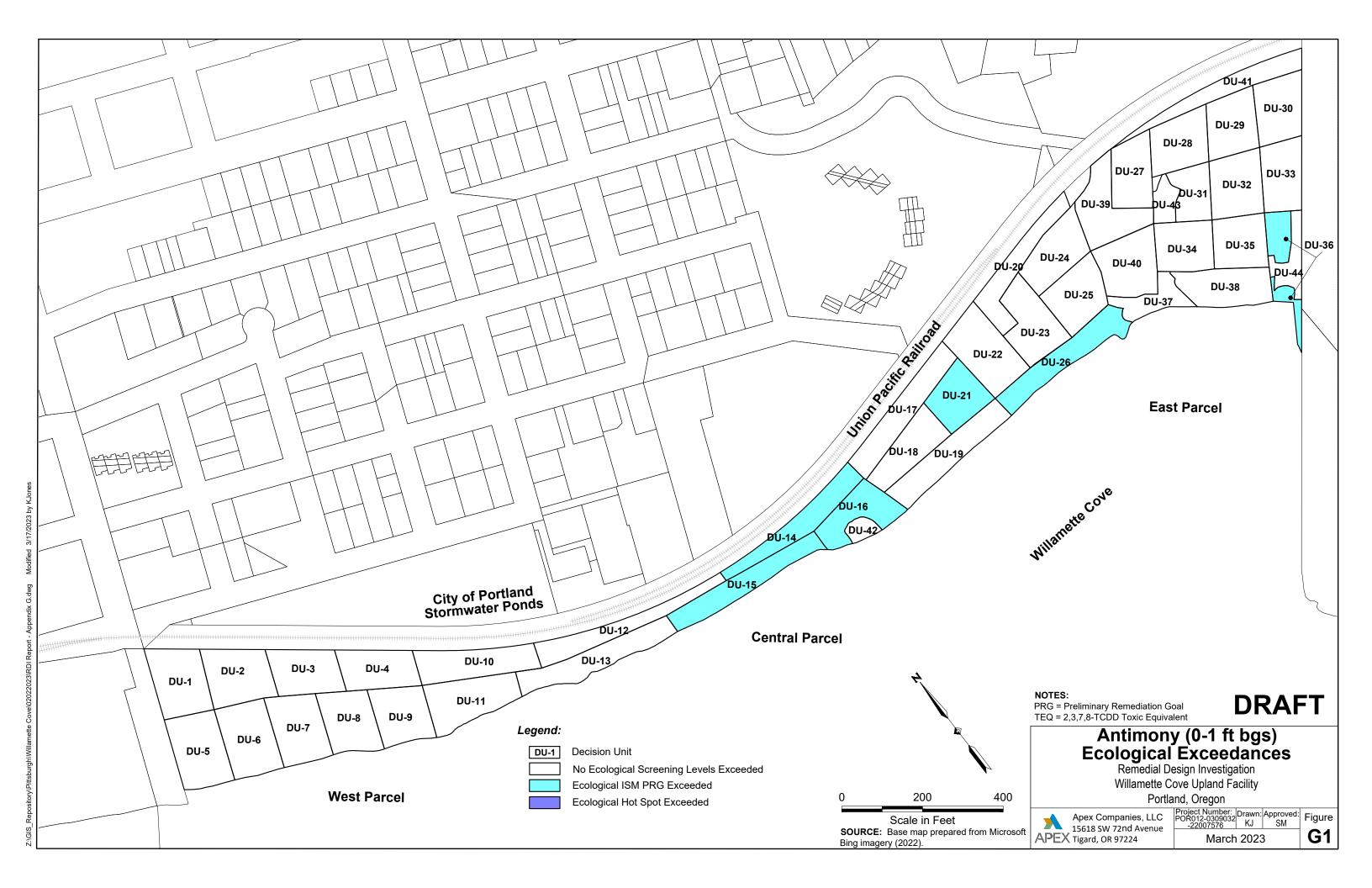
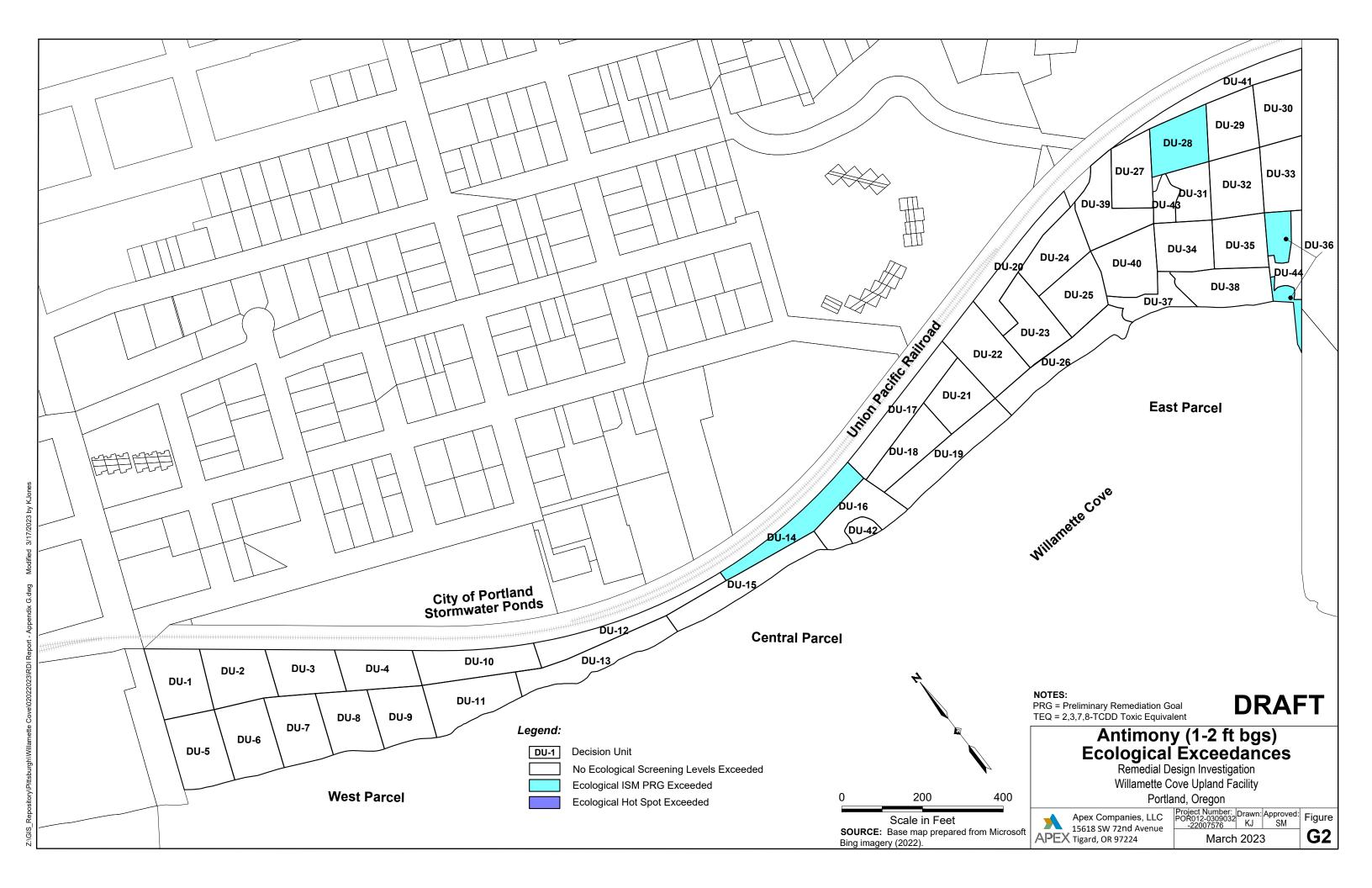
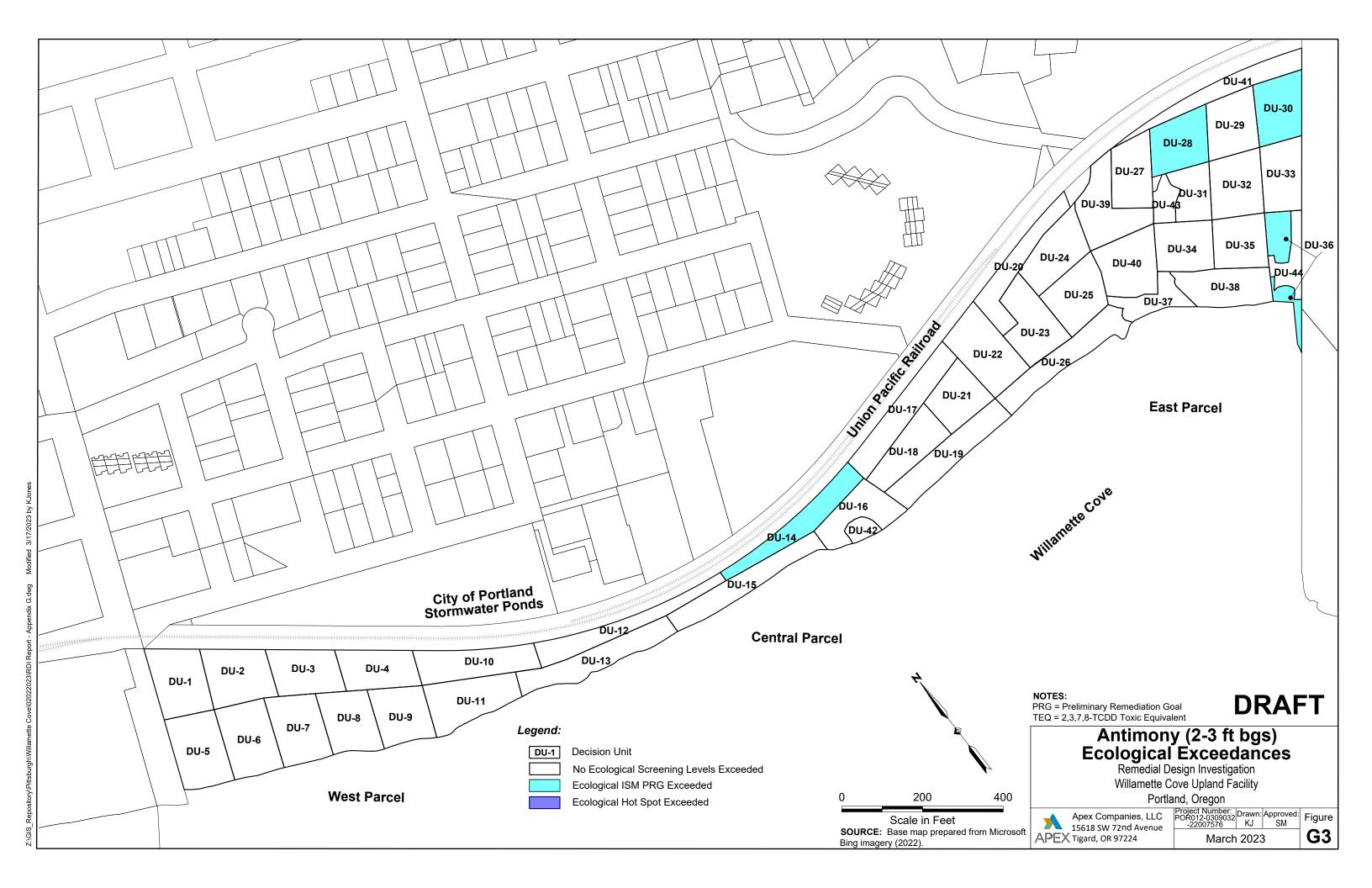
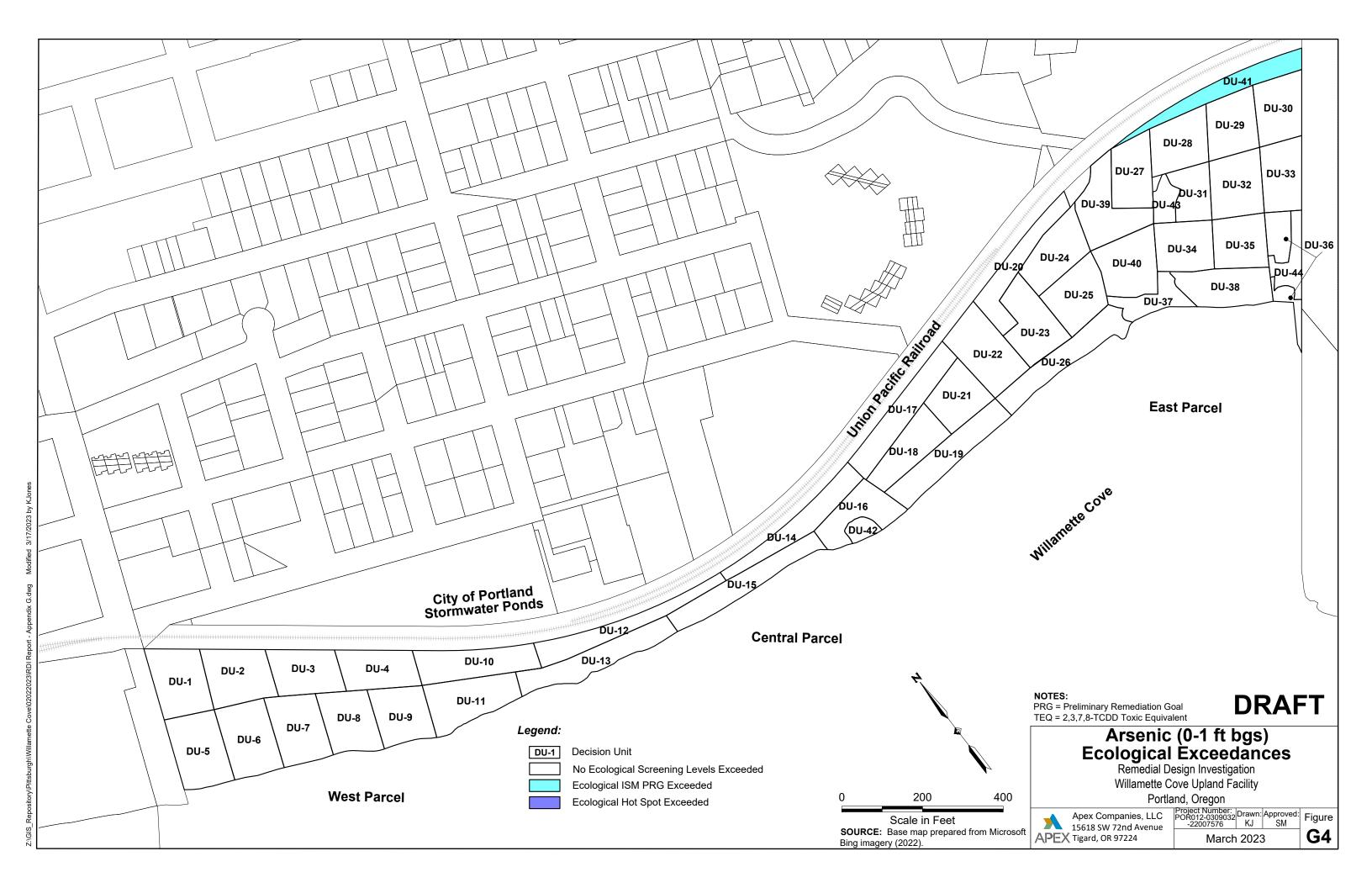


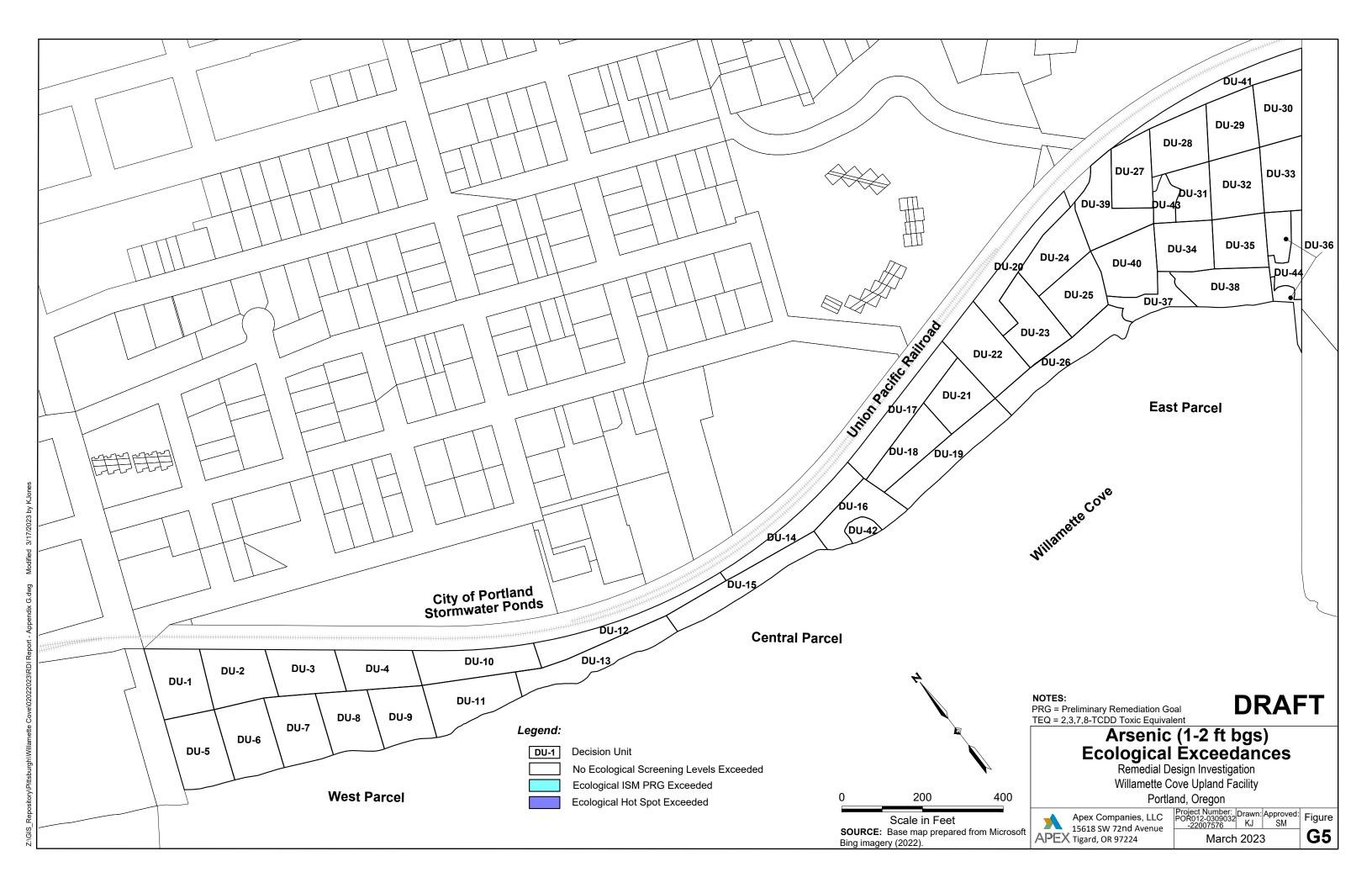
Risk Screening Figures

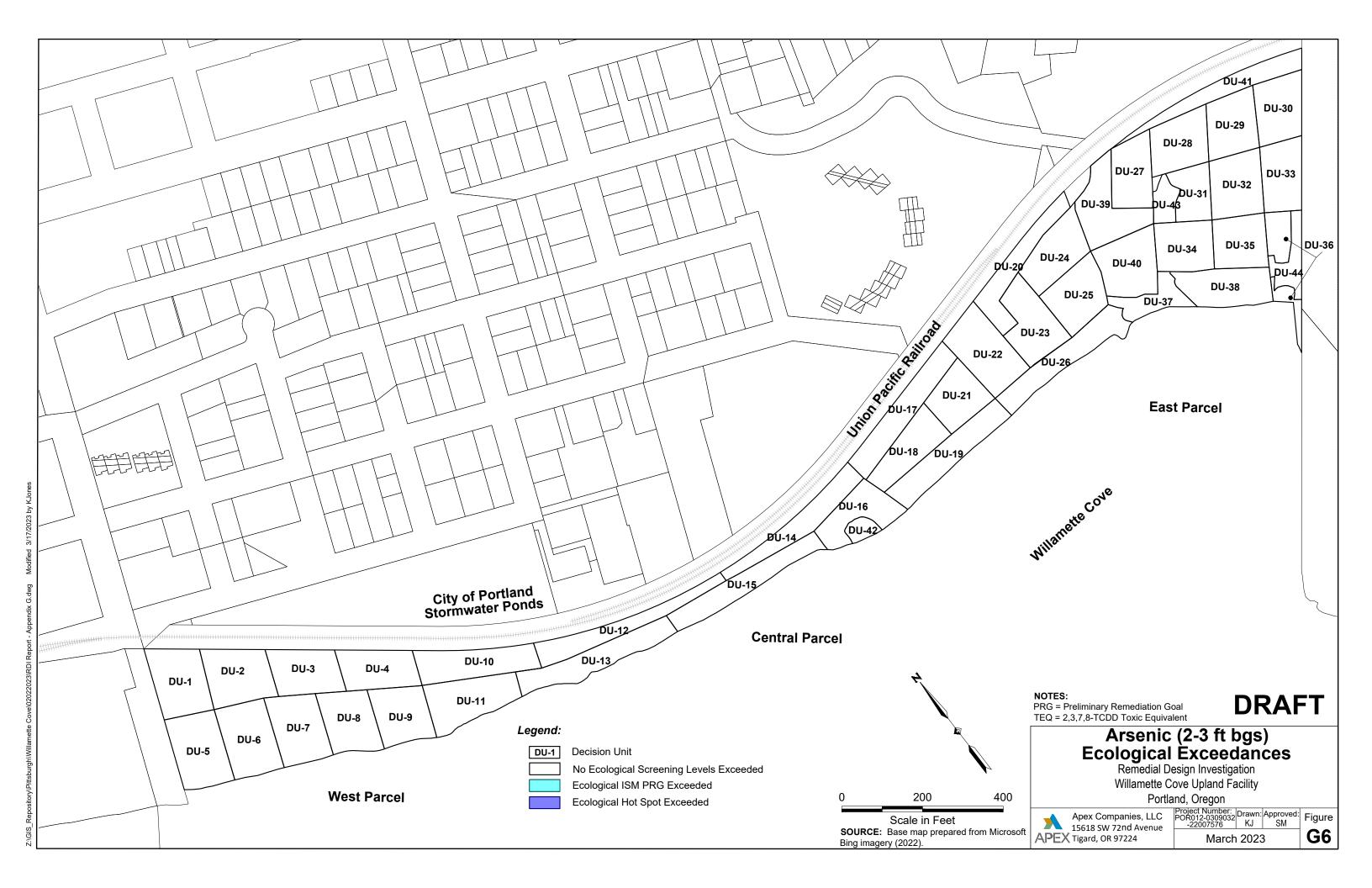


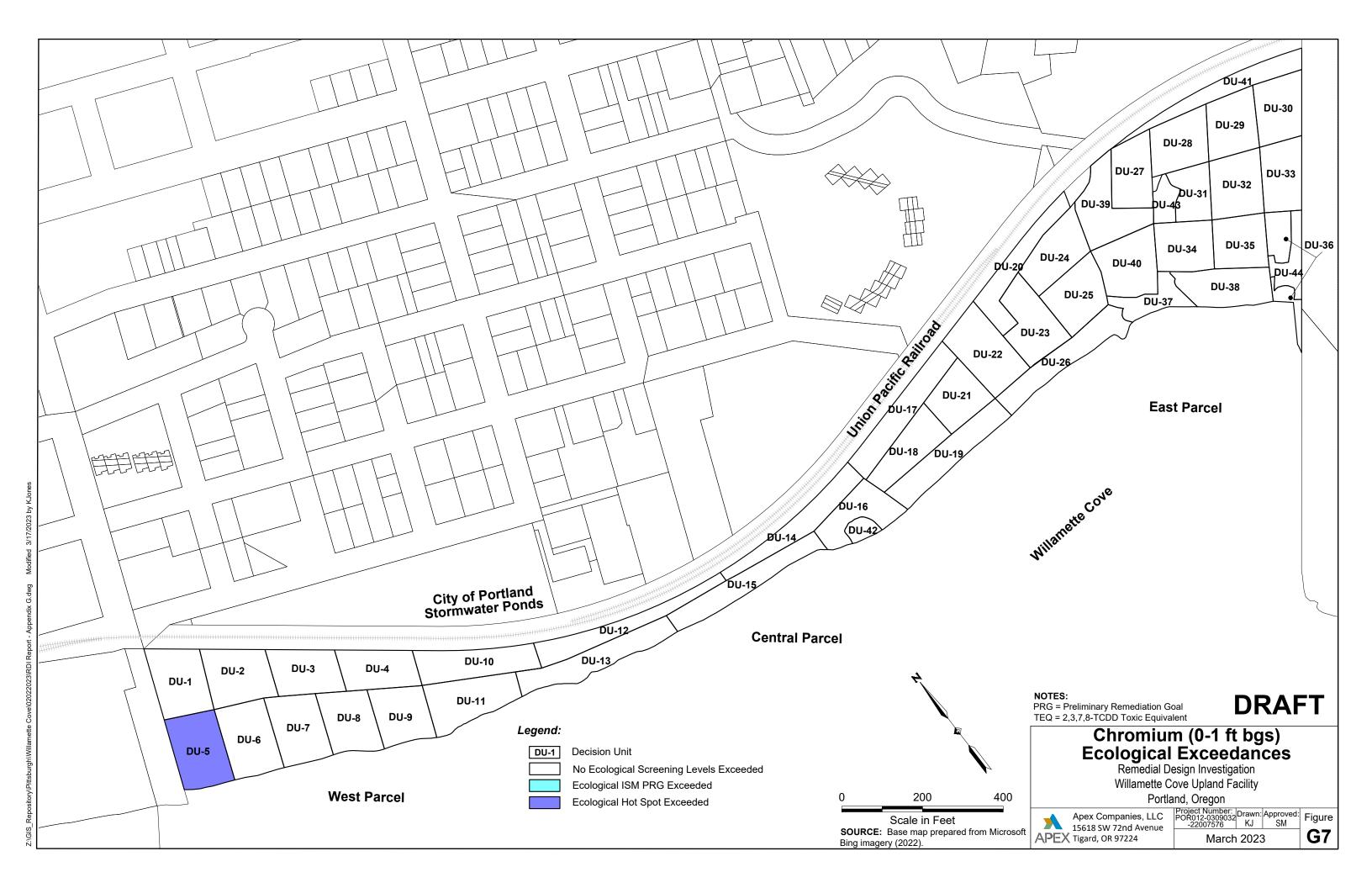


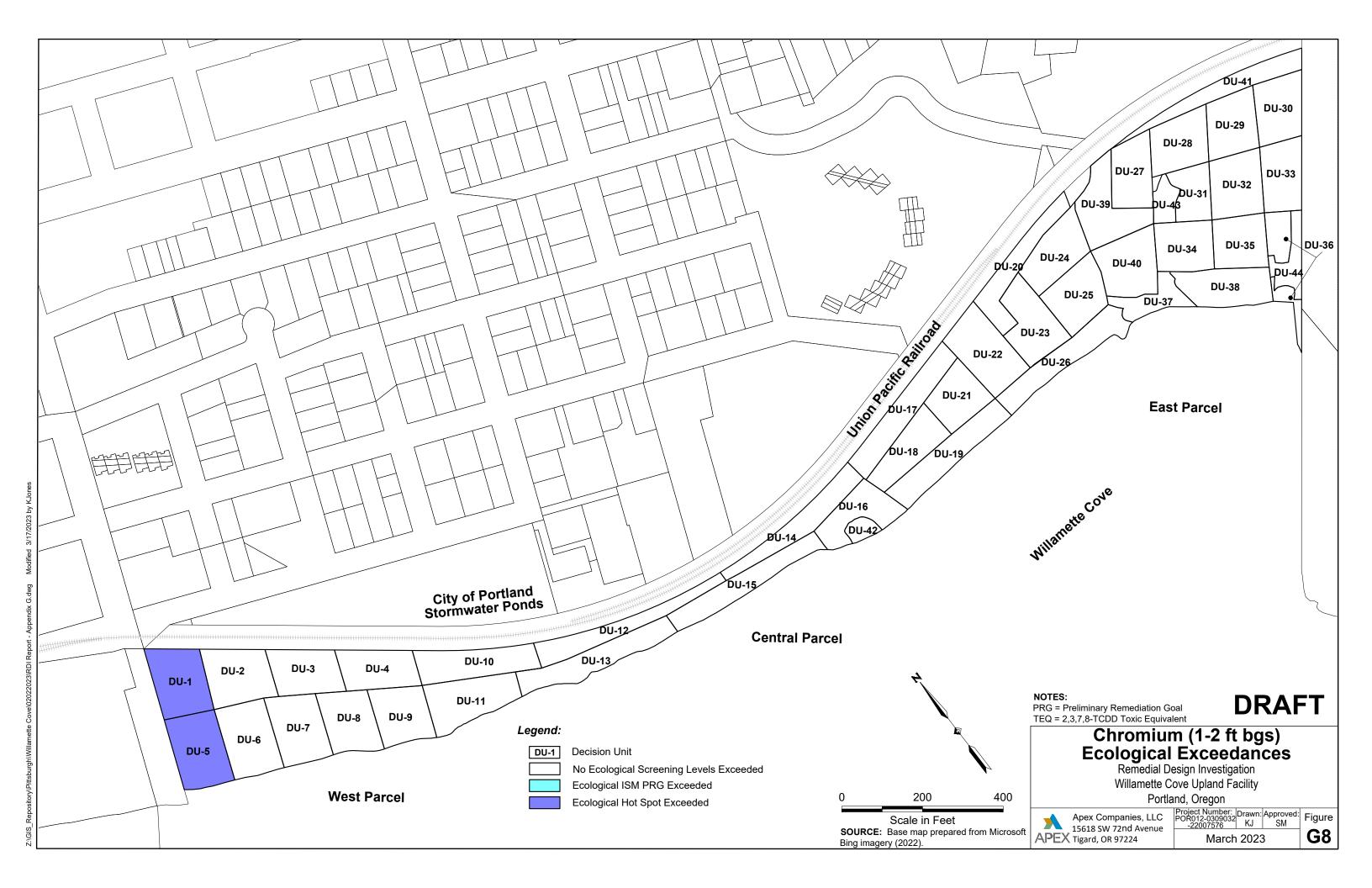


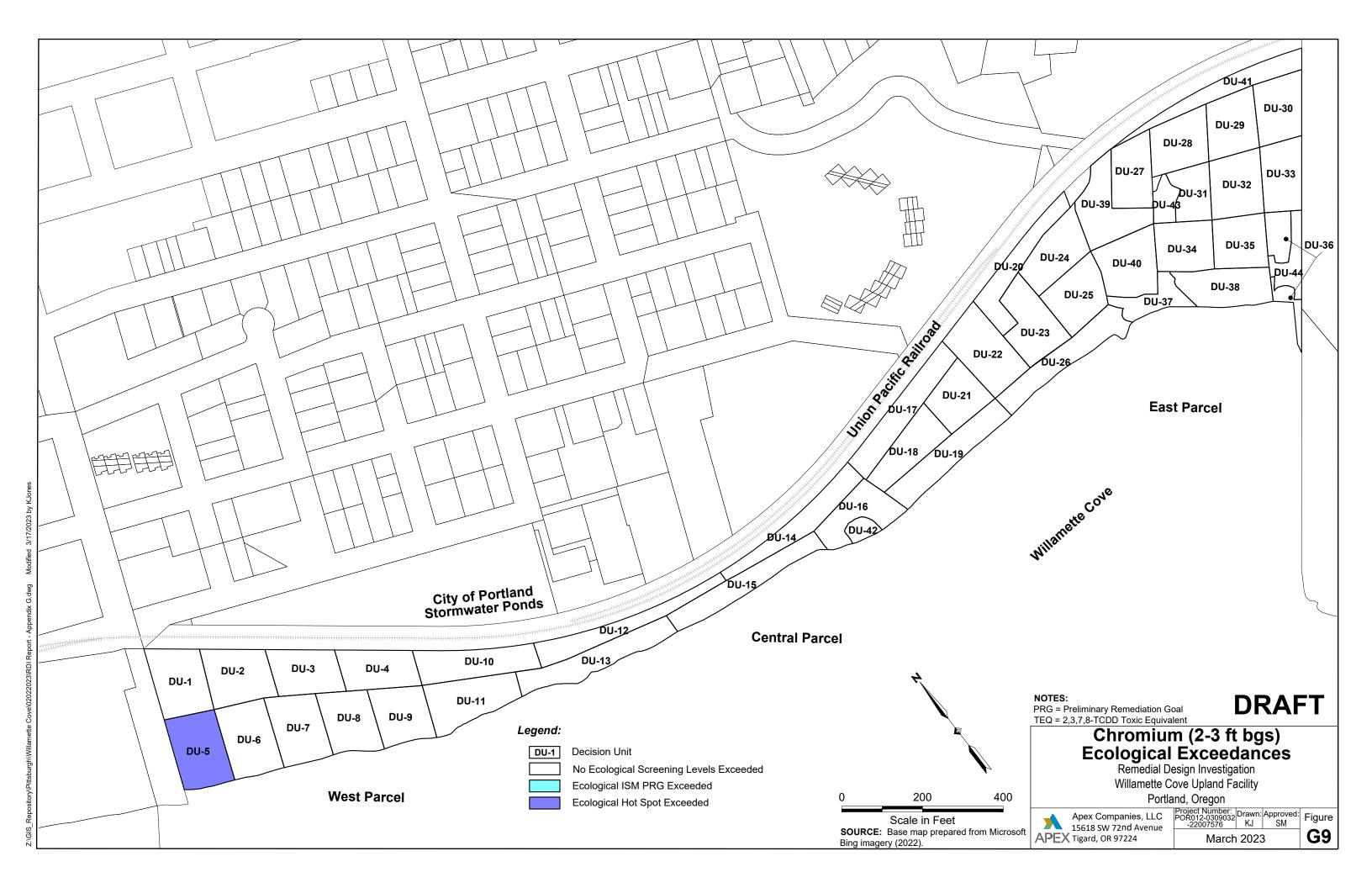


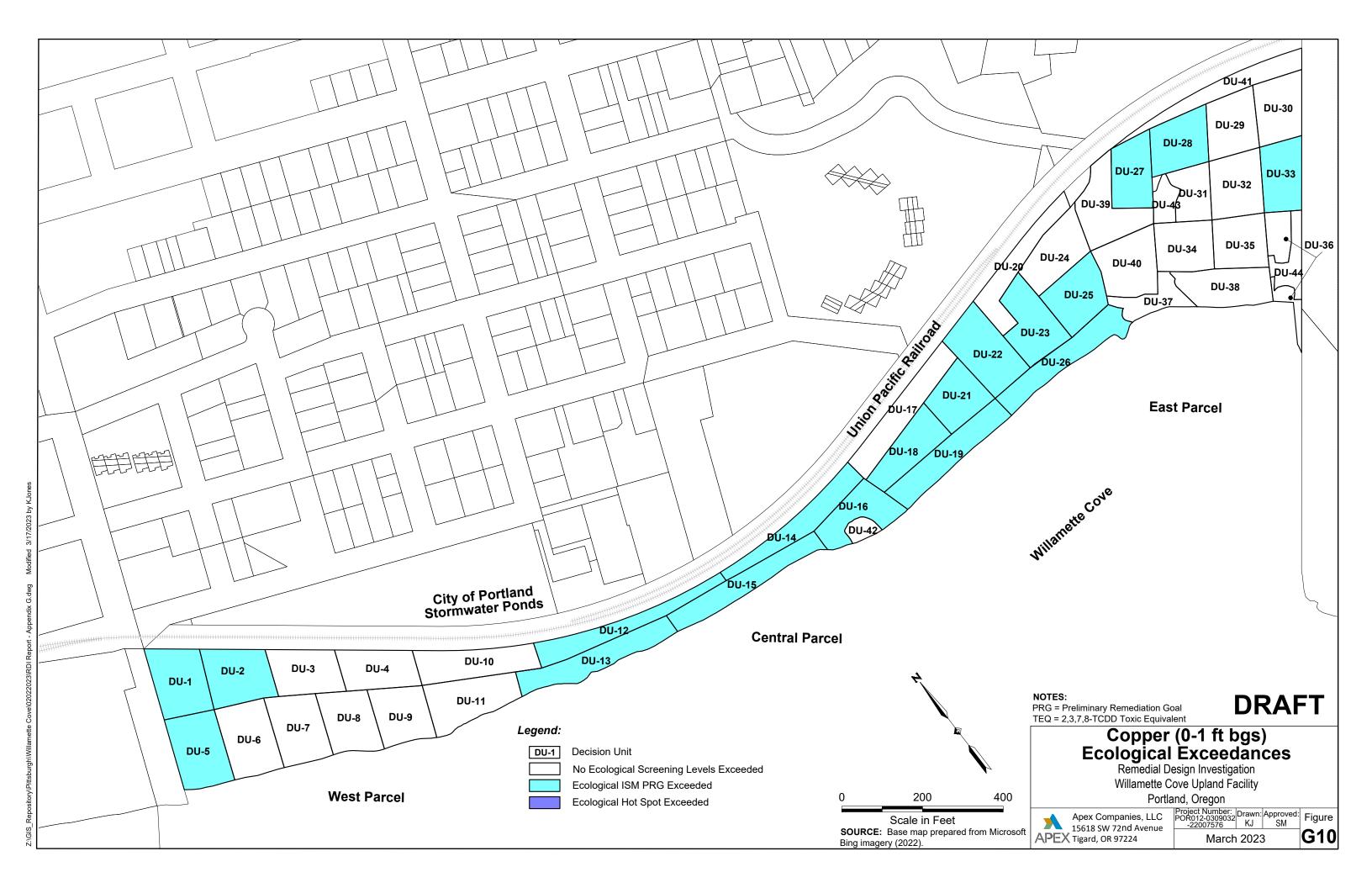


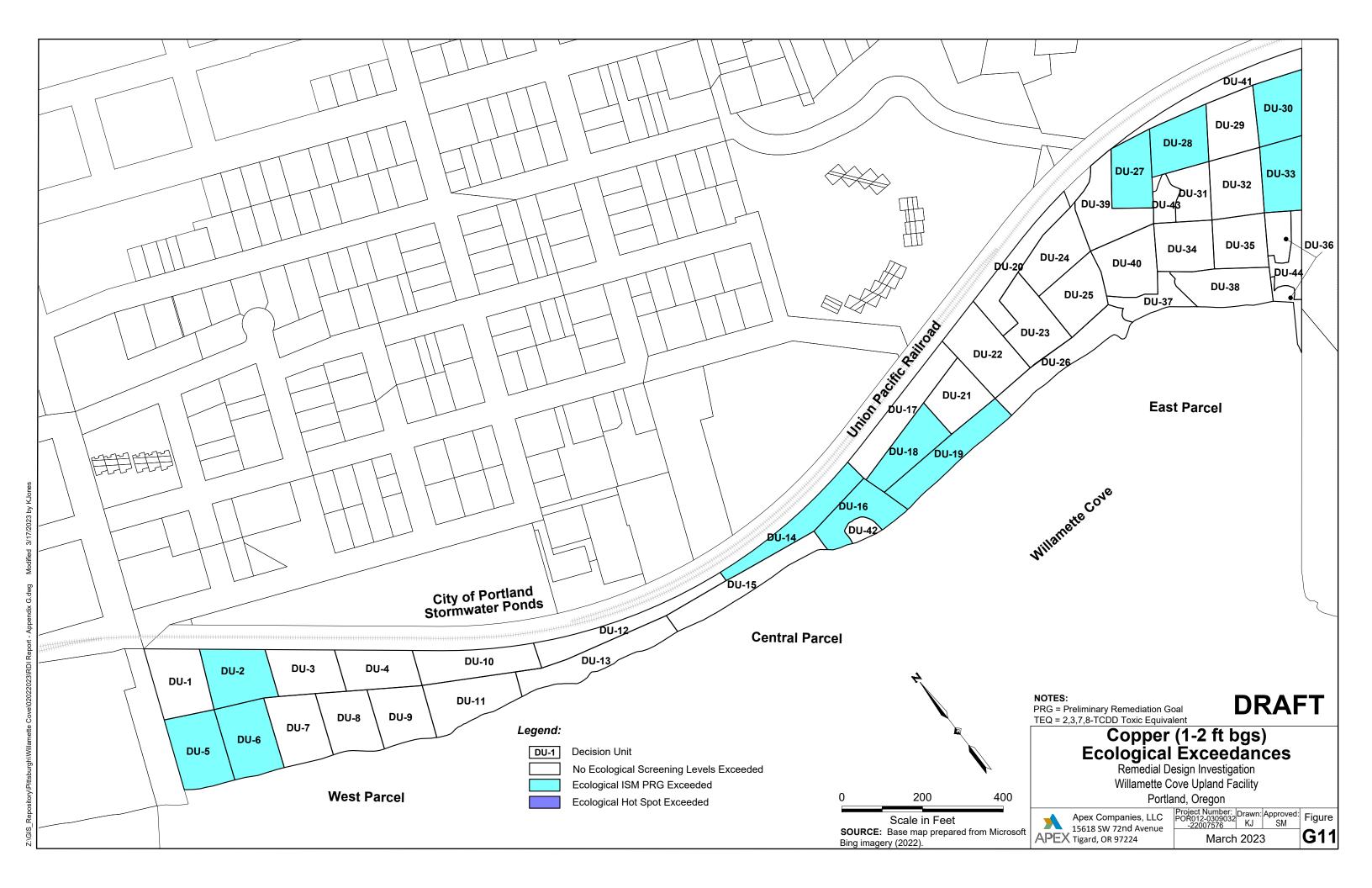


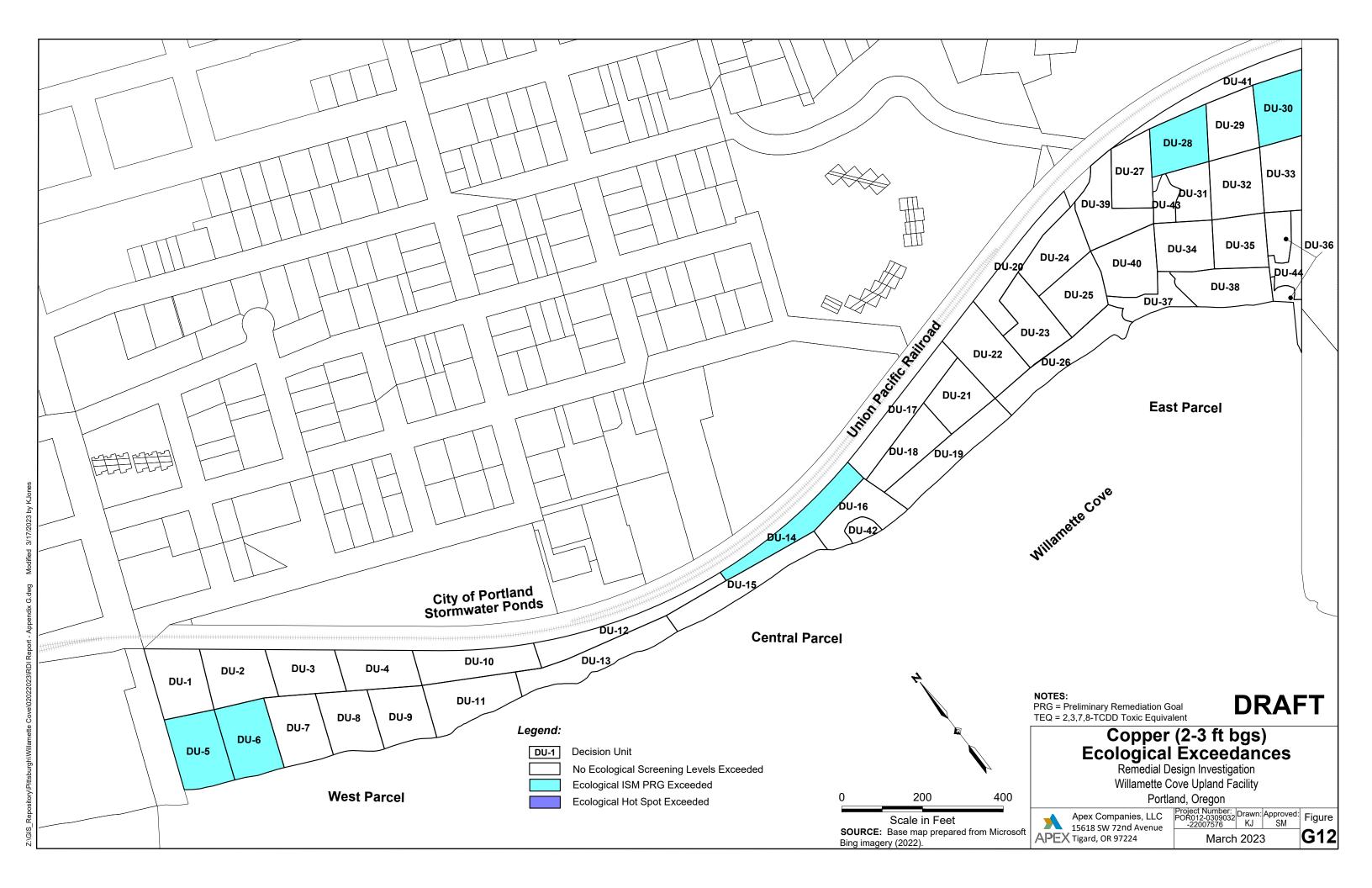


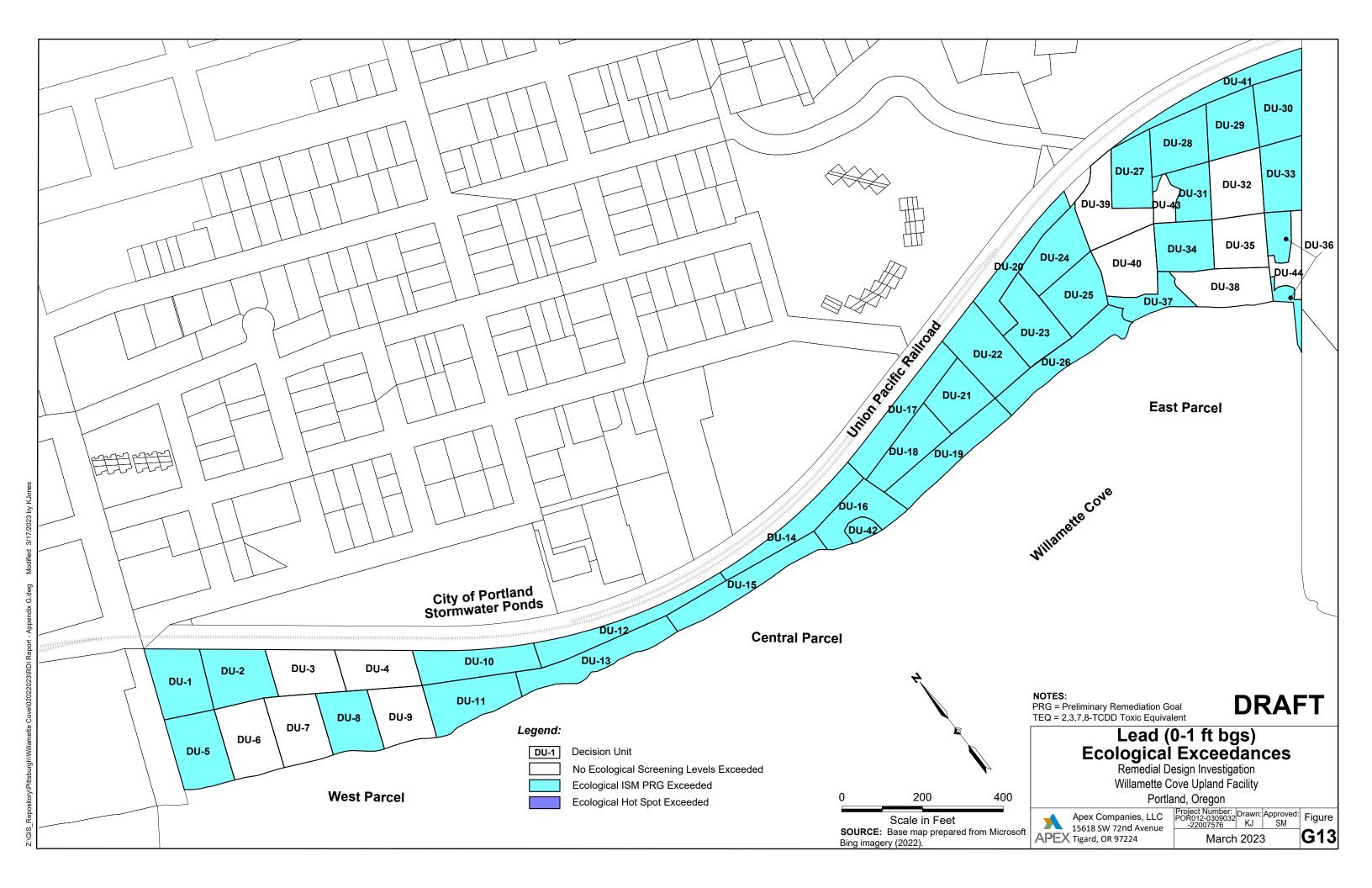


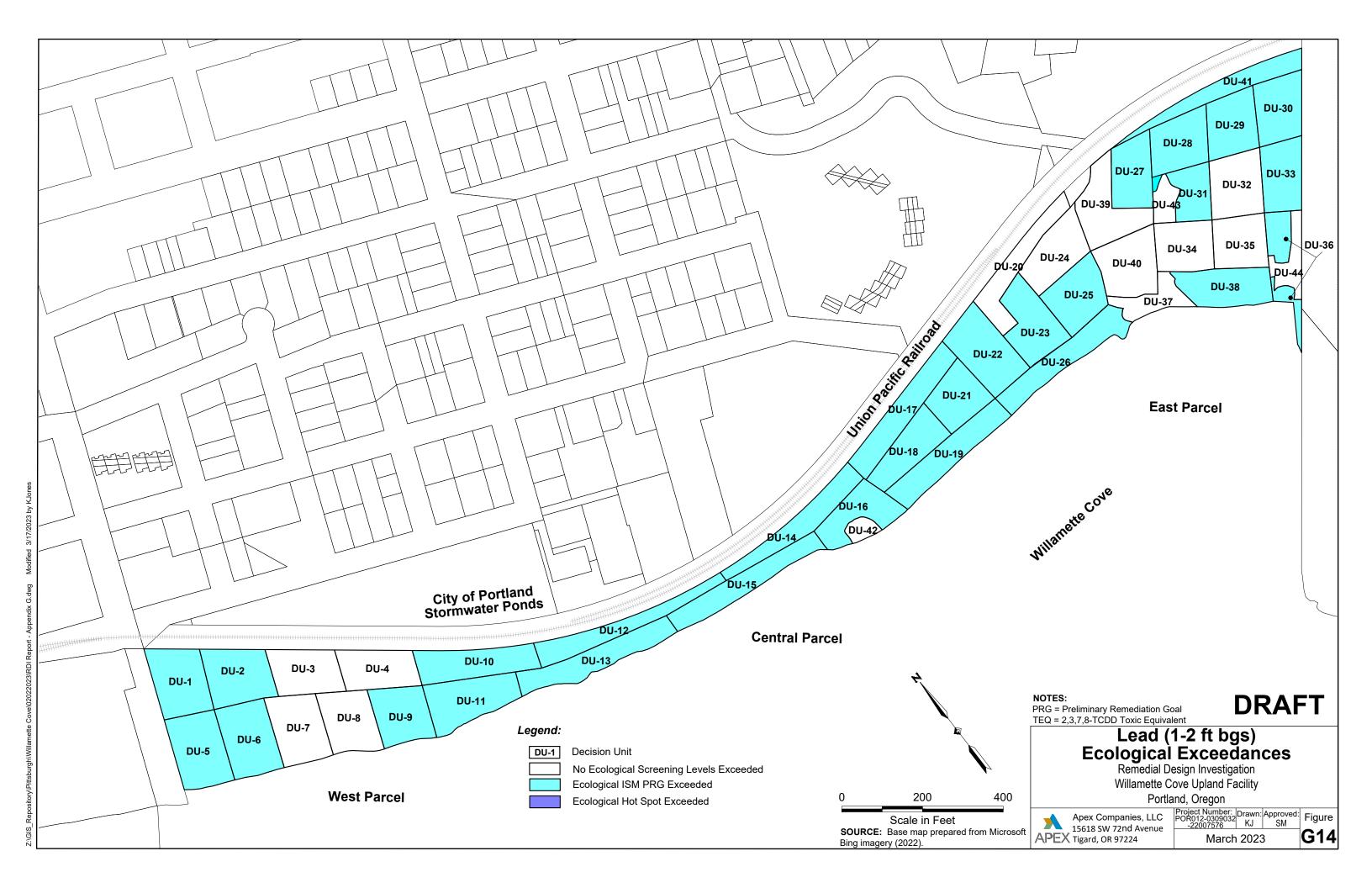


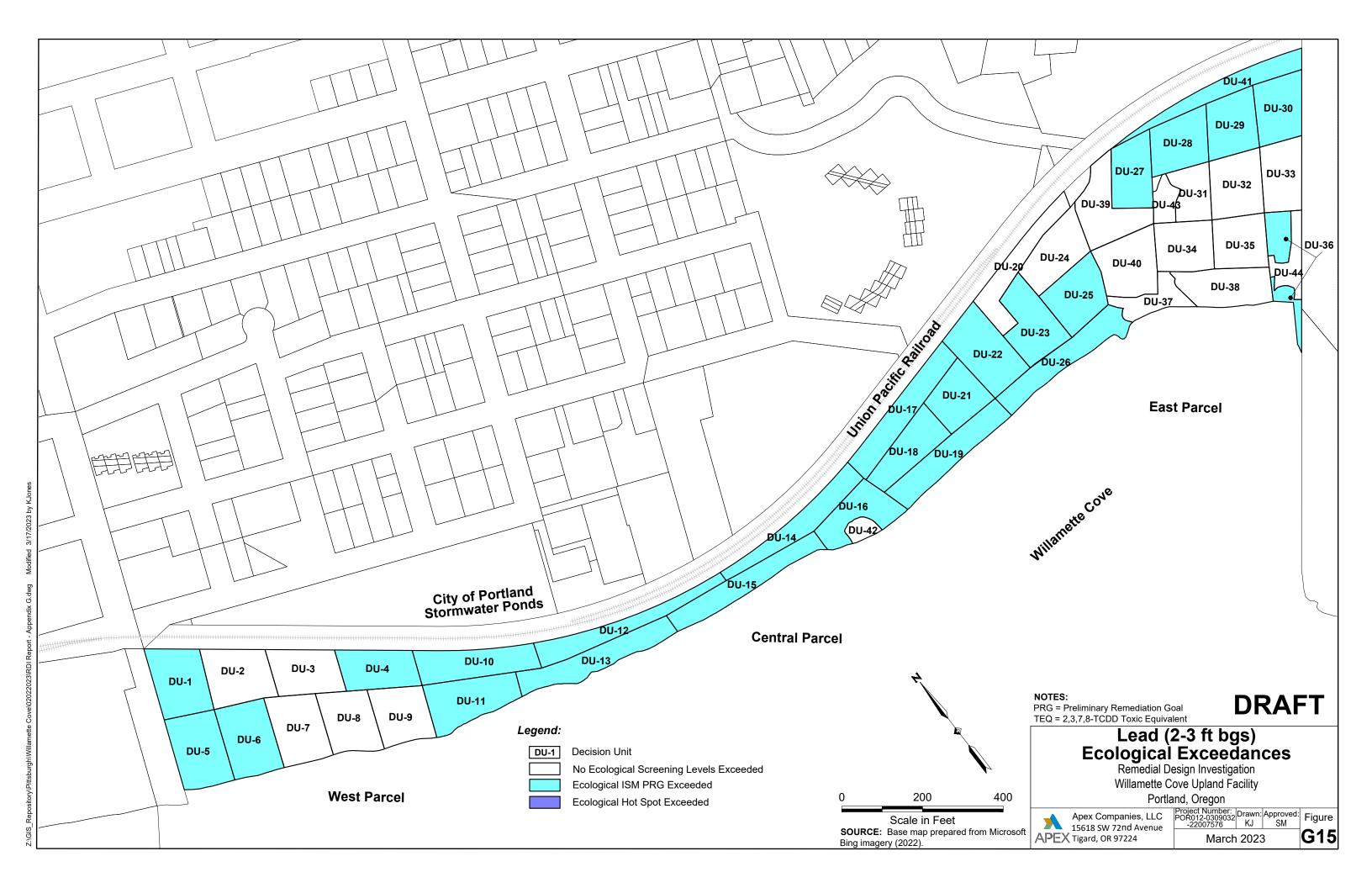


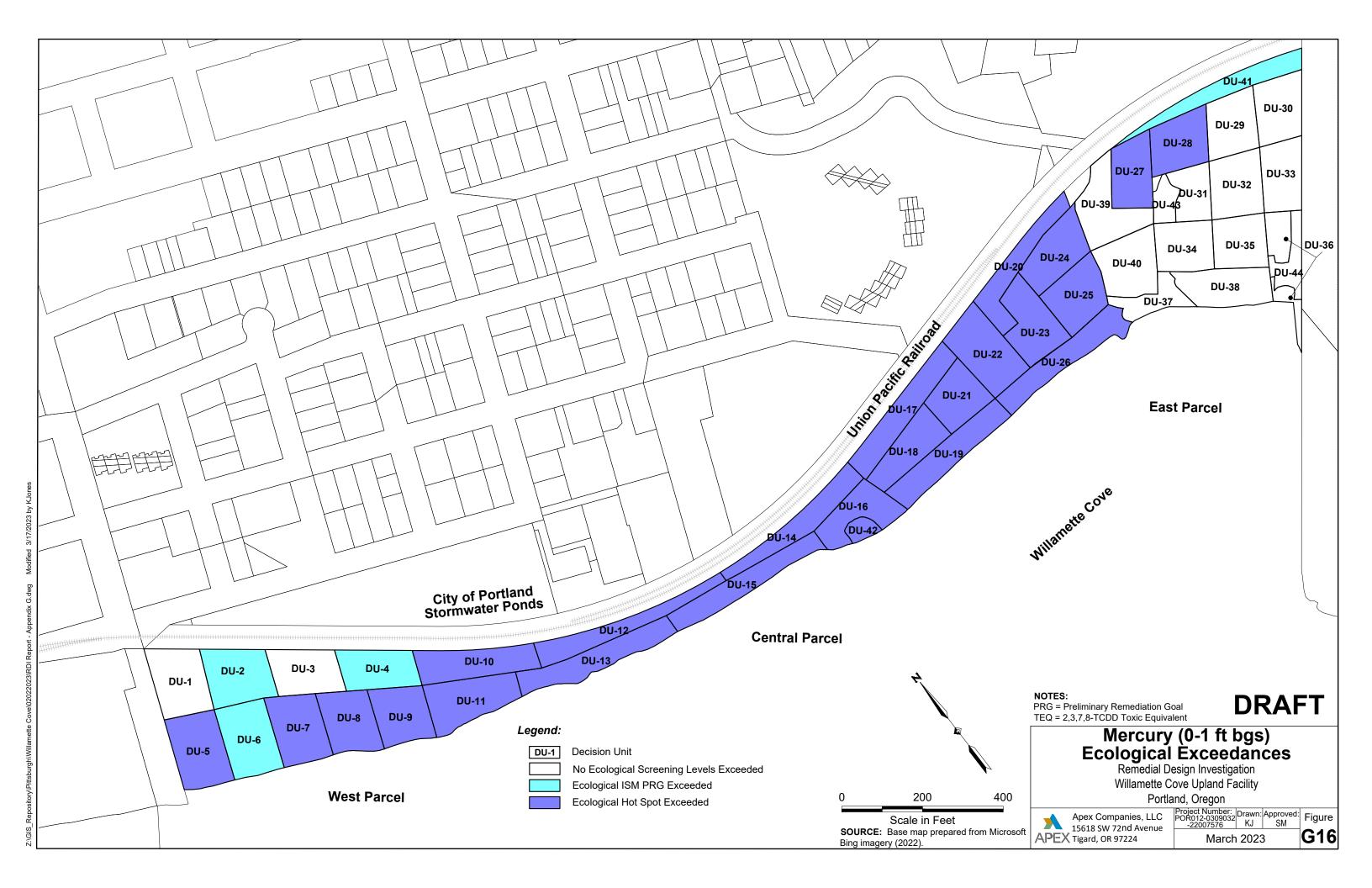


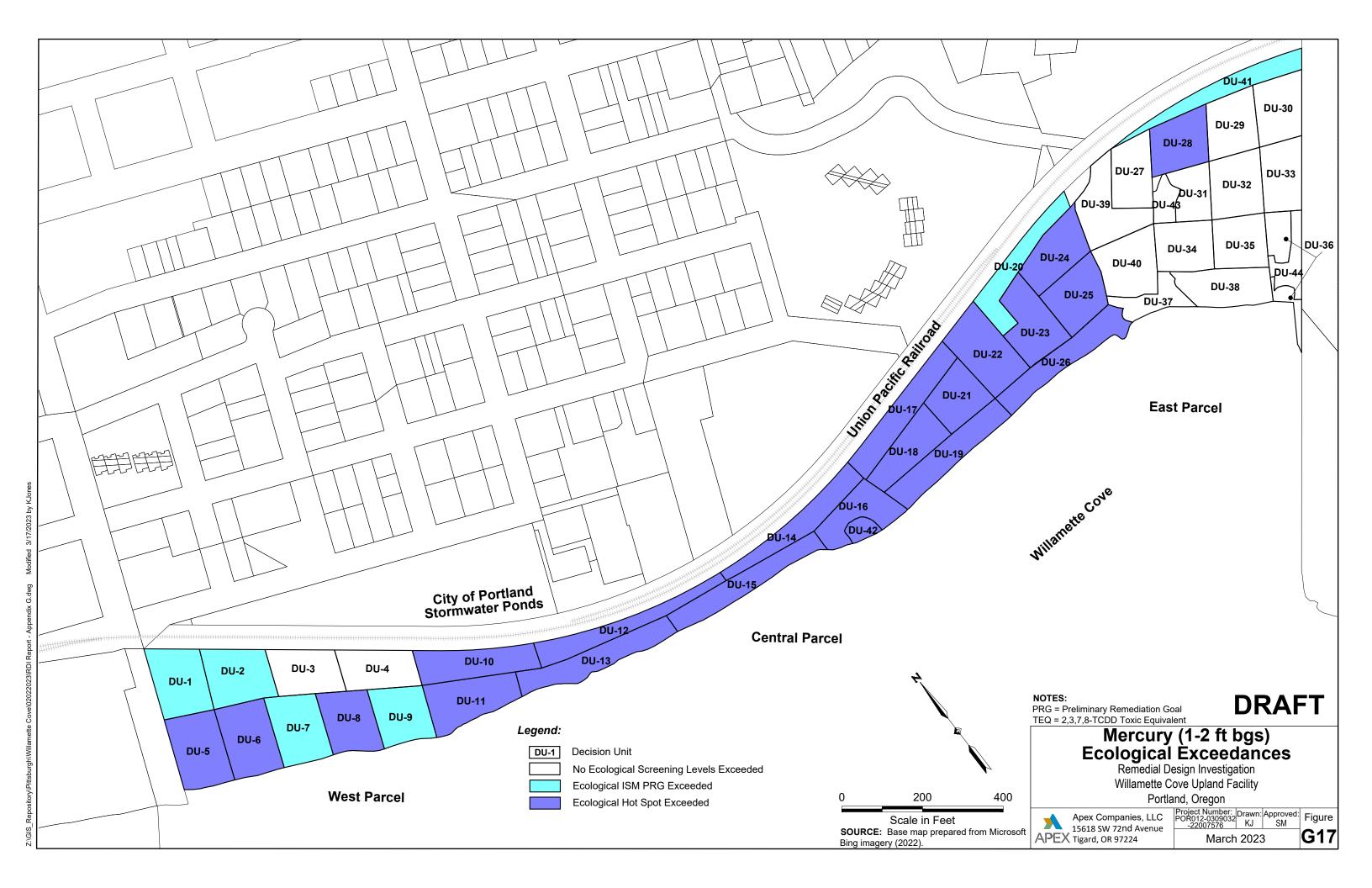


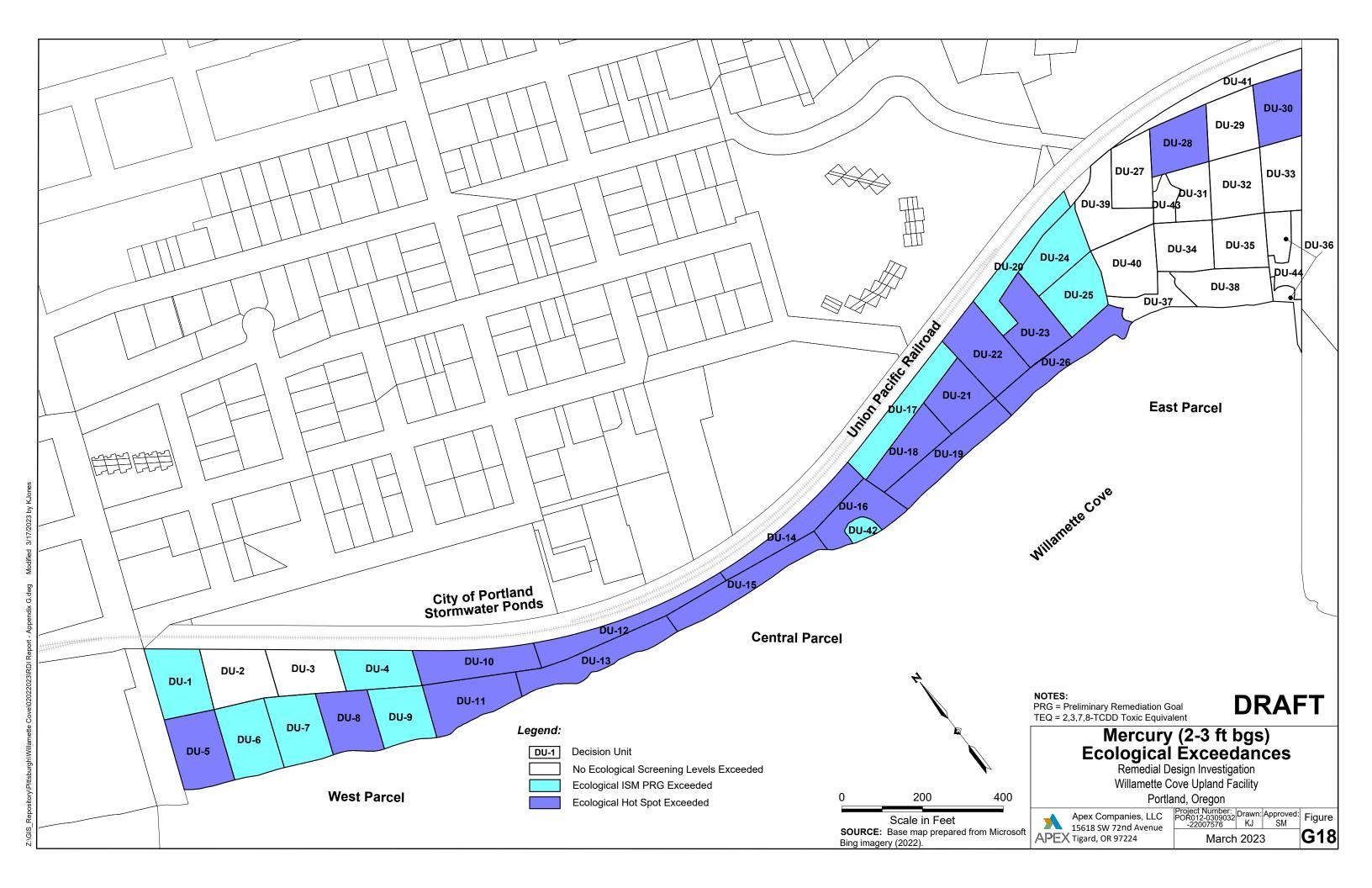


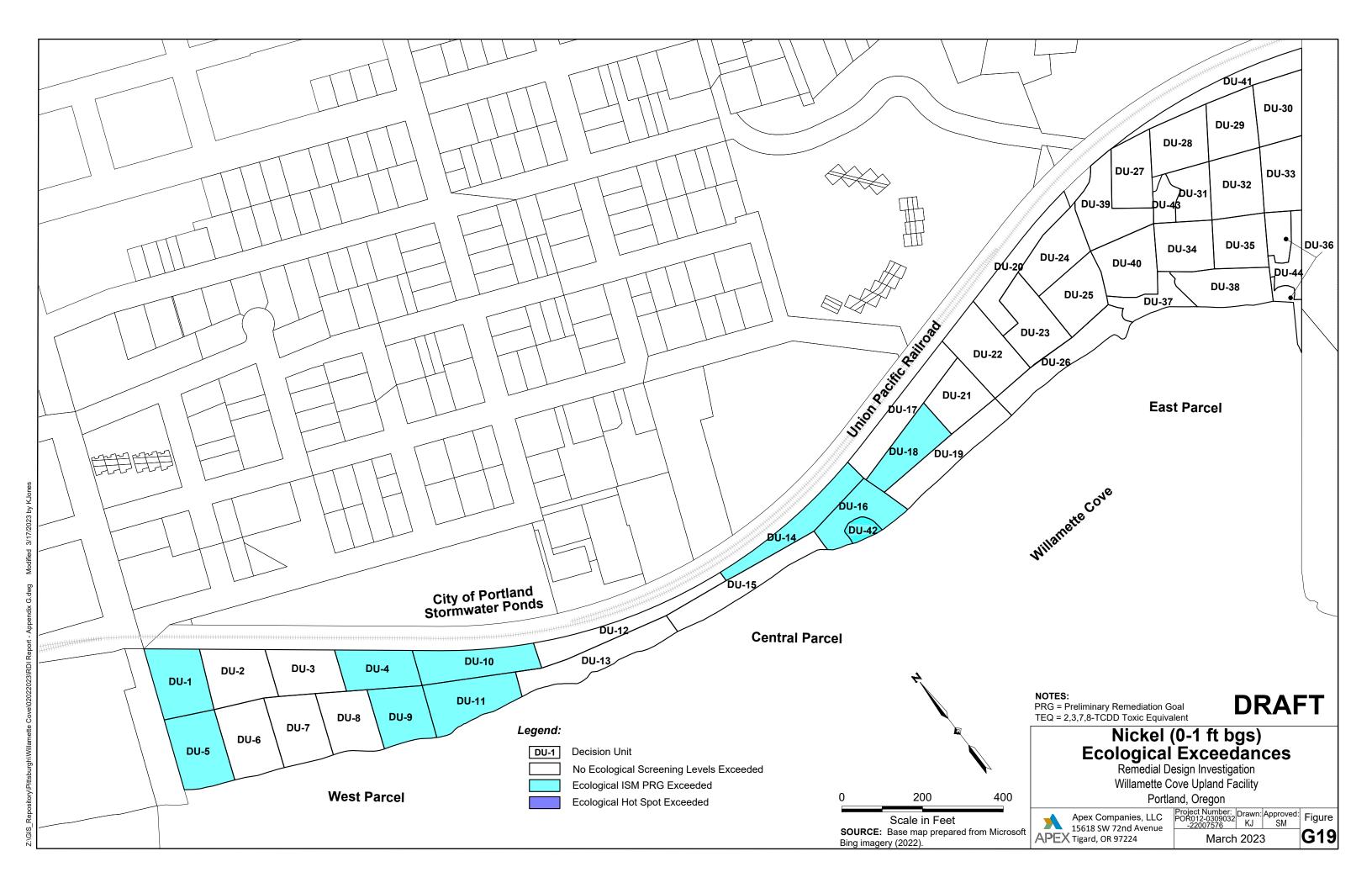


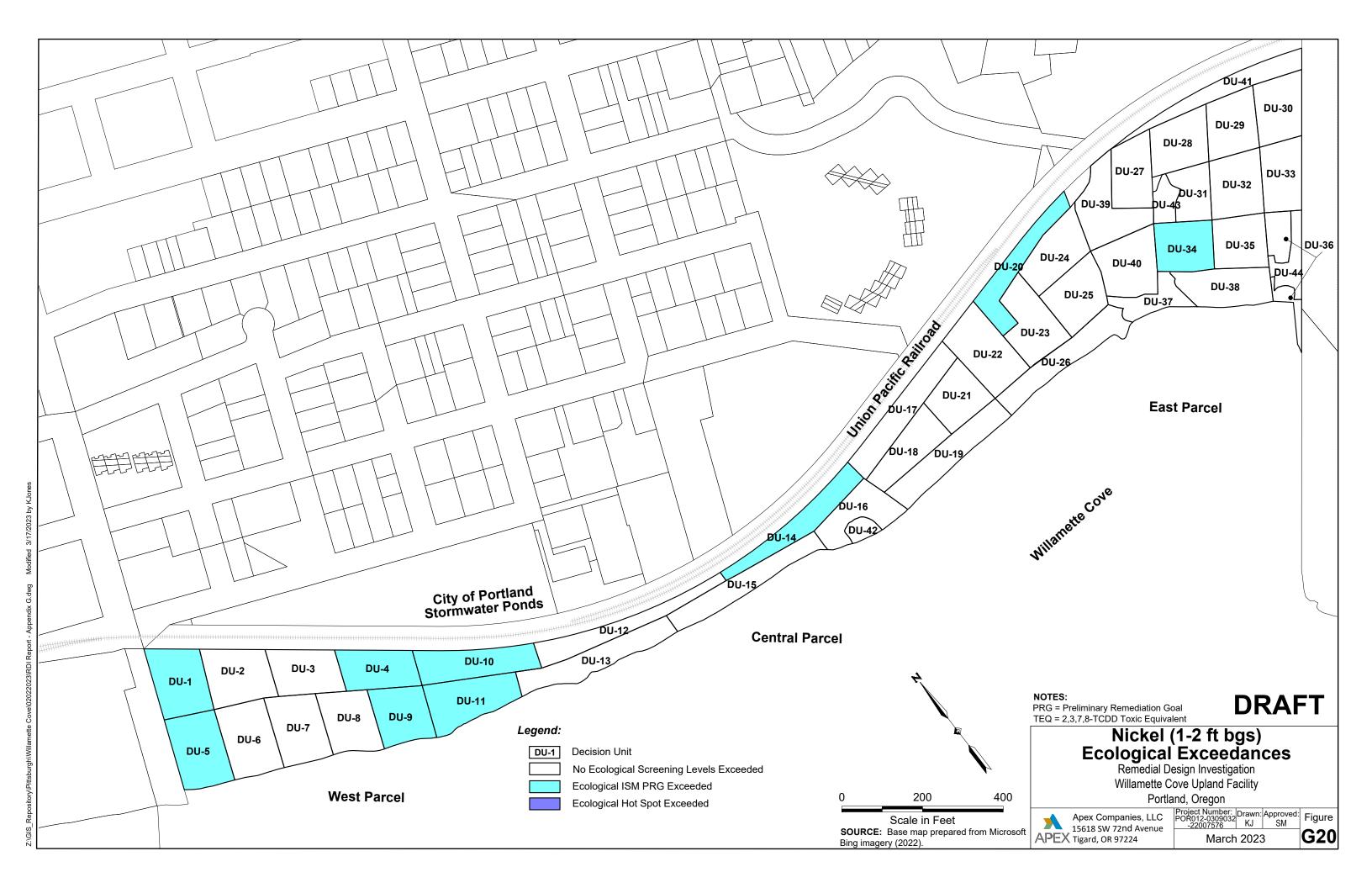


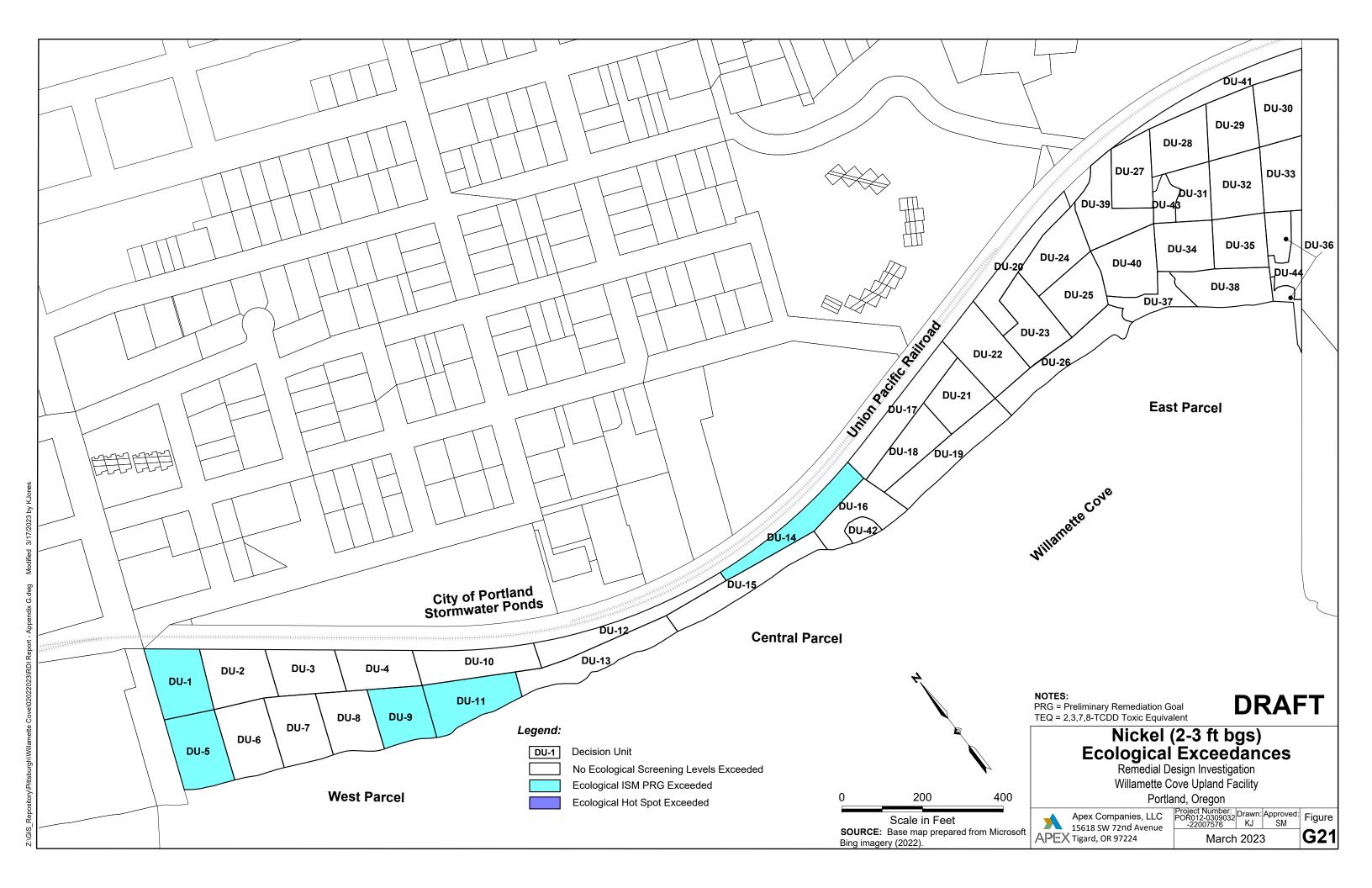


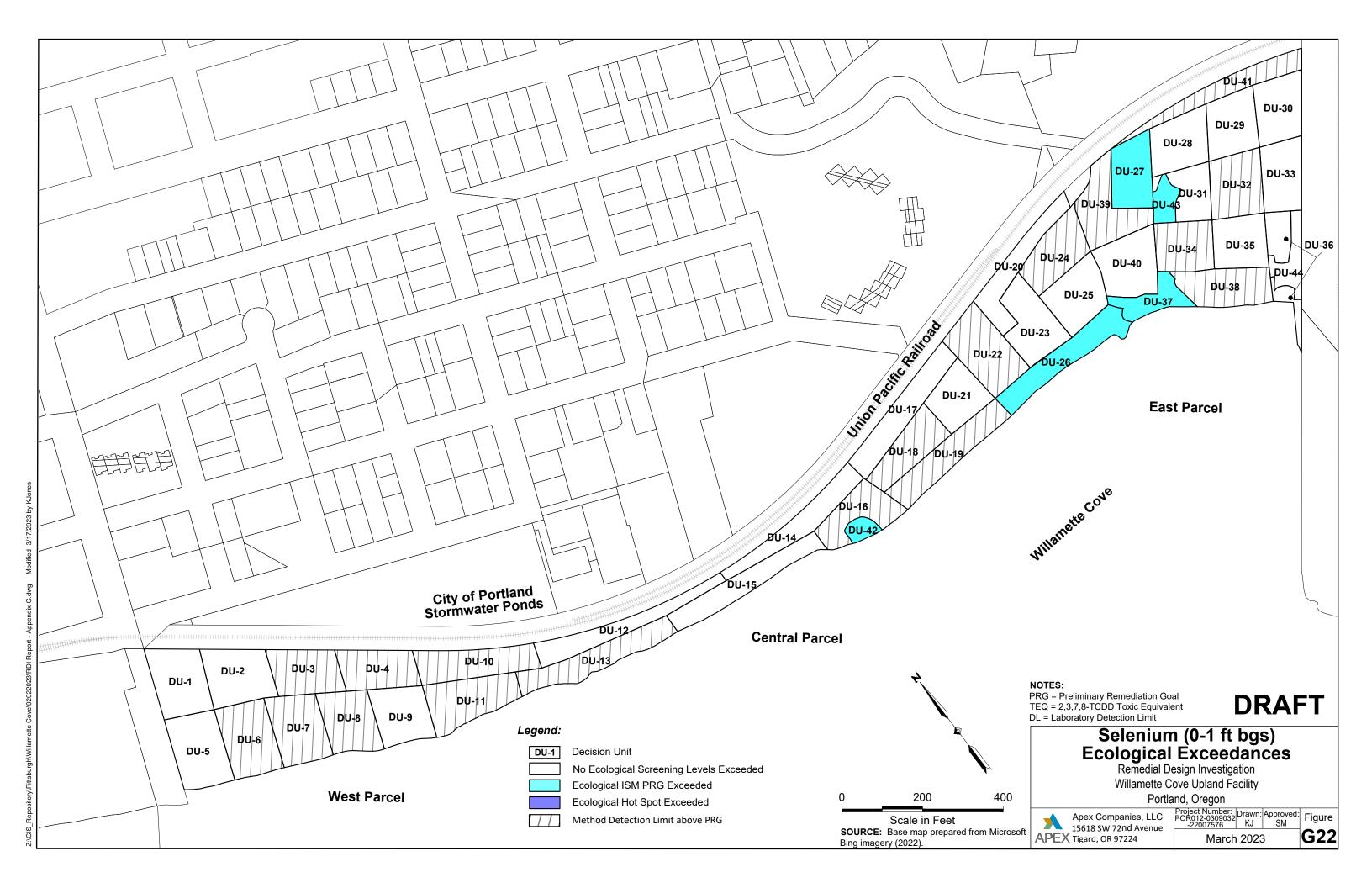


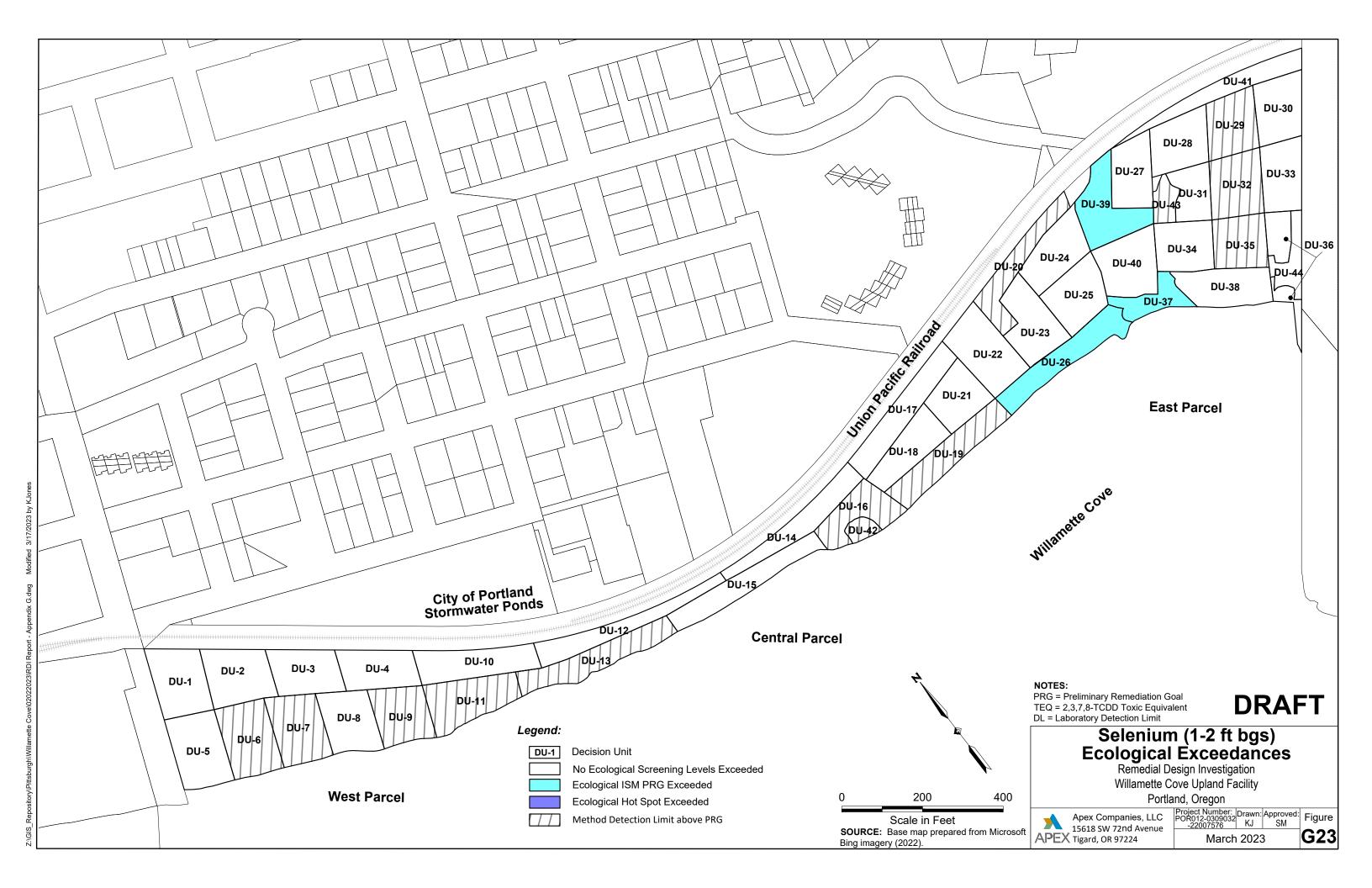


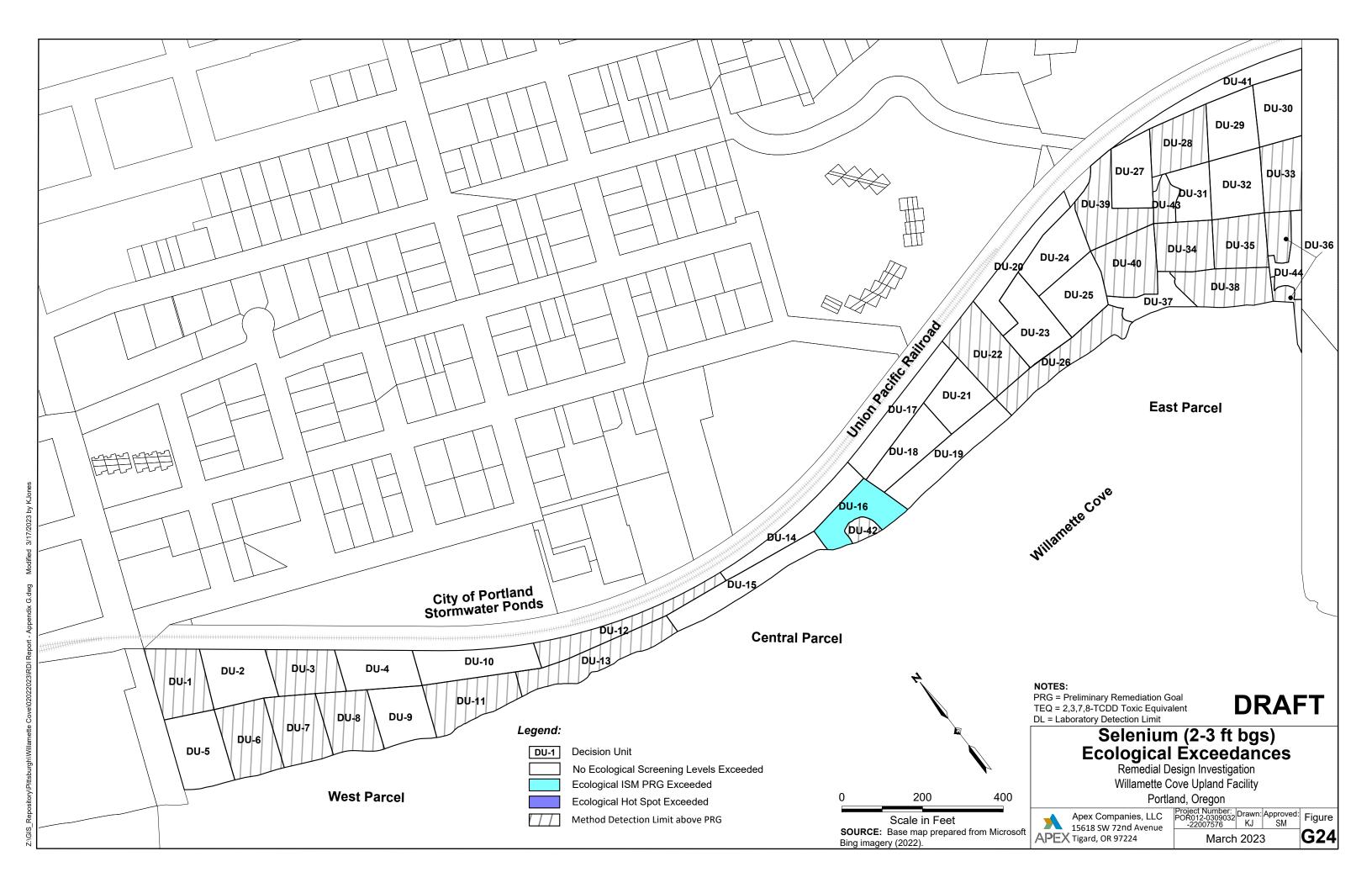


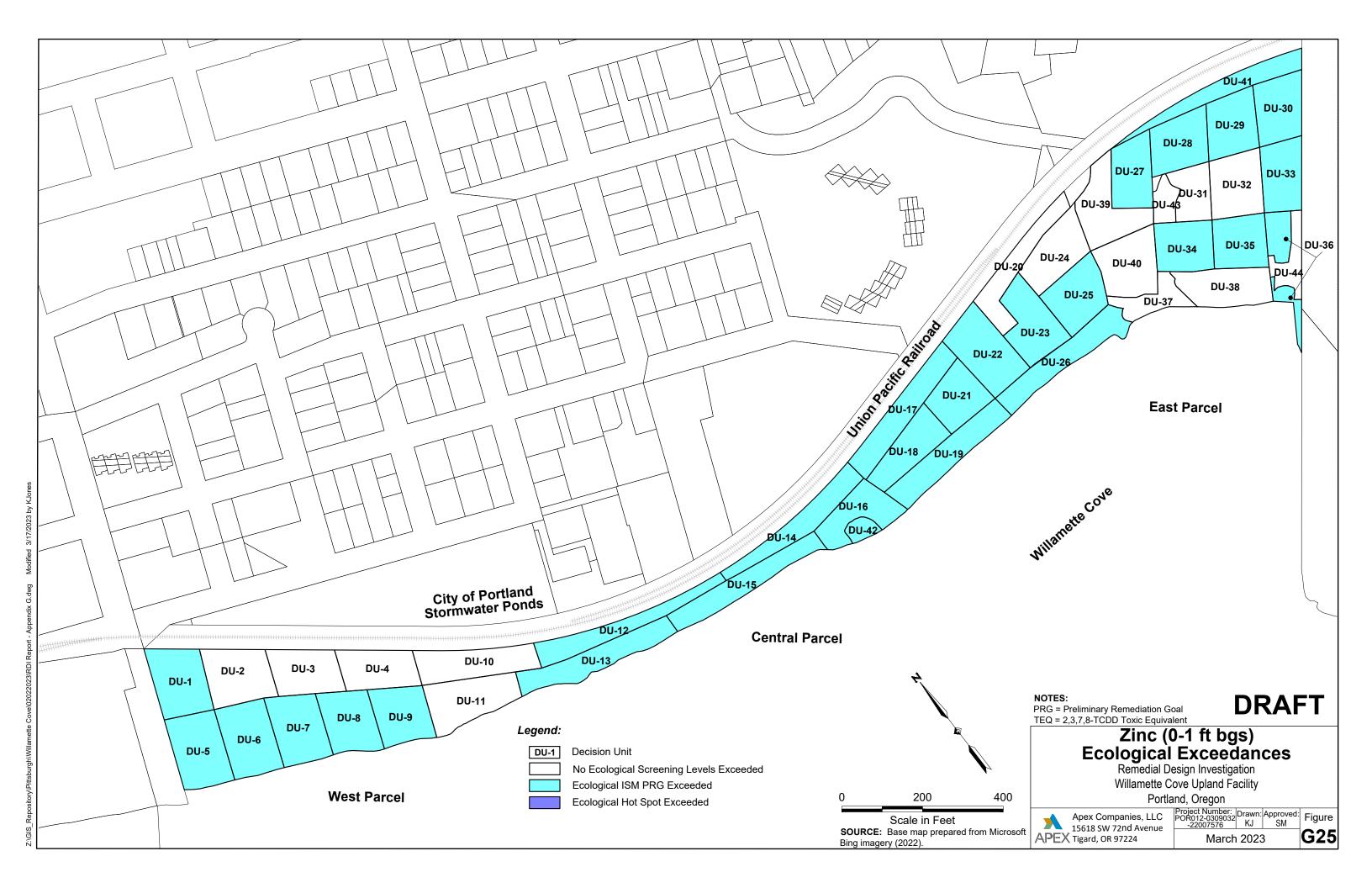


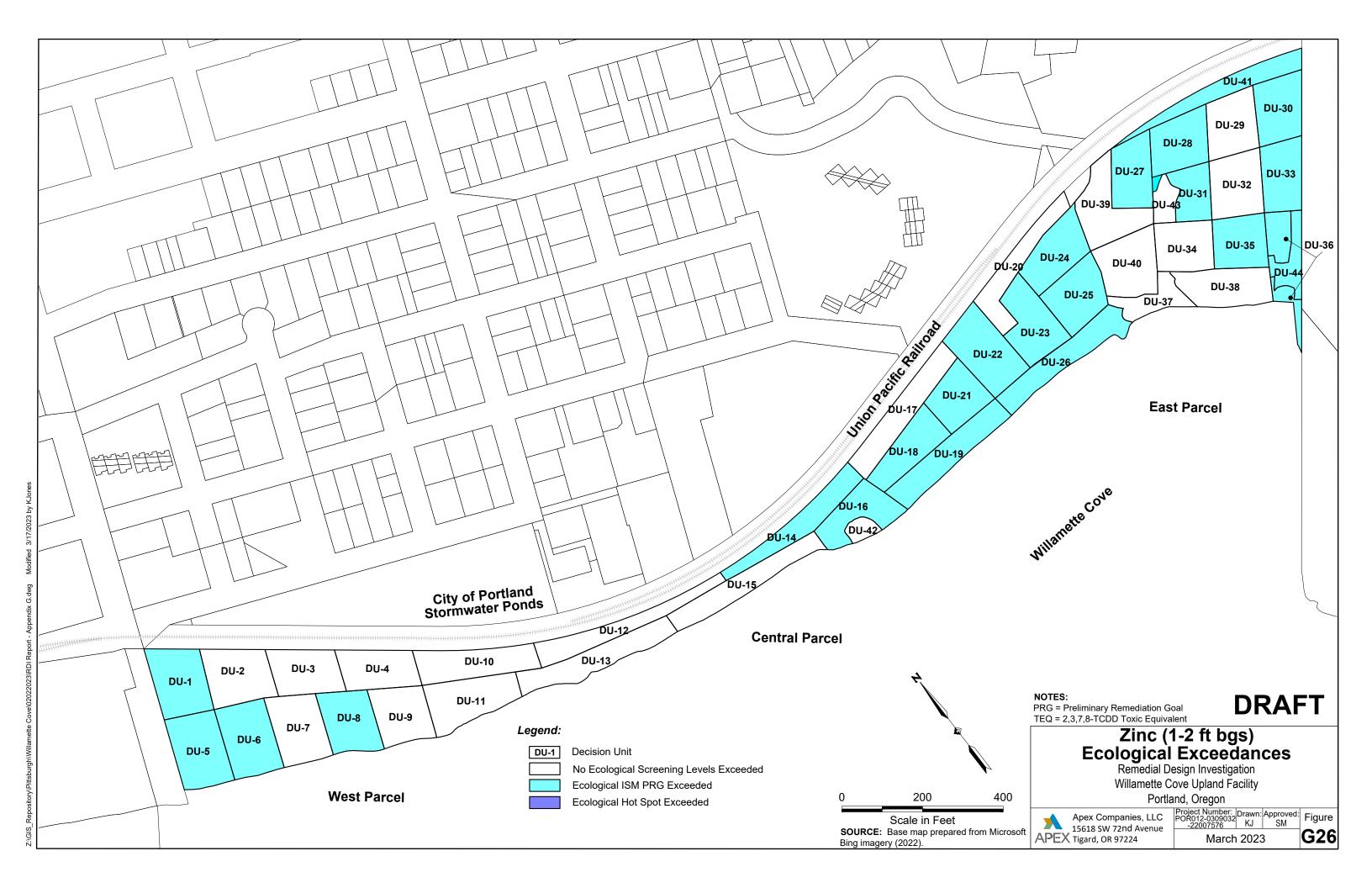


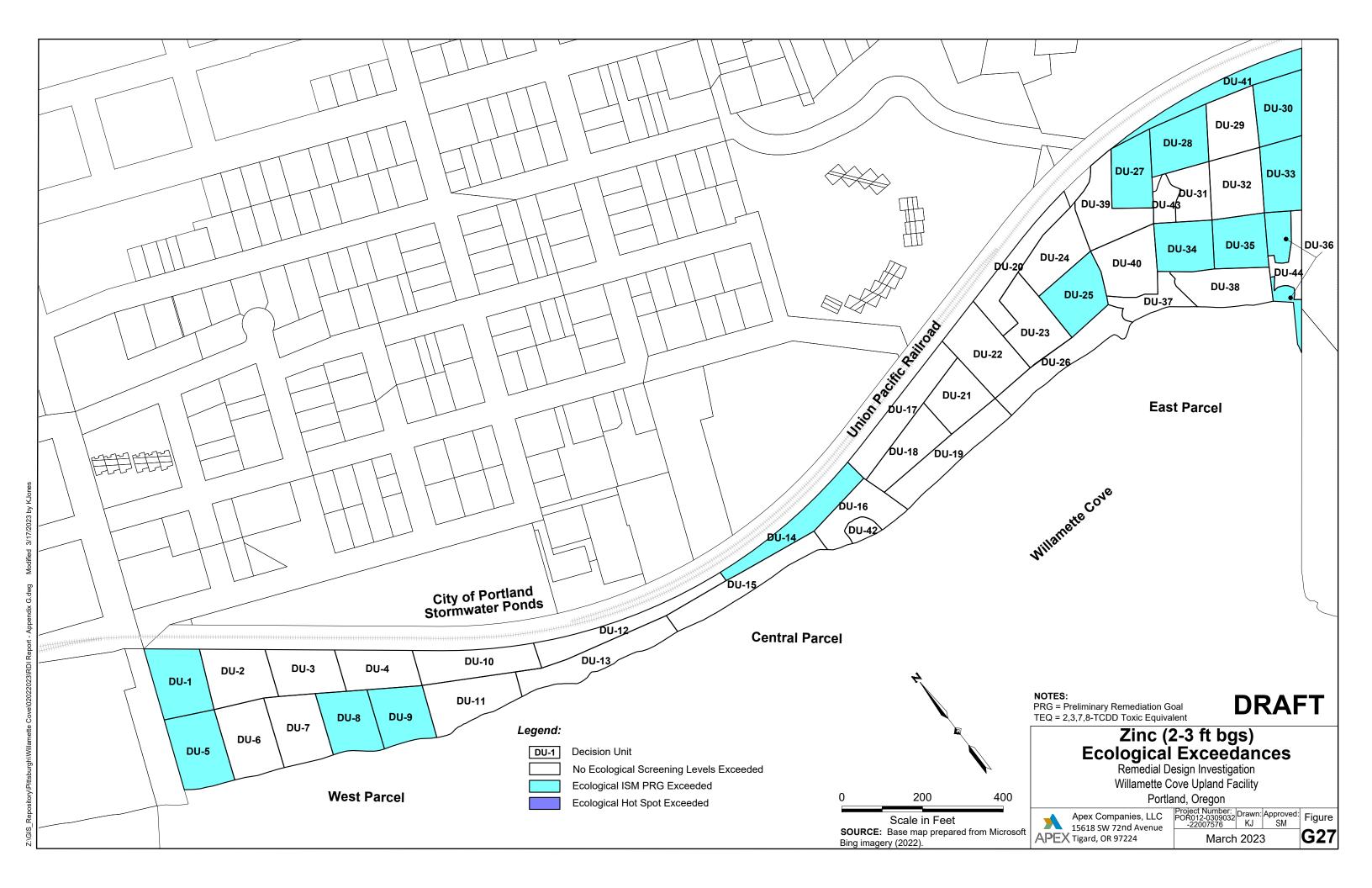


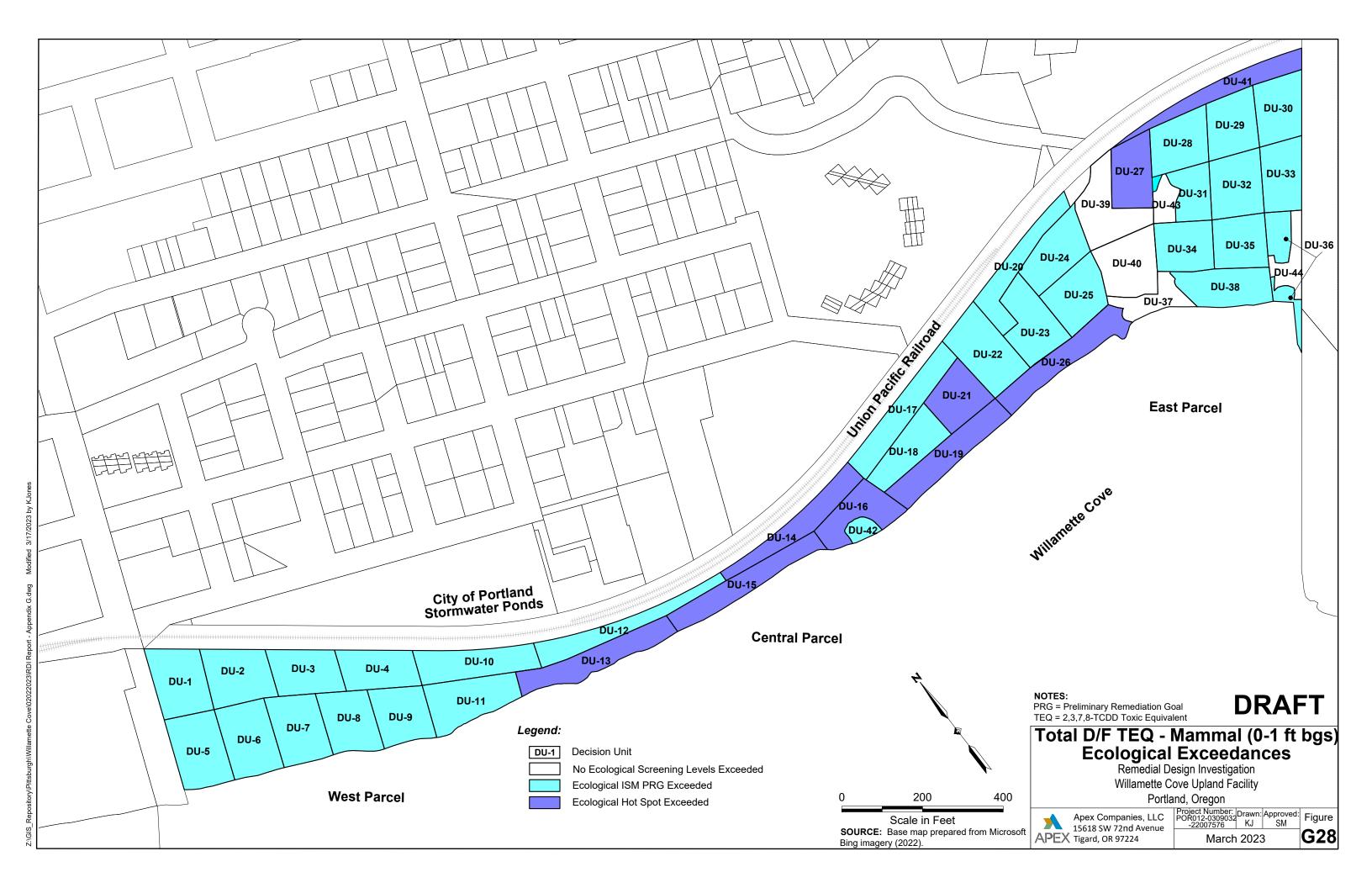


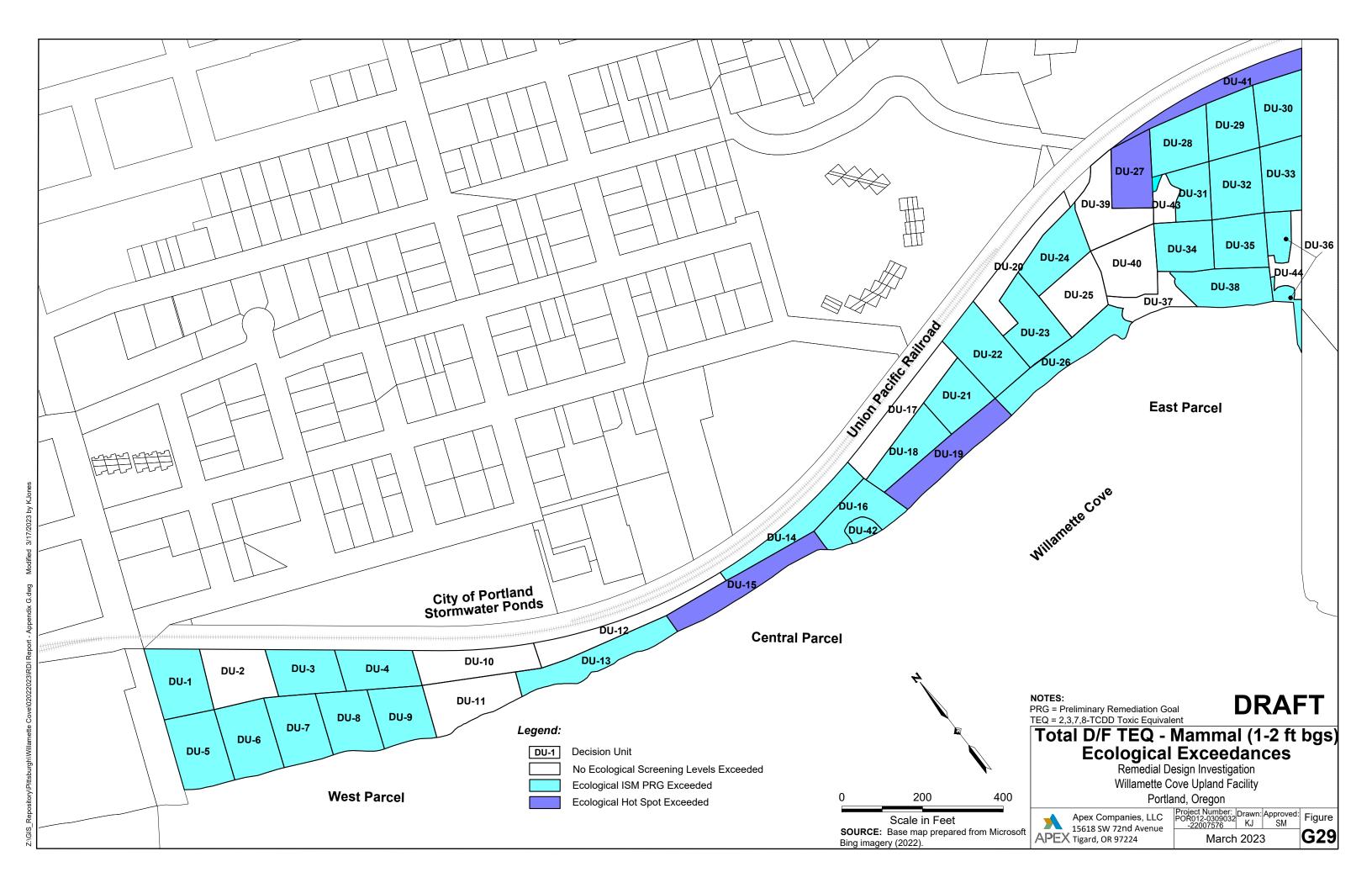


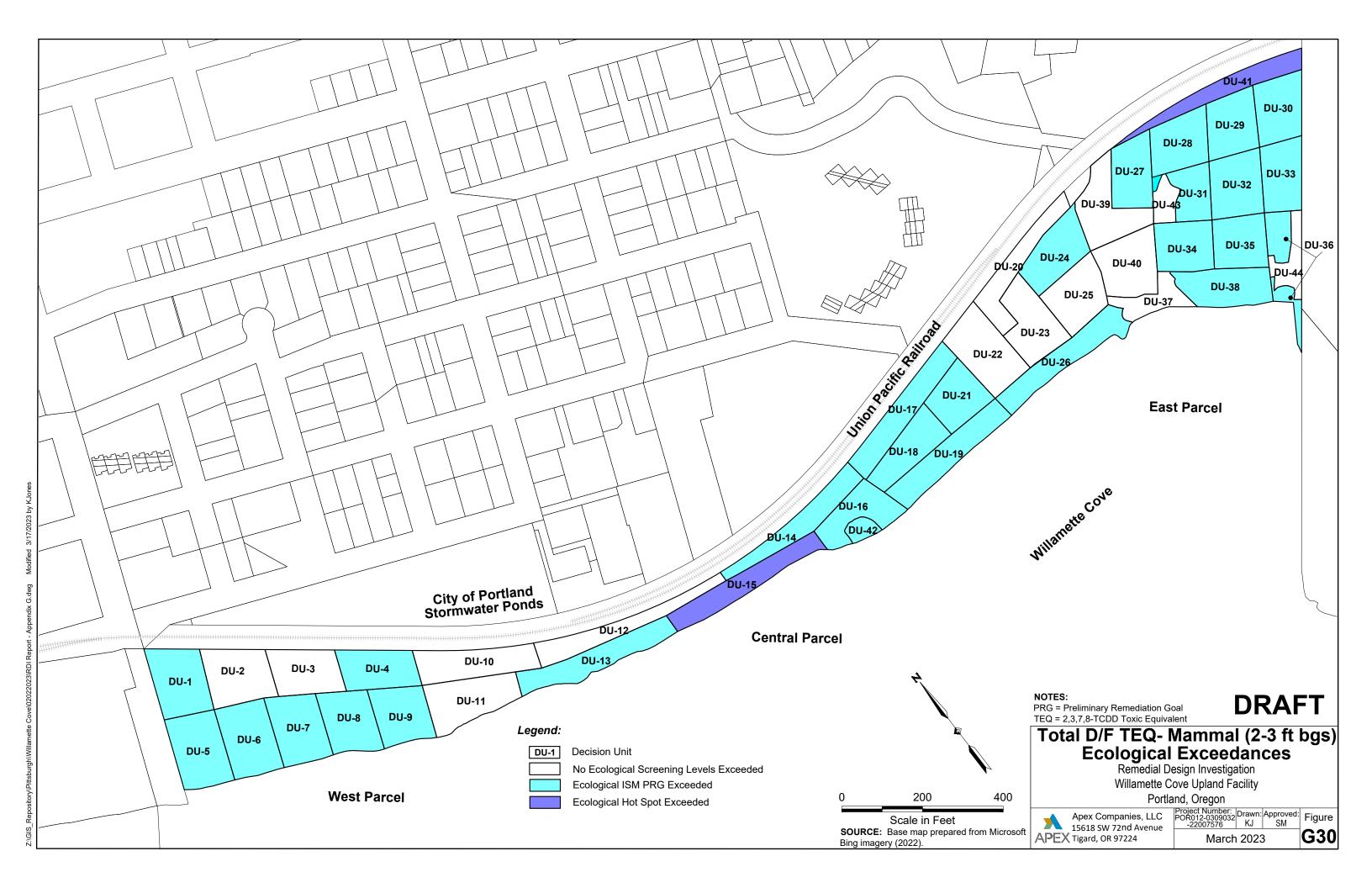


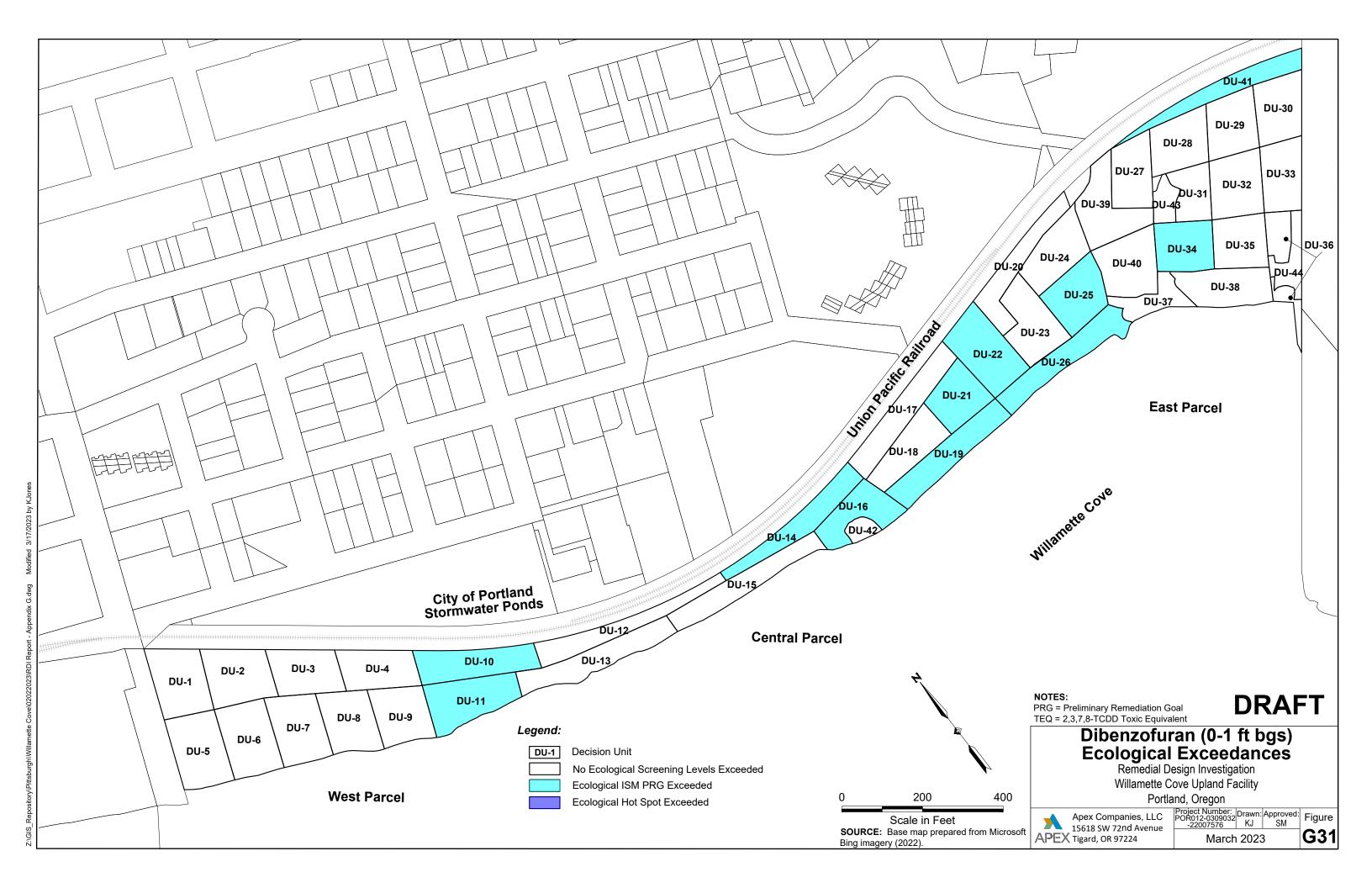


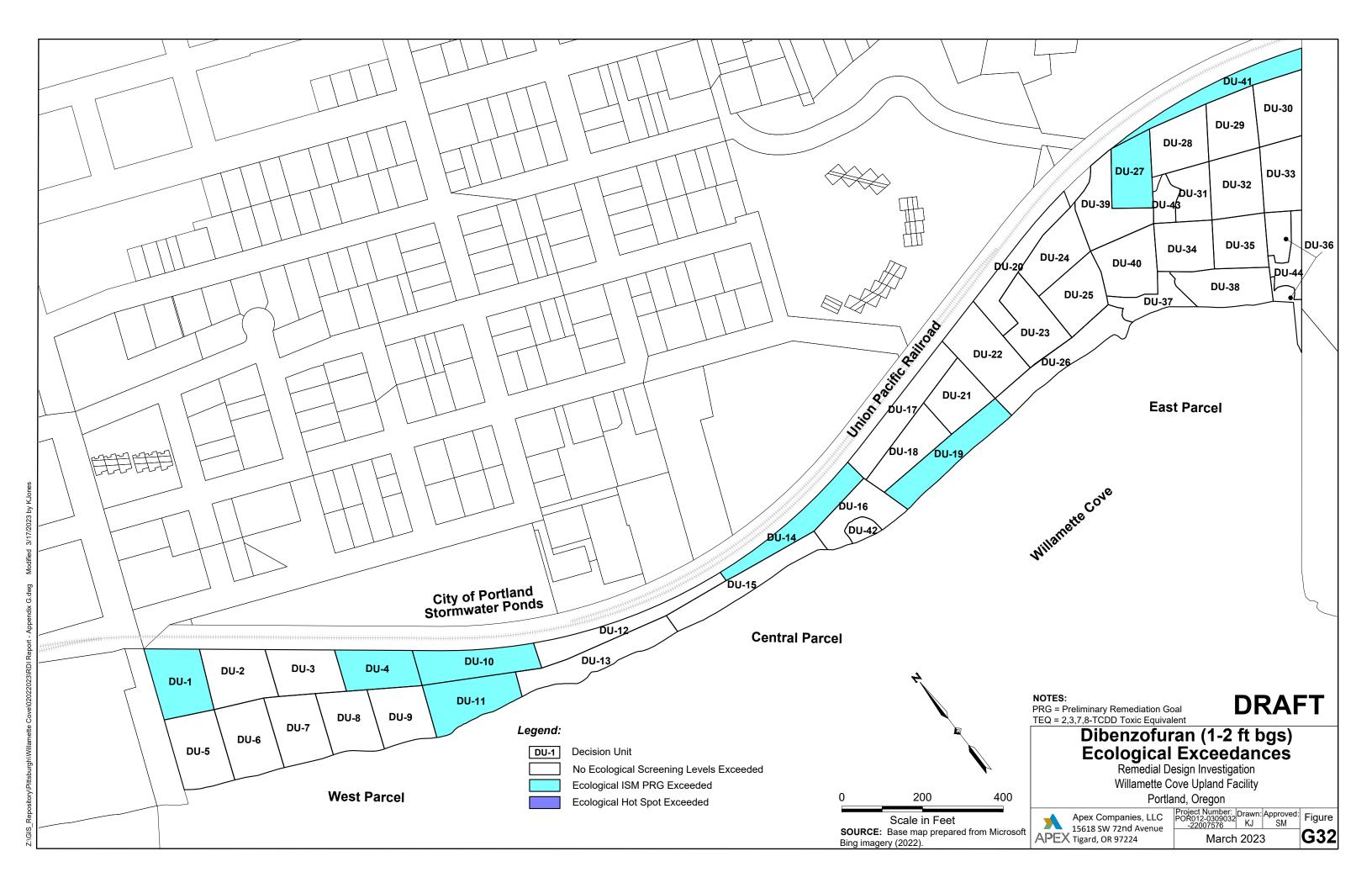


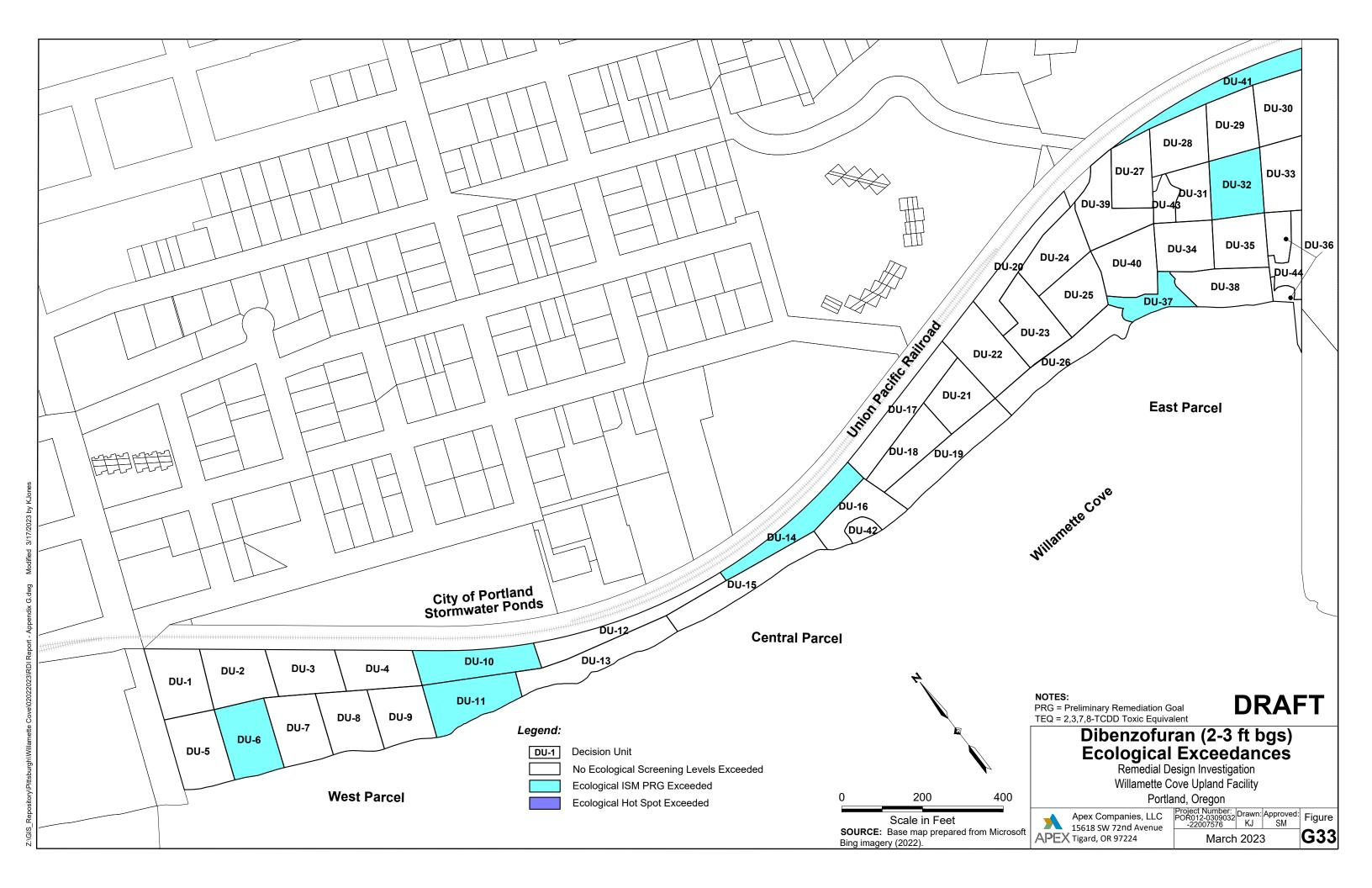


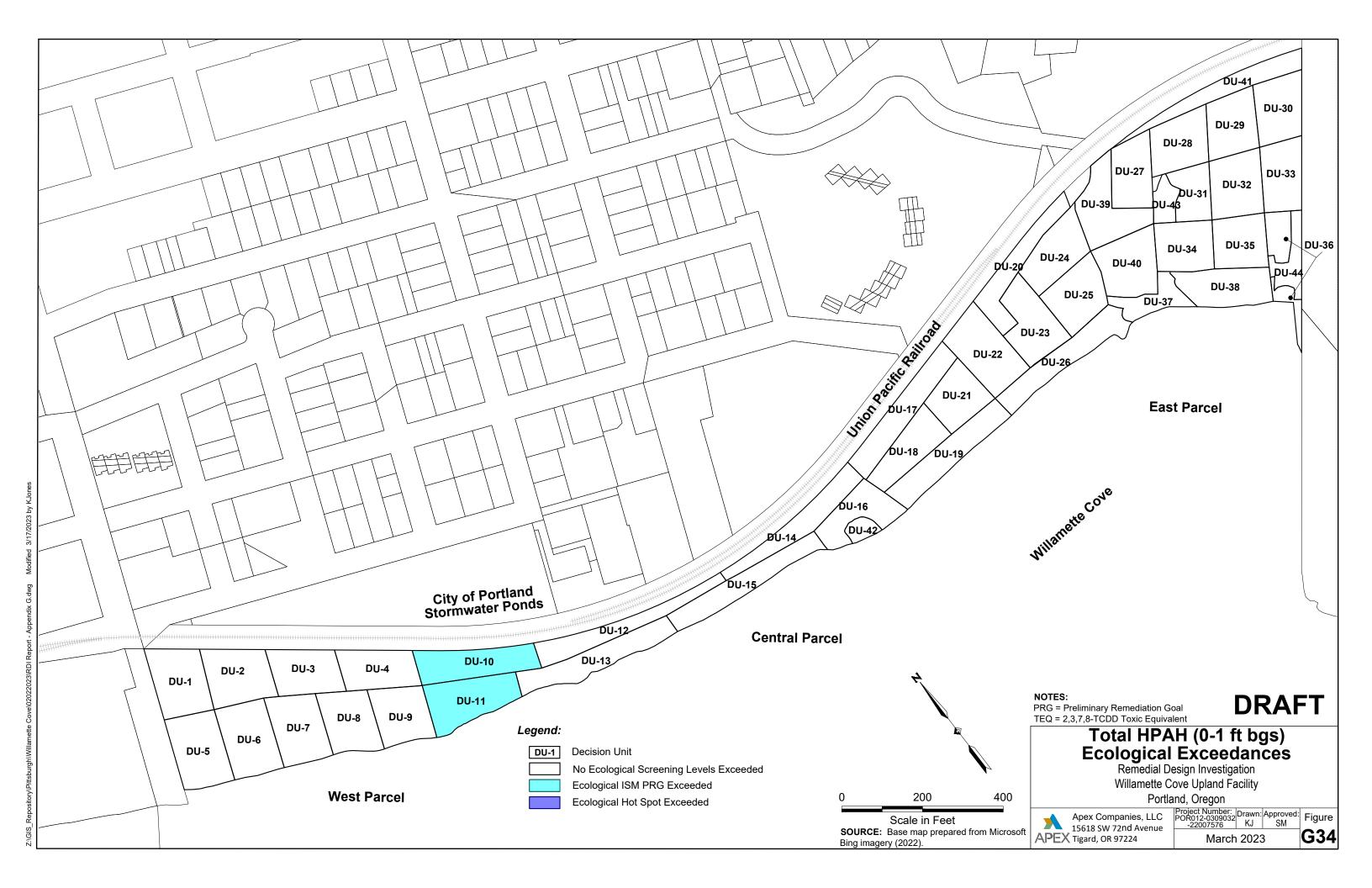


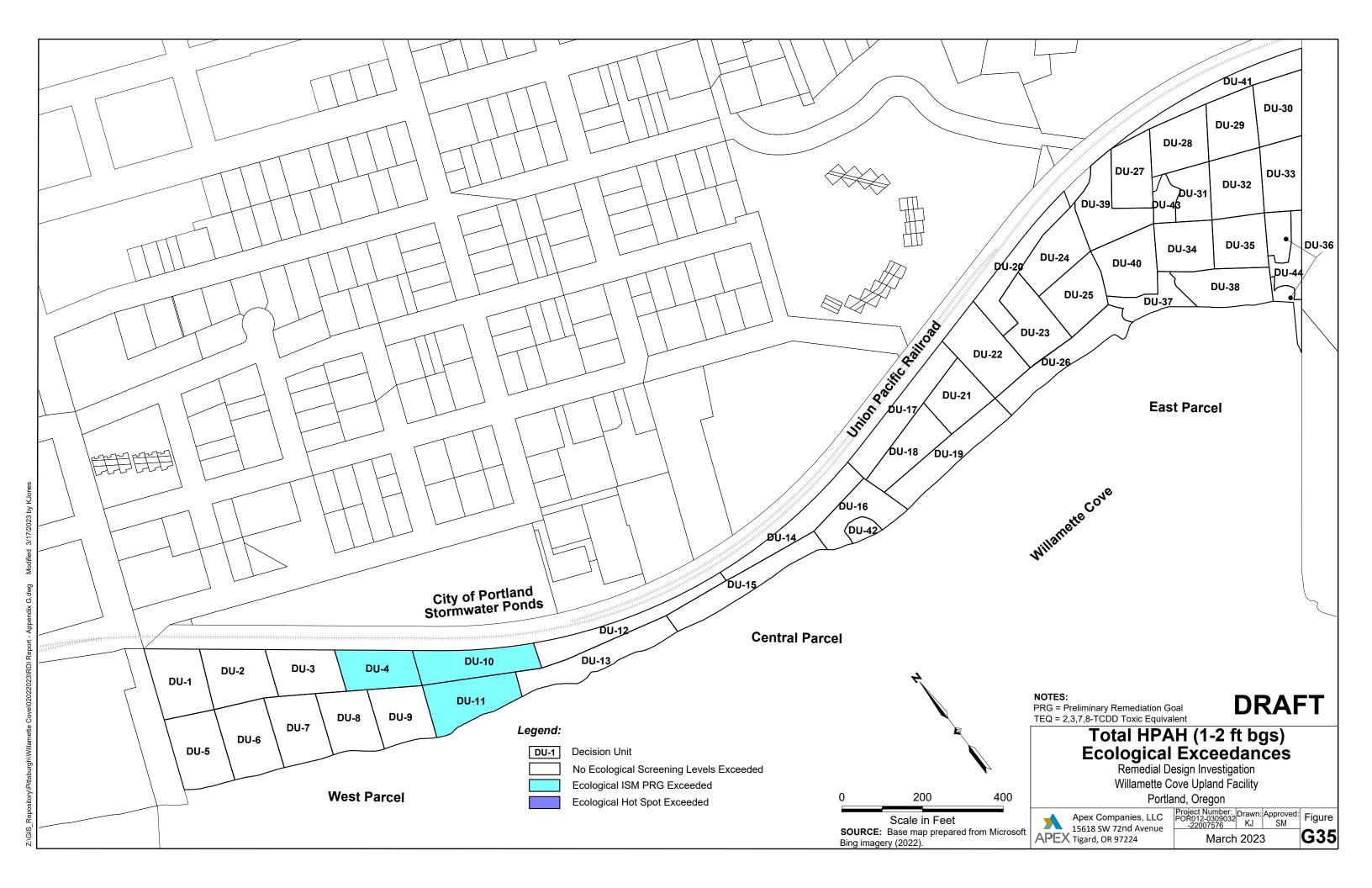


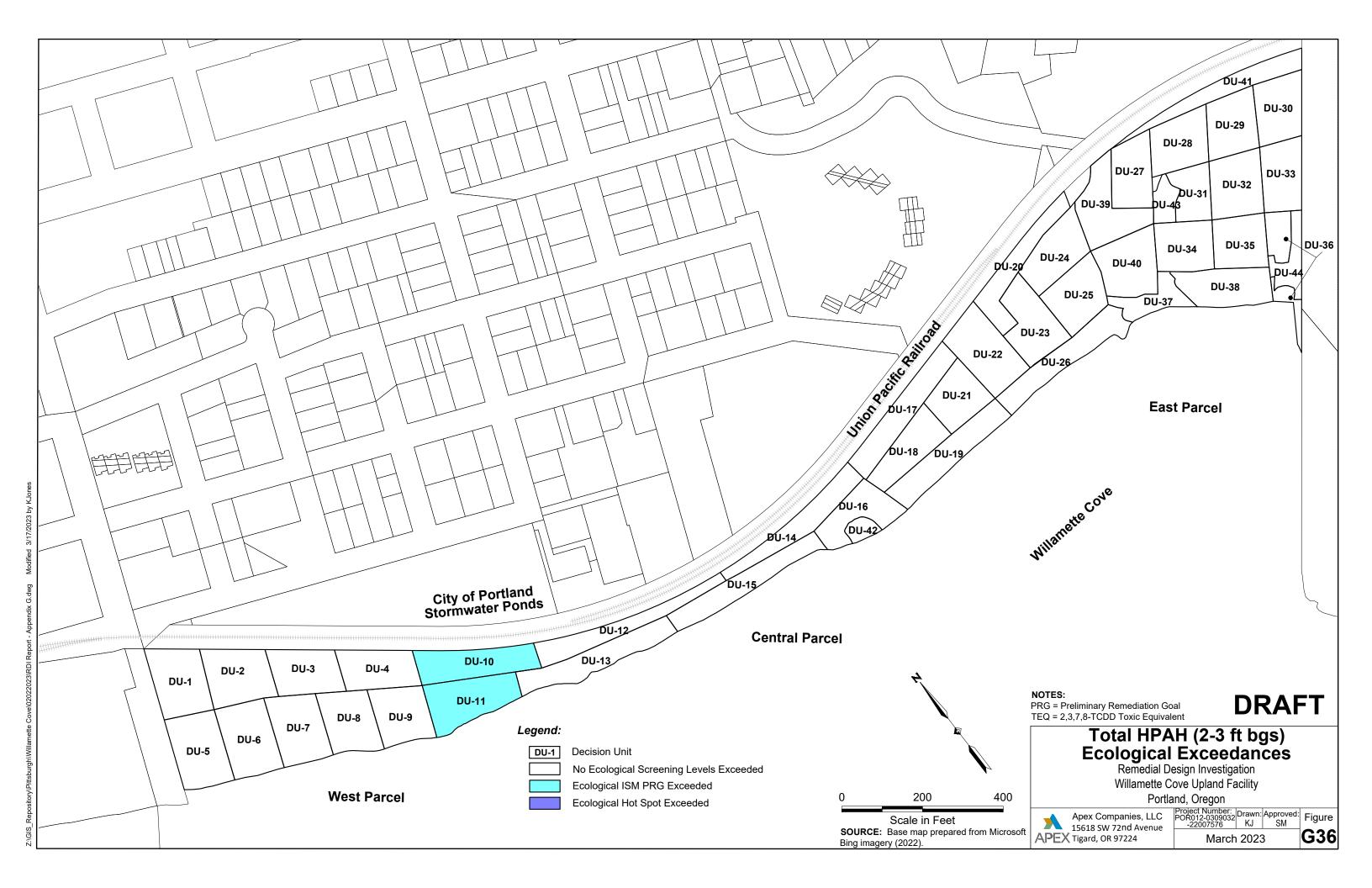


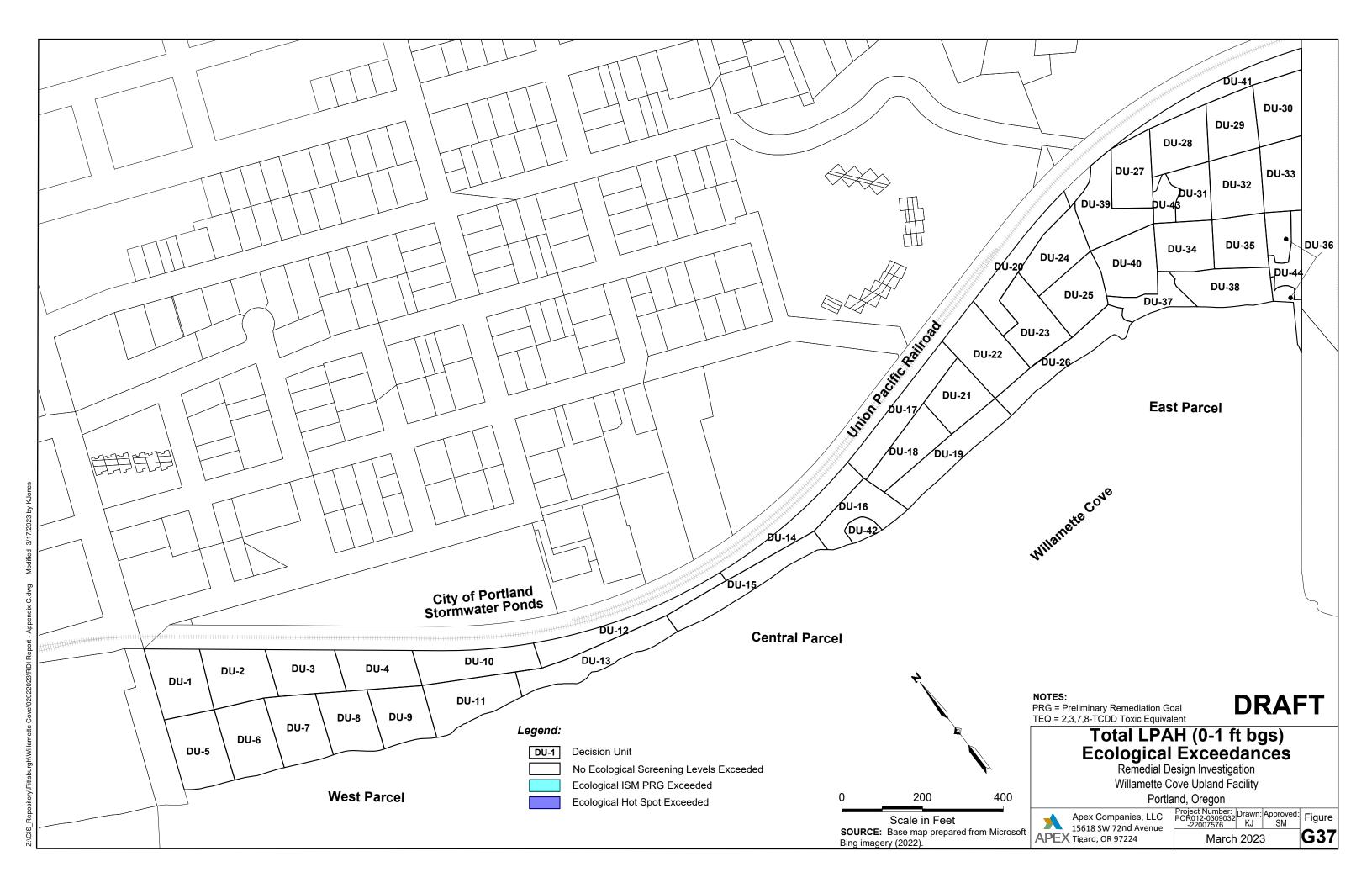


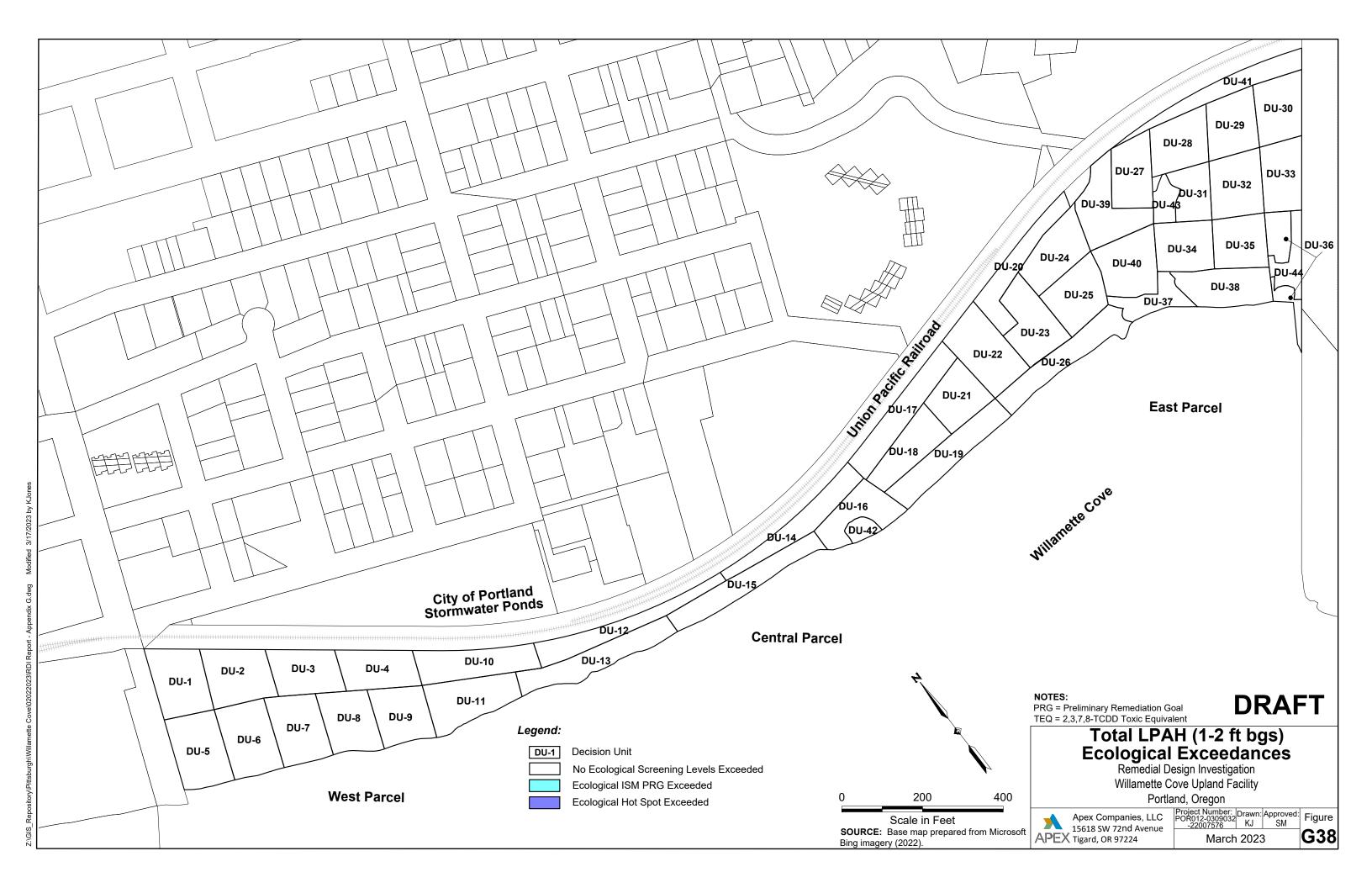


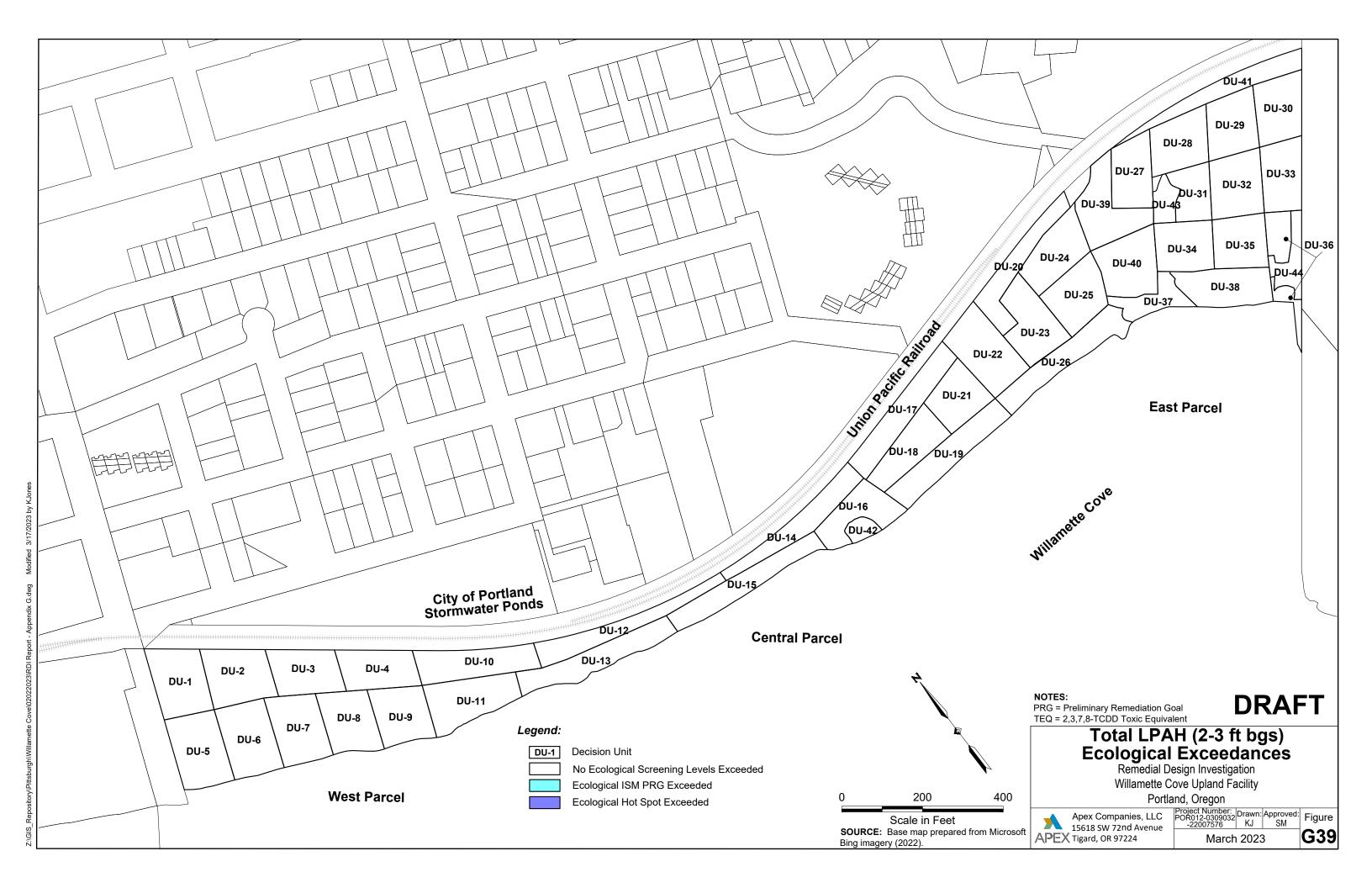


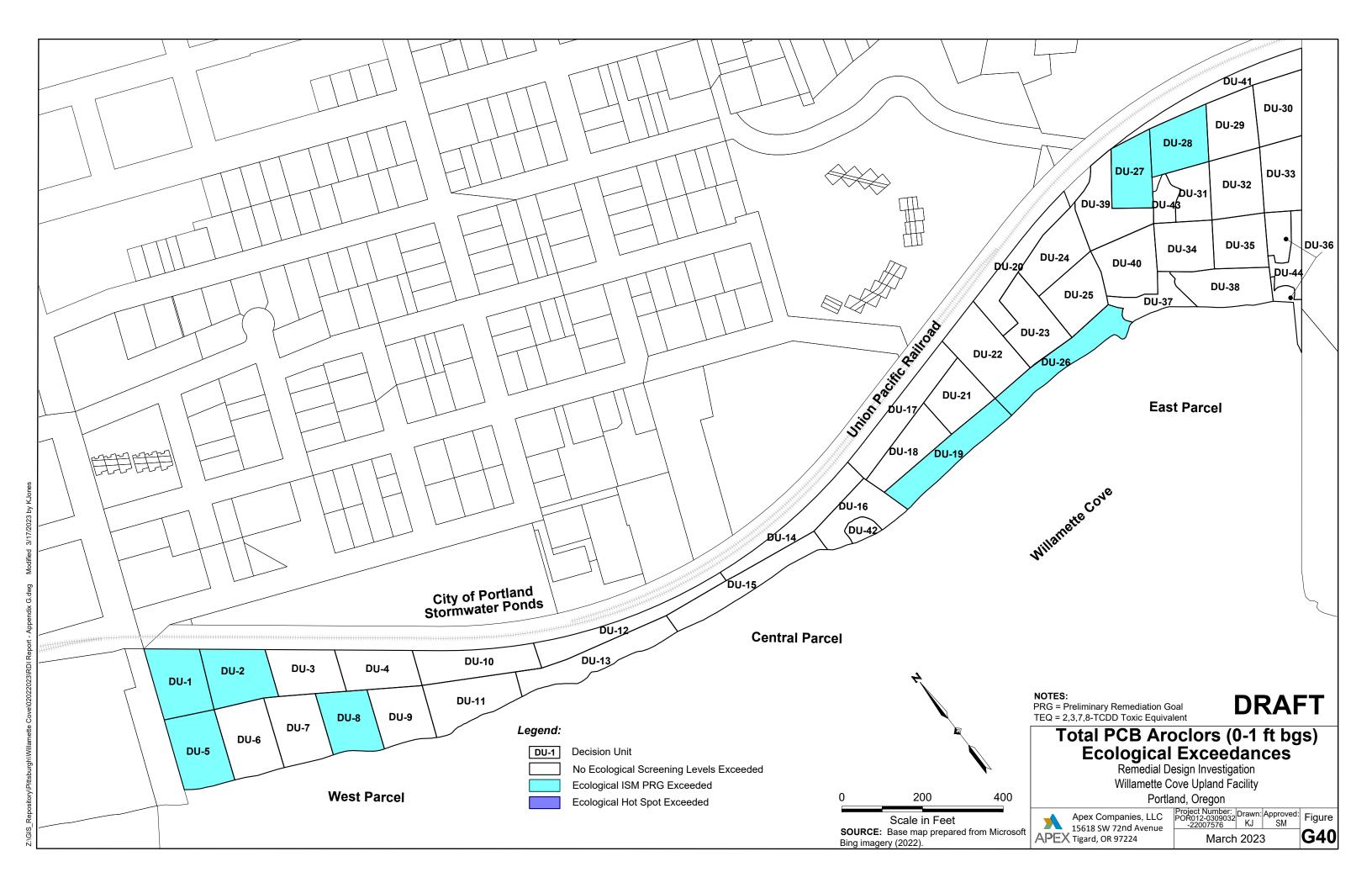


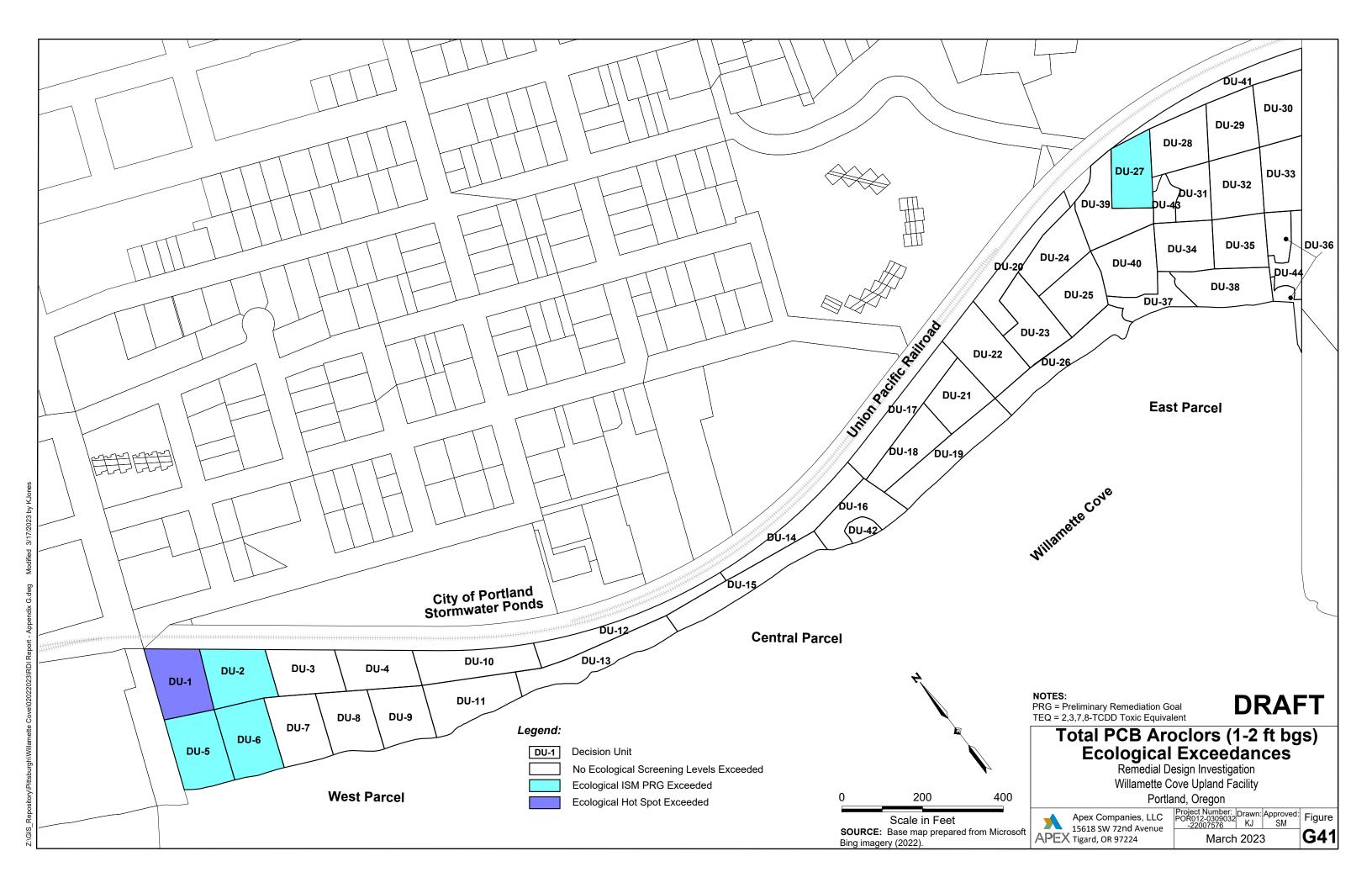


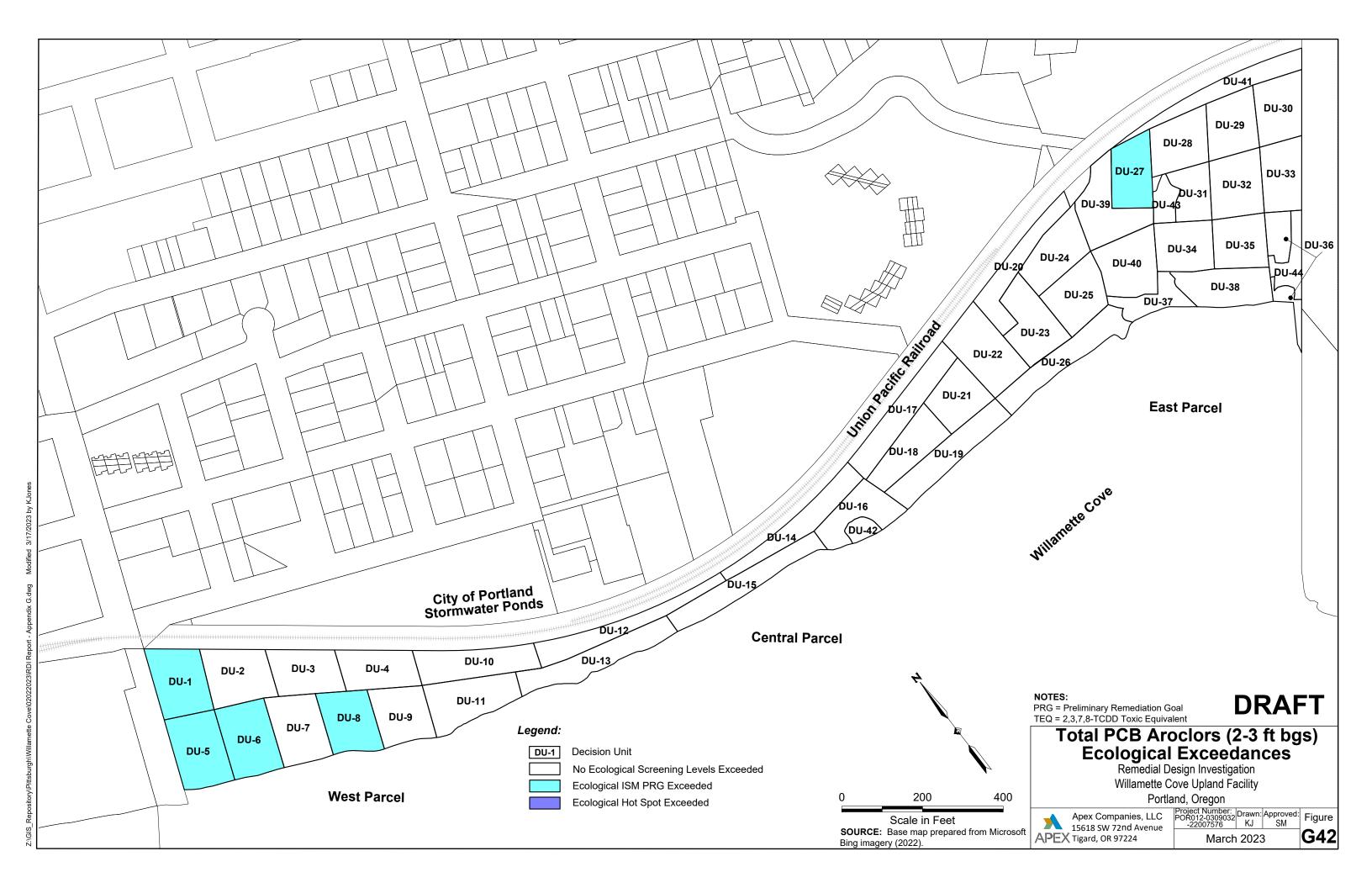


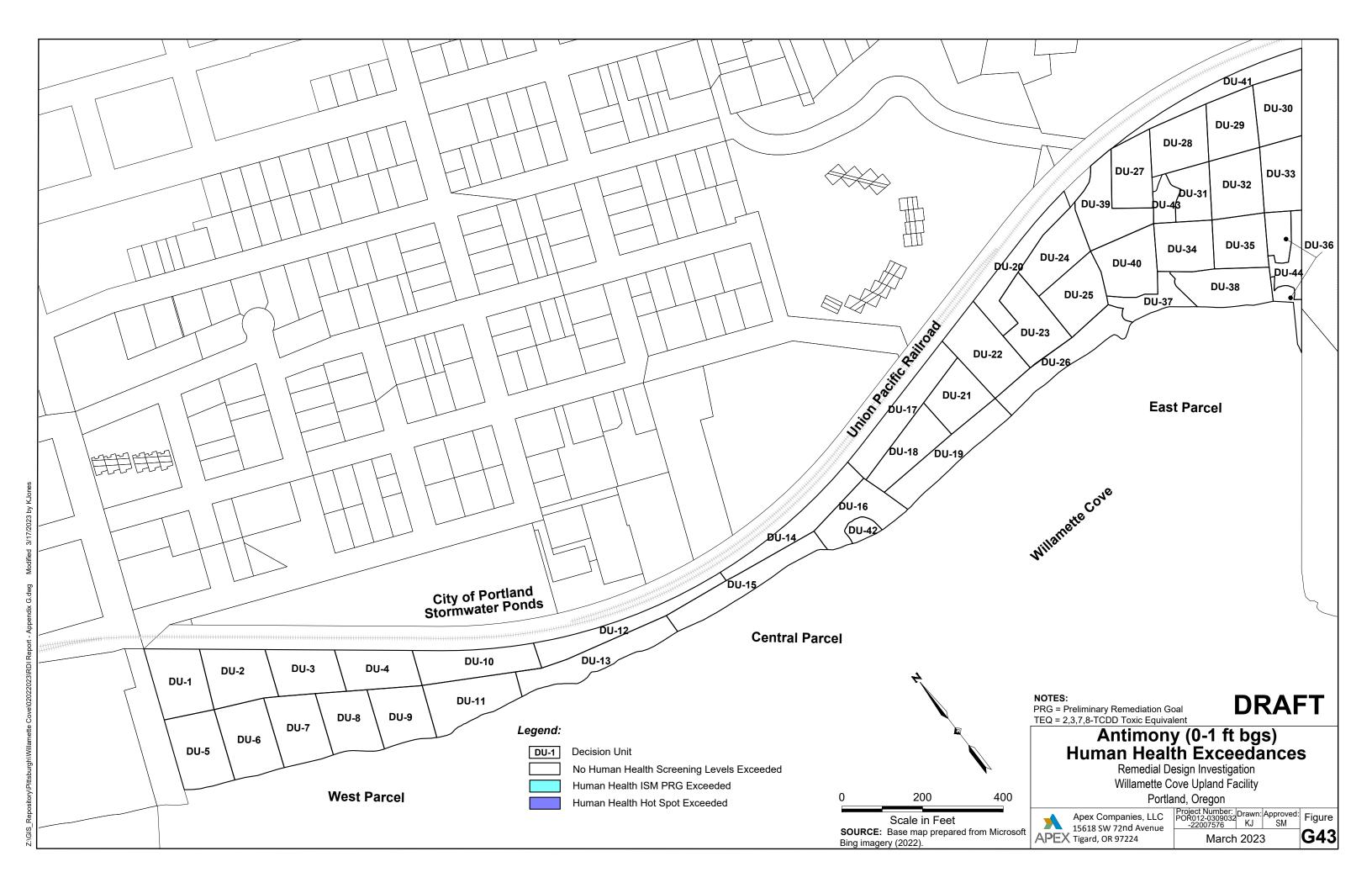


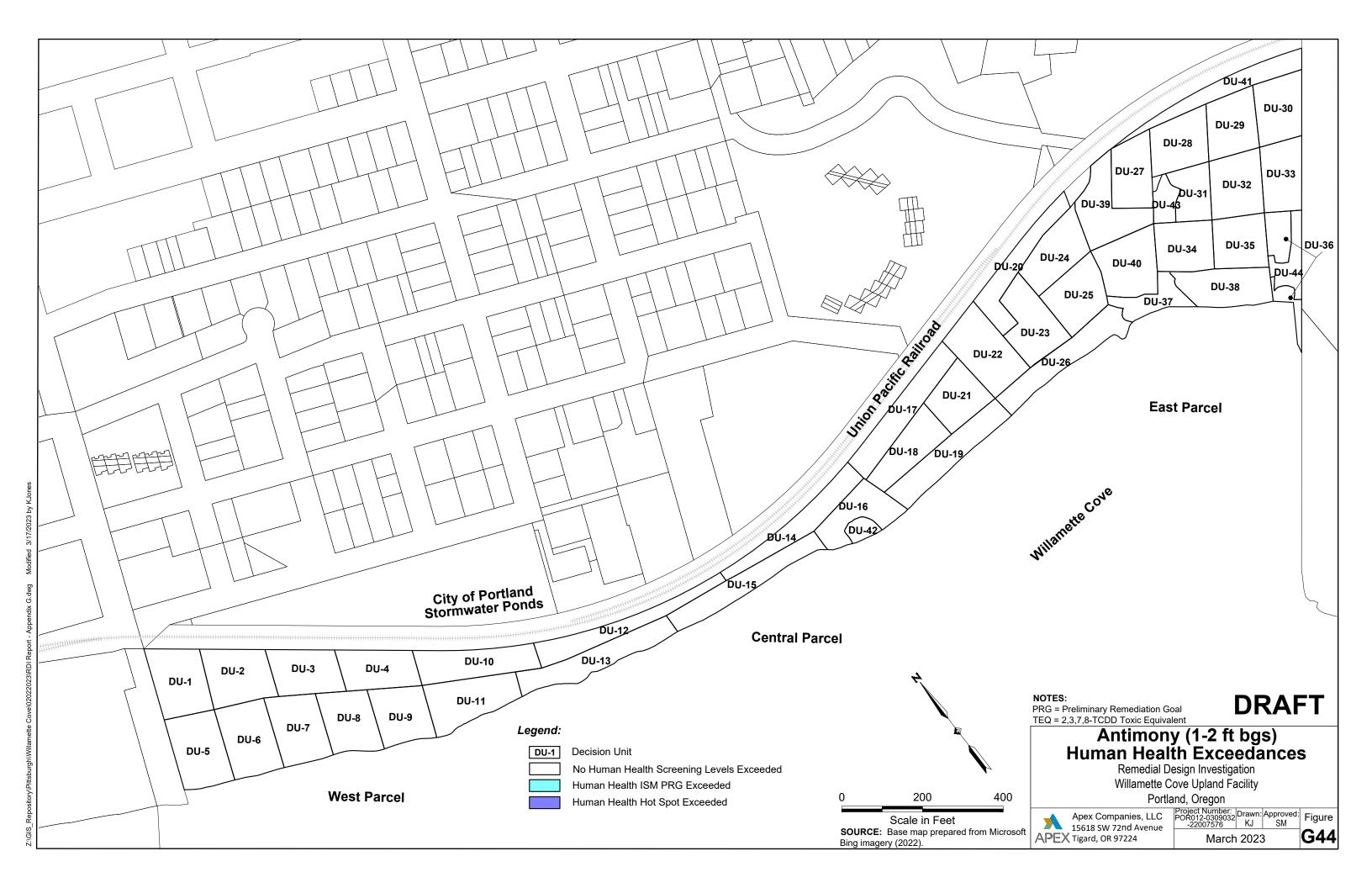


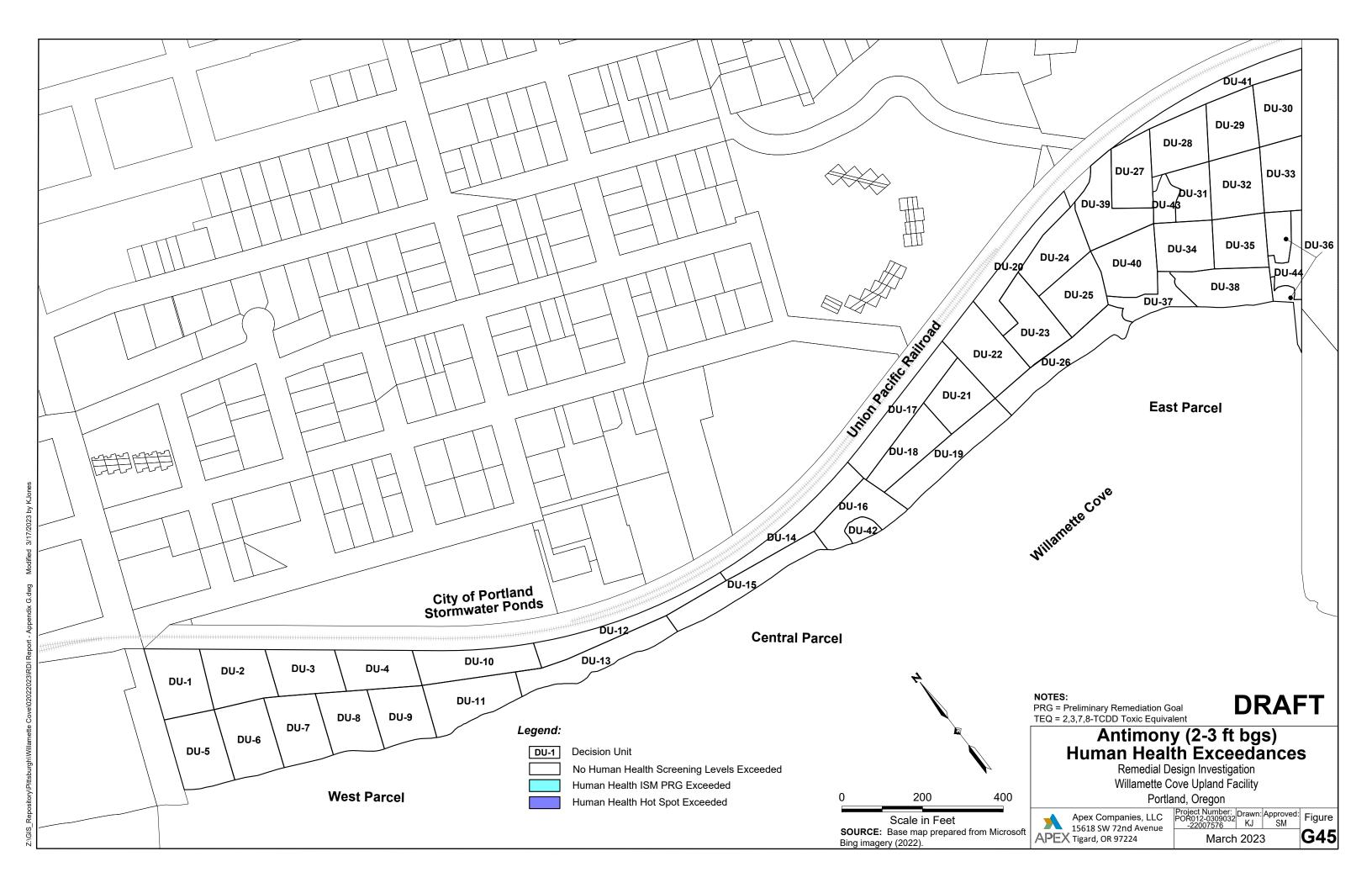


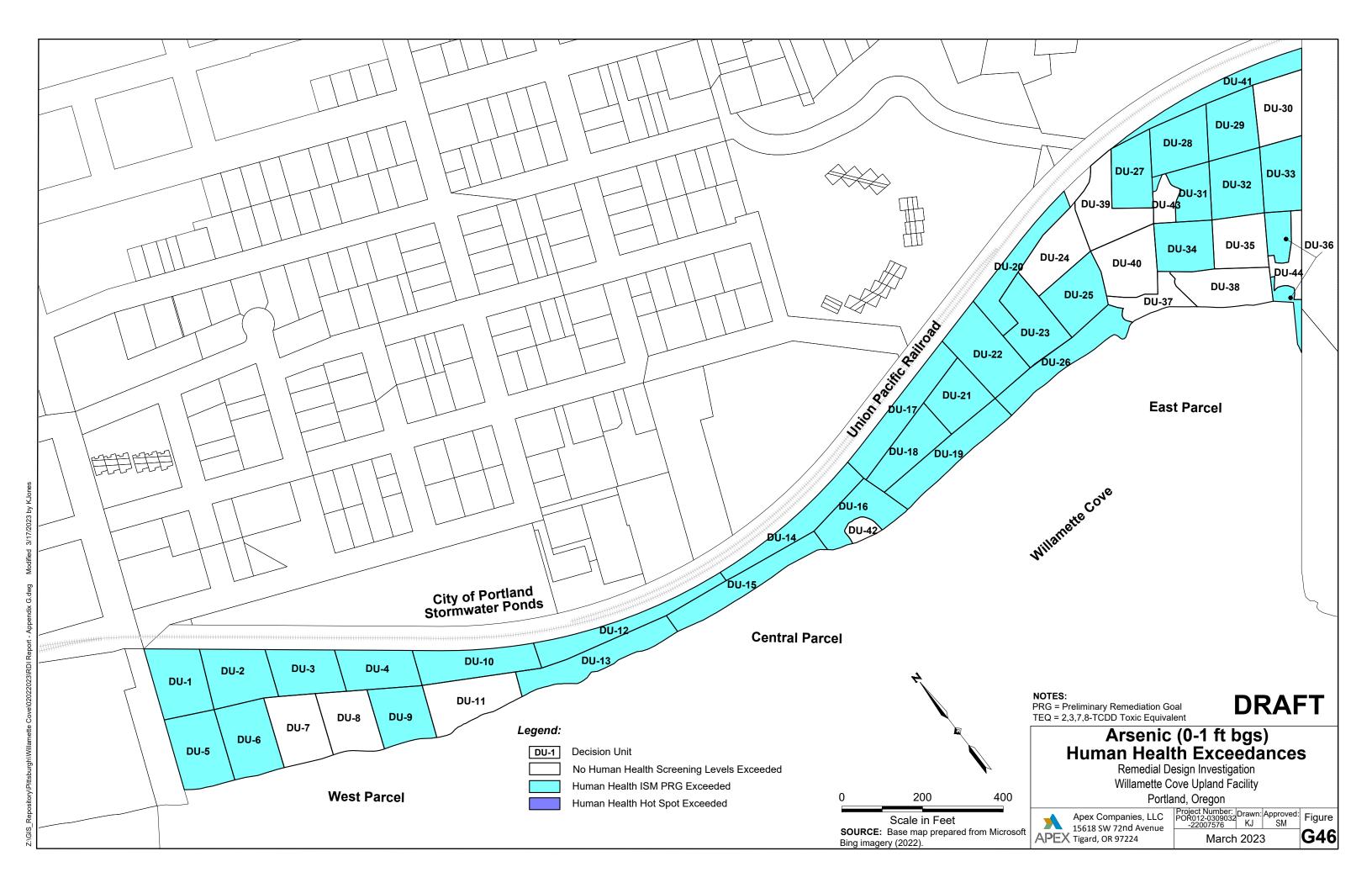


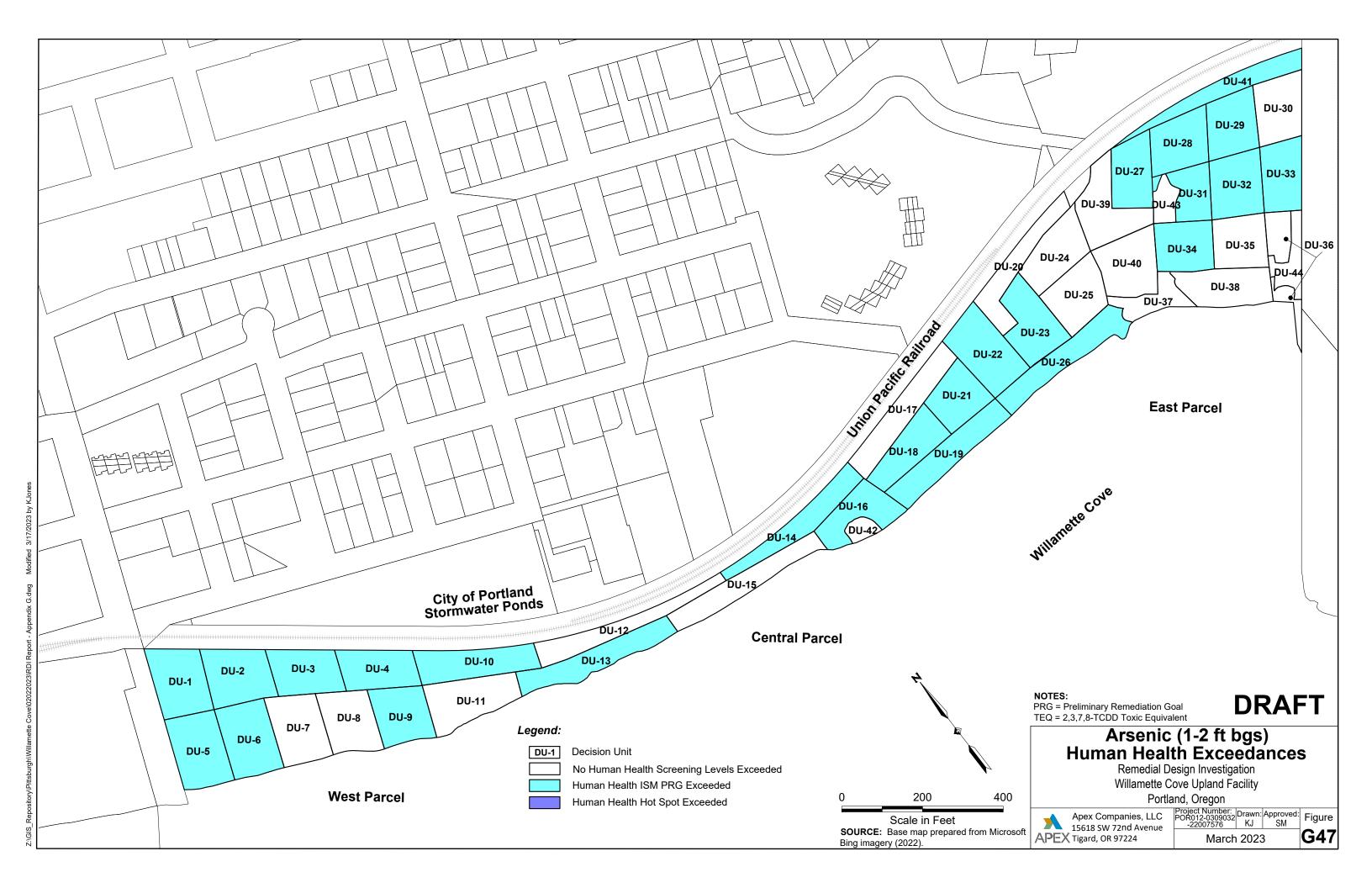


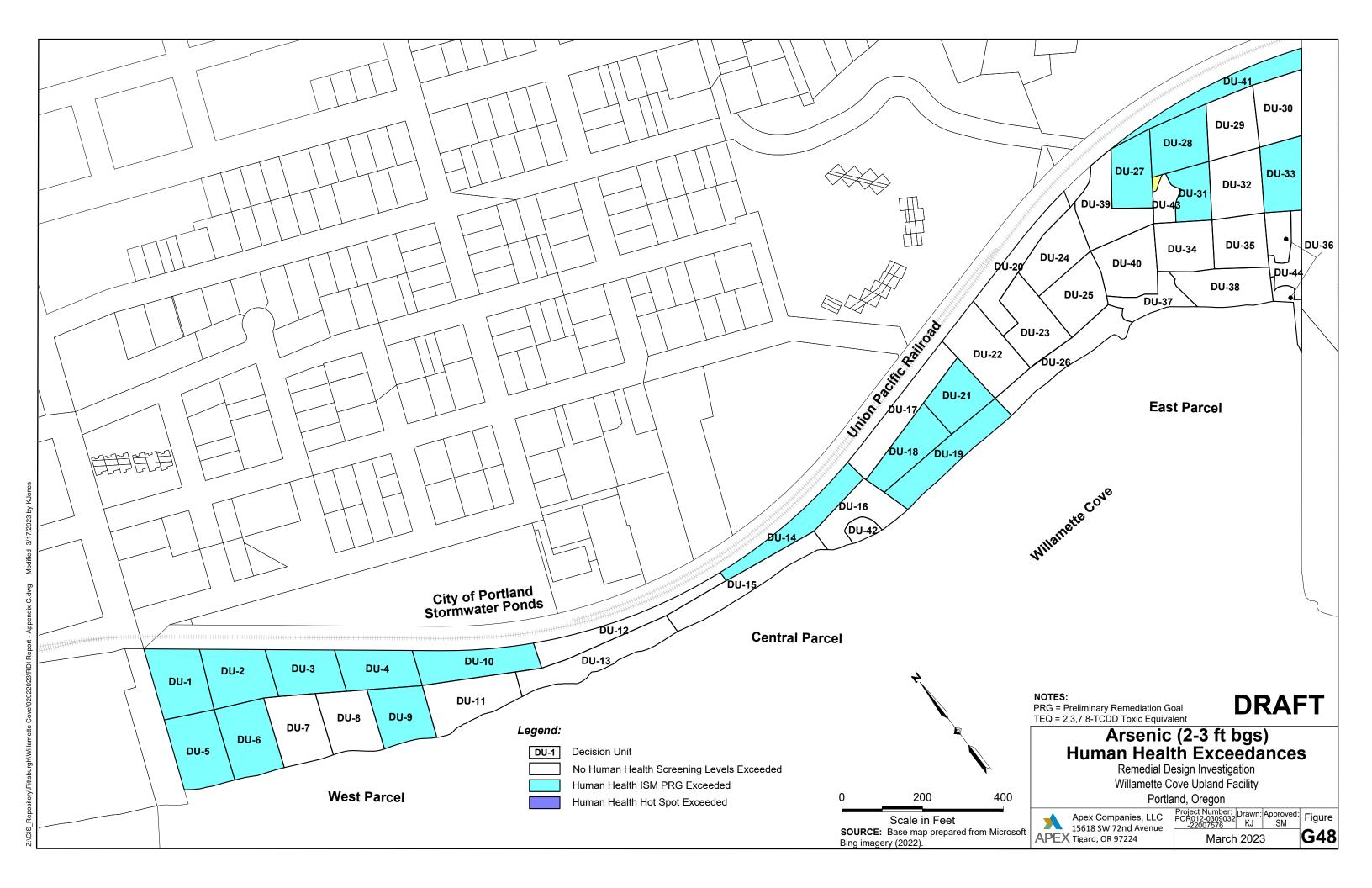


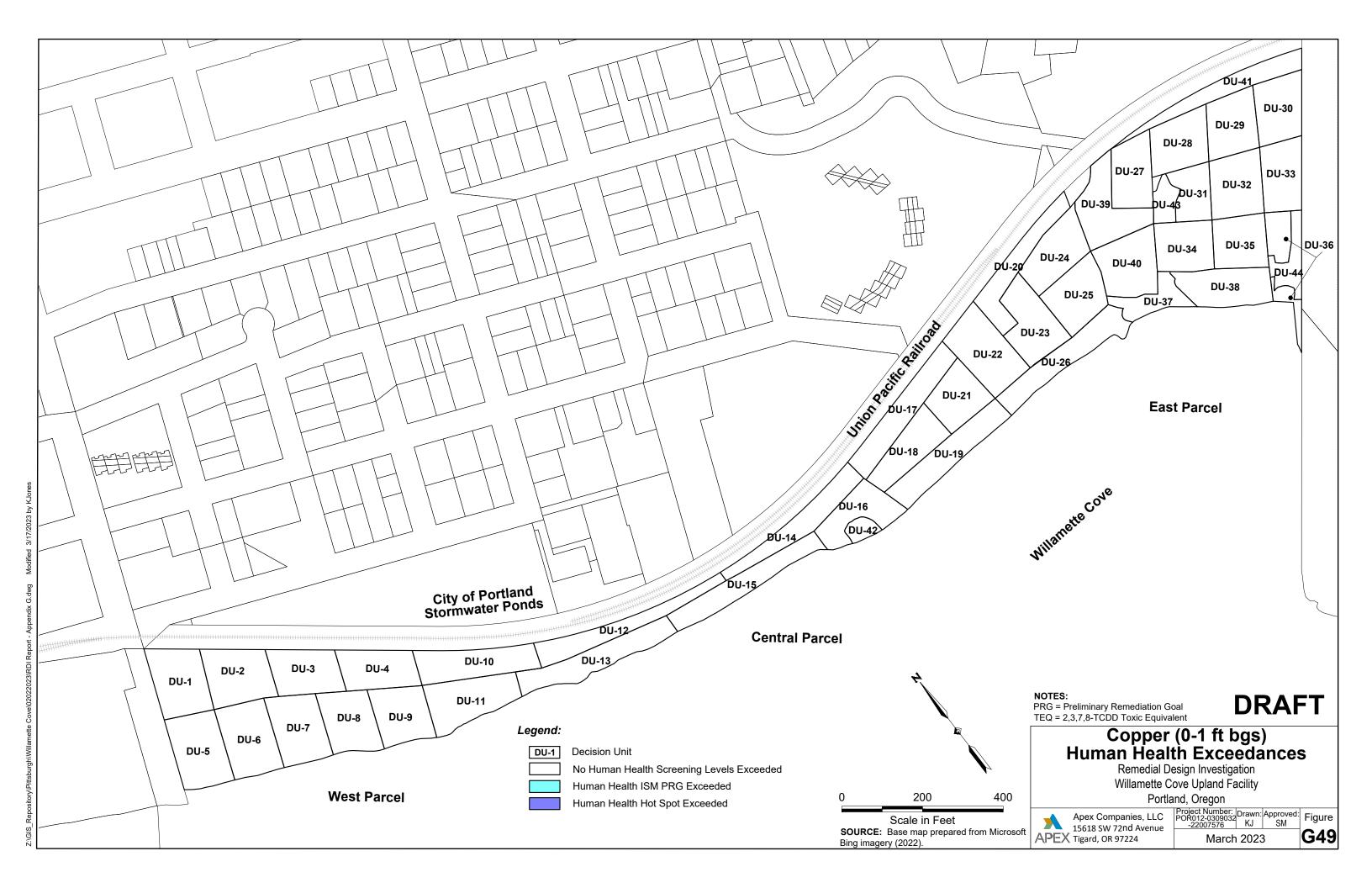


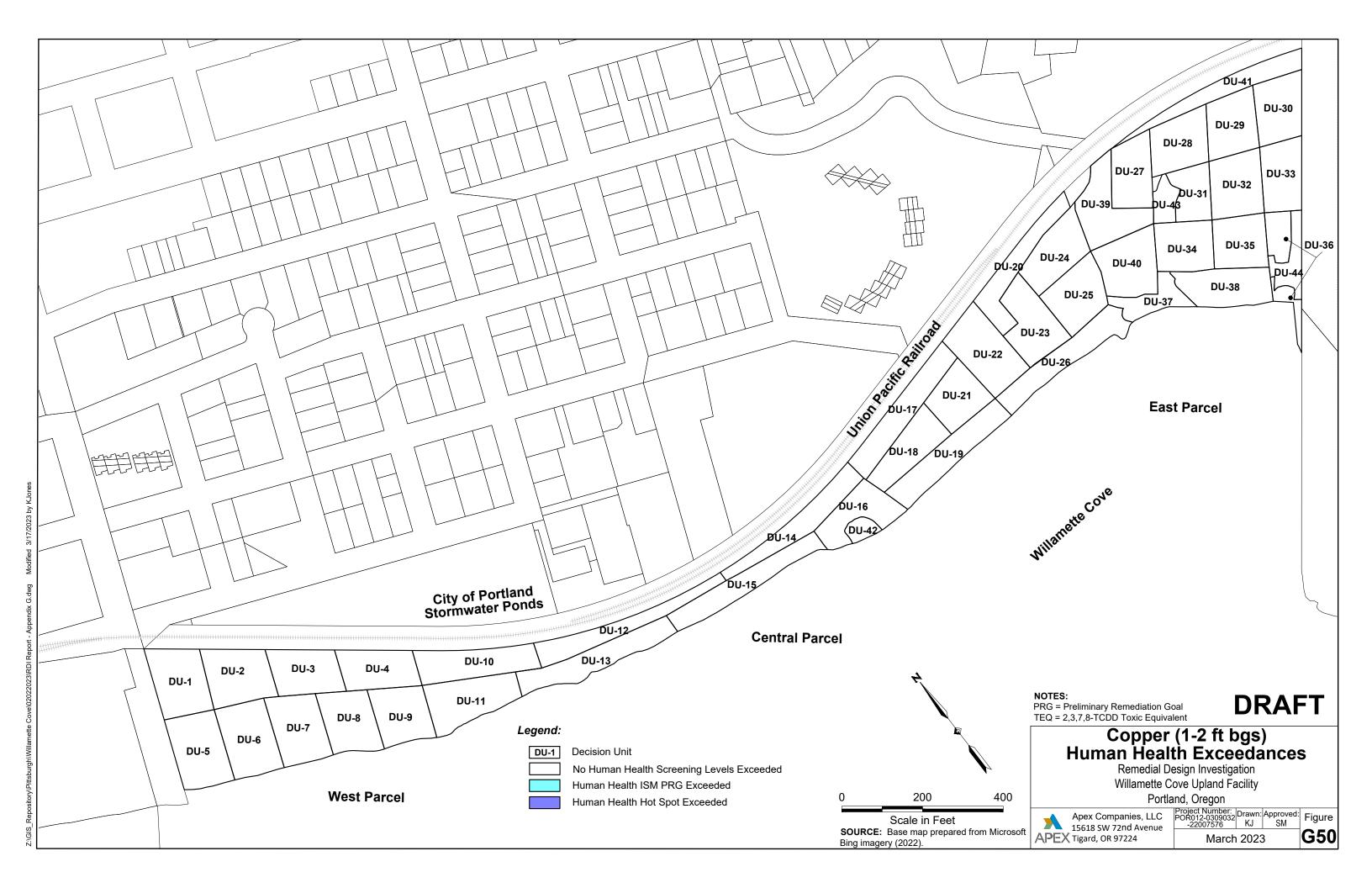


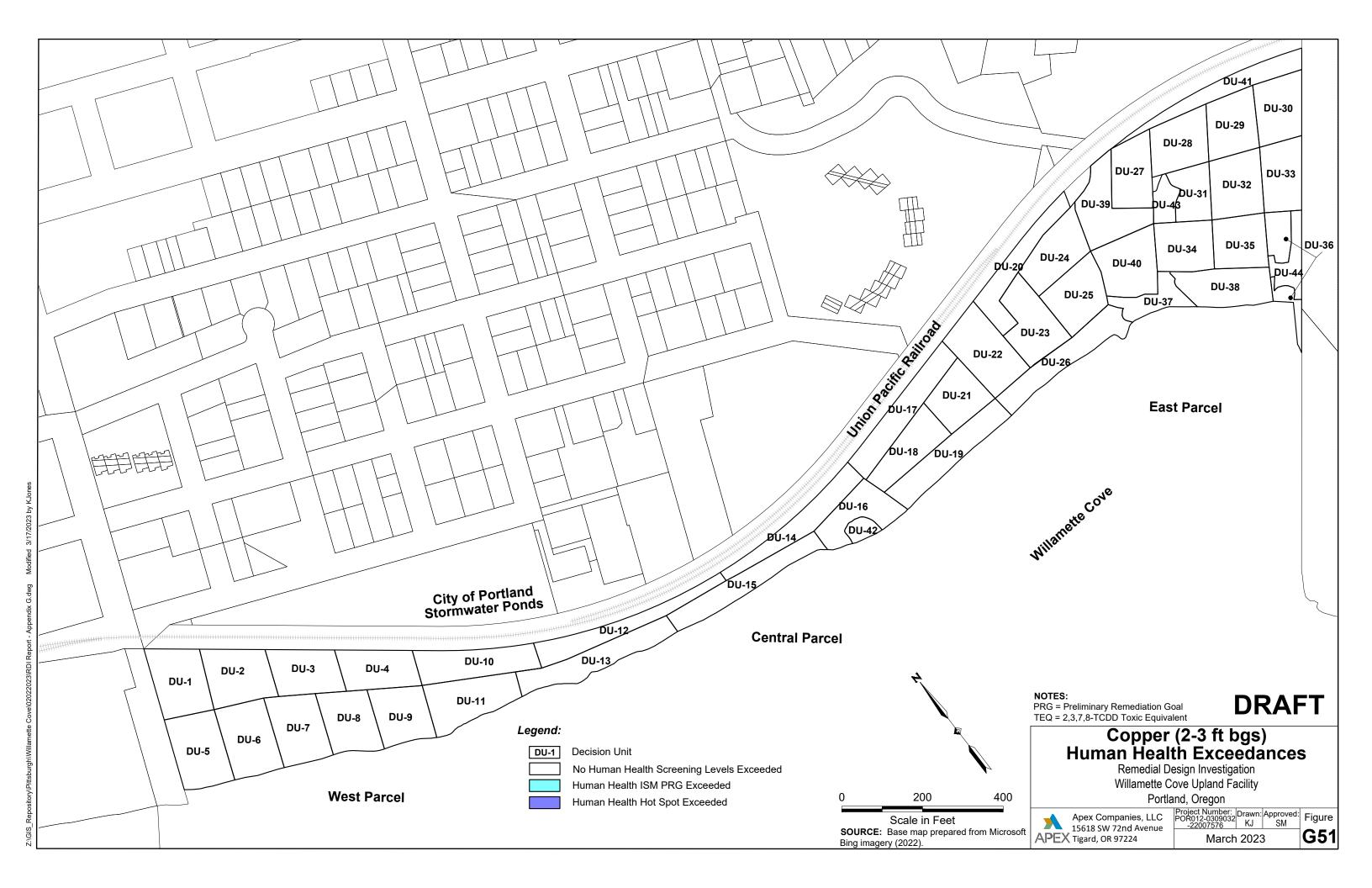


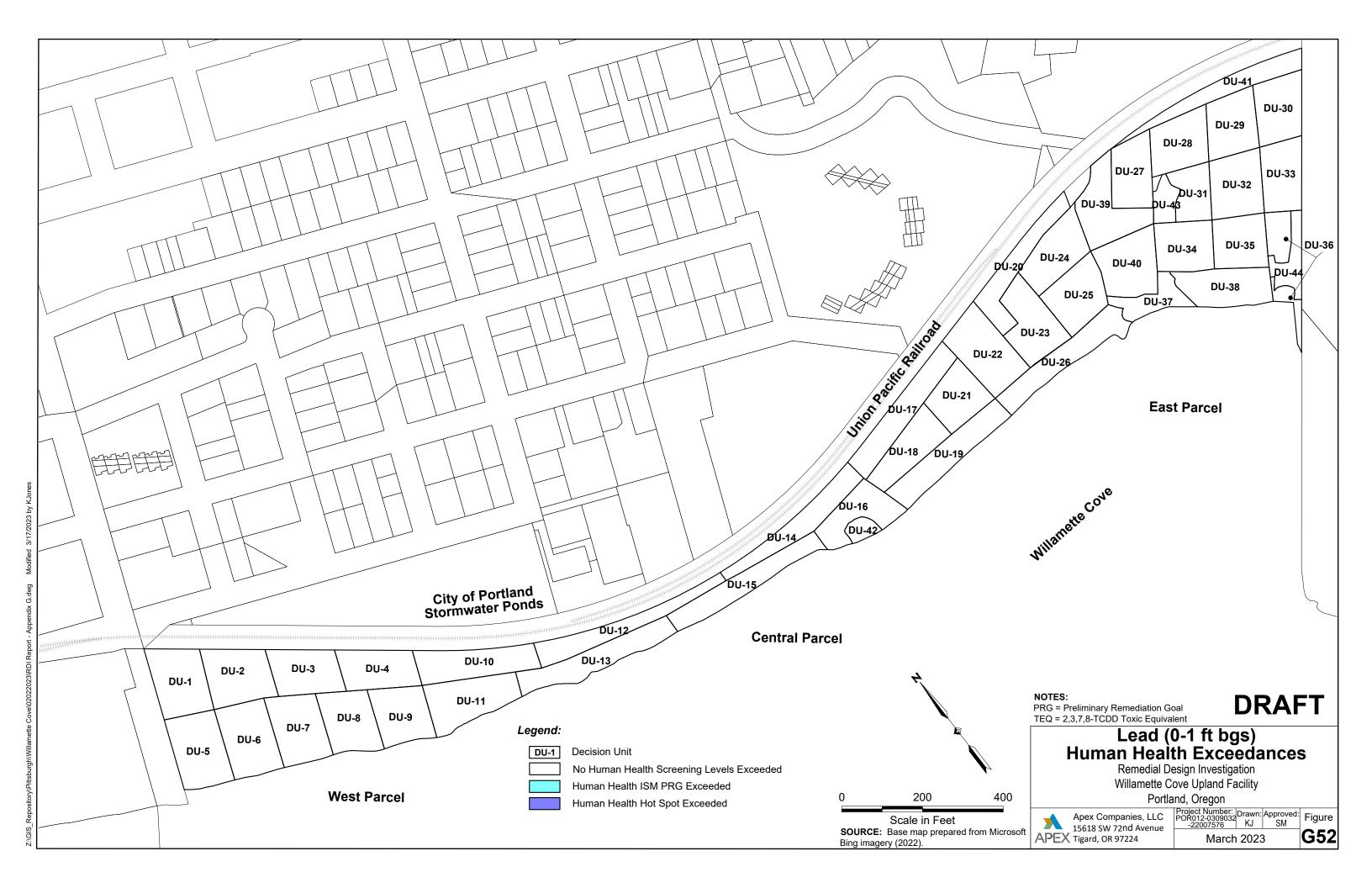


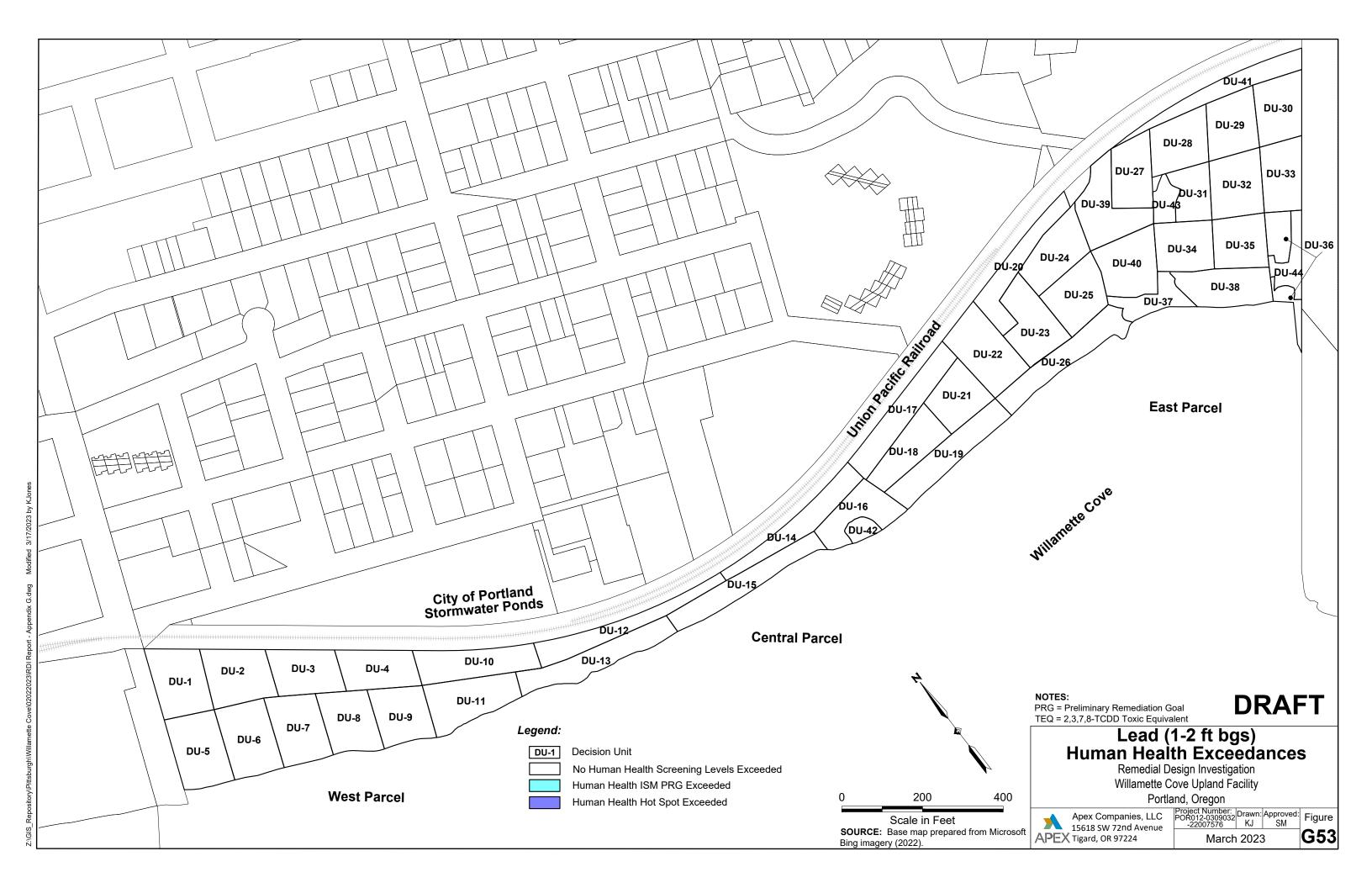


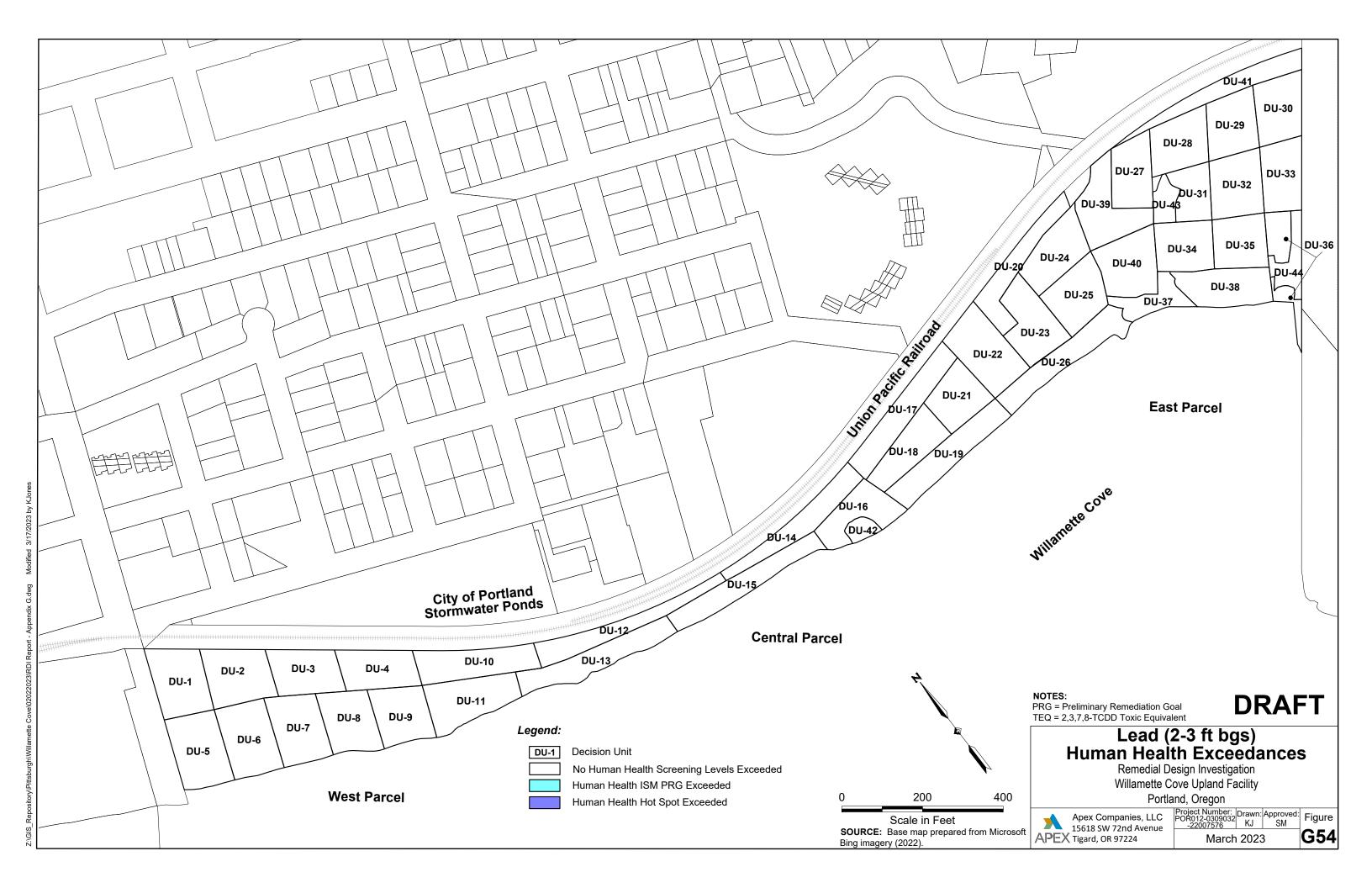


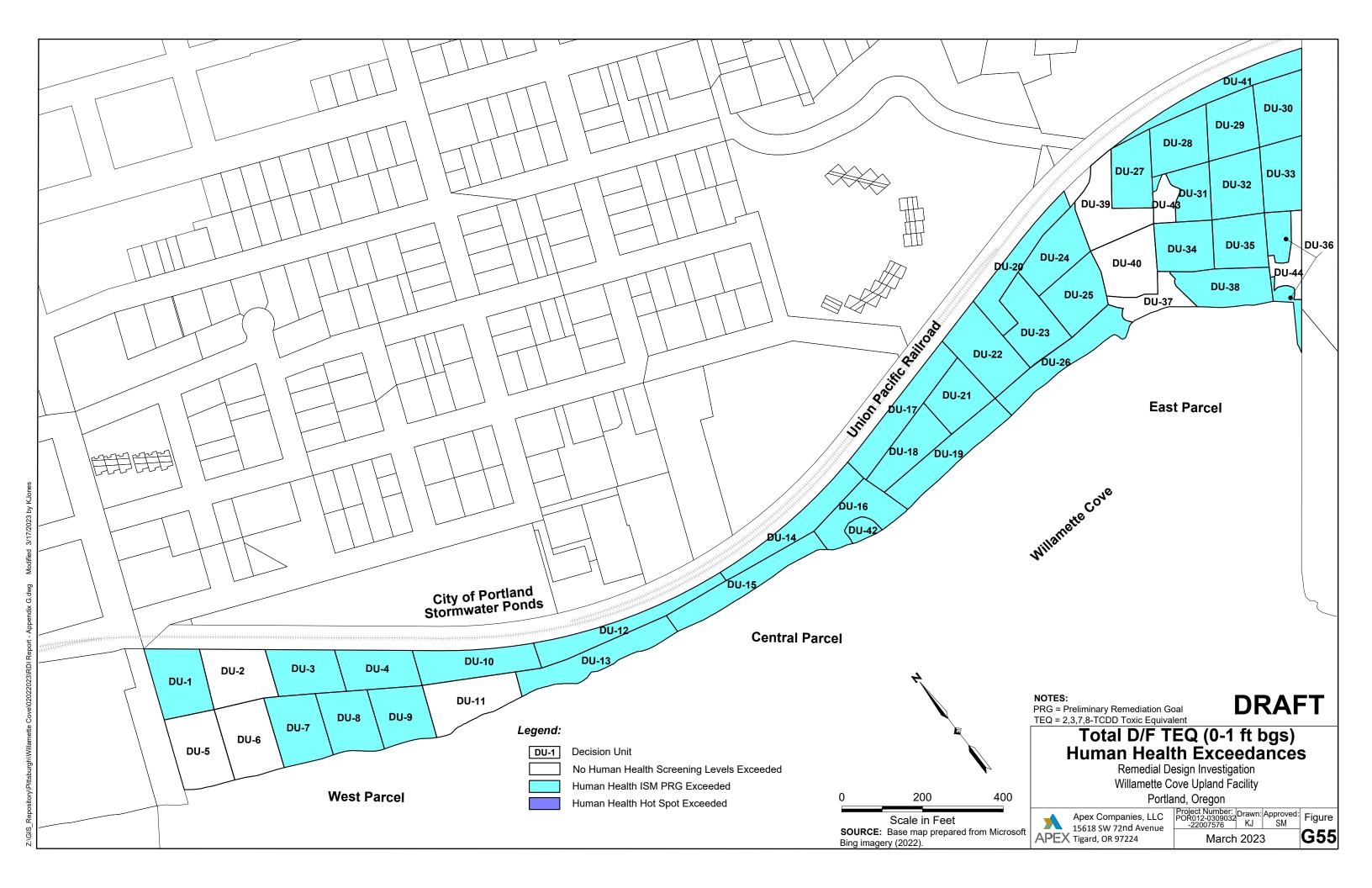


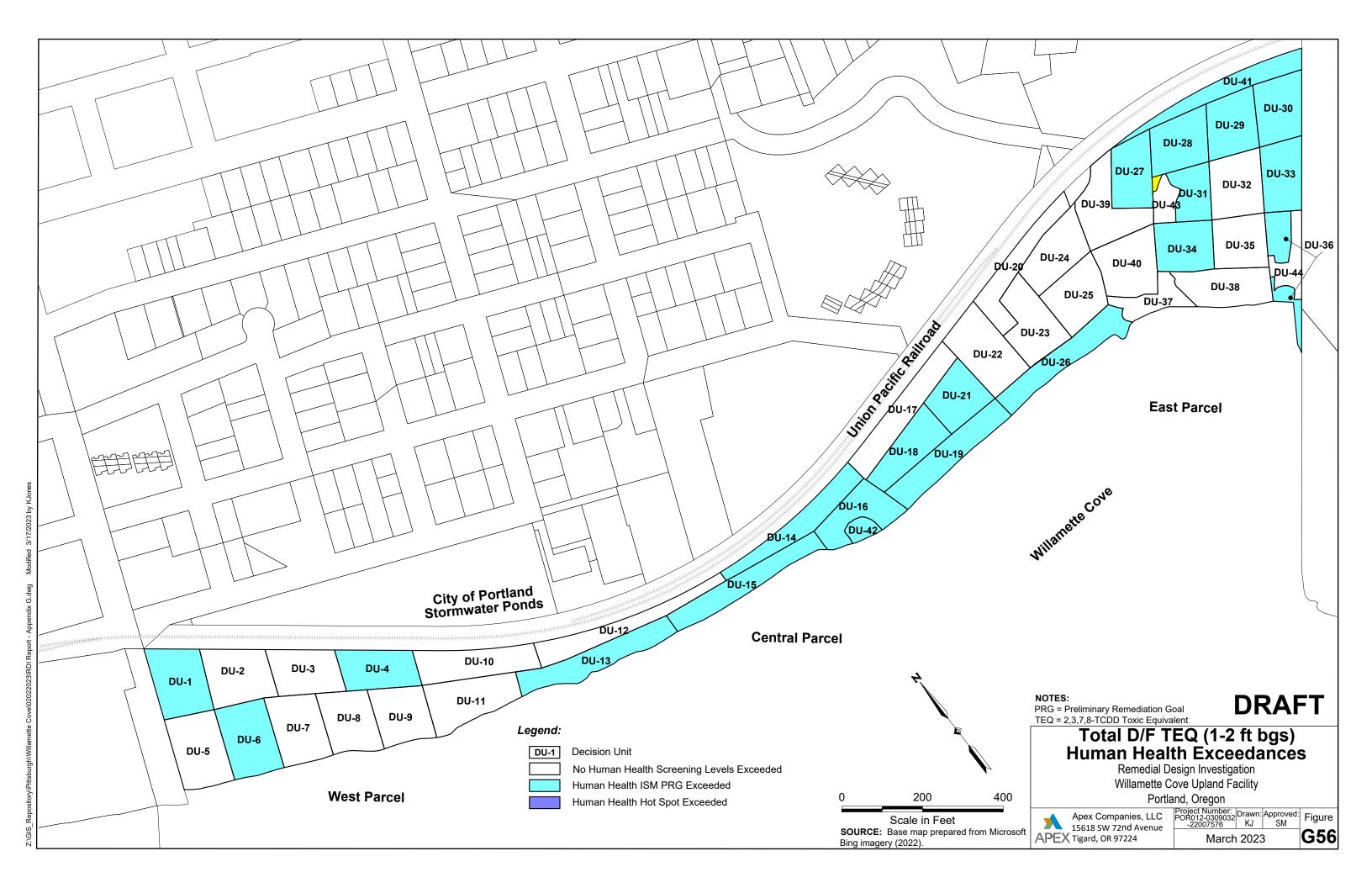


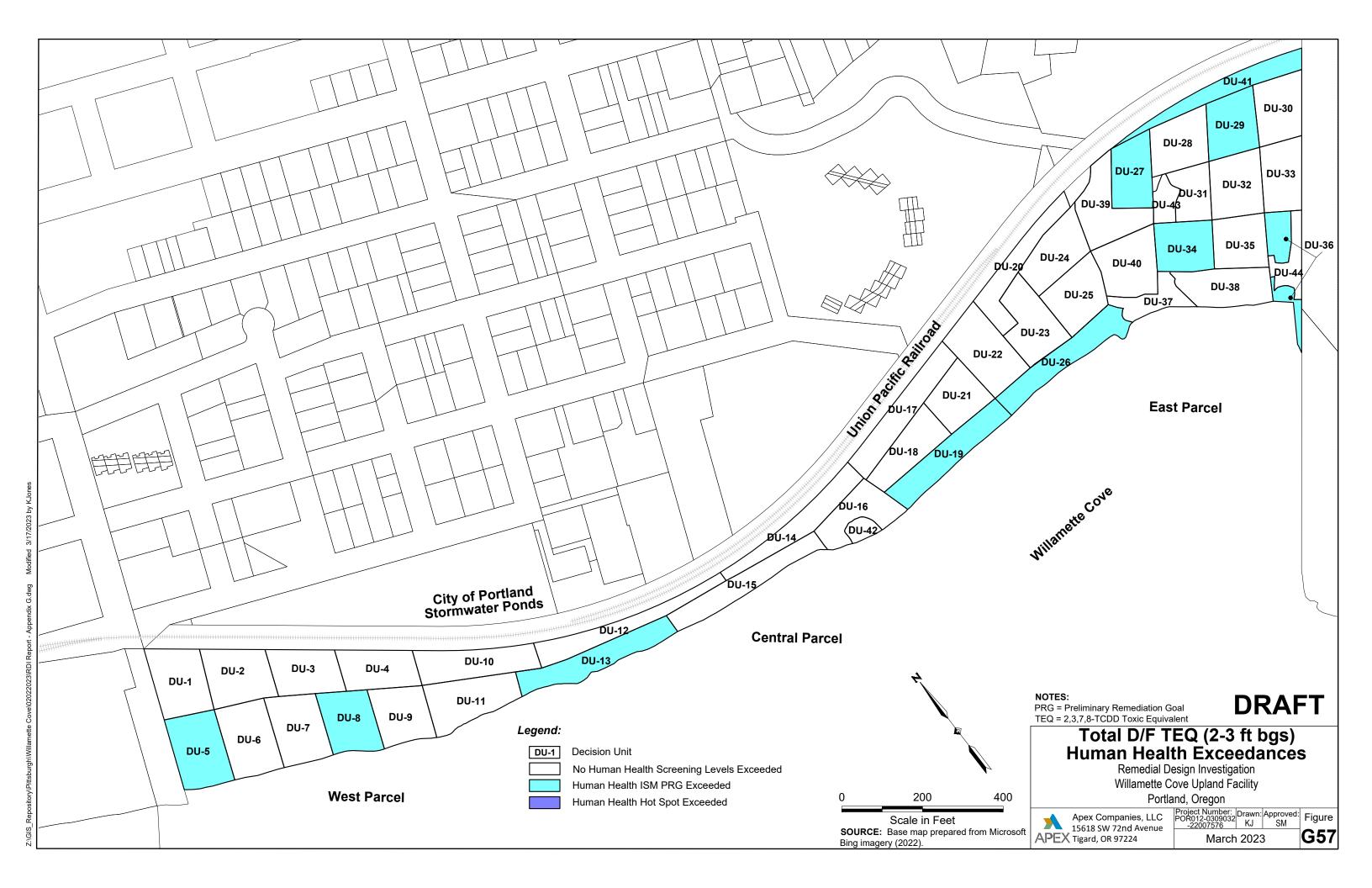


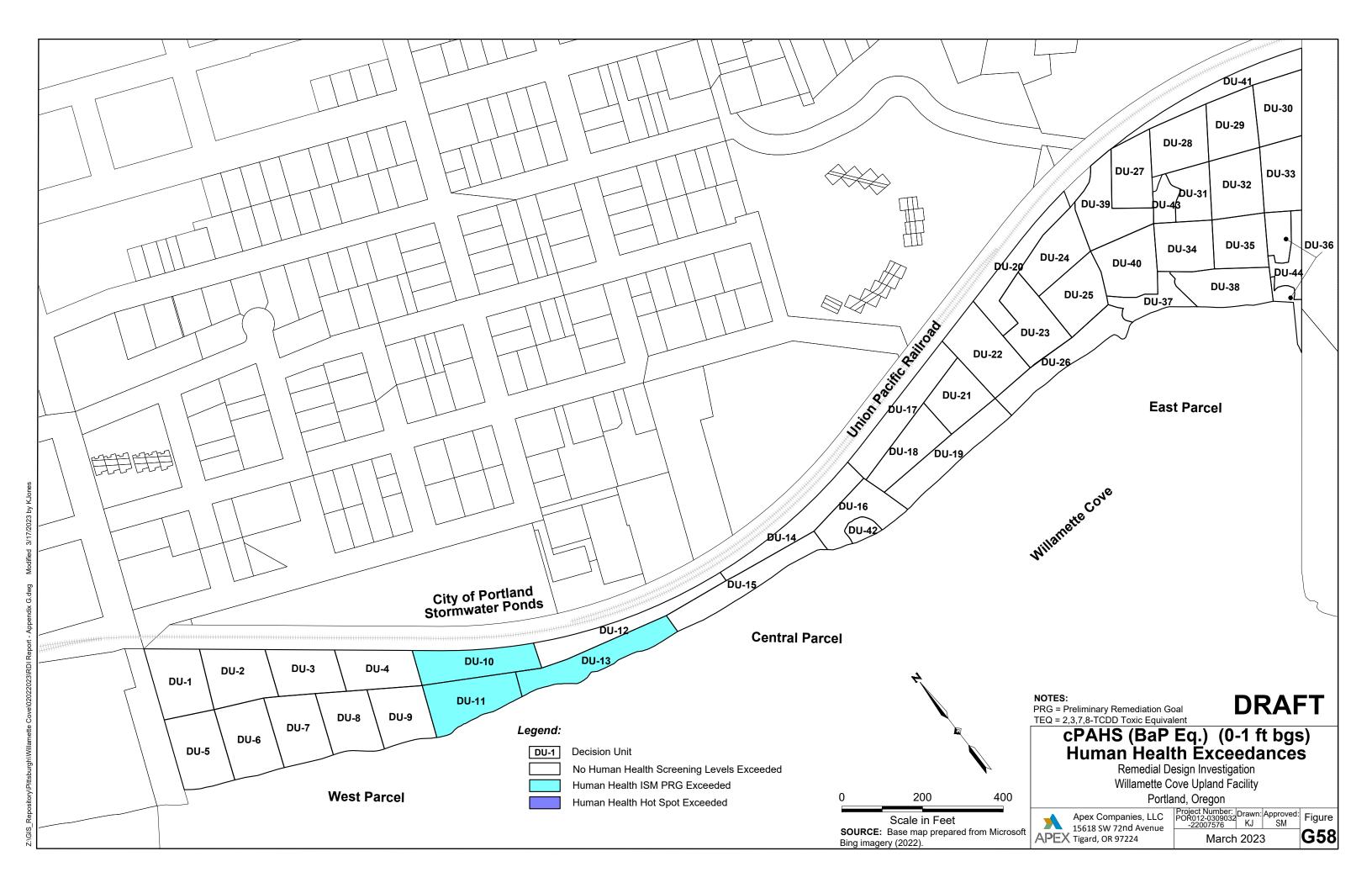


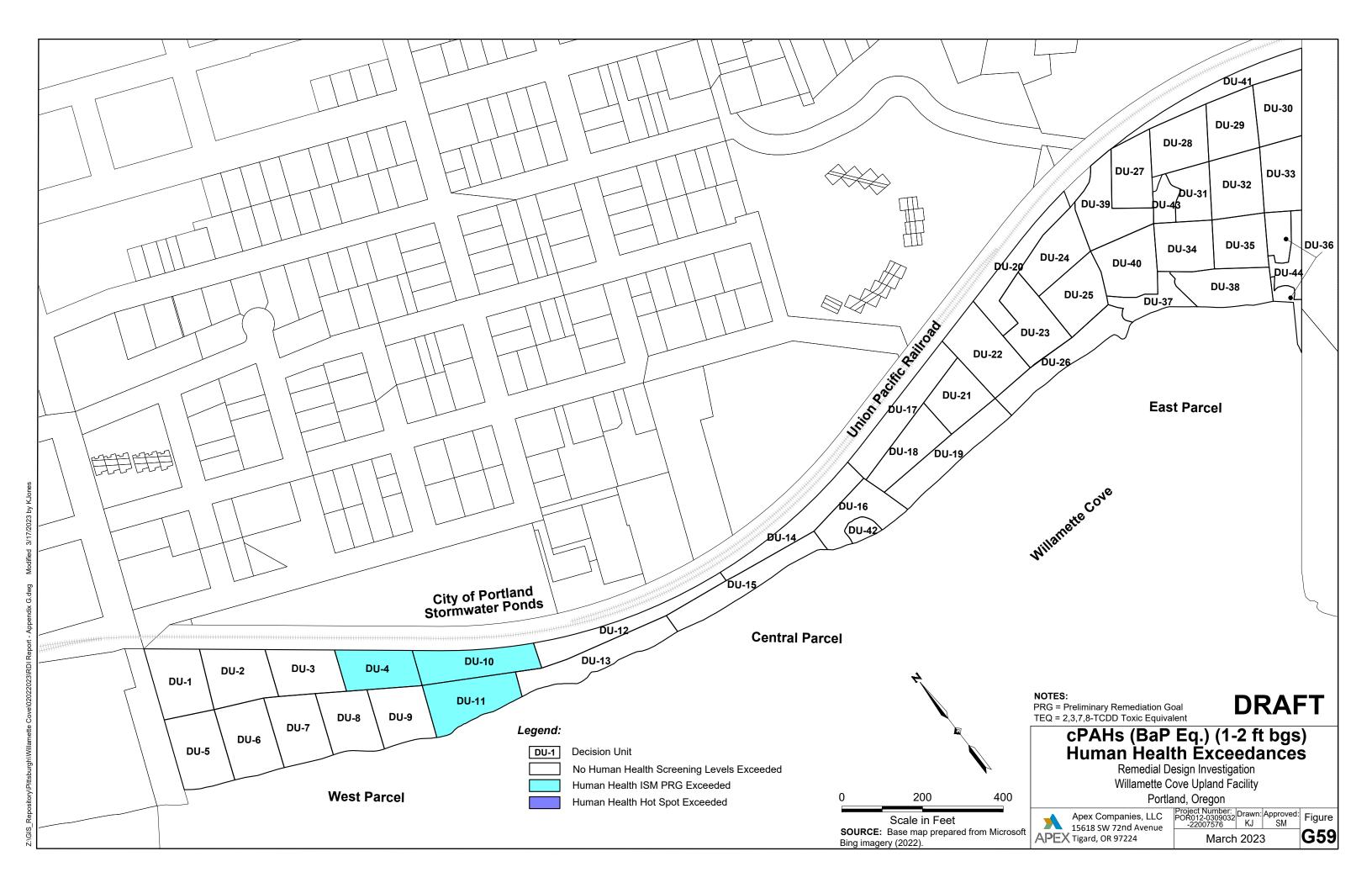


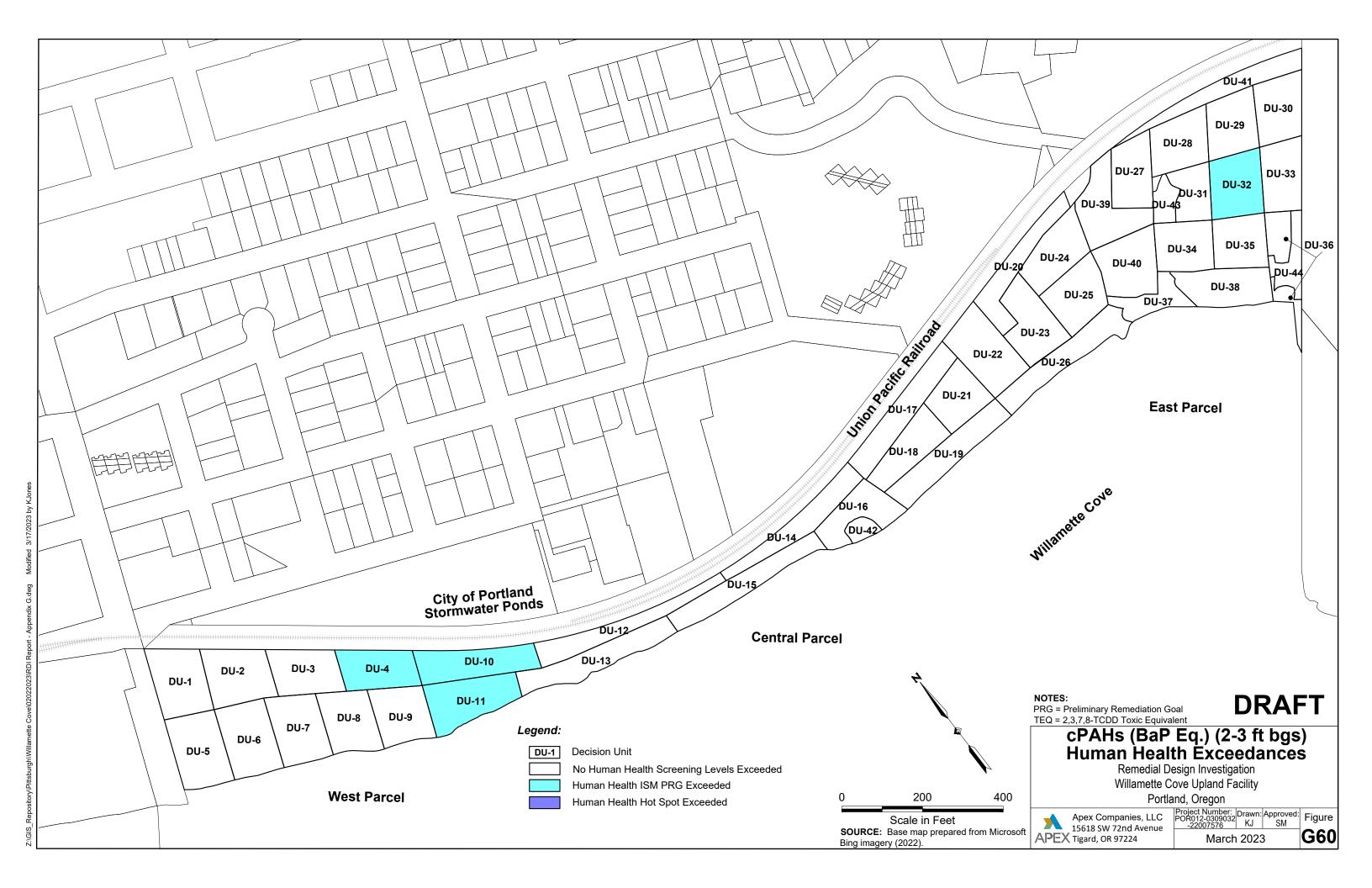


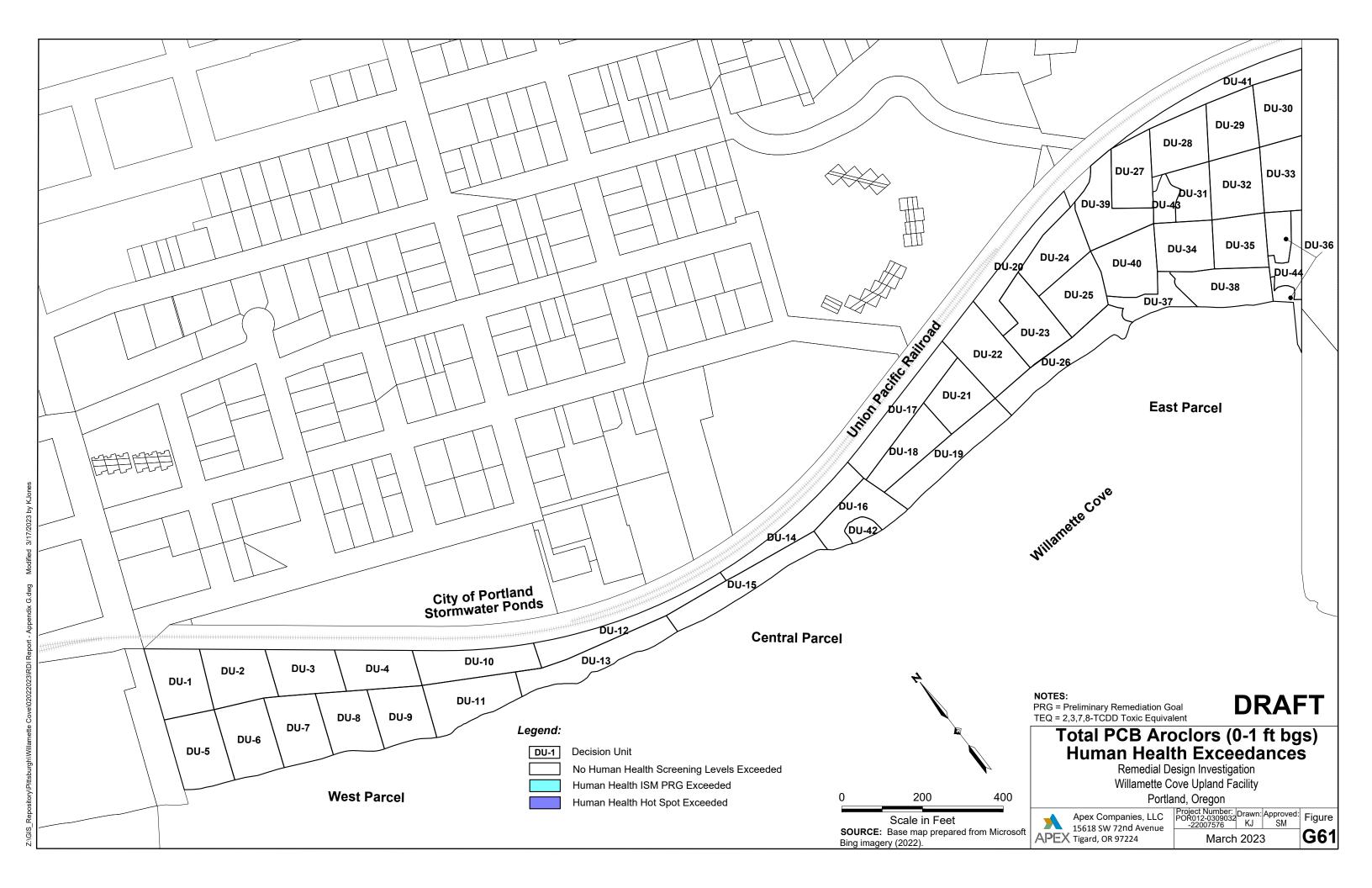


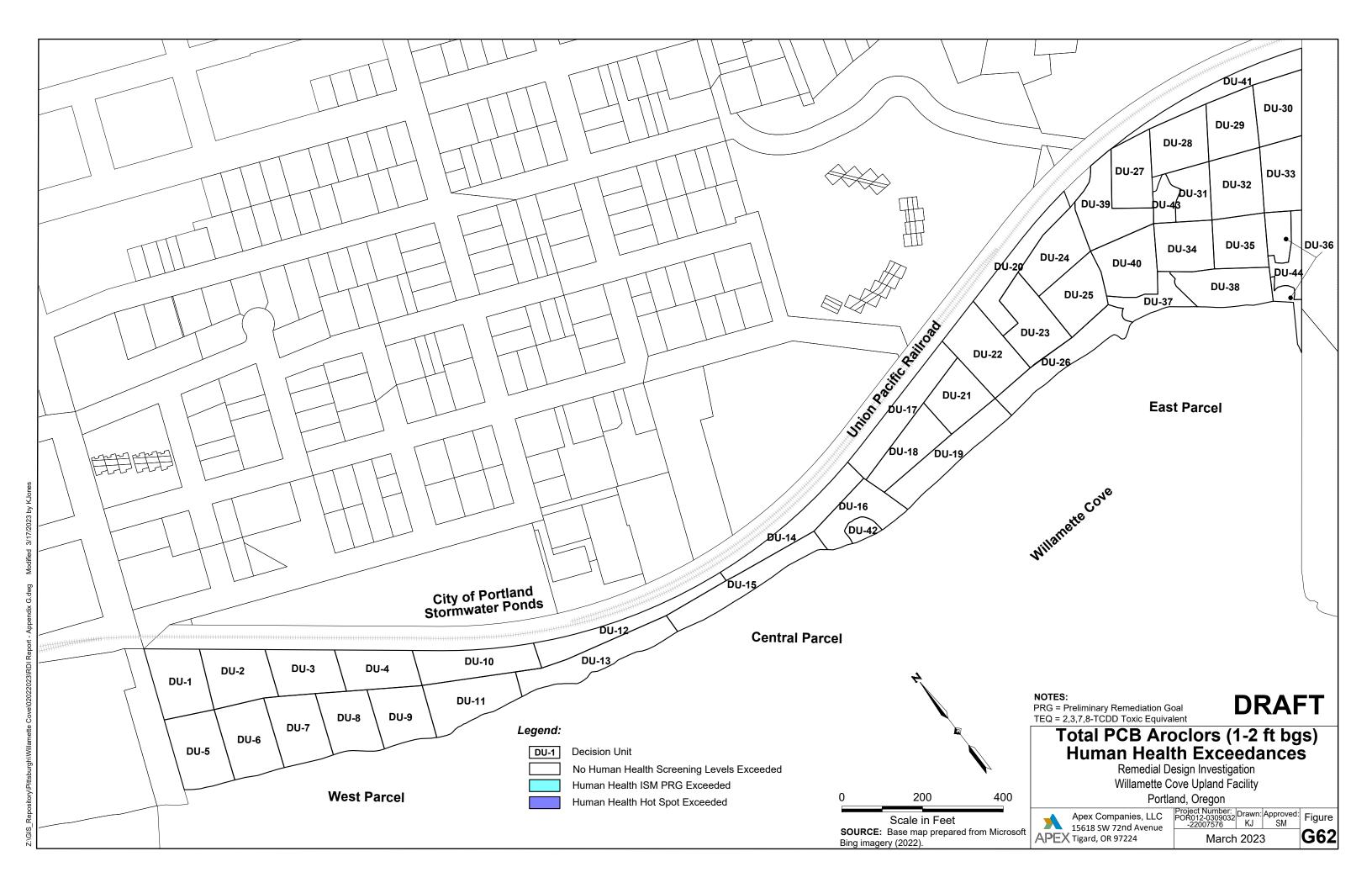


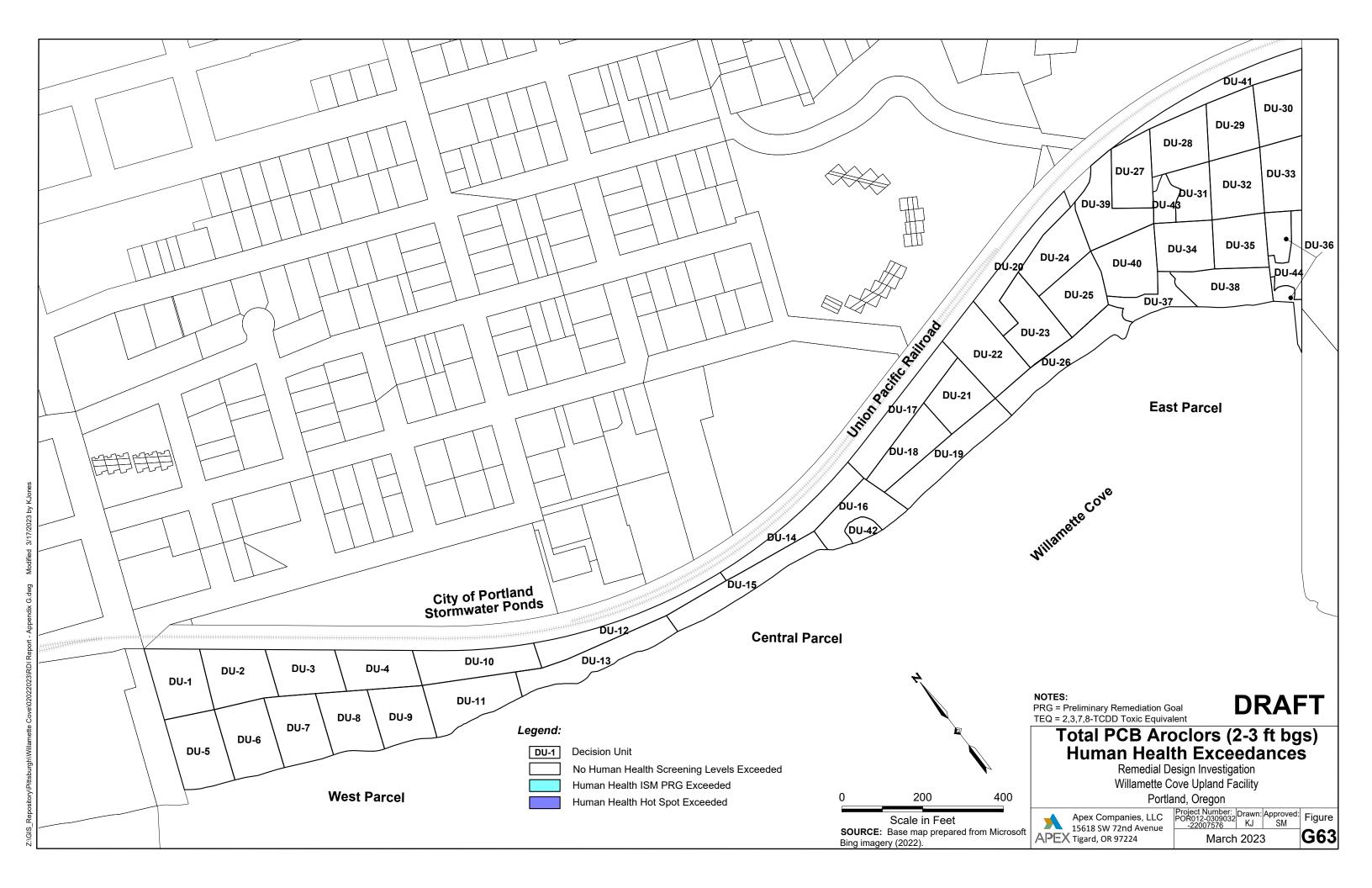


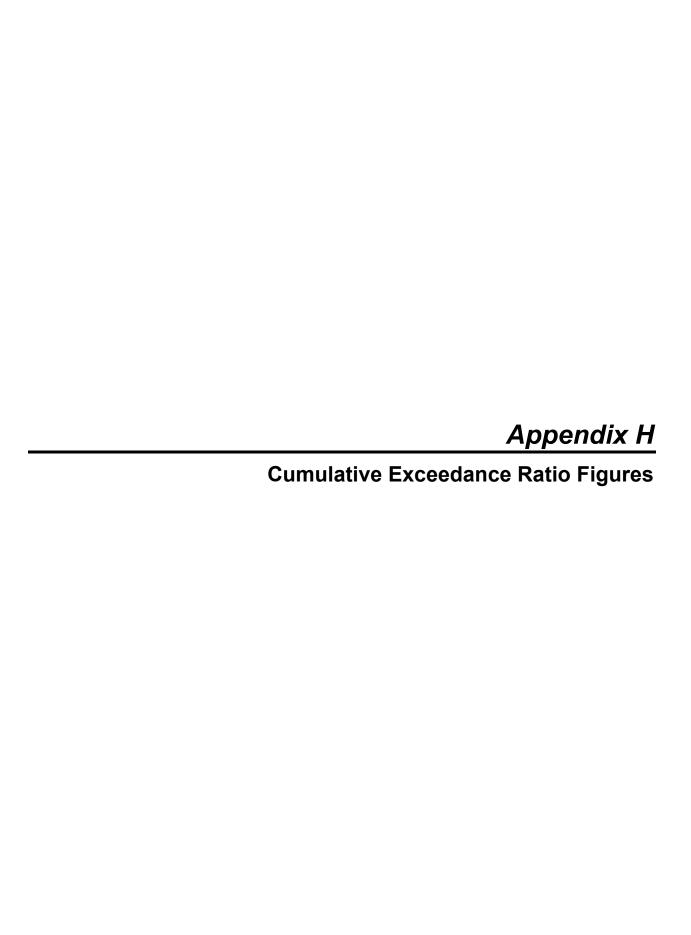


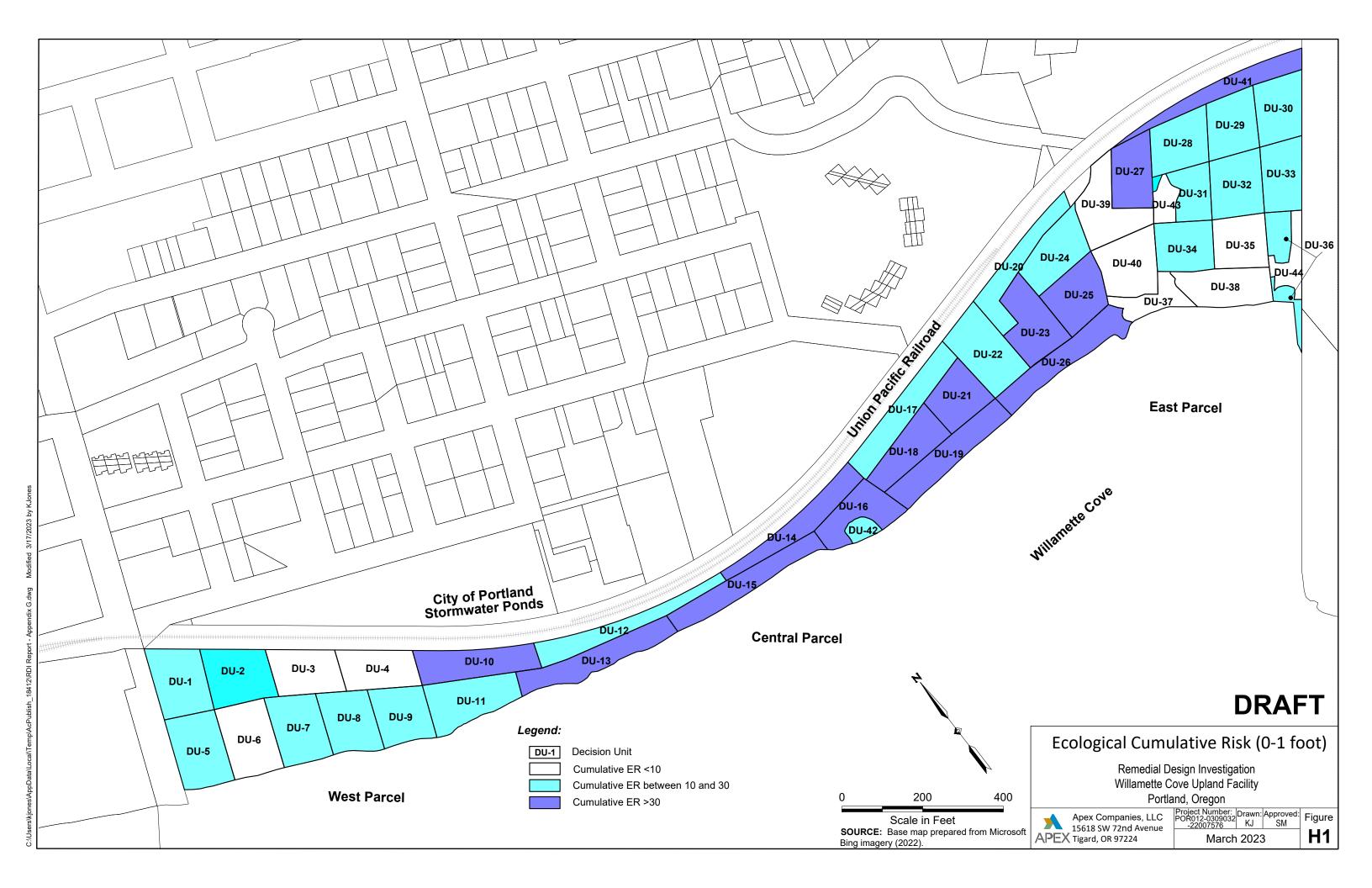


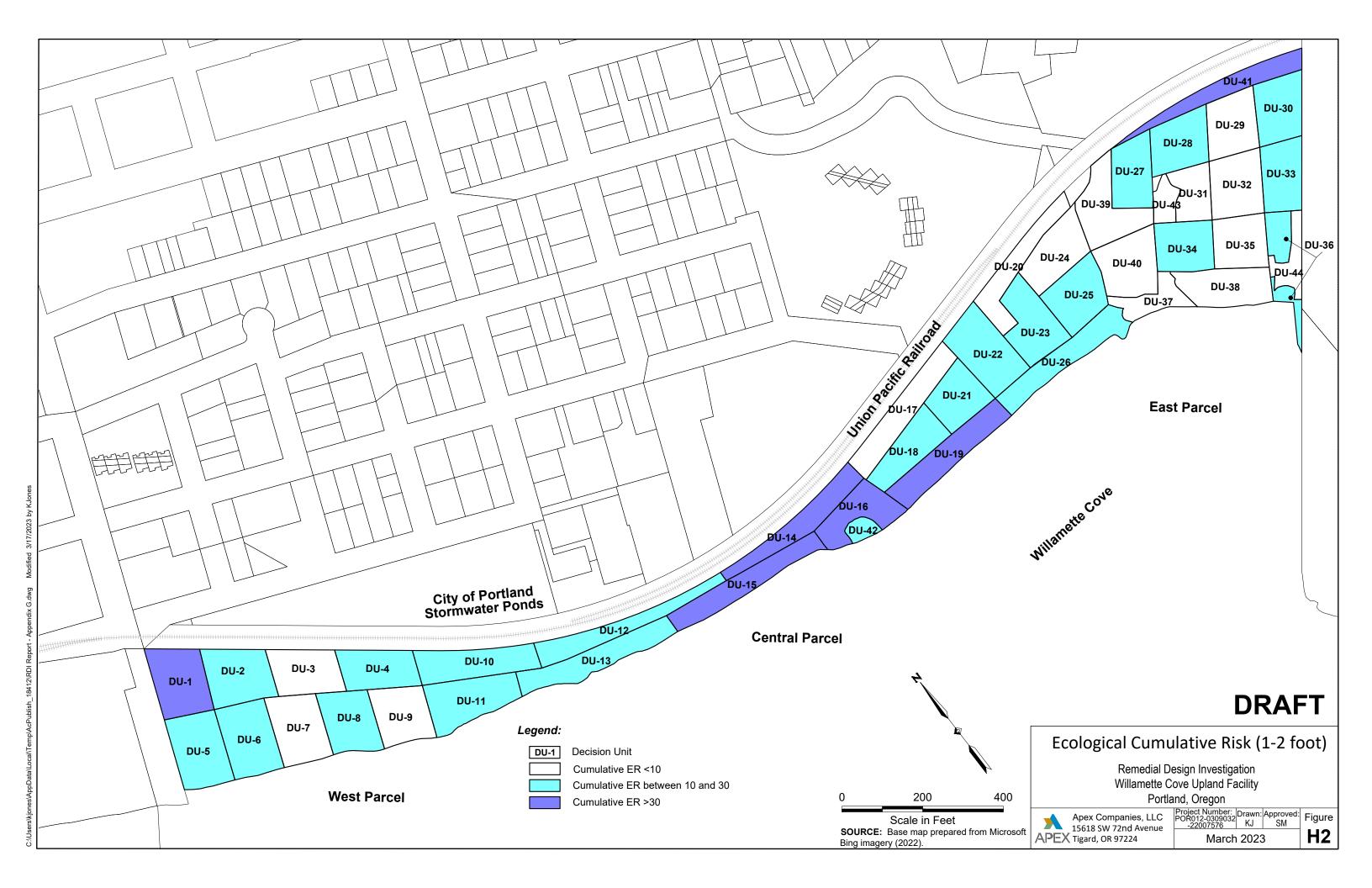


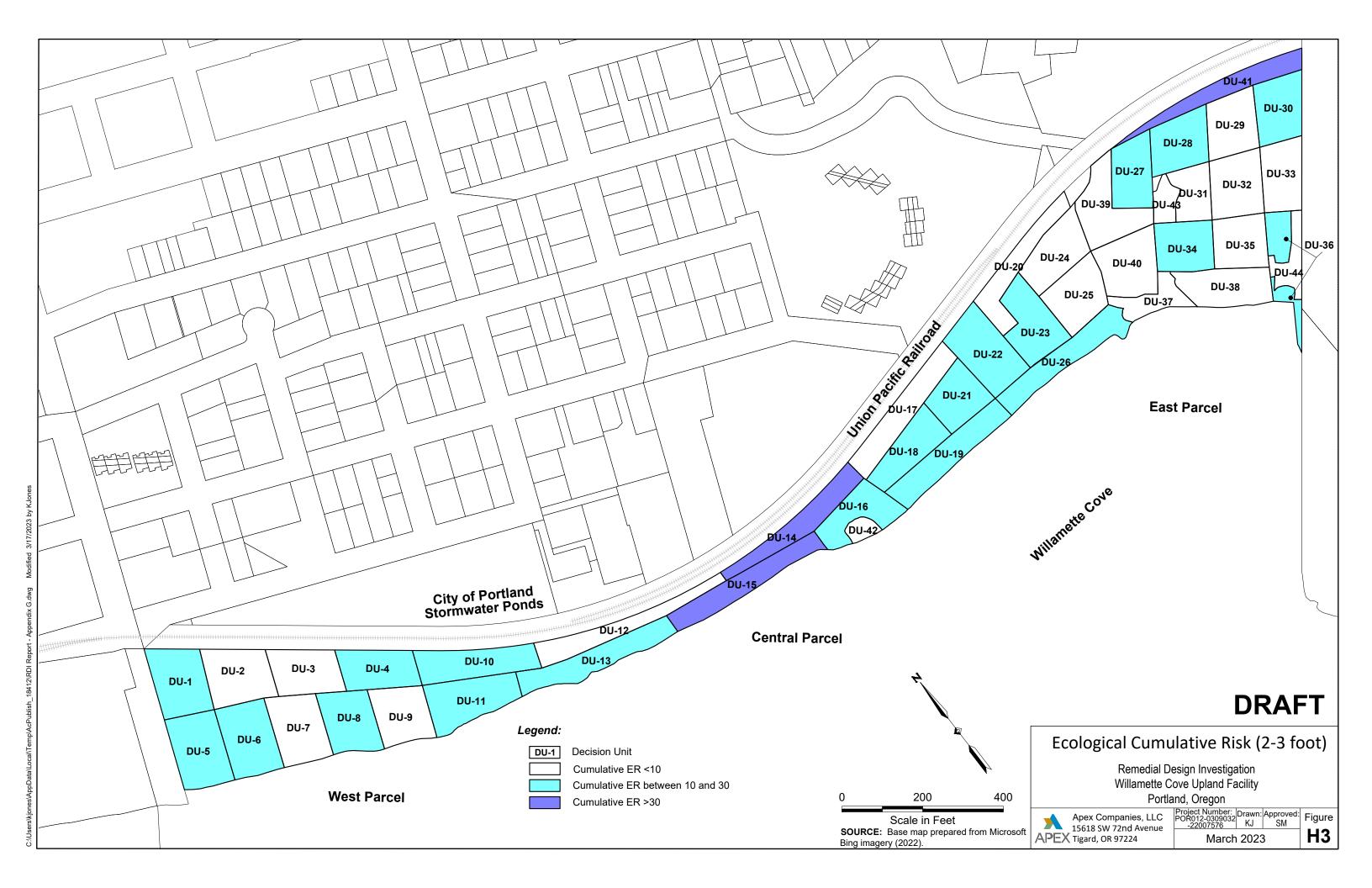


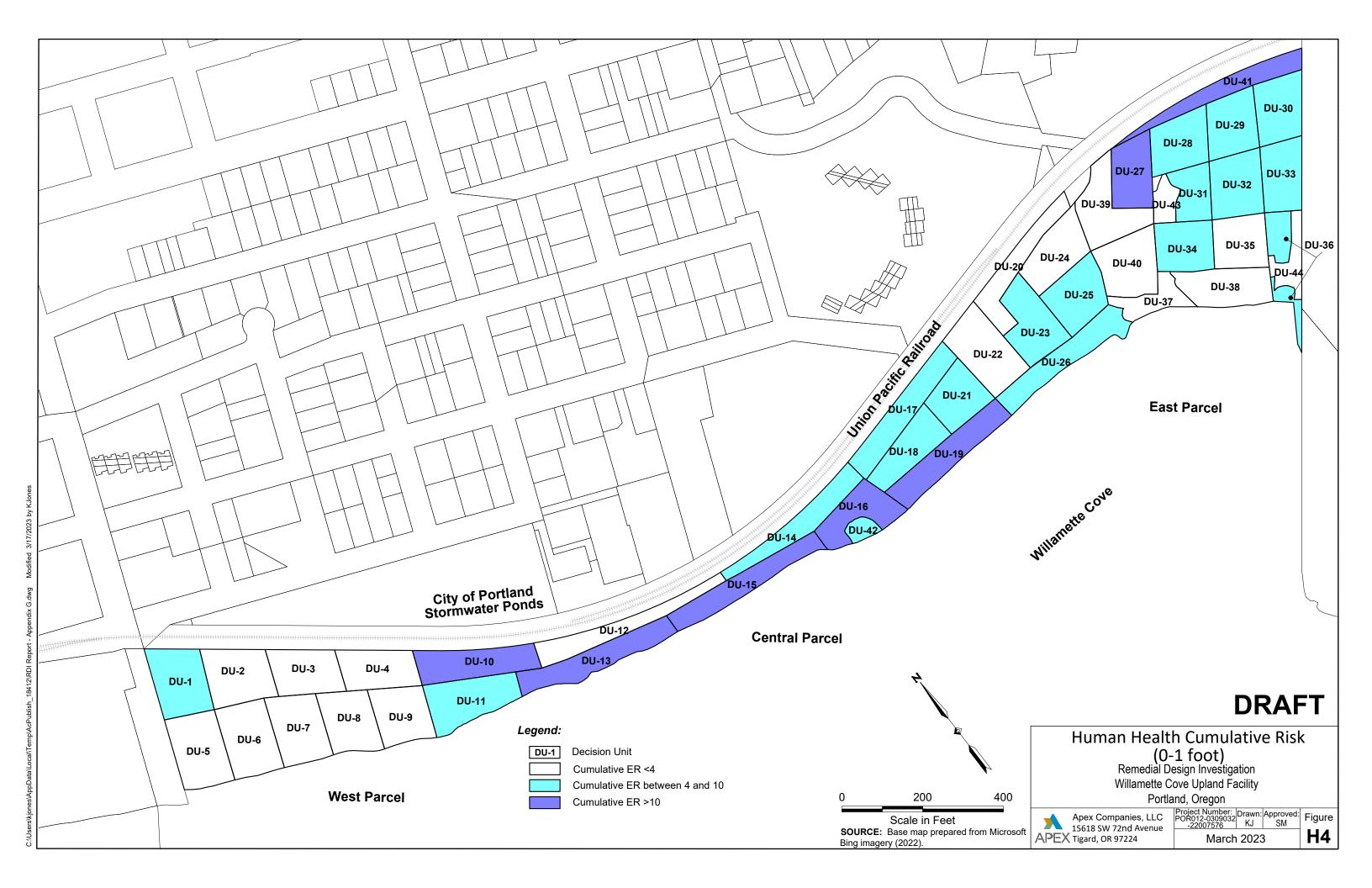


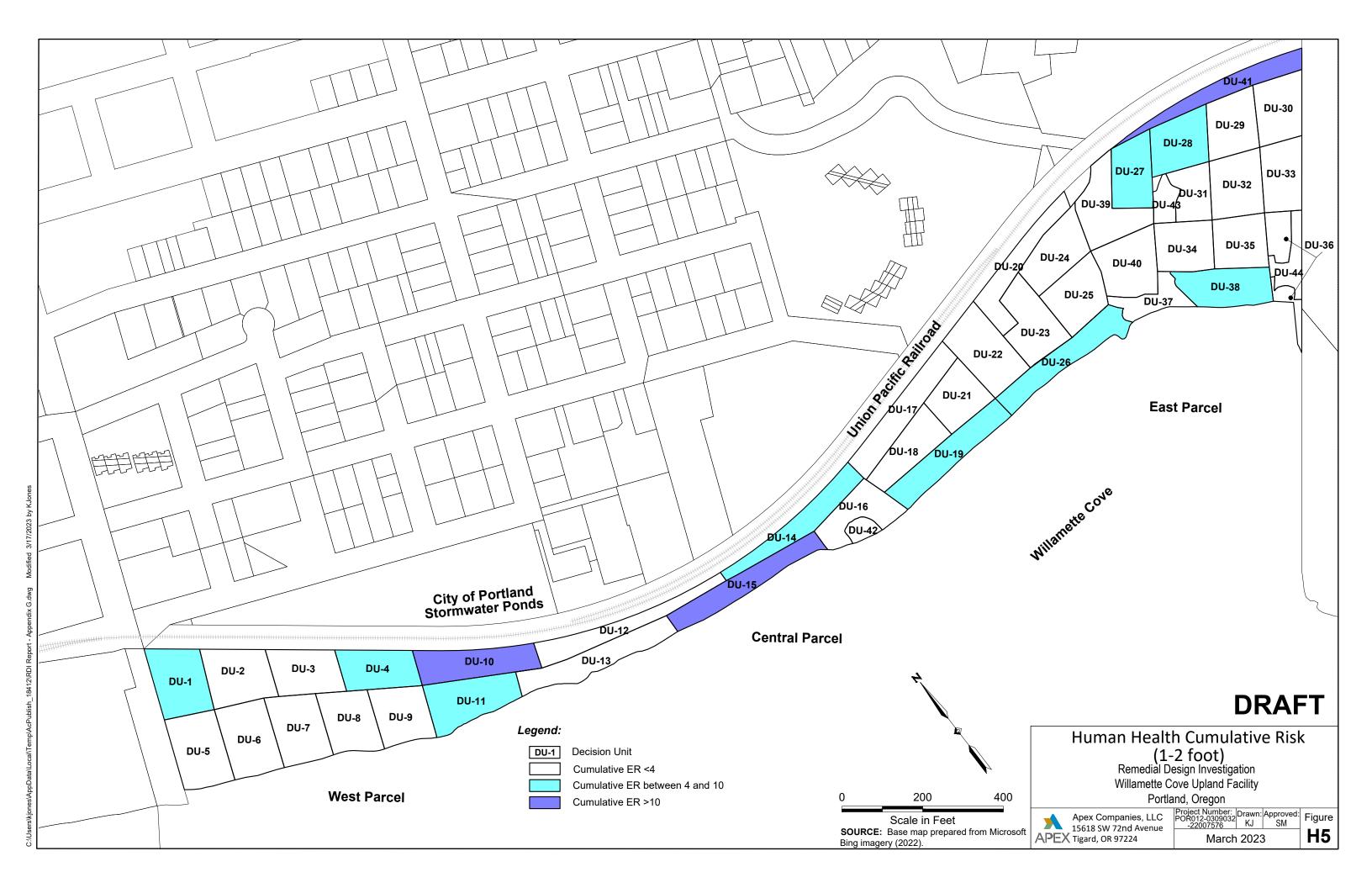


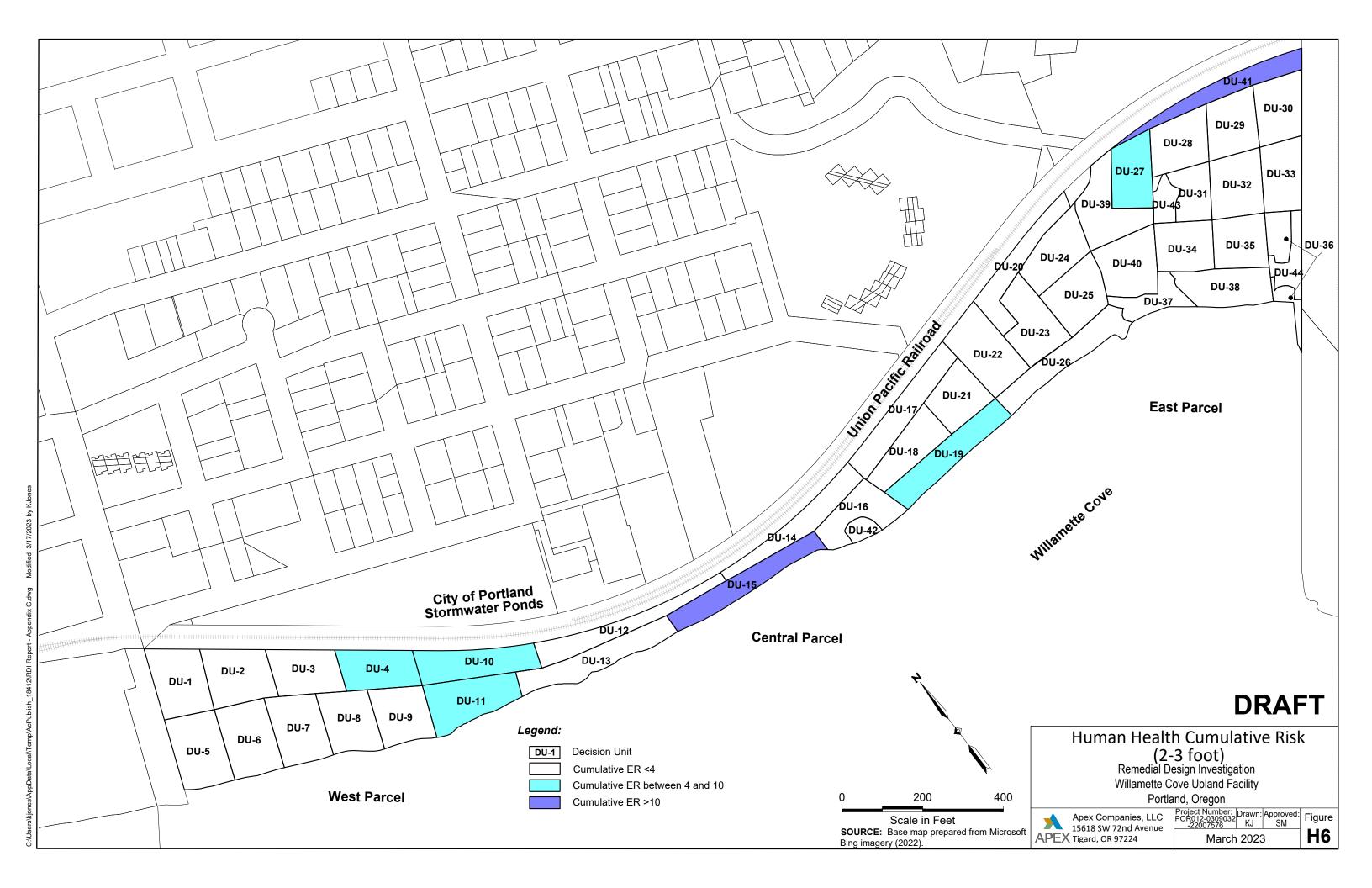


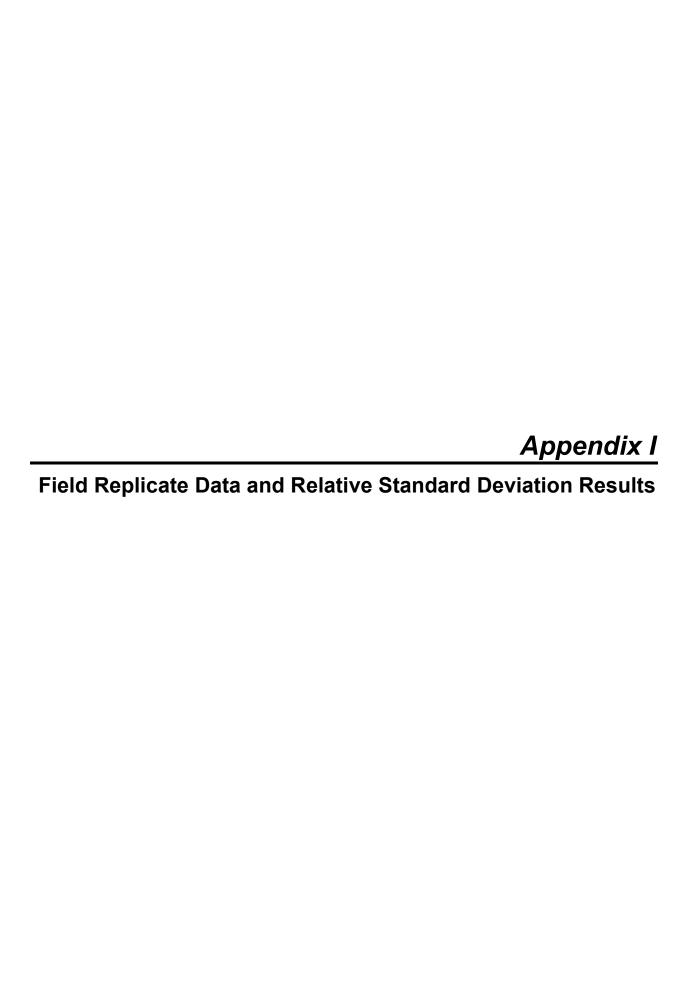












									Metals	by EPA Method	6020B			
Parcel	Decision	Sample	Sample	Sample ID	Commis Data				Со	ncentrations in mg/	/kg			
Parcei	Unit	Type	Depth (feet bgs)	Sample ID	Sample Date	Antimony	Arsenic	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Zinc
			0-1	DU-5 (0-1)A	7/22/2022	0.992 J-	8.89	52.3	344	62.1 J	0.110	31.9 J	0.369 J	191
			0-1 FR	DU-5 (0-1)B	7/22/2022	0.853	8.98	46.2	303	50.8	0.104	31.2	0.341 J	211
			0-1 FR	DU-5 (0-1)C	7/22/2022	0.944	8.43	50.6	308	57.2	0.352	32.6	0.316 J	197
				Mea	n Concentration	0.930 J	8.77	49.7	318	56.7 J	0.189 J	31.9 J	0.342 J	200
					RSD	6.20%	2.75%	5.17%	5.74%	8.16%	61.2%	1.79%	6.33%	4.20%
					RSD Evaluation	Very Good	Poor	Very Good	Very Good	Very Good				
				,	It for DU-5 (0-1)	0.930 J	8.77	49.7	318	56.7 J	0.352	31.9 J	0.342 J	200
					usted Result for	No Adjustment	Adjust Upward	No Adjustment	No Adjustment	No Adjustment				
					ciated DUs (0-1)	Needed	Needed	Needed	Needed	Needed	Using RSD	Needed	Needed	Needed
			1-2	DU-5 (1-2)A	7/25/2022	0.551	7.47	41.4	237	70.5	0.111	27.6	0.335 J	157
			1-2 FR	DU-5 (1-2)B	7/25/2022	0.832	8.09	41.2	223	51.8	0.131	29.5	0.326 J	179
			1-2 FR	DU-5 (1-2)C	7/25/2022	0.572	7.18	42.9	220	53.7	0.369	58.9	0.317 J	167
West	DU-5	ISM		Mea	n Concentration	0.652	7.58	41.8	227	58.7	0.204 J	38.7	0.326 J	168
west	DU-5	ISIVI			RSD	19.6%	5.01%	1.81%	3.27%	14.3%	57.5%	37.1%	2.25%	5.36%
					RSD Evaluation	Very Good	Poor	Good	Very Good	Very Good				
				,	It for DU-5 (1-2)	0.652	7.58	41.8	227	58.7	0.369	38.7	0.326 J	168
				, ,	usted Result for ciated DUs (1-2)	No Adjustment Needed	Adjust Upward Using RSD	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed				
			2-3	DU-5 (2-3)A	7/26/2022	0.426 J	6.73	38.4	159	55.9	0.153	27.1	0.309 J	147
			2-3 FR	DU-5 (2-3)B	7/26/2022	0.596	6.29	36.8	144	68.1	0.107	26.2	0.300 J	224
			2-3 FR	DU-5 (2-3)C	7/26/2022	0.479 J	6.56	47.1	214	118	0.273	31.3	0.304 J	195
				Mea	n Concentration	0.500 J	6.53	40.8	172	80.7	0.178	28.2	0.304 J	189
				RSD		14.2%	2.78%	11.10%	17.5%	33.3%	39.4%	7.88%	1.21%	16.8%
			RSD Evaluation			Very Good	Good	Very Good	Very Good	Very Good				
					It for DU-5 (2-3)	0.500 J	6.53	40.8	172	80.7	0.178	28.2	0.304 J	189
				, ,	usted Result for	No Adjustment	No Adjustment	No Adjustment	No Adjustment					
				Asso	ciated DUs (2-3)	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed

Table I-1
Soil Results - Metals Field Replicate Statistics and Evaluation
Willamette Cove Upland Facility
Portland, Oregon

			Sample							by EPA Method				
Parcel	Decision	Sample	Depth	Sample ID	Sample Date		<u> </u>		Со	ncentrations in mg	/kg I	I		
	Unit	Туре	(feet bgs)			Antimony	Arsenic	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Zinc
			0-1	DU-11 (0-1)A	8/10/2022	0.545 U	4.60	23.6	38.5	53.1	0.721	29.3	0.545 U	116
			0-1 FR	DU-11 (0-1)B	8/10/2022	0.520 U	3.98	19.9	35.0	56.1	0.687	25.6	0.520 U	104
			0-1 FR	DU-11 (0-1)C	8/10/2022	0.541 U	4.14	22.2	36.7	50.6	0.726	26.5	0.541 U	110
				Mea	n Concentration RSD	0.545 U Not Detected	4.24 6.20%	21.9 6.97%	37 3.89%	53.3 4.22%	0.711 2.4%	27.1 5.81%	0.545 U Not Detected	110 4.45%
					RSD Evaluation	Not Detected	Very Good	Very Good	Not Detected	Very Good				
				, ,	for DU-11 (0-1) usted Result for tiated DUs (0-1)	0.545 U No Adjustment Calculated	4.24 No Adjustment Needed	21.9 No Adjustment Needed	36.7 No Adjustment Needed	53.3 No Adjustment Needed	0.711 No Adjustment Needed	27.1 No Adjustment Needed	0.545 U No Adjustment Calculated	110 No Adjustment Needed
			1-2	DU-11 (1-2)A	8/10/2022	0.535 U	3.93	21.4	33.0	42.8	0.504	27.0	0.535 U	90.1
			1-2 FR	DU-11 (1-2)B	8/10/2022	0.508 U	4.08	21.6	34.2	44.4	0.563	27.3	0.508 U	93.1
			1-2 FR	DU-11 (1-2)C	8/10/2022	0.520 U	4.15	22.0	37.3	49.0	0.633	28.2	0.520 U	99.5
Central	DU-11	ISM		Mea	n Concentration	0.535 U	4.05	21.7	35	45.4	0.567	27.5	0.535 U	94
					L.	Not Detected	2.26%	1.15%	5.20%	5.79%	9.30%	1.85%	Not Detected	4.16%
					RSD Evaluation	Not Detected	Very Good	Very Good	Not Detected	Very Good				
				Adjusted Result Statistically Adj	, ,	0.535 U No Adjustment Calculated	4.05 No Adjustment Needed	21.7 No Adjustment Needed	34.8 No Adjustment Needed	45.4 No Adjustment Needed	0.567 No Adjustment Needed	27.5 No Adjustment Needed	0.535 U No Adjustment Calculated	94.2 No Adjustment Needed
			2-3	DU-11 (2-3)A	8/10/2022	0.526 U	4.23	22.0	32.2	41.0	0.382	26.1	0.526 U	95.0
			2-3 FR	DU-11 (2-3)B	8/10/2022	0.522 U	4.19	21.0	35.2	43.3	0.604	26.4	0.522 U	95.0
			2-3 FR	DU-11 (2-3)C	8/10/2022	0.497 U	3.90	20.2	35.1	34.5	0.590	25.8	0.497 U	86.5
				Mean Concentration RSD N RSD Evaluation		0.526 U Not Detected	4.11 3.58%	21.1 3.50%	34 4.07%	39.6 9.41%	0.525 19.3%	26.1 0.939%	0.526 U Not Detected	92 4.35%
						Not Detected	Very Good	Very Good	Not Detected	Very Good				
			Adjusted Result for DU-11 (2-3)			0.526 U	4.11	21.1	34.2	39.6	0.525	26.1	0.526 U	92.2
			Statistically Adjusted	usted Result for tiated DUs (2-3)	No Adjustment Calculated	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Calculated	No Adjustment Needed	

Table I-1
Soil Results - Metals Field Replicate Statistics and Evaluation
Willamette Cove Upland Facility
Portland, Oregon

Purcease				Cample						Metals	by EPA Method	6020B			
Unit Vipe (feet bgs)	Parcel				Sample ID	Sample Date		T	T	Co	ncentrations in mg	/kg	T		
Central		Unit	Туре	•	oup.o.iz		Antimony	Arsenic	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Zinc
Purpose Purp				0-1	DU-13 (0-1)A	8/29/2022	0.792 J	6.04	14.2	94.3	241	1.15	21.4	0.563 U	204
Main Corconstitution 0,759 J 5.66 14.2 27.51 2.07 0.964 20.1 No Distinction 4.47% Not Distinction 4.47% No Dist				0-1 FR	DU-13 (0-1)B	8/29/2022	0.562 U	5.53	14.2	60.4	180	0.895	19.6	0.562 U	155
Part				0-1 FR	DU-13 (0-1)C	8/29/2022	0.923 J	5.41	14.1	55.5	199	0.848	19.4	0.541 U	155
Substitucibly Adjusted Result for 0.75					Mea						-		-		
Purpose Purp						RSD Evaluation	Very Good	Not Detected	Very Good						
Pulsa Puls					Statistically Adj	usted Result for	0.759 J	5.66	14.2	70.1	207	0.964	20.1	0.563 U	171
DU-13 ISM							•	,	,	,	,	,	,		•
DU-13 ISM				1-2	DU-13 (1-2)A	8/30/2022	0.513 U	4.79	13.8	53.0	86.5	0.785	18.6	0.513 U	109
DU-13 ISM Mean Concentration No.240 U 4.71 13.8 47.1 27.53% 14.0% 1.12% No.10etected 9.40% No.10etected 9.40% No.10etected Very Good Ver				1-2 FR	DU-13 (1-2)B	8/30/2022	0.520 U	4.61	13.7	43.7	92.3	0.572	18.4	0.520 U	103
Central Fig.				1-2 FR	DU-13 (1-2)C	8/30/2022	0.540 U	4.72	13.8	44.7	154	0.614	18.1	0.540 U	128
Central Part		DU-13	ISM		Mea										
Central Page Adjusted Result for DU-13 (1-2) 0.540 U 4.71 13.8 47.1 111 0.657 18.4 0.540 U No Adjustment No Adjust						-									Very Good
Central					Adjusted Result	for DU-13 (1-2)	0.540 U	4.71	13.8	47.1	111	0.657		0.540 U	113
2-3 DU-13 (2-3)A 8/31/2022 0.562 U 3.75 12.6 43.3 175 0.745 18.4 0.562 U 127					Statistically Adj	usted Result for	No Adjustment	No Adjustment							
2-3 DU-13 (2-3)A 8/31/2022 0.562 U 3.75 12.6 43.3 175 0.745 18.4 0.562 U 127	Central				Asso	ciated DUs (1-2)	Calculated	Needed	Needed	Needed	Needed	Needed	Needed	Calculated	Needed
2-3 FR DU-13 (2-3)C 8/31/2022 0.548 U 4.04 12.6 54.2 94.6 0.769 17.7 0.548 U 97.3	Contrar			2-3	DU-13 (2-3)A	8/31/2022	0.562 U	3.75	12.6	43.3	175	0.745	18.4	0.562 U	127
Mean Concentration RSD Not Detected 3.04% 0.00% 12.8% 31.8% 4.00% 2.55% Not Detected 15.1%				2-3 FR	DU-13 (2-3)B	8/31/2022	0.522 U	3.89	12.6	40.6	92.4	0.698	17.3	0.522 U	90.6
RSD Not Detected 3.04% 0.00% 12.8% 31.8% 4.00% 2.55% Not Detected 15.1%				2-3 FR	(/			-	-	-					
RSD Evaluation					Mea										
Adjusted Result for DU-13 (2-3) Statistically Adjusted Result for Associated DUs (2-3) U-16 (0-1)A 9/12/2022 4.29 8.31 24.8 93.4 J+ 237 2.43 25.6 0.543 U 371 DU-16 (0-1)B 9/12/2022 2.31 7.56 26.6 131 J+ 265 5.12 28.1 0.494 U 355 DU-16 ISM Mean Concentration RSD Evaluation RSD Evaluation Adjusted Result for DU-16 (0-1) Statistically Adju						-									
Statistically Adjusted Result for Associated DUs (2-3) No Adjustment Associated DUs (2-3) No Adjustment Associated DUs (2-3) No Adjustment Needed No Adjustment No Adj								•	•						
DU-16 ISM					-	, ,			-				-		
DU-16 ISM DU-16 (0-1)B 9/12/2022 2.31 7.56 26.6 131 J+ 265 5.12 28.1 0.494 U 355							•	,	,	,	,	,	,		•
DU-16 ISM DU-16 (0-1)C 9/12/2022 3.04 7.89 17.9 127 J+ 306 3.87 23.2 0.539 U 283 283 284				0-1		` ′	4.29	8.31	24.8	93.4 J+	237	2.43	25.6	0.543 U	371
DU-16 ISM Mean Concentration RSD 25.4% 3.88% 16.2% 14.4% 10.5% 28.9% 7.80% Not Detected 11.4% RSD Evaluation Very Good Not Detected Very Good Very Good Very Good Very Good Very Good Not Detected Very Good Not Detected Very Good Very Go				0-1 FR	DU-16 (0-1)B	9/12/2022	2.31	7.56	26.6	131 J+	265	5.12	28.1	0.494 U	355
RSD 25.4% 3.88% 16.2% 14.4% 10.5% 28.9% 7.80% Not Detected 11.4% RSD Evaluation Very Good Not Detected Very Good Adjusted Result for DU-16 (0-1) 3.21 7.92 23.1 117 J+ 269 3.81 25.6 0.543 U 336 Statistically Adjusted Result for No Adjustment No				0-1 FR	DU-16 (0-1)C	9/12/2022	3.04	7.89	17.9	127 J+	306	3.87	23.2	0.539 U	283
RSD Evaluation Very Good V		DU-16	ISM		Mea		-								
Adjusted Result for DU-16 (0-1) 3.21 7.92 23.1 117 J+ 269 3.81 25.6 0.543 U 336 Statistically Adjusted Result for No Adjustment						-									
Statistically Adjusted Result for No Adjustment No Adjustm								•	•						
					,	` '	-	-	-	-					
ביים ביים אינים ביים אונים ביים אונים ביים ביים ביים ביים ביים ביים ביים ב					, ,	usted Result for ciated DUs (0-1)	No Adjustment Needed	No Adjustment Calculated	No Adjustment Needed						

			Sample							s by EPA Method				
Parcel	Decision	Sample	Depth	Sample ID	Sample Date		1	,	Со	ncentrations in mg	/kg	1	1	
	Unit	Туре	(feet bgs)	oupio is	oumpio Duito	Antimony	Arsenic	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Zinc
			0-1	DU-18 (0-1)A	9/29/2022	0.874 J	6.99	22.1	71.0	198	0.965	22.5	0.531 U	146
			0-1 FR	DU-18 (0-1)B	9/29/2022	1.41	10.9	22.8	111	198	1.72	23.5	0.505 U	173
			0-1 FR	DU-18 (0-1)C	9/29/2022	1.06	8.94	20.8	87.7	280	1.20	23.3	0.499 U	204
				Mea	n Concentration	1.11 J	8.94	21.9	89.9	225	1.30	23.1	0.531 U	174
					RSD	19.9%	17.8%	3.78%	18.2%	17.2%	24.4%	1.87%	Not Detected	13.6%
					RSD Evaluation	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Not Detected	Very Good
				Adjusted Result Statistically Adj		1.11 J	8.94	21.9	89.9	225	1.30	23.1	0.531 U	174
					usted Result for ciated DUs (0-1)	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Calculated	No Adjustment Needed
			1-2		9/30/2022	0.491 U	5.38	14.0	58.2	179	0.806	18.3	0.491 U	156
			1-2 FR	DU-18 (1-2)B	9/30/2022	0.495 U	5.98	15.3	79.5	150	1.06	21.8	0.495 U	158
			1-2 FR	DU-18 (1-2)C	9/30/2022	0.490 U	6.22	14.3	77.7	119	0.985	18.3	0.490 U	133
Central	DU-18	ISM		Mea	n Concentration	0.495 U	5.86	14.5	71.8	149	0.950	19.5	0.495 U	149
					-	Not Detected	6.03%	3.82%	13.4%	16.4%	11.2%	8.48%	Not Detected	7.61%
					RSD Evaluation	Not Detected	Very Good	Not Detected	Very Good					
				Adjusted Resul	` '	0.495 U	5.86	14.5	71.8	149	0.950	19.5	0.495 U	149
					usted Result for ciated DUs (1-2)	No Adjustment Calculated	No Adjustment Needed	No Adjustment Calculated	No Adjustment Needed					
			2-3	DU-18 (2-3)A	10/3/2022	0.502 U	3.77	11.9	30.8	55.4	0.296	16.6	0.502 U	94.4
			2-3 FR	DU-18 (2-3)B	10/3/2022	0.489 U	5.31	13.0	59.9	92.3	0.681	17.8	0.489 U	105
			2-3 FR	DU-18 (2-3)C	10/3/2022	0.489 U	5.63	13.9	53	75.2	0.679	18.3	0.497 J	118
				Mea	n Concentration	0.502 U	4.90	12.9	47.9	74.3	0.552	17.6	0.496 J	106
					_	Not Detected	0.166	6.32%	0.259	0.203	32.8%	4.06%	1.08%	9.12%
					RSD Evaluation	Not Detected	Very Good	Very Good						
				Adjusted Result for DU-18 (2-3)		0.502 U	4.90	12.9	47.9	74.3	0.552	17.6	0.496 J	106
			Statistically Adjusted Re			No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment
				ASSO	ciated DUs (2-3)	Calculated	Needed	Needed						

									Metals	by EPA Method	6020B			
B 1	Decision	Sample	Sample						Co	ncentrations in mg/	/kg			
Parcel	Unit	Туре	Depth (feet bgs)	Sample ID	Sample Date	Antimony	Arsenic	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Zinc
			0-1	DU-22 (0-1)A	10/13/2022	2.89	6.48	19	82.3	129	0.592	21	0.53 U	167
			0-1 FR	DU-22 (0-1)B	10/13/2022	2.79	5.77	18	86.7	148	0.602	21.4	0.506 U	169
			0-1 FR	DU-22 (0-1)C	10/13/2022	2.03	5.83	19.6	96.6	190	0.43	23.2	0.538 U	178
				Mea	n Concentration	2.57	6.03	18.9	88.5	156	0.541	21.9	0.538 U	171
					RSD	14.9%	5.33%	3.50%	6.75%	16.37%	14.6%	4.38%	Not Detected	2.79%
					RSD Evaluation	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Not Detected	Very Good
				Adjusted Result	` '	2.57	6.03	18.9	88.5	156	0.541	21.9	0.538 U	171
					usted Result for	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment
			1.0	Assoc DU-22 (1-2)A	10/14/2022	Needed 0.922 J	Needed 4.41	Needed 17.4	Needed 31.7	Needed 47.8	Needed 0.231	Needed 21.1	Calculated 0.494 U	Needed
			1-2 1-2 FR	- ()	10/14/2022	0.922 J 2.63	4.41	17.4	31.7 47.4	72.3	0.231	20.8	0.494 U 0.512 U	125 J- 109
			1-2 FR 1-2 FR	DU-22 (1-2)B DU-22 (1-2)C	10/14/2022	2.03	4.53 4.53	18.8	47.4 44.8	72.3 65.4	0.349	20.8	0.512 U 0.497 U	164
			I-Z FR		n Concentration	1.864 J	4.42	17.4	41.3	61.8	0.161	21.5	0.497 U	133 J
				Wida	RSD	0.380	1.86%	6.32%	0.166	0.167	31.4%	3.66%	Not Detected	0.174
Central	DU-22	ISM			RSD Evaluation	Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Not Detected	Very Good
				Adjusted Result		1.86 J	4.423	17.4	41.3	61.8	0.247	21.5	0.512 U	133 J-
				,	usted Result for	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment
				Assoc	ciated DUs (1-2)	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Calculated	Needed
			2-3	DU-22 (2-3)A	10/14/2022	0.731 J	4.45	17.2	29.4	51.9	0.19	20.2	0.499 U	96.5
			2-3 FR	DU-22 (2-3)B	10/14/2022	0.839 J	4.43	18	54	57.5	0.376	21.4	0.509 U	98.6
			2-3 FR	DU-22 (2-3)C	10/14/2022	1.09 J	3.92	16	32.6	43.4	0.355	20.8	0.557 U	123
				Mea	n Concentration	0.887 J	4.27	17.1	38.7	50.9	0.307	20.8	0.557 U	106
					RSD	0.170	5.75%	4.82%	28.24%	0.114	27.1%	2.36%	Not Detected	0.113
					RSD Evaluation	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Not Detected	Very Good
				Adjusted Result	for DU-22 (2-3)	0.887 J	4.27	17.1	38.7	50.9	0.307	20.8	0.557 U	106
				, ,	usted Result for	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment
				Assoc	ciated DUs (2-3)	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Calculated	Needed

									Metals	by EPA Method	6020B			
Parcel	Decision	Sample	Sample	Samula ID	Samula Data				Со	ncentrations in mg/	/kg			
Parcei	Unit	Туре	Depth (feet bgs)	Sample ID	Sample Date	Antimony	Arsenic	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Zinc
			0-1	DU-26 (0-1)A	11/9/2022	3.22	9.5	18.8	152	330	1.95	20.7	0.605 J	260
			0-1 FR	DU-26 (0-1)B	11/9/2022	4.79	9.01	17.1	129	302	1.28	19.4	0.502 J	244
			0-1 FR	DU-26 (0-1)C	11/9/2022	3.61	6.81	19.1	105	292	1.53	20.4	0.522 J	235
				Mea	n Concentration	3.87	8.44	18.3	129	308	1.5867	20.2	0.543 J	246
					RSD	0.172	0.139	4.80%	0.149	5.22%	17.4%	2.76%	8.21%	4.20%
					RSD Evaluation	Very Good	Very Good							
				,	for DU-26 (0-1)	3.87	8.44	18.3	129	308	1.59	20.2	0.543 J	246
				, ,	usted Result for	No Adjustment	No Adjustment							
					ciated DUs (0-1)	Needed	Needed							
			1-2	DU-26 (1-2)A	11/10/2022	1.4	5.16	14.7	80.7	151	0.944	18.3	0.511 U	206
			1-2 FR	DU-26 (1-2)B	11/10/2022	0.728 J	4.61	13.2	48.5	121	0.397	17.2	0.558 J	182
			1-2 FR	DU-26 (1-2)C		1.06	11.6	15.5	79.8	143	1.25	19.9	0.532 U	186
				Mea	n Concentration	1.06 J	7.12	14.5	69.7	138	0.864	18.5	0.534 J	191
Central	DU-26	ISM			RSD	0.258	0.445	6.59%	0.215	9.17%	40.9%	6.00%	3.60%	5.49%
					RSD Evaluation	Very Good	Good	Very Good	Very Good	Very Good	Good	Very Good	Very Good	Very Good
				,	for DU-26 (1-2)	1.06 J	7.12	14.5	69.7	138	0.864	18.5	0.534 J	191
				, ,	usted Result for ciated DUs (1-2)	No Adjustment Needed	No Adjustment Needed							
			2-3	DU-26 (2-3)A	11/11/2022	0.491 U	3.92	14.6	36.1	65.2	0.258	18.1	0.491 U	112
			2-3 FR	DU-26 (2-3)B	11/11/2022	0.521 U	4.33	12.4	41.6	59.8	0.82	18.3	0.521 U	108
			2-3 FR	DU-26 (2-3)C		0.529 J	4.75	13.3	39.6	76.1	0.537	17.5	0.512 U	138
				Mea	n Concentration	0.514 J	4.33	13.4	39.1	67.0	0.538	18.0	0.521 U	119
					RSD	3.18%	7.82%	6.72%	5.81%	10.1%	42.6%	1.89%	Not Detected	0.111
				RSD Evaluation		Very Good	Good	Very Good	Not Detected	Very Good				
			Adjusted Result for DU-26 (2-3)		0.514 J	4.333	13.4	39.1	67.0	0.538	18.0	0.521 U	119	
					usted Result for ciated DUs (2-3)	No Adjustment Needed	No Adjustment Calculated	No Adjustment Needed						

									Metals	by EPA Method	6020B			
Parcel	Decision	Sample	Sample Depth	Commis ID	Sample Date				Co	ncentrations in mg	/kg			
Parcei	Unit	Туре	(feet bgs)	Sample ID	Sample Date	Antimony	Arsenic	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Zinc
			0-1	DU-38 (0-1)A	11/14/2022	1.31	3.69	13.1	27.7	30.5	0.039 J	16.5	0.486 U	109
			0-1 FR	DU-38 (0-1)B	11/14/2022	0.959 J	3.71	11.9	22.8	25.8	0.0454 J	15	0.534 U	107
			0-1 FR	DU-38 (0-1)C	11/14/2022	0.629 J	3.66	12.4	23.2	27.1	0.0431 J	16.3	0.536 U	110
				Mea	n Concentration RSD	0.966 J 0.288	3.69 0.557%	12.5 3.95%	24.6 9.04%	27.8 7.13%	0.043 J 6.2%	15.9 4.17%	0.536 U Not Detected	109 1.15%
					RSD Evaluation	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Not Detected	Very Good
				, ,	for DU-38 (0-1) usted Result for ciated DUs (0-1)	0.966 J No Adjustment Needed	3.687 No Adjustment Needed	12.5 No Adjustment Needed	24.6 No Adjustment Needed	27.8 No Adjustment Needed	0.043 J No Adjustment Needed	15.9 No Adjustment Needed	0.536 U No Adjustment Calculated	108.667 No Adjustment Needed
			1-2	DU-38 (1-2)A	11/16/2022	0.661 J	3.2	10.7	18.3	19.3	0.0415 U	13.7	0.519 U	84.4
			1-2 FR	DU-38 (1-2)B	11/16/2022	4.88	3.76	10.9	56	76.7	0.0407 U	15.3	0.508 U	102
			1-2 FR	DU-38 (1-2)C	11/16/2022	1.84	3.35	12.3	23	31.4	0.0411 U	16	0.514 U	94.6
East	DU-38	ISM		Mea	n Concentration	2.46 J	3.44	11.3	32.4 J	42.5 J	0.042 U	15.0	0.519 U	93.7
					RSD	0.722	6.89%	6.30%	0.517	58.2%	Not Detected	6.42%	Not Detected	7.70%
					RSD Evaluation	Poor	Very Good	Very Good	Poor	Poor	Not Detected	Very Good	Not Detected	Very Good
				, ,	usted Result for butted DUs (1-2)	4.88 J Adjust Upward Using RSD	3.437 No Adjustment Needed	11.3 No Adjustment Needed	56.0 Adjust Upward Using RSD	76.7 Adjust Upward Using RSD	0.042 U No Adjustment Calculated	15.0 No Adjustment Needed	0.519 U No Adjustment Calculated	93.7 No Adjustment Needed
			2-3	DU-38 (2-3)A	11/17/2022	0.998	3.58	13.5	30.3	19.9	0.0396 U	17.1	0.495 U	83.3
			2-3 FR	DU-38 (2-3)B	11/17/2022	3.71	3.63	12.7	51.4	51.3	0.039 U	16.5	0.487 U	108
			2-3 FR	DU-38 (2-3)C	11/17/2022	0.921 J	4.06	13.6	26	22.1	0.0421 U	16.8	0.527 U	107
				Mean Concentration RSD		1.88 J	3.76	13.3	35.9	31.1	0.042 U	16.8	0.527 U	99.4
						0.691	5.74%	3.04%	30.9%	0.460	Not Detected	1.46%	Not Detected	0.115
				RSD Evaluation		Poor	Very Good	Very Good	Very Good	Good	Not Detected	Very Good	Not Detected	Very Good
				Adjusted Result	` '	3.71 J	3.757	13.3	35.9	31.1	0.042 U	16.8	0.527 U	99.4
1					usted Result for ciated DUs (2-3)	Adjust Upward Using RSD	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Calculated	No Adjustment Needed	No Adjustment Calculated	No Adjustment Needed

Table I-1 Soil Results - Metals Field Replicate Statistics and Evaluation Willamette Cove Upland Facility Portland, Oregon

									Metals	s by EPA Method	6020B			
Damad	Decision	Sample	Sample	0					Co	ncentrations in mg	/kg			
Parcel	Unit	Туре	Depth (feet bgs)	Sample ID	Sample Date	Antimony	Arsenic	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Zinc
			0-1	DU-41 (0-1)A	10/24/2022	0.695 J	5.65	16.9	52.5	83.8	0.0558 J	16	0.492 U	104
			0-1 FR	DU-41 (0-1)B	10/24/2022	1.68	12.2	16.8	67.5	78.4	0.0934	15.9	0.531 U	138
			0-1 FR	DU-41 (0-1)C	10/24/2022	2.81	50.1	16.3	78.6	75.4	0.262	16.5	0.491 U	139
				Mea	n Concentration	1.73 J	22.7 J	16.7	66.2	79.2	0.137 J	16.1	0.531 U	127
					RSD	0.500	86.5%	1.57%	0.162	4.39%	65.4%	1.63%	Not Detected	0.128
					RSD Evaluation	Good	Poor	Very Good	Very Good	Very Good	Poor	Very Good	Not Detected	Very Good
				, ,	for DU-41 (0-1) usted Result for ciated DUs (0-1)	1.73 J No Adjustment Needed	50.1 Adjust Upward Using RSD	16.7 No Adjustment Needed	66.2 No Adjustment Needed	79.2 No Adjustment Needed	0.262 J Adjust Upward Using RSD	16.1 No Adjustment Needed	0.531 U No Adjustment Calculated	127 No Adjustment Needed
			1-2	DU-41 (1-2)A	10/26/2022	2.39	10.6	20.7	62	129	0.108	18.4	0.509 U	147
			1-2 FR	DU-41 (1-2)B	10/26/2022	1.4	11.1	18.1	52.4	112	0.105	17.7	0.501 U	165
			1-2 FR	DU-41 (1-2)C	10/26/2022	1.88	14.1	18.5	71.1	126	0.0878	18.3	0.514 U	157
Soil Berms	DU-41	ISM		Mea	n Concentration	1.89	11.9	19.1	62	122	0.100	18.1	0.514 U	156
					RSD	0.214	0.130	5.98%	0.123	6.06%	8.9%	1.70%	Not Detected	4.71%
					RSD Evaluation	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Not Detected	Very Good
				, ,	usted Result for	1.89 No Adjustment	11.9 No Adjustment	19.1 No Adjustment	61.8 No Adjustment	122 No Adjustment	0.100 No Adjustment	18.1 No Adjustment	0.514 U No Adjustment	156 No Adjustment
				1	ciated DUs (1-2)	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Calculated	Needed
			2-3	DU-41 (2-3)A	10/28/2022	1.49	19.6	21.7	43.6	107	0.0732 J	21.1	0.505 U	161
			2-3 FR	DU-41 (2-3)B	10/28/2022	1.29	10.7	20.1	42	47.5	0.0523 J	21.3	0.505 U	160
			2-3 FR	DU-41 (2-3)C	10/28/2022	1.69	11.6	21.4	45.2	109	0.0528 J	21.7	0.511 U	182
				Mean Concentration RSD		1.49	14.0	21.1	43.6	87.8	0.059 J	21.4	0.511 U	168
						0.110	0.286	3.30%	3.00%	0.325	16.4%	1.17%	Not Detected	6.05%
			RSD Evaluation		Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Not Detected	Very Good	
			Adjusted Result for DU-41 (2-3) Statistically Adjusted Result for			1.49	14.0	21.1	43.6	87.8	0.059 J	21.4	0.511 U	168
				, ,	usted Result for ciated DUs (2-3)	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Calculated	No Adjustment Needed
Notoci		1		ASS00	JI ALEU DUS (2-3)	Needed	Neeueu	Neeueu	Neeueu	Meeded	Neeueu	Needed	Calculated	Meeded

ISM = Incremental Sampling Methodology.

bgs = Below ground surface.

EPA = United States Environmental Protection Agency.

FR = Field replicate. Field replicates are collected at different locations within the same ISM cell as the primary sample.

mg/kg = Milligrams per kilogram (parts per million).

Mean Concentration = Arithmetic mean calculation for the field replicates. Mean concentrations are calculated using the detection limit (DL) if the target analyte is not detected.

If all the three field replicates are not detected for the target analyte, then the maximum DL is used for the final result.

RSD = Relative Standard Deviation. RSDs are calculated using the DL if the target analyte is not detected.

RSD Evaluation = RSD ≤35% is "Very Good" precision, RSD >35% but ≤50% is "Good" precision, RSD >50% but ≤100% is "Poor" precision, RSD >100% is "Very Poor" precision.

U = Analyte was not detected.

J = Result is estimated.

Table I-2 Soil Results - Dioxins/Furans Field Replicate Statistics and Evaluation Willamette Cove Upland Facility Portland, Oregon

_																	Dioxins/Furans by E	PA Method 1613B												
1	Decision	Sample	Sample														Concentration													
Parcel	Unit	T	Depth (feet bgs)	Sample ID Sample Date	2,3,7,8-TCDD	1,2,3,7,8-PeCDD	1,2,3,4,7,8-HxCDD	1,2,3,6,7,8-HxCDD	1,2,3,7,8,9-HxCDD	1,2,3,4,6,7,8- HpCDD	OCDD	2,3,7,8-TCDF	1,2,3,7,8-PeCDF	2,3,4,7,8-PeCDF	1,2,3,4,7,8-HxCDF	1,2,3,6,7,8-HxCDF	2,3,4,6,7,8-HxCDF	1,2,3,7,8,9-HxCDF	1,2,3,4,7,8-HpCDF	1,2,3,4,7,8,9-HpCDF	OCDF	Total TCDD	Total PeCDD	Total HxCDD	Total HpCDD	Total TCDF	Total PeCDF	Total HxCDF	Total HpCDF	Total D/F TEQ (Mammal)
			0-1	DU-5 (0-1)A 07/22/2022	0.561	1.75 J	1.55 U	9.28	3.95	209	1910	4.10	7.53	5.27	13.8	4.99	3.01	3.02	60.6	4.63	127	4.02	12.2	58.8	402	38.5 JN	54.5 JN	84.1	164	11.8 J
				DU-5 (0-1)B 07/22/2022	0.746	2.02 J	1.17 U	8.24	4.35	258	2360	6.93	14.9	8.86	24.3	8.24	4.53	3.49	76.9	6.57	153	7.49	10.4	73.8	517	58.00 JN	80.3 JN	107	202	16.1 J
			0-1 FR	DU-5 (0-1)C 07/22/2022	0.565	2.07 J	2.74	12.5	6.70	256	2310	5.96	11.1	7.26	19.9	9.07	4.2	3.29	214	4.99	189	4.00	9.27	81.1	500	44.6 JN	72.2 JN	171	435	17.1 J
				Mean Concentration		1.95 J 7.22%	1.82 36.7%	10.0 18.1%	5.00 24.3%	241 9.40%	2193 9.18%	5.66 20.7%	11.2 26.9%	7.13 20.6%	19.3 22.3%	7.43 23.7%	3.91 16.7%	3.27 5.90%	117 J 58.7%	5.40 15.6%	156 16.3%	5.17 31.7%	10.6 11.4%	71.2 13.0%	473 10.7%	47.0 JN 17.3%	69.0 JN 15.6%	121 30.5%	267 44.9%	15.0 J 15.4%
				RSD Evaluation		Very Good	Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Poor	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Good	Very Good
				Adjusted Result for DU-5 (0-1)		1.95 J	1.82	10.0	5.00	241	2193	5.66	11.2	7.13	19.3	7.43	3.91	3.27	214	5.40	156	5.17	10.6	71.2	473	47.0 JN	69.0 JN	121	267	15.0 J
				Statistically Adjusted Result for		No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	Adjust Upward	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment
				Associated DUs (0-1)		Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Using RSD	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed
				DU-5 (1-2)A 07/25/2022	0.508	0.652 U	1.94 J	7.31	1.99 J	207	2060	5.26	10.2	7.54	17.6	6.59	4.78	2.16 J	76	5.78	154	3.89	2.89	48.4	377	72.7 JN	85.4 JN	101	202	11.7 J
			1-2 FR	DU-5 (1-2)B 07/25/2022	0.422 J	0.726 U	2.23 U 1.97 J	7.99	3.89	264 255	2630 2460	7.10 5.28	10.8 8.81	9.02 7.08	16.6 16.5	6.21 11.0	4.50 5.14	4.38 2.84	67.1 255	6.59 6.43	187 240	3.33 2.82	5.41 7.02	55.2 55.4	515 465	82.9 JN 50.3 JN	93.1 JN 73.7 JN	99.7 197	214 525	13.2 J
			I-Z FK	DU-5 (1-2)C 07/25/2022 Mean Concentration	0.427 U 0.452 J	1.26 J 0.879 J	1.97 J	8.63 7.98	2.96 J	242	2383	5.88	9.94	7.06	16.9	7.93	4.81	2.04 3.13 J	133 J	6.43	10/1	3.35	5.11	53.0	465 452	50.3 JN 68.6 JN	73.7 JN 84.1 JN	133	314	15.3 J 13.4 J
West	DU-5	ISM		RSE		30.8%	6.36%	6.76%	26.2%	10.3%	10.0%	14.7%	8.39%	10.5%	2.94%	27.4%	5.45%	29.7%	65.2%	5.59%	18.3%	13.1%	33.3%	6.14%	12.6%	19.8%	9.49%	34.4%	47.7%	10.9%
				RSD Evaluation	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Poor	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Good	Very Good
				Adjusted Result for DU-5 (1-2)	0.452 J	0.879 J	2.05 J	7.98	2.96 J	242	2383	5.88	9.94	7.88	16.9	7.93	4.81	3.13 J	255	6.27	194	3.35	5.11	53.0	452	68.6 JN	84.1 JN	133	314	13.4 J
				Statistically Adjusted Result for		No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	Adjust Upward	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment
				Associated DUs (1-2)		Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Using RSD	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed
				DU-5 (2-3)A 07/26/2022	1.28	1.57 J	1.38 J	7.87	3.99	260	2560	5.58	9.36	9.89	16.2	6.36	4.88	2.83	89.7	7.69	192	5.54	7.35	57.8	464	74.4 JN	104 JN	112	241	15.4 J
			2-3 FR 2-3 FR	DU-5 (2-3)B 07/26/2022 DU-5 (2-3)C 07/26/2022	0.511 0.535	1.59 U 1.49 J	1.91 J 1.83 J	6.43 11.5	3.28	246 295	2360 3160	4.85 5.77	8.14 11.4	8.47 7.9	14.1 25.2	5.85 21.2	4.63 7.95	2.95 6.06	57.5 610	5.83 9.63	151 408	4.18 4.02	7.54 4.76	58.3 67.1	581 519	89.7 JN 49.6 JN	92.4 JN 89.0	90.1 392	179 1130	12.3 J 23.3 J
			2-3 FK	Mean Concentration		1.49 J	1.03 J	8.60	3.72	290	2693	5.40	9.63	8.75	18.5	11.1 J	5.82	3.95	252 J	7.72	250	4.58	6.55	61.1	521	71.2 JN	95.1 JN	198 J	517 J	17.0 J
				RSE	46.0%	2.79%	13.7%	24.8%	8.48%	7.72%	12.6%	7.34%	14.0%	9.56%	26.0%	63.9%	25.9%	37.9%	100%	20.1%	45.0%	14.9%	19.4%	6.99%	9.17%	23.2%	6.75%	69.4%	84.1%	27.1%
				RSD Evaluation	Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Poor	Very Good	Good	Very Poor	Very Good	Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Poor	Poor	Very Good
				Adjusted Result for DU-5 (2-3)		1.55 J	1.71 J	8.60	3.72	267	2693	5.40	9.63	8.75	18.5	21.2	5.82	3.95	610	7.72	250	4.58	6.55	61.1	521	71.2 JN	95.1 JN	392	1130	17.0 J
				Statistically Adjusted Result for Associated DUs (2-3)		No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	Adjust Upward Using RSD	No Adjustment Needed	No Adjustment Needed	Additional Data Review Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	Adjust Upward Using RSD	Adjust Upward Using RSD	No Adjustment Needed
			0-1		0.154 U	2.95	0.824 U	15 7	7.83	164	1310	2.06	3.69	3.15	8.08	4.43	2.64	1.19 U	AO O		79.3	2.03	16.2	117	340	18.3 JN	30.5	61.6	118	10.8 J
			0-1 0-1 FR	DU-11 (0-1)A 8/10/2022 DU-11 (0-1)B 8/10/2022	0.134 U	0.237 U	0.335 U	11.9	4.66	174	1290	1.60	2.43 J	2.50	5.47	2.36 J	1.62 J	1.19 U	41.1	2.73	65.4	2.64	3.50	97.7	347	16.4 JN	27.8	51.2	103	6.48 J
				DU-11 (0-1)C 8/10/2022	0.210 U	2.70	0.800 U	19.0	8.96	301	2150	2.03	3.04	2.42 J	5.64	2.32 J	0.839 U	1.08 U	48.1	1.16 U	85.8	1.90	6.89	150	534	16.5 JN	31.4	59.9	121	11.7 J
				Mean Concentration		1.96 J	0.824 U	15.5	7.15	213	1583	1.90	3.05 J	2.69 J	6.40	3.04 J	1.70 J	1.19 U	45.7	2.19	76.8	2.19	8.86 J	122	407	17.1 JN	29.9	57.6	114	9.67 J
					Not Detected	62.4%	Not Detected	18.7%	25.5%	29.3%	25.3%	11.1%	16.8%	12.2%	18.6%	32.4%	43.4%	Not Detected	7.16%	33.3%	11.1%	14.7%	60.6%	17.8%	22.1%	5.12%	5.12%	7.91%	6.91%	23.7%
					Not Detected	Poor	Not Detected	Very Good	Good	Not Detected	Very Good	Very Good	Very Good	Very Good	Poor	Very Good	Very Good	Very Good												
				Adjusted Result for DU-11 (0-1)		2.95	0.824 U	15.5	7.15	213	1583	1.90	3.05 J	2.69 J	6.40	3.04 J	1.70 J	1.19 U	45.7	2.19	76.8	2.19	16.2	122	407	17.1 JN	29.9	57.6	114	9.67 J
				Statistically Adjusted Result for Associated DUs (0-1)		Adjust Upward Using RSD	No Adjustment Calculated	No Adjustment Needed	No Adjustment Needed	No Adjustment Calculated	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	Adjust Upward Using RSD	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed												
			1-2	DU-11 (1-2)A 8/10/2022	0.147 U	0.509 U	0.571 U	7.54	0.487 U	140	1600	1.96	3.02	2.45 J	6.30	0.672 U	0.979 U	1.28 U	36.1	1.53 U	79.1	1.68	2.38	55.7	399	12.0 JN	22.2	40.6	101	5.21 J
				DU-11 (1-2)B 8/10/2022	0.189 U	0.508 U	0.651 U	5.30	1.64 J	111	987	1.62	2.63	2.01 J	5.89	2.12 J	1.37 J	0.412 U	33.0	2.07 J	74.0	1.20	0.508 U	38.4	219	9.99	21.6	36.7	91.6	4.66 J
				DU-11 (1-2)C 8/10/2022	0.172 U	0.856 U	1.11 U	5.78	0.882 U	106	941	1.25	2.47 J	2.32 J	5.05	0.511 U	0.715 U	1.01 U	29.1	1.34 U	53.3	1.34	0.856 U	41.4	207	8.29	21.5	35.3	71.7	4.36 J
				Mean Concentration		0.856 U	1.11 U	6.21	1.00 J	119	1176	1.61	2.71 J	2.26 J	5.75	1.10 J	1.02 J	1.28 U	32.7	1.65 J	68.8	1.41	1.25 J	45.2	275	10.1 JN	21.8	37.5	88.1	4.74 J
Central	DU-11	ISM			Not Detected	Not Detected	Not Detected	15.5%	47.7%	12.6%	25.5%	18.0%	8.53%	8.17%	9.05%	65.7%	26.3%	Not Detected	8.75%	18.78%	16.2%	14.3%	65.1%	16.7%	31.9%	15.0%	1.42%	5.97%	13.9%	7.39%
					Not Detected	Not Detected	Not Detected	Very Good	Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Poor	Very Good	Not Detected	Very Good	Very Good	Very Good	Very Good	Poor	Very Good	Very Good	Very Good				
				Adjusted Result for DU-11 (1-2)		0.856 U	1.11 U	6.21	1.00 J	119	1176	1.61	2.71 J	2.26 J	5.75	2.12 J	1.02 J	1.28 U	32.7	1.65 J	68.8	1.41	2.38	45.2	275	10.1 JN	21.8	37.5	88.1	4.74 J
				Statistically Adjusted Result for Associated DUs (1-2)		No Adjustment Calculated	No Adjustment Calculated	No Adjustment Needed	Adjust Upward Using RSD	No Adjustment Needed	No Adjustment Calculated	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	Adjust Upward Using RSD	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed											
			2-3	DU-11 (2-3)A 8/10/2022	0.249 U	0.727 U	0.978 U	4.94	0.796 U	99.3	894	1.48	2.93	1.76 J	5.90	2.18 J	0.616 U	0.806 U	29.1	1.33 U	59.7	1.56	0.727 U	39.9	204	9.83	18.8	34.1	78	4.29 J
				DU-11 (2-3)B 8/10/2022	0.238 U	0.602 U	0.919 U	5.67	0.796 U	162	1830	2.17	3.80	2.39 J	7.60	2.10 J	0.768 U	0.910 U	43.2	1.79 U	108	1.19	0.602 U	55.7	453	12.4	23.6	47.4	124	5.89 J
				DU-11 (2-3)C 8/10/2022	0.187 U	0.679 U	0.872 U	5.07	0.746 U	107	898	1.63	2.86	1.98 J	6.12	0.814 U	1.15 U	1.44 U	32.5	1.48 U	60.1	1.27	0.679 U	43.1	211	11.0	21.0	35.9	79.5	4.34 J
				Mean Concentration		0.727 U	0.978 U	5.23	0.796 U	123	1207	1.76	3.20	2.04 J	6.54	1.96 J	1.15 U	1.44 U	34.9	1.79 U	75.9	1.34	0.727 U	46.2	289	11.1	21.1	39.1	93.8	4.84 J
				RSD	Not Detected	Not Detected	Not Detected	6.08%	Not Detected	22.7%	36.5%	16.8%	13.4%	12.8%	11.5%	43.9%	Not Detected	Not Detected	17.2%	Not Detected	29.9%	11.9%	Not Detected	14.8%	40.0%	9.48%	9.28%	15.1%	22.7%	15.4%
				RSD Evaluation		Not Detected	Not Detected	Very Good	Not Detected	Very Good	Good	Very Good	Very Good	Very Good	Very Good	Good	Not Detected	Not Detected	Very Good	Not Detected	Very Good	Very Good	Not Detected	Very Good	Good	Very Good	Very Good	Very Good	Very Good	Very Good
1				Adjusted Result for DU-11 (2-3)		0.727 U	0.978 U	5.23	0.796 U	123	1207	1.76	3.20	2.04 J	6.54	1.96 J	1.15 U	1.44 U	34.9	1.79 U	75.9	1.34	0.727 U	46.2	289	11.1	21.1	39.1	93.8	4.84 J
				Statistically Adjusted Result for Associated DUs (2-3)		No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment Needed	No Adjustment	No Adjustment Needed	No Adjustment	No Adjustment	No Adjustment	No Adjustment Needed	No Adjustment Calculated	No Adjustment	No Adjustment	No Adjustment	No Adjustment Needed	No Adjustment Needed	No Adjustment	No Adjustment Needed	No Adjustment	No Adjustment	No Adjustment	No Adjustment Needed	No Adjustment	No Adjustment Needed
1	1		1	Associated DUS (2-3)	Calculated	Calculated	Calculated	Needed	Calculated	Needed	Calculated	Calculated	Needed	Calculated	Needed	Needed	Calculated	iveeded	Needed	Needed	Needed	rveeded	Needed	iveeded						

Table I-2
Soil Results - Dioxins/Furans Field Replicate Statistics and Evaluation
Willamette Cove Upland Facility
Portland, Oregon

	eieiee C	Parra la	Sample															Dioxins/Furans by E													
		Sample Type	Depth (feet bgs)	Sample ID	Sample Date	2,3,7,8-TCDD	1,2,3,7,8-PeCDD	1,2,3,4,7,8-HxCDD	1,2,3,6,7,8-HxCDD	1,2,3,7,8,9-HxCDD	1,2,3,4,6,7,8- HpCDD	OCDD	2,3,7,8-TCDF	1,2,3,7,8-PeCDF	2,3,4,7,8-PeCDF	1,2,3,4,7,8-HxCDF	1,2,3,6,7,8-HxCDF	2,3,4,6,7,8-HxCDF		1,2,3,4,7,8-HpCDF	1,2,3,4,7,8,9-HpCDF	OCDF	Total TCDD	Total PeCDD	Total HxCDD	Total HpCDD	Total TCDF	Total PeCDF	Total HxCDF	Total HpCDF	Total D/F TEQ (Mammal)
			0-1	DU-13 (0-1)A	8/29/2022	3.88	117	42.2	795	434	1500	1840	2.40	4.35	12.2	10.9	12.0	15.1	5.22	501	6.93	342	68.6	702	4920	2850	151 JN	181 JN	239	839	277 J
				DU-13 (0-1)B DU-13 (0-1)C	8/29/2022 8/29/2022	2.77 3.15	66.7 79.3	23.7 31.700	470 566	265 310	1020 1120	1940 1620	1.73 1.99	2.83 3.63	11.1 11.3	7.31 8.77	7.57 9.64	10.5 12.7	2.13 J 4.37	3.20 360	5.19 5.59	284 287	42.8 52.5	411 503	3060 3550	1920 2120	165 JN 125 JN	159 JN 163 JN	184 211	568 623	163 J 196 J
		-	OTTIK	. ,	Mean Concentration	3.27	87.7	32.5	610	336	1213	1800	2.04	3.60	11.5	8.99	9.74	12.8	3.91 J	288.1 J	5.90	304	54.6	539	3843	2297	147 JN	168 JN		677	212 J
					RSD	14.1%	24.4%	23.3%	22.3%	21.2%	17.0%	7.43%	13.5%	17.2%	4.1%	16.4%	18.6%	14.7%	33.36%	72.7%	12.6%	8.76%	19.5%	22.5%	20.5%	17.4%	11.3%	5.71%	10.6%	17.3%	22.7%
				Adjusted Re	RSD Evaluation sult for DU-13 (0-1)	Very Good 3.27	Very Good 87.7	Very Good 32.5	Very Good 610	Very Good 336	Very Good 1213	Very Good 1800	Very Good 2.04	Very Good 3.60	Very Good 11.5	Very Good 8.99	Very Good 9.74	Very Good 12.8	Very Good 3.91 J	Poor 501	Very Good 5.90	Very Good 304	Very Good 54.6	Very Good 539	Very Good 3843	Very Good 2297	Very Good	Very Good 168 JN	Very Good 211	Very Good 677	Very Good 212 J
					Adjusted Result for	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	Adjust Upward	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment
		-	1-2	DU-13 (1-2)A	8/30/2022	Needed 0.698	Needed 14.3	Needed 2.58	Needed 102	Needed 54.1	Needed 243	Needed 551	Needed 0.750	Needed 1.39 J	Needed 3.29	Needed 2.72	Needed 2.45 J	Needed 2.98	Needed 0.490 U	Using RSD 72.4	Needed 2.09 J	Needed 95.1	Needed 11.3	Needed 89.5	Needed 648	Needed 475	Needed 30.6 JN	Needed 44.9 JN	Needed 51.9	Needed 147	Needed 36.2 J
				DU-13 (1-2)B	8/30/2022	0.381 U	4.38	0.778 U	20.6	11.5	98.9	463	0.185 U	1.61 U	5.27	1.76 J	2.22 J	2.89	0.442 U	27.9	0.833 U	71.6	5.46	29.3	184	183	61.7 JN	77.2 JN	48.0	71.0	11.6 J
			1-2 FR	DU-13 (1-2)C	8/30/2022	0.499 0.526	10.6 9.76	1.93 J	62.6 61.7 J	34.5 33.4 J	170 171	436 483	0.828 0.588	2.28 U	6.44 5.00	2.39 J	2.89	3.87	0.628 U	49.3 49.9	1.31 J 1.41 J	69.7	10.4 9.05	69.4 62.7	413 415	326 328	88.2 JN	97.0 JN	57.4 52.4	104 107	26.4 J 24.7 J
Central	DU-13	ISM		,	Mean Concentration RSD	24.87%	41.9%	1.76 J 42.27%	53.8%	52.2%	34.5%	10.2%	48.8%	1.76 J 21.5%	26.0%	2.29 J 17.4%	2.52 J 11.0%	3.25 13.6%	0.628 U Not Detected	36.4%	36.7%	78.8 14.7%	28.4%	39.9%	45.6%	36.3%	60.2 JN 39.1%	73.0 JN 29.40%	7.35%	29.0%	40.9%
					RSD Evaluation		Good	Good	Poor	Poor	Very Good	Very Good	Good	Very Good	Very Good	Very Good	Very Good	Very Good	Not Detected	Good	Good	Very Good	Very Good	Good	Good	Good	Good	Very Good	Very Good	Very Good	Good
				,	sult for DU-13 (1-2) Adjusted Result for		9.76 No Adjustment	1.76 J No Adjustment	102 Adjust Upward Using	54.1 Adjust Upward Using	171 No Adjustment	483 No Adjustment	0.588 No Adjustment	1.76 J No Adjustment	5.00 No Adjustment	2.29 J No Adjustment	2.52 J No Adjustment	3.25 J No Adjustment	0.628 U No Adjustment	49.9 No Adjustment	1.41 J No Adjustment	78.8 No Adjustment	9.05 No Adjustment	62.7 No Adjustment	415 No Adjustment	328 No Adjustment	60.2 JN No Adjustment	73.0 JN No Adjustment	52.4 No Adjustment	107 No Adjustment	24.7 J No Adjustment
					ssociated DUs (1-2)	Needed	Needed	Needed	RSD	RSD	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Calculated	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed
				DU-13 (2-3)A DU-13 (2-3)B	8/31/2022 8/31/2022	0.208 U 0.363 U	10.9 4.36	4.23 0.856 U	78.9	39.3 13.4	171 114	467 509	0.106 U 0.163 U	1.42 U 1.3 U	2.09 J 3.45	0.47 U 2.02 J	0.437 U 2.31 J	2.50 2.70	0.659 U 0.319 U	54.1 34.7	0.616 U 0.823 U	74.9 85.6	6.38	67.3 26.7	519 191	328 204	20.8 JN 50.8 JN	27.9 55.3 JN	33.5 40.8	108 91.3	26.6 J 12.0 J
				DU-13 (2-3)B DU-13 (2-3)C	8/31/2022	0.571	4.30 8.19	1.73 J	26.5 47.3	24.8	186	708	0.630	0.802 J	2.26 J	2.02 J 1.51 J	2.31 J 2.00 J	2.70	0.319 U	52.9	1.58 J	120	4.10 8.28	58.6	449	330	50.8 JN 26.2 JN	36.9 JN	43.2	130	20.2 J
				,	Mean Concentration	0.381	7.82	2.27 J	50.9 42.32%	25.8	157	561	0.300 J	1.17 J	2.60 J	1.33 J	1.58 J	2.68	0.659 U	47.2	1.01 J	93.5	6.25	50.9	386	287	32.6 JN	40.0 JN	39.2	110	19.6 J
					RSD Evaluation	39.1% Good	34.32% Very Good	62.9% Poor	42.32% Good	41.0% Good	19.8% Very Good	18.7% Very Good	78.3% Poor	22.8% Very Good	23.3% Very Good	48.4% Good	51.8% Poor	5.1% Very Good	Not Detected Not Detected	18.8% Very Good	41.2% Good	20.6% Very Good	27.3% Very Good	34.3% Very Good	36.5% Good	20.5% Very Good	40.05% Good	28.48% Very Good	10.5% Very Good	14.4% Very Good	30.5% Very Good
		İ			sult for DU-13 (2-3)		7.82	4.23 J	50.9	25.8	157	561	0.630	1.17 J	2.60 J	1.33 J	2.31 J	2.68	0.659 U	47.2	1.01 J	93.5	6.25	50.9	386	287	32.6 JN	40.0 JN	39.2	110	19.6 J
					Adjusted Result for ssociated DUs (2-3)		No Adjustment Needed	Adjust Upward Using RSD	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	Adjust Upward Using RSD	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	Adjust Upward Using RSD	No Adjustment Needed	No Adjustment Calculated	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed
				DU-16 (0-1)A	, ,	3.21	64.3	25.4	358	192	1420	7200 J	1.32	2.6	9.07	9.34	10.4	14.5	2.99	383	17.0	575	40.5	367	2360	2500	52 JN	135 JN	297	946	152 J
				DU-16 (0-1)B DU-16 (0-1)C	9/12/2022 9/12/2022	3.62	101 102	29.8 34.1	635 743	302 286	1440 1590	4810 J 15000 J	1.09	2.09 J 2.8	9	8.27 9.12	9.25 9.56	12.9 13.8	2.92 3.24	440 453	10.0 12.6	391 462	48.4 52.9	574 574	3720 3730	2680 2930	50.4 JN 58.2 JN	125 141	239	855 943	228 J 244 J
			U-TFK	(- /-	Mean Concentration	3.59	89.1	29.8	579	260	1483	9003 J	1.34	2.50 J	9.49	8.91	9.74	13.7	3.05	425	13.2	476	47.3	505	3270	2703	53.5 JN	134 JN	266	915	208 J
Central	DU-16	ISM			RSD Evaluation	8.3% Very Good	19.7% Very Good	11.9% Very Good	28.0% Very Good	18.7% Very Good	5.1% Very Good	48.3% Good	15.6% Very Good	12.0% Very Good	6.79% Very Good	5.18% Very Good	4.99% Very Good	4.77% Very Good	4.50% Very Good	7.15% Very Good	21.9% Very Good	15.9% Very Good	10.8% Very Good	19.3% Very Good	19.7% Very Good	6.5% Very Good	6.28% Very Good	4.94% Very Good	8.93% Very Good	4.61% Very Good	19.3% Very Good
				Adjusted Re	sult for DU-16 (0-1)	3.59	89.1	29.8	579	260	1483	9003 J	1.34	2.50 J	9.49	8.91	9.74	13.7	3.05	425	13.2	476	47.3	505	3270	2703	53.5 JN	134 JN	266	915	208 J
					Adjusted Result for sociated DUs (0-1)	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment	No Adjustment Needed	No Adjustment Needed
			0-1	DU-18 (0-1)A	9/29/2022	1.05	21.5	8.89	152	84.6	576	2700	1.02	1.42 J	12.6	4.48	6.01	9.50	2.25 J	126	5.65	242	15.1	119	864	994	300 JN	273 JN	152	312	61.2 J
			0-1 FR	DU-18 (0-1)B	9/29/2022	0.708	13.8	6.11	96.5	54.4	642	4490 J	2.39	2.25 J	68.3	7.99	19.3	29.2	4.56	165	10.0	505	12.9	88.80	586	1120	1010 JN	1300 JN	473	521	66.8 J
		-	0-1 FR	DU-18 (0-1)C	9/29/2022 Mean Concentration	0.735 0.831	13.6 16.3	6.09 7.03	86.2 112	47.2 62.1	479 566	3030 3407 J	0.39 U 1.27 J	1.59 J 1.75 J	20.2 33.7 J	7.63 6.70	12.2 12.5	11.8 16.8 J	3.72 3.51 J	116 136	6.91 7.52	323 356.7	11.70 13.23	84.2 97.33	518 656	840 985	1040 783 JN	608 727 JN	198 274 J	333 389	45.0 J 57.7 J
					RSD	18.7%	22.6%	18.7%	25.9%	26.1%	11.8%	22.8%	65.9%	20.4%	73.2%	23.5%	43.4%	52.2%	27.2%	15.6%	24.3%	30.8%	10.6%	15.9%	22.8%	11.6%	43.7%	58.8%	51.7%	24.2%	16.0%
				Adjusted De	RSD Evaluation sult for DU-18 (0-1)	Very Good 0.831	Very Good 16.3	Very Good 7.03	Very Good 112	Very Good 62.1	Very Good 566	Very Good 3407 J	Poor 2.39	Very Good 1.75 J	Poor 68.3	Very Good 6.70	Good 12.5	Poor 29.2	Very Good 3.51 J	Very Good 136	Very Good 7.52	Very Good 356.7	Very Good 13.23	Very Good 97.3	Very Good 656	Very Good 985	Good 783 JN	Poor 1300 JN	Poor 473	Very Good 389	Very Good 57.7 J
					Adjusted Result for	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	Adjust Upward Using	No Adjustment	Adjust Upward Using	No Adjustment	No Adjustment	Adjust Upward Using	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	Adjust Upward Using		No Adjustment	No Adjustment
					ssociated DUs (0-1)	Needed	Needed	Needed	Needed	Needed	Needed	Needed	RSD	Needed	RSD	Needed	Needed	RSD	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	RSD	RSD	Needed	Needed
				DU-18 (1-2)A DU-18 (1-2)B	9/30/2022 9/30/2022	0.399 J 0.453	6.49 3.03	3.34 1.69 J	41 18	22.7 8.82	250 170	1,530 1,270	0.854 2.04	0.918 J 1.20 J	9.37 21.6	3.18 2.19 J	4.37 5.17	5.33 8.27	1.31 J 1.54 J	59.6 44.8	2.38 J 3.12	178 179	7.07 2.99	39.0 19.7	254 116	445 290	164 JN 329 JN	176 JN 370 JN	99.5 130	175 158	21.6 J 17.4 J
				DU-18 (1-2)C		0.250 U	3.03	0.337 U	15.8	10	177	1,280	0.264 U	1.59 U	5.61	1.80 J	2.61	3.68	0.509 U	41.5	2.39 J	167	1.54	18.2	112	310	102	98.6	56.7	139	10.9 J
Central	DU-18	ISM		1	Mean Concentration RSD	0.367 J 23.4%	4.18 39.0%	1.79 J 68.6%	24.9 45.7%	13.8 45.4%	199 18.2%	1,360 8.8%	1.05 J 70.2%	1.24 J 22.3%	12.2 J 56.0%	2.39 J 24.3%	4.05 26.4%	5.76 33.0%	1.12 J 39.5%	48.6 16.2%	2.63 J 13.2%	175 3.1%	3.87 J 60.5%	25.6 36.9%	161 41.1%	348 19.8%	198 JN 48.3%	215 JN	95.4 31.51%	157 9.3%	16.6 J 26.3%
Central	50-10	IOW			RSD Evaluation		Good	Poor	Good	45.4% Good	Very Good	Very Good	Poor	Very Good	Poor	Very Good	Very Good	Very Good	Good	Very Good	Very Good	Very Good	Poor	Good	41.1% Good	Very Good	40.3% Good	53.1% Poor	Very Good	9.5% Very Good	Very Good
					sult for DU-18 (1-2)	0.367 J	4.18	3.34 J	25	13.8	199	1,360	2.04	1.24 J	21.6	2.39 J	4.05	5.76	1.12 J	48.6	2.63 J	175	7.07	25.6	161	348	198 JN	370 JN	95.4	157	16.6 J
					Adjusted Result for ssociated DUs (1-2)	No Adjustment Needed	No Adjustment Needed	Adjust Upward Using RSD	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	Adjust Upward Using RSD	No Adjustment Needed	Adjust Upward Using RSD	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	Adjust Upward Using RSD	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	Adjust Upward Using RSD	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed
			2-3	DU-18 (2-3)A	10/3/2022	0.277 U	4.47	1.74 J	22.9	13.5	106	628	0.231 U	1.37 U	2.95	1.29 J	1.98 J	1.87 J	0.281 U	26.9	1.01 J	65.9	0.773	25.7	163	191	68.3 JN	57.5 JN	38.1	67.7	11.4 J
				DU-18 (2-3)B	10/3/2022	0.320	4.17	1.67 J 1.67 J	24.4 15.8	13.4 9.57	162 116	1,000 740	0.19 U 0.385	0.521 U 0.765 U	4.86 4.14	1.24 J 1.49 J	2.40 J 2.59	2.96 2.38 J	0.241 U	37.2	1.95 J 1.24 J	140 96.1	2.90 1.39	26.3 18.8	159 111	286 208	127 JN 172 JN	103 JN 110.0 JN	55.3 47.0	118	12.9 J
		-	2-3 FR	DU-18 (2-3)C	10/3/2022 Mean Concentration	0.169 U 0.255	2.79 3.81	1.67 J 1.69 J	21.0	12.2	116	740	0.385	1.37 U	3.98	1.49 J 1.34 J	2.59 2.32 J	2.38 J 2.40 J	0.272 U 0.281 U	27.5 30.5	1.24 J	96.1	1.39 1.69 J	23.6	111	208	1/2 JN 122 JN	110.0 JN 90.2 JN	47.0	84.6 90.1	9.2 J 11.2 J
					RSD	24.9%	19.20%	1.9%	17.83%	15.0%	19.1%	19.7%	30.9%	Not Detected	19.8%	8.06%	11.0%	18.5%	Not Detected	15.5%	28.6%	30.2%	52.9%	14.4%	16.4%	18.1%	34.7%	25.8%	15.0%	23.2%	13.602%
				Adjusted Re	RSD Evaluation sult for DU-18 (2-3)	Very Good 0.255	Very Good 3.81	Very Good	Very Good 21.0	Very Good 12.2	Very Good 128	Very Good 789	Very Good 0.269	Not Detected	Very Good 3.98	Very Good 1.34 J	Very Good 2.32 J	Very Good 2.40 J	Not Detected 0.281 U	Very Good 30.5	Very Good 1.40 J	Very Good 101	2.90	Very Good 23.6	Very Good	Very Good 228	Very Good 122 JN	Very Good 90.2 JN	Very Good 46.8	Very Good 90.1	Very Good 11.2 J
				Statistically	Adjusted Result for	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	Adjust Upward Using	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment
				As	ssociated DUs (2-3)	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Calculated	Needed	Needed	Needed	Needed	Calculated	Needed	Needed	Needed	RSD	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed

Table I-2 Soil Results - Dioxins/Furans Field Replicate Statistics and Evaluation Willamette Cove Upland Facility Portland, Oregon

																		Dioxins/Furans by E	PA Method 1613B												
De	cision Sa	ample	Sample		l f													Concentrati													
		Type	Depth (feet bgs)	Sample ID	Sample Date	2,3,7,8-TCDD	1,2,3,7,8-PeCDD	1,2,3,4,7,8-HxCDD	1,2,3,6,7,8-HxCDD	1,2,3,7,8,9-HxCDD	1,2,3,4,6,7,8- HpCDD	OCDD	2,3,7,8-TCDF	1,2,3,7,8-PeCDF	2,3,4,7,8-PeCDF	1,2,3,4,7,8-HxCDF	1,2,3,6,7,8-HxCDF	2,3,4,6,7,8-HxCDF	1,2,3,7,8,9-HxCDF	1,2,3,4,7,8-HpCDF	1,2,3,4,7,8,9-HpCDF	OCDF	Total TCDD	Total PeCDD	Total HxCDD	Total HpCDD	Total TCDF	Total PeCDF	Total HxCDF	Total HpCDF	Total D/F TEQ (Mammal)
				DU-22 (0-1)A	10/13/2022	0.846	9.71	5.58	63.1	31.5	438	2,810	1.26	1.88 J	12.5	4.09	3.68	8.59	2.24	79.1	3.27	209	6.11	59.0	390	776	164 J	201	141	223	32.5 J
				DU-22 (0-1)B	10/13/2022	0.464 J	4.68 9.02	3.91 4.890	42.0 44.6	17.3 22.8	543 482	3,940 3.150	1.00 1.76	1.72 J 2.54	12.3 14.2	4.57 5.09	5.28 5.96	8.08 10.5	2.24 J 2.23 J	77.3 79.5	3.66 3.44	213 174	4.83 7.22	28.8 42.7	213 285	915 929	177	203 235	153 156	232 202	24.8 J 30.3 J
		-	0-1 FR	DU-22 (0-1)C	10/13/2022 lean Concentration	0.525 0.612 J	7.80	4.690	44.0 50	23.9	488	3,300	1.76	2.04 2.05 J	13.0	4.58	4.97	9.06	2.23 J	78.6	3.46	199	6.05	43.5	296	929 873	176 J	213	150	219	29.2 J
					RSD	27.4%	28.5%	14.3%	18.8%	24.5%	8.8%	14.3%	23.6%	17.3%	6.56%	8.91%	19.22%	11.50%	0.21%	1.22%	4.62%	8.8%	16.1%	28.4%	24.6%	7.91%	5.56%	7.31%	4.32%	5.74%	11.1%
					RSD Evaluation	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good
				Adjusted Res	sult for DU-22 (0-1)	0.612 J	7.80	4.79	49.9	23.9	488	3,300	1.34	2.05 J	13.0	4.58	4.97	9.06	2.24 J	78.6	3.46	199	6.05	43.5	296	873	176 J	213	150	219	29.2 J
					Adjusted Result for		No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment
		L			sociated DUs (0-1)	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed
				DU-22 (1-2)A DU-22 (1-2)B	10/14/2022 10/14/2022	0.234 U 0.196 U	1.41 2.25	0.342 U 2.21	6.02 27.4	3.06 5.92	57.7 300	2,130	0.451 U 0.492	1.05 U 2.29 U	3.06 4.73	0.187 U 2.72	0.165 U 2.36	1.84 3.24	0.191 U 0.212 U	36.2	0.74 U 1.92	45.2 97.0	0.817 0.960	4.79 8.80	39.5 105	102 507	60.3 43.0	53.4 70.3	37.3 78.3	69.6 115	4.6 12.3
				DU-22 (1-2)B DU-22 (1-2)C	10/14/2022	0.196 U	1.55	1.54	11.0	3.68	186	1.270	0.492	1.97 U	3.29	1.94	1.65	2.79	0.196 U	22.1	0.810 U	54.4	0.432	5.57	54.6	313	46.8	54.0	48.8	64.5	7.5
					lean Concentration		1.74	1.36 J	14.8 J	4.22	181 J	1,261 J	0.468	2.29 U	3.69	1.62 J	1.39 J	2.62	0.212 U	27.2	1.16	65.5	0.736	6.39	66.4	307 J	50.0	59.2	54.8	83.0	8.1
Central	U-22 I	ISM				Not Detected	21.2%	56.65%	61.7%	29.1%	54.6%	56.6%	3.7%	Not Detected	20.0%	65.6%	65.7%	22.2%	Not Detected	23.6%	46.7%	34.4%	30.3%	27.2%	42.2%	53.8%	14.8%	13.2%	31.5%	27.3%	39.4%
					RSD Evaluation		Very Good	Poor	Poor	Very Good	Poor	Poor	Very Good	Not Detected	Very Good	Poor	Poor	Very Good	Not Detected	Very Good	Good	Very Good	Very Good	Very Good	Good	Poor	Very Good	Very Good	Very Good	Very Good	Good
					sult for DU-22 (1-2)		1.74	2.21	27.4	4.22	300	2,130	0.468	2.29 U	3.69	2.72	2.36	2.62	0.212 U	27.2	1.16	65.5	0.736	6.39	66.4	507	50.0	59.2	54.8	83.0	8.1
					Adjusted Result for sociated DUs (1-2)	No Adjustment Calculated	No Adjustment Needed	Adjust Upward Using RSD	Adjust Upward Using RSD	No Adjustment Needed	Adjust Upward Using RSD	Adjust Upward Using RSD	No Adjustment Needed	No Adjustment Calculated	No Adjustment Needed	Adjust Upward Using RSD	Adjust Upward Using RSD	No Adjustment Needed	No Adjustment Calculated	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	Adjust Upward Using RSD	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed
		-	2-3	DU-22 (2-3)A	10/14/2022	0.217 1	1.31 U	0.367 U	9.52	3 99	77.4	475	0.494 U	0.339 U	2.83	0.571 U	0.496 U	1.75	0.705 U	14.4	1.51 U	37.5	0.217 U	1 95	55.8	132	38.5	47.3	25.5	37.0	4.4
				DU-22 (2-3)R	10/14/2022	0.247 U	1.07 U	0.527 U	8.95	3.56	228	1,900	0.42 U	0.389 U	6.26	1.53	2.46	4.04	0.886 U	31.7	2.42	164	0.247 U	1.48	48.1	403	73.1	98.1	70.1	124	7.9
			2-3 FR	DU-22 (2-3)C	10/14/2022	0.266 U	1.19 U	0.411 U	7.44	3.75	102	727	0.445 U	0.273 U	3.47	0.489 U	1.72	2.22	0.582 U	15.3	1.02 U	44.9	0.266 U	1.19 U	44.5	177	61.8	68.6	36.1	49.1	4.8
				M	lean Concentration		1.31 U	0.527 U	8.64	3.77	136	1,034 J	0.494 U	0.389 U	4.19	0.863 J	1.56 J	2.67	0.886 U	20.5	1.65	82.1 J	0.266 U	1.54	49.5	237	57.8	71.3	43.9	70.0 J	5.7
					RSD Evaluation	Not Detected	Not Detected Not Detected	Not Detected Not Detected	10.16% Very Good	4.7% Very Good	48.6% Good	60.1% Poor	Not Detected Not Detected	Not Detected Not Detected	35.6% Good	54.7% Poor	52.0% Poor	37.0% Good	Not Detected Not Detected	38.9% Good	35.2% Good	70.6% Poor	Not Detected Not Detected	20.3% Very Good	9.5% Very Good	50.0% Good	24.9% Very Good	29.2% Very Good	43.3% Good	54.9% Poor	28.0% Very Good
		-		Adjusted Res	sult for DU-22 (2-3)	0.266	1.31 U	0.527 U	8.64	3.77	136	1.900	0.494 U	0.389 U	4.19	1.53	2.46	2.67	0.886 U	20.5	1.65	164	0.266 U	154	49.5	237	57.8	71.3	43.9	124	5.7
				.,	Adjusted Result for	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	Adjust Upward Using	No Adjustment	No Adjustment	No Adjustment	I I	Adjust Upward Using	No Adjustment	No Adjustment	No Adjustment	No Adjustment	Adjust Upward Using	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	Adjust Upward Using	No Adjustment
					sociated DUs (2-3)	Calculated	Calculated	Calculated	Needed	Needed	Needed	RSD	Calculated	Calculated	Needed	RSD	RSD	Needed	Calculated	Needed	Needed	RSD	Calculated	Needed	Needed	Needed	Needed	Needed	Needed	RSD	Needed
				DU-26 (0-1)A	11/9/2022	1.68	18.2	19.9	147	57.2	2,040 J	14,300 J	5.95	10.9	43.8	23.4	23.2	37.0	10.5	251	15.5	470	39.3	118	742	3,530	558	698	590	653	93.3 J
				DU-26 (0-1)B	11/9/2022	1.79	16.7	17.8	89.9	44.0	1,200	7,390 J	6.73	12.7	43.4	33.0	31.6	45.4	13.1	232	19.9	321	42.9	149	596	2,170	593	710	512	511	76.9 J
		-	0-1 FR	DU-26 (0-1)C	11/9/2022 lean Concentration	1.87	16.8 17.2	17.6 18.4	102 113	45.8 49.0	1,460 1.567 J	9,510 J 10.400 J	6.26	10.9 11.5	43.9 43.7	28.6 28.3	28.8	41.4 41.3	12.3 12.0	243	18.5 18.0	363 385	38.2 40.1	141	585 641	2,520 2.740	649 600	736 715	536 546	579 581	80.6 J 84 J
				W	RSD	4.38%	3.97%	5.6%	21.7%	11.9%	22.4%	27.8%	5.08%	7.38%	0.494%	13.8%	12.5%	8.31%	9.09%	3.22%	10.2%	16.3%	5.00%	9.66%	11.2%	21.0%	6.25%	2.22%	5.97%	9.98%	8.4%
					RSD Evaluation	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good
				Adjusted Res	sult for DU-26 (0-1)	1.78	17.2	18.4	113	49.0	1,567 J	10,400 J	6.31	11.5	43.7	28.3	27.9	41.3	12.0	242	18.0	385	40.1	136	641	2,740	600	715	546	581	84
					Adjusted Result for	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment
					sociated DUs (0-1)	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed
				DU-26 (1-2)A	11/10/2022	0.875	9.88	11.9	53.2 30.7	25.8	830 451	5,470 J	3.25	5.24	20.7	11.2	13.1	18.6	4.71	128	10.4	359	15.6	71.5	323	1,410	253 160	334	266	373	42.7 J
				DU-26 (1-2)B DU-26 (1-2)C	11/10/2022 11/10/2022	0.742 0.764	5.38 5.06	6.98 6.12	30.7	13.5 15.3	451 446	2,970 3.160	2.83 1.89	5.22 3.31	15.3 12.5	16.0 8.86	13.0 8.85	17.2 13.0	6.14 3.48	108 85.1	10.3 6.42	162 207	16.3 12.0	56.6 45.0	202 196	806 824	172	224 205	208 160	245 228	28.1 24.8
		F	1-2111	. ,	lean Concentration	0.794	6.77	8.33	38.0	18.2	576	3,867 J	2.66	4.59	16.2	12.0	11.7	16.3	4.78	107	9.04	243	14.6	57.7	240	1,013	195	254	211	282	31.9 J
Central	U-26 I	ISM			RSD	7.33%	32.5%	30.6%	28.2%	29.8%	31.2%	29.4%	21.4%	19.7%	21.1%	24.7%	17.0%	14.6%	22.8%	16.4%	20.5%	34.7%	12.9%	18.8%	24.3%	27.7%	21.2%	22.4%	20.5%	23.0%	24.4%
					RSD Evaluation	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good
				.,	sult for DU-26 (1-2)	0.794	6.77	8.33	38.0	18.2	576	3,867 J	2.66	4.59	16.2	12.0	11.7	16.3	4.78	107	9.04 J	243	14.6	57.7	240	1,013	195	254	211	282	31.9
				,	Adjusted Result for		No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment
		-	0.0		sociated DUs (1-2)	Needed 0.387	Needed 3.20	Needed 3.66	Needed	Needed 8.94	Needed 281	Needed 2,130	Needed	Needed 1.55 J	Needed	Needed	Needed 3.74	Needed 6.53	Needed	Needed	Needed 3.41	Needed 112	Needed 6 76	Needed 24.8	Needed 116	Needed 497	Needed 54.1	Needed 85.4	Needed 84.3	Needed 127	Needed 14.3 J
				DU-26 (2-3)A DU-26 (2-3)B	11/11/2022 11/11/2022	0.402 J	2.87	3.00 4.42	18.8 30.9	10.1	646	4,850 J	0.85 1.00	3.86	6.23 10.6	4.13 14.6	5.74	8.12	1.47 J 6.24	46.6 89.8	7.63	116	6.76 3.12	19.6	132	1,050	74.9	122	204	2,160	14.5 J 23.6 J
				DU-26 (2-3)C	11/11/2022	0.433 J	2.84	2.87	14.3	6.21	174	1,140	1.18	1.49 J	7.41	3.81	4.03	5.78	1.50 J	31.0	2.46	62.7	4.11	18.8	85.4	305	97.0	116	77.1	80.2	11.9 J
		F		(- / -	lean Concentration	0.407 J	2.97	3.65	21.3	8.42	367 J	2,707 J	1.01	2.30 J	8.08	7.51 J	4.57	6.81	3.07 J	55.8	4.50	96.9	4.66	21.1	111	617 J	75.3	108	122	789 J	16.6
					RSD	4.70%	5.49%	17.3%	32.9%	19.4%	55.1%	58.0%	13.4%	48.0%	22.8%	66.7%	21.3%	14.3%	73.0%	44.6%	49.9%	25.0%	33.0%	12.6%	17.4%	51.2%	23.25%	14.9%	47.8%	123%	30.3%
		L			RSD Evaluation	Very Good	Very Good	Very Good	Very Good	Very Good	Poor	Poor	Very Good	Good	Very Good	Poor	Very Good	Very Good	Poor	Good	Good	Very Good	Very Good	Very Good	Very Good	Poor	Very Good	Very Good	Good	Very Poor	Very Good
					sult for DU-26 (2-3)		2.97	3.65	21.3	8.42	646	4,850 J	1.01	2.30 J	8.08	14.6	4.57	6.81	6.24 J	55.8	4.50	96.9	4.66	21.1	111	1,050	75.3	108	122	2,160	16.6
					Adjusted Result for sociated DUs (2-3)		No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	Adjust Upward Using RSD	Adjust Upward Using RSD	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	Adjust Upward Using RSD	No Adjustment Needed	No Adjustment Needed	Adjust Upward Using RSD	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	Adjust Upward Using RSD	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	Adjust Upward Using RSD	No Adjustment Needed
	1			AS	3001816U DUS (2-3)	INCCUCU	iveeded	INCEUEU	iveeueu	iveeded	IVOU	IVOD	INCCUEU	iveeded	INCOURU	INOU	INCOURU	INCCUEU	IVOD	ivedueu	Iveeueu	ivedueu	iveeueu	iveeueu	iveeueu	IVOD	iveeded	INCCUEU	ivedueu	NOD	ivedueu

Table I-2
Soil Results - Dioxins/Furans Field Replicate Statistics and Evaluation
Willamette Cove Upland Facility
Portland, Oregon

																		Dioxins/Furans by E	DA Method 1613D												
	Decision	Sample	Sample		-													Concentration													
Parcel	Unit	Туре	Depth (feet bgs)	Sample ID Samp		2,3,7,8-TCDD	1,2,3,7,8-PeCDD	1,2,3,4,7,8-HxCDD	1,2,3,6,7,8-HxCDD	1,2,3,7,8,9-HxCDD	1,2,3,4,6,7,8- HpCDD	OCDD	2,3,7,8-TCDF	1,2,3,7,8-PeCDF	2,3,4,7,8-PeCDF	1,2,3,4,7,8-HxCDF	1,2,3,6,7,8-HxCDF	2,3,4,6,7,8-HxCDF	1,2,3,7,8,9-HxCDF	1,2,3,4,7,8-HpCDF	1,2,3,4,7,8,9-HpCDF	OCDF	Total TCDD	Total PeCDD	Total HxCDD	Total HpCDD	Total TCDF	Total PeCDF	Total HxCDF	Total HpCDF	Total D/F TEQ (Mammal)
			0-1	(. ,		0.243 U	5.05	5.91	46.9	16.1	836	5,470 J	2.74	3.31	6.19	7.78	5.56	7.17	4.07	81.6	4.52	115	3.50	22.1	193	1,350	45.5	74.3	174	241	27.6 J
			0-1 FR			0.451 J	4.31	6.37	46.4	15.2	876	5,530 J	3.64	4.29	6.72	7.77	5.27	7.21	4.71	88.5	4.92	113	6.48	26.9	204	1,420	44.5	76.1	179	245	27.9 J
			0-1 FR	DU-38 (0-1)C 11/14 Mean Con		0.664 0.453 J	5.52 4.96	7.250 6.51	45.5 46.3	17.1 16.1	881 864	5,830 J 5,610 J	3.31 3.23	3.56 3.72	5.63 6.18	7.57 7.71	5.86 5.56	7.98 7.45	4.44 4.41	87.1 85.7	5.53 4.99	149 126	9.91 6.63	38.2 29.1	223 207	1,430 1,400	46.3 45.4	72.9 74.4	176 176	250 245	29.4 J 28 J
				Wear Con	RSD	38.0%	10.0%	8.5%	1.3%	4.8%	2.3%	2.8%	11.5%	11.2%	7.20%	1.26%	4.33%	5.00%	5.95%	3.47%	8.32%	13.1%	39.5%	23.2%	6.00%	2.5%	1.62%	1.76%	1.17%	1.50%	2.7%
				RSD E	valuation	Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good
				Adjusted Result for DI		0.453 J	4.96	6.51	46.3	16.1	864	5,610 J	3.23	3.72	6.18	7.71	5.56	7.45	4.41	85.7	4.99	126	6.63	29.1	207	1,400	45.4	74.4	176	245	28
				Statistically Adjusted Associated		No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed						
			1-2		. ,	0.259 U	2.87	3.78	24.7	7.88	488	3,210	2.41	2.02 J	3.56	4.45	3.28	3.97	2.78	51.1	3.45	71.1	1 84	16.5	116	797	44.0	49.3	99.5	140	15.9 J
			1-2 FR	,		0.300 U	1.65 J	2.47 J	13.3	4.59	252	1,700	7.39	2.63	3.38	2.91	1.99 J	2.66	1.35 J	26.9	1.87 J	41.5	2.38	10.3	66.9	411	59.9	37.6	53.2	72.6	9.9 J
			1-2 FR	DU-38 (1-2)C 11/16	/2022	0.421	3.52	4.66	27.7	8.85	557	3,650	3.08	2.48 J	4.85	6.29	3.85	4.82	3.21	58.8	3.31	88.4	6.31	16.6	128	906	39.9	55.3	118	162	19.0 J
	D11.00	1014		Mean Con		0.327	2.68 J	3.64 J	21.9	7.11	432	2,853	4.29 J	2.38 J	3.93	4.55	3.04 J	3.82	2.45 J	45.6	2.88 J	67.0	3.51 J	14.5	104	705	47.9	47.4	90.2	125	14.9 J
East	DU-38	ISM		RSD F	-	21.05% Very Good	28.9% Very Good	24.7% Very Good	28.3% Very Good	25.7% Very Good	30.2% Very Good	29.3% Very Good	51.4% Poor	10.9% Very Good	16.7% Very Good	30.4% Very Good	25.6% Very Good	23.3% Very Good	32.5% Very Good	29.8% Very Good	24.8% Very Good	28.9% Very Good	56.8% Poor	20.4% Very Good	25.5% Very Good	30.1% Very Good	18.0% Very Good	15.5% Very Good	30.20% Very Good	30.5% Very Good	25.39% Very Good
				Adjusted Result for DI		0.327	2.68	3.64 J	21.9	7.11	432	2,853	7.39	2.38 J	3.93	4.55	3.04 J	3.82	2.45 J	45.6	2.88 J	67.0	6.31	14.5	104	705	47.9	47.4	90.2	125	14.9
				Statistically Adjusted	Result for 1	No Adjustment	Adjust Upward Using	No Adjustment	Adjust Upward Using	No Adjustment																					
				Associated		Needed	RSD	Needed	RSD	Needed																					
			2-3 2-3 FR			0.224 U 0.306 U	1.48 J 1.77 J	2.20 J 1.76 J	12.8 9.70	4.76 3.09	270 218	1,870 1,450	2.42 4.30	1.69 J 1.89 J	2.49 2.60	2.67 2.38 J	2.04 J 1.19 J	2.36 J 2.24 J	1.23 J 0.656 U	27.9 22.3	1.91 J 1.34 J	49.6 34.1	1.17 2.27	3.43 7.54	60.5 54.7	444 359	23.1 33.2	27.4 23.6	56.1 41.5	81.4 60.9	9.0 J 8.1 J
			2-3 FR 2-3 FR	` '		0.286 J	1.77 J	2.76	14.9	6.76	312	1,970	2.10	1.36 J	2.00 2.18 J	2.78	1.75 J	2.62	1.44 J	28.8	1.34 J	51.9	3.31	15.6	90.5	535	25.3	27.0	52.7	80.2	10.5 J
			20111	Mean Con		0.272 J	1.74 J	2.24 J	12.5	4.87	267	1,763	2.94	1.65 J	2.42 J	2.61 J	1.66 J	2.41 J	1.11 J	26.3	1.57 J	45.2	2.25	8.86 J	68.6	446	27.2	26.0	50.1	74.2	9.2 J
					RSD	12.8%	11.6%	18.3%	17.1%	30.8%	14.4%	12.8%	33.0%	13.3%	7.34%	6.46%	21.3%	6.59%	29.9%	10.9%	15.6%	17.5%	38.8%	57.1%	22.9%	16.1%	15.9%	6.56%	12.5%	12.7%	10.6%
				RSD E Adjusted Result for DU		Very Good 0.272 J	Very Good 1.74 J	Very Good 2.24 J	Very Good 12.5	Very Good 4.87	Very Good 267	Very Good 1.763	Very Good 2.94	Very Good 1.65 J	Very Good 2.42 J	Very Good 2.61 J	Very Good 1.66 J	Very Good 2.41	Very Good 1.11 U	Very Good 26.3	Very Good 1.57 J	Very Good 45.2	Good 2.25	Poor 15.6	Very Good 68.6	Very Good 446	Very Good 27.2	Very Good 26.0	Very Good 50.1	Very Good 74.2	Very Good 9.2
				Statistically Adjusted		No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	Adjust Upward Using	No Adjustment												
				Associated		Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	RSD	Needed												
			0-1	. (- /		2.75	44.9	81.2	421	175	8,440 J	51,100 J	4.13	16.8	43.8	59.1	40.9	59.6	23.8	642	39.1	858	23.1	169	2,080	15,200	190	732	1,250	1,830	254.6 J
			0-1 FR			2.36	33.4 35.6	56.8 63.1	315 342	123 140	6,450 J 7,200	40,400 J 43.900	4.47 3.79	14.2 14.9	40.3 35.3	46.9 50.2	28.5 33.4	51.4 54.6	20.6 21.3	546 573	35.3 35.3	849 828	22.7 22.8	138 146	1,510 1.690	11,800 13.200	208 195	643 618	1,080 1.190	1,530 1.640	195.6 J 211.4
			0-1110	Mean Con		2.53	38.0	67.0	359	146	7,363 J	45,133 J	4.130	15.30	39.8	52.1	34.3	55.2	21.9	587	36.6	845	22.9	151	1,760	13,400	198	664	1,173	1,667	221 J
					RSD	6.5%	13.1%	15.4%	12.5%	14.8%	11.1%	9.87%	6.7%	7.2%	8.76%	9.90%	14.88%	6.11%	6.27%	6.89%	4.90%	1.49%	0.743%	8.70%	13.5%	10.4%	3.84%	7.36%	6.00%	7.44%	11.3%
				RSD E Adjusted Result for DU		Very Good 2.53	Very Good 38.0	Very Good 67.0	Very Good 359	Very Good	Very Good 7,363	Very Good 45,133 J	Very Good 4.13	Very Good 15.3	Very Good 39.8	Very Good 52.1	Very Good 34.3	Very Good 55.2	Very Good 21.9	Very Good	Very Good 36.6	Very Good 845	Very Good 22.9	Very Good 151	Very Good 1,760	Very Good 13,400	Very Good	Very Good 664	Very Good 1,173	Very Good 1.667	Very Good 221
				Statistically Adjusted		No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment						
				Associated		Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed						
			1-2	DU-41 (1-2)A 10/26		2.09	39.2	71.2	390	161	7,780 J	43,600 J	3.44	14.6	50.4	53.7	40.1	58.2	20.4	627	39.1	946	21.1	162	1,790	13,100	417	942	1,390	1,730	234.5 J
			1-2 FR			1.73 2.66	33.2 42.5	72.1	316 413	125 166	6,570 J 7.870 J	37,900 J 43.500 J	3.55 3.94	13.4 15.9	44.7 49	43.6 53.5	32.7 36.7	49.9 59.2	19.0 24.2	569 630	33.6 34.4	849 770	20.0 23.90	127 164	1,570 1,900	11,600 13.100	374 334	860 833	1,210 1,350	1,580 1.670	197.0 J 241.8 J
			1-2111	Mean Con		2.16	38.3	67.4	373	151	7,407 J	41,667 J	3.64	14.6	48.0	50.3	36.5	55.8	21.2	609	35.7	855	21.7	151	1,753	12,600	375	878	1,317	1,660	224.4 J
Soil Berm	DU-41	ISM			RSD	17.7%	10.1%	8.86%	11.1%	12.1%	8.00%	6.39%	5.89%	6.98%	5.05%	9.38%	8.29%	7.47%	10.4%	4.61%	6.80%	8.4%	7.6%	11.3%	7.82%	5.61%	9.04%	5.28%	5.86%	3.71%	8.8%
						Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good						
				Adjusted Result for DI Statistically Adjusted	٠, /	2.16 No Adjustment	38.3 No Adjustment	67.4 No Adjustment	373 No Adjustment	No Adjustment	7,407 No Adjustment	41,667 J No Adjustment	3.64 No Adjustment	14.6 No Adjustment	48.0 No Adjustment	50.3 No Adjustment	36.5 No Adjustment	55.8 No Adjustment	21.2 No Adjustment	609 No Adjustment	35.7 No Adjustment	855 No Adjustment	21.7 No Adjustment	No Adjustment	1,753 No Adjustment	12,600 No Adjustment	375 No Adjustment	878 No Adjustment	1,317 No Adjustment	1,660 No Adjustment	224.4 No Adjustment
				Associated		Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed						
			2-3	DU-41 (2-3)A 10/28		1.33	26.2	49.4	276	98.4	4,960 J	29,300 J	2.52	10.4	32.9	31.5	26.5	39.6	14.8	416	24.5	660	12.0	100	1,130	8,280	252	600	857	1,180	154.6 J
			2-3 FR		LULL	1.11	16.8 22.6	32.1 42.0	187 235	68.4 85.0	3,390 J 4.350 J	21,600 J 27,100 J	1.80 2.57	7.44 9.55	22.2 26.9	26.7 32.1	19.0 21.7	26.9 34.3	12.1 14.3	305 375	19.5 23.3	598 563	9.68 11.4	66.2 88.5	764 979	5,720 7.330	158 205	390 484	625 785	928 1.050	106.0 J 134.7 J
			2-3 FK	DU-41 (2-3)C 10/28 Mean Con	LULL	1.23	21.9	42.0	233	83.9	4,350 J 4,233 J	26,000 J	2.30	9.13	27.3	30.1	22.4	33.6	13.7	365	22.4	607	11.0	84.9	958	7,110	205	491	756	1,050	134.7 J
						7.35%	17.7%	17.2%	15.6%	14.6%	15.3%	12.5%	15.3%	13.6%	16.0%	8.03%	13.8%	15.5%	8.54%	12.5%	9.50%	6.61%	8.92%	16.5%	15.7%	14.9%	18.7%	17.5%	12.8%	9.77%	15.1%
						Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good						
				Adjusted Result for DU	, ,	1.22	21.9	41.2	233	83.9	4,233 J	26,000 J	2.30	9.13	27.3	30.1	22.4	33.6	13.7	365	22.4	607	11.0	84.9	958	7,110	205	491	756	1,053	131.7 J
				Statistically Adjusted Associated		No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed						
Notes:	1	1	1		1 7			1																							

Notes:
ISM = Incremental Sampling Methodology.
bgs = Below ground surface.
EPA = United States Environmental Protection Agency.
FR = Field replicate. Field replicates are collected at different locations within the same ISM cell as the primary sample.

FR = Field replicates are collected at different locations within the same ISM cell as the primary sample. pg/g = Picograms per gram (parts per trillion).

Total IDF TEQ = Total 2.3,7.8-tetrachlorodibenzo-p-dioxin toxic equivalent

Mean Concentration = Arithmetic mean calculation for the field replicates. Mean concentrations are calculated using the detection limit (DL) if the target analyte is not detected. If all the three field replicates are not detected for the target analyte, then the maximum DL is used for the final result. RSD = Relative Standard Deviation. RSDs are calculated using the DL if the target analyte is not detected.

RSD Evaluation = RSD ≤35% is "Very Good" precision, RSD >35% but ≤50% is "Good" precision, RSD >50% but ≤100% is "Poor" precision, RSD >100% is "Very Poor" precision.

U = Analyte was not detected.

J = Result is estimated.

Table I-3 Soil Results - PCB Aroclors Field Replicate Statistics and Evaluation Willamette Cove Upland Facility Portland, Oregon

										PCBs by EPA	Method 8082A				
Parcel	Decision	Sample	Sample Depth	Sample ID	Sample Date					Concentrati	ons in µg/kg				
raicei	Unit	Туре	(feet bgs)	Sample ID	Sample Date	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268	Total PCB Aroclors
			0-1	DU-5 (0-1)A	7/22/2022	4.99 U	4.99 U	4.99 U	5.67 J	4.99 U	38.9 J	28.0 J	4.99 U	4.99 U	87.5 J
			0-1 FR	DU-5 (0-1)B	7/22/2022	4.71 U	4.71 U	4.71 U	4.71 U	4.71 U	23.9 J	32.5 J	4.71 U	4.71 U	72.9 J
			0-1 FR	DU-5 (0-1)C	7/22/2022	5.04 U	10.1 U	5.04 U	5.04 U	5.04 U	116 J	41.0 J	5.04 U	5.04 U	177 J
				N	Mean Concentration	5.04 U	10.1 U	5.04 U	5.14 J	5.04 U	59.6 J	33.8 J	5.04 U	5.04 U	112 J
					RSD	Not Detected	Not Detected	Not Detected	7.75%	Not Detected	67.7%	15.9%	Not Detected	Not Detected	40.9%
					RSD Evaluation	Not Detected	Not Detected	Not Detected	Very Good	Not Detected	Poor	Very Good	Not Detected	Not Detected	Good
				Adjusted R	esult for DU-5 (0-1)	5.04 U	10.1 U	5.04 U	5.14 J	5.04 U	116 J	33.8 J	5.04 U	5.04 U	112 J
					Adjusted Result for sociated DUs (0-1)	No Adjustment Calculated	No Adjustment Calculated	No Adjustment Calculated	No Adjustment Needed	No Adjustment Calculated	Adjust Upward Using RSD	No Adjustment Needed	No Adjustment Calculated	No Adjustment Calculated	No Adjustment Needed
			1-2	DU-5 (1-2)A	7/25/2022	4.84 U	9.68 U	15.7 U	4.84 U	4.84 U	60.4 J	58.1 J	4.84 U	4.84 U	143 J
			1-2 FR	DU-5 (1-2)B	7/25/2022	4.88 U	4.88 U	4.88 U	4.88 U	4.88 U	56.9 J	49.9 J	4.88 U	4.88 U	124 J
			1-2 FR	DU-5 (1-2)C	7/25/2022	4.81 U	9.62 U	4.81 U	4.81 U	4.81 U	42.2 J	32.6 J	4.81 U	4.81 U	94.0 J
				N.	Mean Concentration	4.88 U	9.68 U	15.7 U	4.88 U	4.88 U	53.2 J	46.9 J	4.88 U	4.88 U	120 J
West	DU-5	ISM			RSD	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	14.8%	22.7%	Not Detected	Not Detected	16.7%
					RSD Evaluation	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Very Good	Very Good	Not Detected	Not Detected	Very Good
				,	esult for DU-5 (1-2)	4.88 U	9.68 U	15.7 U	4.88 U	4.88 U	53.2 J	46.9 J	4.88 U	4.88 U	120 J
				,	Adjusted Result for	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment
					sociated DUs (1-2)	Calculated 4.91 U	Calculated 4.91 U	Calculated 4.91 U	Calculated 4.91 U	Calculated 4.91 U	Needed 51.3 J	Needed 27.0 J	Calculated 4.91 U	Calculated 4.9 U	Needed 95.5 J
			2-3 2-3 FR	DU-5 (2-3)A DU-5 (2-3)B	7/26/2022 7/26/2022	4.91 U	4.91 U	4.91 U	4.91 U	4.91 U	49.8 J	27.0 J 27.6 J	4.91 U	4.9 U	95.5 J 94.2 J
			2-3 FR 2-3 FR	DU-5 (2-3)B DU-5 (2-3)C	7/26/2022	4.92 U	4.92 U	4.92 U	4.92 U	4.92 U	4.92 U	367	4.92 U	4.92 U	387
			2-3110	. ,	Mean Concentration	4.92 U	4.92 U	4.92 U	4.92 U	4.92 U	35.3 J	141 J	4.92 U	4.92 U	192 J
					RSD	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	60.9%	114%	Not Detected	Not Detected	71.6%
					RSD Evaluation	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Poor	Very Poor	Not Detected	Not Detected	Poor
				Adjusted R	esult for DU-5 (2-3)	4.92 U	4.92 U	4.92 U	4.92 U	4.92 U	51.3 J	367	4.92 U	4.92 U	387
				Statistically	Adjusted Result for	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	Adjust Upward	Additional Data	No Adjustment	No Adjustment	Adjust Upward
				Ás	sociated DUs (2-3)	Calculated	Calculated	Calculated	Calculated	Calculated	Úsing RSD	Review Needed	Calculated	Calculated	Úsing RSD

Table I-3 Soil Results - PCB Aroclors Field Replicate Statistics and Evaluation Willamette Cove Upland Facility Portland, Oregon

										PCBs by EPA	Method 8082A				
Parcel	Decision	Sample	Sample Depth	Sample ID	Sample Date					Concentration	ons in µg/kg				
Parcei	Unit	Туре	(feet bgs)	Sample ID	Sample Date	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268	Total PCB Aroclors
			0-1	DU-11 (0-1)A	8/10/2022	4.9 U	8.89 J	10.9 J	4.90 U	4.90 U	36.9 J				
			0-1 FR	DU-11 (0-1)B	8/10/2022	5.03 U	6.91 J	9.72 J	5.03 U	5.03 U	34.2 J				
			0-1 FR	DU-11 (0-1)C	8/10/2022	4.98 U	6.55 J	9.95 J	4.98 U	4.98 U	33.9 J				
				N	lean Concentration	5.03 U	5.0 U	5.03 U	5.03 U	5.03 U	7.45 J	10.2 J	5.03 U	5.03 U	35.0 J
					RSD	Not Detected	13.8%	5.01%	Not Detected	Not Detected	3.86%				
					RSD Evaluation	Not Detected	Very Good	Very Good	Not Detected	Not Detected	Very Good				
				Adjusted Re	sult for DU-11 (0-1)	5.03 U	5.0 U	5.03 U	5.03 U	5.03 U	7.45 J	10.2 J	5.03 U	5.03 U	35.0 J
				Statistically	Adjusted Result for	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment				
				As	sociated DUs (0-1)	Calculated	Calculated	Calculated	Calculated	Calculated	Needed	Needed	Calculated	Calculated	Needed
			1-2	DU-11 (1-2)A	8/10/2022	5.10 U	8.13 J	11.2 J	5.10 U	5.10 U	37.2 J				
			1-2 FR	DU-11 (1-2)B	8/10/2022	5.02 U	7.58 J	11.8 J	5.02 U	5.02 U	37.0 J				
			1-2 FR	DU-11 (1-2)C	8/10/2022	4.94 U	6.06 J	10.5 J	4.94 U	4.94 U	33.9 J				
				N	lean Concentration	5.10 U	7.26 J	11.2 J	5.10 U	5.10 U	36.0 J				
Central	DU-11	ISM			RSD	Not Detected	12.1%	4.76%	Not Detected	Not Detected	4.22%				
					RSD Evaluation	Not Detected	Very Good	Very Good	Not Detected	Not Detected	Very Good				
				Adjusted Re	sult for DU-11 (1-2)	5.10 U	7.26 J	11.2 J	5.10 U	5.10 U	36.0 J				
					Adjusted Result for sociated DUs (1-2)	No Adjustment Calculated	No Adjustment Needed	No Adjustment Needed	No Adjustment Calculated	No Adjustment Calculated	No Adjustment Needed				
			2-3	DU-11 (2-3)A	8/10/2022	4.91 U	8.30 J	13.4 J	4.91 U	4.91 U	38.9 J				
			2-3 FR	DU-11 (2-3)B	8/10/2022	4.90 U	9.36 J	11.4 J	4.90 U	4.90 U	37.9 J				
			2-3 FR	DU-11 (2-3)C	8/10/2022	4.77 U	6.71 J	10.9 J	4.77 U	4.77 U	34.3 J				
				, ,	lean Concentration	4.91 U	8.12 J	11.9 J	4.91 U	4.91 U	37.0 J				
					RSD	Not Detected	13.4%	9.08%	Not Detected	Not Detected	5.32%				
					RSD Evaluation	Not Detected	Very Good	Very Good	Not Detected	Not Detected	Very Good				
				Adjusted Re	sult for DU-11 (2-3)	4.91 U	8.12 J	11.9 J	4.91 U	4.91 U	37.0 J				
				Statistically	Adjusted Result for	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment				
				As	sociated DUs (2-3)	Calculated	Calculated	Calculated	Calculated	Calculated	Needed	Needed	Calculated	Calculated	Needed

Table I-3 Soil Results - PCB Aroclors Field Replicate Statistics and Evaluation Willamette Cove Upland Facility Portland, Oregon

			I							PCBs by EPA	Method 8082A				
Parcel	Decision	Sample	Sample Depth	Sample ID	Sample Date					Concentration	ons in µg/kg				
Parcei	Unit	Туре	(feet bgs)	Sample ID	Sample Date	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268	Total PCB Aroclors
			0-1	DU-13 (0-1)A	8/29/2022	5.02 U	23.5 J	9.40 J	5.02 U	5.02 U	50.5 J				
			0-1 FR	DU-13 (0-1)B	8/29/2022	4.97 U	39.5 J	13.2 J	4.97 U	4.97 U	70.1 J				
			0-1 FR	DU-13 (0-1)C	8/29/2022	4.99 U	28.2 J	12.2 J	4.99 U	4.99 U	57.9 J				
				N	lean Concentration	5.02 U	30.4 J	11.6 J	5.02 U	5.02 U	59.5 J				
					RSD	Not Detected	22.1%	13.9%	Not Detected	Not Detected	13.6%				
					RSD Evaluation	Not Detected	Very Good	Very Good	Not Detected	Not Detected	Very Good				
				Adjusted Res	sult for DU-13 (0-1)	5.02 U	30.4 J	11.6 J	5.02 U	5.02 U	59.5 J				
			Statistically Adjusted Result for Associated DUs (0-1)			No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment				
					` '	Calculated	Calculated	Calculated	Calculated	Calculated	Needed	Needed	Calculated	Calculated	Needed
			1-2	DU-13 (1-2)A	8/30/2022	4.90 U	5.91 J	4.90 U	4.90 U	4.90 U	25.5 J				
			1-2 FR	DU-13 (1-2)B	8/30/2022	4.98 U	7.25 J	4.98 U	4.98 U	4.98 U	27.2 J				
			1-2 FR	DU-13 (1-2)C	8/30/2022	4.86 U	6.98 J	4.86 U	4.86 U	4.86 U	26.4 J				
				N	lean Concentration	4.98 U	6.71 J	4.98 U	4.98 U	4.98 U	26.4 J				
Central	DU-13	ISM			RSD	Not Detected	8.62%	Not Detected	Not Detected	Not Detected	2.57%				
					RSD Evaluation	Not Detected	Very Good	Not Detected	Not Detected	Not Detected	Very Good				
				•	sult for DU-13 (1-2)	4.98 U	6.71 J	4.98 U	4.98 U	4.98 U	26.4 J				
					Adjusted Result for	No Adjustment Calculated	No Adjustment Needed	No Adjustment Calculated	No Adjustment Calculated	No Adjustment Calculated	No Adjustment Needed				
					sociated DUs (1-2)										
			2-3	DU-13 (2-3)A	8/31/2022	4.93 U 5.01 U	4.93 U 5.01 U	4.93 U 5.01 U	4.93 U 5.01 U	4.93 U	10.8 J	4.93 U 5.01 U	4.93 U	4.93 U 5.01 U	30.5 J 33.0 J
			2-3 FR 2-3 FR	DU-13 (2-3)B DU-13 (2-3)C	8/31/2022 8/31/2022	4.89 U	5.01 U 4.89 U	4.89 U	5.01 U 4.89 U	5.01 U 4.89 U	13.0 J 12.1 J	4.89 U	5.01 U 4.89 U	5.01 U 4.89 U	33.0 J 31.7 J
			2-3 FK	\ /	lean Concentration	5.01 U	12.0 J	5.01 U	5.01 U	5.01 U	31.7 J				
				iv	RSD	Not Detected	7.55%	Not Detected	Not Detected	Not Detected	31.7 J 3.25%				
					RSD Evaluation	Not Detected	Very Good	Not Detected	Not Detected	Not Detected	Very Good				
				Adjusted Res	sult for DU-13 (2-3)	5.01 U	12.0 J	5.01 U	5.01 U	5.01 U	31.7 J				
				•	Adjusted Result for	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment				
				, ,	sociated DUs (2-3)	Calculated	Calculated	Calculated	Calculated	Calculated	Needed	Calculated	Calculated	Calculated	Needed

Table I-3 Soil Results - PCB Aroclors Field Replicate Statistics and Evaluation Willamette Cove Upland Facility Portland, Oregon

			Sample							PCBs by EPA					
Parcel	Decision	Sample	Depth	Sample ID	Sample Date					Concentrati	ons in µg/kg	ı	ı		
. 4.00.	Unit	Туре	(feet bgs)	Cap.c 12	Cumpio Dato	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268	Total PCB Aroclors
			0-1	DU-16 (0-1)A	9/12/2022	4.75 U	7.47 J	7.39 J	4.75 U	4.75 U	31.5 J				
			0-1 FR	DU-16 (0-1)B	9/12/2022	4.79 U	6.65 J	5.69 J	4.79 U	4.79 U	29.1 J				
			0-1 FR	DU-16 (0-1)C	9/12/2022	5.02 U	8.66 J	8.33 J	5.02 U	5.02 U	34.6 J				
				M	lean Concentration	5.02 U	7.59 J	7.14 J	5.02 U	5.02 U	31.7 J				
Central	DU-16	ISM			RSD	Not Detected	10.9%	15.3%	Not Detected	Not Detected	7.04%				
					RSD Evaluation	Not Detected	Very Good	Very Good	Not Detected	Not Detected	Very Good				
				•	ult for DU-16 (0-1)	5.02 U	7.59 J	7.14 J	5.02 U	5.02 U	31.7 J				
				,	Adjusted Result for sociated DUs (0-1)	No Adjustment Calculated	No Adjustment Needed	No Adjustment Needed	No Adjustment Calculated	No Adjustment Calculated	No Adjustment Needed				
			0-1	DU-18 (0-1)A	9/29/2022	4.94 U	8.94 J	4.94 U	4.94 U	4.94 U	28.7 J				
			0-1 FR	DU-18 (0-1)B	9/29/2022	4.87 U	38.9 JN	4.87 U	4.87 U	4.87 U	58.4 J				
			0-1 FR	DU-18 (0-1)C	9/29/2022	5.06 U	20.8 J	10.1 U	5.06 U	5.06 U	43.6 J				
				M	lean Concentration	5.06 U	22.9 J	10.1 U	5.06 U	5.06 U	43.5				
					RSD	Not Detected	53.8%	Not Detected	Not Detected	Not Detected	27.8%				
					RSD Evaluation	Not Detected	Poor	Not Detected	Not Detected	Not Detected	Very Good				
				,	sult for DU-18 (0-1)	5.06 U	38.9 J	10.1 U	5.06 U	5.06 U	43.5				
				,	Adjusted Result for sociated DUs (0-1)	No Adjustment Calculated	Adjust Upward Using RSD	No Adjustment Calculated	No Adjustment Calculated	No Adjustment Calculated	No Adjustment Needed				
			1-2	DU-18 (1-2)A	9/30/2022	4.62 U	12.2 J	5.19 J	4.62 U	4.62 U	33.6 J				
			1-2 FR	DU-18 (1-2)B	9/30/2022	4.68 U	7.79 J	4.68 U	4.68 U	4.68 U	26.5 J				
			1-2 FR	DU-18 (1-2)C	9/30/2022	4.96 UJ 4.96 UJ	4.96 UJ	4.96 UJ	44.64 UJ						
				M	lean Concentration	4.75 U	4.75 <u>U</u>	4.75 U	4.75 U	4.75 U	8.32 U	4.94 J	4.75 U	4.75 U	34.9 J
Central	DU-18	ISM			RSD	Not Detected	35.82%	4.22%	Not Detected	Not Detected	21.38%				
					RSD Evaluation	Not Detected	Good	Very Good	Not Detected	Not Detected	Very Good				
					sult for DU-18 (1-2)	4.96 U	8.32 J	4.94 J	4.96 U	4.96 U	34.9 J				
					Adjusted Result for sociated DUs (1-2)	No Adjustment Calculated	No Adjustment Needed	No Adjustment Needed	No Adjustment Calculated	No Adjustment Calculated	No Adjustment Needed				
			2-3	DU-18 (2-3)A	10/3/2022	4.93 U	5.92 J	4.93 U	4.93 U	4.93 U	25.6 J				
			2-3 FR	DU-18 (2-3)B	10/3/2022	4.89 U	10.1 J	4.89 U	4.89 U	4.89 U	29.7 J				
			2-3 FR	DU-18 (2-3)C	10/3/2022	4.87 U	12.1 J	4.87 U	4.87 U	4.87 U	31.6 J				
				M	lean Concentration	4.93 U	9.37 J	4.93 U	4.93 U	4.93 U	29.0 J				
					RSD	Not Detected	27.47%	Not Detected	Not Detected	Not Detected	8.55%				
					RSD Evaluation	Not Detected	Very Good	Not Detected	Not Detected	Not Detected	Very Good				
				,	sult for DU-18 (2-3)	4.93 U	9.37 J	4.93 U	4.93 U	4.93 U	29.0 J				
				,	Adjusted Result for	No Adjustment No Adjustment	No Adjustment	No Adjustment	No Adjustment						
				As	sociated DUs (2-3)	Calculated	Calculated	Calculated	Calculated	Calculated	Needed	Calculated	Calculated	Calculated	Needed

Table I-3 Soil Results - PCB Aroclors Field Replicate Statistics and Evaluation Willamette Cove Upland Facility Portland, Oregon

										PCBs by EPA	Method 8082A				
l <u>.</u> .	Decision	Sample	Sample							Concentration	ons in µg/kg				
Parcel	Unit	Туре	Depth (feet bgs)	Sample ID	Sample Date	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268	Total PCB Aroclors
			0-1	DU-22 (0-1)A	10/13/2022	4.85 U	4.85 U	4.85 U	4.85 U						
			0-1 FR	DU-22 (0-1)B	10/13/2022	4.97 U	15.3 J	9.91 J	5.0 U	4.97 U	42.6 J				
			0-1 FR	DU-22 (0-1)C	10/13/2022	5.01 U	9.15 J	17.1 J	5.01 U	5.01 U	43.8 J				
				N	lean Concentration	5.01 U	9.77 J	10.6 J	5.01 U	5.01 U	30.4 J				
					RSD	Not Detected	43.9%	47.3%	Not Detected	Not Detected	59.5%				
					RSD Evaluation	Not Detected	Good	Good	Not Detected	Not Detected	Poor				
				,	sult for DU-22 (0-1)	5.01 U	9.77 J	10.6 U	5.01 U	5.01 U	43.8 J				
				,	Adjusted Result for	No Adjustment	No Adjustment	No Adjustment	Adjust Upward						
					sociated DUs (0-1)	Calculated	Calculated	Calculated	Calculated	Calculated	Needed	Needed	Calculated	Calculated	Using RSD
			1-2	DU-22 (1-2)A	10/14/2022	4.99 U 4.98 U	4.99 U	4.99 U	4.99 U 4.98 U	4.99 U	4.99 U	4.99 U	4.99 U	4.99 U	4.99 U
			1-2 FR	DU-22 (1-2)B	10/14/2022	4.98 U 4.91 U	5.92 J 4.91 U	4.98 U 4.91 U	4.98 U 4.91 U	25.8 J 4.91 U					
			1-2 FR	DU-22 (1-2)C	10/14/2022 lean Concentration	4.99 U	5.27 J	4.99 U	4.99 U	11.9 J					
				IV	RSD	Not Detected	8.69%	Not Detected	Not Detected	82.7%					
Central	DU-22	ISM			RSD Evaluation	Not Detected	Very Good	Not Detected	Not Detected	Poor					
				Adjusted Do	sult for DU-22 (1-2)	4.99 U	5.27 J	4.99 U	4.99 U	25.8 J					
					Adjusted Result for	No Adjustment	No Adjustment	No Adjustment	Adjust Upward						
				,	sociated DUs (1-2)	Calculated	Calculated	Calculated	Calculated	Calculated	Calculated	No Adjustment Needed	Calculated	Calculated	Using RSD
			2-3	DU-22 (2-3)A	10/14/2022	5.03 U	5.03 U	5.03 U	5.03 U						
			2-3 2-3 FR	DU-22 (2-3)A DU-22 (2-3)B	10/14/2022	4.79 U	4.8 U	4.79 U	4.8 U	4.79 U	4.79 U				
			2-3 FR	DU-22 (2-3)C	10/14/2022	5.00 U	5.00 U	5.00 U	5.00 U						
			-	N	lean Concentration	5.03 U	5.03 U	5.03 U	5.03 U						
					RSD	Not Detected	Not Detected	Not Detected	Not Detected						
					RSD Evaluation	Not Detected	Not Detected	Not Detected	Not Detected						
				Adjusted Res	sult for DU-22 (2-3)	5.03 U	5.03 U	5.03 U	5.03 J						
				Statistically	Adjusted Result for	No Adjustment	No Adjustment	No Adjustment	No Adjustment						
				As	sociated DUs (2-3)	Calculated	Calculated	Calculated	Calculated						

Table I-3 Soil Results - PCB Aroclors Field Replicate Statistics and Evaluation Willamette Cove Upland Facility Portland, Oregon

										PCBs by EPA	Method 8082A				
B	Decision	Sample	Sample	0	0					Concentrati	ons in µg/kg				
Parcel	Unit	Type	Depth (feet bgs)	Sample ID	Sample Date	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268	Total PCB Aroclors
			0-1	DU-26 (0-1)A	11/9/2022	4.93 U 122 J	4.93 U	45.9 J	185 J						
			0-1 FR	DU-26 (0-1)B	11/9/2022	4.71 U	20.8 J	46.7 J	4.71 U	4.71 U	84.0 J				
			0-1 FR	DU-26 (0-1)C	11/9/2022	4.96 U	23.6 J	48.1 J	4.96 U	4.96 U	89.1 J				
				N	Mean Concentration	4.96 U	16.4 J	72.3 J	4.96 U	18.5 J	119 J				
					RSD	Not Detected	50.0%	48.7%	Not Detected	105%	38.9%				
					RSD Evaluation	Not Detected	Good	Good	Not Detected	Very Poor	Good				
				Adjusted Re	sult for DU-26 (0-1)	4.96 U	16.4 J	72.3 J	4.96 U	45.9 J	119				
				,	Adjusted Result for	No Adjustment No Adjustment	No Adjustment	Adjust Upward	No Adjustment						
				1-2 DU-26 (1-2)A 11	sociated DUs (0-1)	Calculated	Calculated	Calculated	Calculated	Calculated	Needed	Needed	Calculated	Using RSD	Needed
					11/10/2022	4.88 U 51.00	4.88 U	4.88 U	70.5						
			1-2 FR	` '	11/10/2022	5.05 U	17.5 J	27.5 J	5.1 U	5.05 U	62.7 J				
			1-2 FR	DU-26 (1-2)C	11/10/2022	4.99 U 40.2	4.99 U	4.99 U	60.2						
				N	Mean Concentration RSD	5.05 U Not Detected	9.12 J 64.9%	39.57 J 24.27%	5.05 U	5.05 U Not Detected	64.5 J				
Central	DU-26	ISM			RSD Evaluation	Not Detected Not Detected	Not Detected	Not Detected	Not Detected	Not Detected Not Detected	64.9% Poor	Very Good	Not Detected Not Detected	Not Detected Not Detected	6.8% Very Good
				Adjusted Da	sult for DU-26 (1-2)	5.05 U	17.5 J	39.57 J	5.05 U	5.05 U	64.5				
				,	` ′										**
					Adjusted Result for sociated DUs (1-2)	No Adjustment Calculated	Adjust Upward Using RSD	No Adjustment Needed	No Adjustment Calculated	No Adjustment Calculated	No Adjustment Needed				
			2-3	DU-26 (2-3)A	11/11/2022	5.05 U 14.9	5.05 U	5.05 U	35.1						
			2-3 FR	DU-26 (2-3)B	11/11/2022	4.93 U 169	4.93 U	4.93 U	189						
			2-3 FR	DU-26 (2-3)C	11/11/2022	5.01 U 21.5	5.01 U	5.01 U	41.5						
				N	Mean Concentration	5.05 U 68.5 J	5.05 U	5.05 U	88.5 J						
					RSD	Not Detected 1.04	Not Detected	Not Detected	80.27%						
					RSD Evaluation	Not Detected Very Poor	Not Detected	Not Detected	Poor						
				Adjusted Re	sult for DU-26 (2-3)	5.05 U	5.05 J	169	5.05 U	5.05 U	189				
				,	Adjusted Result for	No Adjustment Adjust Upward	No Adjustment	No Adjustment	Adjust Upward						
				As	sociated DUs (2-3)	Calculated	Calculated	Calculated	Calculated	Calculated	Calculated	Using RSD	Calculated	Calculated	Using RSD

Table I-3 Soil Results - PCB Aroclors Field Replicate Statistics and Evaluation Willamette Cove Upland Facility Portland, Oregon

										PCBs by EPA	Method 8082A				
Parcel	Decision	Sample	Sample Depth	Sample ID	Sample Date					Concentrati	ons in µg/kg				
raicei	Unit	Туре	(feet bgs)	Sample ID	Sample Date	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268	Total PCB Aroclors
			0-1	DU-38 (0-1)A	11/14/2022	5.03 U	10.3 J	9.57 J	5.03 U	5.03 U	37.5 J				
			0-1 FR	DU-38 (0-1)B	11/14/2022	5.00 U	10.7 J	13.0 J	5.00 U	5.00 U	41.2 J				
			0-1 FR	DU-38 (0-1)C	11/14/2022	4.99 U	10.5 J	13.1 J	4.99 U	4.99 U	41.1 J				
				N	lean Concentration	5.03 U	10.5 J	11.9 J	5.03 U	5.03 U	39.9 J				
					RSD	Not Detected	1.56%	13.8%	Not Detected	Not Detected	4.3%				
					RSD Evaluation	Not Detected	Very Good	Very Good	Not Detected	Not Detected	Very Good				
				Adjusted Re	sult for DU-38 (0-1)	5.03 U	10.5 J	11.9 U	5.03 U	5.03 U	39.9				
			Statistically Adjusted Result for Associated DUs (0-1)			No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment				
					` '	Calculated	Calculated	Calculated	Calculated	Calculated	Needed	Needed	Calculated	Calculated	Needed
			1-2	DU-38 (1-2)A	11/16/2022	5.03 U	14.0 J	12.8 J	5.03 U	5.03 U	44.4 J				
			1-2 FR	DU-38 (1-2)B	11/16/2022	5.02 U	13.7 J	5.74 J	5.02 U	5.02 U	37.0 J				
			1-2 FR	DU-38 (1-2)C	11/16/2022	5.05 U	9.88 J	7.51 J	5.05 U	5.05 U	35.1 J				
				N	lean Concentration	5.05 U	12.5 J	8.68 J	5.05 U	5.05 U	38.8 J				
East	DU-38	ISM			RSD	Not Detected	15.0%	34.5%	Not Detected	Not Detected	10.4%				
					RSD Evaluation	Not Detected	Very Good	Very Good	Not Detected	Not Detected	Very Good				
				•	sult for DU-38 (1-2)	5.05 U	12.5 J	8.68 J	5.05 U	5.05 U	38.8 J				
					Adjusted Result for sociated DUs (1-2)	No Adjustment Calculated	No Adjustment Needed	No Adjustment Needed	No Adjustment Calculated	No Adjustment Calculated	No Adjustment Needed				
			2-3	DU-38 (2-3)A	11/17/2022	5.05 U	9.82 J	5.05 U	5.05 U	5.05 U	30.0 J				
			2-3 FR	DU-38 (2-3)B	11/17/2022	4.96 U	7.88 J	4.96 U	4.96 U	4.96 U	27.7 J				
			2-3 FR	DU-38 (2-3)C	11/17/2022	5.07 U	6.14 J	5.07 U	5.07 U	5.07 U	26.4 J				
				N	lean Concentration	5.07 U	7.95 J	5.07 U	5.07 U	5.07 U	28.1 J				
					RSD	Not Detected	18.91%	Not Detected	Not Detected	Not Detected	5.31%				
					RSD Evaluation	Not Detected	Very Good	Not Detected	Not Detected	Not Detected	Very Good				
				•	sult for DU-38 (2-3)	5.07 U	7.95 J	5.07 U	5.07 U	5.07 U	28.1 J				
				,	Adjusted Result for sociated DUs (2-3)	No Adjustment Calculated	No Adjustment Needed	No Adjustment Calculated	No Adjustment Calculated	No Adjustment Calculated	No Adjustment Needed				

Table I-3
Soil Results - PCB Aroclors Field Replicate Statistics and Evaluation
Willamette Cove Upland Facility
Portland, Oregon

										PCBs by EPA	Method 8082A				
Parcel	Decision	Sample	Sample Depth	Sample ID	Sample Date					Concentrati	ons in µg/kg				
raicei	Unit	Туре	(feet bgs)	Sample ID	Sample Date	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268	Total PCB Aroclors
			0-1	DU-41 (0-1)A	10/24/2022	5.03 U	14.5 J	12.5 J	5.03 U	5.03 U	44.6 J				
			0-1 FR	DU-41 (0-1)B	10/24/2022	4.83 U	40.1 J	12.1 J	4.83 U	4.83 U	69.1 J				
			0-1 FR	DU-41 (0-1)C	10/24/2022	4.88 U	21.6 J	17.9 J	4.88 U	4.88 U	56.6 J				
				N	lean Concentration	5.03 U	25.4 J	14.2 J	5.03 U	5.03 U	56.8 J				
					RSD	Not Detected	42.5%	18.7%	Not Detected	Not Detected	17.6%				
					RSD Evaluation	Not Detected	Good	Very Good	Not Detected	Not Detected	Very Good				
			Adjusted Result for DU-4 Statistically Adjusted Res		sult for DU-41 (0-1)	5.03 U	25.4 J	14.2 U	5.03 U	5.03 U	56.8				
			Statistically Adjusted Re Associated DU			No Adjustment Calculated	No Adjustment Needed	No Adjustment Needed	No Adjustment Calculated	No Adjustment Calculated	No Adjustment Needed				
			1-2 DU-41 (1-2)A 10/26/2			4.83 U	58.4 J	17.3 J	4.83 U	4.83 U	92.6 J				
			1-2 DU-41 (1-2)A 10/26/2022 1-2 FR DU-41 (1-2)B 10/26/2022			4.79 U	12.8 J	10.8 J	4.79 U	4.79 U	40.4 J				
			1-2 FR 1-2 FR	DU-41 (1-2)B DU-41 (1-2)C	10/26/2022	4.79 U	46.6 J	12.6 J	4.79 U	4.94 U	76.5 J				
			1-2111	\ /	lean Concentration	4.94 U	39.3 J	13.6 J	4.94 U	4.94 U	69.8 J				
Soil Berms	DU-41	ISM			RSD	Not Detected	49.2%	20.2%	Not Detected	Not Detected	31.3%				
					RSD Evaluation	Not Detected	Good	Very Good	Not Detected	Not Detected	Very Good				
				Adjusted Res	sult for DU-41 (1-2)	4.94 U	39.3 J	13.6 J	4.94 U	4.94 U	69.8				
				Statistically	Adjusted Result for	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment				
				As	sociated DUs (1-2)	Calculated	Calculated	Calculated	Calculated	Calculated	Needed	Needed	Calculated	Calculated	Needed
			2-3	DU-41 (2-3)A	10/28/2022	5.05 U	9.84 J	7.82 J	5.05 U	5.05 U	35.3 J				
			2-3 FR	DU-41 (2-3)B	10/28/2022	4.92 U	5.41 J	6.56 J	4.92 U	4.92 U	29.2 J				
			2-3 FR	DU-41 (2-3)C	10/28/2022	4.90 U	6.60 J	20.0 J	4.90 U	4.90 U	43.8 J				
				N	lean Concentration	5.05 U	7.28 J	11.46 J	5.05 U	5.05 U	36.1 J				
					RSD	Not Detected	25.7%	0.529	Not Detected	Not Detected	16.5%				
					RSD Evaluation	Not Detected	Very Good	Poor	Not Detected	Not Detected	Very Good				
				•	sult for DU-41 (2-3)	5.05 U	7.28 J	20.0 J	5.05 U	5.05 U	36.1				
				,	Adjusted Result for sociated DUs (2-3)	No Adjustment Calculated	No Adjustment Needed	Adjust Upward Using RSD	No Adjustment Calculated	No Adjustment Calculated	No Adjustment Needed				

ISM = Incremental Sampling Methodology.

bgs = Below ground surface.

EPA = United States Environmental Protection Agency.

FR = Field replicate. Field replicates are collected at different locations within the same ISM cell as the primary sample.

μg/kg = Micrograms per kilogram (parts per billion).

Mean Concentration = Arithmetic mean calculation for the field replicates. Mean concentrations are calculated using the detection limit (DL) if the target analyte is not detected. If all the three field replicates are not detected for the target analyte, then the maximum DL is used for the final result.

RSD = Relative Standard Deviation. RSDs are calculated using the DL if the target analyte is not detected.

RSD Evaluation = RSD ≤35% is "Very Good" precision, RSD >35% but ≤50% is "Good" precision, RSD >50% but ≤100% is "Poor" precision, RSD >100% is "Very Poor" precision.

U = Analyte was not detected.

J = Result is estimated.

Table I-4
Soil Results - PAHs and Dibenzofuran Field Replicate Statistics and Evaluation
Willamette Cove Upland Facility
Portland, Oregon

			Sample												PAHs and		by EPA Method	8270E-SIM									
Parcel	Decision	Sample	Depth	Sample ID	Sample Date											Concentrati	ions in µg/kg		1-					, ,		,	
raicei	Unit	Туре	(feet bgs))	Cumple Bute	Acenaphthene	Acenaphthylen e	Anthracene	Benz(a)anthrac ene	Benzo(a)pyren e	Benzo(b)fluora nthene	Benzo(k)fluora nthene	Benzo(g,h,i)per ylene	Chrysene	Dibenz(a,h)ant hracene	Fluoranthene	Fluorene	Indeno(1,2,3- cd)pyrene	Methylnaphthal	Methylnaphthal	Naphthalene	Phenanthrene	Pyrene	Dibenzofuran	Total HPAH	Total LPAH	cPAHs (BaP Eq.)
			0-1	DU-5 (0-1)A	7/22/2022	7.41 J	9.82 J	14.5	109	168	239	66.3	119	160	50.7 U	175	6.08 J	131	5.90 J	8.66 J	10.000 J	82.2	207	5.07 U	1,400	139 J	242 J
			0-1 FR	DU-5 (0-1)B	7/22/2022	8.72 J	10.1	23.3	91.3	140	192	66.5 J	87.7	122	18.9	162	6.66 J	108	7.41 J	12	13.2	80.8	169	5.69 J	1,180 J	186 J	179 J
			0-1 FR	DU-5 (0-1)C	7/22/2022	10.9	13.1	31.1	106	172	233	77.3 J	107	156	21.8	213	9.26 J	128	6.95 J	10.6	12.6	113	226	7.34 J	1,240 J	173 J	192 J
					Mean Concentration	9.01 J	11.0 J	23.0	102	160	221	70.0 J	105	146	30.5	183	7.33 J	122	6.75 J	10.4 J	11.9 J	92.0	201	6.03 J	1,273 J	166 J	204 J
					RSD	16.0%	13.5%	29.5%	7.58%	8.90%	9.44%	7.34%	12.3%	11.7%	47.1%	11.8%	18.9%	8.35%	9.36%	13.1%	11.6%	16.2%	11.8%	15.9%	7.29%	11.9%	13.29%
				45 4 15	RSD Evaluation	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good
					Result for DU-5 (0-1)	9.01 J	11.0 J	23.0	102	160	221 No. Adii cotas cat	70.0 J	105	146	30.5	183	7.33 J	122	6.75 J	10.4 J	11.9 J	92.0	201	6.03 J	1,273 J	166 J	204 J
				,	Adjusted Result for ssociated DUs (0-1)	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed				
			1-2	DU-5 (1-2)A	7/25/2022	8.16 J	13.2	29.8	91.2	126	174	55.7 J	81.7	132	16.9	204	7.23 J	93.6	7.06 J	10.0 J	11.1	107	208	5.04 J	1,160 J	155 J	199 J
			1-2 FR	DU-5 (1-2)A DU-5 (1-2)B	7/25/2022	6.07 J	11.5	22.7	67	102	140	38.6 J	73.5	106	14.5	142	6.3 J	82.9	7.04 J	11.6	15.0	81.2	154	5.43 J	921 J	154 J	146 J
			1-2 FR	DU-5 (1-2)C	7/25/2022	9.53 J	24.6	28.9	114	193	265	74.6 J	133	182	24.7	244	7.57 J	158	8.21 J	13.1	20.1	113	289	6.09 J	1,120 J	147 J	177 J
					Mean Concentration	7.92 J	16.4	27.1	90.7	140	193	56.3 J	96.1	140	18.7	197	7.03 J	112	7.44 J	11.6 J	15.4	100	217	5.52 J	1,067 J	152 J	174 J
West	DU-5	ISM			RSD	18.0%	35.4%	11.6%	21.2%	27.4%	27.3%	26.1%	27.4%	22.5%	23.3%	21.3%	7.63%	29.7%	7.35%	10.9%	23.9%	13.7%	25.6%	7.85%	9.8%	2.3%	12.5%
					RSD Evaluation	Very Good	Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good
				Adjusted F	Result for DU-5 (1-2)	7.92 J	16.4	27.1	90.7	140	193	56.3 J	96.1	140	18.7	197	7.03 J	112	7.44 J	11.6 J	15.4	100	217	5.52 J	1,067 J	152 J	174 J
				,	Adjusted Result for	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment
				Α	ssociated DUs (1-2)) Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed
			2-3	DU-5 (2-3)A	7/26/2022	6.04 J	15.8	29.7	95.0	134	172	54.3 J	96.9	150	20.1	191	6.84 J	110	5.74 J	9.36 J	12.6	92.2	218	5.00 U	1,440 J	201 J	241 J
			2-3 FR	DU-5 (2-3)B	7/26/2022	5.28 J	15.7	21.3	76.7	125	170	50.5 J	88.5	140	17.0	151	5.07 J	101	7.89 J	11.2	13.6	74.8	197	5.04 U	1,680 J	217 J	272 J
			2-3 FR	DU-5 (2-3)C	7/26/2022	18.0	21.8	86.9	226	292	378	130 J	163	310	34.2	518	17.7	199	10.2	12.5	16.3	374	629	9.88 J	2,880 J	547	408 J
				'	Mean Concentration	9.77 J 59.6%	17.8 16.1%	46.0 J 63.4%	133 J 50.2%	184 41.8%	240 40.7%	78.3 J 46.8%	116 28.7%	200 38.9%	23.8 31.5%	287 J 57.3%	9.87 J 56.6%	137 32.4%	7.94 J 22.9%	11.0 J 11.7%	14.2 11.0%	180 J 76.0%	348 J 57.1%	6.64 J 34.5%	2,000 J 31.5%	322 J 49.6%	307 J 23.6%
					RSD Evaluation	Poor	Very Good	Poor	Poor	Good	Good	Good	Very Good	Good	Very Good	Poor	Poor	Very Good	Very Good	Very Good	Very Good	Poor	Poor	Very Good	Very Good	Good	Very Good
				Adjusted F	Result for DU-5 (2-3)	18.0	17.8	86.9	226	184	240	78.3 J	116	200	23.8	518	17.7	137	7.94 J	11.0 J	14.2	374	629	6.64 J	2,000 J	322 J	307 J
				•	Adjusted Result for	r Adjust Upward	No Adjustment	Adjust Upward	Adjust Upward	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	Adjust Upward	Adjust Upward	No Adjustment	No Adjustment	No Adjustment	No Adjustment	Adjust Upward	Adjust Upward	No Adjustment	No Adjustment	No Adjustment	No Adjustment
					ssociated DUs (2-3)	Using RSD	Needed	Using RSD	Using RSD	Needed	Needed	Needed	Needed	Needed	Needed	Using RSD	Using RSD	Needed	Needed	Needed	Needed	Using RSD	Using RSD	Needed	Needed	Needed	Needed
			0-1	DU-11 (0-1)A	8/10/2022	70.6	820	455	2,030	3,990	3,750	1,300 J	2,800	3,130	522	4,190	198	2,920	218	506	799	2,370	6,630	46.9	31,300 J	5,220	5,400 J
			0-1 FR	DU-11 (0-1)B	8/10/2022	104	1180	751	2,130	3,970	3,820	1,270 J	2,520	3,070	495	4,530	511	2,680	431	804	1,670	4,340	6,470	81.9	31,000 J	9,360	5,340 J
			0-1 FR	DU-11 (0-1)C	8/10/2022	51.2	390	246	1,050	2,030	2,170	538 J	1,340	1,550	217	2,030	95.4	1,420	141	329	539	1,190	3,200	25.7	15,500 J	2,840	2,720 J
				I	Mean Concentration	75.3	797	484	1,737	3,330	3,247	1,036 J	2,220	2,583	411	3,583	268 J	2,340	263	546	1,003	2,633	5,433	51.5	25,933 J	5,807	4,487 J
					RSD	29.0%	40.5%	42.8%	28.1%	27.6%	23.5%	34.0%	28.5%	28.3%	33.5%	30.9%	65.9%	28.1%	46.6%	35.9%	48.2%	49.3%	29.1%	45.0%	28.5%	46.4%	27.8%
				Adiusted D	RSD Evaluation	Very Good	Good	Good 484	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Poor	Very Good	Good	Good	Good	Good	Very Good	Good	Very Good	Good	Very Good
				•	esult for DU-11 (0-1)	75.3	797		1,737	3,330	3,247	1,036 J	2,220	2,583	411	3,583	511	2,340	263	546	1,003	2,633	5,433	51.5	25,933 J	5,807	4,487 J
				,	Adjusted Result for ssociated DUs (0-1)	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	Adjust Upward Using RSD	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed				
			1-2	DU-11 (1-2)A	8/10/2022	44.5	358	230	1,130	1,960	1,790	547 J	1,320	1,660	261	1,920	122	1,340	167	400	600	1230	3,130	48.6	15,100 J	2,980	2,650 J
			1-2 FR	DU-11 (1-2)B	8/10/2022	16.4	228	141	564	1,050	994	277 J	756	904	138	943	70.1	779	107	230	345	682	1,570	15.5	7,980 J	1,710	1,430 J
			1-2 FR	DU-11 (1-2)C	8/10/2022	18.6	270	172	845	1,510	1,400	417 J	1,060	1,230	212	1,310	59.0	1,080	113	273	447	779	2,260	17.5	11,300 J	2,020	2,060 J
				. ,	Mean Concentration	26.5	285	181	846	1,507	1,395	414 J	1,045	1,265	204	1,391	83.7	1,066	129	301	464	897	2,320	27.2 J	11,460 J	2,237	2,047 J
Central	DU-11	ISM			RSD	48.1%	19.0%	20.4%	27.3%	24.7%	23.3%	26.7%	22.0%	24.5%	24.8%	29.0%	32.8%	21.5%	20.9%	24.0%	22.6%	26.6%	27.5%	55.7%	25.4%	24.2%	24.3%
					RSD Evaluation	Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Poor	Very Good	Very Good	Very Good
				Adjusted Re	esult for DU-11 (1-2)	26.5	285	181	846	1,507	1,395	414 J	1,045	1,265	204	1,391	83.7	1,066	129	301	464	897	2,320	48.6	11,460 J	2,237	2,047 J
				, , ,	Adjusted Result for	,	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	Adjust Upward	No Adjustment	No Adjustment	No Adjustment				
				_	ssociated DUs (1-2)) Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Using RSD	Needed	Needed	Needed
			2-3	DU-11 (2-3)A		25.1	292	214	1,040	1,950	1,760	495 J	1,690	1,650	293	1,860	88.9	1,570	137	318	496	1,190	3,000	24.1	15,300 J	2,620	2,690 J
			2-3 FR 2-3 FR	DU-11 (2-3)B DU-11 (2-3)C	8/10/2022	42.8 64.7	445 733	345 666	1,770 2,130	3,270 3,780	2,810 3,460	827 J 900 J	2,450 2,820	2,630 2,880	443 506	3,120 4,400	157 456	2,380 2,780	159 310	365 582	609 870	1,870 3,980	5,110 6,540	32.1 61.3	24,800 J 30,200 J	3,830 7,350	4,420 J 5,130 J
			2-3 FK	. ,	8/10/2022 Mean Concentration		490	408	1,647	3,000	2,677	741 J	2,320	2,000	414	3,127	234 J	2,760	202	422	658	2,347 J	4,883	39.2	23,433 J	4,600	4,080 J
					RSD	36.6%	37.3%	46.5%	27.5%	25.7%	26.2%	23.8%	20.3%	22.2%	21.6%	33.2%	68.1%	22.4%	38.1%	27.3%	23.8%	50.6%	29.8%	40.8%	26.3%	43.6%	25.1%
					RSD Evaluation	Good	Good	Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Poor	Very Good	Good	Very Good	Very Good	Poor	Very Good	Good	Very Good	Good	Very Good
				Adjusted Re	esult for DU-11 (2-3)	44.2	490	408	1,647	3,000	2,677	741 J	2,320	2,387	414	3,127	456	2,243	202	422	658	3,980	4,883	39.2	23,433 J	4,600	4,080 J
				•	Adjusted Result for	1	ı	1	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	1	No Adjustment	Adjust Upward	No Adjustment	No Adjustment	No Adjustment	No Adjustment	Adjust Upward	No Adjustment				
					ssociated DUs (2-3)	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Using RSD	Needed	Needed	Needed	Needed	Using RSD	Needed	Needed	Needed	Needed	Needed
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Table I-4
Soil Results - PAHs and Dibenzofuran Field Replicate Statistics and Evaluation
Willamette Cove Upland Facility
Portland, Oregon

	Decision	Sample	Samp	ple											PAHs and		by EPA Method ions in µg/kg	8270E-SIM									
Parcel	Decision Unit	Sample Type	Dept (feet b		Sample Date	Acenaphthene	Acenaphthylen e	Anthracene	Benz(a)anthrac ene	Benzo(a)pyren e	Benzo(b)fluora nthene	Benzo(k)fluora nthene	Benzo(g,h,i)per ylene	Chrysene	Dibenz(a,h)ant hracene	Fluoranthene	Fluorene	Indeno(1,2,3- cd)pyrene	Methylnaphthal	Z- Methylnaphthal	Naphthalene	Phenanthrene	Pyrene	Dibenzofuran	Total HPAH	Total LPAH	cPAHs (BaP Eq.)
			0-1	(- /	8/29/2022	8.01 J	46.9	44.9 55.4	196 788	284 785	328 1070	94.5 J	250 617	309 985	36.8 127	316 1,310	11.5 9.38 J	233 670	26.6	58.9 55.3	94.7 85.4	177 196	433	8.41 J	2,480 J 7,930 J	442 J 476 J	398 J
			0-1 F	` '	8/29/2022 8/29/2022	6.05 J 7.84 J	68.3 37.2	32.1	206	314	340	368 J 95.6 J	291	321	41.8	313	10.9	262	24.4 24.9	55.2	82.4	160	1,210 444	8.20 J 7.23 J	2,630 J	386 J	1,170 J 438 J
				Me	ean Concentration RSD	7.30 J 12.1%	50.8 25.6%	44.1 21.6%	397 J 69.8%	461 49.8%	579 J 59.9%	186 J 69.2%	386 42.5%	538 J 58.7%	68.5 J 60.4%	646 J 72.6%	10.6 J 8.42%	388 J 51.4%	25.3 3.72%	56.5 3.05%	87.5 5.98%	178 8.28%	696 J 52.3%	7.95 J 6.47%	4,347 J 58.31%	435 J 8.5%	669 J 53.07%
					RSD Evaluation	Very Good	Very Good	Very Good	Poor	Good	Poor	Poor	Good	Poor	Poor	Poor	Very Good	Poor	Very Good	Very Good	Very Good	Very Good	Poor	Very Good	Poor	Very Good	Poor
				•	ult for DU-13 (0-1) djusted Result for	7.30 J No Adjustment	50.8 No Adjustment	44.1 No Adjustment	788 Adjust Upward	461 No Adjustment	1,070 Adjust Upward	368 J Adjust Upward	386 No Adjustment	985 Adjust Upward	127 Adjust Upward	1,310 Adjust Upward	10.6 J No Adjustment	670 Adjust Upward	25.3 No Adjustment	56.5 No Adjustment	87.5 No Adjustment	178 No Adjustment	1,210 Adjust Upward	7.95 J No Adjustment	7,930 J Adjust Upward	435 J No Adjustment	1,170 J Adjust Upward
				,	ociated DUs (0-1)	Needed	Needed	Needed	Using RSD	Needed	Using RSD	Using RSD	Needed	Using RSD	Using RSD	Using RSD	Needed	Using RSD	Needed	Needed	Needed	Needed	Using RSD	Needed	Using RSD	Needed	Using RSD
			1-2 1-2 F	` '	8/30/2022 8/30/2022	5.06 U 5.06 U	16.7 12.1	15.1 11.6	91.9 85.5	141 110	160 130	44.5 J 44.9 J	152 102	134 119	18.8 15.4	155 129	5.54 J 5.06 U	134 96.8	9.79 J 7.91 J	17.9 17.2	25.5 26.8	91.1 60.0	199 164	5.06 U 5.06 U	1,230 J 997 J	174 J 133	199 J 157 J
			1-2 F	FR DU-13 (1-2)C	8/30/2022	20.4	30.4	68.1	280	316	382	115 J	232	348	42.7	555	31.3	240	21.5	34.3	65.6	426	553	15.5	3,060 J	676	450 J
Central	DU-13	ISM		Me	ean Concentration RSD	10.2 J 71.1%	19.7 39.4%	31.6 J 81.8%	152 J 59.2%	189 48.0%	224 J 50.2%	68.1 J 48.6%	162 33.1%	200 J 52.2%	25.6 47.4%	280 J 69.7%	14.0 J 87.8%	157 38.7%	13.1 J 46.0%	23.1 34.2%	39.3 47.3%	192 J 86.1%	305 J 57.5%	8.54 J 57.6%	1,762 J 52.3%	328 J 75.3%	269 J 48.2%
					RSD Evaluation	Poor	Good	Poor	Poor	Good	Poor	Good	Very Good	Poor	Good	Poor	Poor	Good	Good	Very Good	Good	Poor	Poor	Poor	Poor	Poor	Good
				•	ult for DU-13 (1-2) djusted Result for	20.4 Adjust Upward	19.7 No Adjustment	68.1 Adjust Upward	280 Adjust Upward	189 No Adjustment	382 Adjust Upward	68.1 J No Adjustment	162 No Adjustment	348 Adjust Upward	25.6 No Adjustment	555 Adjust Upward	31.3 Adjust Upward	157 No Adjustment	13.1 J No Adjustment	23.1 No Adjustment	39.3 No Adjustment	426 Adjust Upward	553 Adjust Upward	15.5 Adjust Upward	3,060 J Adjust Upward	676 Adjust Upward	269 J No Adjustment
				Áss	ociated DUs (1-2)	Using RSD	Needed	Using RSD	Using RSD	Needed	Using RSD	Needed	Needed	Using RSD	Needed	Using RSD	Using RSD	Needed	Needed	Needed	Needed	Using RSD	Using RSD	Using RSD	Using RSD	Using RSD	Needed
			2-3 2-3 F	` '	8/31/2022 8/31/2022	6.59 J 5.06 U	22.0 11.2	28.0 11.9	134 75.9	189 98.7	197 108	68.3 J 38.5 J	178 89.9	184 104	23.9 13.7	238 116	7.56 J 5.06 U	164 84.9	11.9 7.66 J	23.6 16.0	37.8 24.7	122 59.0	292 149	5.20 J 5.06 U	1,670 J 879 J	248 J 128	263 J 140 J
			2-3 F	FR DU-13 (2-3)C	8/31/2022	5.05 U	8.98 J	10.5	67.3	87.7	109	31.5 J	83.8	95.3	12.4	106	5.05 U	78.7	6.28 J	11.7	18.4	53.1	126	5.05 U	798 J	108 J	126 J
				ME	ean Concentration RSD	5.57 J 13.0%	14.1 J 40.4%	16.8 47.3%	92.4 32.1%	125 36.3%	138 30.2%	46.1 J 34.6%	117 36.7%	128 31.2%	16.7 30.9%	153 39.1%	5.89 J 20.0%	109 35.6%	8.61 J 27.8%	17.1 28.8%	27.0 30.0%	78.0 40.0%	189 38.9%	5.10 J 1.3%	1,116 J 35.3%	161 J 38.3%	176 J 34.9%
				Adiusted Deep	RSD Evaluation	Very Good	Good	Good	Very Good	Good	Very Good	Very Good	Good	Very Good	Very Good	Good	Very Good	Good	Very Good	Very Good	Very Good	Good	Good	Very Good	Good	Good	Very Good
				•	ult for DU-13 (2-3) djusted Result for	5.57 J No Adjustment	14.1 J No Adjustment	16.8 No Adjustment	92.4 No Adjustment	125 No Adjustment	138 No Adjustment	46.1 J No Adjustment	117 No Adjustment	128 No Adjustment	16.7 No Adjustment	153 No Adjustment	5.89 J No Adjustment	109 No Adjustment	8.61 J No Adjustment	17.1 No Adjustment	27.0 No Adjustment	78.0 No Adjustment	189 No Adjustment	5.10 J No Adjustment	1,116 J No Adjustment	161 J No Adjustment	176 J No Adjustment
			0.1		ociated DUs (2-3)	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed 21.3	Needed	Needed	Needed 317	Needed	Needed 347	Needed	Needed	Needed	Needed	Needed 496 J
			0-1 0-1 F	` '	9/12/2022 9/12/2022	15.2 U 10.2 U	24.4 U 21	58.4 33.8	284 195	337 286	456 387	157 J 130 J	229 227	393 290	58.7 51.4	522 350	9.77 J	247 243	279 44	51.6	204 49.1	183	540 373	77.6 20.4	3,220 J 2,530 J	968 353	490 J 421 J
			0-1 F	\ /	9/12/2022 ean Concentration	14.0 U 15.2 U	20 U 21.8	42.1 44.8	227 235	300 308	409 417	138 J 142 J	237 231	317 333	54.5 54.9	423 432	16.9 16.0 J	246 245	68.5 131 J	81.9 150 J	67.5 107 J	242 257	440 451	23.0 40.3 J	2,790 J 2,847 J	467 596	444 J 454 J
Central	DU-16	ISM		III.	RSD	Not Detected	8.64%	22.8%	15.6%	6.99%	6.90%	7.99%	1.9%	13.1%	5.45%	16.3%	29.7%	0.693%	80.8%	79.0%	64.7%	26.4%	15.2%	65.4%	10.0%	44.8%	6.92%
				Adiusted Resu	RSD Evaluation Ilt for DU-16 (0-1)	Not Detected 15.2 U	Very Good 21.8	Very Good 44.8	Very Good 235	Very Good 308	Very Good 417	Very Good 142 J	Very Good 231	Very Good 333	Very Good 54.9	Very Good 432	Very Good 16.0 J	Very Good 245	Poor 279	Poor 317	Poor 204	Very Good 257	Very Good 451	Poor 77.6	Very Good 2,847 J	Good 596	Very Good 454 J
				Statistically A	djusted Result for	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	Adjust Upward	Adjust Upward	Adjust Upward	No Adjustment	No Adjustment	Adjust Upward	No Adjustment	No Adjustment	No Adjustment
			0-1	Ass 1 DU-18 (0-1)A	9/29/2022	Calculated 5.08 U	Needed 22.6	Needed 25.5	Needed 78.4	Needed 129	Needed 205	Needed 57.6 J	Needed 174	Needed 136	Needed 19.2	Needed 128	Needed 5.08 U	Needed 158	Using RSD 7.71 J	Using RSD 12.3	Using RSD 25.4	Needed 65.5	Needed 151	Using RSD 5.64 J	Needed 1,240 J	Needed 156	Needed 193 J
			0-1 F	FR DU-18 (0-1)B	9/29/2022	5.08 U	21.0	27.8	95.4	137	211	62.9 J	159	157	20	170	6.01 J	149	7.86 J	12.5	24.4	93.3	193	6.94 J	1,350 J	188 J	203 J
			0-1 F	()	9/29/2022 ean Concentration	5.97 J 5.38 J	29.0 24.2	39.5 30.9	125 100	184 150	250 222	85.4 J 68.6 J	209 181	199 164	29.4 22.8	255 184	8.19 J 6.43 J	193 167	7.17 J 7.58 J	11 11.9	24.5 24.8	145 101	279 208	6.67 J 6.42 J	1,810 J 1,467 J	263 J 202 J	271 J 222 J
					RSD	7.80%	14.3%	19.8%	19.3%	16.2%	8.99%	17.6%	11.6%	16.0%	20.4%	28.7%	20.3%	11.4%	3.91%	5.57%	1.82%	32.5%	25.7%	8.73%	16.8%	22.2%	15.6%
				Adjusted Resi	RSD Evaluation ult for DU-18 (0-1)	Very Good 5.38 J	Very Good 24.2	Very Good 30.9	100	Very Good 150	Very Good 222	Very Good 68.6 J	Very Good 181	Very Good 164	Very Good 22.8	Very Good 184	6.43 J	Very Good 167	7.58 J	Very Good 11.9	Very Good 24.8	101	Very Good 208	Very Good 6.42 J	Very Good 1,467 J	Very Good 202 J	Very Good 222 J
				,	djusted Result for ociated DUs (0-1)	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed
			1-2		9/30/2022	4.80 U	14.4	16.6	65.0	93.3	143	48.0 J	104	105	13.6	102	5.48 J	96.9	9.71	11.9	19.2	67.9	123	4.80 U	894 J	138 J	138 J
			1-2 F	` ′	9/30/2022	4.96 U	8.03 J	11.1	58.9	74.5	115	31.5 J	73.6	85.9	10.3	95.0	4.96 U	70.9	4.96 U	6.60 J	13.2	38.5	107	4.96 U	723 J	82.4 J	110 J
			1-2 F	\ /	9/30/2022 ean Concentration	5.03 U 5.03 U	8.42 J 10.3 J	8.58 J 12.1 J	46.0 57	57.5 75	86.6 115	29.7 J 36.4 J	70.6 82.7	69.1 86.7	9.24 J 11.0 J	77.9 91.6	5.03 U 5.16 J	64.9 77.6	5.03 U 6.57	5.56 J 8.02 J	12.0 14.8	34.7 47.0	86.4 105	5.03 U 5.03 U	598 J 738 J	74.3 J 98.2 J	86.9 J 112 J
Central	DU-18	ISM			RSD Fundament	Not Detected	28.3%	27.7%	14.0%	19.5%	20.0%	22.6%	18.2%	16.9%	16.8%	11.0%	4.5%	17.91%	33.9%	34.6%	21.3%	31.5%	14.2%	Not Detected	16.4%	28.8%	18.7%
				Adjusted Resi	RSD Evaluation ult for DU-18 (1-2)	Not Detected 5.03 U	10.3 J	Very Good 12.1 J	Very Good 57	Very Good 75	Very Good 115	Very Good 36.4 J	Very Good 82.7	Very Good 86.7	Very Good 11.0 J	91.6	Very Good 5.16 J	77.6	Very Good 6.57	8.0 J	Very Good 14.8	Very Good 47.0	Very Good 105	Not Detected 5.03 U	Very Good 738 J	98.2 J	Very Good 112 J
					djusted Result for ociated DUs (1-2)	No Adjustment Calculated	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Calculated	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed				
			2-3		10/3/2022	5.04 U	5.04 U	5.04 U	22.4	27.4	42.4 J	12.9 J	23.5	31.4	5.04 U	40.9	5.04 U	26.4	5.04 U	5.04 U	5.04 U	17.5	47.5	5.04 U	277 J	32.6	39.2 J
			2-3 F		10/3/2022	5.06 U	8.08 J	12.7	45.9	59.3	79.5 J	30.2 J	63.5	65.6	7.99 J	83.7	5.06 U	60.4	5.06 U	5.06 U	11.5	44.2	91.4	5.06 U	587 J	84.1 J	86.2 J
			2-3 F	, ,	10/3/2022 ean Concentration	4.95 U 5.06 U	6.27 J 6.46 J	8.20 J 8.65 J	41.6 36.6	53.0 46.6	78.3 J 66.7 J	23.5 J 22.2 J	55.0 47.3	59.8 52.3	7.29 J 6.77 J	65.2 63.3	4.95 U 5.06 U	53.6 46.8	4.95 U 5.06 U	4.95 U 5.06 U	8.66 J 8.40 J	29.7 30.5	74.6 71.2	4.95 U 5.06 U	512 J 459 J	60.3 J 59.0 J	77.9 J 67.8 J
					RSD	Not Detected	19.3%	36.4%	27.9%	29.6%	25.8%	32.1%	36.4%	28.6%	18.6%	27.7%	Not Detected	31.4%	Not Detected	Not Detected	31.5%	35.8%	25.4%	Not Detected	28.8%	35.7%	30.2%
				Adjusted Resi	RSD Evaluation ult for DU-18 (2-3)	5.06 U	Very Good 6.46 J	Good 8.65 J	Very Good 36.6	Very Good 46.6	Very Good 66.7 J	Very Good 22.2 J	Good 47.3	Very Good 52.3	6.77 J	Very Good 63.3	Not Detected 5.06 U	Very Good 46.8	Not Detected 5.06 U	Not Detected 5.06 U	Very Good 8.40 J	Good 30.5	Very Good 71.2	Not Detected 5.06 U	Very Good 459 J	Good 59.0 J	Very Good 67.8 J
					djusted Result for		,	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment
			1	Ass	ociated DUs (2-3)	Calculated	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Calculated	Needed	Calculated	Calculated	Needed	Needed	Needed	Calculated	Needed	Needed	Needed

Table I-4
Soil Results - PAHs and Dibenzofuran Field Replicate Statistics and Evaluation
Willamette Cove Upland Facility
Portland, Oregon

			Comple												PAHs and		by EPA Method	8270E-SIM									
Davasi	Decision	Sample	Sample	Commis ID	Commis Data											Concentrati	ions in µg/kg										
Parcel	Unit	Туре	Depth (feet bgs)	Sample ID	Sample Date	Acenaphthene	Acenaphthylen e	Anthracene	Benz(a)anthrac ene	Benzo(a)pyren e	Benzo(b)fluora nthene	Benzo(k)fluora nthene	Benzo(g,h,i)per ylene	Chrysene	Dibenz(a,h)ant hracene	Fluoranthene	Fluorene	Indeno(1,2,3- cd)pyrene	Methylnaphthal	Methylnaphthal	Naphthalene	Phenanthrene	Pyrene	Dibenzofuran	Total HPAH	Total LPAH	cPAHs (BaP Eq.)
			0-1	DU-22 (0-1)A	10/13/2022	4.99 U	7.2 J	11.1	36.6	50.4	88.3	27.7 J	54.7	81.9	8.05 J	80.2	4.99 U	51.1	8.62 J	16.9	50.3	58.5	86.2	5.49 J	565	149	76.4 J
			0-1 FR	DU-22 (0-1)B	10/13/2022	4.90 U	4.90 U	8.30 J	25.9	30.8	64.4	17.9 J	34.7	68.2	6.22 J	40.8	4.90 U	31.9	10.3	15.5	14.5	48.7	52.9	4.90 U	374	94.4	49.5 J
			0-1 FR	DU-22 (0-1)C	10/13/2022	168	14.8 U	195	194	78.6	161	50.4 J	57.3	237	10.5	1,130	240	60.8	28.7	33.6	17.2	1,290	672	112	2,650	1,950	131 J
				N.	Mean Concentration	59.3 J	8.96 J	71.5 J	85.5 J	53.3	105	32.0 J	48.9	129 J	8.26 J	417 J	83.3 J	47.9	15.9 J	22.0	27.3 J	466 J	270 J	40.8 J	1196 J	731 J	85.6 J
					RSD	130%	47.2%	122%	89.9%	36.8%	39.3%	42.5%	20.6%	59.3%	21.2%	121%	133.0%	25.05%	57.3%	37.4%	59.6%	125.1%	105%	123%	86.2%	118%	39.6%
					RSD Evaluation		Good	Very Poor	Poor	Good	Good	Good	Very Good	Poor	Very Good	Very Poor	Very Poor	Very Good	Poor	Good	Poor	Very Poor	Very Poor	Very Poor	Poor	Very Poor	Good
				•	esult for DU-22 (0-1)	168	8.96 J	195	194	53.3	105	32.0 J	48.9	237	8.26 J	1,130	240	47.9	28.7	22.0	50.3	1,290	672	112	2,650	1,950	85.6 J
				,	Adjusted Result for	Additional Data Review Needed	No Adjustment	Additional Data	Adjust Upward Using RSD	No Adjustment	No Adjustment	No Adjustment	No Adjustment	Adjust Upward	No Adjustment	Additional Data	Additional Data		Adjust Upward	No Adjustment	Adjust Upward	Additional Data	Additional Data	Additional Data	Adjust Upward	Additional Data	No Adjustment
			4.0		ssociated DUs (0-1)		Needed 5.05 U	Review Needed 5.05 U	16.0 J	Needed	Needed 24.5 J	Needed 10.3 J	Needed 14.8	Using RSD 27.1	Needed 5.05 U	Review Needed 21.3	Review Needed	Needed 15.6	Using RSD 5.05 U	Needed 5.88 J	Using RSD 10.9	Review Needed 19.4	Review Needed	Review Needed 5.05 U	Using RSD	Review Needed 46.3	Needed 21.3 J
			1-2 1-2 FR	DU-22 (1-2)A DU-22 (1-2)B	10/14/2022 10/14/2022	5.05 U 4.90 U	4.90 U	4.90 U	19.2 J	13.0 18.4	38.4 J	18.6 J	19.0	36.4	4.90 U	26.1	5.05 U 4.90 U	15.6 20.2	4.90 U	5.00 J 5.13 J	7.85 J	17.5	22.2 36.00	4.90 U	235	40.3	21.3 J 28.9 J
			1-2 FR	DU-22 (1-2)C	10/14/2022	4.73 U	4.73 U	4.73 U	16.2 J	15.8	32.2 J	11.6 J	20.4	27.7	4.73 U	32.2	4.73 U	19.4	4.73 U	4.73 U	6.15 J	20.9	31.4	4.73 U	209	38.9	25.1 J
					Mean Concentration	5.05 U	5.05 U	5.05 U	17.1 J	15.7	31.7 J	13.5 J	18.1	30.4	5.05 U	26.5	5.05 U	18.4	5.05 U	5.25 J	8.30 J	19.3	29.9	5.05 U	204	41.8	25.1 J
Central	DU-22	ISM			RSD	Not Detected	Not Detected	Not Detected	8.54%	14.0%	17.9%	27.0%	13.2%	14.0%	Not Detected	16.8%	Not Detected	10.9%	Not Detected	9.09%	23.7%	7.22%	19.2%	Not Detected	13.8%	7.7%	12.4%
					RSD Evaluation	Not Detected	Not Detected	Not Detected	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Not Detected	Very Good	Not Detected	Very Good	Not Detected	Very Good	Very Good	Very Good	Very Good	Not Detected	Very Good	Very Good	Very Good
				Adjusted Re	sult for DU-22 (1-2)	5.05 U	5.05 U	5.05 U	17.1 J	15.7	31.7 J	13.5 J	18.1	30.4	5.05 U	26.5	5.05 U	18.4	5.05 U	5.25 J	8.30 J	19.3	29.9	5.05 U	204	41.8	25.1 J
				Statistically	Adjusted Result for	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment
				As	ssociated DUs (1-2)	Calculated	Calculated	Calculated	Needed	Needed	Needed	Needed	Needed	Needed	Calculated	Needed	Calculated	Needed	Calculated	Needed	Needed	Needed	Needed	Calculated	Needed	Needed	Needed
			2-3	DU-22 (2-3)A	10/14/2022	4.99 U	4.99 U	4.99 U	11.3 J	11.7	22.8 J	8.48 J	13.2	27.0	4.99 U	21.3	4.99 U	13.3	4.99 U	8.23 J	21.6	25.4	23.2	4.99 U	155	65.2	19.0 J
			2-3 FR	DU-22 (2-3)B	10/14/2022 10/14/2022	4.96 U 5.05 U	4.96 U 5.05 U	4.96 U 5.05 U	17.9 J 11.2 J	17.3 18.6	31.6 J 44.8 J	12.6 J 18 J	28.0 19.8	34.5 28.4 J	4.96 U 5.05 U	25.8 19.2	4.96 U 5.05 U	25.0 22.6	4.96 U 5.05 U	8.61 J 5.05 U	12.0 8.01 J	26.4 11.9	30.2 22.2	4.96 U 5.05 U	225 207	56.9 32.5	27.4 J 29.2 J
			2-3 FR	DU-22 (2-3)C	Mean Concentration	5.05 U	5.05 U	5.05 U	13.5 J	15.9	33.1 J	13.0 J	20.3	30.0 J	5.03 U	22.1	5.05 U	20.3	5.05 U	7.30 J	13.9 J	21.2	25.2	5.05 U	196	51.5	25.2 J
					RSD	Not Detected	Not Detected	Not Detected	23.3%	18.9%	27.3%	29.9%	29.8%	10.9%	Not Detected	12.5%	Not Detected	24.9%	Not Detected	21.9%	41.1%	31.1%	14.1%	Not Detected	15.2%	26.9%	17.6%
					RSD Evaluation	Not Detected	Not Detected	Not Detected	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Not Detected	Very Good	Not Detected	Very Good	Not Detected	Very Good	Good	Very Good	Very Good	Not Detected	Very Good	Very Good	Very Good
				Adjusted Re	sult for DU-22 (2-3)	5.05 U	5.05 U	5.05 U	13.5 J	15.9	33.1 J	13.0 J	20.3	30.0 J	5.1 U	22.1	5.05 U	20.3	5.05 U	7.30 J	13.9 J	21.2	25.2	5.05 U	196	51.5	25.2 J
				•	Adjusted Result for	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment
				,	ssociated DUs (2-3)	Calculated	Calculated	Calculated	Needed	Needed	Needed	Needed	Needed	Needed	Calculated	Needed	Calculated	Needed	Calculated	Needed	Needed	Needed	Needed	Calculated	Needed	Needed	Needed
			0-1	DU-26 (0-1)A	11/9/2022	10.0	83.9	76.4	291	494	702	205 J	483	524	79.2	798	23.8	482	26.0	30.5	77.4	477	831	24.6	4,890 J	779	723 J
			0-1 FR	DU-26 (0-1)B	11/9/2022	5.53 J	43.3	41.4	163	260	355	122 J	260	290	43.3	377	11.2	256	17.8	22.8	45.3	237	422	13.5	2,550 J	407 J	382 J
			0-1 FR	DU-26 (0-1)C	11/9/2022	5.99 J	44.9	44.9	175	267	381	121 J	268	301	44.1	403	12.3	259	14.8	20.9	46.3	249	438	13.8	2,660 J	424 J	394 J
				N.	Mean Concentration	7.17 J	57.4	54.2	210	340	479	149 J	337	372	55.5	526	15.8	332	19.5	24.7	56.3	321	564	17.3	3,367 J	537 J	500 J
					RSD	28.0%	32.7%	29.0%	27.5%	31.9%	32.9%	26.4%	30.6%	29.0%	30.1%	36.6%	36.1%	31.8%	24.2%	16.8%	26.5%	34.4%	33.6%	29.8%	32.0%	32.0%	31.6%
					RSD Evaluation	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Good	Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good
				•	sult for DU-26 (0-1)	7.17 J	57.4	54.2	210	340	479	149 J	337	372	55.5	526	15.8	332	19.5	24.7	56.3	321	564	17.3	3,367 J	537 J	500 J
					Adjusted Result for ssociated DUs (0-1)	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed
			1-2		11/10/2022	<u> </u>	_		34.9	51.9					1			Needed	4.93 U	5.57 J				4.93 U		74.9	76.5 J
			1-2 1-2 FR	DU-26 (1-2)A DU-26 (1-2)B	11/10/2022	4.93 U 4.95 U	7.66 J 7.06 J	6.79 J 6.72 J	44.1	54.2	76.1 94.2	24.5 J 27.9 J	54.7 57.6	58.8 73.5	7.86 J 8.08 J	67.3 89.6	4.93 U 4.95 U	53.0 55.8	4.95 U	5.57 J	10.7 10.3	39.2 36.2	76.2 103	4.95 U	505 608	70.7	70.5 J 82.0 J
			1-2 FR	DU-26 (1-2)D	11/10/2022	4.89 J	31.0	18.2	127	197	246	73.8 J	181	180	28.2	194	4.65 U	179	5.77 J	8.86 J	16.7	75.7	257	4.65 U	1,660	158	281 J
			12110	. ,	Mean Concentration	4.92 J	15.2 J	10.6 J	68.7 J	101 J	139 J	42.1 J	97.8 J	104 J	14.7 J	117	4.95 U	96 J	5.22 J	6.65 J	12.6	50.4	145 J	4.95 U	924 J	101	147 J
Central	DU-26	ISM			RSD	0.5%	73.1%	51.0%	60.3%	67.2%	54.9%	53.4%	60.2%	51.9%	64.8%	47.2%	Not Detected	61.2%	7.50%	23.5%	23.3%	35.6%	54.8%	Not Detected	56.5%	39.7%	64.94%
					RSD Evaluation	Very Good	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Good	Not Detected	Poor	Very Good	Very Good	Very Good	Good	Poor	Not Detected	Poor	Good	Poor
				Adjusted Re	sult for DU-26 (1-2)	4.92 J	31.0	18.2	127	197	246	73.8 J	181	180	28.2	117	4.95 U	179	5.22 J	6.65 J	12.6	50.4	257	4.95 U	1,660	101	281 J
				Statistically	Adjusted Result for	No Adjustment	Adjust Upward	Adjust Upward	Adjust Upward	Adjust Upward	Adjust Upward	Adjust Upward	Adjust Upward	Adjust Upward	Adjust Upward	No Adjustment	No Adjustment	Adjust Upward	No Adjustment	No Adjustment	No Adjustment	No Adjustment	Adjust Upward	No Adjustment	Adjust Upward	No Adjustment	Adjust Upward
				As	ssociated DUs (1-2)	Needed	Using RSD	Using RSD	Using RSD	Using RSD	Using RSD	Using RSD	Using RSD	Using RSD	Using RSD	Needed	Calculated	Using RSD	Needed	Needed	Needed	Needed	Using RSD	Calculated	Using RSD	Needed	Using RSD
			2-3	DU-26 (2-3)A	11/11/2022	4.93 U	8.01 J	7.60 J	36.1	44.2	68.1	20.5 J	51.2	53.4	6.47 J	72.9	4.93 U	49.1	4.93 U	4.93 U	9.45 J	36.8	85.4	4.93 U	487	69.3	66.3 J
			2-3 FR	DU-26 (2-3)B	11/11/2022	4.98 U	13.0	14.3	81.2	99.5	136	50.2 J	102	106	16.5	144	4.98 U	100	4.98 U	5.3 J	12.4	74.3	158	4.98 U	993	124	148 J
			2-3 FR	DU-26 (2-3)C	11/11/2022	4.99 U	11.5	9.11 J	50.6	70.6	94.4	29.2 J	83.6	76.5	10.4	100	4.99 U	72.6	4.99 U	5.46 J	11.9	50.5	108	4.99 U	696	94	103 J
				N	Mean Concentration		10.8 J	10.3 J	56.0	71.4	100	33.3 J	78.9	78.6	11.1 J	106	4.99 U	73.9	4.99 U	5.22 J	11.3 J	53.9	117	4.99 U	725	96	106 J
					RSD	Not Detected	19.3%	27.8%	33.6%	31.6%	28.1%	37.4%	26.6%	27.4%	37.1%	27.7%	Not Detected	28.1%	Not Detected	4.2%	11.5%	28.8%	25.9%	Not Detected	28.6%	23.4%	31.6%
					RSD Evaluation		Very Good	Very Good	Very Good	Very Good	Very Good	Good	Very Good	Very Good	Good	Very Good	Not Detected	Very Good	Not Detected	Very Good	Very Good	Very Good	Very Good	Not Detected	Very Good	Very Good	Very Good
				•	sult for DU-26 (2-3)	4.99 U	10.8 J	10.3 J	56.0	71.4	100	33.3 J	78.9	78.6	11.1 J	106	4.99 U	73.9	4.99 U	5.22 J	11.3 J	53.9	117	4.99 U	725	95.6	106 J
					Adjusted Result for			No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment	No Adjustment	No Adjustment Needed	No Adjustment	No Adjustment Calculated	No Adjustment Needed	No Adjustment Calculated	No Adjustment	No Adjustment	No Adjustment	No Adjustment Needed	No Adjustment Calculated	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed
				A	ssociated DUs (2-3)	Calculated	Needed	INCCUCU	INCCUCU	INCCUEU	INCCUEU	INCCUCU	Needed	Needed	INCERCO	Needed	Calculated	INCCUEU	Calculateu	Needed	Needed	Needed	INCCUEU	Calculated	INCCUEU	INCCUEU	INCCUEU

Table I-4
Soil Results - PAHs and Dibenzofuran Field Replicate Statistics and Evaluation
Willamette Cove Upland Facility
Portland, Oregon

		Sample Type	Sample Depth (feet bgs)	Sample ID Sai	Sample Date		PAHs and Dibenzofuran by EPA Method 8270E-SIM Concentrations in μg/kg																				
Parcel	Decision Unit					Acenaphthene	Acenaphthylen	Anthracene	Benz(a)anthrac	Benzo(a)pyren	Benzo(b)fluora	Benzo(k)fluora	Benzo(g,h,i)per ylene	Chrysene	Dibenz(a,h)ant hracene	Fluoranthene	Fluorene	Indeno(1,2,3- cd)pyrene	ı- Methylnaphthal	Z- Methylnaphthal	Naphthalene	Phenanthrene	Pyrene	Dibenzofuran	Total HPAH	Total LPAH	cPAHs (BaP Eq.)
-			0-1	DU-38 (0-1)A	11/14/2022	4.88 U	5.90 J	7.00 J	36.5	33.1	59.4	17.8 J	30.3	49.8	4.94 J	66.9	4.88 U	29.1	ene 4.88 U	ene 4.88 U	8.39 J	35.2	64.3	4.88 U	392	63.8	50.8 J
			0-1 FR	DU-38 (0-1)B	11/14/2022	4.82 U	8.51 J	10.3	59.4	55.7	82.9 J	31.6 J	42.6	74.2	7.97 J	99.6	4.82 U	44.8	4.82 U	5.93 J	9.09 J	45.6	95.7	4.82 U	594	84.3	82.8 J
			0-1 FR	DU-38 (0-1)C	11/14/2022	5.04 U	10.2	8.90 J	46.6	50.0	73.9	26.4 J	40.7	60.1	7.19 J	89.7	5.04 U	42.5	5.04 U	6.31 J	13.2	48.3	78.8	5.56 J	516	92.0	73.8 J
			Mean Concentration			5.04 U	8.20 J 21.6%	8.73 J 15.5%	47.5 19.7%	46.3 20.7%	72.1 J 13.4%	25.3 J 22.5%	37.9	61.4 16.3%	6.70 J	85.4 16.0%	5.04 U Not Detected	38.8 17.8%	5.04 U Not Detected	5.71 J 10.6%	10.2 J 20.7%	43.0 13.1%	79.6 16.1%	5.09 J 6.60%	501 16.6%	80.0 14.9%	69.1 J 19.5%
			RSD Evaluation			Not Detected Not Detected	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	14.3% Very Good	Very Good	19.2% Very Good	Very Good	Not Detected	Very Good	Not Detected	Very Good							
			Adjusted Result for DU-38 (0-1			5.04 U	8.20 J	8.73 J	47.5	46.3	72.1 J	25.3 J	37.9	61.4	6.70 J	85.4	5.04 U	38.8	5.04 U	5.71 J	10.2 J	43.0	79.6	5.09 J	501	80.0	69.1 J
			Statistically Adjusted Result fo			No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment
				1	sociated DUs (0-1)	Calculated	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Calculated	Needed	Calculated	Needed							
			1-2 1-2 FR	DU-38 (1-2)A DU-38 (1-2)B	11/16/2022 11/16/2022	5 U 5.08 U	5.27 J 5.50 J	8.19 J 8.84 J	38.5 42.2	35.5 34.6	56.6 J 54.3	19.2 J 17.2 J	30.8 27.7	55.6 54.1	5.05 J 5.08 U	77.4 74.6	5.00 U 5.08 U	29.6 25.5	5.00 U 5.08 U	7.08 J 8.92 J	14.8 15.2	37.2 41.8	73.2 73.4	5.00 U 5.08 U	421 406	77.5 85.3	53.3 J 49.6 J
			1-2 FR	DU-38 (1-2)D	11/16/2022	5.04 U	5.91 J	8.40 J	46.8	42.8	62.6	23.4 J	35.7	60.6	6.06 J	72.3	5.04 U	34.3	5.04 U	6.90 J	14.3	38.4	70.5	5.04 U	455	79.0	63.5 J
				. ,	lean Concentration	5.08 U	5.56 J	8.48 J	42.5	37.6	57.8 J	19.9 J	31.4	56.8	5.40 J	75	5.08 U	29.8	5.08 U	7.63 J	14.8	39.1	72.4	5.08 U	427	80.6	55.5 J
East	DU-38	ISM	RSI		Not Detected	4.76%	3.20%	7.99%	9.76%	6.05%	13.0%	10.5%	4.90%	8.69%	2.79%	Not Detected	12.1%	Not Detected	12.0%	2.49%	4.98%	1.83%	Not Detected	4.80%	4.19%	10.6%	
			RSD Evaluation		Not Detected	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Not Detected	Very Good	Not Detected	Very Good	Very Good	Very Good	Very Good	Not Detected	Very Good	Very Good	Very Good	
			Adjusted Result for DU-38 (1-2 Statistically Adjusted Result fo		5.08 U	5.56 J No Adjustment	8.48 J	42.5	37.6 No Adjustment	57.8 J	19.9 J	31.4 No Adjustment	56.8 No Adjustment	5.40 J	75	5.08 U No Adjustment	29.8	5.08 U No Adjustment	7.63 J	14.8	39.1 No Adjustment	72.4	5.08 U No Adjustment	427 No Adjustment	80.6	55.5 J	
					sociated DUs (1-2)	No Adjustment Calculated	Needed	No Adjustment Needed	No Adjustment Needed	Needed	No Adjustment Needed	No Adjustment Needed	Needed	Needed	No Adjustment Needed	No Adjustment Needed	Calculated	No Adjustment Needed	Calculated	No Adjustment Needed	No Adjustment Needed	Needed	No Adjustment Needed	Calculated	Needed	No Adjustment Needed	No Adjustment Needed
			2-3	DU-38 (2-3)A	11/17/2022	4.98 U	4.98 U	5.50 J	36.2	27.8	44.1 J	15.2 J	20.5	41.4	4.98 U	63.5	4.98 U	21.9	4.98 U	4.98 U	6.47 J	25.6	59.8	4.98 U	333	47.5	40.7 J
			2-3 FR	DU-38 (2-3)B	11/17/2022	5.06 U	5.06 U	6.23 J	37.6	30.6	47.1 J	15.8 J	21.9	44.4	5.06 U	59.2	5.06 U	24.0	5.06 U	5.06 U	7.13 J	24.2	56.8	5.06 U	340	47.7	44.2 J
			2-3 FR	DU-38 (2-3)C	11/17/2022	5.35 J	5.07 U	15.6	50.9	28.3	51.0	19.7 J	18.4	68.2	5.07 U	146	5.07 U	20.8	5.07 U	5.07 U	7.88 J	37.4	113	5.07 U	519	73.8	43.4 J
				IV	lean Concentration RSD	5.13 J 3.1%	5.07 U Not Detected	9.11 J 50.5%	41.6 15.94%	28.9 4.22%	47.4 J 5.96%	16.9 J 11.8%	20.3 7.10%	51.3 23.4%	5.07 U Not Detected	89.6 44.6%	5.07 U Not Detected	22.2 5.97%	5.07 U Not Detected	5.07 U Not Detected	7.16 J 8.04%	29.1 20.4%	76.5 33.7%	5.07 U Not Detected	397 21.7%	56.3 21.9%	42.8 J 3.50%
			RSD Evaluation		Very Good	Not Detected	Poor	Very Good	Not Detected	Good	Not Detected	Very Good	Not Detected	Not Detected	Very Good	Very Good	Very Good	Not Detected	Very Good	Very Good	Very Good						
			Adjusted Result for DU-38 (2-3)			5.13 J	5.07 U	15.60	41.6	28.9	47.4 J	16.9 J	20.3	51.3	5.07 U	89.6	5.07 U	22.2	5.07 U	5.07 U	7.16 J	29.1	76.5	5.07 U	397	56.3	42.8 J
1				,	Adjusted Result for	No Adjustment	No Adjustment	Adjust Upward	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment				
		-	0.4	1	ssociated DUs (2-3)	Needed	Calculated	Using RSD	Needed	Needed	Needed	Needed	Needed	Needed	Calculated	Needed	Calculated	Needed	Calculated	Calculated	Needed	Needed	Needed	Calculated	Needed	Needed	Needed
			0-1 0-1 FR	DU-41 (0-1)A DU-41 (0-1)B	10/24/2022 10/24/2022	8.09 J 5.06 J	34.2 41.7	51.6 50.4	142 128	196 J 233	269 326	106 J 96.9 J	214 J 252	221 225	24.1 30.8	331 267	6.07 J 6.20 J	209 J 252	17.6 21.5	23.0 26.9	22.1 35.4	107 122	364 301	11.6 13.1	2,080 2,110	252 288	283 J 336 J
			0-1 FR	DU-41 (0-1)C	10/24/2022	8.96 J	31.6	60.5	112	172	271	77.1 J	186	197	25.4	261	7.76 J	183	10.3	15.7	23.9	164	268	18.4	1,750	312	255 J
				N	lean Concentration	7.37 J	35.8	54.2	127	200 J	289	93.3 J	217 J	214	26.8	286	6.68 J	215 J	16.47	21.9	27.1	131	311	14.4	1,980	284	291 J
					RSD	22.7%	11.9%	8.32%	9.63%	12.5%	9.15%	12.9%	12.4%	5.77%	10.8%	11.1%	11.5%	13.3%	28.2%	21.2%	21.7%	18.4%	12.8%	20.3%	8.24%	8.68%	11.5%
				Adjusted Day	RSD Evaluation sult for DU-41 (0-1)	Very Good 7.37 J	Very Good 35.8	Very Good 54.2	Very Good 127	Very Good 200 J	Very Good 289	Very Good 93.3 J	Very Good 217 J	Very Good 214	Very Good 26.8	Very Good 286	Very Good 6.68 J	Very Good 215 J	Very Good 16.47	Very Good 21.9	Very Good 27.1	Very Good 131	Very Good 311	Very Good 14.4	Very Good 1.980	Very Good 284	Very Good 291 J
				,	Adjusted Result for	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment
	DU-41			,	sociated DUs (0-1)) Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed
			1-2	DU-41 (1-2)A	10/26/2022	30.0	25.1 U	56.8	139	172	247	97.1 J	188	226	25.1	315	23.4	173	80.3	92.6	70.1	274	354	42.7	1,940	559	254 J
			1-2 FR	DU-41 (1-2)B	10/26/2022	14.2 U	28.3 U	56.6	123	189	287	92.3 J	190	235	26.4	277	13.7	183	101	115	83.8	254	319	37.1	1,920	544	276 J
			1-2 FR	DU-41 (1-2)C	10/26/2022 lean Concentration	10.1 U	22.2 U 28.3 U	27.0 46.8	86.1 116	134 165	212 249	65.4 J 84.9 J	144 174	161 207	18.9 23.5	194 262	6.46 J 14.5 J	135 164	55.9 79.1	62.8 90.1	56.4 70.1	138 222	215 296	21.6 33.8	1,370 1,743	307 470	197 J 242 J
Soil Berns		ISM			RSD	47.4%	Not Detected	29.9%	19.1%	13.9%	12.3%	16.4%	12.2%	15.9%	13.9%	19.3%	47.8%	12.6%	23.31%	23.7%	16.0%	27.0%	19.9%	26.4%	15.1%	24.6%	13.7%
			RSD Evaluatio		Good	Not Detected	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	
			Adjusted Result for DU-41 (1-2		18.1	28.3 U	46.8	116	165	249	84.9 J	174	207	23.5	262	14.5 J	164	79.1	90.1	70.1	222	296	33.8	1,743	470	242 J	
				,	Adjusted Result for sociated DUs (1-2)	No Adjustment Needed	No Adjustment Calculated	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed	No Adjustment Needed					
			2-3	DU-41 (2-3)A	10/28/2022	6.08 J	12.0	20.6	69.0	90.1	135	49.2 J	103	117	12.9	147	5.21 J	97.6	23.1	28.9	30.7	98.3	159	10.8	980	202	134 J
			2-3 FR	DU-41 (2-3)A DU-41 (2-3)B	10/28/2022	4.94 U	12.7	23.1	72.4	101	148	52.0 J	102	123	15.1	137	4.94 U	104	18.8	24.3	22.9	75.2	147	8.18 J	1,000	163	149 J
			2-3 FR	DU-41 (2-3)C	10/28/2022	7.48 J	13.1	23.4	71.2	101	148	53.1 J	106	124	14.4	168	6.68 J	104	28.8	31.6	30.0	119	187	12.9	1,080	231	148 J
				N	lean Concentration	1	12.6	22.4	70.9	97.4	144	51.4 J	104	121	14.1	151	5.61 J	102	23.6	28.3	27.9	97.5	164	10.6 J	1,020	199	144 J
					RSD RSD Evaluation		3.61%	5.61%	1.99%	5.28%	4.27% Very Good	3.19%	1.64%	2.55% Very Good	6.49%	8.57% Very Good	13.6% Very Good	2.96% Very Good	17.38%	10.7% Very Good	12.6% Very Good	18.3%	10.2%	18.2%	4.24%	14.0% Very Good	4.77%
				Adjusted Re	sult for DU-41 (2-3)	Very Good 6.17 J	Very Good 12.6	Very Good 22.4	70.9	Very Good 97.4	Very Good 144	Very Good 51.4 J	Very Good 104	Very Good 121	Very Good 14.1	Very Good 151	Very Good 5.61 J	Very Good 102	Very Good 23.6	Very Good 28.3	Very Good 27.9	Very Good 97.5	Very Good 164	Very Good 10.6 J	Very Good 1,020	Very Good 199	Very Good 144 J
				•	Adjusted Result for	1	1	1	No Adjustment	No Adjustment	1	No Adjustment	No Adjustment	1	No Adjustment												
					ssociated DUs (2-3)		Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed	Needed

ISM = Incremental Sampling Methodology.

bgs = Below ground surface.

EPA = United States Environmental Protection Agency.

FR = Field replicate. Field replicates are collected at different locations within the same ISM cell as the primary sample.

μg/kg = Micrograms per kilogram (parts per billion).

Mean Concentration = Arithmetic mean calculation for the field replicates. Mean concentrations are calculated using the detection limit (DL) if the target analyte is not detected. If all the three field replicates are not detected for the target analyte, then the maximum DL is used for the final result.

RSD = Relative Standard Deviation. RSDs are calculated using the DL if the target analyte is not detected.

RSD Evaluation = RSD <35% is "Very Good" precision, RSD >35% but <50% is "Good" precision, RSD >50% but <100% is "Poor" precision, RSD >100% is "Very Poor" precision.

U = Analyte was not detected.

J = Result is estimated.

Table I-5 Leave Surface Replicate Evaluation Willamette Cove Upland Facility Portland, Oregon

Decision Unit	Represetative	Excavation	Leave Surface	Analytes with Low	RSD	RSD Evaluation	Ecological Sc	reening Levels	Human Health S	creening Levels	Original Result	Statistically	Change in	Adjusted Ecavation Depth	
Decision onit	Decision Unit	Depth (ft bgs)	(feet bgs)	RSD Evaluation	Kob	K3D Evaluation	PRG	Hot Spot	PRG	Hot Spot	Original Result	Adjusted Result	Excavation Depth		
DU-7	DU-5	1	1-2	Merucry	0.58	Poor	0.073	0.15			0.130	0.205	Yes	2	
DU-17	DU-18	2	2-3	None											
DU-20	DU-22	1	1-2	Total PCBs	0.59	Poor	98	980	740	40,000	4.96	7.91	No		
DU-24	DU-26	2	2-3	Total HPAH	0.56	Poor	5,600	56,000			88.3	138	No		
		2		Total cPAHs	0.65	Poor			550	55,000	14.5	23.9	No		
DU-25	DU-26	2	2-3	Total HPAH	0.56	Poor	5,600	56,000			613	959	No		
		2	2-3	Total cPAHs	0.65	Poor			550	55,000	87.3	144	No		
DU-37	DU-26	0	0-1	None								-	-		
DII 25	DU-38	1	1.0	Total HPAH	0.56	Poor	5,600	56,000			704	1,101	No		
DU-35	DO-36	ı	1-2	cPAHs	0.65	Poor			550	55,000	119	196	No		
DU-38	DI 100	4	4.0	Total HPAH	0.56	Poor	5,600	56,000			427	669	No		
	DU-38	1	1-2	cPAHs	0.65	Poor	-		550	55,000	55.5	91.5	No		

ft bgs = feet below ground surface

RSD = relative standard deviation

PRG = preliminary remediation goal

Bolded values exceed the Preliminary Remediation Goal (PRG).

Shaded values exceed the hot spot level.

PCBs = polychlorinated biphenyls.

PRG = preliminary Remediation Goal: cleanup level adopted from the Revised Feasibility Study and Source Control Evaluation, Willamette Cove Upland Facility (Apex, 2019).

Hot spot level adopted from the Revised Feasibility Study and Source Control Evaluation, Willamette Cove Upland Facility (Apex, 2019).

HPAH = high-molecular-weight polycyclic aromatic hydrocarbon

cPAHs = carcinogenic polycyclic aromatic hydrocarbon

Low RSD Evaluation inclues a poor or very poor ratings

Statistically adjusted result is calcaulated by adjusting the original result upwards by the RSD