APPENDIX G.OTHER INVESTIGATIONS—CITY OF SEATTLE SOURCE CONTROL

Preliminary Unvalidated Results from I-5 Storm Drain System in Slip 4 (Schmoyer 2016) and Figure of I-5 Storm Drain at Slip 4 (City of Seattle 2016a).

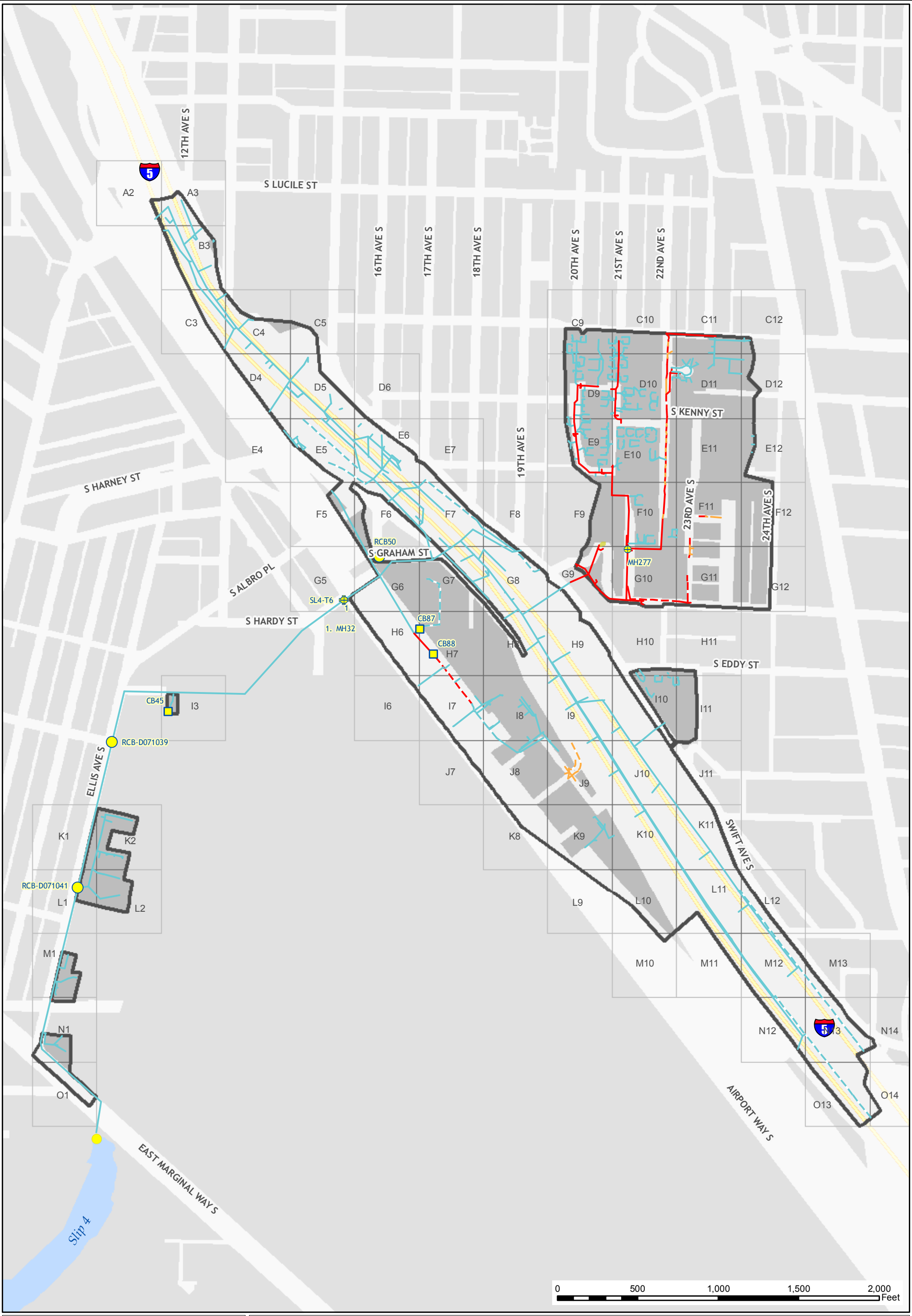
Preliminary Unvalidated Results from I-5 Storm Drain System in Slip 4

Chemical	SL4-T6-050916 5/9/2016
Hydrocarbons, mg/kg dw	
Diesel-range hydrocarbons	210
Motor oil-range	1,300
Conventionals, %	-
TOC	2.72
Coarse sand	-
Fine gravel	-
Fine sand	-
Fine/very fine gravel	-
Gravel	-
Medium sand	-
Very coarse sand	-
Very fine sand	-
Solids, total	63.96
Metals, mg/kg dw	
Arsenic	9
Copper	110
Lead	55
Zinc	**445**
Mercury	0.04
PCBs, ug/kg dw	
Aroclor 1016	< 20
Aroclor 1221	< 20
Aroclor 1232	< 20
Aroclor 1242	< 20
Aroclor 1248	< 29
Aroclor 1254	45
Aroclor 1260	35
Total PCB Aroclors	80
SVOC, ug/kg dw	
1,2,4-trichlorobenzene	**< 97**
1,2-dichlorobenzene	**< 97**
1,3-dichlorobenzene	< 97
1,4-dichlorobenzene	**< 97**
1-methylnaphthalene	< 97
2,2′-oxybis(1-Chloropropane)	< 97
2,4,5-trichlorophenol	< 490
2,4,6-trichlorophenol	< 490
2,4-dichlorophenol	< 490

Chemical	SL4-T6-050916 5/9/2016
2,4-dimethylphenol	**< 490**
2,4-dinitrophenol	< 970
2,4-dinitrotoluene	< 490
2,6-dinitrotoluene	< 490
2-chloronaphthalene	< 97
2-chlorophenol	< 97
2-methylnaphthalene	49
2-methylphenol	**< 97**
2-nitroaniline	< 490
2-nitrophenol	< 97
3,3′-dichlorobenzidine	< 490
3-nitroaniline	< 490
4,6-dinitro-2-methylphenol	< 970
4-bromophenyl phenyl ether	< 97
4-chloro-3-methylphenol	< 490
4-chloroaniline	< 490
4-chlorophenyl phenylether	< 97
4-methylphenol	**1,400**
4-nitroaniline	< 490
4-nitrophenol	< 490
Acenaphthene	< 97
Acenaphthylene	< 97
Anthracene	63
Benzo(a)anthracene	200
Benzo(a)pyrene	270
Benzo(g,h,i)perylene	300
Benzoic acid	**660**
Benzyl alcohol	**240**
bis(2-Chloroethoxy) methane	< 97
Bis-(2-Chloroethyl) ether	< 97
bis(2-Ethylhexyl)phthalate	**4,100**
Butylbenzylphthalate	340
Carbazole	100
Chrysene	440
Dibenzo(A,H)anthracene	73
Dibenzofuran	< 97
Diethylphthalate	< 97
Dimethylphthalate	< 97
Di-n-butylphthalate	53
Di-N-octylphthalate	360
Fluoranthene	680
Fluorene	58

Chemical	SL4-T6-050916 5/9/2016
Hexachlorobenzene	**<u>< 97</u>**
Hexachlorobutadiene	< 97
Hexachlorocyclopentadiene	< 490
Hexachloroethane	< 97
Indeno(1,2,3-cd)pyrene	180
Isophorone	< 97
Naphthalene	63
Nitrobenzene	< 97
N-nitroso-di-n-propylamine	< 97
N-nitrosodiphenylamine	< 97
Pentachlorophenol	**< 490**
Phenanthrene	420
Phenol	180
Pyrene	670
Total benzofluoranthenes	620

Bold text indicates a SCO exceedance.
<u>Underlined</u> text indicates a CSL exceedance.
CSL – cleanup screening level
dw – dry weight
PCB – polychlorinated biphenyl
SCO – sediment cleanup level
TOC – total organic carbon



I-5 SD at Slip 4

Map No. 62 - Source Tracing Samples

City of Seattle

Basin Boundary
Wetland
Seattle City Limits
Freeway/Highway

Storm Drains
MS4
Non-MS4
Unknown

Open Drainage
MS4
Non-MS4
Unknown
Stream

Outfalls
CSO/EOF/SD-SPU/KC
Channel/Ditch
CSO/SD - SPU/KC
EOF/SD - SPU/KC
SD - City
SD - Private
SD - KC
SD - Port
SD - Tukwila
SD - WSDOT/City

Source Tracing Samples
Private Onsite Catch Basin
Inline Grab
Outside Drainage System, i.e., soil, street dirt
Right-of-Way Catch Basin
Inline Sediment Trap

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