EPA Region 10 Laboratory **Analyses Required**

PRIORITY POLLUTANTS - ORGANICS

Project Name: Seattle Iron & Metals Project Code: TEC 263 A Account Code: AFEB3A

Matrix Codes *(circle one only)*

10 Water-Total
11 Water-Dissolved
40 Sediment/Soil
45 Semi-Solid/Sludge
46 Sediment for EP Toxicity
70 Tissue
80 Oil/Solvent
00 Other

	Sample Numbers																			Analy/Comp Init/Date
	85500501	85500502	85500503																	
GC/MS Organic Scans																				
68 Base/Neutrals/Acids B/N/A																				
62 Base/Neutrals Only B/N																				
51 Volatile Organics VOA																				
65 Acids Only Acid																				
Specific (GC/MS) Organics *List Below*																				
GC Organic Scans																				
71 Pesticide/PCB's Pest/PCB																				
74 PCB's Only PCB	X	X	X																	
54 Purgeable Halocarbons Purg																				
53 Trihalomethanes Trihal																				
73 Herbicides Herb																				
70 Chlorinated Hydrocarbons																				
70 Organophosphate Pesticides																				
Specific (GC) Organics *List Below*																				
Specific Organics ar Other Miscellaneous																				
67 PolyAromHydro (HPLC) PAH		X																		
40 Oil Identification Oil-Id																				
40 Phenolics (AAP) Phenol																				
40 Oil & Grease Oil & Greas																				
40 Flashpoint Flashpt																				

Save samples after analysis? **NONE, SOME** or **ALL.** *(If SOME, circle sample numbers.)*

Special detection limits and comments:

Run Chlorinated Di Benzo-furans on 85500502.

Also Run: Cyanide and Iso-Cyanates on 85500502.

D R Targaine
Project Officer Signature

12/10/85
Date

EPA X-91 **Project Officer Copy**

Sample volumes and containers required for certain analyses are shown below. This information is intended as a guide only. It is recommended that the Laboratory be contacted when determining the proper sample containers.

Size and Type of Container	Parameter and Matrix
1 gallon and ½ gallon glass	Base/Neutral/Acid/Pesticides - Water
8 ounce glass	Base/Neutral/Acid/Pesticides - Sediment
2 40 ml glass vials	Volatile Organics - Water
8 ounce glass	Volatile Organics - Sediment
16 or 40 ml glass vial	PCB–Oil
1/2 gallon glass	PCB - Water
8 ounce glass	PCB - Sediment
1/2 gallon glass	Herbicides - Water
8 ounce glass	Herbicides - Sediment
8 ounce glass	Oil & Grease - Sediment
1/2 gallon glass	Oil & Grease - Water

GC/MS Analyses

Organics - Base/Neutral Extractables
Workgroup(s) 62 or 68

Acenaphthene
Benzidine
Benzene, 1,2,4-trichloro-
Benzene, hexachloro-
Ethane, hexachloro-
Ether, bis(2-chloroethyl)
Napthalene, 2-chloro-
Benzene, 1,2-dichloro-
Benzene, 1,3-dichloro-
Benzene, 1,4-dichloro-
Benzidine, 3,3'-dichloro
Toluene, 2,4-dinitro-
Toluene, 2,6-dinitro-
Hydrazine, 1,2-diphenyl-
Fluoranthene
Ether,4-chlrphnyl phenyl
Ether,4-bromphnyl phenyl
Ether,bis(2-chlrisoprpl)
Methane,bis(2-chlrethox)
Butadiene, hexachloro-
Cyclopentadiene,hexachlr
Isophorone
Naphthalene
Benzene, nitro-
Nitrosamine, dimethyl-
Nitrosamine, diphenyl-
Nitrosamine, di-n-propyl
Phthlate,bis(2-ethlhexl)
Phthalate,n-butyl benzyl
Phthalate, di-n-butyl-
Phthalate, di-n-octyl
Phthalate, diethyl-
Phthalate, dimethyl
Anthracene, benzo(a)-
Pyrene, benzo(a)-
Fluoranthene benzo(b)
Fluoranthene, benzo(k)-
Chrysene
Acenaphthylene
Anthracene
Perylene, benzo(g,h,i)-
Fluorene
Phenanthrene
Anthracene, dibenzo(a,h)
Pyrene,indeno(1,2,3-c,d)
Pyrene
TCDD

Organics - Volatile
Workgroup 51

Acrolein
Acrylonitrile
Benzene
Carbon Tetrachloride
Chlorobenzene
1,2-Dichloroethane
1,1,1-Trichloroethane
1,1-Dichloroethane
1,1,2-Trichloroethane
1,1,2,2-Tetrachloroethane
Chloroethane
2-Chloroethylvinyl ether
Chloroform
1,1-Dichloroethylene
1,2-trans-Dichloroethylene
1,2-Dichloropropane
cis-1,3-dichloropropylene
trans-1,3-dichloropropylene
Ethylbenzene
Methane, dichloro
Methane, chloro
Methane, bromo-
Methane, tribromo-
Methane, dichlorobromo-
Chlorodibromomethane
Tetrachloroethylene
Toluene
Trichloroethylene
Vinyl chloride
Acetone
2-Butanone
Carbon disulfide
2-Hexanone
4-Methyl 2-pentanone
Styrene
Vinyl acetate
o-Xylene
Total Xylenes

Organics - Acid Extractables
Workgroup(s) 65 or 68

Phenol, 2,4,6-trichloro-
M-cresol, p-chloro-
Phenol, 2-chloro-
Phenol, 2,4-dichloro-
Phenol, 2,4-dimethyl-
Phenol, 2-nitro-
Phenol, 4-nitro-
Phenol, 2,4-dinitro-
O-cresol, 4,6-dinitro-
Phenol, pentachloro-
Phenol
Benzoic acid
Phenol,2-methyl-
Phenol,4-methyl-
Phenol,245-trichloro-

GC Analyses

Trihalomethanes
Workgroup 53

Chloroform
Dichlorobromomethane
Chlorodibromomethane
Bromoform

Purgeable Halocarbons
Workgroup 54

Chloroform
Dichlorobromomethane
Chlorodibromomethane
Bromoform
Carbon tetrachloride
Chlorobenzene
1,1-Dichloroethane
1,2-Dichloroethane
1,1-Dichloroethene
1,2-(trans)-Dichloroethene
1,2-Dichloropropane
Methylene chloride
Tetrachloroethene
1,1,1-Trichloroethane
1,1,2-Trichloroethane
Trichloroethene

Polycyclic Aromatic Hydrocarbons
Workgroup 67

Acenaphthene
Acenaphthylene
Anthracene
Benzo(a)anthracene
Benzo(a)pyrene
Benzo(b)fluoranthene
Benzo(ghi)perylene
Benzo(k)fluoranthene
Chrysene
Dibenzo(a,h)anthracene
Fluoranthene
Fluorene
Indeno(1,2,3-cd)pyrene
Naphthalene
Phenanthrene
Pyrene

Organophosphorous Pesticides
Workgroup 70

Mevinphos
Phorate
Dimethoate
Diazinon
Methyl parathion
Ethyl parathion
Malathion
Ethion
Carbophenothion
Azinphos (methyl or ethyl)
Dichlorvos
Dioxathion
Ronnel
Fenthion
Phosphamidon
Folex
DEF
Phencapton
Monocrotophos
EPN
Imidan
Coumaphos
Disulfoton

Chlorinated Hydrocarbons

95501 1,2-Dichlorobenzene
87616 1,2,3-Trichlorobenzene
95943 1,2,4,5-Tetrachlorobenzene
608935 Pentachlorobenzene
118741 Hexachlorobenzene

PCB Analysis only
Workgroup 74

PCB - 1016
PCB - 1221
PCB - 1232
PCB - 1242
PCB - 1248
PCB - 1254
PCB - 1260

Pesticide/PCB Analysis
Workgroup 71

Aldrin
Chlordane
Dieldrin
DDT, 4,4'-
DDE, 4,4'-
DDD, 4,4'-
Endosulfan, alpha-
Endosulfan, beta-
Endosulfan sulfate
Endrin
Endrin aldehyde
Heptachlor
Heptachlor epoxide
BHC, alpha-
BHC, beta-
BHC, gamma-
BHC, delta-
Toxaphene
PCB - 1016
PCB - 1221
PCB - 1232
PCB - 1242
PCB - 1248
PCB - 1254
PCB - 1260

Organics - Herbicides
Workgroup 73

2,4-D
2,4-DB
2,4,5-T
2,4,5-TB
Silvex (2,4,5-TP)
MCPA
MCPP
MCPB
Pentachlorophenol
Tetrachlorophenol
Dicamba
Bromoxynil
Ioxynil
Dinoseb
Picloram

Note: *To obtain a complete Priority Pollutant scan, request* **WG 68, 51, 71, and 40** *on this sheet and appropriate metals on the metals analysis request form.*