

TABLE OF CONTENTS

INTRODUCTION	1
BACKGROUND	1
DIAGONAL/DUWAMISH PROJECT AREA	2
MULTI-AGENCY INSPECTION PROGRAM	3
CROSS-TRAINING	4
BUSINESS INSPECTION PROCESS	4
<i>Full Inspections</i>	4
<i>Corrective Actions and Follow-up</i>	5
<i>Data Management</i>	5
INSPECTION RESULTS	5
<i>Dental Waste Inspections</i>	7
<i>Key Findings</i>	7
<i>Surface Water Quality Complaints</i>	10
<i>Construction Projects in Diagonal Basin</i>	11
SOURCE SAMPLING	12
SOURCE TRACING.....	12
<i>Key Manhole Samples</i>	12
<i>In-line Sediment Traps</i>	13
<i>Catch Basin Samples</i>	13
PHTHALATE SOURCE STUDY	16
<i>Background</i>	16
<i>Products Tested</i>	17
<i>Methods</i>	17
<i>Results</i>	19
<i>Conclusions</i>	20
NEXT STEPS.....	21
BUSINESS INSPECTIONS	21
<i>Duwamish Diagonal</i>	21
<i>Other Areas in the LDW</i>	21
SOURCE SAMPLING.....	22
<i>Source Tracing</i>	22
<i>Phthalate Source Study</i>	22
REFERENCES	23

TABLES

- Table 1. Land use in the Diagonal Ave S CSO/SD basin.
- Table 2. King County and SPU inspectors.
- Table 3. Breakdown of corrective actions requested by program area.
- Table 4. Most common corrective actions identified in Duwamish Diagonal area.
- Table 5. Summary of sites containing elevated concentrations of contaminants in catch basin sediment samples.
- Table 6. Surface water quality complaints.
- Table 7. Construction permits with grading in Diagonal Ave S CSO/SD basin (at end of report).
- Table 8. Stormwater and wastewater phthalate data (at end of report).
- Table 9. Diagonal sediment trap results (2/03 – 3/04)—at end of report.
- Table 10. Diagonal Ave S CSO/SD: onsite CB samples (at end of report).
- Table 11. Right-of-way CB sediment samples (at end of report).
- Table 12. Summary of exceedances of sediment management standards for metals in storm drain sediment samples.
- Table 13. Products tested.

- Table 14. Chemical parameters analyzed in product samples.
Table 15. Duwamish source tracing: liquid product testing results (at end of report).
Table 16. Duwamish source tracing: solid product testing results (at end of report).
Table 17. BEHP detected in liquid product samples.
Table 18. Other phthalates detected in liquid product samples.

FIGURES

- Figure 1. Lower Duwamish study area.
Figure 2. Lower Duwamish Waterway: May 2003 outfall survey.
Figure 3. Diagonal Ave S CSO/SD drainage basin boundary.
Figure 4. Land use in areas discharging to Duwamish Diagonal cleanup site.
Figure 5. Joint business inspections completed in Diagonal Ave S CSO/SD basin as of June 2004.
Figure 6. King County key manhole sampling stations.
Figure 7. Diagonal Ave S CSO/SD sediment trap locations.
Figure 8. Diagonal Ave S CSO/SD onsite and right-of-way sediment sample locations.

APPENDICES

- Appendix A. Field form for joint business inspection program
Appendix B. Data base output
 Table B-1. Site summary by visit type report.
 Table B-2. Business inspections summary report.
 Table B-3. Corrective actions requested (grouped by basin and subbasin).
 Table B-4. Site history by basin.
 Table B-5. Corrective actions grouped by regulatory area.