Science & Environment Division


Sacajawea Park Wetland 2009


Community Environmental Fair 2009

Service Level Report
FY09

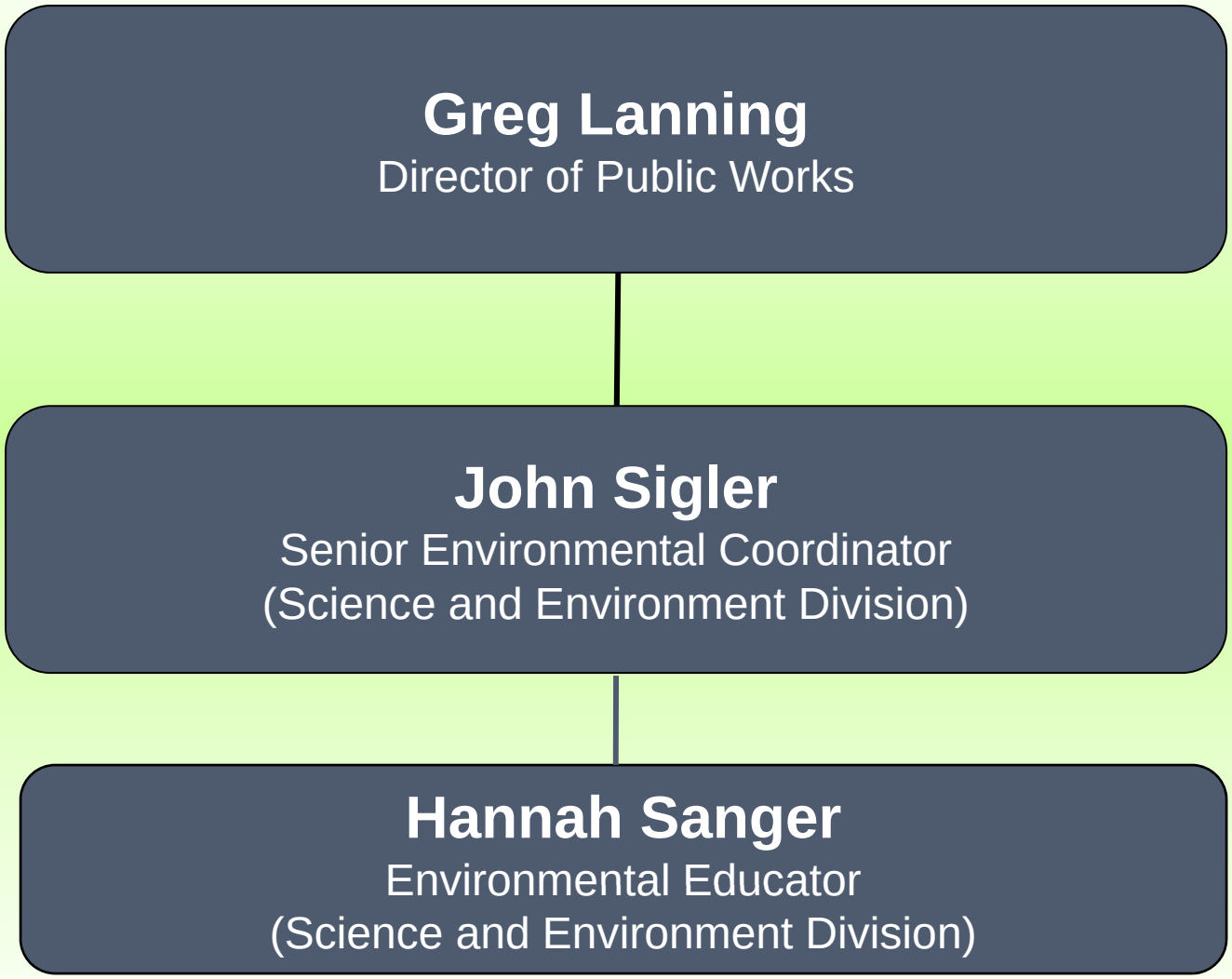
Mission

- Manage the federal Pocatello Urbanized Area NPDES storm water permit to achieve permit requirements and resultant water quality improvements for all the copermittees.

- Provide credible scientific information and advice to the mayor, council, and city staff on issues relevant to Pocatello's quality of life and surrounding environs.

- Community education and outreach on a variety of local environmental issues.

Division Organization



Measures of Inputs

People

Engineering - Sci & Enviro	FY05	FY06	FY07	FY08	FY09	FY10	FY05-FY09 Change
Full Time	0	0	1	1	2	2	2

Money

	FY 2005 ACTUAL	FY 2006 ACTUAL	FY 2007 ACTUAL	FY 2008 ACTUAL	FY 2009 ACTUAL	FY 2010 BUDGET
SCIENCE & ENVIRONMENT FUND						
Labor			67,421	82,088	133,845	137,624
Operating			63,841	118,240	106,445	159,723
Capital			12,858			
Total			**144,120**	**200,328**	**240,290**	**297,347**
CPI	199.2	201.8	208.9	216.6	216.2	
Real FY05 $	0	0	137,404	184,258	221,419	
% Change in Real FY05 $, FY07-FY09					61.14%	

Inherited Capital

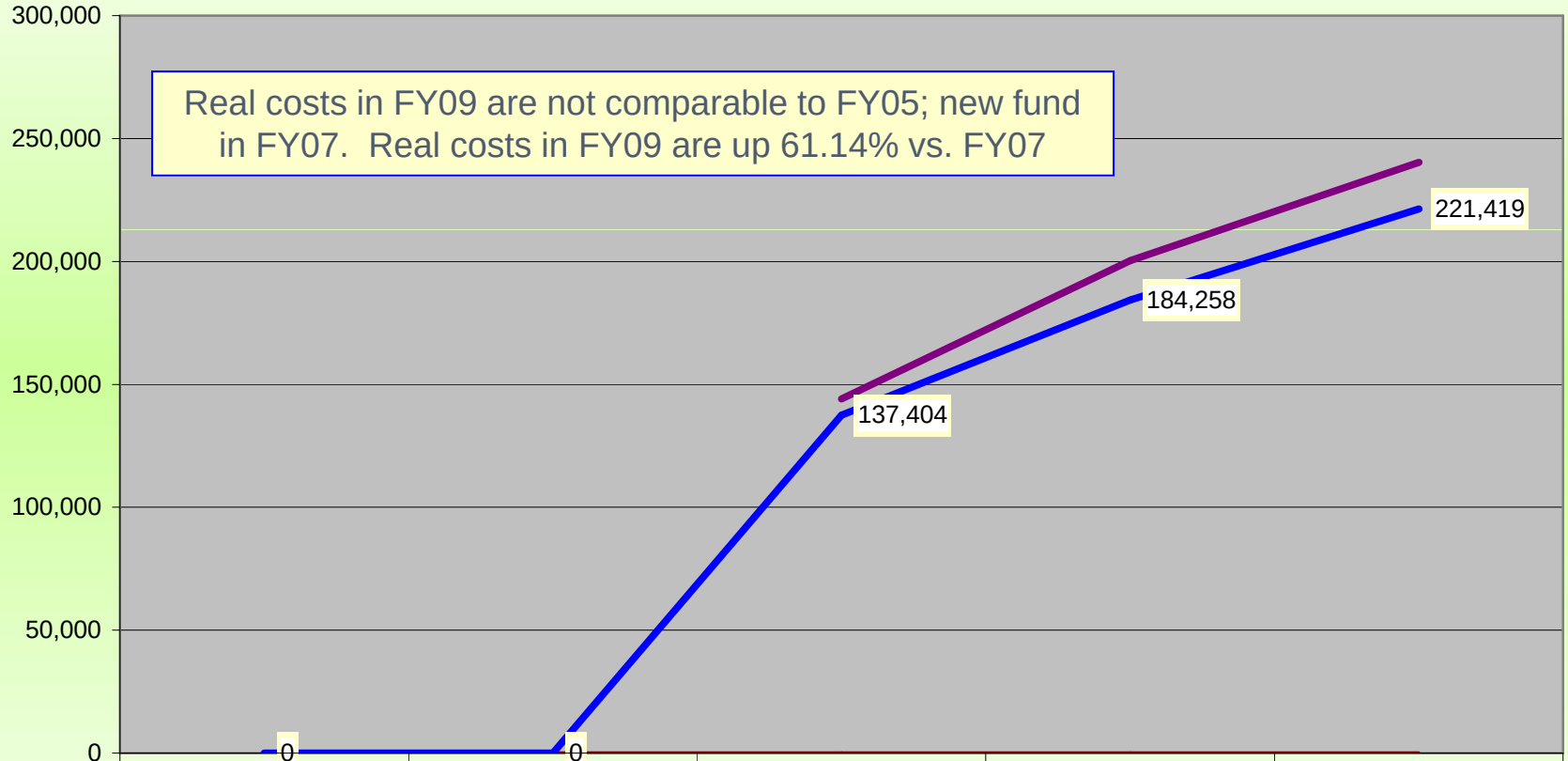
Water & discharge monitoring equipment

Note: New Fund in FY07

Previously part of Engineering; previous to that was Fund 036 (Stormwater); previous to that was in Engineering

Analysis of Inputs

Science & Environment Fund
Nominal & Real FY05-FY09



	ACTUAL FY 2005	ACTUAL FY 2006	ACTUAL FY 2007	ACTUAL FY 2008	ACTUAL FY 2009
Total			144,120	200,328	240,290
CPI	199.2	201.8	208.9	216.6	216.2
Real FY05 $	0	0	137,404	184,258	221,419

Selected Outputs

Storm Water

- **Administration:** Successfully completed 3rd year of 5-year federal storm water permit for Pocatello Urbanized Area.
    - City is co-permittee with Chubbuck, ITD, & Bannock County.
- **Outreach:** Developed TV PSAs, storm water awareness survey, covered loads campaign, City Creek Masterplan development, K-12 education.
- **Construction Sites:** Trained 500 local contractors, and implemented program.
- **Post-Construction:** Completion of Sacajawea Park storm water wetland.
- **Monitoring:** Completed Watershed Advisory Group (WAG) participation for Portneuf River Total Maximum Daily Load (TMDL) process.

Energy Use and Efficiency

- Re-established 50 meter anemometer tower for wind turbine farm potential for Pocatello.
- Energy efficiency audit conducted for municipal buildings

Sacajawea Park
Engineered Wetland

Measures of Efficiency

Storm Water

- **Programmatic costs vary widely across the United States,** depending on watershed and land use characteristics.
  - **Stormwater utilities across the U.S. collect $9-202/household/year** (2007)
  - **Pocatello has several features that make an effective stormwater program in this location more expensive than average:**
    - Portneuf is TMDL listed, steep slopes, shallow aquifer, fine sediments
    - Aging infrastructure suffers from deferred maintenance

- **Comparative data suggests that Pocatello is significantly underfunded for the population and area served.**
  - **2009 budget* of ~$14/household/year** (assuming 17,000 households).
  - **Deferred maintenance will continue to occur** and will result in higher than average costs in the future.

This does NOT include funds for street sweeping, drainage inspections, mapping the system, some monitoring and some erosion and sediment control costs associated with development..

Outcomes:
Effectiveness and Results

Storm Water

- **Administration:** Recovered legal and permit management costs from partners.
  - $39,000

- **Education and Outreach:** *TBD* (initial baseline survey results will be available in 2010).

- **Construction Sites:** Decreased sediment coming off of construction sites in 2009.

- **Post-Construction:** Sacajawea Park wetland removed hundreds of tons of sediment from storm water that would have gone into the Portneuf.

- **Good Housekeeping:** Street sweeping removed more sand than was applied. Improved snow management (brine replacing sand and salt).

Outcomes:
Effectiveness and Results

Other

- **Community Environmental Fair:** 3500 attendees in 2009
- **City Creek:** Master plan created and approved by City Council
- **Wind Farm Development:** Have one (1) year of wind speed data.

Explanatory Factors

Need for Storm Water Program

- Sensitive topography and watershed
  - Steep slopes, shallow aquifer , fine sediment
  - High mountain desert valley
- Aging infrastructure and changing storm water paradigms
- TMDL listed Portneuf River
- Significant airborne sediment deposited from areas west of Pocatello.
- EPA MS4 NPDES permit is required.

Issues and Concerns

Storm Water

- **Required post-construction program** requires significant changes to development process and ordinances *by end of 2010*.
- **Significant deferred maintenance** on most of the City's storm water infrastructure.
- **Required construction site** erosion and sediment control program and **illicit discharge program** difficult to manage at current staff levels.
- **New federal rules coming**:
  - Proposed new numerical standards for storm water
  - Proposed additional reporting requirements