



Stormwater Inventory Project Description & Update

SEMSWA GIS Program

1/2009

SEMSWA GIS



Outline

- Stormwater Inventory described
- GPS/GIS Process
- Status & Future Directions
- Benefits & Uses

Stormwater Inventory & Geodatabase

- Geodatabase
 - Layers
 - Tables



ID	TYPE	COMMENTS	SOURCE	ASSEMBLY	REPORT DEPTH	INLET LENGTH	COMBO TYPE	TYPE DESCRIP
1	TYPE R		Surveyed with Handheld GPS		12.5	0		
2	TYPE R		Surveyed with Handheld GPS		7	0		
3	TYPE R	unknown inv	Surveyed with Handheld GPS		0	0		
4	TYPE 13		Surveyed with Handheld GPS		2.5	0		
5	TYPE R		Surveyed with Handheld GPS		4.5	0		
6	TYPE R		Surveyed with Handheld GPS		2.5	0		
7	TYPE R		Surveyed with Handheld GPS		4.5	0		
8	TYPE R	culvert got m open	Surveyed with Handheld GPS		0	0		
9	TYPE R		Surveyed with Handheld GPS		3	0		
10	TYPE R	Blocked by ice	Surveyed with Handheld GPS		0	0		
11	TYPE 13		Surveyed with Handheld GPS		13	0		Grated
12	OTHER	Grates top m w/ side grate	Surveyed with Handheld GPS		5	0		Grated
13	OTHER	Grates m unknown config	Surveyed with Handheld GPS		5	0		Grated
14	OTHER	Grates m unknown config	Surveyed with Handheld GPS		4.5	0		Grated
15	TYPE R	Drain into box culvert	Surveyed with Handheld GPS		0	0		
16	TYPE R	Drain into box culvert	Surveyed with Handheld GPS		0	0		
17	TYPE 13		Surveyed with Handheld GPS		2.5	0	Single	
18	TYPE 13		Surveyed with Handheld GPS		3.5	0	Single	
19	TYPE R	unknown inv	Surveyed with Handheld GPS		0	0		
20	TYPE R		Surveyed with Handheld GPS		4.5	0		
21	TYPE R		Surveyed with Handheld GPS		6.3	0		

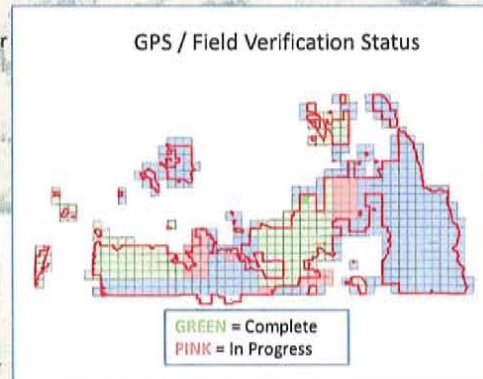
GPS/GIS Process

- General Description
 - Field crews: two teams of maintenance personnel & periodic internships
 - Approach
 - Outfall (drainageway)
 - Grid
 - Trace the entire system
- Process:
 1. Pre-Collection Planning
 2. GPS Field Verification
 3. Post Processing
 4. GIS Integration (supplement with aerial photography and LIDAR)



Status & Future Directions

- Status (current efforts)
 - Complete initial field verification of all stormwater features (~50%)
 - Database Design (done)
 - Deployment (~50%)
 - Cartegraph Integration (~10%)
- Future
 - "Network" creation / modeling
 - Elevation component
 - Full Documentation
 - Share with neighbors (edge-matching)



Benefits of Accuracy

- Spatial Accuracy
 - Submeter
 - Verified features are where we think they are.
- Attribute Accuracy
 - Through field verification & GPS/GIS, we know the condition, capacity, and cost of our stormwater system.
- Reliability! Remove the guesswork.
 - Asset Reporting
 - Forecasting & Planning