

(4)

Final Run: from culvert Entrance, through bridge, to  
upstream limit of study

GABRIELS

CREEK



PAGE 1 OF PROFILE NOTES FOR: GABRIELS CREEK MARS HILL TEST 1  
 PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

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728; WS TOO LOW ; USED WSMIN = WSC
728; WS NOT FOUND BETWEEN ; WS = 24.37 * WS = 33.20; USED DEL = 0.25
; ; ASSUMED WS = WSC
1058; WS TOO LOW ; USED WSMIN = WSC
1058; WS NOT FOUND BETWEEN ; WS = 31.72 * WS = 34.13; USED DEL = 0.25
; ; ASSUMED WS = WSC
1195; FRCN FAILURE ; WS = 33.43 * FR = 1.47; USED HIGHER WS
; ; USED DEL = 0.25
1195; WS NOT FOUND BETWEEN ; WS = 31.62 * WS = 35.40; USED HIGHER WS
; ; USED WSMIN = WSC
1195; FRCN FAILURE ; WS = 33.43 * FR = 1.47; USED HIGHER WS
; ; USED WSMIN = WSC
1195; WS NOT FOUND BETWEEN ; WS = 31.62 * WS = 35.40; ASSUMED WS = WSC
; ;
  
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WATER-SURFACE PROFILE FOR: GABRIELS CREEK MARS HILL TEST 1  
 PAGE 1 OF 1, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW			
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID				
DOWN	AT	0	0	1250.	137.	11688.	1.00	32.	85.			
11.19	/	1.29	/	12.48	/	9.12	/	1.00	*13*			
728	AT	728	728	1250.	103.	11122.	1.00	8.	30.			
24.37	/	2.31	/\$99999.	/\$99999.	/	26.68	/	12.19	/	1.00	/\$99999.	*XS*
1058	AT	1058	330	1250.	118.	12053.	1.00	207.	240.			
31.72	/	1.75	/\$99999.	/\$99999.	/	33.48	/	10.61	/	1.00	/\$99999.	*XS*
1195	AT	1195	137	1250.	113.	11026.	1.00	0.	30.			
34.29	/	1.89	/\$99999.	/\$99999.	/	36.18	/	11.01	/	1.00	/\$99999.	*XS*

END OF THIS PROFILE

COMPUTED WSC VALUES FOR: GABRIEL'S CREEK MARS HILL  
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

TEST 1

SECID	728	1058	1195
WSC	24.37	31.72	34.29

(2)

\*\*\* INPUT CARD PRINTOUT \*\*\*

	1	2	3	4	5	6	7	8
1	5	0	5	0	5	0	5	0
2	0	5	0	5	0	5	0	5
3	5	0	5	0	5	0	5	0
4	0	5	0	5	0	5	0	5
5	5	0	5	0	5	0	5	0
6	0	5	0	5	0	5	0	5
7	5	0	5	0	5	0	5	0
8	0	5	0	5	0	5	0	5
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10	0	5	0	5	0	5	0	5
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22	0	5	0	5	0	5	0	5
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30	0	5	0	5	0	5	0	5
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168	0	5	0	5	0	5	0	5
169	5	0	5	0	5	0	5	0
170	0	5	0	5	0	5</		

PAGE 1 OF PROFILE NOTES FOR: GABRIELS CREEK MARS HILL TEST 1  
PROFILE NUMBER 1 UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

728; WS TOO LOW					USED WSMIN = WSC
1058; WS TOO LOW					USED WSMIN = WSC
1058; WS NOT FOUND BETWEEN	WS =	31.72	* WS =	34.10	USED DEL = 0.25
1058; WS NOT FOUND					ASSUMED WS = WSC
1195; FRON FAILURE	WS =	33.43	* FR =	1.47	USED HIGHER WS
1195; WS NOT FOUND BETWEEN	WS =	31.62	* WS =	35.40	USED DEL = 0.25
1195; FRON FAILURE	WS =	33.43	* FR =	1.47	USED HIGHER WS
1195; WS NOT FOUND BETWEEN	WS =	31.62	* WS =	35.40	USED WSMIN = WSC
1195; WS NOT FOUND					ASSUMED WS = WSC

WATER-SURFACE PROFILE FOR: GABRIELS CREEK MARS HILL TEST 1  
 PAGE 1 OF 1, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REH
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID	
DOWN	AT	0	0	1250.	137.	11688.	1.00	32.	85.
11.19	1.29			12.48	9.12	1.00		*IS*	
728	AT	728	728	1250.	275.	13154.	1.00	12.	300.
19.56	0.32	7.40	0.00	19.88	4.54	0.78	0.001	*XS*	
1058	AT	1058	330	1250.	118.	12053.	1.00	207.	240.
31.72	1.75	/\$99999.	/\$99999.	33.48	10.61	1.00	/\$99999.	*XS*	Exit of culvert
1195	AT	1195	137	1250.	113.	11026.	1.00	0.	30.
34.29	1.89	/\$99999.	/\$99999.	36.18	11.01	1.00	/\$99999.	*XS*	

*Exit*  
*ASMO AS A*  
*on culvert*  
*Run*  
*in form*  
*same as*  
*on culvert*  
*1/25 Bnd.*

END OF THIS PROFILE

COMPUTED WSC VALUES FOR: GABRIELS CREEK MARS HILL  
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

TEST 1

SECID	728	1058	1195
WSC	19.38	31.72	34.29



PAGE 1 OF PROFILE NOTES FOR: GABRIELS CREEK MARS HILL TEST 1  
PROFILE NUMBER 2, DOWNSTREAM COMPUTATIONS

SECID	ERROR(WARNING) MESSAGE	INTERMEDIATE RESULTS(IF ANY)	ACTION TAKEN
1195	SUPERCritical WS		COMPUTED WSA
1058	KU/KD < 0.7 OR > 1.4		ALERTED USER
1058	SUPERCritical WS		COMPUTED WSA
1058	RIGHT BANK EXTENDED		ALERTED USER
728	KU/KD < 0.7 OR > 1.4		ALERTED USER
728	SUPERCritical WS		COMPUTED WSA
DOWN	WS NOT FOUND BETWEEN	WS = 11.19 * WS = 5.10	USED DEL = -0.25
DOWN	WS NOT FOUND BETWEEN	WS = 11.19 * WS = 5.10	USED KE = 0.5
DOWN	WS NOT FOUND		ASSUMED WS = WSC

WATER-SURFACE PROFILE FOR: GABRIELS CREEK MARS HILL TEST 1  
 PAGE 1 OF 1, PROFILE NUMBER 2, DOWNSTREAM COMPUTATIONS

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=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
  WS ELEV /   HV /   HF /   HE /   EG /   V /   FN /   ACC *ID*
=====
1195 AT 1195 / 0 / 1250. / 36. / 1827. / 1.00 / 0. / 30.
  31.72 / 18.34 / / / 50.06 / 34.34 / 5.50 / *IS*
-----
1058 AT 1058 / -137 / 1250. / 82. / 7386. / 1.00 / 210. / 238.
  30.56 / 3.63 / 15.86 / 0.00 / 34.19 / 15.29 / 1.58 / 0.006 *XS*
-----
728 AT 728 / -330 / 1250. / 133. / 5030. / 1.00 / 13. / 221.
  18.93 / 1.37 / 13.88 / 0.00 / 20.31 / 9.40 / 1.93 / 0.005 *XS*
-----
DOWN AT 0 / -728 / 1250. / 137. / 11674. / 1.00 / 32. / 85.
  11.19 / 1.30 /$999999. /$999999. / 12.48 / 9.13 / 1.00 /$999999. *XS*
=====
    
```

END OF THIS PROFILE

COMPUTED WSC VALUES FOR: GABRIELS CREEK MARS HILL  
PROFILE NUMBER 2, DOWNSTREAM COMPUTATIONS

TEST 1

SECID	DOWN	728	1058	1195
WSC	11.19	19.38	31.72	34.29

COMPUTED WSA VALUES FOR: GABRIELS CREEK MARS HILL  
PROFILE NUMBER 2, DOWNSTREAM COMPUTATIONS

TEST 1

SECID	728	1058	1195
WSA	20.19	33.46	35.39



PAGE 1 OF PROFILE NOTES FOR: MARS HILL CULVERT OPEN CHA  
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

A; WS TOO LOW	;				ASSUMED WS = WSC
B; KU/KD < 0.7 OR > 1.4	;				ALERTED USER
C; FRDN FAILURE	;	WS = 32.78	* FR = 1.00		USED HIGHER WS
C; WS NOT FOUND BETWEEN	;	WS = 32.67	* WS = 35.00		USED DEL = 0.25
C; FRDN FAILURE	;	WS = 32.78	* FR = 1.00		USED HIGHER WS
C; WS NOT FOUND BETWEEN	;	WS = 32.67	* WS = 35.00		USED WSMIN = WSC
D; WS NOT FOUND BETWEEN	;	WS = 32.53	* WS = 35.40		USED DEL = 0.25
D; WS NOT FOUND BETWEEN	;	WS = 32.53	* WS = 35.40		USED WSMIN = WSC
D; WS NOT FOUND	;				ASSUMED WS = WSC

3-2

WATER-SURFACE PROFILE FOR: MARS HILL CULVERT OPEN CHA  
 PAGE 1 OF 1, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW		
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID*			
A	AT	0	0	1250.	118.	12053.	1.00	207.	240.		
31.72	/	1.75	/		33.48	10.61	/	1.00	*IS*		
B	AT	137	137	1250.	136.	23157.	1.00	0.	30.		
32.92	/	1.32	/	0.77	0.00	34.24	/	9.22	0.76	-0.001	*XS*
C	AT	174	37	1250.	113.	17641.	1.00	0.	30.		
32.78	/	1.89	/	0.14	0.28	34.67	/	11.03	1.00	0.003	*XS*
D	AT	184	10	1250.	113.	17442.	1.00	0.	30.		
34.27	/	1.69	/	\$99999.	\$99999.	36.16	/	11.03	1.00	\$99999.	*XS*
BR	AT	200	16	1250.	138.	15305.	1.00	0.	30.		
34.98	/	1.28	/	0.09	0.00	36.26	/	9.06	0.74	-0.002	*XS*

END OF THIS PROFILE

3-3

COMPUTED WSC VALUES FOR: MARS HILL CULVERT  
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

OPEN CHA

SECID	A	C	D
WSC	31.72	32.78	34.27

3-4

PAGE 1 OF PROFILE NOTES FOR: MARS HILL CULVERT OPEN CHA  
PROFILE NUMBER 2, DOWNSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

BR; WS TOO LOW	;				ASSUMED WS = WSC
D; WS NOT FOUND BETWEEN	;	WS = 34.27	* WS = 30.40	USED DEL = 0.25	
D; WS NOT FOUND BETWEEN	;	WS = 34.27	* WS = 30.40	USED KE = 0.5	
D; WS NOT FOUND	;				ASSUMED WS = WSC
C; KU/KD < 0.7 OR > 1.4	;				ALERTED USER
C; SUPERCRITICAL WS	;				COMPUTED WSA
B; SUPERCRITICAL WS	;				COMPUTED WSA
A; WS NOT FOUND BETWEEN	;	WS = 31.72	* WS = 25.30	USED DEL = 0.25	
A; WS NOT FOUND BETWEEN	;	WS = 31.72	* WS = 25.30	USED KE = 0.5	
A; WS NOT FOUND	;				ASSUMED WS = WSC



WATER-SURFACE PROFILE FOR: MARS HILL CULVERT OPEN CHA  
 PAGE 1 OF 1, PROFILE NUMBER 2, DOWNSTREAM COMPUTATIONS

	SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW	
	WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID		
<i>USE</i>	BR	AT	200	0	1250.	113.	11369.	1.00	0.	30.	
	34.16	1.89			36.05	11.03	1.00		*IS*		<i>from</i>
	D	AT	184	-16	1250.	113.	17442.	1.00	0.	30.	
	34.27	1.89	/\$99999.	/\$99999.	36.16	11.03	1.00	/\$99999.	*XS*		<i>Bridge open</i>
	C	AT	174	-10	1250.	72.	8770.	1.00	0.	30.	
	31.41	4.65	0.10	0.00	36.06	17.28	1.96	0.004	*XS*		<i>Cul. Cost</i>
<i>sta 1195</i>	B	AT	137	-37	1250.	74.	9049.	1.00	0.	30.	
	30.86	4.47	0.73	0.00	35.32	16.94	1.91	0.004	*XS*		<i>Bottom of dip</i>
	A	AT	0	-137	1250.	118.	12053.	1.00	207.	240.	
<i>sta 1156</i>	31.72	1.75	/\$99999.	/\$99999.	33.48	10.61	1.00	/\$99999.	*XS*		<i>at change</i>
											<i>Exit</i>

END OF THIS PROFILE

*sta 728 sub +19.56 24.87 if vertical at Bika, 19.56 if dike not there  
 Top of dike = 22.8 use 23.1 at 728*

*sta 0 crit 11.19*

COMPUTED WSC VALUES FOR: MARS HILL CULVERT  
PROFILE NUMBER 2, DOWNSTREAM COMPUTATIONS

OPEN CHA

SECID	A	B	C	D	BR
WSC	31.72	32.18	32.78	34.27	34.16

COMPUTED WSA VALUES FOR: MARS HILL CULVERT  
PROFILE NUMBER 2, DOWNSTREAM COMPUTATIONS

OPEN CHA

SECID	B	C
WSA	34.62	35.00



2247.0	644	52587	1.00	274	277	7	281	5603
2247.5	782	71888	1.00	278	282	5	283	7436
2248.0	922	93619	1.00	282	286	3	286	9448
2248.5	1064	117688	1.00	287	291	1	288	11627
2248.9	1180	138669	1.00	290	294	0	290	13496

CROSS-SECTION PROPERTIES FOR: GABRIEL CREEK CULBERT TO UPST LIMIT FIRST IN  
 SECID=UPPER AT DISTANCE= 3440 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2252.0	7	246	1.00	11	12	70	82	33
2252.5	14	605	1.00	15	15	68	83	76
2253.0	22	1153	1.00	18	19	66	85	139
2253.5	32	1915	1.00	22	23	64	86	223
2254.0	44	2917	1.00	25	26	62	88	331
2254.5	50	4184	1.00	29	30	60	89	464
2255.0	74	5558	1.00	35	36	56	91	609
2255.5	93	7297	1.00	41	42	51	92	791
2256.0	115	9482	1.00	47	48	46	93	1014
2256.5	142	11396	1.00	61	62	33	94	1225
2257.0	175	14245	1.00	75	76	21	95	1526
2257.5	219	16163	1.00	108	110	8	126	1769
2258.0	285	19757	1.00	155	157	-4	152	2192
2258.5	373	26545	1.00	196	198	-16	179	2922
2259.0	481	36321	1.00	231	233	-29	201	3936
2259.5	601	50072	1.00	249	251	-41	207	5293
2260.0	729	66825	1.00	262	264	-49	212	6901
2260.5	862	86929	1.00	268	270	-49	218	8772
2261.0	997	109206	1.00	273	277	-49	223	10804

USGS COMPUTER PROGRAM J635 -- VERSION P-84.001 \*\*\* PAGE = 7 RUN DATE=08/29/85 10:31

CROSS-SECTION PROPERTIES FOR: GABRIEL CREEK CULBERT TO UPST LIMIT FIRST IN  
 SECID=UPPER AT DISTANCE= 3440 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2261.5	1135	133598	1.00	279	283	-49	229	12992
2261.6	1163	138707	1.00	280	284	-49	230	13446

USGS COMPUTER PROGRAM J635 -- VERSION P-84.001 \*\*\* PAGE = 8 RUN DATE=08/29/85 10:31

\*\*\* INPUT CARD PRINTOUT \*\*\*

0	1	2	3	4	5	6	7	8
.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0								
7	150			0	2			
8	151			0	0			

USGS COMPUTER PROGRAM J635 -- VERSION P-84.001 \*\*\* PAGE = 9 RUN DATE=08/29/85 10:31

PAGE 1 OF PROFILE NOTES FOR: GABRIEL CREEK CULBERT TO UPST LIMIT FIRST IN  
 PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

CUL ; FRCN FAILURE

; WS = 2234.27 \* FR = 1.00;

300; FRCN FAILURE

ALERTED USER

4-2



COMPUTED WSC VALUES FOR: GABRIEL CREEK CULBERT TO UPST LIMIT FIRST IN  
 PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID 300 780 UPPER  
 WSC 2239.63 2245.23 2256.54

USGS COMPUTER PROGRAM J635 -- VERSION P-84.001 \*\*\* PAGE = 12 RUN DATE=08/29/85 10:31

PAGE 1 OF PROFILE NOTES FOR: GABRIEL CREEK CULBERT TO UPST LIMIT FIRST IN  
 PROFILE NUMBER 2, DOWNSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

UPPER; WS TOO LOW ; ASSUMED WS = WSC  
 780; KU/KD < 0.7 OR > 1.4 ; ALERTED USER  
 780; SUPERCRITICAL WS ; COMPUTED WSA  
 300; SUPERCRITICAL WS ; COMPUTED WSA  
 77; WS NOT FOUND BETWEEN ;  
 ; WS = 2235.94 \* WS = 2230.70; USED DEL = 0.25  
 77; WS NOT FOUND BETWEEN ;  
 ; WS = 2235.94 \* WS = 2230.70; USED KE = 0.5  
 77; WS NOT FOUND ; ASSUMED WS = WSC  
 BR ; WS NOT FOUND BETWEEN ;  
 ; WS = 2234.15 \* WS = 2230.20; USED DEL = 0.25  
 BR ; WS NOT FOUND BETWEEN ;  
 ; WS = 2234.15 \* WS = 2230.20; USED KE = 0.5  
 BR ; WS NOT FOUND ; ASSUMED WS = WSC  
 CUL ; WS NOT FOUND BETWEEN ;  
 ; WS = 2234.25 \* WS = 2230.40; USED DEL = 0.25  
 CUL ; WS NOT FOUND BETWEEN ;  
 ; WS = 2234.25 \* WS = 2230.40; USED KE = 0.5  
 CUL ; WS NOT FOUND ; ASSUMED WS = WSC

USGS COMPUTER PROGRAM J635 -- VERSION P-84.001 \*\*\* PAGE = 13 RUN DATE=08/29/85 10:31

WATER-SURFACE PROFILE FOR: GABRIEL CREEK CULBERT TO UPST LIMIT FIRST IN  
 PAGE 1 OF 1, PROFILE NUMBER 2, DOWNSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	*ID*	
UPPER	AT	3440	0	1250.	144.	11582.	1.00	32.	94.
2256.54		1.17		2257.71		8.68	1.00		*IS*
780	AT	2804	-636	1250.	167.	7239.	1.00	13.	225.
2245.00		0.87	11.05	0.00	2245.87	7.49	1.38	-0.010	*XS*

44

2239.58 / 0.53 / 5.76 / 0.00 / 2240.10 / 5.82 / 1.10 / 0.001 \*XS\*  
 -----  
 77 AT 2339 / -223 / 1250. / 175. / 10749. / 1.00 / 32. / 145.  
 2235.94 / 0.80 / \$99999. / \$99999. / 2236.74 / 7.15 / 1.01 / \$99999. \*XS\*  
 -----  
 BR AT 2278 / -61 / 1250. / 113. / 11315. / 1.00 / 0. / 30.  
 2234.15 / 1.90 / \$99999. / \$99999. / 2236.05 / 11.06 / 1.00 / \$99999. \*XS\*  
 -----  
 CUL AT 2262 / -16 / 1250. / 113. / 17330. / 1.00 / 0. / 30.  
 2234.25 / 1.91 / \$99999. / \$99999. / 2236.16 / 11.08 / 1.01 / \$99999. \*XS\*  
 -----

END OF THIS PROFILE

USGS COMPUTER PROGRAM J635 -- VERSION P-84.001 \*\*\* PAGE = 14 RUN DATE=08/29/85 10:31

COMPUTED WSC VALUES FOR: GABRIEL CREEK CULBERT TO UPST LIMIT FIRST IN  
 PROFILE NUMBER 2, DOWNSTREAM COMPUTATIONS

SECID	CUL	BR	77	300	780	UPPER
WSC	2234.25	2234.15	2235.94	2239.63	2245.23	2256.54

COMPUTED WSA VALUES FOR: GABRIEL CREEK CULBERT TO UPST LIMIT FIRST IN  
 PROFILE NUMBER 2, DOWNSTREAM COMPUTATIONS

SECID	300	780
WSA	2239.69	2245.57

4-5