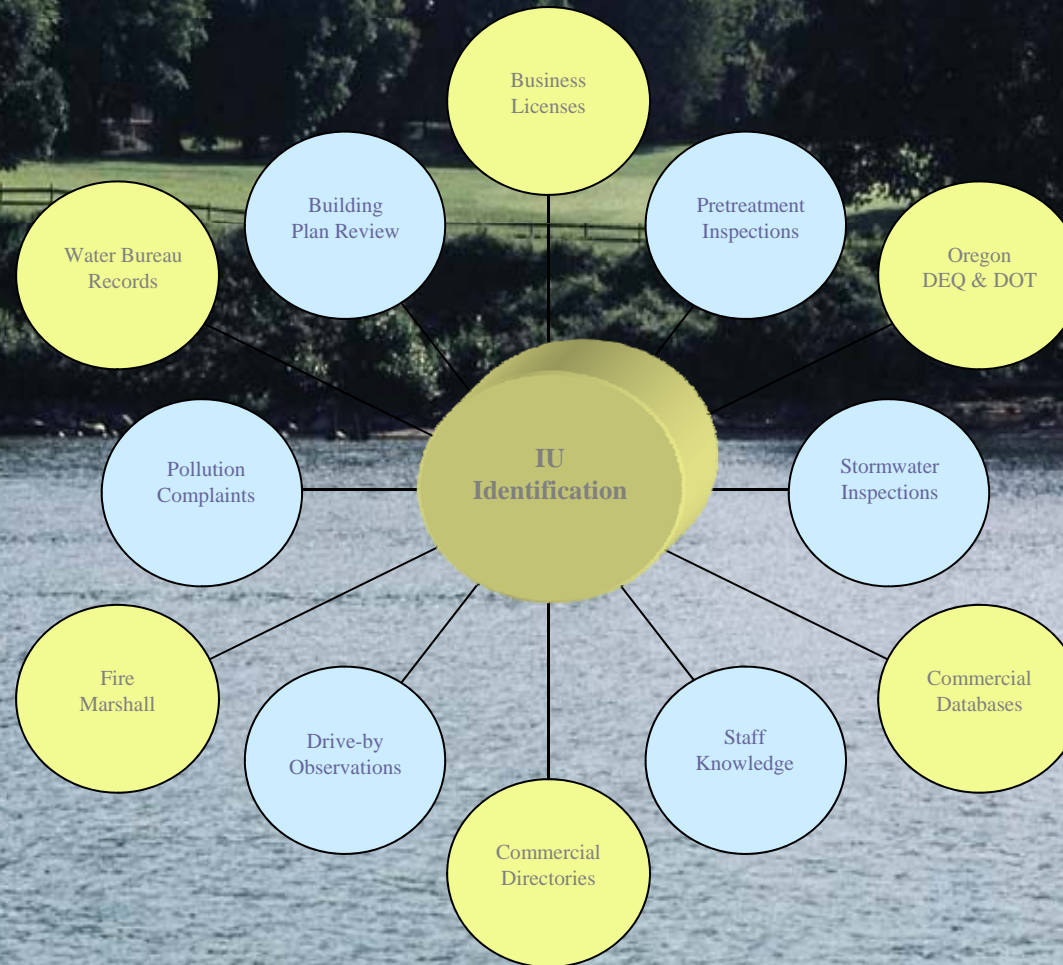
City of Roses

- >566,000 Residents
- >213,000 Rate Payers
- >2,300 Miles of Sewer Lines
- 96 Pump Stations
- 12,000 Industrial/Commercial
- 168 Permitted Facilities

Columbia Blvd. Treatment Plant



Industrial User Identification



Survey Process

- Survey 1
- Survey II
- Permit Application



Permitting Criteria

- Significant NCIU Industrial User
- Significant - Categorical Facility
- > 10,000 Gal. Process Wastewater (NSIU)
- Required to Pay High Strength Sewer Charges

Permit Limits

- Local Limits
- Categorical Limits
- Permit-Specific Limits



Local Limits

Metals (Total)	mg/L
Arsenic	0.2
Cadmium	0.7
Chromium	5.0
Copper	3.7
Lead	0.7
Mercury	0.010
Molybdenum	1.4
Nickel	2.8
Selenium	0.6
Silver	0.4
Zinc	3.7
5 ≤ pH ≤ 11.5	

Non-Metals	mg/L
Cyanide	1.2
Fats, Oil and Grease	110
Organics	
Acrylonitrile	1.0
Chlordane	0.03
Chlorobenzene	0.20
Chloroform	0.20
1,2 Dichloroethane	0.5
2,4 Dinitrotoluene	0.13
Nitrobenzene	2.0
Pentachlorophenol	0.04
Trichloroethylene	0.20



Categorical Standards

- 40 CFR 413 Electroplating
- 40 CFR 419 Petroleum Refining
- 40 CFR 428 Rubber Manufacturing
- 40 CFR 433 Metal Finishing
- 40 CFR 437 Centralized Waste Treatment
- 40 CFR 439 Pharmaceutical Manufacturing
- 40 CFR 442 Transportation Equipment Cleaning
- 40 CFR 446 Paint Formulating
- 40 CFR 447 Ink Formulating
- 40 CFR 455 Pesticide Chemicals
- 40 CFR 464 Metal Molding and Casting
- 40 CFR 467 Aluminum Forming
- 40 CFR 469 Electrical and Electronic Components

Permit-Specific Limit

- Case-by-case basis
- Technical evaluation
 - Are not amenable to treatment
 - May cause pass through or interference
 - May create worker health and safety problems

Current Permit-Specific Limits

- BOD
- TSS
- TDS
- pH

Case Study



“How not to wake
the neighborhood”



What Happened?

- Existing Industry
- Centralized Waste Treater
 - Subcategory B
 - Septage Treatment
 - Grease Trap Treatment



What were the Challenges?

- Odor Problems
- Neighborhood Association Complaints
 - Made the Local News
 - Zoning Concerns
 - Traffic Problems
 - City Council got involved
- Pretreatment Code does not have jurisdiction over air quality

Solutions

- Participate in neighborhood meetings
- Require IU to install odor abatement equipment
- Place facility under a Compliance Order
- Issue Notice of Termination
- Triggered Land Use Review Hearings
- Limit IU activities to non-waste related activities
- Modify Industrial Discharge Permit



What We Learned

- Start the Process at Planning Department
- Involve All Stakeholders
- Go Through Public Notification
- Zoning Problems can be complicated
- Pretreatment won't solve all IU Problems



SNN