

Program Package Serial Number: 1513

WATER SURFACE PROFILE LISTING

Date: 2- 3-2010 Time: 1:52:20

LANGTRY CHANNEL

PROPOSED CHANNEL IMPROVEMENTS

8" LINING, INV RAISED FROM STA 10+31 TO STA 22+98.31

 *** **

Station	Invert Elev	Depth (FT)	Water Elev	Q (CFS)	Vel (FPS)	Vel Head	Energy Grd.El.	Super Elev	Critical Elev	Flow Top	Height/Depth	Base Wt	No ZL	With Prs/Pip
L/Elem	Ch Slope				SF Ave	HF	SE Dpth	Froude N	Norm Dp	"N"	X-Fall	ZR	Type	Ch
-2410.500	2146.000	2.010	2148.010	250.00	20.73	6.68	2154.69	.00	3.78	6.00	4.000	6.000	.00	0 .0
10.500	.0286			.0256	.27	2.01	2.58	1.94	.013	.00	.00	BOX		
-2400.000	2146.300	2.014	2148.314	250.00	20.69	6.64	2154.96	.00	3.78	6.00	4.000	6.000	.00	0 .0
TRANS STR	.0300			.0254	.20	2.01	2.57		.013	.00	.00	BOX		
-2392.000	2146.540	2.020	2148.560	250.00	20.63	6.61	2155.17	.00	3.78	6.00	6.000	6.000	.00	0 .0
36.390	.0302			.0247	.90	2.02	2.56	1.90	.013	.00	.00	BOX		
-2355.610	2147.640	2.058	2149.698	250.00	20.25	6.37	2156.06	.00	3.78	6.00	9.000	6.000	.00	0 .0
7.230	.0000			.0246	.18	2.06	2.49	.00	.013	.00	.00	RECTANG		
-2348.380	2147.640	2.024	2149.664	250.00	20.58	6.58	2156.24	.00	3.78	6.00	9.000	6.000	.00	0 .0
WALL EXIT														
-2348.380	2152.230	2.023	2154.253	250.00	41.19	26.35	2180.60	.00	5.36	3.00			4	0 .0
TRANS STR	.0603			.1731	4.33	2.02	5.10		.013			IR-OPEN		
-2323.340	2153.740	1.894	2155.634	250.00	44.00	30.06	2185.69	.00	4.50	3.00			5	0 .0
TRANS STR	.0279			.2131	5.36	1.89	5.63		.013			IR-OPEN		
-2298.210	2156.200	1.729	2157.928	250.00	16.68	4.32	2162.25	.00	2.96	8.67	5.000	8.670	.00	0 .0
3.292	.1005			.0151	.05	1.73	2.24	.94	.013	.00	.00	RECTANG		
-2294.918	2156.531	1.804	2158.335	250.00	15.98	3.97	2162.30	.00	2.96	8.67	5.000	8.670	.00	0 .0
3.121	.1005			.0132	.04	1.80	2.10	.94	.013	.00	.00	RECTANG		

Program Package Serial Number: 1513

WATER SURFACE PROFILE LISTING

Date: 2- 3-2010 Time: 1:52:20

LANGTRY CHANNEL

PROPOSED CHANNEL IMPROVEMENTS

8" LINING, INV RAISED FROM STA 10+31 TO STA 22+98.31

 *** **

Station	Invert Elev	Depth (FT)	Water Elev	Q (CFS)	Vel (FPS)	Vel Head	Energy Grd.El.	Super Elev	Critical Elev	Flow Depth	Top Height	Base Wt	No ZL	With Prs/Pip
L/Elem	Ch Slope				SF Ave	HF	SE Dpth	Froude N	Norm Dp	"N"	X-Fall	ZR	Type	Ch
-2291.797	2156.844	1.892	2158.737	250.00	15.24	3.61	2162.34	.00	2.96	8.67	5.000	8.670	.00	0 .0
2.644	.1005			.0115	.03	1.89	1.95	.94	.013	.00	.00	RECTANG		
-2289.152	2157.110	1.985	2159.095	250.00	14.53	3.28	2162.37	.00	2.96	8.67	5.000	8.670	.00	0 .0
2.222	.1005			.0100	.02	1.98	1.82	.94	.013	.00	.00	RECTANG		
-2286.931	2157.334	2.082	2159.416	250.00	13.85	2.98	2162.39	.00	2.96	8.67	5.000	8.670	.00	0 .0
1.844	.1005			.0087	.02	2.08	1.69	.94	.013	.00	.00	RECTANG		
-2285.087	2157.519	2.183	2159.702	250.00	13.21	2.71	2162.41	.00	2.96	8.67	5.000	8.670	.00	0 .0
1.503	.1005			.0076	.01	2.18	1.58	.94	.013	.00	.00	RECTANG		
-2283.584	2157.670	2.290	2159.960	250.00	12.59	2.46	2162.42	.00	2.96	8.67	5.000	8.670	.00	0 .0
1.194	.1005			.0066	.01	2.29	1.47	.94	.013	.00	.00	RECTANG		
-2282.390	2157.790	2.402	2160.191	250.00	12.01	2.24	2162.43	.00	2.96	8.67	5.000	8.670	.00	0 .0
139.800	.0062			.0062	.86	2.40	1.37	2.40	.013	.00	.00	RECTANG		
-2142.590	2158.653	2.402	2161.055	250.00	12.01	2.24	2163.29	.00	2.96	8.67	5.000	8.670	.00	0 .0
230.234	.0062			.0060	1.39	2.40	1.37	2.40	.013	.00	.00	RECTANG		
-1912.356	2160.075	2.442	2162.517	250.00	11.81	2.16	2164.68	.00	2.96	8.67	5.000	8.670	.00	0 .0
117.466	.0062			.0055	.65	2.44	1.33	2.40	.013	.00	.00	RECTANG		
-1794.890	2160.800	2.561	2163.361	250.00	11.26	1.97	2165.33	.00	2.96	8.67	5.000	8.670	.00	0 .0
39.684	.0062			.0048	.19	2.56	1.24	2.40	.013	.00	.00	RECTANG		

Program Package Serial Number: 1513

WATER SURFACE PROFILE LISTING

Date: 2- 3-2010 Time: 1:52:20

LANGTRY CHANNEL

PROPOSED CHANNEL IMPROVEMENTS

8" LINING, INV RAISED FROM STA 10+31 TO STA 22+98.31

 *** **

Station	Invert Elev	Depth (FT)	Water Elev	Q (CFS)	Vel (FPS)	Vel Head	Energy Grd.El.	Super Elev	Critical Depth	Flow Top	Height	Base Wt	No ZL	With Prs/Pip
L/Elem	Ch Slope				SF Ave	HF	SE Dpth	Froude N	Norm Dp	"N"	X-Fall	ZR	Type	Ch
-1755.206	2161.045	2.686	2163.731	250.00	10.73	1.79	2165.52	.00	2.96	8.67	5.000	8.670	.00	0 .0
16.052	.0062			.0042	.07	2.69	1.15	2.40	.013	.00	.00	RECTANG		
-1739.154	2161.144	2.817	2163.962	250.00	10.23	1.63	2165.59	.00	2.96	8.67	5.000	8.670	.00	0 .0
4.154	.0062			.0037	.02	2.82	1.07	2.40	.013	.00	.00	RECTANG		
-1735.000	2161.170	2.956	2164.126	250.00	9.76	1.48	2165.60	.00	2.96	8.67	5.000	8.670	.00	0 .0
7.765	.0019			.0032	.03	2.96	1.00	3.64	.013	.00	.00	RECTANG		
-1727.235	2161.185	3.100	2164.285	250.00	9.30	1.34	2165.63	.00	2.96	8.67	5.000	8.670	.00	0 .0
33.137	.0019			.0028	.09	3.10	.93	3.64	.013	.00	.00	RECTANG		
-1694.098	2161.249	3.251	2164.501	250.00	8.87	1.22	2165.72	.00	2.96	8.67	5.000	8.670	.00	0 .0
57.128	.0019			.0025	.14	3.25	.87	3.64	.013	.00	.00	RECTANG		
-1636.970	2161.360	3.366	2164.726	250.00	8.57	1.14	2165.87	.00	2.96	8.67	6.500	8.670	.00	0 .0
30.450	.0013			.0023	.07	3.37	.82	4.21	.013	.00	.00	RECTANG		
-1606.520	2161.400	3.455	2164.854	250.00	8.35	1.08	2165.94	.00	2.96	8.67	6.500	8.670	.00	0 .0
300.820	.0023			.0023	.68	3.45	.79	3.40	.013	.00	.00	RECTANG		
-1305.700	2162.100	3.409	2165.509	250.00	8.46	1.11	2166.62	.00	2.96	8.67	6.500	8.670	.00	0 .0
204.830	.0020			.0022	.45	3.41	.81	3.63	.013	.00	.00	RECTANG		
-1100.870	2162.500	3.541	2166.041	250.00	8.14	1.03	2167.07	.00	2.96	8.67	6.500	8.670	.00	0 .0
38.080	.0026			.0021	.08	3.54	.76	3.25	.013	.00	.00	RECTANG		

Program Package Serial Number: 1513

WATER SURFACE PROFILE LISTING

Date: 2- 3-2010 Time: 1:52:20

LANGTRY CHANNEL

PROPOSED CHANNEL IMPROVEMENTS

8" LINING, INV RAISED FROM STA 10+31 TO STA 22+98.31

 *** **

Station	Invert Elev	Depth (FT)	Water Elev	Q (CFS)	Vel (FPS)	Vel Head	Energy Grd.El.	Super Elev	Critical Elev	Flow Depth	Top Height	Base Wt	No ZL	With Prs/Pip
L/Elem	Ch Slope				SF Ave	HF	SE Dpth	Froude N	Norm Dp	"N"	X-Fall	ZR	Type	Ch
-1062.790	2162.600	3.493	2166.094	250.00	8.25	1.06	2167.15	.00	2.96	8.67	6.500	8.670	.00	0 .0
22.790	.0013			.0021	.05	3.49	.78	4.21	.013	.00	.00	RECTANG		
-1040.000	2162.630	3.540	2166.170	250.00	8.15	1.03	2167.20	.00	2.96	8.67	6.500	8.670	.00	0 .0
TRANS STR	-.1644			.0013	.01	3.54	.76	.013	.00	.00	RECTANG			
-1031.000	2161.150	5.734	2166.884	250.00	5.03	.39	2167.28	.00	2.96	8.67	8.000	8.670	.00	0 .0
31.000	.0048			.0006	.02	5.73	.37	2.62	.013	.00	.00	RECTANG		
-1000.000	2161.300	5.581	2166.881	250.00	5.17	.41	2167.30	.00	2.96	8.67	8.000	8.670	.00	0 .0
WALL EXIT														
-1000.000	2161.300	5.581	2166.881	250.00	6.25	.61	2167.49	.00	3.12	8.00	5.000	8.000	.00	0 .0
50.000	.0094			.0017	.08	5.58	.49	2.22	.013	.00	.00	BOX		
-950.000	2161.770	5.275	2167.045	250.00	6.25	.61	2167.65	.00	3.12	8.00	5.000	8.000	.00	0 .0
45.000	.0091			.0017	.08	5.28	.49	2.25	.013	.00	.00	BOX		
-905.000	2162.180	5.013	2167.193	250.00	6.25	.61	2167.80	.00	3.12	8.00	5.000	8.000	.00	0 .0