



100

Amatola Water Amanzi - Water is life
Scientific Services Department
Preliminary Water Quality Report

Report Number: 69388

Physical Address

Amatola Water
Scientific Services
Nahoon Dam Complex

Postal Address

Private Bag X2
East London
5247

Samples Submitted By: Ntombi Tshicilela

Makana Municipality
P.O.BOX 176
Grahamstown
6139

Reported Date: 15/05/2015

NAI RESULTS

Enquiries: Mrs. N. Jiya

Tel No: (043) 709 3769

Fax No: (043) 745 9044



101

Amatola Water Amanzi - *Water is life*
Scientific Services Department
Preliminary Water Quality Report

Report Number: 69388

Test List: EFFLUENT
Scheme: Mayfield Effluent
Received Date: 06/05/2015

Sample Number	127546		
Sample Description	Mayfield Effluent		
Analysis Start Date	06/05/2015		
Analysis End Date			
Comment			
	Test	Units	Method No
	Ammonia as N	mg/l	C32
	Chemical Oxygen Demand - DR2800	mg/l	C50
	Chlorine	mg/l	
	E coli waste water(colilert)	CFU/100ml	M01
	Nitrite as N	mg/l	C39
	Solids - Total suspended	mg/l	C46

Key: (s) - Subcontracted | (T) - New result | (TT) - Result updated



102

Amatola Water Amanzi - *Water is life*

Scientific Services Department

Preliminary Water Quality Report

Report Number: 69388

Test List: FINAL_MK

Scheme: Alicedale Community Tap WTW

Received Date: 13/05/2015

Sample Number	127893		
Sample Description	Alicedale Community Tap WTW		
Analysis Start Date	13/05/2015		
Analysis End Date			
Comment			
	Test	Units	Method No
Faecal coliforms count Member Filtration	CFU/100ml	M05	1
Total coliform bacteria Membrane Filtration	CFU/100ml	M04	4

Test List: FINAL_MK

Scheme: Beaufort Str Police Station

Received Date: 06/05/2015

Sample Number	127518		
Sample Description	Beaufort Str Police Station		
Analysis Start Date	06/05/2015		
Analysis End Date			
Comment			
	Test	Units	Method No
Ammonia as N	mg/l	C32	0
Chloride as Cl	mg/l	C34	54.01
Chlorine	mg/l		0.13
EC - Autotitrator	mS/m	C29	23.8
Faecal coliforms count Member Filtration	CFU/100ml	M05	0
Fluoride as F	mg/l	C35	0
Heterotrophic plate count @35°C	CFU/1ml	M03	19
Hardness - Autotitrator		C30	7.89
pH @ Water Treatment Works (Plants)			9.1
Sulphate as SO4	mg/l	C33	7.64
Total coliform bacteria Membrane Filtration	CFU/100ml	M04	1
Total Solids - dissolved	mg/l		119
Turbidity	NTU	C16	1.12
Turbidity @ WTW	NTU		1.21

Key: (s) - Subcontracted | (T) - New result | (TT) - Result updated



Amatola Water Amanzi - *Water is life*
Scientific Services Department
 Preliminary Water Quality Report

Report Number: 69388

Test List: FINAL_MK
 Scheme: Extension 7 Clinic
 Received Date: 06/05/2015

Sample Number	127515		
Sample Description	Extension 7 Clinic		
Analysis Start Date	06/05/2015		
Analysis End Date			
Comment			
	Test	Units	Method No
	Ammonia as N	mg/l	C32
	Chloride as Cl	mg/l	C34
	Chlorine	mg/l	
	EC - Autotitrator	mS/m	C29
	Faecal coliforms count Member Filtration	CFU/100ml	M05
	Fluoride as F	mg/l	C35
	Heterotrophic plate count @35°C	CFU/1ml	M03
	pH - Autotitrator	-	C30
	pH @ Water Treatment Works (Plants)	-	
	Sulphate as SO4	mg/l	C33
	Total coliform bacteria Membrane Filtration	CFU/100ml	M04
	Total Solids - dissolved	mg/l	
	Turbidity	NTU	C16
	Turbidity @ WTW	NTU	

Test List: FINAL_MK
 Scheme: Indoor Sports Centre
 Received Date: 06/05/2015

Sample Number	127514		
Sample Description	Indoor Sports Centre		
Analysis Start Date	06/05/2015		
Analysis End Date			
Comment			
	Test	Units	Method No
	Ammonia as N	mg/l	C32
	Chloride as Cl	mg/l	C34
	Chlorine	mg/l	
	EC - Autotitrator	mS/m	C29
	Faecal coliforms count Member Filtration	CFU/100ml	M05
	Fluoride as F	mg/l	C35
	Heterotrophic plate count @35°C	CFU/1ml	M03
	pH - Autotitrator	-	C30
	pH @ Water Treatment Works (Plants)	-	
	Sulphate as SO4	mg/l	C33
	Total coliform bacteria Membrane Filtration	CFU/100ml	M04
	Total Solids - dissolved	mg/l	
	Turbidity	NTU	C16
	Turbidity @ WTW	NTU	

Key: (s) - Subcontracted | (T) - New result | (TT) - Result updated



104

Amatola Water Amanzi - *Water is life*

Scientific Services Department

Preliminary Water Quality Report

Report Number: 69388

Test List: FINAL_MK

Scheme: J / Kleinshans Final WTW

Received Date: 06/05/2015

Sample Number			127544
Sample Description			J / Kleinshans Final WTW
Analysis Start Date			06/05/2015
Analysis End Date			
Comment			
Test	Units	Method No	
Ammonia as N	mg/l	C32	0
Chloride as Cl	mg/l	C34	89.36
Chlorine	mg/l		2.99
EC - Autotitrator	mS/m	C29	77.5
Faecal coliforms count Member Filtration	CFU/100ml	M05	0
Fluoride as F	mg/l	C35	0.4
Heterotrophic plate count @35°C	CFU/1ml	M03	3
pH - Autotitrator	-	C30	8.13
pH @ Water Treatment Works (Plants)	-		8.74
Sulphate as SO4	mg/l	C33	56.02
Total coliform bacteria Membrane Filtration	CFU/100ml	M04	0
Total Solids - dissolved	mg/l		387.5
Turbidity	NTU	C16	2.94
Turbidity @ WTW	NTU		3.6

Test List: FINAL_MK

Scheme: J / Kleinshans Final WTW

Received Date: 13/05/2015

Sample Number			127894
Sample Description			J / Kleinshans Final WTW
Analysis Start Date			13/05/2015
Analysis End Date			
Comment			
Test	Units	Method No	
Faecal coliforms count Member Filtration	CFU/100ml	M05	1
Total coliform bacteria Membrane Filtration	CFU/100ml	M04	66

Key: (s) - Subcontracted | (T) - New result | (TT) - Result updated



Amatola Water Amanzi - Water is life
Scientific Services Department
 Preliminary Water Quality Report

Report Number: 69388

Test List: FINAL_MK

Scheme: J Street Community Tap

Received Date: 06/05/2015

Sample Number	127513		
Sample Description	J Street Community Tap		
Analysis Start Date	06/05/2015		
Analysis End Date			
Comment			
	Test	Units	Method No
	Ammonia as N	mg/l	C32
			0
	Chloride as Cl	mg/l	C34
			88.27
	Chlorine	mg/l	
			1.2
	EC - Autotitrator	mS/m	C29
			77.47
	Faecal coliforms count Member Filtration	CFU/100ml	M05
			0
	Fluoride as F	mg/l	C35
			0.43
	Heterotrophic plate count @35°C	CFU/1ml	M03
			1001
	pH - Autotitrator	-	C30
			7.88
	pH @ Water Treatment Works (Plants)	-	
			9.75
	Sulphate as SO4	mg/l	C33
			56.19
	Total coliform bacteria Membrane Filtration	CFU/100ml	M04
			0
	Total Solids - dissolved	mg/l	
			387.35
	Turbidity	NTU	C16
			24.2
	Turbidity @ WTW	NTU	
			9.99

Test List: FINAL_MK

Scheme: Nonzwakazi Community Tap in Alicedale

Received Date: 06/05/2015

Sample Number	127512		
Sample Description	Nonzwakazi Community Tap in		
Analysis Start Date	06/05/2015		
Analysis End Date			
Comment			
	Test	Units	Method No
	Ammonia as N	mg/l	C32
			0
	Chloride as Cl	mg/l	C34
			163.29
	Chlorine	mg/l	
			0.18
	EC - Autotitrator	mS/m	C29
			70.87
	Faecal coliforms count Member Filtration	CFU/100ml	M05
			0
	Fluoride as F	mg/l	C35
			0.07
	Heterotrophic plate count @35°C	CFU/1ml	M03
			30
	pH - Autotitrator	-	C30
			7.72
	pH @ Water Treatment Works (Plants)	-	
			7.97
	Sulphate as SO4	mg/l	C33
			19.22
	Total coliform bacteria Membrane Filtration	CFU/100ml	M04
			0
	Total Solids - dissolved	mg/l	
			354.37
	Turbidity	NTU	C16
			4.3
	Turbidity @ WTW	NTU	
			0.51

Key: (s) - Subcontracted | (T) - New result | (TT) - Result updated



Amatola Water Amanzi - *Water is life*
Scientific Services Department
 Preliminary Water Quality Report

Report Number: 69388

Test List: FINAL_MK

Scheme: Riebeeck East Network Resevior

Received Date: 06/05/2015

Sample Number	127510		
Sample Description	Riebeeck East Network Resevior		
Analysis Start Date	06/05/2015		
Analysis End Date			
Comment			
Test	Units	Method No	
Ammonia as N	mg/l	C32	0
Chloride as Cl	mg/l	C34	112.23
Chlorine	mg/l		1.14
EC - Autotitrator	mS/m	C29	50.98
Fluoride as F	mg/l	C35	0.08
Heterotrophic plate count @35°C	CFU/1ml	M03	0
pH - Autotitrator	-	C30	6.9
pH @ Water Treatment Works (Plants)	-		7.73
Sulphate as SO4	mg/l	C33	16.76
Total coliform bacteria Membrane Filtration	CFU/100ml	M04	0
Total Solids - dissolved	mg/l		254.89
Turbidity	NTU	C16	1.75
Turbidity @ WTW	NTU		1.9

Test List: FINAL_MK

Scheme: Waainek WTW Final

Received Date: 06/05/2015

Sample Number	127541		
Sample Description	Waainek WTW Final		
Analysis Start Date	06/05/2015		
Analysis End Date			
Comment			
Test	Units	Method No	
Ammonia as N	mg/l	C32	0
Chloride as Cl	mg/l	C34	51.18
Chlorine	mg/l		1.03
EC - Autotitrator	mS/m	C29	20.21
Faecal coliforms count Member Filtration	CFU/100ml	M05	0
Fluoride as F	mg/l	C35	0
Heterotrophic plate count @35°C	CFU/1ml	M03	1
pH - Autotitrator	-	C30	6.27
pH @ Water Treatment Works (Plants)	-		6.32
Sulphate as SO4	mg/l	C33	7.21
Total coliform bacteria Membrane Filtration	CFU/100ml	M04	0
Total Solids - dissolved	mg/l		101.05
Turbidity	NTU	C16	0.82
Turbidity @ WTW	NTU		0.77

Key: (s) - Subcontracted | (T) - New result | (TT) - Result updated



Amatola Water Amanzi - *Water is life*
Scientific Services Department
 Preliminary Water Quality Report

Report Number: 69388

Test List: FINAL_MK
 Scheme: Waainek WTW Final
 Received Date: 13/05/2015

Sample Number	127891		
Sample Description	Waainek WTW Final		
Analysis Start Date	13/05/2015		
Analysis End Date			
Comment			
	Test	Units	Method No
	Faecal coliforms count Member Filtration	CFU/100ml	M05
	Total coliform bacteria Membrane Filtration	CFU/100ml	M04
			0
			0

Key: (s) - Subcontracted | (T) - New result | (TT) - Result updated





Amatola Water Amanzi - *Water is life*
Scientific Services Department
 Preliminary Water Quality Report

Report Number: 69388

Test List: RAW_AUD_MK

Scheme: J / Kleinshans Raw WTW

Received Date: 06/05/2015

Sample Number	127545		
Sample Description	J / Kleinshans Raw WTW		
Analysis Start Date	07/05/2015		
Analysis End Date			
Comment			
	Test	Units	Method No
	Ammonia as N	mg/l	C32
	Chloride as Cl	mg/l	C34
	EC - Autotitrator	mS/m	C15
	Fluoride as F	mg/l	C35
	pH - Autotitrator	-	C14
	Sulphate as SO4	mg/l	C33
	Total Solids - dissolved	mg/l	
	Turbidity	NTU	C16

Test List: RAW_AUD_MK

Scheme: J / Kleinshans Raw WTW

Received Date: 13/05/2015

Sample Number	127895		
Sample Description	J / Kleinshans Raw WTW		
Analysis Start Date	13/05/2015		
Analysis End Date			
Comment			
	Test	Units	Method No
	E coli waste water(colient)	CFU/100ml	M01

Key: (s) - Subcontracted | (T) - New result | (TT) - Result updated



109

Amatola Water Amanzi - Water is life
Scientific Services Department
Preliminary Water Quality Report

Report Number: 69388

Test List: RAW_AUD_MK
Scheme: Waainek WTW Raw
Received Date: 06/05/2015

Sample Number	127542			
Sample Description	Waainek WTW Raw			
Analysis Start Date	06/05/2015			
Analysis End Date				
Comment				
	Test	Units	Method No	
	Ammonia as N	mg/l	C32	0
	Chloride as Cl	mg/l	C34	45.43
	E coli waste water(coliert)	CFU/100ml	M01	10
	EC - Autotitrator	mS/m	C15	18.31
	Fluoride as F	mg/l	C35	0
	pH - Autotitrator	-	C14	7.92
	pH @ Water Treatment Works (Plants)	-		6.33
	Sulphate as SO4	mg/l	C33	7.9
	Total Solids - dissolved	mg/l		91.6
	Turbidity	NTU	C16	16.4
	Turbidity @ WTW	NTU		9.99

Key: (s) - Subcontracted | (T) - New result | (TT) - Result updated