

Quantity Assessment		SEREOLIPI-NDONYOWASIN-MILGIS RIVER										County: SAMBURU		From: 38+000		To: 39+000		pg 9												
Chainage:	38+000	38+200					38+400					38+600					38+800					39+000								
Input Measurements:	Aver. (m) 1 to 4 readings¹⁾ Free Clearance Width for Calculating areas Aver. (m) 1 to 4 readings																													
Bush Clearing	2	2	0	0	0	m	2	2	0	0	0	m	2	2	0	0	0	m	3	3	0	0	0	m	4	4	0	0	0	m
Grass Cutting						m						m						m						m						m
Grubbing	2	2	0	0	0	m	2	2	0	0	0	m	2	2	0	0	0	m	3	3	0	0	0	m	4	4	0	0	0	m
Tree and stump removal	0					m	0					m	0					m	0					m	0					m
¹⁾ Note: The user is free to select the number of reading required according to the site conditions. (min. 1 max. 4 for each section).																														
Cross Section Sketch																														
Measurements for small cut to fill:	Aver. (m) 1 to 4 readings¹⁾ Height of Cut / Differences in Levels for calculating volumes Aver. (m) 1 to 4 readings¹⁾																													
Height of cut < 0.25m	0	0				cm	0					cm	0		0		0	cm	0		0		0	cm	0		0		0	cm
Height of cut > 0.25m	0	0				cm	0					cm	0		0		0	cm	0		0		0	cm	0		0		0	cm
For Reshaping :	Difference in Level between Exist. Camber and Side Drain for calculating volumes																													
Existing Roads	0	0				cm	0	0				cm	0					cm	0					cm	0					cm
Sloping						cm						cm						cm						cm						cm
¹⁾ Note: The user is free to select the number of reading required according to the site conditions. (min. 1 max. 4 for each section).																														
Quantities:	Quantities																			Total this page										
Bush Clearing	2,200	m2		2,200	m2		2,200	m2		2,000	m2		1,800	m2		10,400														
Grass Cutting		m2			m2			m2			m2			m2																
Grubbing	1,800	m2		1,800	m2		1,800	m2		1,600	m2		1,400	m2		8,400														
Tree and stump removal	0	No.		0	No.		0	No.		0	No.		0	No.		0														
	Quantities																			Total this page										
Height of cut < 0.25m	0	m3 (insitu)		0	m3 (insitu)		0	m3 (insitu)		0	m3 (insitu)		0	m3 (insitu)		0														
Height of cut > 0.25m	0	m3 (insitu)		0	m3 (insitu)		0	m3 (insitu)		0	m3 (insitu)		0	m3 (insitu)		0														
Embankment	918	m3 (insitu)		918	m3 (insitu)		918	m3 (insitu)		918	m3 (insitu)		918	m3 (insitu)		4,590														
Drains full re-construction	175	m3 (insitu)		175	m3 (insitu)		175	m3 (insitu)		208	m3 (insitu)		242	m3 (insitu)		974														
Reshaping by Labour		m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)																
By Towed Grader/Labour		m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)																
By Equipment Based Method		m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)																
Data Collected by: Name: _____ Date: _____ Signature: _____																														

Quantity Assessment		SEREOLIPI-NDONYOWASIN-MILGIS RIVER										County: SAMBURU		From: 39+000		To: 40+000		pg 10						
Chainage:	39+000				39+200				39+400				39+600				39+800				40+000			
Input Measurements:	Aver. (m) 1 to 4 readings ^{*)} Free Clearance Width for Calculating areasAver. (m) 1 to 4 readings																							
Bush Clearing	4	4	0	0	0	m	4	4	0	0	0	m	4	4	0	0	0	m	4	4	0	0	0	m
Grass Cutting						m						m						m						m
Grubbing	4	4	0	0	0	m	4	4	0	0	0	m	4	4	0	0	0	m	4	4	0	0	0	m
Tree and stump removal	0					m	0					m	0					m	0					m
*) Note: The user is free to select the number of reading required according to the site conditions. (min. 1 max. 4 for each section).																								
Cross Section Sketch																								
Measurements for small cut to fill:	Aver. (m) 1 to 4 readings ^{*)} Height of Cut / Differences in Levels for calculating volumesAver. (m) 1 to 4 readings ^{*)}																							
Height of cut < 0.25m	0	0				cm	0					cm	0		0		0	cm	0		0		0	cm
Height of cut > 0.25m	0	0				cm	0					cm	0		0		0	cm	0		0		0	cm
For Reshaping :	Difference in Level between Exist. Camber and Side Drain for calculating volumes																							
Existing Roads	0	0				cm	0	0				cm	0					cm	0					cm
Sloping						cm						cm						cm						cm
*) Note: The user is free to select the number of reading required according to the site conditions. (min. 1 max. 4 for each section).																								
Quantities:	Quantities																			Total this page				
Bush Clearing	1,800	m2		1,800	m2		1,800	m2		1,800	m2		1,800	m2		9,000								
Grass Cutting		m2			m2			m2			m2			m2										
Grubbing	1,400	m2		1,400	m2		1,400	m2		1,400	m2		1,400	m2		7,000								
Tree and stump removal	0	No.		0	No.		0	No.		0	No.		0	No.		0								
Quantities																					Total this page			
Height of cut < 0.25m	0	m3 (insitu)		0	m3 (insitu)		0	m3 (insitu)		0	m3 (insitu)		0	m3 (insitu)		0								
Height of cut > 0.25m	0	m3 (insitu)		0	m3 (insitu)		0	m3 (insitu)		0	m3 (insitu)		0	m3 (insitu)		0								
Embankment	918	m3 (insitu)		918	m3 (insitu)		918	m3 (insitu)		918	m3 (insitu)		918	m3 (insitu)		4,590								
Drains full re-construction	175	m3 (insitu)		175	m3 (insitu)		175	m3 (insitu)		175	m3 (insitu)		175	m3 (insitu)		907								
Reshaping by Labour		m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)										
By Towed Grader/Labour		m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)										
By Equipment Based Method		m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)										
Data Collected by: Name: Date:Signature:																								

Quantity Assessment		SEREOLIPI-NDONYOWASIN-MILGIS RIVER										County: SAMBURU		From: 40+000		To: 41+000		pg 11						
Chainage:	40+000	40+200					40+400					40+600					40+800					41+000		
Input Measurements:	Aver. (m) 1 to 4 readings¹⁾ Free Clearance Width for Calculating areas Aver. (m) 1 to 4 readings																							
Bush Clearing	4	4	0	0	0	m	4	4	0	0	0	m	4	4	0	0	0	m	4	4	0	0	0	m
Grass Cutting						m						m						m						m
Grubbing	4	4	0	0	0	m	4	4	0	0	0	m	4	4	0	0	0	m	4	4	0	0	0	m
Tree and stump removal	0					m	0					m	0					m	0					m
¹⁾ Note: The user is free to select the number of reading required according to the site conditions. (min. 1 max. 4 for each section).																								
Cross Section Sketch																								
Measurements for small cut to fill:	Aver. (m) 1 to 4 readings¹⁾ Height of Cut / Differences in Levels for calculating volumes Aver. (m) 1 to 4 readings¹⁾																							
Height of cut < 0.25m	0	0				cm	0					cm	0		0		0	cm	0		0		0	cm
Height of cut > 0.25m	0	0				cm	0					cm	0		0		0	cm	0		0		0	cm
For Reshaping :	Difference in Level between Exist. Camber and Side Drain for calculating volumes																							
Existing Roads	0	0				cm	0	0				cm	0					cm	0					cm
Sloping						cm						cm						cm						cm
¹⁾ Note: The user is free to select the number of reading required according to the site conditions. (min. 1 max. 4 for each section).																								
Quantities:	Quantities																			Total this page				
Bush Clearing	1,800	m2		1,800	m2		1,800	m2		1,800	m2		1,800	m2		9,000								
Grass Cutting		m2			m2			m2			m2			m2										
Grubbing	1,400	m2		1,400	m2		1,400	m2		1,400	m2		1,400	m2		7,000								
Tree and stump removal	0	No.		0	No.		0	No.		0	No.		0	No.		0								
	Quantities																			Total this page				
Height of cut < 0.25m	0	m3 (insitu)		0	m3 (insitu)		0	m3 (insitu)		0	m3 (insitu)		0	m3 (insitu)		0								
Height of cut > 0.25m	0	m3 (insitu)		0	m3 (insitu)		0	m3 (insitu)		0	m3 (insitu)		0	m3 (insitu)		0								
Embankment	918	m3 (insitu)		378	m3 (insitu)		378	m3 (insitu)		378	m3 (insitu)		378	m3 (insitu)		2,430								
Drains full re-construction	242	m3 (insitu)		242	m3 (insitu)		242	m3 (insitu)		242	m3 (insitu)		242	m3 (insitu)		1,208								
Reshaping by Labour		m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)										
By Towed Grader/Labour		m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)										
By Equipment Based Method		m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)										
Data Collected by: Name: Date: Signature:																								

Quantity Assessment		SEREOLIPI-NDONYOWASIN-MILGIS RIVER										County: SAMBURU		From: 41+000		To: 42+000		pg 12											
Chainage:	41+000				41+200				41+400				41+600				41+800				42+000								
Input Measurements:	Free Clearance Width for Calculating areas																												
	Aver. (m) 1 to 4 readings ^{*)}																								Aver. (m) 1 to 4 readings				
Bush Clearing	4	4	0	0	0	m	4	4	0	0	0	m	4	4	0	0	0	m	4	4	0	0	0	m					
Grass Cutting						m						m						m						m					
Grubbing	4	4	0	0	0	m	4	4	0	0	0	m	4	4	0	0	0	m	4	4	0	0	0	m					
Tree and stump removal	0					m	0					m	0					m	0					m					
*) Note: The user is free to select the number of reading required according to the site conditions. (min. 1 max. 4 for each section).																													
Cross Section Sketch																													
Measurements for small cut to fill:	Height of Cut / Differences in Levels for calculating volumes																												
	Aver. (m) 1 to 4 readings ^{*)}																								Aver. (m) 1 to 4 readings ^{*)}				
Height of cut < 0.25m	0	0				cm	0					cm	0		0		0	cm	0		0		0	cm					
Height of cut > 0.25m	0	0				cm	0					cm	0		0		0	cm	0		0		0	cm					
For Reshaping :	Difference in Level between Exist. Camber and Side Drain for calculating volumes																												
Existing Roads	0	0				cm	0	0				cm	0					cm	0					cm					
Sloping						cm						cm						cm						cm					
*) Note: The user is free to select the number of reading required according to the site conditions. (min. 1 max. 4 for each section).																													
Quantities:	Quantities																			Total this page									
Bush Clearing	1,800	m2		1,800	m2		1,800	m2		1,800	m2		1,800	m2		1,800	m2		9,000										
Grass Cutting		m2			m2			m2			m2			m2			m2												
Grubbing	1,400	m2		1,400	m2		1,400	m2		1,400	m2		1,400	m2		1,400	m2		7,000										
Tree and stump removal	0	No.		0	No.		0	No.		0	No.		0	No.		0	No.		0										
	Quantities																			Total this page									
Height of cut < 0.25m	0	m3 (insitu)		0	m3 (insitu)		0	m3 (insitu)		0	m3 (insitu)		0	m3 (insitu)		0	m3 (insitu)		0										
Height of cut > 0.25m	0	m3 (insitu)		0	m3 (insitu)		0	m3 (insitu)		0	m3 (insitu)		0	m3 (insitu)		0	m3 (insitu)		0										
Embankment	378	m3 (insitu)		378	m3 (insitu)		378	m3 (insitu)		378	m3 (insitu)		378	m3 (insitu)		378	m3 (insitu)		1,134										
Drains full re-construction	242	m3 (insitu)		242	m3 (insitu)		242	m3 (insitu)		242	m3 (insitu)		242	m3 (insitu)		242	m3 (insitu)		1,208										
Reshaping by Labour		m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)												
By Towed Grader/Labour		m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)												
By Equipment Based Method		m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)												
Data Collected by: Name: Date:Signature:																													

Quantity Assessment		SEREOLIPI-NDONYOWASIN-MILGIS RIVER										County: SAMBURU		From: 42+000		To: 43+000		pg 13						
Chainage:	42+000				42+200				42+400				42+600				42+800				43+000			
Input Measurements:	Aver. (m) 1 to 4 readings ^{*)} Free Clearance Width for Calculating areasAver. (m) 1 to 4 readings																							
Bush Clearing	4	4	0	0	0	m	4	4	0	0	0	m	4	4	0	0	0	m	4	4	0	0	0	m
Grass Cutting						m						m						m						m
Grubbing	4	4	0	0	0	m	4	4	0	0	0	m	4	4	0	0	0	m	4	4	0	0	0	m
Tree and stump removal	0					m	0					m	0					m	0					m
*) Note: The user is free to select the number of reading required according to the site conditions. (min. 1 max. 4 for each section).																								
Cross Section Sketch																								
Measurements for small cut to fill:	Aver. (m) 1 to 4 readings ^{*)} Height of Cut / Differences in Levels for calculating volumesAver. (m) 1 to 4 readings ^{*)}																							
Height of cut < 0.25m	0	0				cm	0					cm	0		0		0	cm	0		0		0	cm
Height of cut > 0.25m	0	0				cm	0					cm	0		0		0	cm	0		0		0	cm
For Reshaping :	Difference in Level between Exist. Camber and Side Drain for calculating volumes																							
Existing Roads	0	0				cm	0	0				cm	0					cm	0					cm
Sloping						cm						cm						cm						cm
*) Note: The user is free to select the number of reading required according to the site conditions. (min. 1 max. 4 for each section).																								
Quantities:	Quantities																			Total this page				
Bush Clearing	1,800	m2		1,800	m2		1,800	m2		1,800	m2		1,800	m2		1,800	m2		9,000					
Grass Cutting		m2			m2			m2			m2			m2			m2							
Grubbing	1,400	m2		1,400	m2		1,400	m2		1,400	m2		1,400	m2		1,400	m2		7,000					
Tree and stump removal	0	No.		0	No.		0	No.		0	No.		0	No.		0	No.		0					
Quantities																					Total this page			
Height of cut < 0.25m	0	m3 (insitu)		0	m3 (insitu)		0	m3 (insitu)		0	m3 (insitu)		0	m3 (insitu)		0	m3 (insitu)		0					
Height of cut > 0.25m	0	m3 (insitu)		0	m3 (insitu)		0	m3 (insitu)		0	m3 (insitu)		0	m3 (insitu)		0	m3 (insitu)		0					
Embankment		m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)							
Drains full re-construction	175	m3 (insitu)		108	m3 (insitu)		242	m3 (insitu)		108	m3 (insitu)		108	m3 (insitu)		108	m3 (insitu)		740					
Reshaping by Labour		m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)							
By Towed Grader/Labour		m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)							
By Equipment Based Method		m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)							
Data Collected by: Name: Date:Signature:																								

DETAILED IMPROVEMENT PLAN																																	Page: 14										
Road Name: SEREOLIPi-NDONYOWASIN-MILGIS RIVER																County: SAMBURU				From: 43+000				To: 44+000																			
Chain-age	(kilometres)	43 + 0				43 + 100				43 + 200				43 + 300				43 + 400				43 + 500				43 + 600				43 + 700				43 + 800				43 + 900				44 + 0	
	(metres)																																										
Road form.	Subgrade	RG	RG	RG	RG	RG	RG	RG	RG	RG	RG	RG	RG	RG	RG	RG	RG	RG	RG	RG	RG	RG	RG	RG	RG	RG	RG	RG	RG	RG	RG	RG	RG	RG	RG								
	Cross section	A	A	A	A	A	A	A	A	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E								
Earth-works	Method: RES, ETL or FILL	RES	RES	RES	RES	RES	RES	RES	RES	RES	RES	RES	RES	RES	RES	RES	RES	RES	RES	RES	RES	RES	RES	RES	RES	RES	RES	RES	RES	RES	RES	RES	RES	RES	RES								
	Choice of reshaping: L, T or E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E								
	Volume of ETL or Fill (m3/m)																																										
Gra-vel	Total	Thickness (cm,comp.)																																									
		Source (quarry No.)																																									
Longitudinal gradient (in %)		-4				-1				-1				1				2				3				5				1				2			1						
Mitre drains	Total	Number left =					1																																				
	1	Number right =																																									
Catch water	Total	Length of drain left =																																									
	0	Length of drain right =																																									
Culverts	N Ex	Chainage (m) = New line																																									
			= Existing line																																								
		CD	= Cross drainage																																								
			= Access culvert/ drift																																								
	L/R	= Left/ right																																									
		Length (m)	Ø 450mm																																								
			Ø 600mm																																								
	Ø 900mm																																										
Ramp	Earth fill (m3)																																										
	H. Concrete (m3)																																										
Head-walls	Inlet (Material/Type)																																										
	Outlet (Material/Type)																																										
Scour Checks	HC	= Material this sheet/ Spacing left (m) =																																									
	10	Spacing right (m) = =Total No. this sheet																																									
Additional Instruction as per Reference																																											

Quantity Assessment		SEREOLIPI-NDONYOWASIN-MILGIS RIVER										County: SAMBURU		From: 43+000		To: 44+000		pg 14							
Chainage:	43+000				43+200				43+400				43+600				43+800				44+000				
Input Measurements:	Free Clearance Width for Calculating areas																								
	Aver. (m) 1 to 4 readings ^{*)}																				Aver. (m) 1 to 4 readings				
Bush Clearing	4	4	0	0	0	m	4	4	0	0	0	m	4	4	0	0	0	m	4	4	0	0	0	m	
Grass Cutting						m						m						m						m	
Grubbing	4	4	0	0	0	m	4	4	0	0	0	m	4	4	0	0	0	m	4	4	0	0	0	m	
Tree and stump removal	0					m	0					m	0					m	0					m	
*) Note: The user is free to select the number of reading required according to the site conditions. (min. 1 max. 4 for each section).																									
Cross Section Sketch																									
Measurements for small cut to fill:	Height of Cut / Differences in Levels for calculating volumes																								
	Aver. (m) 1 to 4 readings ^{*)}																				Aver. (m) 1 to 4 readings ^{*)}				
Height of cut < 0.25m	0	0				cm	0					cm	0		0		0	cm	0		0		0	cm	
Height of cut > 0.25m	0	0				cm	0					cm	0		0		0	cm	0		0		0	cm	
For Reshaping :	Difference in Level between Exist. Camber and Side Drain for calculating volumes																								
Existing Roads	0	0				cm	0	0				cm	0					cm	0					cm	
Sloping						cm						cm						cm						cm	
*) Note: The user is free to select the number of reading required according to the site conditions. (min. 1 max. 4 for each section).																									
Quantities:	Quantities																			Total this page					
Bush Clearing	1,800	m2		1,800	m2		1,800	m2		1,800	m2		1,800	m2		9,000									
Grass Cutting		m2			m2			m2			m2			m2											
Grubbing	1,400	m2		1,400	m2		1,400	m2		1,400	m2		1,400	m2		7,000									
Tree and stump removal	0	No.		0	No.		0	No.		0	No.		0	No.		0									
Quantities																					Total this page				
Height of cut < 0.25m	0	m3 (insitu)		0	m3 (insitu)		0	m3 (insitu)		0	m3 (insitu)		0	m3 (insitu)		0									
Height of cut > 0.25m	0	m3 (insitu)		0	m3 (insitu)		0	m3 (insitu)		0	m3 (insitu)		0	m3 (insitu)		0									
Embankment		m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)											
Drains full re-construction	242	m3 (insitu)		242	m3 (insitu)		242	m3 (insitu)		242	m3 (insitu)		242	m3 (insitu)		1,208									
Reshaping by Labour		m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)											
By Towed Grader/Labour		m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)											
By Equipment Based Method		m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)											
Data Collected by: Name: Date:Signature:																									

Quantity Assessment		SEREOLIPI-NDONYOWASIN-MILGIS RIVER										County: SAMBURU		From: 44+000		To: 45+000		pg 15						
Chainage:	44+000				44+200				44+400				44+600				44+800				45+000			
Input Measurements:	Aver. (m) 1 to 4 readings^{*)} Free Clearance Width for Calculating areas Aver. (m) 1 to 4 readings																							
Bush Clearing	4	4	0	0	0	m	4	4	0	0	0	m	4	4	0	0	0	m	4	4	0	0	0	m
Grass Cutting						m						m						m						m
Grubbing	4	4	0	0	0	m	4	4	0	0	0	m	4	4	0	0	0	m	4	4	0	0	0	m
Tree and stump removal	0					m	0					m	0					m	0					m
*) Note: The user is free to select the number of reading required according to the site conditions. (min. 1 max. 4 for each section).																								
Cross Section Sketch																								
Measurements for small cut to fill:	Aver. (m) 1 to 4 readings^{*)} Height of Cut / Differences in Levels for calculating volumes Aver. (m) 1 to 4 readings^{*)}																							
Height of cut < 0.25m	0	0				cm	0					cm	0		0		0	cm	0		0		0	cm
Height of cut > 0.25m	0	0				cm	0					cm	0		0		0	cm	0		0		0	cm
For Reshaping :	Difference in Level between Exist. Camber and Side Drain for calculating volumes																							
Existing Roads	0	0				cm	0	0				cm	0					cm	0					cm
Sloping						cm						cm						cm						cm
*) Note: The user is free to select the number of reading required according to the site conditions. (min. 1 max. 4 for each section).																								
Quantities:	Quantities																			Total this page				
Bush Clearing	1,800	m2		1,800	m2		1,800	m2		1,800	m2		1,800	m2		9,000								
Grass Cutting		m2			m2			m2			m2			m2										
Grubbing	1,400	m2		1,400	m2		1,400	m2		1,400	m2		1,400	m2		7,000								
Tree and stump removal	0	No.		0	No.		0	No.		0	No.		0	No.		0								
	Quantities																			Total this page				
Height of cut < 0.25m	0	m3 (insitu)		0	m3 (insitu)		0	m3 (insitu)		0	m3 (insitu)		0	m3 (insitu)		0								
Height of cut > 0.25m	0	m3 (insitu)		0	m3 (insitu)		0	m3 (insitu)		0	m3 (insitu)		0	m3 (insitu)		0								
Embankment		m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)										
Drains full re-construction	242	m3 (insitu)		242	m3 (insitu)		175	m3 (insitu)		175	m3 (insitu)		242	m3 (insitu)		1,074								
Reshaping by Labour		m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)										
By Towed Grader/Labour		m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)										
By Equipment Based Method		m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)										
Data Collected by: Name: _____ Date: _____ Signature: _____																								