



WWTP Outfall and Sediment Study

CITY COUNCIL WORKSHOP

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SCOTT COLLINS, PUBLIC WORKS DIRECTOR

ROB CHARLES, UTILITIES MANAGER

ANDREW STAPLES, HDR

Agenda

- Background
- Ecology Requirements
- Evaluation/Scope
- Task 200 Breakdown
- Subconsultants
- Sediment Report
- Cost Breakdown
- Additional Items to Consider



Background

- Waste Water Treatment Plant (WWTP) issued new National Pollutant Discharge Elimination System (NPDES) permit issued August 1, 2025
- One new condition required completion of an outfall and sediment study.
- Study to confirm discharge is not impacting Columbia River
- HDR supporting City's WWTP planning, permitting, and upgrade projects
 - Competitive RFP process
 - Has previously issued task orders
 - Task order 9 was submitted to complete this work



Ecology Requirements

- Sediment sampling plan
 - Number of samples
 - Sample locations
 - Sample depth
 - Sampling methods
- In-river sampling procedures
 - Grab samples
 - Controlled sampling handling
- Laboratory analysis
 - Approved analytical methods
 - Required QA/QC procedures
 - Ecology approved
- Biological toxicity testing (Bioassays)
 - Determine if the sediments are contaminated with potentially harmful substances.
- Data analysis and sediment report
 - Sampling Results
 - QA/QC
 - Comparison to sediment quality standards
 - Evaluation of discharge impact

Evaluation/Scope

- Inspect condition of WWTP outfall pipe
- Collect 9 Sediment Samples
- Analyze samples for contaminants
- Confirm plant discharge not impacting river
- Report to Ecology

Task	Description	Hours	Subconsultants	Total
100	Project Management	180		\$41,735
200	Sediment Data Report Field Sampling, Analyses, and Report	528	\$77,175	\$217,514
300	Outfall Evaluation	181	\$14,700	\$53,535
400	Management Reserve			\$15,000
Totals		889	\$91,875	\$327,784

Task 200 Scope Breakdown



•Field Work

- Prep for field work / devices (GIS)
- QA review of field procedures
- 2 days of field work (6 samples/day)
- Follow up meeting
- Lab coordination/mailing

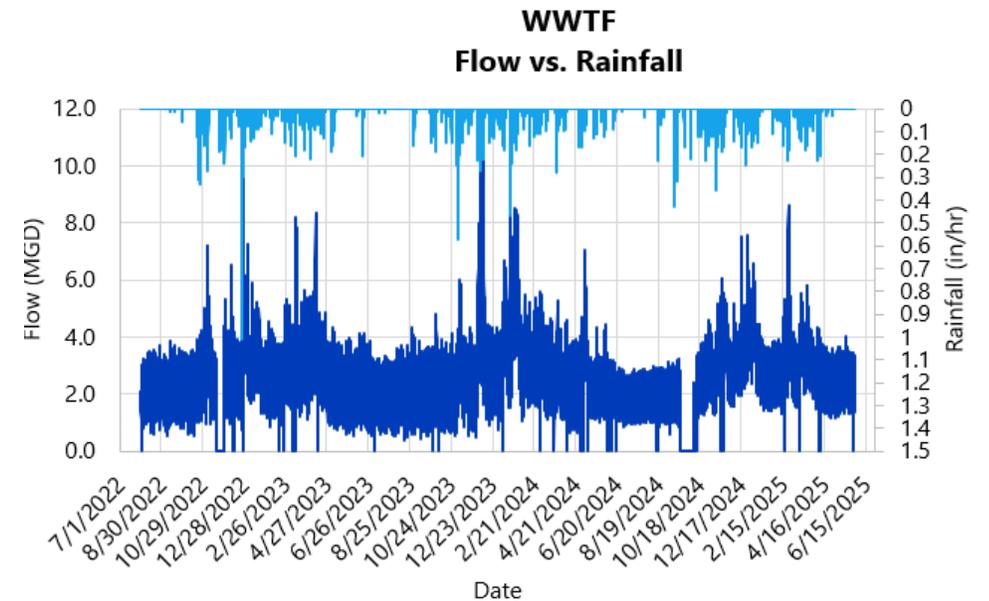
•Data Analysis, Recordkeeping, and Reporting

- Review data from lab
- Coordination with lab (if needed)
- QA/QC data from lab
- Sediment Study Report
- Meeting with City on Draft Report
- Meeting with Ecology
- Report edits and finalize

•Health and Safety Plan

Subconsultants

- Ballard Marine
 - Boat and Full Crew (Captain and two tenders)
 - Also require bathymetric survey; checking river bottom for obstructions/debris, significant changes, and general topography
- Analytical Resources (AR)
 - Chemical analysis of sediment sampling
 - Quote was for 10 samples; will be slightly less
- EcoAnalysts (EA)
 - Bioassay Testing of sediment sampling
 - Quote was for 10 samples; will be slightly less



Sediment Report



- Assumed 20 pages for actual report
 - Typical range 4-8 hours per page for technical
 - Tends to ramp up with lab data review
 - Ecology comments unpredictable
- Appendices potentially thousands of pages
 - Lab Results
 - QA/QC of lab results
 - Field Logs
 - Site photos for quality of sample
 - Quality assurance report
 - Safety Report
 - EIM data submittal
- Total report estimated a few thousand pages
 - Estimate, unknown until report is put together

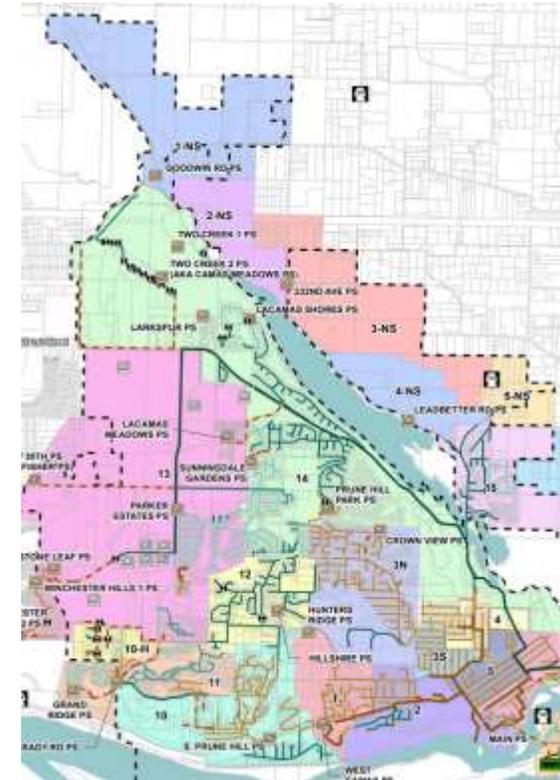
Cost Breakdown

- **Field Work : \$66,537**
 - Ballard (Sub) : \$14,000
 - Largest cost from HDR is during 2 day sampling : \$19,641
 - 3 people sampling
 - PM & Tech also have hours scheduled
 - Expenses : \$6,600
- **Data Analysis, Recordkeeping, and Reporting : \$148,126**
 - Subconsultants : \$62,475
 - AR : \$21,000
 - EA : \$38,500
 - Largest cost from HDR is Sediment Report : \$32,180
 - These items makes up 64% of the budget
- **Health and Safety Plan : \$2,851**



Additional Items to Consider

- HDR only invoices actual hours worked at the billing rates established in the City's existing professional services agreement
- Authorized hours represent a maximum ceiling, not guaranteed billing.
- Existing task orders from HDR typically have been underspent; allowing for savings or if additional work is needed
- The sampling methods, laboratory testing, and reporting requirements are largely dictated by Washington Department of Ecology as part of the NPDES permit



Questions

