

154

Page 1 Hihivae

FLOW DATA SHEET

Mean Velocity¹ = 6/10ths Depth
 Surface Velocity² = 6/10ths Depth x 2
 Bottom Velocity³ = 6/10ths Depth / 2

2344

BANK
FULL

STREAM EDGE

STREAM EDGE

BANK
FULL

Stream Edge Width (feet)	2	4	6	8	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Stream Edge Depth (feet)	0.1	0.5	0.8	1.1	0.5	1.0	2.0	2.1	2.2	2.2	2.1	2.3	2.0	2.0	2.0	1.9	1.7	1.7
Flow Rate Width (ft/sec)																		
Flow Rate Depth (ft/sec)																		
Substrate/ % Vegetation																		
% Plant Coverage																		
Mean Velocity ¹ (ft/sec)	0	0.09	0.10	0.08	0.25	0.19	0.47	0.46	0.40	0.99	0.82	0.61	1.05	1.13	0.95	0.65	0.65	0.23
Surface Velocity ² (ft/sec)	0	0.08	0.09	0.07	0.34	0.21	0.78	0.65	0.82	0.92	1.09	1.22	1.17	1.18	1.12	0.39	0.33	0.27
Bottom Velocity ³ (ft/sec)	0	0.12	0.06	0.08	0.12	0.05	0.11	0.13	0.37	0.78	0.64	0.18	1.09	0.54	0.46	0.13	0.38	0.13

HYDROLAB

DATE	June 13/2009	WIDTH (feet)																
TIME	10:43 am	TEMPERATURE (°C)	21.31															
OBSERVER	Kanu/Hihivae	DISSOLVED OXYGEN (mg/L)	8.94															
REACH		CONDUCTIVITY (mS/cm)	0.093															
TRANSECT#		pH	8.09															
DAR_CODE		TURBIDITY (NTU)	63.6															
STREAM	Hihivae	TOTAL SUSPENDED SOLIDS (mg/L)																
TRIBUTARY																		

Stream depth (feet)

Transect Line

Stream width (feet)

24 ft

FLOW DATA SHEET

Mean Velocity¹ = 6/10ths Depth
Surface Velocity² = 6/10ths Depth x 2
Bottom Velocity³ = 6/10ths Depth / 2

BANK
FULL

STREAM EDGE

BANK
FULL

STREAM EDGE

Stream Edge Width (feet)	0 ft	4 ft	6 ft	8 ft	10 ft	12 ft	14 ft	16 ft	18 ft	20 ft	22 ft	24 ft							
Stream Edge Depth (feet)																			
Flow Rate Width (ft/sec)																			
Flow Rate Depth (ft/sec)																			
Substrate/ % Vegetation																			
% Plant Coverage																			
Mean Velocity ¹ (ft/sec)	0.1	0.3	-0.8	-0.8	0.8	0.33	0.41	0.89	1.02	1.27	0.22	-0.07							
Surface Velocity ² (ft/sec)	0	-0.61	-6.4	0.14	0.20	0.33	0.42	0.80	0.92	1.10	0.24	0.07							
Bottom Velocity ³ (ft/sec)	0.01	-1.2	-0.12	0.08	-0.12	-0.07	0.42	0.67	0.22	0.34	0.15	-0.14							

DATE	JUNE 13, 2006	HYDROLAB		Transect Line		Stream width (feet)		
TIME	11:36	WIDTH (feet)	24 ft	5 ft				
OBSERVER	00pu	TEMPERATURE (°C)	21.6	21.6				
REACH		DISSOLVED OXYGEN (mg/L)	9.07	0.15				
TRANSECT#		CONDUCTIVITY (mS/cm)	0.095	0.095				
DAR_CODE		pH	8.07	8.09				
STREAM	HILL BLUE	TURBIDITY (NTU)	48.5	3.6				
TRIBUTARY		TOTAL SUSPENDED SOLIDS (mg/L)						

Stream depth (feet)

Stream width (feet)

Mean Velocity¹ = 6/10ths Depth
Surface Velocity² = 6/10ths Depth x 2
Bottom Velocity³ = 6/10ths Depth / 2

D'opia June 13, 2000 cont.

Stream Edge Width (feet)	24'	6'	8'	10'	12'	13'	14'	15'	18'	20'	22'	24'						
Stream Edge Depth (feet)	1"	0.8	0.6	1.1	1.9	1.1	1.2	0.10	1.1	0.9	0.7	0.7						
Flow Rate Width (ft/sec)																		
Flow Rate Depth (ft/sec)																		
Substrate/ % Vegetation																		
% Plant Coverage																		
Mean Velocity ¹ (ft/sec)	-0.9	0.1	-0.7	0.05	0.15	0.6	0.38	0.74	0.93	0.63	0.5	-0.12						
Surface Velocity ² (ft/sec)	-0.7	0.4	0.10	0.5	0.55	0.47	0.53	0.71	1.11	0.68	0.20	0.10						
Bottom Velocity ³ (ft/sec)	-0.11	-0.17	0.1	0.11	0.5	0.25	0.55	1.06	0.87	0.13	-0.16	-0.13						

DATE		HYDROLAB			
June 13/2006					
TIME		WIDTH (feet)			
OBSERVER	Kenny/hihiwai	TEMPERATURE (°C)			
REACH		DISSOLVED OXYGEN (mg/L)			
TRANSECT#		CONDUCTIVITY (mS/cm)			
DAR_CODE		pH			
STREAM	hihiwai	TURBIDITY (NTU)			
TRIBUTARY		TOTAL SUSPENDED SOLIDS (mg/L)			

Stream depth (feet)

Transect Line

Stream width (feet)

Hillside

FLOW DATA SHEET

Mean Velocity¹ = 6/10ths Depth
Surface Velocity² = 6/10ths Depth x 2
Bottom Velocity³ = 6/10ths Depth / 2

BANK FULL

STREAM EDGE

STREAM EDGE

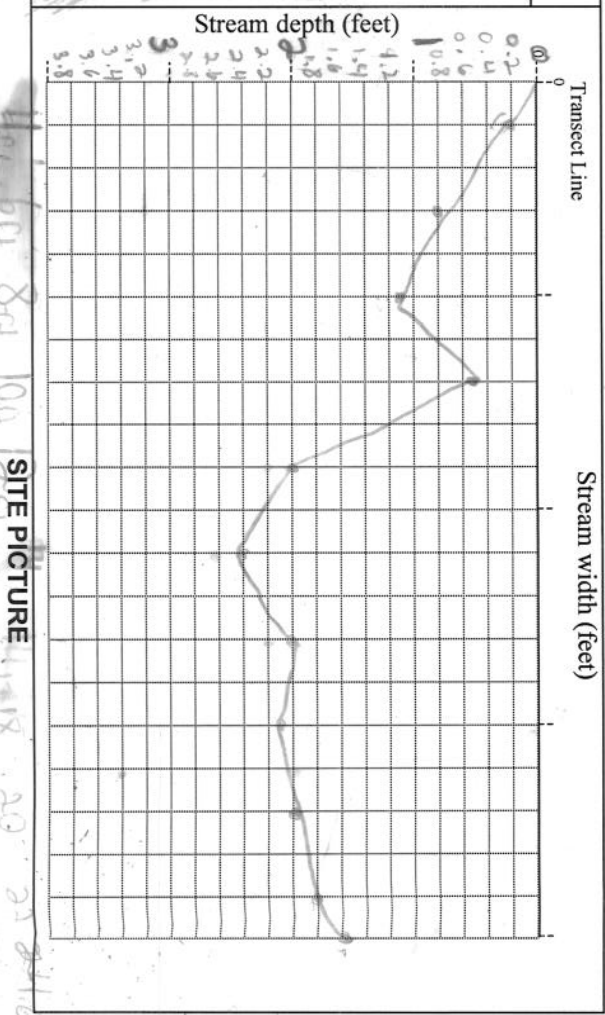
BANK FULL

Stream Edge Width (feet)	4.5	6.5	8.5	10.5	12.5	14.5	16.5	18.5	20.5	22.5	24.5								
Stream Edge Depth (feet)	0.2	0.8	1.1	0.5	2.0	2.4	2.0	2.1	2.0	1.8	1.6								
Flow Rate Width (ft/sec)																			
Flow Rate Depth (ft/sec)																			
Substrate/ % Vegetation																			
% Plant Coverage																			
Mean Velocity ¹ (ft/sec)	0.12	0.05	0.05	0.08	0.19	0.36	1.11	1.09	0.96	0.20	-0.10								
Surface Velocity ² (ft/sec)	0.11	0.00	0.03	0.05	0.56	0.68	0.93	1.31	0.99	0.36	-0.18								
Bottom Velocity ³ (ft/sec)	0.12	0.09	-0.10	0.04	-0.12	0.71	0.80	0.57	0.09	-0.06	-0.09								

DATE 6-13-06

HYDROLAB

TIME 9:27 a.m.	WIDTH (feet)				
OBSERVER H. Veit Robins Grant	TEMPERATURE (°C)	20.70	20.71		
REACH	DISSOLVED OXYGEN (mg/L)	9.41	9.43		
TRANSECT#	CONDUCTIVITY (mS/cm)	0.094	0.092		
DAR_CODE	pH	7.63	7.95		
STREAM	TURBIDITY (NTU)	46.3	315		
TRIBUTARY	TOTAL SUSPENDED SOLIDS (mg/L)				



Mean Velocity¹ = 6/10ths Depth
Surface Velocity² = 6/10ths Depth x 2
Bottom Velocity³ = 6/10ths Depth / 2

Surface Velocity² = 6/10ths Depth x 2
Bottom Velocity³ = 6/10ths Depth / 2

Surface Velocity² = 6/10ths Depth x 2
Bottom Velocity³ = 6/10ths Depth / 2

Surface Velocity² = 6/10ths Depth x 2
Bottom Velocity³ = 6/10ths Depth / 2

STREAM EDGE

STREAM EDGE

STREAM EDGE

BANK
FULL[illegible]

DATE	HYDROLAB			
6-14-06	Strongly turbid Salt			
TIME	WIDTH (feet)			
2:30 P.M.	1 ft	3 ft		
OBSERVER	TEMPERATURE (°C)			
Kearney	24.26	24.12	26.73	
REACH	DISSOLVED OXYGEN (mg/L)			
	8.42	8.38	5.96	
TRANSECT#	CONDUCTIVITY (mS/cm)			
	0.141	0.120	53.2	
DAR_CODE	pH			
	7.54	7.57	8.05	
STREAM	TURBIDITY (NTU)			
Mt. Wa.	30.5	37.7	30.0	
TRIBUTARY	TOTAL SUSPENDED SOLIDS (mg/L)			

Stream depth (feet)

DIVISION OF AQUATIC RESOURCES GRH 2/02

SITE PICTURE