Portland Harbor FS Alternatives

Presentation to the
TCT and DEQ
July 8, 2015

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Presentation Objectives

- Show changes in Technology Assignment from June TCT.
- Present differences in Technology Assignment between LWG draft FS and EPA revised FS
- Show preliminary comparative analysis table.

Summary of Total Acres Assigned to Each Technology

Alternative	Summary													
	Total Cap		Total Dredge		Total Dredge/ Cap		Total EMNR		Total In-Situ Treatment		Total Acres Constructed		MNR	
	Old	New	Old	New	Old	New	Old	New	Old	New	Old	New	Old	New
	Acres													
B	26	3.9	156	83	14	3.4	125	103	48	6.8	369	200	2081	2250
C	35	4.8	165	104	17	3.9	120	101	42	5.1	379	218	2071	2232
D	49	6.9	197	161	26	6.4	106	88	32	3.3	409	265	2041	2185
E	73	10	240	249	40	10	81	60	3	0.0	438	329	2012	2121
F	131	18	382	479	60	17	52	24	1	0.0	626	538	1824	1913
G	211	22	538	741	82	18	37	15	1	0.0	869	795	1581	1655

Show figure if complete

LWG Draft vs. EPA Revised Focus COCs

	LWG						EPA
COC	**B**	**C**	**D**	**E**	**F**	**G**	**All**
PCBs	X	X	X	X	X	X	X
PAHs *	X	X	X	X	X	X	X
DDE	X	X	X				
DDx				X	X	X	X
PeCDF				X	X	X	X
PeCDD							X
TCDD							X
Benthic Tox	X	X	X	X	X	X	
PTW							X

*LWG excluded PAHs in Nav Channel

LWG Draft vs. EPA Revised Remedial Action Levels

COC		B	C	D	E	F	G
PCBs	LWG	1,000	750	500	200	75	50
	EPA	1,000	750	500	200	75	50
cPAHs	LWG	20,000	15,000	8,000	4,000	1,500	600
Total PAHs	EPA	170,000	130,000	69,000	35,000	13,000	5,400
DDE	LWG	1,000	1,000	200	50	20	10
DDD	LWG				100	50	15
DDT	LWG				150	60	20
DDx	EPA	650	550	450	300	160	40
PeCDF	LWG				0.02	0.01	0.005
	EPA	1	1	1	0.02	0.01	0.009
PeCDD	EPA	0.003	0.002	0.0008	0.0008	0.0008	0.0008
TCDD	EPA	0.002	0.002	0.002	0.0006	0.0006	0.0006
Benthic Tox	LWG	MQ=0.7*	MQ=0.7	MQ=0.7	MQ=0.7	MQ=0.7	MQ=0.7

LWG Draft FS vs. EPA Revised FS

Alternative	Total Dredge Volume Removed[1]	Dredge Areas	Dredge/Cap Areas	Engineered Cap Areas	In-Situ Treatment Areas	Ex-Situ Treatment Volume[2]	EMNR	MNR[3]	Use of CADs or CDFs	Years to Construct
	(Cubic Yards)	(Acres)	(Acres)	(Acres)	(Acres)	(Cubic Yards)	(Acres)	(Acres)		
LWG B-i	198,000 to 293,000	23	0	7	19	--	75	--	None	2
LWG B-r	541,000 to 783,000	42	0	13	0	--	41	--	CAD & CDF	6
EPA B	669,000 to 892,000	83	3	4	7	321,120	103	2,250	None	2
LWG C-i	314,000 to 459,000	34	0	13	29	--	40	--	CAD & CDF	3
LWG C-r	777,000 to 1,127,000	63	0	10	0	--	73	--	CDF	7
EPA C	843,000 to 1,124,000	104	4	5	5	353,320	101	2,232	None	2
LWG D-i	387,000 to 565,000	43	0	15	34	--	37	--	CAD & CDF	3
LWG D-r	914,000 to 1,321,000	78	0	13	0	--	68	--	CDF	8
EPA D	1,325,000 to 1,766,000	161	6	7	3	395,060	88	2,185	None	3
LWG E-i	936,000 to 1,362,000	91	0	25	58	--	15	--	CDF	7
LWG E-r	1,775,000 to 2,596,000	145	0	21	0	--	15	--	CDF	12
EPA E	2,325,000 to 3,100,000	249	10	10	0	431,560	60	2,121	CDF Option	5
LWG F-i	2,129,000 to 3,151,000	176	0	49	117	--	3	--	CDF	15
LWG F-r	4,196,000 to 6,182,000	304	0	38	0	--	3	--	CDF	28
EPA F	5,336,000 to 7,115,000	479	17	18	0	495,830	24	1,913	CDF Option	12
LWG G-i	Not Developed	--	--	--	--	--	--	--	--	--
LWG G-r	Not Developed	--	--	--	--	--	--	--	--	--
EPA G	8,791,000 to 11,722,000	741	18	22	0	518,010	15	1,655	CDF Option	19