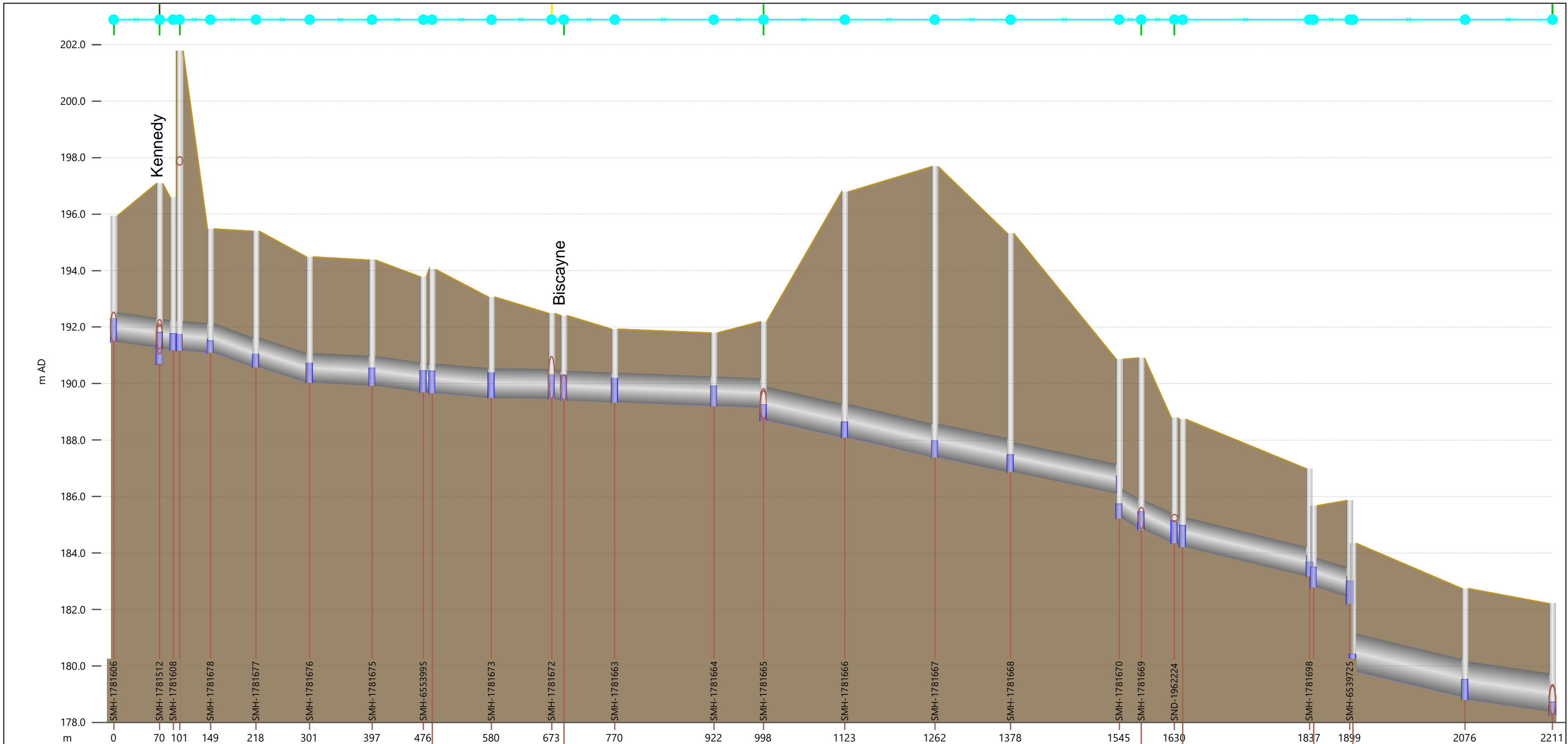


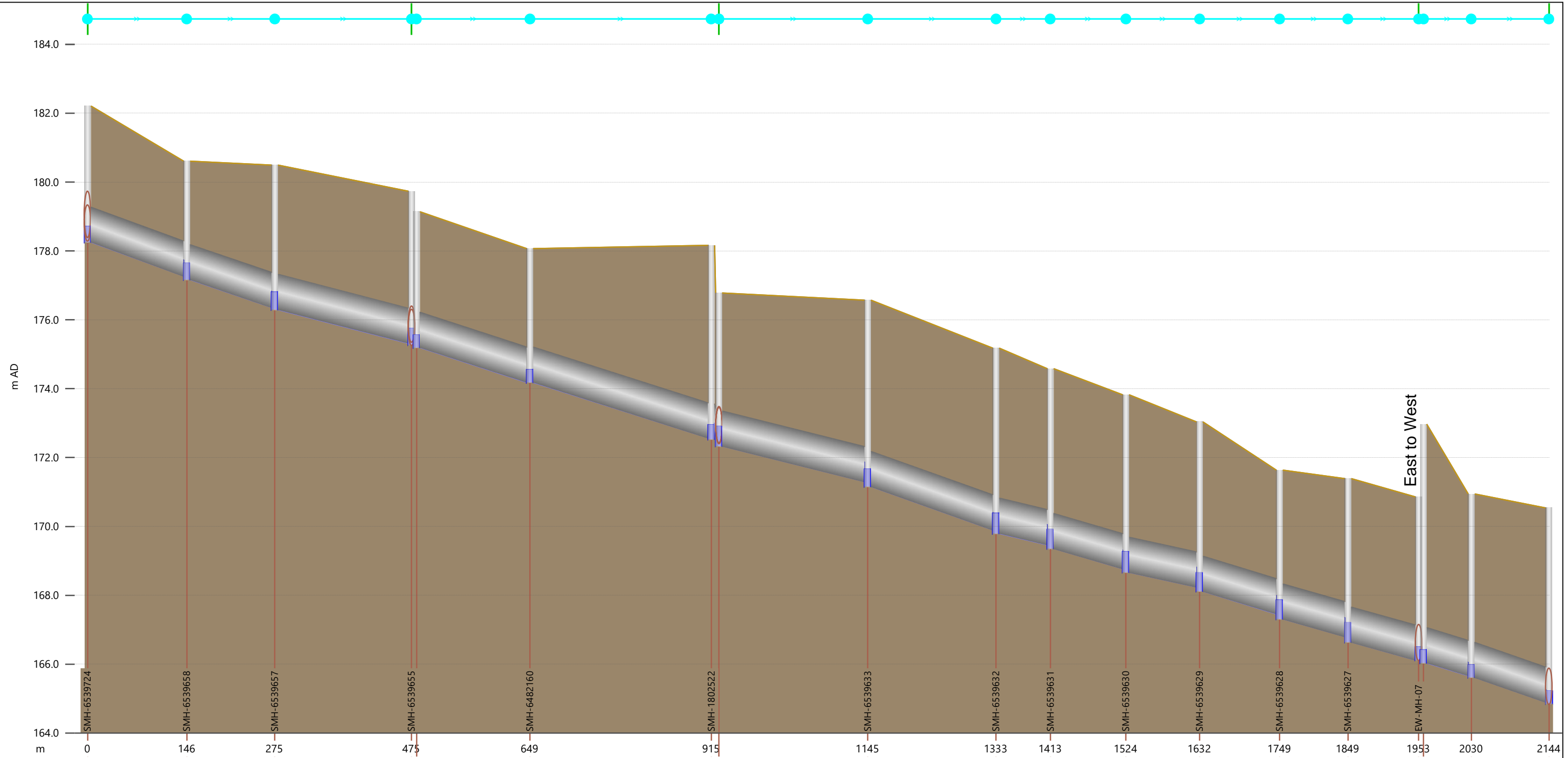
Link	-	-	XXXX000001.1	-	XXXX000007.1	-	-	-	-	XXXX000012.1	XXXX000013.1	-	-	XXXX000016.1	-	-	XXXX000011.1	-	-	XXXX000020.1	
length (m)	111.6	90.8	378.1	145.9	233.0	142.1	109.9	222.1	136.2	297.1	348.1	151.9	118.0	328.1	186.8	197.9	393.6	203.2	168.3	602.3	
height (mm)	1350	1350	1350	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	
us inv (m AD)	-	-	187.930	186.850	186.420	185.720	-	184.960	184.300	183.820	182.700	181.570	-	176.410	175.260	174.610	173.000	171.622	170.911	169.198	
ds inv (m AD)	-	-	186.950	186.420	185.720	185.290	-	184.300	183.820	182.700	181.570	181.030	-	175.260	174.610	174.000	171.622	170.911	170.322	167.090	
grad (m/m)	-	-	0.00259	0.00295	0.00300	0.00302	-	0.00297	0.00352	0.00377	0.00325	0.00356	-	0.00350	0.00348	0.00308	0.00350	0.00350	0.00350	0.00350	
r.pfc (m3/s)	4.105	-	2.718	3.838	3.875	3.888	3.875	3.854	4.197	4.341	4.028	4.216	4.167	4.185	4.171	3.925	4.183	4.182	4.183	4.183	
surc	0.57	0.57	0.80	0.79	0.79	0.78	0.77	0.76	0.71	0.74	0.73	0.70	0.73	0.73	0.74	0.73	0.87	0.82	0.78	0.83	
US flow (m3/s)	-	-	1.85200	3.57500	3.57500	3.57500	-	3.57500	3.57500	3.57500	3.57500	3.57500	-	3.57500	3.57500	3.57500	4.12672	4.12441	4.12426	4.12423	
DS depth (m)	0.773	-	1.086	1.179	1.180	1.176	1.156	1.088	1.072	1.110	1.066	0.987	1.089	1.095	1.113	0.987	1.257	1.195	1.061	1.061	
DS flow (m3/s)	-	-	1.85200	3.57500	3.57500	3.57500	-	3.57500	3.57500	3.57500	3.57500	3.57500	-	3.57500	3.57500	3.57500	4.12442	4.12426	4.12424	4.12355	
DS velocity (m/s)	2.187	-	1.501	2.452	2.444	2.440	2.464	2.605	2.655	2.550	2.664	2.900	2.602	2.586	2.544	2.900	2.641	2.731	3.086	3.085	
Node	-	-	XXXX000001	XXXX000002	-	-	-	-	-	XXXX000013	XXXX000014	-	-	XXXX000017	-	XXXX000011	XXXX000018	-	XXXX000020	XXXX000021	
ground (m AD)	-	-	192.800	192.000	191.800	194.800	-	192.850	189.100	188.550	191.500	186.000	-	187.900	183.500	180.600	178.600	180.900	178.950	176.000	170.800
expr:Freeboard	-	-	4.029324	3.964630	4.202344	7.901791	-	-	3.713617	3.659283	7.691696	3.365234	-	10.402563	7.146393	4.879037	4.267847	8.023642	6.845889	5.530914	2.897031

Etobicoke Creek Alternative - Existing North Trunk - Surcharge - 5-year SCS Storm



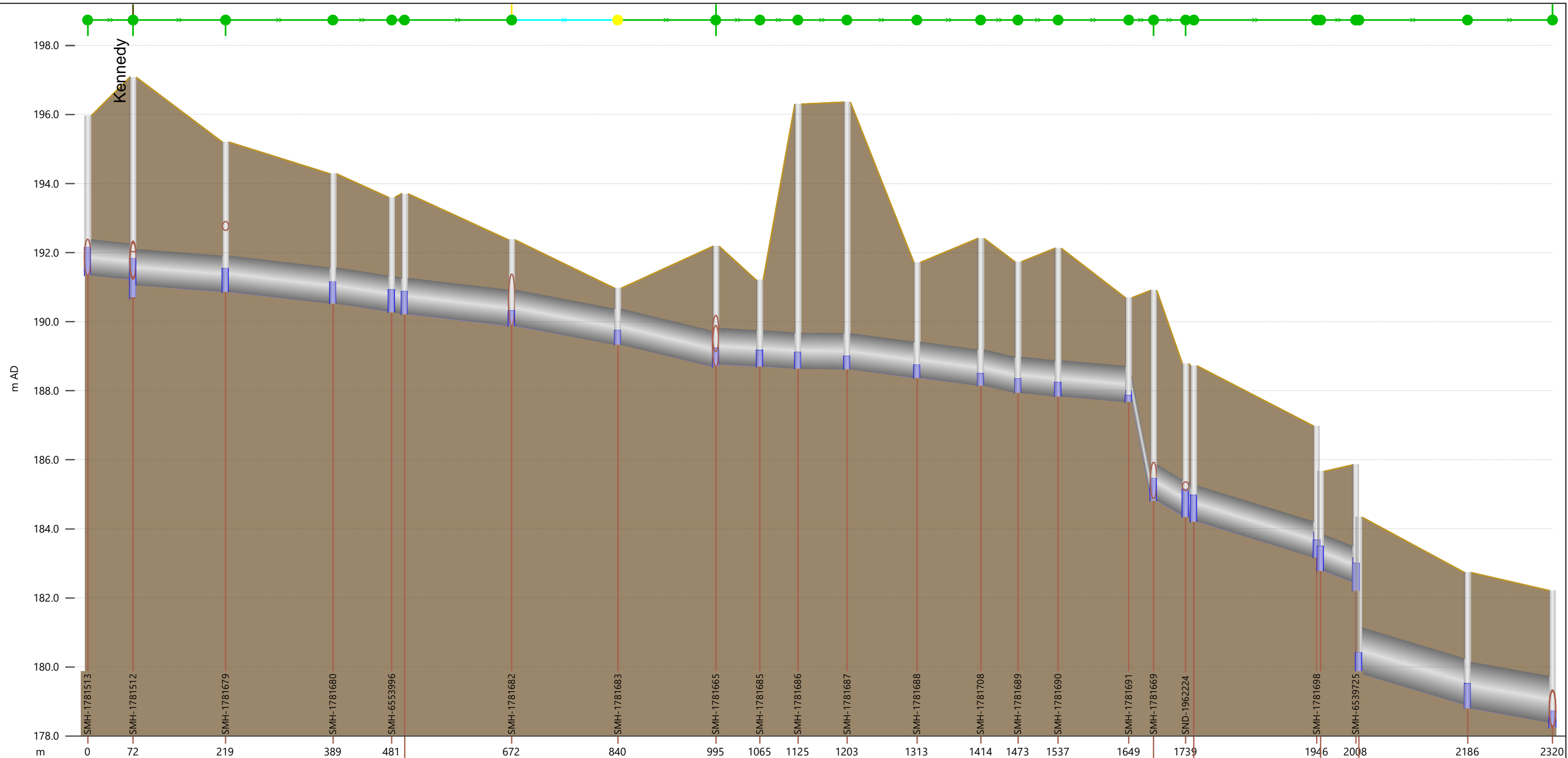
Link	-	-	-	-	-	-	-	-	-	-	SMH-1781663.1	-	SMH-1781665.1	SMH-1781666.1	-	SMH-1781668.1	-	-	SMH-1781671.1	-	SMH-6539727.1	SMH-6539726.1	
length (m)	70.4	-	47.2	69.8	82.5	96.0	78.7	90.9	92.6	-	152.4	76.3	124.8	138.5	116.2	167.0	-	50.7	194.6	-	55.5	172.3	134.3
height (mm)	1050	-	1050	1050	1050	1050	1050	1050	1050	-	1050	1050	1200	1200	1200	1050	-	1050	1050	-	1050	1350	1350
us inv (m AD)	191.469	-	-	191.088	190.572	190.030	189.923	189.652	189.490	-	189.332	189.198	188.686	188.085	187.379	186.863	-	-	184.206	-	-	179.788	178.799
ds inv (m AD)	191.274	-	-	190.572	190.030	189.923	189.703	189.490	189.457	-	189.198	189.131	188.085	187.381	186.864	186.104	-	-	183.167	-	-	178.899	178.383
grad (m/m)	0.00277	-	-	0.00739	0.00657	0.00111	0.00280	0.00178	0.00036	-	0.00087	0.00088	0.00088	0.00482	0.00508	0.00443	-	-	0.00534	-	-	0.00516	0.00310
r.pfc (m3/s)	1.437	-	1.124	2.348	2.213	0.912	1.444	1.153	0.516	-	0.805	0.810	0.809	2.706	2.780	2.596	-	2.544	1.995	-	2.084	3.834	2.972
surc	0.74	-	0.53	0.43	0.65	0.64	0.71	0.84	0.83	-	0.84	0.79	0.67	0.46	0.48	0.51	-	0.73	0.70	-	0.67	0.46	0.53
US flow (m3/s)	1.46185	-	-	0.75827	0.75827	0.75831	0.75851	0.75894	0.75943	-	0.96207	0.96187	0.96171	1.15955	1.15944	1.15931	-	-	1.64028	-	-	1.64270	1.64252
DS depth (m)	0.690	-	0.490	0.452	0.677	0.621	0.745	0.880	0.839	-	0.838	0.707	0.554	0.552	0.571	0.608	-	0.765	0.732	-	0.702	0.621	0.680
DS flow (m3/s)	1.46185	-	-	0.75827	0.75831	0.75851	0.75884	0.75941	0.75997	-	0.96188	0.96171	0.96169	1.15945	1.15932	1.15925	-	-	1.64017	-	-	1.64252	1.64240
DS velocity (m/s)	2.425	-	1.914	2.130	1.285	1.437	1.172	0.999	1.353	-	1.299	1.550	2.075	2.283	2.183	2.016	-	2.702	2.558	-	2.671	2.556	2.273
Node	-	-	-	-	-	-	-	-	-	-	-	-	SMH-1781666	SMH-1781667	SMH-1781668	-	-	-	-	-	-	-	-
ground (m AD)	-	-	-	-	195.392	194.480	194.373	-	-	-	193.060	-	191.922	191.788	192.186	196.785	197.679	195.313	190.851	-	188.726	186.977	-
expr:Freeboard	-	-	-	-	-	3.772938	3.829619	-	-	-	2.690676	-	1.752704	1.883047	2.946590	8.156429	9.726668	7.841137	5.122835	-	-	3.753863	3.304698

Etobicoke Creek Alternative - Existing North Trunk - Surcharge - 5-year SCS Storm



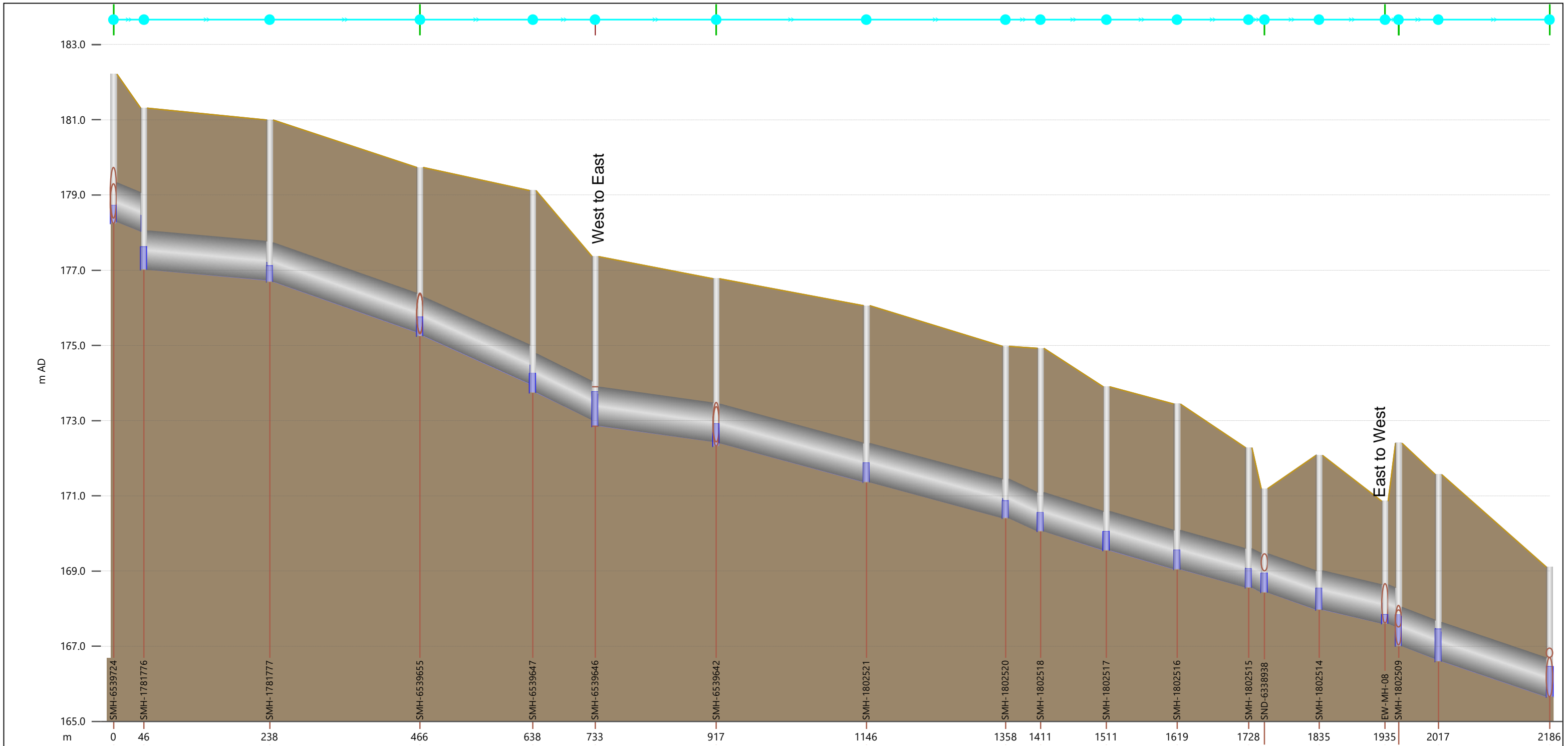
Link	SMH-6539724.2	SMH-6539658.1	SMH-6539657.1	SMH-1781778.1	SMH-6482160.1	SMH-6539642.2	SMH-6539633.1	-	-	-	-	-	-	-	-	-	-		
length (m)	145.6	129.1	200.7	166.5	266.0	218.4	188.2	79.7	110.8	108.1	117.4	100.2	103.7	70.1	114.0	-	-		
height (mm)	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050		
us inv (m AD)	178.240	177.150	176.280	175.180	174.169	172.315	171.140	169.780	169.339	168.650	168.100	167.291	166.620	166.019	165.600	-	-		
ds inv (m AD)	177.250	176.340	175.302	174.169	172.550	171.280	169.880	169.449	168.750	168.220	167.440	166.780	166.101	165.650	164.880	-	-		
grad (m/m)	0.00680	0.00628	0.00487	0.00607	0.00609	0.00474	0.00670	0.00415	0.00531	0.00398	0.00562	0.00510	0.00501	0.00527	0.00632	-	-		
r.pfc (m3/s)	2.252	2.164	1.907	2.128	2.131	1.880	2.235	1.760	1.991	1.722	2.048	1.950	1.933	1.982	2.171	-	-		
surc	0.45	0.46	0.50	0.36	0.38	0.55	0.50	0.57	0.53	0.58	0.52	0.54	0.54	0.37	0.36	-	-		
US flow (m3/s)	0.93924	0.93918	0.93913	0.58958	0.58955	1.09119	1.09110	1.09108	1.09106	1.09101	1.09098	1.09094	1.09089	0.58876	0.58875	-	-		
DS depth (m)	0.474	0.488	0.524	0.380	0.398	0.582	0.522	0.593	0.557	0.593	0.545	0.567	0.571	0.393	0.376	-	-		
DS flow (m3/s)	0.93919	0.93913	0.93910	0.58955	0.58948	1.09110	1.09108	1.09107	1.09101	1.09099	1.09094	1.09089	1.09084	0.58875	0.58874	-	-		
DS velocity (m/s)	2.477	2.385	2.176	2.084	1.959	2.215	2.539	2.164	2.341	2.164	2.405	2.293	2.273	1.989	2.111	-	-		
Node	-	SMH-6539658	SMH-6539657	-	-	SMH-6482160	SMH-1802522	-	SMH-6539633	SMH-6539632	-	-	-	-	-	-	-	-	
ground (m AD)	182.210	180.610	180.490	179.731	179.140	178.069	178.160	176.775	176.570	175.180	174.579	173.820	173.040	171.631	171.390	-	-	170.940	-
expr:Freeboard	-	2.972091	3.685129	3.981702	3.580033	3.519867	5.211941	3.866431	4.906441	4.794716	4.668478	4.553749	4.390098	3.767078	4.191041	-	-	4.962766	-

Etobicoke Creek Alternative - Existing South Trunk - Surcharge - 5-year SCS Storm



Link	-	SMH-1781512.1	SMH-1781679.1	-	-	SMH-1781681.1	SMH-1781682.1	SMH-1781683.1	-	-	-	-	-	-	-	-	-	-	-	SMH-1781671.1	-	SMH-6539727.1	SMH-6539726.1	
length (m)	71.9	146.6	170.0	93.0	-	169.6	168.1	155.3	69.8	60.1	77.9	110.6	101.0	59.0	63.5	112.0	39.3	50.7	194.6	55.5	172.3	134.3		
height (mm)	1050	1050	1050	1050	-	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	750	1050	1050	1050	1350	1350		
us inv (m AD)	191.335	191.050	190.859	190.520	-	190.213	189.874	189.329	188.765	-	188.634	188.619	188.366	-	-	187.832	-	-	184.206	-	179.788	178.799		
ds inv (m AD)	191.216	190.859	190.520	190.288	-	189.874	189.329	188.686	188.697	-	188.619	188.366	188.143	-	-	187.667	-	-	183.167	-	178.899	178.383		
grad (m/m)	0.00166	0.00130	0.00199	0.00250	-	0.00200	0.00324	0.00414	0.00097	-	0.00019	0.00229	0.00221	-	-	0.00147	-	-	0.00534	-	0.00516	0.00310		
r.pfc (m3/s)	1.111	0.986	1.220	1.364	-	1.221	1.555	1.757	0.852	0.884	0.379	1.306	1.283	1.629	1.089	1.048	-	2.544	1.995	2.084	3.834	2.972		
surc	0.74	0.71	0.64	0.60	-	0.62	0.42	0.53	0.45	0.46	0.46	0.36	0.36	0.39	0.39	0.39	0.79	0.73	0.70	0.67	0.46	0.53		
US flow (m3/s)	1.28646	0.89343	0.89525	0.89519	-	0.89516	0.55541	0.55527	0.35717	-	0.35683	0.35677	0.35671	-	-	0.35645	-	-	1.64028	-	1.64270	1.64252		
DS depth (m)	0.645	0.678	0.626	0.630	-	0.534	0.418	0.554	0.474	0.479	0.378	0.379	0.351	0.415	0.409	0.332	-	0.765	0.732	0.702	0.621	0.680		
DS flow (m3/s)	1.28645	0.89339	0.89519	0.89516	-	0.89514	0.55528	0.55511	0.35696	-	0.35677	0.35671	0.35664	-	-	0.35639	-	-	1.64017	-	1.64252	1.64240		
DS velocity (m/s)	2.305	1.511	1.664	1.654	-	2.022	1.730	1.199	0.942	0.926	1.272	1.269	1.405	1.122	1.141	1.517	-	2.702	2.558	2.671	2.556	2.273		
Node	-	-	SMH-1781679	SMH-1781680	-	-	SMH-1781682	SMH-1781683	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SMH-6539726	-
ground (m AD)	-	197.079	195.199	194.280	-	193.703	192.374	190.969	192.186	-	-	196.359	191.716	192.413	-	192.124	-	-	188.726	186.977	-	184.338	182.739	-
expr:Freeboard	-	5.262090	3.662806	3.134218	-	2.832883	2.060646	1.225851	2.946590	-	-	7.362281	2.971508	-	-	3.882698	-	-	3.753863	3.304698	-	3.928790	3.225954	-

Etobicoke Creek Alternative - Existing South Trunk - Surcharge - 5-year SCS Storm



Link	-	SMH-1781776.1	SMH-1781777.1	SMH-6539655.2	-	SMH-6539646.1	SMH-6539642.1	SMH-1802521.1	-	-	-	-	-	-	-	SMH-1799128.1
length (m)	46.3	191.4	228.6	171.9	94.9	184.4	228.4	211.9	53.2	100.3	107.5	109.0	-	83.4	100.3	169.3
height (mm)	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	-	1050	1050	1050
us inv (m AD)	-	177.010	176.693	175.250	173.740	172.854	172.400	171.358	-	170.053	169.544	169.044	-	168.425	167.969	166.595
ds inv (m AD)	-	176.726	175.344	173.970	173.010	172.430	171.360	170.404	-	169.544	169.044	168.559	-	167.969	167.597	165.649
grad (m/m)	-	0.00148	0.00590	0.00745	0.00769	0.00230	0.00455	0.00450	-	0.00507	0.00465	0.00445	-	0.00547	0.00371	0.00559
r.pfc (m3/s)	2.038	1.052	2.098	2.357	2.396	1.310	1.843	1.833	2.218	1.945	1.863	1.822	-	2.019	1.663	2.042
surc	0.41	0.58	0.40	0.47	0.72	0.80	0.48	0.49	0.47	0.48	0.49	0.49	-	0.54	0.54	0.77
US flow (m3/s)	-	0.70315	0.70298	1.05239	1.05233	1.35216	0.85028	0.85017	-	0.85005	0.84998	0.84992	-	0.93423	0.93414	1.81165
DS depth (m)	0.432	0.471	0.425	0.498	0.754	0.662	0.508	0.509	0.493	0.506	0.512	0.511	-	0.569	0.547	0.810
DS flow (m3/s)	-	0.70298	0.70290	1.05233	1.05216	1.35202	0.85017	0.85009	-	0.84998	0.84992	0.84989	-	0.93415	0.93409	1.81150
DS velocity (m/s)	2.094	1.868	2.141	2.603	1.588	2.350	2.049	2.040	2.129	2.059	2.029	2.032	-	1.955	2.049	2.566
Node	-	SMH-1781777	SMH-6539655	SMH-6539647	SMH-6539646	SMH-6539642	SMH-1802521	SMH-1802520	-	-	-	-	-	-	-	-
ground (m AD)	181.310	180.993	179.731	179.120	177.364	176.775	176.058	174.974	174.923	173.904	173.444	-	172.079	-	171.565	169.104
expr:Freeboard	3.689593	3.874821	3.981702	4.871312	3.600282	3.866431	4.190309	4.112611	-	3.854211	3.888489	-	3.541555	-	4.110074	2.646755

**Etobicoke Creek Alternative - Proposed Trunk
Surcharge - 5-year SCS Storm**

Location	US node ID	US invert level (m AD)	DS invert level (m AD)	Max Surcharge state
Kennedy	XXXX000004	190.68	190.02	0.57
	XXXX000003	190.02	189.75	0.57
	XXXX000001	187.93	186.95	0.8
Biscayne	XXXX000002	186.85	186.42	0.79
	XXXX000007	186.42	185.72	0.79
	XXXX000008	185.72	185.29	0.78
	XXXX000009	185.29	184.96	0.77
	XXXX000005	184.96	184.3	0.76
	XXXX000006	184.3	183.82	0.71
	XXXX000012	183.82	182.7	0.74
	XXXX000013	182.7	181.57	0.73
	WestCr_407	XXXX000014	181.57	181.03
XXXX000015		176.82	176.41	0.73
XXXX000016		176.41	175.26	0.73
XXXX000017		175.26	174.61	0.74
WestEast	XXXX000010	174.61	174	0.73
	XXXX000011	173	171.622	0.87
	XXXX000018	171.622	170.911	0.82
	XXXX000019	170.911	170.322	0.78
	XXXX000020	169.198	167.09	0.83

**Etobicoke Creek Alternative - Proposed Trunk
Freeboard - 25-year SCS Storm**

Location	Node ID	Freeboard (m)	US invert level (m AD)
Kennedy	XXXX000004	5.742971	190.68
	XXXX000003	3.807825	190.02
	XXXX000001	4.029324	187.93
Biscayne	XXXX000002	3.96463	186.85
	XXXX000007	4.202344	186.42
	XXXX000008	7.901791	185.72
	XXXX000009	6.335828	185.29
	XXXX000005	6.735483	184.96
	XXXX000006	3.713617	184.3
	XXXX000012	3.659283	183.82
	XXXX000013	7.691696	182.7
WestCr_407	XXXX000014	3.365234	181.57
	XXXX000015	8.987341	176.82
	XXXX000016	10.402563	176.41
	XXXX000017	7.146393	175.26
WestEast	XXXX000010	4.879037	174.61
	XXXX000011	4.15069	173
	XXXX000018	7.956351	171.622
	XXXX000019	6.819247	170.911
	XXXX000020	5.431885	169.198
EastWest	XXXX000021	2.832974	167.09

**Etobicoke Creek Alternative - Existing North Trunk
Surcharge - 5-year SCS Storm**

Location	US node ID	US invert level (m AD)	Max Surcharge state
Kennedy	SMH-1781606	191.469	0.74
	SMH-1781512	191.229	0.55
	SMH-1781608	191.185	0.54
	SND-6337990	191.168	0.53
	SMH-1781678	191.088	0.43
	SMH-1781677	190.572	0.65
	SMH-1781676	190.03	0.64
	SMH-1781675	189.923	0.71
	SMH-6553995	189.69	0.75
	SMH-1781674	189.652	0.84
Biscayne	SMH-1781673	189.49	0.83
	SMH-1781672	189.457	0.85
	SMH-1781662	189.4	0.84
	SMH-1781663	189.332	0.79
	SMH-1781664	189.198	0.67
	SMH-1781665	188.686	0.46
	SMH-1781666	188.085	0.48
	SMH-1781667	187.379	0.51
	SMH-1781668	186.863	0.58
	SMH-1781670	185.221	0.55
	SMH-1781669	184.815	0.73
	SND-1962224	184.337	0.72
	SMH-1781671	184.206	0.7

**Etobicoke Creek Alternative - Existing North Trunk
Surcharge - 5-year SCS Storm**

Location	US node ID	US invert level (m AD)	Max Surcharge state
WestCr_407	SMH-1781698	183.167	0.48
	SMH-1781699	182.777	0.67
	SMH-6539725	182.194	0.65
	SMH-6539727	179.788	0.46
	SMH-6539726	178.799	0.53
	SMH-6539724	178.24	0.45
	SMH-6539658	177.15	0.46
	SMH-6539657	176.28	0.5
	SMH-6539655	175.337	0.39
	SMH-1781778	175.18	0.36
WestEast	SMH-6482160	174.169	0.38
	SMH-1802522	172.52	0.46
	SMH-6539642	172.315	0.55
	SMH-6539633	171.14	0.5
	SMH-6539632	169.78	0.57
	SMH-6539631	169.339	0.53
	SMH-6539630	168.65	0.58
	SMH-6539629	168.1	0.52
	SMH-6539628	167.291	0.54
	SMH-6539627	166.62	0.54
EastWest	EW-MH-07	166.101	0.38
	SMH-6539626	166.019	0.37
	SMH-6539625	165.6	0.36

**Etobicoke Creek Alternative - Existing North Trunk
Surcharge - 5-year SCS Storm**

Location	US node ID	US invert level (m AD)	Max Surcharge state
	SMH-6539624	164.83	0.38
	SMH-6539623	164.14	0.37
	SND-6514264	162.812	0.41
	SMH-6525965	162.75	0.38
	SMH-6525945	161.52	0.35

**Etobicoke Creek Alternative - Existing North Trunk
Freeboard - 25-year SCS Storm**

Location	Node ID	US invert level (m AD)	expr:Freeboard
Kennedy	SMH-1781606	191.469	3.571426
	SMH-1781512	191.229	5.126745
	SMH-1781608	191.185	4.714623
	SND-6337990	191.168	9.953149
	SMH-1781678	191.088	3.874204
	SMH-1781677	190.572	4.177126
	SMH-1781676	190.03	3.452076
	SMH-1781675	189.923	3.493285
	SMH-6553995	189.69	3.012796
	SMH-1781674	189.652	3.300377
Biscayne	SMH-1781673	189.49	2.452487
	SMH-1781672	189.457	2.009745
	SMH-1781662	189.4	1.949438
	SMH-1781663	189.332	1.627185
	SMH-1781664	189.198	1.814276
	SMH-1781665	188.686	2.821574
	SMH-1781666	188.085	8.050045
	SMH-1781667	187.379	9.614883
	SMH-1781668	186.863	7.69685
	SMH-1781670	185.221	4.249437
SMH-1781669	184.815	4.459855	
SND-1962224	184.337	2.719631	
SMH-1781671	184.206	3.119188	

**Etobicoke Creek Alternative - Existing North Trunk
Freeboard - 25-year SCS Storm**

Location	Node ID	US invert level (m AD)	expr:Freeboard
	SMH-1781698	183.167	2.767359
	SMH-1781699	182.777	1.542061
	SMH-6539725	182.194	2.189037
	SMH-6539727	179.788	3.802752
	SMH-6539726	178.799	3.071428
WestCr_407	SMH-6539724	178.24	3.402581
	SMH-6539658	177.15	2.89775
	SMH-6539657	176.28	3.58108
	SMH-6539655	175.337	3.882825
	SMH-1781778	175.18	3.495164
WestEast	SMH-6482160	174.169	3.435013
	SMH-1802522	172.52	5.106762
	SMH-6539642	172.315	3.761649
	SMH-6539633	171.14	4.794289
	SMH-6539632	169.78	4.7042
	SMH-6539631	169.339	4.544424
	SMH-6539630	168.65	4.452202
	SMH-6539629	168.1	4.29267
	SMH-6539628	167.291	3.667377
	SMH-6539627	166.62	4.087906
EastWest	EW-MH-07	166.101	4.165313
	SMH-6539626	166.019	6.367743
	SMH-6539625	165.6	4.798459

**Etobicoke Creek Alternative - Existing South Trunk
Surcharge - 5-year SCS Storm**

Loaction	US node ID	US invert level (m AD)	Max Surcharge state
Kennedy	SMH-1781513	191.335	0.74
	SMH-1781512	191.05	0.71
	SMH-1781679	190.859	0.64
	SMH-1781680	190.52	0.6
	SMH-6553996	190.264	0.63
	SMH-1781681	190.213	0.62
Biscayne	SMH-1781682	189.874	0.42
	SMH-1781683	189.329	0.53
	SMH-1781665	188.765	0.45
	SMH-1781685	188.697	0.46
	SMH-1781686	188.634	0.46
	SMH-1781687	188.619	0.36
	SMH-1781688	188.366	0.36
	SMH-1781708	188.143	0.39
	SMH-1781689	187.933	0.39
	SMH-1781690	187.832	0.39
	SMH-1781691	187.667	0.79
	SMH-1781669	184.815	0.73
	SND-1962224	184.337	0.72
	SMH-1781671	184.206	0.7
SMH-1781698	183.167	0.48	
SMH-1781699	182.777	0.67	
SMH-6539725	182.194	0.65	

**Etobicoke Creek Alternative - Existing South Trunk
Surcharge - 5-year SCS Storm**

Loaction	US node ID	US invert level (m AD)	Max Surcharge state
WestCr_407	SMH-6539727	179.788	0.46
	SMH-6539726	178.799	0.53
	SMH-6539724	178.283	0.41
	SMH-1781776	177.01	0.58
	SMH-1781777	176.693	0.4
WestEast	SMH-6539655	175.25	0.47
	SMH-6539647	173.74	0.72
	SMH-6539646	172.854	0.8
	SMH-6539642	172.4	0.48
	SMH-1802521	171.358	0.49
	SMH-1802520	170.404	0.47
	SMH-1802518	170.053	0.48
	SMH-1802517	169.544	0.49
	SMH-1802516	169.044	0.49
	SMH-1802515	168.557	0.49
EastWest	SND-6338938	168.425	0.54
	SMH-1802514	167.969	0.54
	EW-MH-08	167.597	0.3
	SMH-1802509	167	0.77
	SMH-1799128	166.595	0.77
	SND-6338956	165.649	0.77
	SMH-1799262	165.211	0.78
SND-6338973	164.098	0.77	

**Etobicoke Creek Alternative - Existing South Trunk
Surcharge - 5-year SCS Storm**

Loaction	US node ID	US invert level (m AD)	Max Surcharge state
	SND-6519692	163.918	0.75
	SND-6338981	163.761	0.8
	SMH-1799129	163.559	0.78

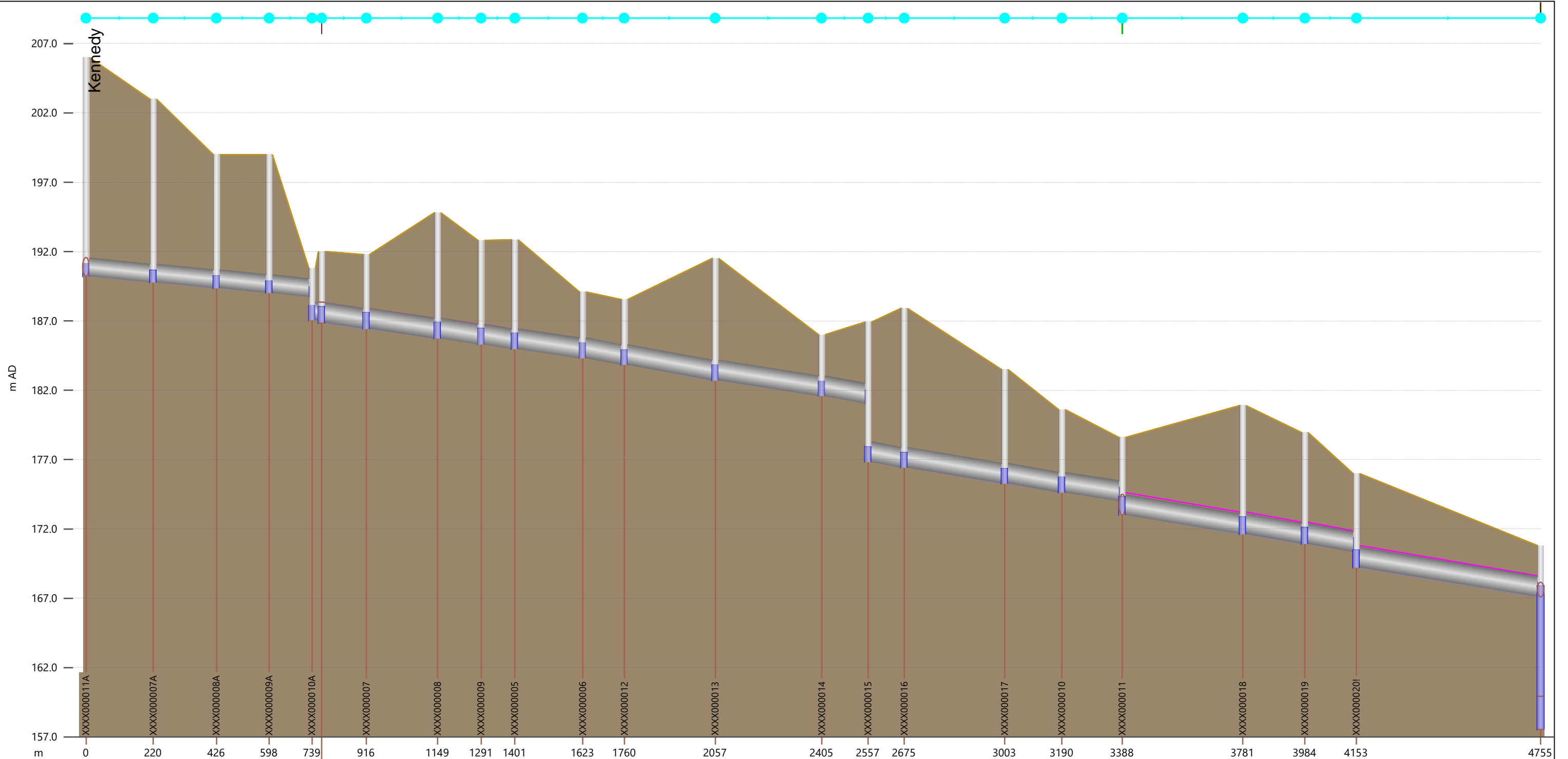
**Etobicoke Creek Alternative - Existing South Trunk
Freeboard - 25-year SCS Storm**

Location	Node ID	US invert level (m AD)	expr:Freeboard
Kennedy	SMH-1781513	191.335	3.660297
	SMH-1781512	191.05	5.126745
	SMH-1781679	190.859	3.563304
	SMH-1781680	190.52	3.034852
	SMH-6553996	190.264	2.586678
Biscayne	SMH-1781681	190.213	2.743405
	SMH-1781682	189.874	1.903877
	SMH-1781683	189.329	1.07778
	SMH-1781665	188.765	2.821574
	SMH-1781685	188.697	1.910409
	SMH-1781686	188.634	7.086242
	SMH-1781687	188.619	7.273474
	SMH-1781688	188.366	2.883664
	SMH-1781708	188.143	3.83048
	SMH-1781689	187.933	3.284636
	SMH-1781690	187.832	3.787712
	SMH-1781691	187.667	2.794905
	SMH-1781669	184.815	4.459855
	SND-1962224	184.337	2.719631
	SMH-1781671	184.206	3.119188
SMH-1781698	183.167	2.767359	
SMH-1781699	182.777	1.542061	
SMH-6539725	182.194	2.189037	

**Etobicoke Creek Alternative - Existing South Trunk
Freeboard - 25-year SCS Storm**

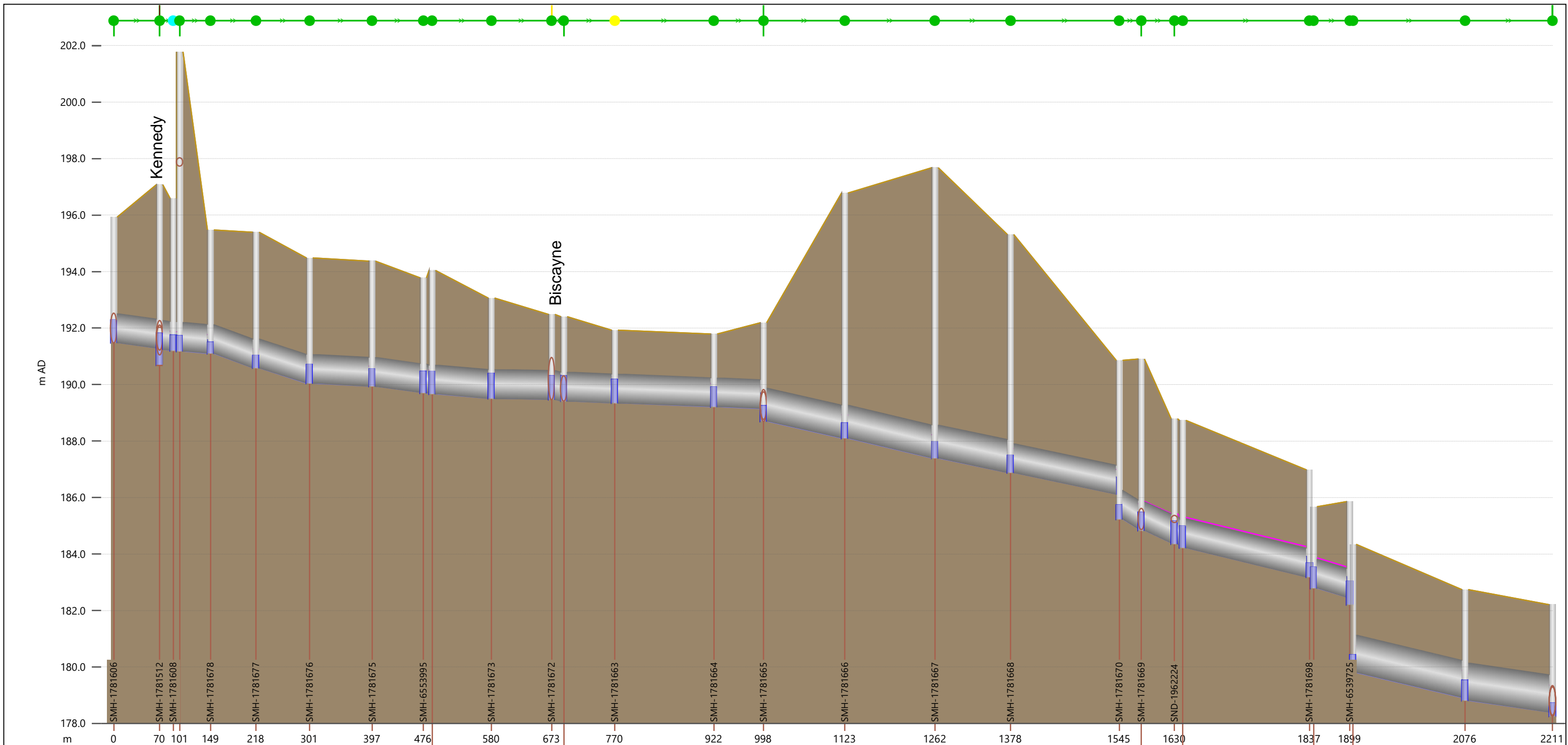
Location	Node ID	US invert level (m AD)	expr:Freeboard
WestCr_407	SMH-6539727	179.788	3.802752
	SMH-6539726	178.799	3.071428
	SMH-6539724	178.283	3.402581
	SMH-1781776	177.01	3.538378
	SMH-1781777	176.693	3.783039
WestEast	SMH-6539655	175.25	3.882825
	SMH-6539647	173.74	4.690633
	SMH-6539646	172.854	3.277925
	SMH-6539642	172.4	3.761649
	SMH-1802521	171.358	4.094911
EastWest	SMH-1802520	170.404	4.016908
	SMH-1802518	170.053	4.262249
	SMH-1802517	169.544	3.749734
	SMH-1802516	169.044	3.785354
	SMH-1802515	168.557	3.111488
	SND-6338938	168.425	2.137151
	SMH-1802514	167.969	3.41184
	EW-MH-08	167.597	2.968261
	SMH-1802509	167	4.509215
	SMH-1799128	166.595	4.052717

CAA Lands Alternative - Proposed Trunk - Surcharge - 5-year SCS Storm



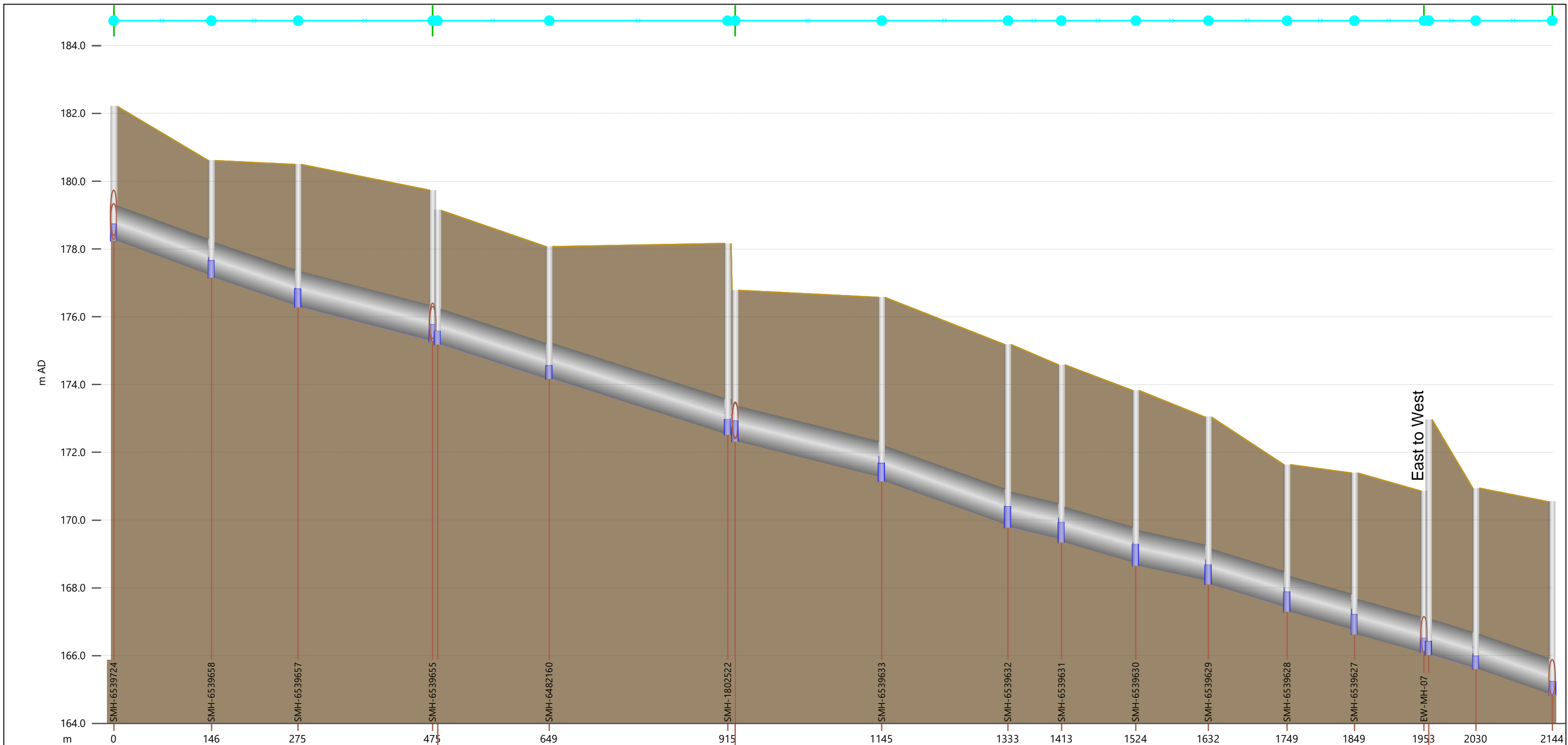
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length (m)	219.6	206.7	172.1	140.3	145.9	233.0	142.1	109.9	222.1	136.2	297.1	348.1	151.9	118.0	328.1	186.8	197.9	393.6	203.2	168.3	602.3	
height (mm)	1350	1350	1350	1350	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	
us inv (m AD)	190.205	189.776	189.353	189.008	186.850	186.420	185.720	-	184.960	-	183.820	182.700	181.570	-	176.410	175.260	174.610	173.000	171.622	170.911	169.198	
ds inv (m AD)	189.776	189.353	189.008	188.728	186.420	185.720	185.290	-	184.300	-	182.700	181.570	181.030	-	175.260	174.610	174.000	171.622	170.911	170.322	167.090	
grad (m/m)	0.00195	0.00205	0.00200	0.00200	0.00295	0.00300	0.00302	-	0.00297	-	0.00377	0.00325	0.00356	-	0.00350	0.00348	0.00308	0.00350	0.00350	0.00350	0.00350	
r.pfc (m3/s)	2.360	2.415	2.390	2.385	3.838	3.875	3.888	3.875	3.854	4.197	4.341	4.028	4.216	4.167	4.185	4.171	3.925	4.183	4.182	4.183	4.183	
surc	0.66	0.66	0.65	0.63	0.79	0.79	0.78	0.77	0.76	0.71	0.74	0.73	0.70	0.73	0.73	0.74	0.73	0.87	0.82	0.78	0.83	
US flow (m3/s)	1.84996	1.84992	1.84990	1.84988	3.57287	3.57286	3.57284	-	3.57278	-	3.57276	3.57274	3.57272	-	3.57271	3.57270	3.57269	4.12092	4.11847	4.11831	4.11827	
DS depth (m)	0.889	0.887	0.853	0.723	1.179	1.179	1.175	1.155	1.088	1.072	1.109	1.066	0.986	1.089	1.095	1.112	0.986	1.253	1.194	1.060	1.060	
DS flow (m3/s)	1.84992	1.84990	1.84988	1.84988	3.57287	3.57284	3.57281	-	3.57276	-	3.57274	3.57272	3.57272	-	3.57270	3.57269	3.57268	4.11847	4.11831	4.11828	4.11770	
DS velocity (m/s)	1.850	1.855	1.942	2.371	2.445	2.439	2.437	2.461	2.607	2.657	2.550	2.662	2.899	2.601	2.585	2.543	2.900	2.642	2.730	3.084	3.083	
Node	-	-	-	-	-	-	-	-	-	-	XXXX000013	XXXX000014	-	-	XXXX000017	-	XXXX000011	XXXX000018	-	XXXX000020!	XXXX000021	
ground (m AD)	-	203.000	199.000	-	-	191.800	194.800	-	192.850	189.100	188.550	191.500	186.000	-	187.900	183.500	180.600	178.600	180.900	178.950	176.000	170.800
expr:Freeboard	-	12.335358	8.760269	-	-	4.202832	7.902341	-	-	-	3.659695	7.692230	3.365799	-	10.402853	7.146835	4.879526	4.273935	8.026862	6.847217	5.535553	2.899686

CAA Lands Alternative - Existing North Trunk - Surcharge - 5-year SCS Storm



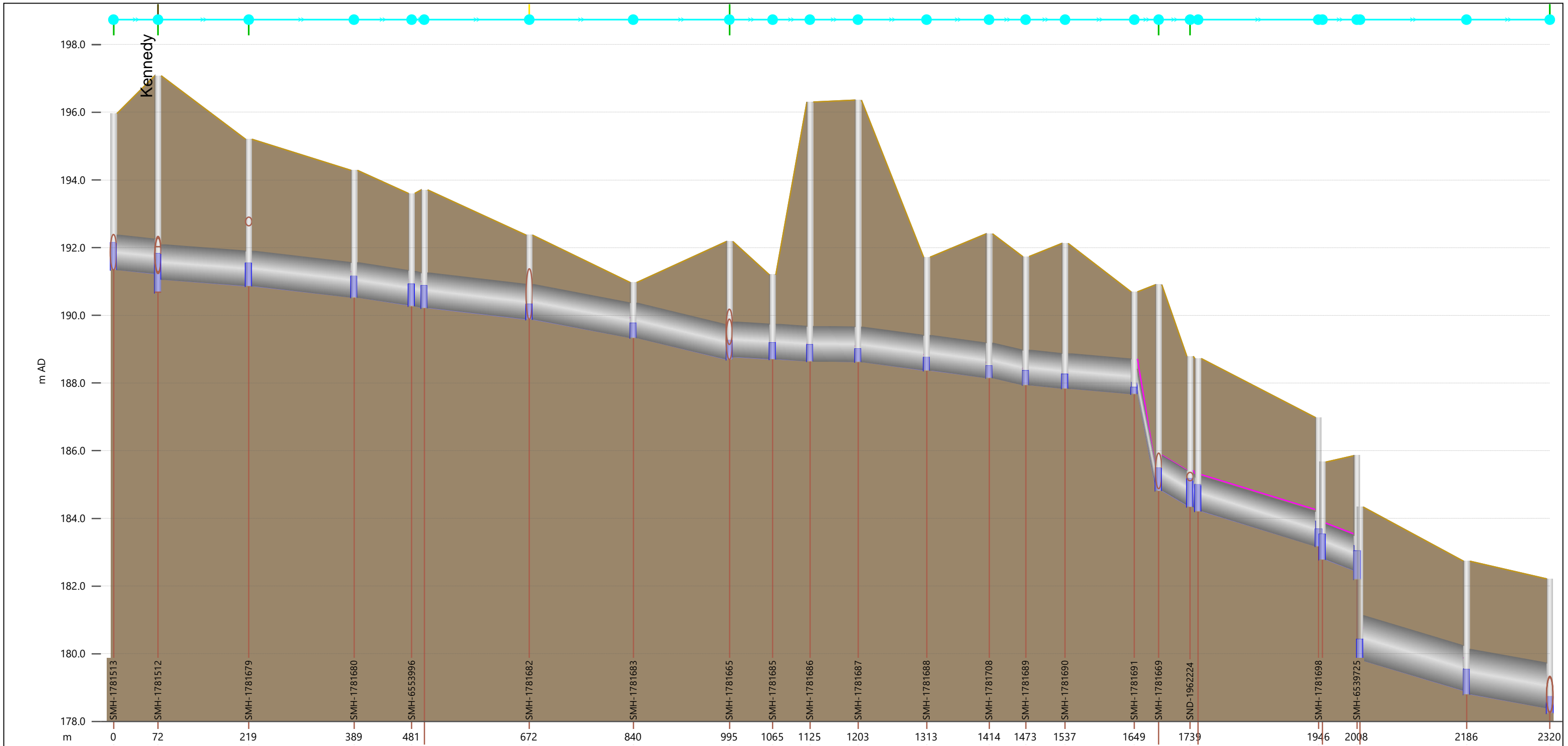
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length (m)	70.4	47.2	69.8	82.5	96.0	78.7	90.9	92.6	78.2	152.4	76.3	124.8	138.5	116.2	167.0	50.7	194.6	55.5	172.3	134.3			
height (mm)	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1200	1200	1200	1050	1050	1050	1050	1350	1350			
us inv (m AD)	191.469	191.088	190.572	190.030	189.923	189.652	189.490	189.457	189.400	189.332	189.198	188.686	188.085	187.379	186.863	184.206	183.167	179.788	178.799				
ds inv (m AD)	191.274	190.572	190.030	189.923	189.703	189.490	189.457	189.332	189.198	188.686	188.085	187.381	186.864	186.104	183.167	178.899	178.383						
grad (m/m)	0.00277	0.00739	0.00657	0.00111	0.00280	0.00178	0.00036	0.00087	0.00088	0.00088	0.00482	0.00508	0.00443	0.00455	0.00534								
r.pfc (m3/s)	1.437	1.124	2.348	2.213	0.912	1.444	1.153	0.516	0.805	0.810	0.809	2.706	2.780	2.596	1.841	1.995	2.084	3.834	2.972				
surc	0.74	0.53	0.43	0.65	0.64	0.73	0.86	0.85	0.85	0.80	0.68	0.47	0.49	0.52	0.59	0.71	0.70	3.834	0.47	0.54			
US flow (m3/s)	1.46185	0.75932	0.75932	0.75932	0.75939	0.75965	0.76016	0.76073	0.98266	0.98262	0.98258	1.20746	1.20742	1.20737	1.20732	1.70966	1.71220	1.71212					
DS depth (m)	0.690	0.490	0.452	0.678	0.630	0.765	0.900	0.858	0.851	0.716	0.560	0.569	0.584	0.623	0.619	0.798	0.747	0.735	0.640	0.695			
DS flow (m3/s)	1.46185	0.75932	0.75939	0.75964	0.76004	0.76071	0.76134	0.98262	0.98258	0.98258	1.20742	1.20737	1.20733	1.20726	1.70964	1.71212	1.71205						
DS velocity (m/s)	2.425	1.915	2.130	1.285	1.444	1.198	1.001	1.411	1.308	1.562	2.090	2.288	2.209	2.036	2.275	2.671	2.562	2.306					
Node	-	-	-	-	-	-	-	-	-	-	-	SMH-1781666	SMH-1781667	SMH-1781668	-	-	-	-	-	-	-	SMH-6539726	-
ground (m AD)	-	-	-	195.392	194.480	194.373	193.060	191.922	191.788	192.186	196.785	197.679	195.313	190.851	188.726	186.977	184.338	182.739	182.739	-			
expr:Freeboard	-	-	-	-	3.771779	3.819960	-	2.669848	-	1.739780	1.874655	2.930034	8.140209	9.713805	7.826092	5.108538	3.735369	3.293696	3.909747	3.202425	-		

CAA Lands Alternative - Existing North Trunk - Surcharge - 5-year SCS Storm



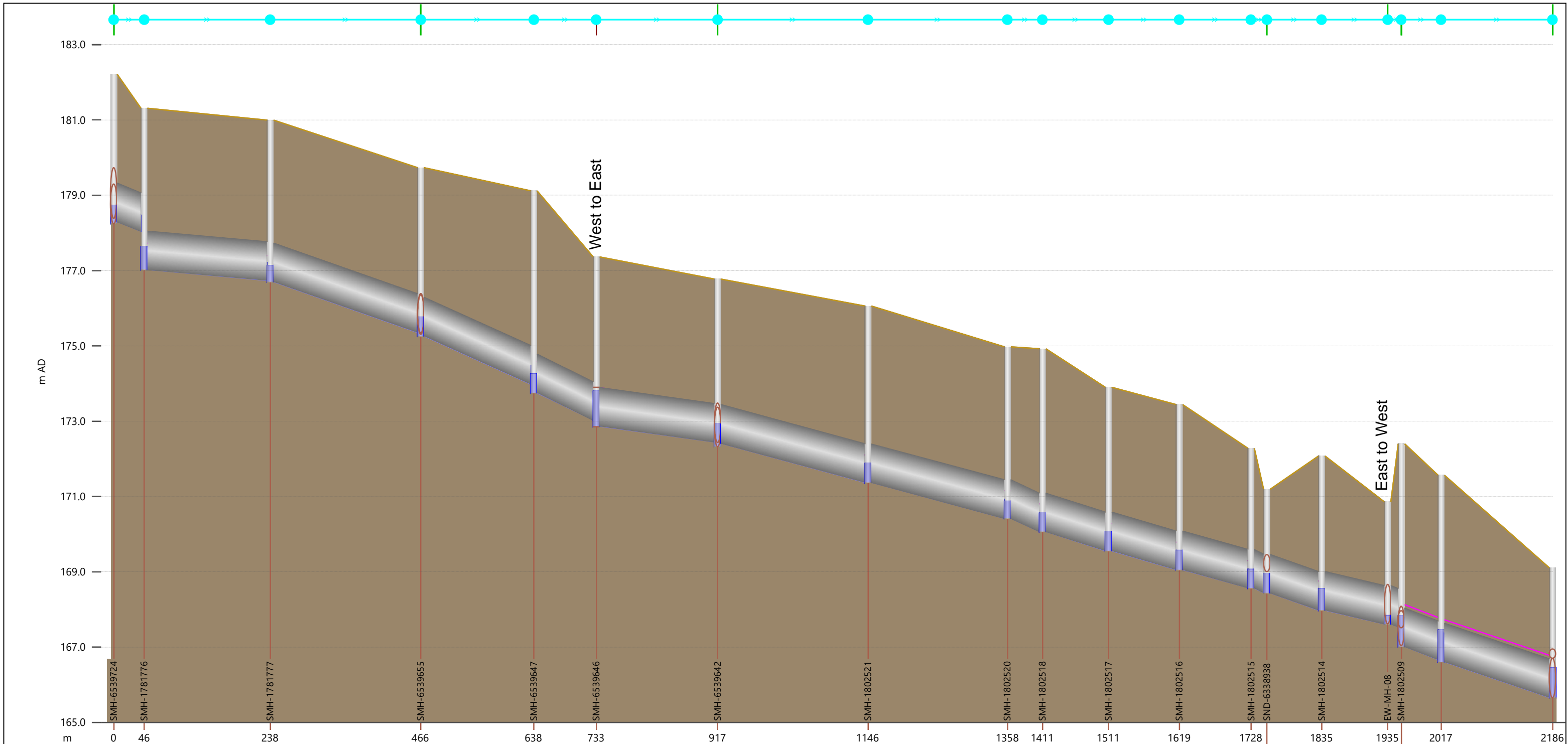
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length (m)	145.6	129.1	200.7	166.5	266.0	218.4	188.2	79.7	110.8	108.1	117.4	100.2	103.7	70.1	114.0	-	-		
height (mm)	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050		
us inv (m AD)	178.240	177.150	176.280	175.180	174.169	172.315	171.140	169.780	169.339	168.650	168.100	167.291	166.620	166.019	165.600	-	-		
ds inv (m AD)	177.250	176.340	175.302	174.169	172.550	171.280	169.880	169.449	168.750	168.220	167.440	166.780	166.101	165.650	164.880	-	-		
grad (m/m)	0.00680	0.00628	0.00487	0.00607	0.00609	0.00474	0.00670	0.00415	0.00531	0.00398	0.00562	0.00510	0.00501	0.00527	0.00632	-	-		
r.pfc (m3/s)	2.252	2.164	1.907	2.128	2.131	1.880	2.235	1.760	1.991	1.722	2.048	1.950	1.933	1.982	2.171	-	-		
surc	0.46	0.48	0.51	0.37	0.39	0.56	0.50	0.58	0.54	0.58	0.53	0.55	0.55	0.38	0.36	-	-		
US flow (m3/s)	0.97051	0.97049	0.97046	0.61683	0.61681	1.12302	1.12299	1.12298	1.12297	1.12294	1.12293	1.12289	1.12288	0.60453	0.60453	-	-		
DS depth (m)	0.485	0.499	0.531	0.388	0.409	0.591	0.528	0.602	0.570	0.602	0.557	0.579	0.582	0.399	0.380	-	-		
DS flow (m3/s)	0.97049	0.97046	0.97045	0.61681	0.61677	1.12299	1.12298	1.12297	1.12294	1.12293	1.12290	1.12288	1.12286	0.60453	0.60452	-	-		
DS velocity (m/s)	2.482	2.391	2.210	2.118	1.976	2.236	2.576	2.187	2.341	2.187	2.408	2.293	2.278	1.999	2.135	-	-		
Node	-	SMH-6539658	SMH-6539657	-	-	SMH-6482160	SMH-1802522	-	SMH-6539633	SMH-6539632	-	-	-	-	-	-	-	-	
ground (m AD)	182.210	180.610	180.490	179.731	179.140	178.069	178.160	176.775	176.570	175.180	174.579	173.820	173.040	171.631	171.390	-	-	170.940	-
expr:Freeboard	-	2.960525	3.675989	3.969464	3.571778	3.511642	5.201061	3.855200	4.898186	4.786491	4.649389	4.543343	4.375220	3.752826	4.177247	-	-	4.958555	-

CAA Lands Alternative - Existing South Trunk - Surcharge - 5-year SCS Storm



Link	-	SMH-1781512.1	SMH-1781679.1	-	-	SMH-1781681.1	SMH-1781682.1	SMH-1781683.1	-	-	-	-	-	-	-	-	-	-	SMH-1781671.1	-	SMH-6539727.1	SMH-6539726.1			
length (m)	71.9	146.6	170.0	93.0	-	169.6	168.1	155.3	69.8	60.1	77.9	110.6	101.0	59.0	63.5	112.0	39.3	50.7	194.6	55.5	172.3	134.3			
height (mm)	1050	1050	1050	1050	-	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	750	1050	1050	1050	1350	1350			
us inv (m AD)	191.335	191.050	190.859	190.520	-	190.213	189.874	189.329	188.765	-	188.634	188.619	188.366	-	-	187.832	-	-	184.206	-	179.788	178.799			
ds inv (m AD)	191.216	190.859	190.520	190.288	-	189.874	189.329	188.686	188.697	-	188.619	188.366	188.143	-	-	187.667	-	-	183.167	-	178.899	178.383			
grad (m/m)	0.00166	0.00130	0.00199	0.00250	-	0.00200	0.00324	0.00414	0.00097	-	0.00019	0.00229	0.00221	-	-	0.00147	-	-	0.00534	-	0.00516	0.00310			
r.pfc (m3/s)	1.111	0.986	1.220	1.364	-	1.221	1.555	1.757	0.852	0.884	0.379	1.306	1.283	1.629	1.089	1.048	-	2.544	1.995	2.084	3.834	2.972			
surc	0.74	0.71	0.64	0.60	-	0.62	0.43	0.54	0.47	0.47	0.47	0.37	0.37	0.41	0.41	0.40	0.83	0.76	0.71	0.70	0.47	0.54			
US flow (m3/s)	1.28647	0.89434	0.89618	0.89614	-	0.89612	0.60227	0.60223	0.37727	-	0.37715	0.37712	0.37709	-	-	0.37699	-	-	1.70966	-	1.71220	1.71212			
DS depth (m)	0.645	0.679	0.627	0.631	-	0.535	0.436	0.570	0.489	0.492	0.388	0.388	0.362	0.429	0.422	0.342	-	0.798	0.747	0.735	0.640	0.695			
DS flow (m3/s)	1.28646	0.89431	0.89614	0.89612	-	0.89611	0.60224	0.60219	0.37719	-	0.37712	0.37709	0.37706	-	-	0.37696	-	-	1.70964	-	1.71212	1.71205			
DS velocity (m/s)	2.305	1.511	1.664	1.654	-	2.023	1.774	1.253	0.956	0.947	1.299	1.297	1.425	1.134	1.157	1.542	-	2.712	2.594	2.671	2.562	2.306			
Node	-	-	SMH-1781679	SMH-1781680	-	-	SMH-1781682	SMH-1781683	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
ground (m AD)	-	197.079	195.199	194.280	-	193.703	192.374	190.969	192.186	-	-	196.359	191.716	192.413	-	192.124	-	-	188.726	186.977	-	-	184.338	182.739	-
expr:Freeboard	-	5.261480	3.662348	3.133638	-	2.832349	2.045341	1.206091	2.930034	-	-	7.352515	2.961926	-	-	3.869605	-	-	3.735369	3.293696	-	-	3.909747	3.202425	-

CAA Lands Alternative - Existing South Trunk - Surcharge - 5-year SCS Storm



Link	-	SMH-1781776.1	SMH-1781777.1	SMH-6539655.2	-	SMH-6539646.1	SMH-6539642.1	SMH-1802521.1	-	-	-	-	-	-	-	SMH-1799128.1		
length (m)	46.3	191.4	228.6	171.9	94.9	184.4	228.4	211.9	53.2	100.3	107.5	109.0	-	83.4	100.3	60.6	169.3	
height (mm)	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	-	1050	1050	1050	1050	
us inv (m AD)	-	177.010	176.693	175.250	173.740	172.854	172.400	171.358	-	170.053	169.544	169.044	-	168.425	167.969	-	166.595	
ds inv (m AD)	-	176.726	175.344	173.970	173.010	172.430	171.360	170.404	-	169.544	169.044	168.559	-	167.969	167.597	-	165.649	
grad (m/m)	-	0.00148	0.00590	0.00745	0.00769	0.00230	0.00455	0.00450	-	0.00507	0.00465	0.00445	-	0.00547	0.00371	-	0.00559	
r.pfc (m3/s)	2.038	1.052	2.098	2.357	2.396	1.310	1.843	1.833	2.218	1.945	1.863	1.822	-	2.019	1.663	-	2.042	
surc	0.42	0.60	0.42	0.49	0.75	0.83	0.49	0.50	0.48	0.49	0.50	0.50	-	0.56	0.55	-	0.77	
US flow (m3/s)	-	0.74153	0.74143	1.09503	1.09500	1.39484	0.88849	0.88845	-	0.88841	0.88839	0.88837	-	0.97412	0.97408	-	1.80937	
DS depth (m)	0.443	0.484	0.437	0.510	0.788	0.673	0.519	0.520	0.507	0.518	0.522	0.522	-	0.589	0.559	-	0.808	
DS flow (m3/s)	-	0.74143	0.74141	1.09501	1.09484	1.39474	0.88846	0.88843	-	0.88839	0.88837	0.88836	-	0.97408	0.97406	-	1.80923	
DS velocity (m/s)	2.134	1.900	2.172	2.625	1.594	2.379	2.082	2.075	2.145	2.090	2.066	2.069	-	1.957	2.079	-	2.567	
Node	-	SMH-1781777	SMH-6539655	SMH-6539647	SMH-6539646	SMH-6539642	SMH-1802521	SMH-1802520	-	-	-	-	-	-	-	-	-	-
ground (m AD)	181.310	180.993	179.731	179.120	177.364	176.775	176.058	174.974	174.923	173.904	173.444	-	-	172.079	-	171.565	169.104	
expr:Freeboard	3.671359	3.862247	3.969464	4.858617	3.566774	3.855200	4.179399	4.099870	-	3.842507	3.877823	-	-	3.521978	-	4.112256	2.648708	

**CAA Lands Alternative - Proposed Trunk
Surcharge - 5-year SCS Storm**

Location	US node ID	US invert level (m AD)	DS invert level (m AD)	Max Surcharge state
Kennedy	XXXX000011A	190.205	189.776	0.66
	XXXX000007A	189.776	189.353	0.66
	XXXX000008A	189.353	189.008	0.65
	XXXX000009A	189.008	188.728	0.63
	XXXX000010A	187.06	187	0.77
Biscayne	XXXX000002	186.85	186.42	0.79
	XXXX000007	186.42	185.72	0.79
	XXXX000008	185.72	185.29	0.78
	XXXX000009	185.29	184.96	0.77
	XXXX000005	184.96	184.3	0.76
	XXXX000006	184.3	183.82	0.71
	XXXX000012	183.82	182.7	0.74
	XXXX000013	182.7	181.57	0.73
WestCr_407	XXXX000014	181.57	181.03	0.7
	XXXX000015	176.82	176.41	0.73
	XXXX000016	176.41	175.26	0.73
	XXXX000017	175.26	174.61	0.74
	XXXX000010	174.61	174	0.73
WestEast	XXXX000011	173	171.622	0.87
	XXXX000018	171.622	170.911	0.82
	XXXX000019	170.911	170.322	0.78
	XXXX000020!	169.198	167.09	0.83

**CAA Lands Alternative - Proposed Trunk
Freeboard - 25-year SCS Storm**

Location	Node ID	US invert level (m AD)	expr:Freeboard
Kennedy	XXXX000011A	190.205	14.892609
	XXXX000007A	189.776	12.334702
	XXXX000008A	189.353	8.75972
	XXXX000009A	189.008	9.139221
	XXXX000010A	187.06	2.71423
Biscayne	XXXX000002	186.85	3.96463
	XXXX000007	186.42	4.202344
	XXXX000008	185.72	7.901791
	XXXX000009	185.29	6.335828
	XXXX000005	184.96	6.735483
	XXXX000006	184.3	3.713617
	XXXX000012	183.82	3.659283
	XXXX000013	182.7	7.691696
WestCr_407	XXXX000014	181.57	3.365234
	XXXX000015	176.82	8.987341
	XXXX000016	176.41	10.402563
	XXXX000017	175.26	7.146393
	XXXX000010	174.61	4.879037
WestEast	XXXX000011	173	4.150613
	XXXX000018	171.622	7.956305
	XXXX000019	170.911	6.819217
EastWest	XXXX000020!	169.198	5.431824
	XXXX000021	167.09	2.832959

**CAA Lands Alternative - Existing North Trunk
Surcharge - 5-year SCS Storm**

Location	US node ID	US invert level (m AD)	Max Surcharge state
Kennedy	SMH-1781606	191.469	0.74
	SMH-1781512	191.229	0.55
	SMH-1781608	191.185	0.54
	SND-6337990	191.168	0.53
	SMH-1781678	191.088	0.43
	SMH-1781677	190.572	0.65
	SMH-1781676	190.03	0.64
	SMH-1781675	189.923	0.73
	SMH-6553995	189.69	0.77
	SMH-1781674	189.652	0.86
Biscayne	SMH-1781673	189.49	0.85
	SMH-1781672	189.457	0.86
	SMH-1781662	189.4	0.85
	SMH-1781663	189.332	0.8
	SMH-1781664	189.198	0.68
	SMH-1781665	188.686	0.47
	SMH-1781666	188.085	0.49
	SMH-1781667	187.379	0.52
	SMH-1781668	186.863	0.59
	SMH-1781670	185.221	0.58
SMH-1781669	184.815	0.76	
SND-1962224	184.337	0.74	
SMH-1781671	184.206	0.71	

**CAA Lands Alternative - Existing North Trunk
Surcharge - 5-year SCS Storm**

Location	US node ID	US invert level (m AD)	Max Surcharge state
	SMH-1781698	183.167	0.49
	SMH-1781699	182.777	0.7
	SMH-6539725	182.194	0.66
	SMH-6539727	179.788	0.47
	SMH-6539726	178.799	0.54
WestCr_407	SMH-6539724	178.24	0.46
	SMH-6539658	177.15	0.48
	SMH-6539657	176.28	0.51
	SMH-6539655	175.337	0.4
	SMH-1781778	175.18	0.37
WestEast	SMH-6482160	174.169	0.39
	SMH-1802522	172.52	0.47
	SMH-6539642	172.315	0.56
	SMH-6539633	171.14	0.5
	SMH-6539632	169.78	0.58
	SMH-6539631	169.339	0.54
	SMH-6539630	168.65	0.58
	SMH-6539629	168.1	0.53
	SMH-6539628	167.291	0.55
	SMH-6539627	166.62	0.55
EastWest	EW-MH-07	166.101	0.39
	SMH-6539626	166.019	0.38
	SMH-6539625	165.6	0.36

**CAA Lands Alternative - Existing North Trunk
Surcharge - 5-year SCS Storm**

Location	US node ID	US invert level (m AD)	Max Surcharge state
	SMH-6539624	164.83	0.38
	SMH-6539623	164.14	0.37
	SND-6514264	162.812	0.42
	SMH-6525965	162.75	0.39
	SMH-6525945	161.52	0.36

**CAA Lands Alternative - Existing North Trunk
Freeboard - 25-year SCS Storm**

Location	US Node ID	US invert level (m AD)	expr:Freeboard
Kennedy	SMH-1781606	191.469	3.571365
	SMH-1781512	191.229	5.126653
	SMH-1781608	191.185	4.714562
	SND-6337990	191.168	9.953103
	SMH-1781678	191.088	3.874128
	SMH-1781677	190.572	4.176897
	SMH-1781676	190.03	3.451832
	SMH-1781675	189.923	3.493071
	SMH-6553995	189.69	3.012628
	SMH-1781674	189.652	3.300224
Biscayne	SMH-1781673	189.49	2.452395
	SMH-1781672	189.457	2.00973
	SMH-1781662	189.4	1.949454
	SMH-1781663	189.332	1.6272
	SMH-1781664	189.198	1.814276
	SMH-1781665	188.686	2.821559
	SMH-1781666	188.085	8.05003
	SMH-1781667	187.379	9.614867
	SMH-1781668	186.863	7.69685
	SMH-1781670	185.221	4.249331
SMH-1781669	184.815	4.459733	
SND-1962224	184.337	2.719525	
SMH-1781671	184.206	3.119066	

**CAA Lands Alternative - Existing North Trunk
Freeboard - 25-year SCS Storm**

Location	US Node ID	US invert level (m AD)	expr:Freeboard
	SMH-1781698	183.167	2.767314
	SMH-1781699	182.777	1.542015
	SMH-6539725	182.194	2.188991
	SMH-6539727	179.788	3.802752
	SMH-6539726	178.799	3.071413
WestCr_407	SMH-6539724	178.24	3.402581
	SMH-6539658	177.15	2.89775
	SMH-6539657	176.28	3.58108
	SMH-6539655	175.337	3.88281
	SMH-1781778	175.18	3.495164
WestEast	SMH-6482160	174.169	3.435013
	SMH-1802522	172.52	5.106747
	SMH-6539642	172.315	3.761649
	SMH-6539633	171.14	4.794274
	SMH-6539632	169.78	4.7042
	SMH-6539631	169.339	4.544408
	SMH-6539630	168.65	4.452187
	SMH-6539629	168.1	4.29267
	SMH-6539628	167.291	3.667377
	SMH-6539627	166.62	4.087906
EastWest	EW-MH-07	166.101	4.165298
	SMH-6539626	166.019	6.367727
	SMH-6539625	165.6	4.798444

**CAA Lands Alternative - Existing South Trunk
Surcharge - 5-year SCS Storm**

Location	US node ID	US invert level (m AD)	Max Surcharge state
Kennedy	SMH-1781513	191.335	0.74
	SMH-1781512	191.05	0.71
	SMH-1781679	190.859	0.64
	SMH-1781680	190.52	0.6
	SMH-6553996	190.264	0.63
Biscayne	SMH-1781681	190.213	0.62
	SMH-1781682	189.874	0.43
	SMH-1781683	189.329	0.54
	SMH-1781665	188.765	0.47
	SMH-1781685	188.697	0.47
	SMH-1781686	188.634	0.47
	SMH-1781687	188.619	0.37
	SMH-1781688	188.366	0.37
	SMH-1781708	188.143	0.41
	SMH-1781689	187.933	0.41
	SMH-1781690	187.832	0.4
	SMH-1781691	187.667	0.83
	SMH-1781669	184.815	0.76
	SND-1962224	184.337	0.74
	SMH-1781671	184.206	0.71
SMH-1781698	183.167	0.49	
SMH-1781699	182.777	0.7	
SMH-6539725	182.194	0.66	

**CAA Lands Alternative - Existing South Trunk
Surcharge - 5-year SCS Storm**

Location	US node ID	US invert level (m AD)	Max Surcharge state
WestCr_407	SMH-6539727	179.788	0.47
	SMH-6539726	178.799	0.54
	SMH-6539724	178.283	0.42
	SMH-1781776	177.01	0.6
	SMH-1781777	176.693	0.42
WestEast	SMH-6539655	175.25	0.49
	SMH-6539647	173.74	0.75
	SMH-6539646	172.854	0.83
	SMH-6539642	172.4	0.49
	SMH-1802521	171.358	0.5
	SMH-1802520	170.404	0.48
	SMH-1802518	170.053	0.49
	SMH-1802517	169.544	0.5
	SMH-1802516	169.044	0.5
	SMH-1802515	168.557	0.5
EastWest	SND-6338938	168.425	0.56
	SMH-1802514	167.969	0.55
	EW-MH-08	167.597	0.29
	SMH-1802509	167	0.77
	SMH-1799128	166.595	0.77
	SND-6338956	165.649	0.77
	SMH-1799262	165.211	0.77
SND-6338973	164.098	0.77	

CAA Lands Alternative - Existing South Trunk

Surcharge - 5-year SCS Storm

Location	US node ID	US invert level (m AD)	Max Surcharge state
	SND-6519692	163.918	0.75
	SND-6338981	163.761	0.8
	SMH-1799129	163.559	0.78

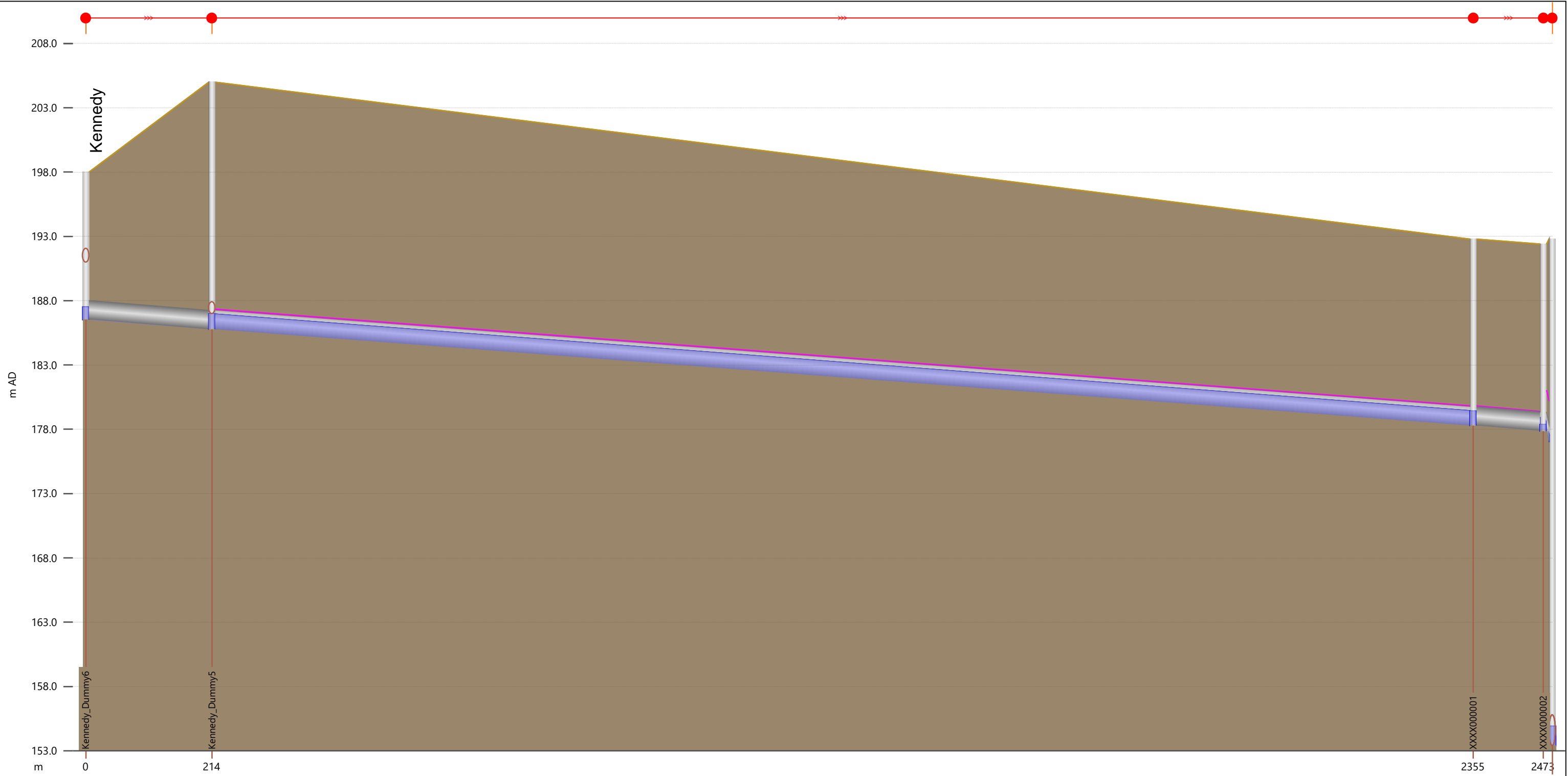
**CAA Lands Alternative - Existing South Trunk
Freeboard - 25-year SCS Storm**

Location	Node ID	US node ID	expr:Freeboard
Kennedy	SMH-1781513	191.335	3.66016
	SMH-1781512	191.05	5.126653
	SMH-1781679	190.859	3.563258
	SMH-1781680	190.52	3.034791
	SMH-6553996	190.264	2.586632
Biscayne	SMH-1781681	190.213	2.743359
	SMH-1781682	189.874	1.903861
	SMH-1781683	189.329	1.077749
	SMH-1781665	188.765	2.821559
	SMH-1781685	188.697	1.910409
	SMH-1781686	188.634	7.086227
	SMH-1781687	188.619	7.273474
	SMH-1781688	188.366	2.883664
	SMH-1781708	188.143	3.830465
	SMH-1781689	187.933	3.28462
	SMH-1781690	187.832	3.787696
	SMH-1781691	187.667	2.794905
	SMH-1781669	184.815	4.459733
	SND-1962224	184.337	2.719525
	SMH-1781671	184.206	3.119066
SMH-1781698	183.167	2.767314	
SMH-1781699	182.777	1.542015	
SMH-6539725	182.194	2.188991	

**CAA Lands Alternative - Existing South Trunk
Freeboard - 25-year SCS Storm**

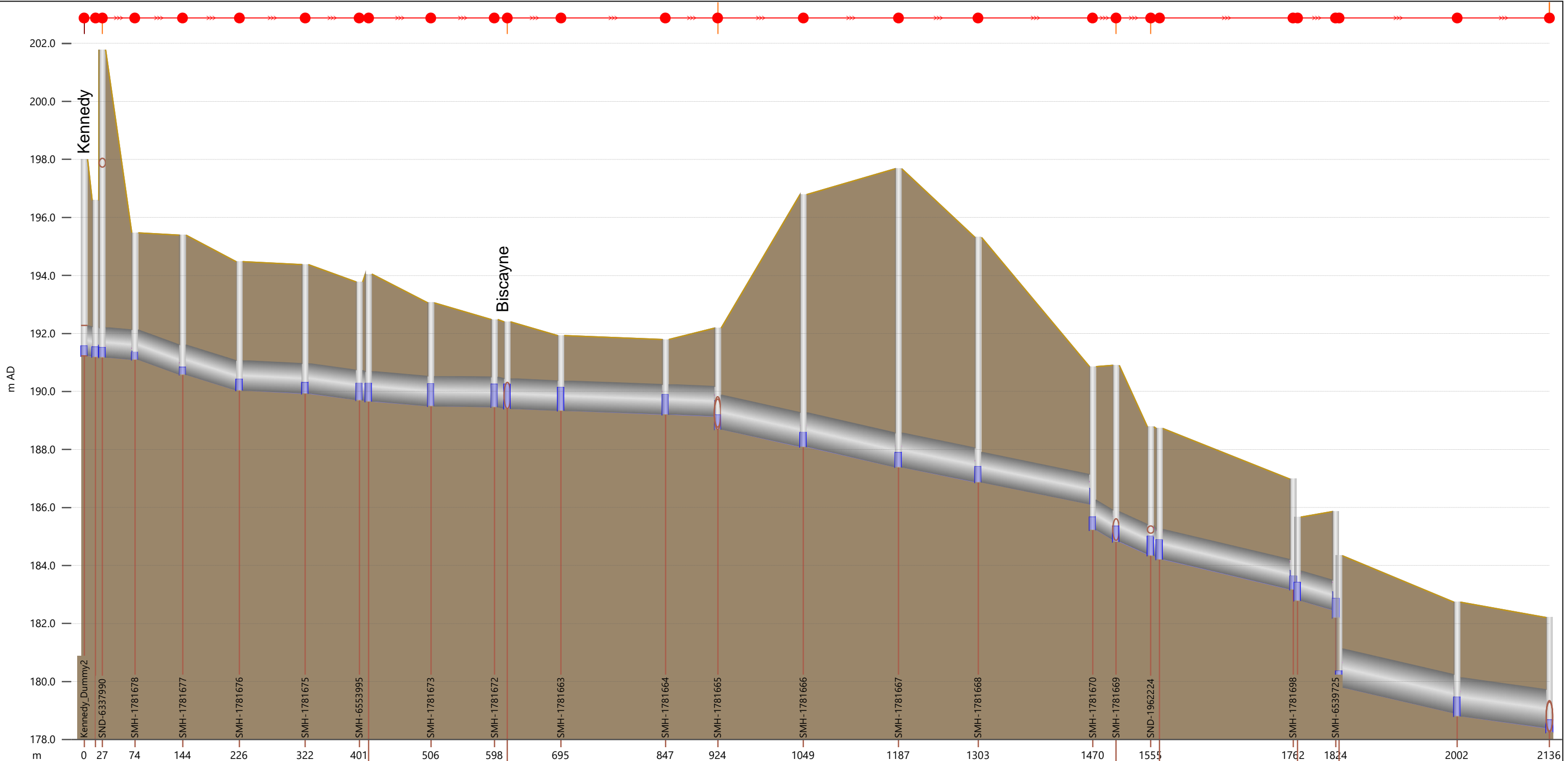
Location	Node ID	US node ID	expr:Freeboard
WestCr_407	SMH-6539727	179.788	3.802752
	SMH-6539726	178.799	3.071413
	SMH-6539724	178.283	3.402581
	SMH-1781776	177.01	3.538363
	SMH-1781777	176.693	3.783039
WestEast	SMH-6539655	175.25	3.88281
	SMH-6539647	173.74	4.690618
	SMH-6539646	172.854	3.27791
	SMH-6539642	172.4	3.761649
	SMH-1802521	171.358	4.094911
	SMH-1802520	170.404	4.016908
	SMH-1802518	170.053	4.262233
	SMH-1802517	169.544	3.749734
	SMH-1802516	169.044	3.785354
	SMH-1802515	168.557	3.111503
EastWest	SND-6338938	168.425	2.137151
	SMH-1802514	167.969	3.41184
	EW-MH-08	167.597	2.968261
	SMH-1802509	167	4.509215
	SMH-1799128	166.595	4.052717

Kennedy Road Alternative - Proposed Trunk - Surcharge - 5-year SCS Storm



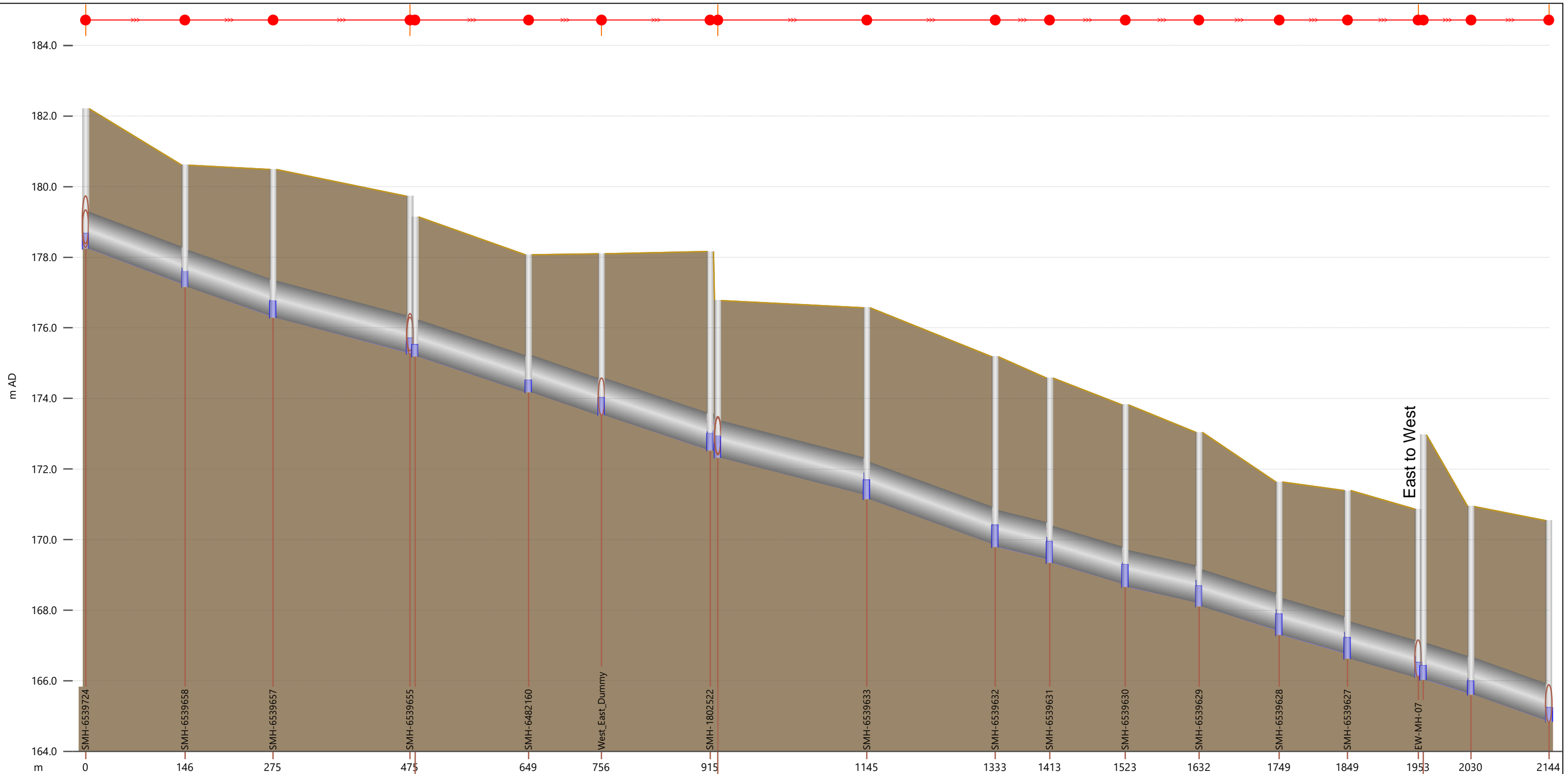
Link	Kennedy_Dummy6.3		Kennedy_Dummy5.3		-
length (m)	214.1		2140.6		118.7
height (mm)	1500		1500		1500
us inv (m AD)	186.530		185.781		178.289
ds inv (m AD)	185.781		178.289		177.873
grad (m/m)	0.00350		0.00350		0.00350
r.pfc (m3/s)	4.183		4.182		4.183
surc	0.80		0.78		0.74
US flow (m3/s)	2.87286		3.98619		3.98614
DS depth (m)	1.200		1.139		1.043
DS flow (m3/s)	2.87359		3.98614		3.98614
DS velocity (m/s)	1.898		2.769		3.039
Node	-	Kennedy_Dummy5			XXXX000001
ground (m AD)	198.000	205.000			192.800

Kennedy Road Alternative - Existing North Trunk - Surcharge - 5-year SCS Storm



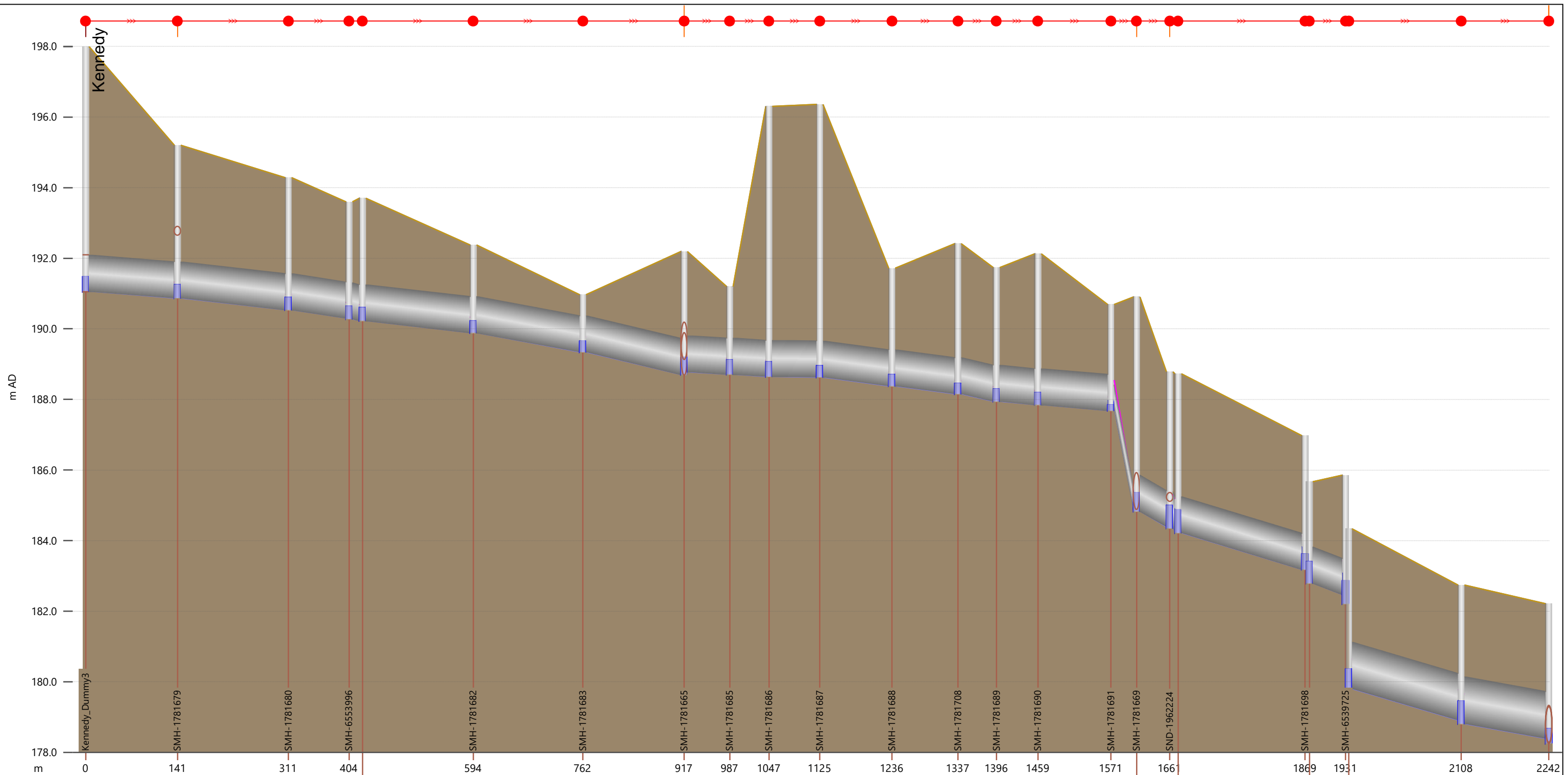
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length (m)	-	47.2	69.8	82.5	96.0	78.7	90.9	92.6	-	78.2	152.4	76.3	124.8	138.5	116.2	167.0	-	50.7	194.6	55.5	172.3	134.3
height (mm)	-	1050	1050	1050	1050	1050	1050	1050	-	1050	1050	1050	1200	1200	1200	1050	-	1050	1050	1050	1350	1350
us inv (m AD)	-	-	191.088	190.572	190.030	189.923	189.652	189.490	-	189.400	189.332	189.198	188.686	188.085	187.379	186.863	-	-	184.206	-	179.788	178.799
ds inv (m AD)	-	-	190.572	190.030	189.923	189.703	189.490	189.457	-	189.332	189.198	189.131	188.085	187.381	186.864	186.104	-	-	183.167	-	178.899	178.383
grad (m/m)	-	-	0.00739	0.00657	0.00111	0.00280	0.00178	0.00036	-	0.00087	0.00088	0.00088	0.00482	0.00508	0.00443	0.00455	-	-	0.00534	-	0.00516	0.00310
r.pfc (m3/s)	-	1.124	2.348	2.213	0.912	1.444	1.153	0.516	-	0.805	0.810	0.809	2.706	2.780	2.596	1.841	-	2.544	1.995	2.084	3.834	2.972
surc	-	0.32	0.25	0.37	0.37	0.54	0.73	0.75	-	0.80	0.76	0.65	0.42	0.43	0.45	0.52	-	0.59	0.62	0.60	0.42	0.48
US flow (m3/s)	-	-	0.28103	0.28103	0.28105	0.28121	0.28225	0.28598	-	0.90537	0.90526	0.90516	0.97222	0.97222	0.97220	0.97218	-	-	1.38447	-	1.38686	1.38684
DS depth (m)	-	0.294	0.261	0.389	0.381	0.565	0.765	0.788	-	0.804	0.684	0.537	0.504	0.512	0.541	0.541	-	0.623	0.652	0.625	0.568	0.623
DS flow (m3/s)	-	-	0.28103	0.28105	0.28120	0.28186	0.28586	0.29034	-	0.90526	0.90516	0.90515	0.97222	0.97220	0.97218	0.97216	-	-	1.38443	-	1.38684	1.38682
DS velocity (m/s)	-	1.414	1.677	0.972	1.159	0.789	0.514	0.504	-	1.273	1.514	2.032	2.158	2.113	1.963	2.159	-	2.719	2.466	2.576	2.423	2.149
Node	-	-	-	-	-	-	-	-	-	-	-	-	SMH-1781666	SMH-1781667	SMH-1781668	-	-	-	-	-	-	-
ground (m AD)	-	-	195.392	194.480	194.373	-	193.060	-	-	191.922	191.788	192.186	196.785	197.679	195.313	190.851	-	188.726	186.977	-	184.338	182.739

Kennedy Road Alternative - Existing North Trunk - Surcharge - 5-year SCS Storm



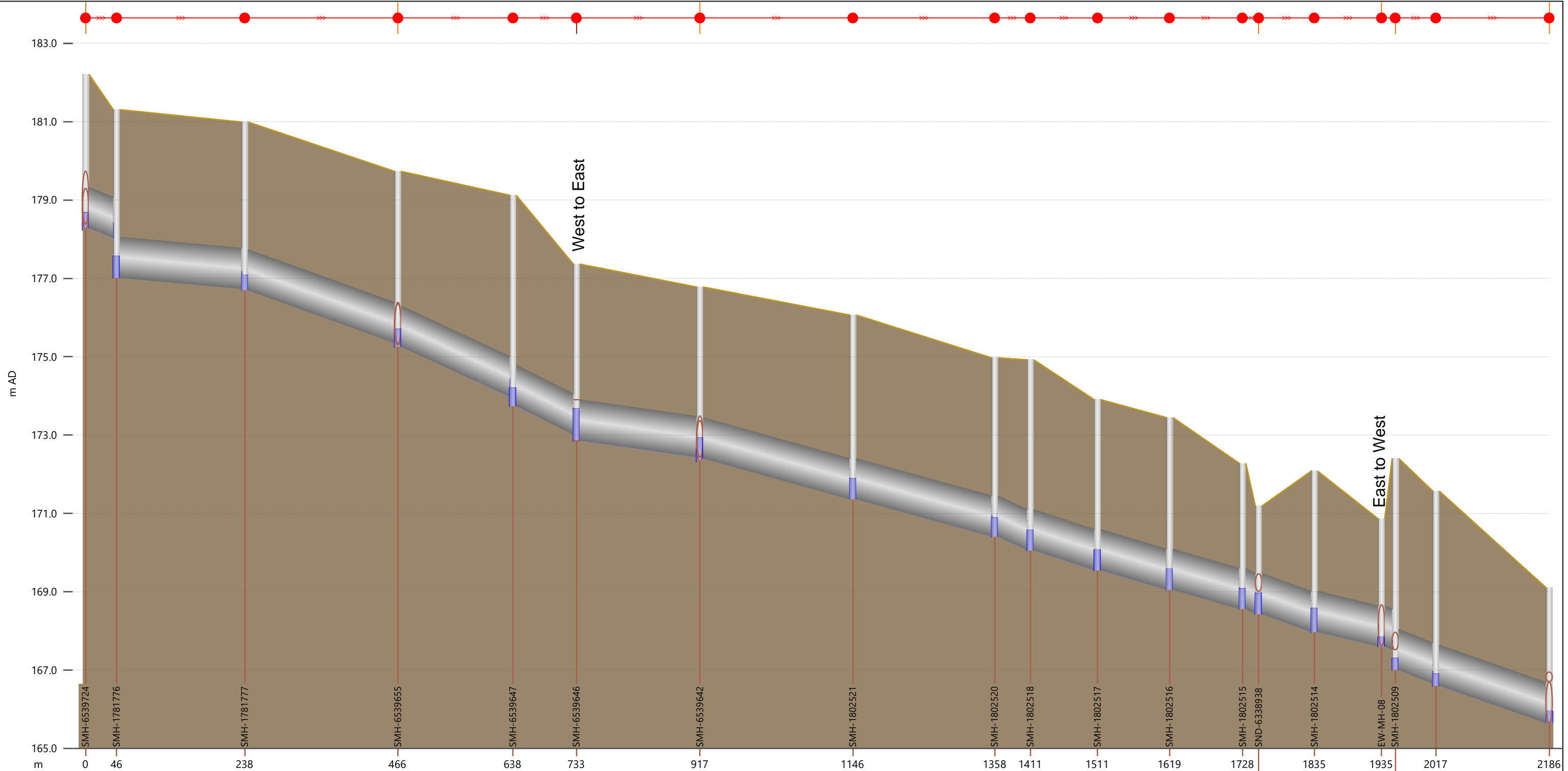
Link	SMH-6539724.2	SMH-6539658.1	SMH-6539657.1	SMH-1781778.1	-	West_East_Dummy.1	SMH-6539642.2	SMH-6539633.1	-	-	-	-	-	-	-	-	-			
length (m)	145.6	129.1	200.7	166.5	106.6	159.3	218.4	188.2	79.7	110.8	108.1	117.4	100.2	103.7	70.1	114.0				
height (mm)	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050				
us inv (m AD)	178.240	177.150	176.280	175.180	174.169	173.520	172.315	171.140	169.780	169.339	168.650	168.100	167.291	166.620	166.019	165.600				
ds inv (m AD)	177.250	176.340	175.302	174.169	173.520	172.550	171.280	169.880	169.449	168.750	168.220	167.440	166.780	166.101	165.650	164.880				
grad (m/m)	0.00680	0.00628	0.00487	0.00607	0.00609	0.00609	0.00474	0.00670	0.00415	0.00531	0.00398	0.00562	0.00510	0.00501	0.00527	0.00632				
r.pfc (m3/s)	2.252	2.164	1.907	2.128	2.131	2.131	1.880	2.235	1.760	1.991	1.722	2.048	1.950	1.933	1.982	2.171				
surc	0.41	0.42	0.45	0.33	0.48	0.48	0.57	0.51	0.59	0.56	0.60	0.54	0.56	0.56	0.39	0.37				
US flow (m3/s)	0.78417	0.78417	0.78416	0.47527	0.47524	0.95842	1.15873	1.15871	1.15869	1.15869	1.15867	1.15865	1.15863	1.15862	0.62189	0.62188				
DS depth (m)	0.434	0.443	0.469	0.344	0.501	0.500	0.599	0.536	0.612	0.583	0.612	0.572	0.590	0.592	0.407	0.386				
DS flow (m3/s)	0.78417	0.78416	0.78414	0.47524	0.47449	0.95836	1.15871	1.15869	1.15869	1.15867	1.15865	1.15863	1.15862	1.15862	0.62188	0.62188				
DS velocity (m/s)	2.320	2.262	2.093	1.926	1.929	2.356	2.269	2.608	2.213	2.347	2.213	2.408	2.314	2.302	2.006	2.157				
Node	-	SMH-6539658	SMH-6539657	-	-	SMH-6482160	-	-	SMH-6539633	SMH-6539632	-	-	-	-	-	-				
ground (m AD)	182.210	180.610	180.490	179.731	179.140	178.069	178.100	178.160	176.775	176.570	175.180	174.579	173.820	173.040	171.631	171.390	-	-	170.940	-

Kennedy Road Alternative - Existing South Trunk - Surcharge - 5-year SCS Storm



Link	-	SMH-1781679.1			-	SMH-1781681.1			SMH-1781682.1		SMH-1781683.1			-	-	-	-	SMH-1781671.1			-	SMH-6539727.1			SMH-6539726.1		
length (m)	140.7	170.0	93.0	-	169.6	168.1	155.3	69.8	60.1	77.9	110.6	101.0	59.0	63.5	112.0	39.3	50.7	194.6	55.5	172.3	134.3	-	-	-	-	-	
height (mm)	1050	1050	1050	-	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	750	1050	1050	1050	1350	1350	1350	-	-	-	-	
us inv (m AD)	191.050	190.859	190.520	-	190.213	189.874	189.329	188.765	-	188.634	188.619	188.619	188.366	-	187.832	-	-	184.206	-	179.788	178.799	178.799	-	-	-	-	
ds inv (m AD)	190.859	190.520	190.288	-	189.874	189.329	188.686	188.697	-	188.619	188.366	188.143	-	-	187.667	-	-	183.167	-	178.899	178.383	178.383	-	-	-	-	
grad (m/m)	0.00136	0.00199	0.00250	-	0.00200	0.00324	0.00414	0.00097	-	0.00019	0.00229	0.00221	-	-	0.00147	-	-	0.00534	-	0.00516	0.00310	-	-	-	-	-	
r.pfc (m3/s)	1.006	1.220	1.364	-	1.221	1.555	1.757	0.852	0.884	0.379	1.306	1.283	1.629	1.089	1.048	-	2.544	1.995	2.084	3.834	2.972	-	-	-	-	-	
surc	0.41	0.37	0.35	-	0.37	0.33	0.48	0.41	0.41	0.41	0.32	0.32	0.35	0.35	0.35	0.66	0.59	0.62	0.60	0.42	0.48	-	-	-	-	-	
US flow (m3/s)	0.35000	0.36027	0.36019	-	0.36012	0.36001	0.35994	0.28623	-	0.28617	0.28615	0.28612	-	-	0.28609	-	-	1.38447	-	1.38686	1.38684	-	-	-	-	-	
DS depth (m)	0.391	0.371	0.358	-	0.350	0.335	0.505	0.426	0.434	0.339	0.339	0.310	0.371	0.369	0.297	-	0.623	0.652	0.625	0.568	0.623	-	-	-	-	-	
DS flow (m3/s)	0.35040	0.36019	0.36014	-	0.36002	0.35994	0.35840	0.28619	-	0.28615	0.28612	0.28611	-	-	0.28608	-	-	1.38443	-	1.38684	1.38682	-	-	-	-	-	
DS velocity (m/s)	1.213	1.314	1.384	-	1.427	1.515	1.054	0.867	0.848	1.184	1.185	1.341	1.046	1.054	1.422	-	2.719	2.466	2.576	2.423	2.149	-	-	-	-	-	
Node	-	SMH-1781679			SMH-1781680			-	SMH-1781682			SMH-1781683			-	-	-	-	SMH-1781671			-	SMH-6539726			-	
ground (m AD)	-	195.199	194.280	-	193.703	192.374	190.969	192.186	-	-	196.359	191.716	192.413	-	192.124	190.692	-	188.726	186.977	-	-	-	-	-	184.338	182.739	-

Kennedy Road Alternative - Existing South Trunk - Surcharge - 5-year SCS Storm



Link	-	SMH-1781776.1	SMH-1781777.1	SMH-6539655.2	-	SMH-6539646.1	SMH-6539642.1	SMH-1802521.1	-	-	-	-	-	-	-	SMH-1799128.1
length (m)	46.3	191.4	228.6	171.9	94.9	184.4	228.4	211.9	53.2	100.3	107.5	109.0	-	83.4	100.3	169.3
height (mm)	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050
us inv (m AD)	-	177.010	176.693	175.250	173.740	172.854	172.400	171.358	-	170.053	169.544	169.044	168.559	-	167.969	166.595
ds inv (m AD)	-	176.726	175.344	173.970	173.010	172.430	171.360	170.404	-	169.544	169.044	168.559	167.969	-	167.597	165.649
grad (m/m)	-	0.00148	0.00590	0.00745	0.00769	0.00230	0.00455	0.00450	-	0.00507	0.00465	0.00445	-	0.00547	0.00371	0.00559
r.pfc (m3/s)	2.038	1.052	2.098	2.357	2.396	1.310	1.843	1.833	2.218	1.945	1.863	1.822	-	2.019	1.663	2.061
surc	0.37	0.53	0.37	0.43	0.63	0.73	0.50	0.50	0.49	0.50	0.51	0.51	-	0.57	0.57	0.29
US flow (m3/s)	-	0.60264	0.60261	0.91146	0.91146	1.21144	0.92861	0.92859	-	0.92857	0.92856	0.92855	-	1.01300	1.01298	-
DS depth (m)	0.392	0.435	0.386	0.454	0.664	0.626	0.528	0.530	0.519	0.527	0.533	0.531	-	0.604	0.570	0.300
DS flow (m3/s)	-	0.60261	0.60259	0.91146	0.91144	1.21141	0.92860	0.92858	-	0.92856	0.92855	0.92854	-	1.01298	1.01297	-
DS velocity (m/s)	2.043	1.779	2.087	2.538	1.795	2.252	2.127	2.120	2.179	2.132	2.105	2.113	-	1.966	2.108	1.757
Node	-	SMH-1781777	SMH-6539655	SMH-6539647	SMH-6539646	SMH-6539642	SMH-1802521	SMH-1802520	-	-	-	-	-	-	-	-
ground (m AD)	181.310	180.993	179.731	179.120	177.364	176.775	176.058	174.974	174.923	173.904	173.444	-	-	172.079	-	171.565

**Kennedy Road Alternative - Proposed Trunk
Surcharge - 5-year SCS Storm**

Location	US node ID	US invert level (m AD)	DS invert level (m AD)	Max Surcharge state
Kennedy	Kennedy_Dummy6	186.53	185.781	0.8
	Kennedy_Dummy5	185.781	178.289	0.78
	XXXX000001	178.289	177.873	0.74
EastWest	XXXX000002	177.85	177	0.35

**Kennedy Road Alternative - Proposed Trunk
Freeboard - 25-year SCS Storm**

Location	Node ID	US invert level (m AD)	expr:Freeboard
Kennedy	Kennedy_Dummy6	186.53	9.482452
	Kennedy_Dummy5	185.781	16.988022
	XXXX000001	178.289	13.277798
EastWest	XXXX000002	177.85	14.001074
	Kennedy_Dummy	177	37.828066

**Kennedy Road Alternative - Existing North Trunk
Surcharge - 5-year SCS Storm**

Location	US node ID	US invert level (m AD)	Max Surcharge state
Kennedy	Kennedy_Dummy2	191.229	0.32
	SMH-1781608	191.185	0.33
	SND-6337990	191.168	0.32
	SMH-1781678	191.088	0.25
	SMH-1781677	190.572	0.37
	SMH-1781676	190.03	0.37
	SMH-1781675	189.923	0.54
	SMH-6553995	189.69	0.58
	SMH-1781674	189.652	0.73
	SMH-1781673	189.49	0.75
Biscayne	SMH-1781672	189.457	0.8
	SMH-1781662	189.4	0.8
	SMH-1781663	189.332	0.76
	SMH-1781664	189.198	0.65
	SMH-1781665	188.686	0.42
	SMH-1781666	188.085	0.43
	SMH-1781667	187.379	0.45
	SMH-1781668	186.863	0.52
	SMH-1781670	185.221	0.46
	SMH-1781669	184.815	0.59
	SND-1962224	184.337	0.62
	SMH-1781671	184.206	0.62
	SMH-1781698	183.167	0.43

**Kennedy Road Alternative - Existing North Trunk
Surcharge - 5-year SCS Storm**

Location	US node ID	US invert level (m AD)	Max Surcharge state
WestCr_407	SMH-1781699	182.777	0.6
	SMH-6539725	182.194	0.58
	SMH-6539727	179.788	0.42
	SMH-6539726	178.799	0.48
	SMH-6539724	178.24	0.41
	SMH-6539658	177.15	0.42
	SMH-6539657	176.28	0.45
	SMH-6539655	175.337	0.35
WestEast	SMH-1781778	175.18	0.33
	SMH-6482160	174.169	0.48
	West_East_Dummy	173.52	0.48
	SMH-1802522	172.52	0.48
	SMH-6539642	172.315	0.57
	SMH-6539633	171.14	0.51
	SMH-6539632	169.78	0.59
	SMH-6539631	169.339	0.56
	SMH-6539630	168.65	0.6
	SMH-6539629	168.1	0.54
EastWest	SMH-6539628	167.291	0.56
	SMH-6539627	166.62	0.56
	EW-MH-07	166.101	0.56
	SMH-6539626	166.019	0.56
	SMH-6539625	165.6	0.52

**Kennedy Road Alternative - Existing North Trunk
Surcharge - 5-year SCS Storm**

Location	US node ID	US invert level (m AD)	Max Surcharge state
	SMH-6539624	164.83	0.56
	SMH-6539623	164.14	0.54
	SND-6514264	162.812	0.59
	SMH-6525965	162.75	0.56
	SMH-6525945	161.52	0.51

**Kennedy Road Alternative - Existing North Trunk
Freeboard - 25-year SCS Storm**

Location	Node ID	US invert level (m AD)	expr:Freeboard
Kennedy	Kennedy_Dummy2	191.229	6.410828
	SMH-1781608	191.185	5.030999
	SND-6337990	191.168	10.246682
	SMH-1781678	191.088	4.110517
	SMH-1781677	190.572	4.538759
	SMH-1781676	190.03	3.995976
	SMH-1781675	189.923	3.946486
	SMH-6553995	189.69	3.371012
	SMH-1781674	189.652	3.633827
	SMH-1781673	189.49	2.661761
Biscayne	SMH-1781672	189.457	2.09019
	SMH-1781662	189.4	2.015814
	SMH-1781663	189.332	1.679919
	SMH-1781664	189.198	1.839727
	SMH-1781665	188.686	2.967876
	SMH-1781666	188.085	8.175701
	SMH-1781667	187.379	9.748397
	SMH-1781668	186.863	7.857189
	SMH-1781670	185.221	5.14464
	SMH-1781669	184.815	5.492723
	SND-1962224	184.337	3.710842
	SMH-1781671	184.206	3.803637
	SMH-1781698	183.167	3.324183

**Kennedy Road Alternative - Existing North Trunk
Freeboard - 25-year SCS Storm**

Location	Node ID	US invert level (m AD)	expr:Freeboard
	SMH-1781699	182.777	2.201653
	SMH-6539725	182.194	2.899502
	SMH-6539727	179.788	3.952563
	SMH-6539726	178.799	3.251436
WestCr_407	SMH-6539724	178.24	3.509316
	SMH-6539658	177.15	2.991302
	SMH-6539657	176.28	3.698694
	SMH-6539655	175.337	4.000028
	SMH-1781778	175.18	3.590806
WestEast	SMH-6482160	174.169	3.528564
	West_East_Dummy	173.52	4.027628
	SMH-1802522	172.52	5.090664
	SMH-6539642	172.315	3.773459
	SMH-6539633	171.14	4.80616
	SMH-6539632	169.78	4.712547
	SMH-6539631	169.339	4.56661
	SMH-6539630	168.65	4.463463
	SMH-6539629	168.1	4.306373
	SMH-6539628	167.291	3.684574
	SMH-6539627	166.62	4.104081
EastWest	EW-MH-07	166.101	4.279067
	SMH-6539626	166.019	6.477865
	SMH-6539625	165.6	4.888593

**Kennedy Road Alternative - Existing South Trunk
Surcharge - 5-year SCS Storm**

Location	US node ID	US invert level (m AD)	Max Surcharge state
Kennedy	Kennedy_Dummy3	191.05	0.41
	SMH-1781679	190.859	0.37
	SMH-1781680	190.52	0.35
	SMH-6553996	190.264	0.37
	SMH-1781681	190.213	0.37
Biscayne	SMH-1781682	189.874	0.33
	SMH-1781683	189.329	0.48
	SMH-1781665	188.765	0.41
	SMH-1781685	188.697	0.41
	SMH-1781686	188.634	0.41
	SMH-1781687	188.619	0.32
	SMH-1781688	188.366	0.32
	SMH-1781708	188.143	0.35
	SMH-1781689	187.933	0.35
	SMH-1781690	187.832	0.35
	SMH-1781691	187.667	0.66
	SMH-1781669	184.815	0.59
	SND-1962224	184.337	0.62
	SMH-1781671	184.206	0.62
	SMH-1781698	183.167	0.43
	SMH-1781699	182.777	0.6
	SMH-6539725	182.194	0.58
	SMH-6539727	179.788	0.42

**Kennedy Road Alternative - Existing South Trunk
Surcharge - 5-year SCS Storm**

Location	US node ID	US invert level (m AD)	Max Surcharge state
WestCr_407	SMH-6539726	178.799	0.48
	SMH-6539724	178.283	0.37
	SMH-1781776	177.01	0.53
	SMH-1781777	176.693	0.37
WestEast	SMH-6539655	175.25	0.43
	SMH-6539647	173.74	0.63
	SMH-6539646	172.854	0.73
	SMH-6539642	172.4	0.5
	SMH-1802521	171.358	0.5
	SMH-1802520	170.404	0.49
	SMH-1802518	170.053	0.5
	SMH-1802517	169.544	0.51
	SMH-1802516	169.044	0.51
	SMH-1802515	168.557	0.51
	SND-6338938	168.425	0.58
EastWest	SMH-1802514	167.969	0.57
	EW-MH-08	167.597	0.55
	SMH-1802509	167	0.57
	SMH-1799128	166.595	0.58
	SND-6338956	165.649	0.56
	SMH-1799262	165.211	0.56
	SND-6338973	164.098	0.58
	SND-6519692	163.918	0.58
	SND-6338981	163.761	0.58
	SMH-1799129	163.559	0.57

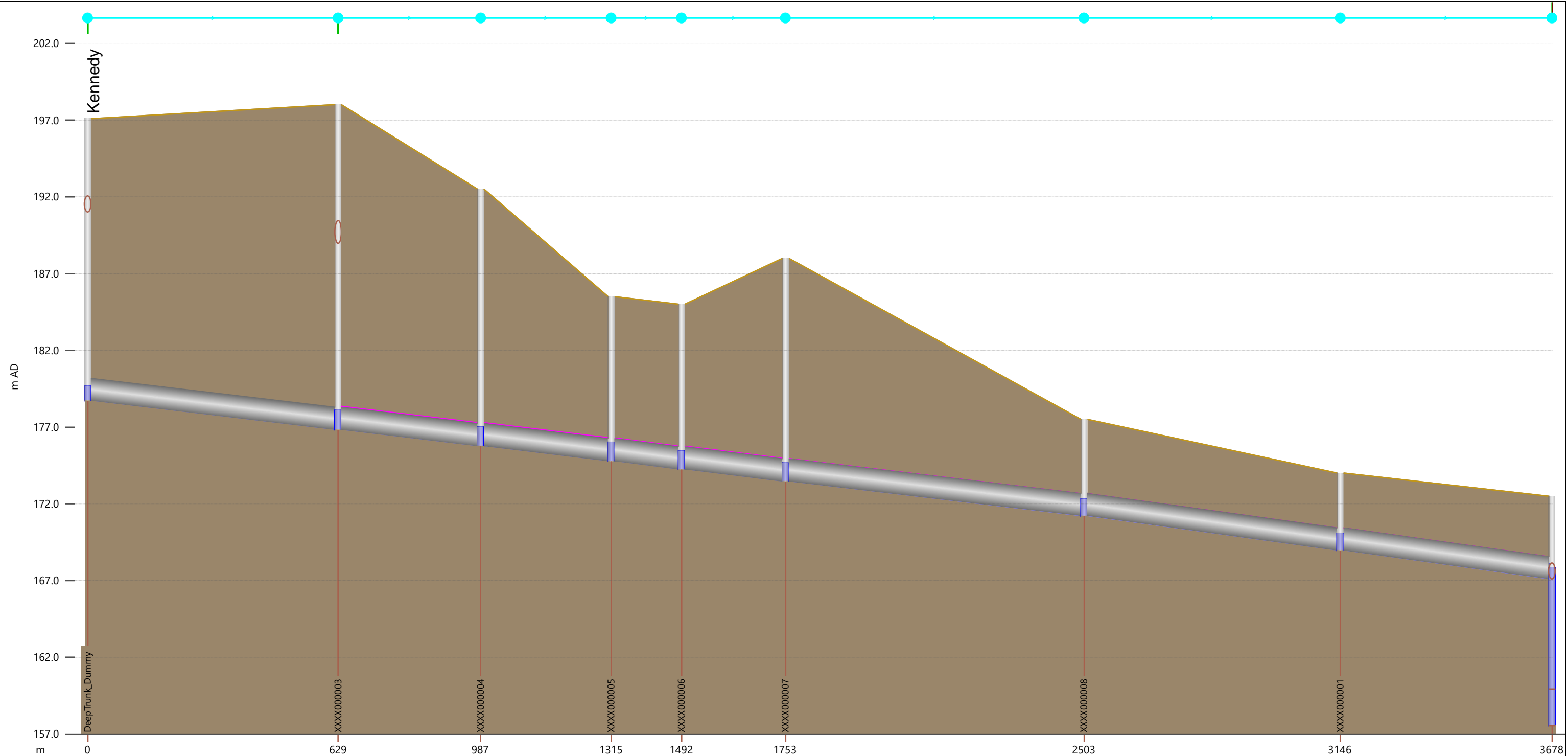
**Kennedy Road Alternative - Existing South Trunk
Freeboard - 25-year SCS Storm**

Location	Node ID	US invert level (m AD)	expr:Freeboard
Kennedy	Kennedy_Dummy3	191.05	6.522217
	SMH-1781679	190.859	3.946223
	SMH-1781680	190.52	3.386873
	SMH-6553996	190.264	2.950173
Biscayne	SMH-1781681	190.213	3.097302
	SMH-1781682	189.874	2.148216
	SMH-1781683	189.329	1.310629
	SMH-1781665	188.765	2.967876
	SMH-1781685	188.697	2.046579
	SMH-1781686	188.634	7.208938
	SMH-1781687	188.619	7.376044
	SMH-1781688	188.366	2.985821
	SMH-1781708	188.143	3.936407
	SMH-1781689	187.933	3.406416
	SMH-1781690	187.832	3.901084
	SMH-1781691	187.667	2.839705
	SMH-1781669	184.815	5.492723
	SND-1962224	184.337	3.710842
	SMH-1781671	184.206	3.803637
	SMH-1781698	183.167	3.324183
	SMH-1781699	182.777	2.201653
SMH-6539725	182.194	2.899502	
SMH-6539727	179.788	3.952563	

**Kennedy Road Alternative - Existing South Trunk
Freeboard - 25-year SCS Storm**

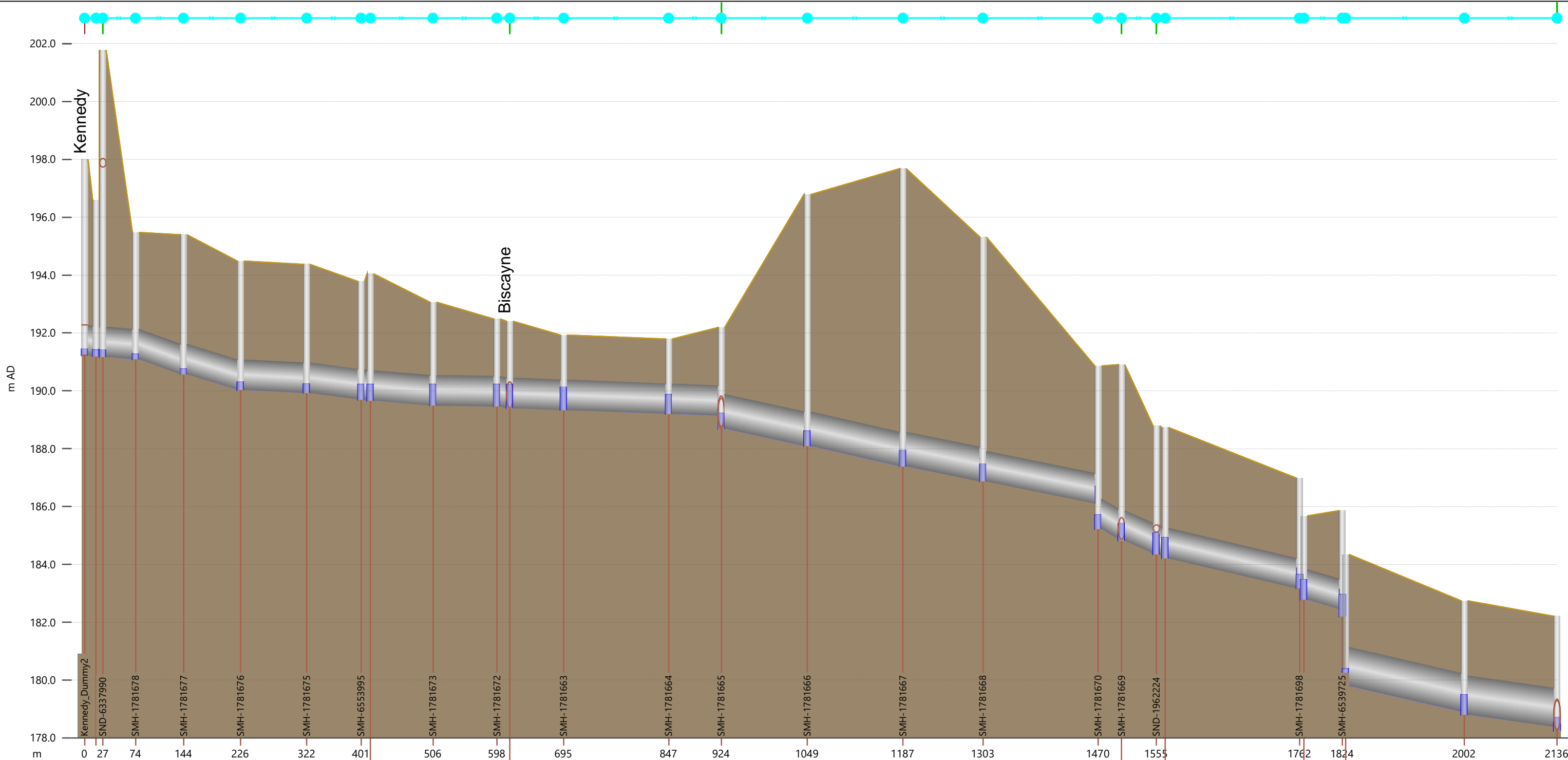
Location	Node ID	US invert level (m AD)	expr:Freeboard
WestCr_407	SMH-6539726	178.799	3.251436
	SMH-6539724	178.283	3.509316
	SMH-1781776	177.01	3.707995
	SMH-1781777	176.693	3.891117
WestEast	SMH-6539655	175.25	4.000028
	SMH-6539647	173.74	4.888814
	SMH-6539646	172.854	3.63286
	SMH-6539642	172.4	3.773459
	SMH-1802521	171.358	4.10489
	SMH-1802520	170.404	4.033555
	SMH-1802518	170.053	4.279628
	SMH-1802517	169.544	3.761727
	SMH-1802516	169.044	3.796692
	SMH-1802515	168.557	3.125373
	SND-6338938	168.425	2.151067
EastWest	SMH-1802514	167.969	3.423574
	EW-MH-08	167.597	2.999496
	SMH-1802509	167	5.063125
	SMH-1799128	166.595	4.629957

Deep Trunk Alternative - Proposed Trunk - Surcharge - 5-year SCS Storm



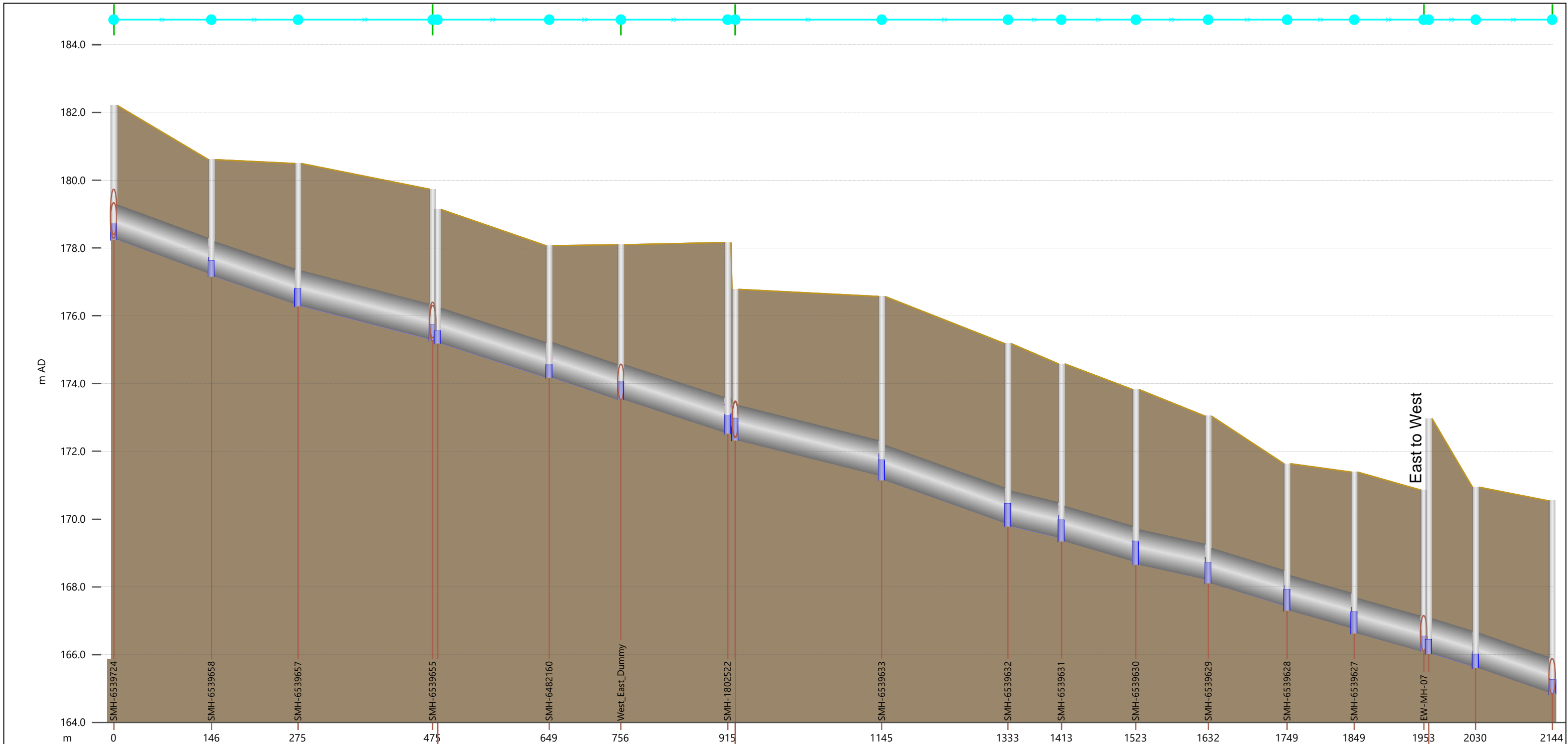
Link	DeepTrunk_Dummy.3	XXXX000003.1	XXXX000004.1	-	XXXX000006.1	XXXX000007.1	XXXX000008.1	XXXX000001.1	
length (m)	629.1	357.9	328.0	176.5	261.1	750.0	643.5	531.9	
height (mm)	1500	1500	1500	1500	1500	1500	1500	1500	
us inv (m AD)	178.710	176.820	175.750	174.770	174.240	173.450	171.200	168.950	
ds inv (m AD)	176.820	175.750	174.770	174.240	173.450	171.200	168.950	167.090	
grad (m/m)	0.00300	0.00299	0.00299	0.00300	0.00303	0.00300	0.00350	0.00350	
r.pfc (m3/s)	3.875	3.866	3.864	3.874	3.889	3.872	4.180	4.181	
surc	0.85	0.84	0.83	0.82	0.81	0.80	0.74	0.73	
US flow (m3/s)	2.84813	3.74015	3.73169	3.72895	3.72847	3.72814	3.72792	3.72780	
DS depth (m)	1.280	1.264	1.246	1.228	1.216	1.118	1.116	1.008	
DS flow (m3/s)	2.85075	3.73175	3.72896	3.72848	3.72814	3.72792	3.72780	3.72778	
DS velocity (m/s)	1.850	2.450	2.447	2.458	2.456	2.640	2.644	2.951	
Node	DeepTrunk_Dummy	XXXX000003	XXXX000004	XXXX000005	XXXX000006	XXXX000007	XXXX000008	XXXX000001	XXXX000002
ground (m AD)	197.100	198.000	192.500	185.500	185.000	188.000	177.500	174.000	172.500
expr:Freeboard	17.419504	19.901413	15.487701	9.486237	9.534088	13.335754	5.183365	3.935547	4.660721

Deep Trunk Alternative - Existing North Trunk - Surge - 5-year SCS Storm



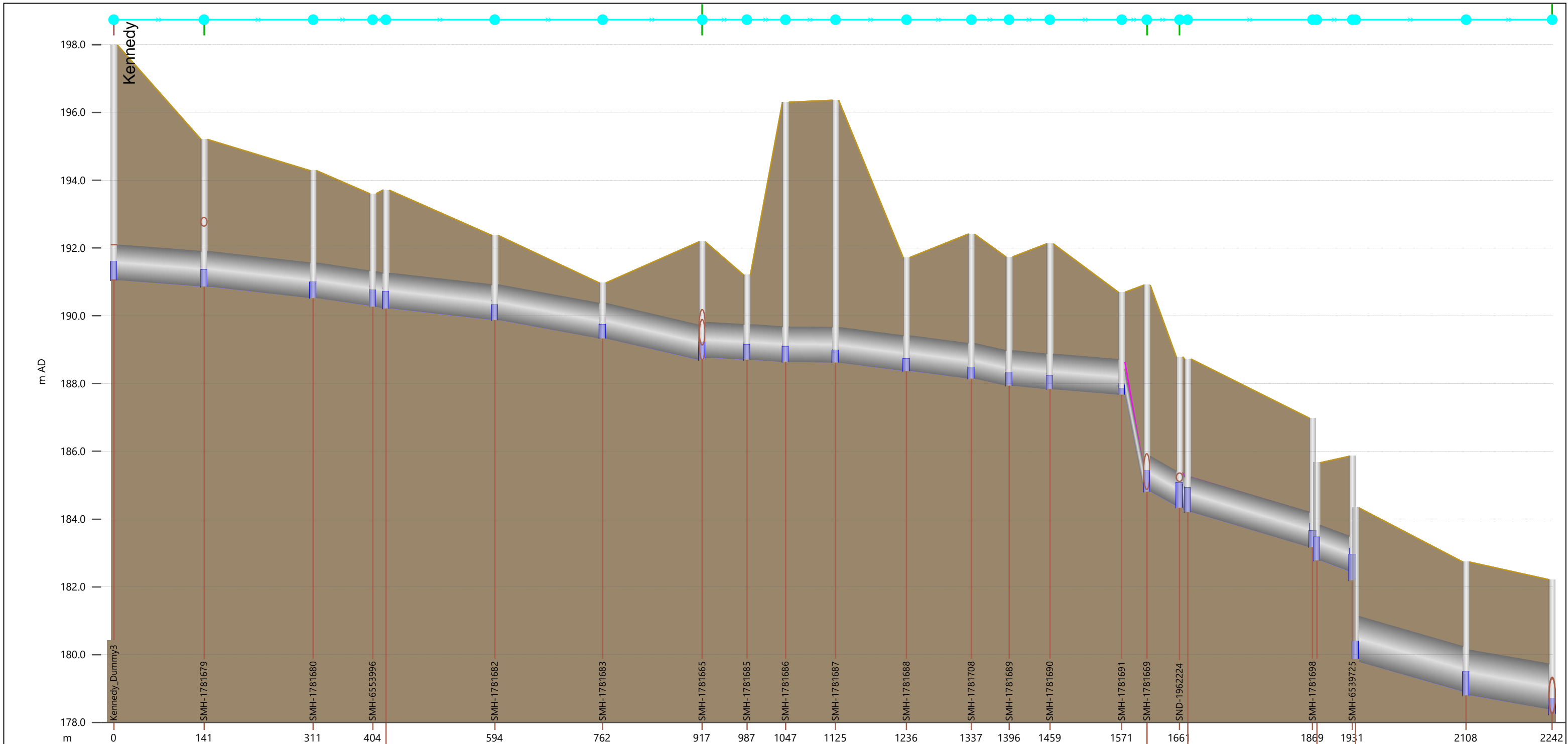
Link	-	-	-	-	-	-	-	-	-	SMH-1781663.1	-	SMH-1781665.1	SMH-1781666.1	-	SMH-1781668.1	-	-	SMH-1781671.1	-	SMH-6539727.1	SMH-6539726.1		
length (m)	-	47.2	69.8	82.5	96.0	78.7	90.9	92.6	-	152.4	76.3	124.8	138.5	116.2	167.0	-	50.7	194.6	55.5	172.3	134.3		
height (mm)	-	1050	1050	1050	1050	1050	1050	1050	-	1050	1050	1200	1200	1200	1050	-	1050	1050	1050	1350	1350		
us inv (m AD)	-	-	191.088	190.572	190.030	189.923	189.652	189.490	-	189.332	189.198	188.686	188.085	187.379	186.863	-	-	184.206	-	179.788	178.799		
ds inv (m AD)	-	-	190.572	190.030	189.923	189.703	189.490	189.457	-	189.198	189.131	188.085	187.381	186.864	186.104	-	-	183.167	-	178.899	178.383		
grad (m/m)	-	-	0.00739	0.00657	0.00111	0.00280	0.00178	0.00036	-	0.00087	0.00088	0.00482	0.00508	0.00443	0.00455	-	-	0.00534	-	0.00516	0.00310		
r.pfc (m3/s)	-	1.124	2.348	2.213	0.912	1.444	1.153	0.516	-	0.805	0.810	2.706	2.780	2.596	1.841	-	2.544	1.995	2.084	3.834	2.972		
surc	-	0.22	0.17	0.26	0.30	0.50	0.70	0.73	-	0.78	0.74	0.44	0.46	0.49	0.56	-	0.67	0.66	0.64	0.44	0.51		
US flow (m3/s)	-	-	0.12890	0.12885	0.12851	0.12649	0.12187	0.11731	-	0.87117	0.87112	1.09649	1.09649	1.09648	1.09647	-	-	1.55072	-	1.55311	1.55310		
DS depth (m)	-	0.199	0.179	0.272	0.313	0.523	0.733	0.764	-	0.783	0.671	0.532	0.551	0.593	0.590	-	0.702	0.693	0.676	0.598	0.661		
DS flow (m3/s)	-	-	0.12885	0.12855	0.12659	0.12264	0.11744	0.11612	-	0.87112	0.87107	1.09649	1.09648	1.09647	1.09647	-	-	1.55070	-	1.55310	1.55309		
DS velocity (m/s)	-	1.126	1.316	0.731	0.803	0.377	0.210	0.197	-	1.258	1.492	2.006	2.267	2.164	1.970	-	2.783	2.558	2.630	2.538	2.231		
Node	-	-	-	-	-	-	-	-	-	-	-	SMH-1781666	SMH-1781667	SMH-1781668	-	-	-	-	-	-	SMH-6539726	-	
ground (m AD)	-	-	195.392	194.480	194.373	-	193.060	-	-	191.922	191.788	192.186	196.785	197.679	195.313	190.851	-	188.726	186.977	-	184.338	182.739	-
expr:Freeboard	-	-	-	4.177922	4.136580	-	2.837252	-	-	1.807574	1.919760	2.966914	8.174847	9.747146	7.856182	5.143480	-	3.801974	3.323268	-	3.951678	3.250505	-

Deep Trunk Alternative - Existing North Trunk - Surcharge - 5-year SCS Storm



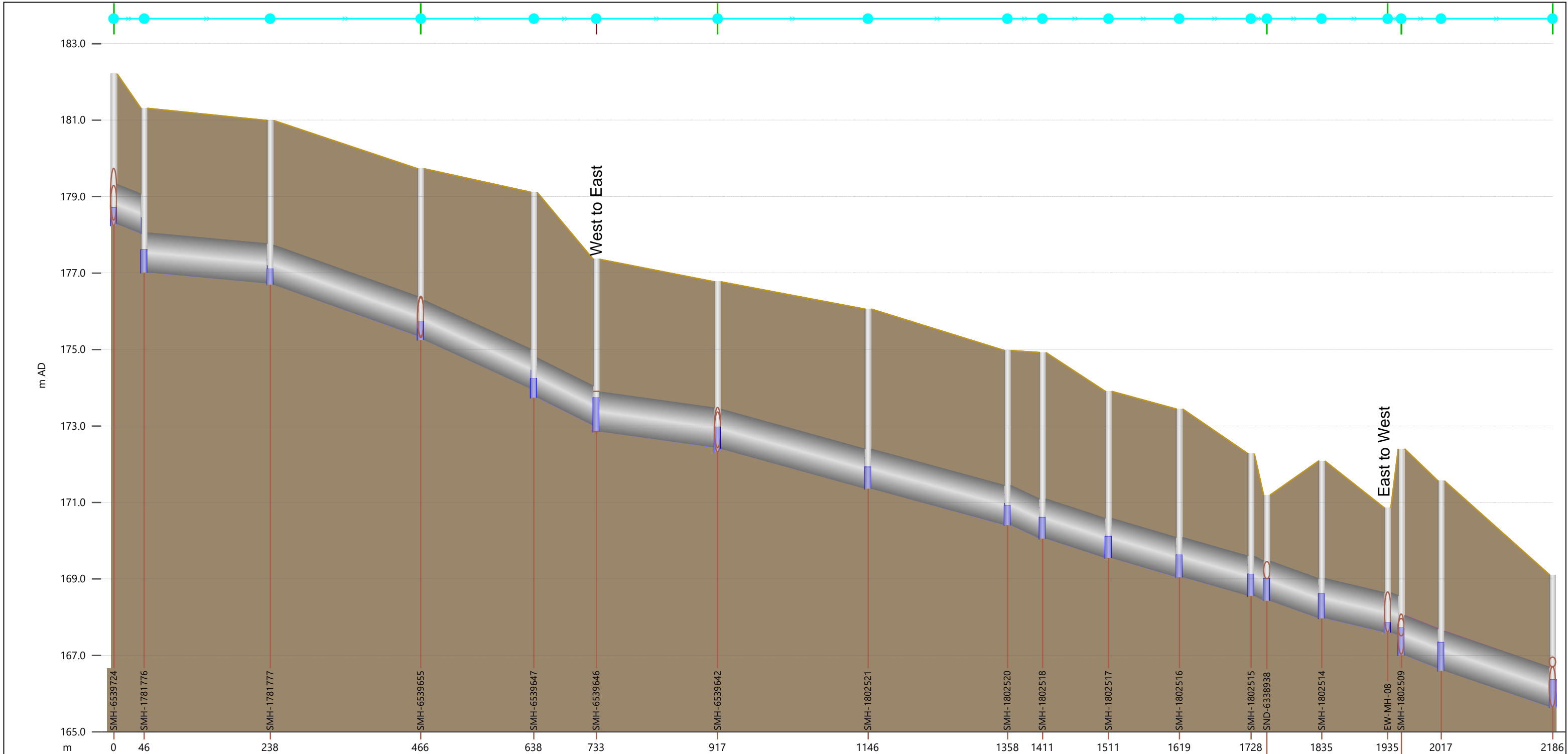
Link	SMH-6539724.2	SMH-6539658.1	SMH-6539657.1	SMH-1781778.1	-	West_East_Dummy.1	SMH-6539642.2	SMH-6539633.1	-	-	-	-	-	-	-	-	-	-		
length (m)	145.6	129.1	200.7	166.5	106.6	159.3	218.4	188.2	79.7	110.8	108.1	117.4	100.2	103.7	70.1	114.0	-	-		
height (mm)	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050		
us inv (m AD)	178.240	177.150	176.280	175.180	174.169	173.520	172.315	171.140	169.780	169.339	168.650	168.100	167.291	166.620	166.019	165.600	-	-		
ds inv (m AD)	177.250	176.340	175.302	174.169	173.520	172.550	171.280	169.880	169.449	168.750	168.220	167.440	166.780	166.101	165.650	164.880	-	-		
grad (m/m)	0.00680	0.00628	0.00487	0.00607	0.00609	0.00609	0.00474	0.00670	0.00415	0.00531	0.00398	0.00562	0.00510	0.00501	0.00527	0.00632	-	-		
r.pfc (m3/s)	2.252	2.164	1.907	2.128	2.131	2.131	1.880	2.235	1.760	1.991	1.722	2.048	1.950	1.933	1.982	2.171	-	-		
surc	0.44	0.45	0.49	0.35	0.50	0.50	0.60	0.54	0.63	0.58	0.64	0.57	0.58	0.59	0.41	0.38	-	-		
US flow (m3/s)	0.88951	0.88951	0.88951	0.55107	0.55106	1.04296	1.25935	1.25929	1.25927	1.25926	1.25926	1.25925	1.25924	1.25924	0.67266	0.67265	-	-		
DS depth (m)	0.459	0.469	0.511	0.371	0.523	0.522	0.630	0.570	0.639	0.606	0.639	0.599	0.612	0.616	0.428	0.404	-	-		
DS flow (m3/s)	0.88951	0.88951	0.88950	0.55106	0.55024	1.04293	1.25929	1.25927	1.25926	1.25926	1.25925	1.25924	1.25924	1.25923	0.67265	0.67265	-	-		
DS velocity (m/s)	2.446	2.375	2.127	2.018	2.019	2.424	2.324	2.628	2.283	2.434	2.284	2.468	2.402	2.386	2.028	2.194	-	-		
Node	-	SMH-6539658	SMH-6539657	-	-	SMH-6482160	-	-	SMH-6539633	SMH-6539632	-	-	-	-	-	-	-	-	-	
ground (m AD)	182.210	180.610	180.490	179.731	179.140	178.069	178.100	178.160	176.775	176.570	175.180	174.579	173.820	173.040	171.631	171.390	-	-	170.940	-
expr:Freeboard	-	2.990478	3.697916	3.999234	3.590256	3.529419	4.056635	5.123455	3.806921	4.834694	4.731361	4.595647	4.481407	4.323768	3.713581	4.136368	-	-	4.935392	-

Deep Trunk Alternative - Existing South Trunk - Surcharge - 5-year SCS Storm



Link	-	SMH-1781679.1			-	SMH-1781681.1			SMH-1781682.1		SMH-1781683.1		-	-	-	-	-	-	SMH-1781671.1			-	SMH-6539727.1		SMH-6539726.1	
length (m)	-	140.7	170.0	93.0	-	169.6	168.1	155.3	69.8	60.1	77.9	110.6	101.0	59.0	63.5	112.0	39.3	50.7	194.6	55.5	172.3	134.3	-	184.338	182.739	-
height (mm)	1050	1050	1050	-	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	750	1050	1050	1050	1350	1350	-	1050	1350	-
us inv (m AD)	191.050	190.859	190.520	-	190.213	189.874	189.329	188.765	-	188.634	188.619	188.366	-	-	187.832	-	-	184.206	-	179.788	178.799	178.799	-	184.338	182.739	-
ds inv (m AD)	190.859	190.520	190.288	-	189.874	189.329	188.686	188.697	-	188.619	188.366	188.143	-	-	187.667	-	-	183.167	-	178.899	178.383	178.383	-	184.338	182.739	-
grad (m/m)	0.00136	0.00199	0.00250	-	0.00200	0.00324	0.00414	0.00097	-	0.00019	0.00229	0.00221	-	-	0.00147	-	-	0.00534	-	0.00516	0.00310	0.00310	-	3.801974	3.250505	-
r.pfc (m3/s)	1.006	1.220	1.364	-	1.221	1.555	1.757	0.852	0.884	0.379	1.306	1.283	1.629	1.089	1.048	-	-	1.995	2.084	3.834	2.972	2.972	-	3.801974	3.250505	-
surc	0.52	0.48	0.44	-	0.47	0.42	0.51	0.43	0.44	0.44	0.35	0.35	0.38	0.38	0.37	0.74	0.67	0.66	2.084	0.64	0.44	0.51	-	3.801974	3.250505	-
US flow (m3/s)	0.55000	0.55454	0.55423	-	0.55411	0.55406	0.55404	0.32795	-	0.32793	0.32792	0.32792	-	-	0.32790	-	-	1.55072	-	1.55311	1.55310	1.55310	-	3.801974	3.250505	-
DS depth (m)	0.500	0.466	0.464	-	0.439	0.417	0.533	0.454	0.462	0.365	0.365	0.335	0.395	0.392	0.318	-	0.702	0.693	0.676	0.598	0.661	0.661	-	3.801974	3.250505	-
DS flow (m3/s)	0.55004	0.55424	0.55413	-	0.55406	0.55405	0.55362	0.32794	-	0.32792	0.32792	0.32791	-	-	0.32789	-	-	1.55070	-	1.55310	1.55309	1.55309	-	3.801974	3.250505	-
DS velocity (m/s)	1.359	1.497	1.509	-	1.616	1.728	1.330	0.913	0.893	1.226	1.225	1.381	1.102	1.113	1.480	-	2.783	2.558	2.630	2.538	2.231	2.231	-	3.801974	3.250505	-
Node	-	SMH-1781679		SMH-1781680	-	SMH-1781682		SMH-1781683		-	-	-	-	-	-	-	-	-	SMH-1781671.1	-	-	-	-	SMH-6539726	-	-
ground (m AD)	-	195.199	194.280	-	193.703	192.374	190.969	192.186	-	-	196.359	191.716	192.413	-	192.124	190.692	-	188.726	186.977	-	-	-	184.338	182.739	-	
expr:Freeboard	-	3.839945	3.294404	-	2.993070	2.061134	1.227484	2.966914	-	-	7.375235	2.984951	-	-	3.900108	-	-	3.801974	3.323268	-	-	-	3.951678	3.250505	-	

Deep Trunk Alternative - Existing South Trunk - Surcharge - 5-year SCS Storm



Link	-	SMH-1781776.1	SMH-1781777.1	SMH-6539655.2	-	SMH-6539646.1	SMH-6539642.1	SMH-1802521.1	-	-	-	-	-	-	-	SMH-1799128.1		
length (m)	46.3	191.4	228.6	171.9	94.9	184.4	228.4	211.9	53.2	100.3	107.5	109.0	-	83.4	100.3	60.6	169.3	
height (mm)	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	
us inv (m AD)	-	177.010	176.693	175.250	173.740	172.854	172.400	171.358	-	170.053	169.544	169.044	-	168.425	167.969	-	166.595	
ds inv (m AD)	-	176.726	175.344	173.970	173.010	172.430	171.360	170.404	-	169.544	169.044	168.559	-	167.969	167.597	-	165.649	
grad (m/m)	-	0.00148	0.00590	0.00745	0.00769	0.00230	0.00455	0.00450	-	0.00507	0.00465	0.00445	-	0.00547	0.00371	-	0.00559	
r.pfc (m3/s)	2.038	1.052	2.098	2.357	2.396	1.310	1.843	1.833	2.218	1.945	1.863	1.822	-	2.019	1.663	-	2.061	
surc	0.40	0.56	0.39	0.46	0.69	0.78	0.54	0.54	0.52	0.54	0.55	0.54	-	0.60	0.59	-	0.65	
US flow (m3/s)	-	0.66358	0.66356	1.00197	1.00197	1.30195	1.01948	1.01941	-	1.01934	1.01931	1.01928	-	1.10147	1.10145	-	1.57230	
DS depth (m)	0.417	0.457	0.409	0.480	0.723	0.649	0.564	0.564	0.549	0.566	0.574	0.566	-	0.632	0.596	-	0.710	
DS flow (m3/s)	-	0.66356	0.66355	1.00197	1.00195	1.30194	1.01941	1.01936	-	1.01931	1.01928	1.01926	-	1.10145	1.10144	-	1.57211	
DS velocity (m/s)	2.070	1.834	2.125	2.596	1.739	2.315	2.159	2.155	2.230	2.161	2.124	2.143	-	2.024	2.172	-	2.528	
Node	-	SMH-1781777	SMH-1781777	SMH-6539655	SMH-6539647	SMH-6539646	SMH-6539642	SMH-1802521	SMH-1802520	-	-	-	-	-	-	-	-	-
ground (m AD)	181.310	180.993	180.993	179.731	179.120	177.364	176.775	176.058	174.974	174.923	173.904	173.444	-	172.079	-	171.565	169.104	
expr:Freeboard	3.707186	3.890461	3.890461	3.999234	4.887990	3.631380	3.806921	4.133882	4.057054	-	3.794961	3.827041	-	3.479375	-	4.226133	2.746136	

**Deep Trunk Alternative - Proposed Trunk
Surcharge - 5-year SCS Storm**

Location	US node ID	US invert level (m AD)	DS invert level (m AD)	Max Surcharge state
Kennedy	DeepTrunk_Dummy	178.71	176.82	0.85
Biscayne	XXXX000003	176.82	175.75	0.84
	XXXX000004	175.75	174.77	0.83
	XXXX000005	174.77	174.24	0.82
	XXXX000006	174.24	173.45	0.81
	XXXX000007	173.45	171.2	0.8
WestCr_407	XXXX000008	171.2	168.95	0.74
WestEast	XXXX000001	168.95	167.09	0.73

**Deep Trunk Alternative - Proposed Trunk
Freeboard - 25-year SCS Storm**

Location	Node ID	US invert level (m AD)	expr:Freeboard
Kennedy	DeepTrunk_Dummy	178.71	15.666223
Biscayne	XXXX000003	176.82	17.981796
	XXXX000004	175.75	13.858795
	XXXX000005	174.77	8.135132
	XXXX000006	174.24	8.35788
	XXXX000007	173.45	12.397781
WestCr_407	XXXX000007	173.45	12.397781
WestEast	XXXX000008	171.2	4.742096
	XXXX000001	168.95	3.674194
EastWest	XXXX000002	167.09	4.401245

**Deep Trunk Alternative - Existing North Trunk
Surcharge - 5-year SCS Storm**

Location	US node ID	US invert level (m AD)	Max Surcharge state
Kennedy	Kennedy_Dummy2	191.229	0.22
	SMH-1781608	191.185	0.22
	SND-6337990	191.168	0.22
	SMH-1781678	191.088	0.17
	SMH-1781677	190.572	0.26
	SMH-1781676	190.03	0.3
	SMH-1781675	189.923	0.5
	SMH-6553995	189.69	0.55
	SMH-1781674	189.652	0.7
	SMH-1781673	189.49	0.73
Biscayne	SMH-1781672	189.457	0.78
	SMH-1781662	189.4	0.78
	SMH-1781663	189.332	0.74
	SMH-1781664	189.198	0.63
	SMH-1781665	188.686	0.44
	SMH-1781666	188.085	0.46
	SMH-1781667	187.379	0.49
	SMH-1781668	186.863	0.56
	SMH-1781670	185.221	0.51
	SMH-1781669	184.815	0.67
	SND-1962224	184.337	0.67
	SMH-1781671	184.206	0.66
	SMH-1781698	183.167	0.46

**Deep Trunk Alternative - Existing North Trunk
Surcharge - 5-year SCS Storm**

Location	US node ID	US invert level (m AD)	Max Surcharge state
WestCr_407	SMH-1781699	182.777	0.64
	SMH-6539725	182.194	0.63
	SMH-6539727	179.788	0.44
	SMH-6539726	178.799	0.51
	SMH-6539724	178.24	0.44
	SMH-6539658	177.15	0.45
	SMH-6539657	176.28	0.49
	SMH-6539655	175.337	0.38
WestEast	SMH-1781778	175.18	0.35
	SMH-6482160	174.169	0.5
	West_East_Dummy	173.52	0.5
	SMH-1802522	172.52	0.51
	SMH-6539642	172.315	0.6
	SMH-6539633	171.14	0.54
	SMH-6539632	169.78	0.63
	SMH-6539631	169.339	0.58
	SMH-6539630	168.65	0.64
	SMH-6539629	168.1	0.57
EastWest	SMH-6539628	167.291	0.58
	SMH-6539627	166.62	0.76
	EW-MH-07	166.101	0.77
	SMH-6539626	166.019	0.76
	SMH-6539625	165.6	0.75

**Deep Trunk Alternative - Existing North Trunk
Surcharge - 5-year SCS Storm**

Location	US node ID	US invert level (m AD)	Max Surcharge state
	SMH-6539624	164.83	0.84
	SMH-6539623	164.14	0.72
	SND-6514264	162.812	0.74
	SMH-6525965	162.75	0.75
	SMH-6525945	161.52	0.69

**Deep Trunk Alternative - Existing North Trunk
Freeboard - 25-year SCS Storm**

Location	Node ID	US invert level (m AD)	expr:Freeboard
Kennedy	Kennedy_Dummy2	191.229	6.556107
	SMH-1781608	191.185	5.164559
	SND-6337990	191.168	10.368508
	SMH-1781678	191.088	4.200315
	SMH-1781677	190.572	4.633882
	SMH-1781676	190.03	4.134709
	SMH-1781675	189.923	4.05458
	SMH-6553995	189.69	3.467584
	SMH-1781674	189.652	3.72892
	SMH-1781673	189.49	2.748919
Biscayne	SMH-1781672	189.457	2.167826
	SMH-1781662	189.4	2.091208
	SMH-1781663	189.332	1.737338
	SMH-1781664	189.198	1.873068
	SMH-1781665	188.686	2.940547
	SMH-1781666	188.085	8.150677
	SMH-1781667	187.379	9.721816
	SMH-1781668	186.863	7.83656
	SMH-1781670	185.221	5.117327
	SMH-1781669	184.815	5.440797
	SND-1962224	184.337	3.631695
	SMH-1781671	184.206	3.745287
	SMH-1781698	183.167	3.299937
	SMH-1781699	182.777	2.156029
	SMH-6539725	182.194	2.842632
SMH-6539727	179.788	3.920962	

**Deep Trunk Alternative - Existing North Trunk
Freeboard - 25-year SCS Storm**

Location	Node ID	US invert level (m AD)	expr:Freeboard
WestCr_407	SMH-6539726	178.799	3.216737
	SMH-6539724	178.24	3.489175
	SMH-6539658	177.15	2.967025
	SMH-6539657	176.28	3.681498
	SMH-6539655	175.337	3.976483
WestEast	SMH-1781778	175.18	3.576783
	SMH-6482160	174.169	3.513031
	West_East_Dummy	173.52	4.003931
	SMH-1802522	172.52	5.073925
	SMH-6539642	172.315	3.758292
	SMH-6539633	171.14	4.790657
	SMH-6539632	169.78	4.701149
	SMH-6539631	169.339	4.537237
	SMH-6539630	168.65	4.44793
	SMH-6539629	168.1	4.287238
	SMH-6539628	167.291	3.662952
	SMH-6539627	166.62	4.083817
	EastWest	EW-MH-07	166.101
SMH-6539626		166.019	6.355017
SMH-6539625		165.6	4.785581
SMH-6539624		164.88	5.119605

**Deep Trunk Alternative - Existing South Trunk
Surcharge - 5-year SCS Storm**

Location	US node ID	US invert level (m AD)	Max Surcharge state
Kennedy	Kennedy_Dummy3	191.05	0.52
	SMH-1781679	190.859	0.48
	SMH-1781680	190.52	0.44
	SMH-6553996	190.264	0.47
Biscayne	SMH-1781681	190.213	0.47
	SMH-1781682	189.874	0.42
	SMH-1781683	189.329	0.51
	SMH-1781665	188.765	0.43
	SMH-1781685	188.697	0.44
	SMH-1781686	188.634	0.44
	SMH-1781687	188.619	0.35
	SMH-1781688	188.366	0.35
	SMH-1781708	188.143	0.38
	SMH-1781689	187.933	0.38
	SMH-1781690	187.832	0.37
	SMH-1781691	187.667	0.74
	SMH-1781669	184.815	0.67
	SND-1962224	184.337	0.67
	SMH-1781671	184.206	0.66
	SMH-1781698	183.167	0.46
	SMH-1781699	182.777	0.64
	SMH-6539725	182.194	0.63
	SMH-6539727	179.788	0.44
	SMH-6539726	178.799	0.51
WestCr_407	SMH-6539724	178.283	0.4
	SMH-1781776	177.01	0.56
	SMH-1781777	176.693	0.39
WestEast	SMH-6539655	175.25	0.46
	SMH-6539647	173.74	0.69

**Deep Trunk Alternative - Existing South Trunk
Surcharge - 5-year SCS Storm**

Location	US node ID	US invert level (m AD)	Max Surcharge state
EastWest	SMH-6539646	172.854	0.78
	SMH-6539642	172.4	0.54
	SMH-1802521	171.358	0.54
	SMH-1802520	170.404	0.52
	SMH-1802518	170.053	0.54
	SMH-1802517	169.544	0.55
	SMH-1802516	169.044	0.54
	SMH-1802515	168.557	0.54
	SND-6338938	168.425	0.6
	SMH-1802514	167.969	0.59
	EW-MH-08	167.597	0.36
	SMH-1802509	167	0.83
	SMH-1799128	166.595	0.82
	SND-6338956	165.649	0.82
	SMH-1799262	165.211	0.82
	SND-6338973	164.098	0.82
	SND-6519692	163.918	0.79
	SND-6338981	163.761	0.91
	SMH-1799129	163.559	0.88

**Deep Trunk Alternative - Existing South Trunk
Freeboard - 25-year SCS Storm**

Location	Node ID	US invert level (m AD)	expr:Freeboard
Kennedy	Kennedy_Dummy3	191.05	6.40564
	SMH-1781679	190.859	3.836665
	SMH-1781680	190.52	3.291841
	SMH-6553996	190.264	2.843148
Biscayne	SMH-1781681	190.213	2.990277
	SMH-1781682	189.874	2.059379
	SMH-1781683	189.329	1.225317
	SMH-1781665	188.765	2.940547
	SMH-1781685	188.697	2.020746
	SMH-1781686	188.634	7.185912
	SMH-1781687	188.619	7.358893
	SMH-1781688	188.366	2.968106
	SMH-1781708	188.143	3.914587
	SMH-1781689	187.933	3.37979
	SMH-1781690	187.832	3.877754
	SMH-1781691	187.667	2.82936
	SMH-1781669	184.815	5.440797
	SND-1962224	184.337	3.631695
	SMH-1781671	184.206	3.745287
	SMH-1781698	183.167	3.299937
	SMH-1781699	182.777	2.156029
	SMH-6539725	182.194	2.842632
	SMH-6539727	179.788	3.920962
	SMH-6539726	178.799	3.216737
WestCr_407	SMH-6539724	178.283	3.489175
	SMH-1781776	177.01	3.683001
	SMH-1781777	176.693	3.869633
WestEast	SMH-6539655	175.25	3.976483
	SMH-6539647	173.74	4.866414

**Deep Trunk Alternative - Existing South Trunk
Freeboard - 25-year SCS Storm**

Location	Node ID	US invert level (m AD)	expr:Freeboard
EastWest	SMH-6539646	172.854	3.587679
	SMH-6539642	172.4	3.758292
	SMH-1802521	171.358	4.09192
	SMH-1802520	170.404	4.011842
	SMH-1802518	170.053	4.257656
	SMH-1802517	169.544	3.746361
	SMH-1802516	169.044	3.781479
	SMH-1802515	168.557	3.105247
	SND-6338938	168.425	2.13004
	SMH-1802514	167.969	3.406637
	EW-MH-08	167.597	2.964218
	SMH-1802509	167	4.503325
	SMH-1799128	166.595	4.049146
SND-6338956	165.649	2.597301	