ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

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MS4 Name: City Of Nogales
AZPDES: AZSM65849
Permit Type: Small MS4 Phase II
Reporting Period: 07/01/2018 to 06/30/2019
Report Frequency: ANNUAL

DMR Results Report

ANALYTICAL MONITORING INFO

OUTFALL NAME	SEASON NAME	PARAMETER	LIMITS		RESULTS						NODI Description
			SWQS	UNITS	DATE	SAMPLE VALUE	UNITS	HARDNESS	pH	TEMP	
Alex 1	Winter Wet	TOTAL RESIDUAL CHLORINE (MAX)	.019	MG/L	03/20/2019		MG/L				Insufficient Flow for sampling
Alex 1	Winter Wet	AMMONIA NITROGEN		MG/L	03/20/2019		MG/L				Insufficient Flow for sampling
Alex 1	Winter Wet	DISSOLVED COPPER		MG/L	03/20/2019		MG/L				Insufficient Flow for sampling
Alex 1	Winter Wet	E COLI COLONY (CFU)	575	CFU	03/20/2019		CFU				Insufficient Flow for sampling
Alex 1	Winter Wet	DISSOLVED COPPER		MG/L	02/07/2019		MG/L				Insufficient Flow for sampling
Alex 1	Winter Wet	AMMONIA NITROGEN		MG/L	02/07/2019		MG/L				Insufficient Flow for sampling
Alex 1	Winter Wet	E COLI COLONY (CFU)	575	CFU	02/07/2019		CFU				Insufficient Flow for sampling
Alex 1	Winter Wet	TOTAL RESIDUAL CHLORINE (MAX)	.019	MG/L	02/07/2019		MG/L				Insufficient Flow for sampling
Alex 1	Summer Wet	DISSOLVED COPPER		MG/L	08/23/2018		MG/L				Insufficient Flow for sampling

OUTFALL NAME	SEASON NAME	PARAMETER	LIMITS		RESULTS						NODI Description
			SWQS	UNITS	DATE	SAMPLE VALUE	UNITS	HARDNESS	pH	TEMP	
Alex 1	Summer Wet	AMMONIA NITROGEN		MG/L	08/23/2018		MG/L				Insufficient Flow for sampling
Alex 1	Summer Wet	TOTAL RESIDUAL CHLORINE (MAX)	.019	MG/L	08/23/2018		MG/L				Insufficient Flow for sampling
Alex 1	Summer Wet	E COLI COLONY (CFU)	575	CFU	08/23/2018		CFU				Insufficient Flow for sampling
Alex 1	Summer Wet	DISSOLVED COPPER		MG/L	08/14/2018		MG/L				Insufficient Flow for sampling
Alex 1	Summer Wet	TOTAL RESIDUAL CHLORINE (MAX)	.019	MG/L	08/14/2018		MG/L				Insufficient Flow for sampling
Alex 1	Summer Wet	E COLI COLONY (CFU)	575	CFU	08/14/2018		CFU				Insufficient Flow for sampling
Alex 1	Summer Wet	AMMONIA NITROGEN		MG/L	08/14/2018		MG/L				Insufficient Flow for sampling
Baffert 1	Winter Wet	AMMONIA NITROGEN		MG/L	03/13/2019		MG/L				Insufficient Flow for sampling
Baffert 1	Winter Wet	DISSOLVED COPPER		MG/L	03/13/2019		MG/L				Insufficient Flow for sampling
Baffert 1	Winter Wet	E COLI COLONY (CFU)	575	CFU	03/13/2019		CFU				Insufficient Flow for sampling
Baffert 1	Winter Wet	TOTAL RESIDUAL CHLORINE (MAX)	.019	MG/L	03/13/2019		MG/L				Insufficient Flow for sampling
Baffert 1	Winter Wet	AMMONIA NITROGEN		MG/L	02/07/2019		MG/L				Insufficient Flow for sampling
Baffert 1	Winter Wet	TOTAL RESIDUAL CHLORINE (MAX)	.019	MG/L	02/07/2019		MG/L				Insufficient Flow for sampling
Baffert 1	Winter Wet	E COLI COLONY (CFU)	575	CFU	02/07/2019		CFU				Insufficient Flow for sampling
Baffert 1	Winter Wet	DISSOLVED COPPER		MG/L	02/07/2019		MG/L				Insufficient Flow for sampling
Baffert 1	Summer Wet	TOTAL RESIDUAL CHLORINE (MAX)	.019	MG/L	08/23/2018		MG/L				Insufficient Flow for sampling
Baffert 1	Summer Wet	E COLI COLONY (CFU)	575	CFU	08/23/2018		CFU				Insufficient Flow for sampling
Baffert 1	Summer Wet	DISSOLVED COPPER		MG/L	08/23/2018		MG/L				Insufficient Flow for sampling
Baffert 1	Summer Wet	AMMONIA NITROGEN		MG/L	08/23/2018		MG/L				Insufficient Flow for sampling
Baffert 1	Summer Wet	AMMONIA NITROGEN		MG/L	08/14/2018		MG/L				Insufficient Flow for sampling
Baffert 1	Summer Wet	TOTAL RESIDUAL CHLORINE (MAX)	.019	MG/L	08/14/2018		MG/L				Insufficient Flow for sampling
Baffert 1	Summer Wet	E COLI COLONY (CFU)	575	CFU	08/14/2018		CFU				Insufficient Flow for sampling
Baffert 1	Summer Wet	DISSOLVED COPPER		MG/L	08/14/2018		MG/L				Insufficient Flow for sampling
Madison 1	Winter Wet	AMMONIA NITROGEN		MG/L	05/31/2019		MG/L				Insufficient Flow for sampling
Madison 1	Winter Wet	DISSOLVED COPPER		MG/L	05/31/2019		MG/L				Insufficient Flow for sampling
Madison 1	Winter Wet	E COLI COLONY (CFU)	575	CFU	05/31/2019		CFU				Insufficient Flow for sampling

OUTFALL NAME	SEASON NAME	PARAMETER	LIMITS		RESULTS						NODI Description
			SWQS	UNITS	DATE	SAMPLE VALUE	UNITS	HARDNESS	pH	TEMP	
Madison 1	Winter Wet	TOTAL RESIDUAL CHLORINE (MAX)	.019	MG/L	05/31/2019		MG/L				Insufficient Flow for sampling
Madison 1	Winter Wet	E COLI COLONY (CFU)	575	CFU	05/30/2019		CFU				Insufficient Flow for sampling
Madison 1	Winter Wet	TOTAL RESIDUAL CHLORINE (MAX)	.019	MG/L	05/30/2019		MG/L				Insufficient Flow for sampling
Madison 1	Winter Wet	DISSOLVED COPPER		MG/L	05/30/2019		MG/L				Insufficient Flow for sampling
Madison 1	Winter Wet	AMMONIA NITROGEN		MG/L	05/30/2019		MG/L				Insufficient Flow for sampling
Madison 1	Summer Wet	E COLI COLONY (CFU)	575	CFU	07/17/2018	0	CFU				
Madison 1	Summer Wet	AMMONIA NITROGEN	.339689494	MG/L	07/17/2018	0	MG/L		7.8		
Madison 1	Summer Wet	TOTAL RESIDUAL CHLORINE (MAX)	.019	MG/L	07/17/2018	0	MG/L				
Madison 1	Summer Wet	DISSOLVED COPPER	.049617118	MG/L	07/17/2018	.52	MG/L	440			
Madison 1	Summer Wet	DISSOLVED COPPER	.049617118	MG/L	07/16/2018	0	MG/L	440			
Madison 1	Summer Wet	E COLI COLONY (CFU)	575	CFU	07/16/2018	960	CFU				
Madison 1	Summer Wet	TOTAL RESIDUAL CHLORINE (MAX)	.019	MG/L	07/16/2018	0	MG/L				
Madison 1	Summer Wet	AMMONIA NITROGEN	.339689494	MG/L	07/16/2018	0	MG/L		7.8		
Parks & Rec. 1	Winter Wet	TOTAL RESIDUAL CHLORINE (MAX)	.019	MG/L	05/31/2019		MG/L				Insufficient Flow for sampling
Parks & Rec. 1	Winter Wet	AMMONIA NITROGEN		MG/L	05/31/2019		MG/L				Insufficient Flow for sampling
Parks & Rec. 1	Winter Wet	E COLI COLONY (CFU)	575	CFU	05/31/2019		CFU				Insufficient Flow for sampling
Parks & Rec. 1	Winter Wet	DISSOLVED COPPER		MG/L	05/31/2019		MG/L				Insufficient Flow for sampling
Parks & Rec. 1	Winter Wet	DISSOLVED COPPER		MG/L	05/03/2019		MG/L				Insufficient Flow for sampling
Parks & Rec. 1	Winter Wet	TOTAL RESIDUAL CHLORINE (MAX)	.019	MG/L	05/03/2019		MG/L				Insufficient Flow for sampling
Parks & Rec. 1	Winter Wet	AMMONIA NITROGEN		MG/L	05/03/2019		MG/L				Insufficient Flow for sampling
Parks & Rec. 1	Winter Wet	E COLI COLONY (CFU)	575	CFU	05/03/2019		CFU				Insufficient Flow for sampling
Parks & Rec. 1	Summer Wet	AMMONIA NITROGEN	.309935391	MG/L	07/17/2018	0	MG/L		7.6		
Parks & Rec. 1	Summer Wet	DISSOLVED COPPER	.049617118	MG/L	07/17/2018	0	MG/L	430			
Parks & Rec. 1	Summer Wet	TOTAL RESIDUAL CHLORINE (MAX)	.019	MG/L	07/17/2018	0	MG/L				
Parks & Rec. 1	Summer Wet	E COLI COLONY (CFU)	575	CFU	07/17/2018	0	CFU				
Parks & Rec. 1	Summer Wet	DISSOLVED COPPER	.049617118	MG/L	07/16/2018	0	MG/L	430			

OUTFALL NAME	SEASON NAME	PARAMETER	LIMITS		RESULTS						NODI Description
			SWQS	UNITS	DATE	SAMPLE VALUE	UNITS	HARDNESS	pH	TEMP	
Parks & Rec. 1	Summer Wet	E COLI COLONY (CFU)	575	CFU	07/16/2018	2400	CFU				
Parks & Rec. 1	Summer Wet	TOTAL RESIDUAL CHLORINE (MAX)	.019	MG/L	07/16/2018	0	MG/L				
Parks & Rec. 1	Summer Wet	AMMONIA NITROGEN	.309935391	MG/L	07/16/2018	0	MG/L		7.6		
Patagonia 1	Winter Wet	E COLI COLONY (CFU)	575	CFU	05/31/2019		CFU				Insufficient Flow for sampling
Patagonia 1	Winter Wet	TOTAL RESIDUAL CHLORINE (MAX)	.019	MG/L	05/31/2019		MG/L				Insufficient Flow for sampling
Patagonia 1	Winter Wet	AMMONIA NITROGEN		MG/L	05/31/2019		MG/L				Insufficient Flow for sampling
Patagonia 1	Winter Wet	DISSOLVED COPPER		MG/L	05/31/2019		MG/L				Insufficient Flow for sampling
Patagonia 1	Winter Wet	E COLI COLONY (CFU)	575	CFU	05/03/2019		CFU				Insufficient Flow for sampling
Patagonia 1	Winter Wet	TOTAL RESIDUAL CHLORINE (MAX)	.019	MG/L	05/03/2019		MG/L				Insufficient Flow for sampling
Patagonia 1	Winter Wet	AMMONIA NITROGEN		MG/L	05/03/2019		MG/L				Insufficient Flow for sampling
Patagonia 1	Winter Wet	DISSOLVED COPPER		MG/L	05/03/2019		MG/L				Insufficient Flow for sampling
Patagonia 1	Summer Wet	E COLI COLONY (CFU)	575	CFU	07/31/2018	2400	CFU				
Patagonia 1	Summer Wet	AMMONIA NITROGEN	.309935391	MG/L	07/31/2018	0	MG/L		7.6		
Patagonia 1	Summer Wet	TOTAL RESIDUAL CHLORINE (MAX)	.019	MG/L	07/31/2018	0	MG/L				
Patagonia 1	Summer Wet	DISSOLVED COPPER	.049617118	MG/L	07/31/2018	0	MG/L	420			
Patagonia 1	Summer Wet	AMMONIA NITROGEN	.309935391	MG/L	07/16/2018	0	MG/L		7.6		
Patagonia 1	Summer Wet	DISSOLVED COPPER	.049617118	MG/L	07/16/2018	0	MG/L	420			
Patagonia 1	Summer Wet	TOTAL RESIDUAL CHLORINE (MAX)	.019	MG/L	07/16/2018	0	MG/L				
Patagonia 1	Summer Wet	E COLI COLONY (CFU)	575	CFU	07/16/2018	0	CFU				

VISUAL MONITORING INFO

OUTFALL NAME	SEASON NAME	SAMPLE DATE	COLOR	SHEEN	SOLID	FOAM	ODOR	NODI	OTHER DESC
Alex 1	Winter Wet	03/27/2019						Insufficient Flow for sampling	There was no flow to observe.
Alex 1	Winter Wet	01/17/2019						Insufficient Flow for sampling	There was no flow to observe.
Alex 1	Summer Wet	09/25/2018						Insufficient Flow for sampling	There was no flow to observe.

OUTFALL NAME	SEASON NAME	SAMPLE DATE	COLOR	SHEEN	SOLID	FOAM	ODOR	NODI	OTHER DESC
Alex 1	Summer Wet	08/16/2018						Insufficient Flow for sampling	There was no flow to observe.
Baffert 1	Winter Wet	04/11/2019						Insufficient Flow for sampling	There was no flow to observe.
Baffert 1	Winter Wet	01/24/2019						Insufficient Flow for sampling	There was no flow to observe.
Baffert 1	Summer Wet	10/23/2018						Insufficient Flow for sampling	There was no flow to observe.
Baffert 1	Summer Wet	10/16/2018						Insufficient Flow for sampling	There was no flow to observe.
Madison 1	Winter Wet	03/13/2019						Insufficient Flow for sampling	There was no flow to observe.
Madison 1	Winter Wet	02/07/2019						Insufficient Flow for sampling	There was no flow to observe.
Madison 1	Summer Wet	08/23/2018						Insufficient Flow for sampling	There was no flow to observe.
Madison 1	Summer Wet	08/14/2018						Insufficient Flow for sampling	There was no flow to observe.
Parks & Rec. 1	Winter Wet	03/20/2019						Insufficient Flow for sampling	There was no flow to observe.
Parks & Rec. 1	Winter Wet	02/07/2019						Insufficient Flow for sampling	There was no flow to observe.
Parks & Rec. 1	Summer Wet	09/12/2018						Insufficient Flow for sampling	There was no flow to observe.
Parks & Rec. 1	Summer Wet	08/14/2018						Insufficient Flow for sampling	There was no flow to observe.
Patagonia 1	Winter Wet	03/20/2019						Analysis Not Conducted/ No Sample	There was no flow to observe.
Patagonia 1	Winter Wet	02/07/2019						Insufficient Flow for sampling	There was no flow to observe.
Patagonia 1	Summer Wet	09/13/2018						Analysis Not Conducted/ No Sample	There was no flow to observe.
Patagonia 1	Summer Wet	08/14/2018						Insufficient Flow for sampling	There was no flow to observe.

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MS4 Name: City Of Nogales
AZPDES: AZSM65849
Permit Type: Small MS4 Phase II
Reporting Period: 07/01/2018 to 06/30/2019
Report Frequency: ANNUAL

DMR Potential Deficiencies Report

OUTFALL NAME	SEASON NAME	PARAMETER	LIMITS		RESULTS						NODI Description	NON COMPLIANCE
			SWQS	UNITS	DATE	SAMPLE VALUE	UNITS	HARDNESS	pH	TEMP		
Madison 1	Summer Wet	E COLI COLONY (CFU)	575	CFU	07/16/2018	960	CFU					Warning, past SWQS Limit
Madison 1	Summer Wet	DISSOLVED COPPER	.049617118	MG/L	07/17/2018	.52	MG/L	440				Warning, past SWQS Limit
Parks & Rec. 1	Summer Wet	E COLI COLONY (CFU)	575	CFU	07/16/2018	2400	CFU					Warning, past SWQS Limit
Patagonia 1	Summer Wet	E COLI COLONY (CFU)	575	CFU	07/31/2018	2400	CFU					Warning, past SWQS Limit