Part 1: General Information

Permittee Name: Arizona Department of Transportation

Permit Number: AZS0000018-2008

Name of Stormwater Management Program Contact:

Leigh Waite, CMS4S

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Fax: 602.712.3492 Email: lwaite@azdot.gov Reporting Period: July 1, 2012 - June 30, 2013

Name of Certifying Official (Refer to permit Section 11.3):

Todd G. Williams, M.Sc.

Environmental Services Director 1611 West Jackson Street, Mail Drop EM04

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Part 2: Annual Report Certification

The Annual Report Form must be signed and certified by either a principal executive officer or ranking elected official; or by a "duly authorized representative" of that person in accordance with Section 11.3 of the permit.

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature of Certifying Official Date

Part 3: Narrative Summary of Statewide Stormwater Management Program (SSWMP) Activities

Provide a summary of the status of the SSWMP each year, including a brief description of the implementation and progress of every individual best management practice (BMP). Also, provide an explanation of any significant developments or changes to the number or type of activities, the frequency or schedule of activities, or the priorities or procedures for implementation of specific management practices.

The following manuals pertain to the ADOT SSWMP and have been updated as indicated:

- Erosion and Pollution Control Manual; The Erosion and Pollution Control Manual for Highway Design and Construction has been completely revised to be more user friendly. Each control measure or BMP is organized into one of the following categories: Construction Site Planning and Management, Erosion Control, Runoff Control, Sediment Control, Good Housekeeping, Non-stormwater and Waste Management. Each information sheet includes a definition, purpose, and At-A-Glance section, which provides brief information to assist in the selection of the Best Management Practices applicable to the project. Photographs and specific information on appropriate applications, limitation, planning and design considerations, material specifications, design standards and inspection and maintenance requirements complete each sheet.
- Post-Construction Stormwater Control BMP Manual. The Post-Construction BMP manual is being revised to specify those stormwater control measures that are specific to water quality. This rewrite is being conducted as part of the Administrative Order on Consent, which is a result of the 2010 audit by the Environmental Protection Agency.
- Maintenance and Facilities Best Management Practices (BMPs) Manual; No changes
- o Stormwater Monitoring Guidance Manual for MS4 Activities; No changes
- Stormwater Monitoring Guidance Manual for Construction Activities; No changes
- Stormwater Monitoring Guidance Manual for Industrial Activities; No changes

This year, ADOT has been focused on updating program elements, participating in permit negotiations, and identifying training needs. ADOT Environmental Services hired a training officer to be tasked with identifying the regulatory training requirements for various laws that impact ADOT business. District staff continues to provide tailgate or classroom outreach on various Clean Water Act permits in support of construction and maintenance projects. For example, Kingman District provided training to 76 personnel during the reporting period. While online training was made available during the 2011-2012 reporting period, in which 4,643 ADOT staff attended, this reporting period documented 1,249 ADOT staff attended classes.

Erosion Control Coordinator certification, specifically refresher training, is being mandated by ADOT specifications as modified in March 2013. As a result, multiple operators will undergo refresher training as required by May 2014, and recertification will occur every three years.

ADOT participates in outreach efforts collectively through the following organizations: Stormwater Outreach for Regional Municipalities, Pima Association of Governments Stormwater Management Working Group, and the Northern Arizona Stormwater Pollution Alliance. The STORM Annual Report is available at http://azstorm.org/assets/annual reports/2013-annual-report.pdf.

ADOT initiated an erosion abatement program to address locations that exhibit slopes greater than 3:1, have active erosion, and sediment is leaving the right-of-way. In 2012, ADOT originally assessed 22 locations statewide and has established a budget of one

million dollars per year. This reporting period ADOT bid a project that will stabilize 3.2 acres of right-of-way in the Phoenix metropolitan area. Approximately \$870,000 will be utilized to reduce sediment transport into the City of Phoenix municipal separate storm sewer system (MS4).

Provide a summary of updates to the Dry Weather Field Screening Portion of the Stormwater Monitoring Guidance Manual for MS4 Activities (Section 3.2.3.2.(c)); The ADOT dry weather field screening protocol has been reviewed due to the Administrative Order on Consent issued by the Environmental Protection Agency (refer to **Appendix A**). As a result of findings from the mapping and inspecting tasks and general program modifications, the MS4 Monitoring Manual may require significant updates. With the Administrative Order on Consent came a revised interpretation of outfall. As such, Part 4, Numeric Summary values are modified to be consistent with the Administrative Order on Consent. Outfalls have been mapped statewide and **Appendix B** contains a table of draft outfall information. This draft data will be reviewed according to the conditions of the Administrative Order on Consent.

Provide a list and description of all violations ADOT has determined at construction sites and their resolution, including any enforcement actions taken against ADOT contractors, in accordance with Section 5.3.1 (Section 5.3.4); None

Provide a map and summary of the status of each material source site (Section 6.8.3); present a list of all abandoned material source sites (unreclaimed sites where final stabilization was never completed), accompanied by a four year schedule to reclaim or utilize all Group B sites statewide (Section 6.8.4.1.(f)(ii)); describe the progress made toward reclaiming or utilizing Group B sites (Section 6.8.4.1.(f)(ii)); provide a summary of findings, deficiencies, and corrections made to each site in the inspection reports on Groups A, B and C material sources (Section 6.8.4.2.(a)). **Appendix C** provides the ADOT-Licensed Material Sources Inventory table with a summary of the status of each site and the Material Sources Inventory Location Map illustrates the position of these sites in the state.

Table 1 identifies ADOT's intentions with respect to renewal or reclamation and release of Group B sites.

	Source			Schedule					
Site No.	Name	District	County	Year 3	Year 3 Year 4 Year		2013-2014		
3044	Board Tree Saddle	Globe	Gila				Permit Renewal		
7225	Connor Canyon	Globe	Gila				Permit Renewal		
8763	Fish Creek	Globe	Maricopa				Permit Renewal		
6451	Slick Rock Wash	Safford	Graham				Returning to land manager Reclamation not required		
478	Mohawk	Yuma	Yuma	-			Further Evaluation		

Table 2 provides a summary of findings, deficiencies, and corrections recommended for each site. If a site is not listed in the table, it can be assumed that the facility was in compliance for the entire reporting period.

Site No. & Name	Findings	Deficiencies	Corrective Action
MS 2979 – Vicksburg	Ineffective perimeter control	Berm repair required	Reconstruct berm

Site No. & Name	Findings	Deficiencies	Corrective Action
MS 5002 – Fortuna	Leaking five gallon containers	Inadequate good housekeeping	Removal of containers and remediate
Wash			soil
MS 5643 – Gila	Significant head cutting	Inadequate erosion control	Install erosion control measures;
Bend South			conduct maintenance, as required
MS 6183 –	Discharge of wastewater	Improper waste management	Remove impacted soil
Dateland			·
MS 8400 -	Discharge of sediment	Inadequate sediment control	Implement erosion and sediment
Sunflower	_	-	control plan

Part 4: Numeric Summary of Stormwater Management Program Activities

Provide a numeric summary of BMPs and activities performed each year. Every year's Annual Report should include the numbers reported in the previous years.

Do not delete any of the existing measures listed in the table. Insert any additional measurable goals of BMP progress in the rows labeled as *Other numeric measurable goal(s)* or *Numeric measurable goal(s)*. Use italic font to clearly identify any additional measurable goals. If no measurable goal has been identified in the table below, the progress of the BMP must be described in Part 3 Narrative Summary of SSWMP Activities.

Section			Annual Reporting Year (July 1 – June 30)				
Number	Stormwater BMP or Activity	2008-	2009-2010	2010-	2011-2012	2012-2013	
Number		2009		2011			
	MEASURES TO CONTROL DISCHAR	RGES TH	ROUGH EDU	CATION			
3.2.2.1(a)(ii)(1)	Train ADOT Employees - Illicit discharges and illegal dumping (IDDE) (Combined with 3.2.2.1.(a)(ii)(2)						
	Number of trainings offered	7	17	13	Online	Online	
	Number of employees trained	35	112	33	973	194	
	(Other numeric measurable goal(s))						
3.2.2.1(a)(ii)(2)	Train ADOT Employees - Non-stormwater discharges (Combined with 3.2.2.1.(a)(ii)(1)						
	Number of trainings offered	7	17	13	Online	Online	
	Number of employees trained	35	112	33	See IDDE	See 3.2.2.1(a)(ii)(1)	
	(Other numeric measurable goal(s))						

Section		Annual Reporting Year (July 1 – June 30)				
Number	Stormwater BMP or Activity	2008- 2009	2009-2010	2010- 2011	2011-2012	2012-2013
3.2.2.1(a)(ii)(3)	Train ADOT Employees- New construction and land disturbances (Combined with 3.2.2.1.(a)(ii)(4) – named Stormwater Management of Construction Discharges)					
	Number of trainings offered	7	17	13	Online	Online
	Number of employees trained	35	112	33	See IDDE	168
	(Other numeric measurable goal(s))					
3.2.2.1(a)(ii)(4)	Train ADOT Employees - New development and significant redevelopment (Combined with 3.2.2.1.(a)(ii)(3)					
	Number of trainings offered	7	17	13	Online	Online
	Number of employees trained	35	112	33	932	See 3.2.2.1(a)(ii)(3)
	(Other numeric measurable goal(s))					
3.2.2.1(a)(ii)(5)	Train ADOT Employees - Storm sewer system and highway maintenance					
	Number of trainings offered	7	17	13	Online	Online
	Number of employees trained	35	112	33	906	179
	(Other numeric measurable goal(s))					
3.2.2.1(a)(ii)(6)	Train ADOT Employees - Good housekeeping and material BMPs (Combined some modules and changed the title) Spill Prevention and Response are part of General Awareness; Pesticides and Fertilizers are stand alone; Industrial is lumped with Waste Disposal					
	Spill Prevention and Response - Number of trainings offered	7	17	1	Online	Online
	Spill Prevention and Response - Number of employees trained	35	112	36	654	369
	Pesticides, Herbicides, and Fertilizer Application - Number of trainings offered	7	17	1	Online	Online

Section		Annual Reporting Year (July 1 – June 30)				
Number	Stormwater BMP or Activity	2008- 2009	2009-2010	2010- 2011	2011-2012	2012-2013
	Pesticides, Herbicides, and Fertilizer Application - Number of employees trained	35	112	36	See Spill	141
	Industrial Sites - Number of trainings offered 7		17	1	Online	Online
	Industrial Sites - Number of employees trained	35	112	36	971	196
	(Other numeric measurable goal(s))					
3.2.2.1(a)(iii)	Develop Stormwater Library					
	Number of times accessed or visited	N/A	N/A	N/A	365	3764
	(Other numeric measurable goal(s))					
3.2.2.1(b)	ADOT Construction Contractor Training and Certification					
	Number of trainings offered:16hr; 6hr refresher	7	6	8	11	7; 5
	Number of ADOT employees trained/certified	35	22	34	46	42
	Number of ADOT employees re-certified	5	28	5	14	12
	Number of non-ADOT employees certified	N/A	129	53	132	95
	Number of non-ADOT employees re-certified	N/A	N/A	N/A	N/A	51
	(Other numeric measurable goal(s))					
3.2.2.2(b)(i)	Distribution of Educational Materials Through Public Places					
	Number of materials (posters, brochures, signs, etc.) distributed	2,600	4,577	5,200	See STORM	See STORM Annual Report
	Number of public events ADOT attended with displays	5	65	119	See STORM	See STORM Annual Report
	Estimated Audience from TV, movie, radio, billboard PSAs	N/A	13,534,800	4,268,300	See STORM	See STORM Annual Report
	Educational items (coloring books, wrist bands, magnet)	N/A	6,129	8,000	See STORM	See STORM Annual Report
	Construction seminar attendees	N/A	N/A	80	N/A	N/A
	(Other numeric measurable goal(s))					

Section			Annual R	eporting Yo	ear (July 1 – J	une 30)
Number	Stormwater BMP or Activity	2008-	2009-2010	2010-	2011-2012	2012-2013
- Tuniboi		2009		2011		
3.2.2.2(b)(ii)	2.2.2(b)(ii) Distribution of Educational Materials Through ADOT's Stormwater Webpage					
	Number of hits on webpage	0	0	0	365	5,018
	(Other numeric measurable goal(s))					
3.2.2.3(b)	Record and Consider Public Comments				•	
	Number of public comments received	0	0	0	0	1
	(Other numeric measurable goal(s))					
3.2.2.3(c)	Implement a Public Reporting System					
	Number of reports received from public	0	0	0	0	1
	Number of reports investigated	0	0	0	0	1
	(Other numeric measurable goal(s))					
3.2.2.3(d)	Develop a Stormwater Component of the Adopt-a- Highway Litter Initiative					
	Number of volunteer groups participating	1,835	1,609	1,569	1,618	264
	Number of miles cleaned	2,291	2,026	3,935	4,108	86
	Amount of trash collected	246	211	224	Unreported	523
	(Other numeric measurable goal(s))					
3.2.2.3(e)	Continue Implementation of Litter Hotline				•	
	Number of calls received	3,389	2,864	2,776	Unreported	Unreported
	(Other numeric measurable goal(s))					
	ILLICIT DISCHARGE/ILLEGAL DUMPING DET	ECTION A	AND ELIMINA	TION MEAS	SURES	
3.2.3.1(a)	Maintain Illicit Discharge Authority					
	(Numeric measurable goal(s))					
3.2.3.1(b)	Enforce Standard Encroachment Permit					
	Number of enforcement actions	0	0	0	0	0
	(Other Numeric measurable goal(s))					
3.2.3.1(d)	Implement Non-Stormwater BMPs			1		
	(Numeric measurable goal(s))					

Section		Annual Reporting Year (July 1 – June 30)					
Number	Stormwater BMP or Activity	2008- 2009	2009-2010	2010- 2011	2011-2012	2012-2013	
3.2.3.2(d)	Inspect Outfalls for Dry Weather Discharges						
	Number of major outfalls inspected	35	35	0	51	68	
	Number of priority outfalls inspected	7	0	0	N/A	See Narrative	
	Number of storm drain cross connection detected	0	0	0	N/A	3	
	Number of illicit discharges detected	1	1	0	6	1	
	Number of other dry weather flows detected	0	0	0	7	7	
	Administrative Order on Consent Outfalls Identified	N/A	N/A	N/A	N/A	222	
	Administrative Order on Consent Outfalls Inspected	N/A	N/A	N/A	N/A	218	
	(Numeric measurable goal(s))						
3.2.3.3(b)	Investigate Illicit Discharges (Source Identification)			T			
	Number of storm drain cross connection investigated	0	0	0	N/A	4	
	Number of illicit discharges investigated	0	0	7	9	4	
	Number of other dry weather flows investigated	0	0	0	7	7	
	(Other numeric measurable goal(s))						
3.2.3.3(c)	Respond to Complaints			T			
	Number of complaints received	0	0	0	0	1	
	Number of complaints responded to	0	0	0	0	1	
	Average response time (in days)	0	0	0	0	2	
	(Other numeric measurable goal(s))						
3.2.3.3(d)	Report Incidental Dry Weather Discharges						
	Number of discharges reported to ADEQ	1	1	0	0	0	
	(Other numeric measurable goal(s))						
3.2.3.4(a)	Take Action to Eliminate Existing Dry Weather Flows						
	Number of existing dry weather discharges eliminated	0	0	0	0	1	
	(Other numeric measurable goal(s))						
3.2.3.4(b)	Take Action to Eliminate Sources of Illicit Discharges						
	Number of storm drain cross connection eliminated	0	0	0	0	0	
	Number of illicit discharges eliminated	1	1	7	7	1	
	Number of dry weather discharges eliminated	1	1	0	6	1	

Section			Annual Reporting Year (July 1 – June 30)					
Number	Stormwater BMP or Activity	2008- 2009	2009-2010	2010- 2011	2011-2012	2012-2013		
	(Other numeric measurable goal(s))							
3.2.3.4(c)	Coordinate with Local Jurisdictions for Complaint Response and Investigation							
	Number of illicit discharges reported to other jurisdictions for follow-up	1	0	0	5	6		
	(Other numeric measurable goal(s))							
3.2.3.5	Responding to Spills							
	Number of highway accident spills responded to	0	156	180	196	196		
	Number of highway accident spills prioritized (potential for discharge)	0	156	10	17	19		
	Hazardous materials released	N/A	N/A	50	17	19		
	(Other numeric measurable goal(s))							
	MEASURES TO CONTROL DISCHARGES FROM N	EW DEVE	LOPMENT A	ND REDEVI	ELOPMENT			
3.2.5.2	Install Post-Construction Stormwater Control BMPs							
	Number of new post-construction stormwater control BMPs installed	N/A	0	0	0	0		
	(Other numeric measurable goal(s))							
	MEASURES TO CONTROL DISCH	IARGES I	FROM ROAD	WAYS				
3.2.6.1(b)	Inspect Storm Sewer System							
	Number of inspections performed	0	51	51	51	6,933		
	(Other numeric measurable goal(s))							
3.2.6.1(c)	Develop Maintenance Schedules and Priorities							
	(Numeric measurable goal(s))							
3.2.6.1(d)	Perform Repair, Maintenance, and Cleaning		_					
	Number of miles of roadways repaired/maintained	0	0	0	0	26,144		
	Number of inlets cleaned	0	0	0	0	2,631		
	Number of drain inlets containing significant materials	0	0	0	0	223		
	Number of miles of canal/open-channel cleaned	N/A	N/A	N/A	N/A	32		

Section		Annual Reporting Year (July 1 – June 30)				
Number	Stormwater BMP or Activity	2008-	2009-2010	2010-	2011-2012	2012-2013
Nullibei		2009		2011		
	(Other numeric measurable goal(s))					
3.2.6.2(c)(ii)	Require Certification/License					
	Number of licensed ADOT applicators		41	40	Unreported	50
3.2.6.2(d)	Stabilize Roadway Slopes (attach summary of tracking & prioritization –					
	Acres of roadway slopes stabilized	0	0	0	0	39
	MEASURES TO CONTROL DISCHARGES FR	OM ADO	T MAINTENA	NCE FACILI	TIES	
4.1.5.3	Stencil Drain Inlets at ADOT Facilities					
	Number of new catch basins installed		0	0	0	0
	Number of catch basins marked or stenciled		0	0	0	3
	(Other numeric measurable goal(s))					

Part 5: Evaluation of the Statewide Stormwater Management Program

In accordance with Section 3.1.5 of the permit, provide an evaluation of the progress and success of the SSWMP each year, including an assessment of the effectiveness of stormwater management practices in reducing the discharge of pollutants to and from the municipal storm sewer system. ADOT continues to make progress in implementing the SSWMP. Each annual report highlights areas where ADOT exceeds in compliance and identifies areas where the agency can improve. The recently issued Administrative Order on Consent further memorializes progress that the agency makes in following regulations intended for municipal systems.

Part 6: Statewide Stormwater Management Program Modifications

In accordance with Section 3.1.6 of the permit, provide a description of modifications to the SSWMP each year as follows:

- 1. <u>Addition of New BMPs</u>: Summarize the development and implementation of any new stormwater management practices or pollution controls each year. None.
- 2. <u>Adding Temporary or Experimental BMPs:</u> Describe the initiation and cessation of such BMPs and the perceived success of the temporary or experimental stormwater control. <u>None.</u>
- 3. Increase of Existing BMPs: Summarize modifications to existing stormwater management practices that increase the number of activities, increase the frequency of activities, or other increases in the level of implementation. ADOT commenced a program to implement facility pollution prevention plans as a standard document for all maintenance facilities. This increased the number of formalized stormwater plans for facilities with materials exposed to rain, wind, or snow melt from 18 to 95. This standardization does several things; 1) enables the staff who report to work every day at a given facility to identify, track, and minimize sources of,

and practices to prevent, pollutants from affecting the natural environment; 2) provides a tangible source of information for tenants that also may be potentially accountable; and 3) exemplifies the ADOT commitment to pollution.

4. <u>Replacement of Existing BMPs</u>: Describe modifications to replace an ineffective stormwater management practice with an alternate practice by demonstrating that the change will continue to achieve an equivalent reduction in pollutants and will not cause or contribute to a violation of any applicable water quality standard. <u>None</u>.

Part 7: MS4 Monitoring Locations

Provide a brief description of each stormwater monitoring location (outfall), including the following information:

- 1. The outfall identification number or name;
- 2. Address or physical location of the site, including the latitude and longitude of the outfall;
- 3. Size of outfall's drainage area;
- 4. Land use(s) with an estimated percentage of each use;
- 5. Name and description of the receiving water; and
- 6. Type of monitoring equipment used.

ADOT has five fixed monitors in the MS4 – Flagstaff, Sedona, Phoenix, Tucson, and Nogales. Refer to **Appendix D** AZPDES Permit Renewal Items Memo pages 2 and 3 for general description information and **Appendix D** AZPDES Permit Renewal Items Attachment 3 for illustrations.

Part 8: Storm Event Records (MS4)

For each MS4 outfall monitoring location, provide a summary of all subsequent representative storm events necessary to collect at least one representative stormwater sample (greater than 0.1 inch rainfall) occurring within the reporting period, including the date of each event, the amount of precipitation (inches) for each event, and whether a sample was collected, or if not collected, information on the conditions that prevented sampling. Refer to **Appendix D** AZPDES Permit Renewal Items Attachments 1 and 2 for required information.

Part 9: Summary of MS4 Monitoring Data (By Location)

Use a separate table for each outfall monitoring location. Provide the outfall identification number, the receiving water, designated uses, and the lowest surface water quality standards applicable to the receiving water. Enter the analytical results for the stormwater samples collected for each season of the reporting period for each year. Enter subsequent monitoring data for each location on the same form. Include, as an attachment, the laboratory reports for stormwater samples. Refer to Appendix D AZPDES Permit Renewal Items Attachment 2 for required monitoring data and Appendix E for laboratory reports. A short reference table of lab information is included below.

Location	Sampling Season	Collection Date	Report Date	Lab Report Number
Flagstaff	Summer	10/12/2012	10/22/2012	L600743
Flagstaff	Winter	01/25/2013	02/06/2013	L617489
Sedona	Summer	Not applicable	Not applicable	Not applicable
Sedona	Winter	01/25/2013	02/06/2013	L617505
Phoenix	Summer	Not applicable	Not applicable	Not applicable
Phoenix	Winter	12/14/2012	12/27/2012 and 12/28/2012	L611442 and L611431, respectively
Tucson	Summer	08/22/2012	08/22/2012	PVH1801-01
Tucson	Winter	12/13/2012	12/17/2012	PVL1141-01 and PVL1141-02
Nogales	Summer	Not applicable	Not applicable	Not applicable
Nogales	Winter	12/14/2012	12/31/2012	PVL1139-01

Part 10: Summary of Industrial and Construction Monitoring Data

Provide a summary of monitoring performed at industrial and construction sites as required in the permit. Monitoring regularly occurs at the Durango Sign Factory, which is one of multiple industrial facilities managed by ADOT. Three ADOT Maintenance Yards occur within ¼ mile of an impaired water and are included as industrial facilities that require monitoring. The following information summarizes the lab report information for these four sites.

Location	Sampling Season	Collection Date	Report Date	Lab Report Number
Durango Sign Factory	Summer	08/24/2012	08/31/2012	PVH1953-01
Durango Sign Factory	Winter	12/19/2012	12/30/2012	L612346
Superior Yard	Summer	Not applicable	Not applicable	Not applicable
Superior Yard	Winter	12/14/2012	12/24/2012	L611716
Superior Fuel Depot	Summer	Not applicable	Not applicable	Not applicable
Superior Fuel Depot	Winter	12/14/2012	12/24/2012	L611713
Nogales Yard	Summer	08/16/2012	08/28/2012	PVH1436-01
Nogales Yard	Winter	12/14/2012	12/31/2012	PVL1140-01

In addition to the industrial monitoring, seven construction sites were subject to monitoring in the reporting period. The following projects adhered to approved monitoring plans as listed below. The table contains the associated construction authorization number, the number of events that resulted in discharge and were sampled, the results of sampling, and whether exceedance of a water quality standard (WQS) was noted. Discharge Monitoring Reports will be retained by ADOT in project SWPPPs until September 2018 and are included in **Appendix F**.

Project Name	Contractor AZCON number	Discharge Sampled?	Lab Report Attached?	Exceedance of WQS?	ADOT assumed project after contractor filed for termination?
Alamo Lake	72735	No discharges	Not applicable	Not applicable	No
Boyce Thompson	528824	No discharges	Not applicable	Not applicable	No
Marsh Station (II)	520904	No discharges	Not applicable	Not applicable	No
Marsh Station (III)	74798	No discharges	Not applicable	Not applicable	Ongoing
San Pedro River	72275	No discharges	Not applicable	Not applicable	Ongoing
Doubtful Canyon	57907	Turbidity (Jan 2013)	Not applicable	Not applicable	Ongoing
SR 260 Elk Fencing	529084	No discharges	Not applicable	Not applicable	No

Part 11: Assessment of Monitoring Data

- A. <u>Stormwater Quality</u>: Provide an evaluation of the sampling results for each outfall monitoring location, including an assessment of any trends, improvements, or degradation of stormwater quality from each drainage area. Discuss possible explanations for stormwater quality trends, including the implementation of stormwater management practices to reduce the discharge of pollutants to and from the storm sewer system. Refer to **Appendix D** AZPDES Permit Renewal Items Memo Pages for required information.
- B. Water Quality Standards (WQS): Compare the sampling results for each outfall monitoring location with the applicable surface water quality standards for the receiving water. Provide an assessment of stormwater quality relative to water quality standards, including the progress towards reducing the discharge of pollutants to the maximum extent practicable and protecting receiving water quality. Refer to Appendix D AZPDES Permit Renewal Items Memo Pages for required information.
- C. <u>Exceeding a WQS</u>: Describe any exceedance of a surface water quality standard during the reporting year. Refer to <u>Appendix D</u> AZPDES Permit Renewal Items Memo Pages for required information.
- D. <u>Total Maximum Daily Loads</u>: Assess the effectiveness of BMPs in meeting wasteload allocations or load allocations associated with any TMDL established for any receiving water. Refer to <u>Appendix D</u> AZPDES Permit Renewal Items Memo Pages for required information.

Part 12: Assessment of Pollutant Loadings

In accordance with Section 8.7.7 of the permit, provide an estimate of the pollutant loadings each year from the storm sewer system to waters of the U.S. for each constituent detected by stormwater monitoring within the permit term. Include an estimate of the event mean concentration of each pollutant for a representative storm event each year. Provide the seasonal (winter and summer) and

annual (total) pollutant loadings. Pollutant loadings and event mean concentrations may be estimated from sampling data collected at the representative monitoring locations, taking into consideration land uses and drainage areas for the outfall. Include a description of the procedures for estimating pollutant loads and concentrations, including any modeling, data analysis, and calculation methods. Compare the pollutant loadings estimated each year to previous estimates of pollutant loadings to identify trends in stormwater quality. Refer to Appendix D AZPDES Permit Renewal Items Attachment 5 for required information.

Part 13: Annual Expenditures

Provide a summary of the expenditures incurred each reporting period (July 1-June 30) to implement and maintain the stormwater management program, including associated monitoring and reporting activities. Provide the estimated budget for implementing and maintaining the stormwater program in the subsequent reporting period. Include a brief description of the funding sources used to support program expenditures. Various programs support the ADOT mission. State and Federal dollars are allocated for infrastructure improvements and associated maintenance. Private investments in the form of volunteer programs such as Adopt-A-Highway and Arizona Clean and Beautiful are also utilized. ADOT stormwater costs exceeded 11.4 million dollars.

Organization	Maintenance	Construction
Holbrook	604,947	551,469
Phoenix Maintenance	5,559,270	Not applicable
Kingman	301,683	27,408
Yuma	451,713	147,765
Globe	Unreported	1,087,763
Flagstaff	346,888	821,170
Prescott	34,804	Unreported
Environmental Services	591,000	870,000
Total	7,890,305	3,511,575

Part 14: Attachments

Appendix A – Administrative Order on Consent (AOC)

Appendix B – AOC Draft Outfall Information

Appendix C - Material Sources

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Appendix A

Administrative Order on Consent

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 9

IN THE MATTER OF:)
Arizona Department of Transportation) EPA Docket No. CWA-09-2012-2004
Proceedings under Sections 308(a)) ADMINISTRATIVE ORDER ON
and 309(a) of the Clean Water Act, as amended, 33 U.S.C. §§ 1318(a)) CONSENT
& 1319(a)) » »
	·)'

I. INTRODUCTION

- 1. This Administrative Order on Consent ("AOC") is entered into voluntarily by the United States Environmental Protection Agency, Region 9 ("EPA") and the Arizona Department of Transportation ("Respondent"). This AOC requires Respondent to remedy deficiencies, as specified herein, in its storm water management and control program under its current Statewide National Pollutant Discharge Elimination System ("NPDES") permit, issued by the Arizona Department of Environmental Quality ("ADEQ") in implementation of the Clean Water Act ("CWA"), 33 U.S.C. § 1251, et seq.
 - 2. EPA will provide notice of the AOC to the State of Arizona upon execution.
- 3. EPA and Respondent acknowledge that this AOC has been negotiated in good faith, is fair and reasonable, and is in the public interest.

II. JURISDICTION

- 4. The following Findings are made and the AOC is issued under the authority vested in the EPA Administrator under CWA Sections 308(a) and 309(a), 33 U.S.C. §§ 1318(a) and 1319(a). This authority has been re-delegated to the Director of the Enforcement Division, EPA Region 9.
 - 5. Respondent expressly consents and agrees as follows:
 - a. Respondent agrees to undertake and complete all actions required by the terms and conditions of this AOC;
 - b. In any action by EPA to enforce the AOC, Respondent agrees not to contest EPA's jurisdiction or authority to enter into or enforce this AOC or the validity of any terms and conditions of this AOC; and
 - c. Respondent agrees to waive any and all claims for relief and otherwise available rights or remedies to judicial or administrative review it may have with respect to any issue of fact or law set forth in the AOC, including but not limited to any right of

judicial review of this AOC under the Administrative Procedure Act, 5 U.S.C. §§ 701-708.

III. PARTIES BOUND

- 6. This AOC shall be binding on Respondent and its officials, officers, directors, partners, agents, employees, successors and assigns, and on all persons, independent contractors, contractors, and consultants acting in concert with Respondent.
- 7. No transfer of any interest in real property owned, operated or controlled by Respondent shall alter or relieve Respondent of its obligations under this AOC. Respondent shall reserve all rights necessary to comply with this AOC as a condition of the transfer and shall provide a copy of this AOC to the successor in interest at least thirty (30) days prior to the transfer.
- 8. The undersigned signatory for Respondent certifies that he has the authority to legally bind Respondent.
- 9. By executing and taking actions under this AOC, Respondent is not admitting to any liability or agreeing with the findings or conclusions set forth in Section IV below.

IV. FINDINGS OF FACT AND CONCLUSIONS OF LAW

- 10. Section 301(a) of the CWA, 33 U.S.C. § 1311(a), prohibits the discharge of any pollutant by any person into a water of the United States except in compliance with, *inter alia*, a permit issued under Section 402 of the CWA, 33 U.S.C. § 1342.
- 11. Section 402 of the CWA establishes the NPDES program, under which EPA or an EPA-authorized state, such as the State of Arizona, may issue a permit authorizing the discharge of a pollutant into waters of the United States.
- 12. Section 402(p) of the CWA, 33 U.S.C. § 1342(p), requires NPDES permits for certain municipal and industrial storm water discharges. EPA's implementing regulations at 40 C.F.R. § 122.26 require NPDES permits for, among other things: storm water discharges from a "municipal separate storm sewer system" ("MS4") serving a population meeting certain threshold sizes, 40 C.F.R. § 122.26(a)(3), (b)(4), (b)(7) and (b)(8); and storm water discharges associated with enumerated categories of industrial activity, including construction activity that result in disturbance of one acre or more, 40 C.F.R. § 122.26(a)(1), (b)(14) and (b)(15).
- 13. The Arizona Department of Transportation ("ADOT" or "Respondent") is a state agency and a "person" as defined by Section 502(5) of the CWA, 33 U.S.C. § 1362(5).
- 14. Respondent has its headquarters in Phoenix and operates nine engineering and maintenance districts: Flagstaff, Globe, Holbrook, Kingman, Phoenix, Prescott, Safford, Tucson, and Yuma.
- 15. Respondent is primarily responsible for the design, construction, management and maintenance of Arizona's highway system. It operates or controls, on a statewide basis:

- a. an MS4, including drainage systems, catch basins, curbs, gutters, ditches, man-made channels, and storm drains;
- b. construction activities resulting in disturbance of at least one acre of total land area;
- c. maintenance activities, including highway maintenance (such as slope stabilization, vegetation control, and drain inlet cleaning) and storm sewer maintenance (such as spill and illicit connection/discharge reporting and response); and
- d. maintenance facilities, including vehicle maintenance facilities, salt and sand storage facilities, material and equipment storage facilities.
- 16. Storm water discharges from Respondent's above-listed activities and facilities to "waters of the United States," as defined in 40 C.F.R. §122.2, in the State of Arizona are regulated under AZPDES No. AZS0000018-2008 (the Permit), a statewide NPDES permit issued by the ADEQ. The Permit has been in effect since September 18, 2008.
- 17. From October 25 through 29, 2010, EPA representatives audited Respondent's compliance with the Permit at its headquarters and four of its districts: Phoenix, Flagstaff, Tucson and Prescott. The audit included interviews with Respondent's headquarters and district representatives, document reviews, and inspections of approximately 57 individual construction activities, maintenance facilities, and maintenance activities located in Respondent's rights-of-way or served by Respondent's MS4 in those four districts. The audit results, which indicated multiple deficiencies in Respondent's stormwater program, are summarized in EPA's May 10, 2011 report (the "Audit Report"), attached hereto as **Exhibit 1**.
- 18. On October 28, 2011, Respondent responded to the Audit Report in writing (the "Audit Response"), attached hereto as **Exhibit 2**, and proposed a schedule to comply with the relevant permit requirements. Since then, Respondent has modified and provided several updates on its schedule and corrective efforts.
- 19. Respondent has made progress in addressing the issues identified in the EPA Audit; however, compliance with the following Permit requirements and deadlines must be delivered:
 - a. Illicit Discharges/Illegal Dumping Detection and Elimination Measures (Permit Section 3.2.3)
 - i. Map Storm Sewer System:
 - Permit Section 3.2.3.2.b requires Respondent to develop, by September 19, 2012, a storm sewer system map "identifying the location of all its major outfalls identified to date and their receiving waters in Arizona statewide" and containing specified details.
 - 2) As more fully set forth in Section 2.2.5 of the Audit Report, Respondent has not yet completed the required mapping for the following districts: Globe, Holbrook, Phoenix, Prescott, Safford, and Tucson.
 - ii. Inspect and Track Outfalls for Dry Weather Discharges:
 - 1) Permit Section 3.2.3.2.d requires Respondent to inspect 35 of the 71 major outfalls already identified in its September 2005 Phase I and Phase II Storm Water Systems Maps (the "71 Major Outfalls") for dry weather

discharges by September 2009, and to inspect the remainder by September 2010. Permit Section 3.2.3.2.e further requires Respondent to implement and maintain a system to track and record findings of outfall inspections, including the conditions of outfalls, potential sources of pollutants, and maintenance needs.

- As more fully set forth in Section 2.2.1 of the Audit Report, Respondent did not complete the dry weather screening of the 71 Major Outfalls by the permit deadlines, or create a system to track and record results of the dry weather screening program. From July 1, 2011 to June 30, 2012, Respondent completed dry weather screening for 51 of the 71 Major Outfalls.
- b. Inventory, Inspection and Maintenance of Post-Construction Best Management Practices ("BMPs") (Permit Section 3.2.5)
 - i. Permit Section 3.2.5.3 requires Respondent to "inventory, inspect, and maintain all post-construction stormwater pollution control BMPs in accordance with its *Post-Construction Stormwater Control BMP Manual*."
 - ii. As more fully set forth in Section 2.3.3 of the Audit Report, Respondent is still in the process of developing the required inventory of its post-construction BMPs.
 - iii. As more fully set forth in Section 2.3.4 of the Audit Report, Respondent has not yet commenced the required inspection and maintenance of its post-construction BMPs.
- c. Enforcement of Applicable Construction Project Requirements (Permit Section 5.3.1)
 - i. Permit Section 5.3.1 requires, among other things, that Respondent ensure compliance by its contractors with the AZPDES Construction General Permit ("Construction General Permit") for regulated projects (Section 5.3.1.1), implement a system to enforce the Construction General Permit and the Permit for its projects, and be responsible for inspection oversight (Section 5.3.1.3).
 - ii. As more fully set forth in Section 2.6.3 of the Audit Report, Respondent has lagged behind in carrying out its inspection oversight responsibility and implementing the enforcement system to ensure compliance with applicable permit requirements at its construction projects in various districts.
- 20. By failing to comply fully with the above-referenced permit requirements, Respondent has violated and continues to violate CWA Section 301(a), 33 U.S.C. § 1311(a).

V. WORK TO BE PERFORMED

- 21. <u>Definitions for the "Work to Be Performed" Section</u>. The following definitions shall apply to this section. Other terms used in this section that are defined in the Permit shall have the meaning assigned to them in the Permit.
 - a. "AOC" shall mean this Administrative Order on Consent and any amendments thereto.
 - b. "AOC Outfall" or "Outfall" shall mean any and all of the following:
 - i. any of the 71 Major Outfalls;
 - ii. any outfall, regardless of size, that discharges to any "impaired water," as the term is defined in Permit Section 12 at page 103;
 - iii. any outfall, regardless of size, that discharges to any "unique (or outstanding) water," as the term is defined in Permit Section 12 at page 108; and
 - iv. any outfall, regardless of size, that is known to have an illicit discharge that is ongoing or intermittent, excluding:
 - 1) spills from accidents and other isolated events that Respondent may respond to during the term of this AOC or has responded to in the past five years; and
 - 2) incoming or run-on flow from an adjacent municipality which passes through Respondent's storm water conveyances and for which Respondent has an agreement in place with the municipality or has documentation to characterize such pass-through.
 - c. "Task I AOC Outfalls" shall mean any and all of the following:
 - any and all of the 71 Major Outfalls; and
 - ii. other AOC outfalls in Respondent's Globe, Holbrook and Phoenix Districts.
 - d. "Task II AOC Outfalls" shall mean any and all AOC Outfalls in Respondent's Prescott, Safford and Tucson Districts, excluding the 71 Major Outfalls.
 - e. "Water Quality Post-Construction BMPs" shall mean the post-construction stormwater BMPs for the following structures, as described in Respondent's Water Quality Post-Construction BMP Manual:
 - i. manufactured treatment devices;
 - ii. bioretention structures:
 - iii. filtration structures;
 - iv. infiltration basins;
 - v. infiltration trenches; and
 - vi. retention and detention basins (designed for water quality improvements prior to discharge)¹.

¹ Any basins or infiltration devices included in and subject to the prescriptions or guidance in the Manual will be mapped only if designed for water quality improvements prior to discharge; those constructed to retain, detain, or infiltrate for traffic interchanges, or created for managing source materials or other flood containment would not be captured in this data.

- f. "Water Quality Post-Construction BMP Manual" (Manual) shall mean Respondent's document entitled "Water Quality Post-Construction Best Management Practices" and any amendments and revisions thereto made in accordance with applicable requirements of the Permit.
- g. "Work" shall mean all the actions and measures Respondent is required to undertake by this AOC.
- 22. To address the program deficiencies set forth in the Findings section above, Respondent shall complete the Work as specified below. Should the due date fall on a Saturday, Sunday or a federal holiday, it shall automatically extend to the close of business of the next business day.

23. Description of Task I Work.

- a. No later than April 15, 2013, Respondent shall complete the following Work:
 - i. Ensure Placement of Contractor Oversight and Compliance Personnel in All Nine Districts: Respondent shall have in place, for each of its districts, a Resident Engineer or equivalent who shall have the authority and responsibility for:
 - 1) overseeing, directing, and conducting inspections of all construction activities initiated or controlled by Respondent within the district; and
 - taking appropriate enforcement actions to ensure compliance by Respondent's contractors with the General Construction Permit and this Permit.
 - ii. Submit a report with the name and contact information for the designated Residential Engineer or equivalent for each district.
- b. No later than May 15, 2013, Respondent shall obtain a draft Water Quality Post-construction BMP Manual from its consultant for review and comment.
- c. No later than June 30, 2013, Respondent shall provide its comments on the draft Water Quality Post-construction BMP Manual to its consultant.
- d. No later than August 30, 2013, Respondent shall complete the following Work:
 - i. Complete Mapping of the Task I AOC Outfalls: The storm sewer system map(s) for each identified Outfall shall contain the following information for:
 - 1) its location;
 - 2) its drainage pattern and the water quality status (impaired or unique/outstanding) of its receiving water;
 - 3) the associated storm water collection and conveyance structures (e.g. drainage pipes, streets, floodway structures, AOC Outfalls, drywells, retention/detention basins);
 - 4) its surrounding highway system; and

- 5) its relevant district boundary.
- ii. Complete Water Quality Post-Construction BMP Manual modifications: Respondent shall update the Manual with BMPs utilized by the State for a water quality benefit.
- e. No later than September 15, 2013, Respondent shall complete the following Work:
 - i. Submit 1st Compliance Report: Respondent shall submit a compliance report with the following information:
 - 1) verification of compliance with the required mapping for the reporting period;
 - 2) a summary of the mapping work performed during the reporting period;
 - 3) any amendment or revision made to the Water Quality Post-Construction BMP Manual during the reporting period.
- f. No later than October 31, 2013, Respondent shall complete the following Work:
 - Complete Dry Weather Outfall Screening Work for Task I AOC Outfalls:
 Respondent shall complete inspection of Task I AOC Outfalls for any dry
 weather discharges in accordance with the updated Dry Weather Field
 Screening Sites part of its Stormwater Monitoring Guidance Manual for MS4
 Activities.
 - ii. Complete Water Quality Post-Construction BMP Mapping, Inspection and Maintenance Work for Globe, Holbrook and Phoenix: Respondent shall complete the Work in accordance with the updated Water Quality Post-Construction BMP Manual, including the inspection requirements listed in the BMP Sheets.
- g. No later than November 15, 2013, Respondent shall complete the following Work:
 - i. Submit 2nd Compliance Report: The Compliance Report shall contain the following information:
 - 1) verification of compliance with the AOC requirements for the reporting period;
 - 2) a summary table of the location of each Task I AOC Outfall screened within the reporting period, the inspection date, the inspection finding, and any follow-up action taken or planned;
 - 3) a summary table of the location of each Water Quality Post-Construction BMP inspected, the inspection date, the inspection finding, and any follow-up action taken or planned; and a summary table of the construction sites inspected within the reporting period for each of the nine districts, the inspection date, the inspection finding, and any follow-up action taken or planned.

24. Description of Task II Work.

- a. No later than January 15, 2014, Respondent shall complete the following Work:
 - i. Complete Mapping and Dry Weather Screening for Task II AOC Outfalls: The storm sewer system map(s) for the Task II AOC Outfalls shall contain information for each identified Outfall as specified in 23.d.i.
 - ii. Complete Water Quality Post-Construction BMP Inventory Mapping,
 Inspection and Maintenance for Prescott, Safford and Tucson: Respondent
 shall conduct the inventory mapping in accordance with the updated Water
 Quality Post-Construction BMP Manual.
- b. No later than March 15, 2014, Respondent shall complete the following Work:
 - i. Submit 3rd Compliance Report: The Compliance Report shall contain the following information:
 - 1) verification of compliance with the AOC requirements for the reporting period;
 - 2) a summary of the mapping work performed during the reporting period;
 - 3) a summary table of the construction sites inspected within the reporting period for each of the nine districts, the inspection date, the inspection finding, and any follow-up action taken or planned;
 - 4) a summary table of the location of each Task II AOC Outfall screened within the reporting period, the inspection date, the inspection finding, and any follow-up action taken or planned; and
 - 5) a summary table of the location of each Water Quality Post-Construction BMP inspected, the inspection date, the inspection finding, and any follow-up action taken or planned.

25. <u>AOC Compliance Schedule Table</u>. The following table summarizes the Work required for each phase and the accompanying deadlines:

		AOC COMPL	IANCE SCHEDULE TABLE	
	Deadline	Mapping	Inspection & Maintenance	Contractor Oversight
	4/15/13	NA	NA .	Have designated personnel in place for every district. Submit list of personnel to EPA.
,	5/15/13	Draft Water Quality Post- Construction BMP Manual submitted from consultant to ADOT for review and comment.	NA	NA
	6/30/13	ADOT comments to consultant.	NA	NA
Task I	8/30/13	Complete mapping of Task I AOC Outfalls in Globe, Holbrook and Phoenix. Finalize modification of the Water Quality Post- Construction BMP Manual.	NA	NA
	9/15/13	First Compliance Report Due		
	10/31/13	Complete Water Quality Post- Construction BMPs mapping for Globe, Holbrook and Phoenix.	Complete dry weather screening of Task I AOC Outfalls. Complete inspection and maintenance of Water Quality Post-Construction BMPs mapped for Globe, Holbrook and Phoenix.	NA
	11/15/13	Second Compliance Report Due		
	1/15/14	Complete outfall mapping for Prescott, Safford and Tucson.	Complete dry weather screening of all Task II AOC Outfalls.	NA
Task II		Complete Water Quality Post- Construction BMP inventory mapping for Prescott, Safford and Tucson.	Complete inspection and maintenance of Water Quality Post-Construction BMPs for Prescott, Safford and Tucson.	
	3/15/14	Third Compliance Report Due	•	

VI. SUBMISSIONS AND NOTIFICATIONS

26. All submittals required by this AOC shall be signed by a principal executive officer, ranking elected official, or duly authorized representative of Respondent, as specified by 40 C.F.R. § 122.22(b), and shall include the following statement:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified persons properly gather and evaluate the information submitted. Based on my inquiry of those responsible for managing or gathering the information, the submitted information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

27. Unless otherwise specified by EPA, Respondent shall make all submittals required by this AOC by first-class mail or email to:

U.S. ENVIRONMENTAL PROTECTION AGENCY 75 Hawthorne Street San Francisco, CA 94105 Attn: Rick Sakow, Clean Water Act Compliance Office Sakow.rick@epa.gov

VII. <u>DELAY OF PERFORMANCE/FORCE MAJEURE</u>

- 28. Respondent shall perform the Work required under this AOC within the time limits set forth or approved herein, unless the performance is prevented or delayed by a Force Majeure event, or as otherwise agreed to in writing by EPA and Respondent.
- 29. For purposes of this AOC, a "Force Majeure" event is any event arising from causes beyond the control of Respondent or any entity controlled by Respondent that, notwithstanding due diligence by Respondent or any entity controlled by Respondent, delays or prevents performance of an obligation under this AOC. The due diligence requirement includes using due diligence to anticipate any such event and to minimize the delay caused by any such event to the greatest extent practicable. A Force Majeure event does not include, inter alia, increased costs of performance, changed labor relations, financial or business difficulties, normal inclement weather, or changed circumstances arising from the sale, lease or other transfer or conveyance of real estate interest.
- 30. If Respondent believes that a Force Majeure event is likely to occur, is occurring, or has occurred that may affect its ability to perform an obligation under this AOC, Respondent shall notify EPA by telephone or email within two (2) business days of when Respondent first became

aware of such event, and shall follow up with a formal notice to EPA within 15 days after the event with the following information:

- a. the action that may be or has been affected;
- b. the reasons for the delay;
- c. the length or anticipated duration of the delay;
- d. the measures taken or to be taken to prevent or minimize the delay;
- e. a schedule for implementing such measures; and
- f. any additional information deemed appropriate by Respondent to support its Force Majeure claim.

Failure to comply with the notice requirement of this paragraph shall constitute a waiver of any Force Majeure claim by Respondent as to the event in question.

- 31. If EPA agrees that an actual or anticipated delay is attributable to a Force Majeure event, the time for performance of the obligation shall be extended by written agreement of the parties. An extension of the time for performing an obligation affected by a Force Majeure event shall not, of itself, extend the time for performing a subsequent obligation.
- 32. Respondent shall have the burden of proving that a Force Majeure event was the cause of the noncompliance and the duration of the noncompliance.
- 33. For any other non-Force Majeure event that nevertheless may delay the performance of any obligation under the AOC, Respondent shall notify EPA in writing as soon as it becomes aware of such event and provide the same information as specified in Paragraph 30 above.

VIII. SCOPE OF THE AOC

- 34. This AOC is not a CWA permit.
- 35. Compliance with this AOC shall be no defense to any actions commenced pursuant to any applicable federal, state or local laws, regulations or permits.
- 36. Issuance of and compliance with this AOC shall in no way affect the rights of EPA or the United States with respect to any person not a party hereto.
- 37. This AOC shall in no way affect EPA's authority to enter, inspect, sample or monitor compliance under any law, permit, court order or agreement, and Respondent shall use its best efforts to arrange for access by EPA or its authorized representatives for determining compliance with this AOC. For purposes of this AOC, EPA's authorized representatives shall include all EPA employees and contractors and such other persons as EPA may designate.

IX. RESERVATION OF RIGHTS/FAILURE TO COMPLY WITH THE AOC

38. EPA reserves all rights, claims and remedies available under the law to enforce CWA violations, including without limitation any violation of the Permit or this AOC.

39. Failure to comply with this AOC is a violation of the CWA and may subject Respondent to civil penalties not to exceed \$37,500 per day for each violation under CWA § 309(d), 33 U.S.C. § 1319(d), and 40 C.F.R. § 19.4.

X. <u>TERMINATION AND SATISFACTION</u>

40. This AOC shall terminate upon written notice from EPA to the effect that it considers Respondent to have addressed the requirements of this AOC in a satisfactory manner; or, as otherwise ordered by a court of competent jurisdiction.

XI. <u>EFFECTIVE DATE</u>

41. This AOC shall become effective upon signature by EPA and Respondent.

IT IS SO AGREED AND ORDERED:

FOR U.S. ENVIRONMENTAL PROTECTION AGENCY REGION 9

Kathleen H. Johnson

Director

Enforcement Division

Environmental Protection Agency, Region 9

FOR ARIZONA DEPARTMENT OF TRANSPORTATION

John Halikowski Director Arizona Department of Transportation

4/16/13 Date

Appendix B

AOC Draft Outfalls

ADOT District	Original ID	Water Quality	Water Body ID	Flow Direction	Inspection Date	Flow	Smell	Floatables
Flagstaff		Impaired	AZ15060202	S	04/18/2013	Dry	None	None
Flagstaff		Impaired	AZ15010010	S	04/04/2013	Dry	None	None
Flagstaff		Impaired	AZ15060202	S	04/17/2013	Dry	None	None
Flagstaff		Impaired	AZ15060202	E	04/17/2013	Dry	None	None
Flagstaff		Impaired	AZ15060202	E	04/17/2013	Dry	None	None
Flagstaff		Impaired	AZ15060202	S	04/17/2013	Dry	None	None
Flagstaff		Impaired	AZ15060202	S	04/17/2013	Dry	None	None
Flagstaff		Impaired	AZ15060202	S	04/18/2013	Dry	None	None
Flagstaff		Impaired	AZ15060202	S	04/18/2013	Dry	None	None
Flagstaff		Impaired	AZ15060202	S	04/18/2013	Dry	None	None
Flagstaff	89A-371.74	Impaired	AZ15060202	N/A	04/17/2013	Dry	None	None
Flagstaff		Impaired	AZ15060202	S	04/18/2013	Dry	None	None
Flagstaff		Impaired	AZ15060202	S	04/18/2013	Dry	None	None
Flagstaff		Impaired	AZ15060202	S	04/18/2013	Dry	None	None
Flagstaff		Impaired	AZ15010010	S	Incomplete	Unk	Unk	Unk
Flagstaff		Impaired	AZ15010010	S	04/04/2013	Dry	None	None
Flagstaff		Impaired	AZ15060202	S	04/18/2013	Dry	None	None
Flagstaff		Impaired	AZ15010010	S	04/04/2013	Dry	None	None
Flagstaff		Impaired	AZ15060202	S	04/18/2013	Dry	None	None
Flagstaff		Impaired	AZ15010010	S	04/04/2013	Dry	None	None
Flagstaff		Impaired	AZ15010010	S	04/04/2013	Dry	None	None
Flagstaff		Impaired	AZ15010010	S	04/04/2013	Dry	None	None
Flagstaff	B40-196.14	MS4	AZ15020015	W	04/18/2013	Dry	None	None
Flagstaff	40-195.27	MS4	AZ15020015	W	04/18/2013	Dry	None	None
Flagstaff		Impaired	AZ15060202	S	04/18/2013	Dry	None	None
Flagstaff		Impaired	AZ15060202	S	04/18/2013	Dry	None	None
Flagstaff		Impaired	AZ15060202	S	04/18/2013	Dry	None	None
Flagstaff		Impaired	AZ15010010	S	04/04/2013	Dry	None	None
Globe		Impaired	AZ 15060103	W	04/24/2013	Dry	None	None
Globe		Impaired	AA15050100	S	04/24/2013	Dry	None	None
Globe		Impaired	AZ 15050100	S	04/24/2013	Dry	None	None
Globe		Impaired	AZ 15050100	S	04/24/2013	Dry	None	None
Globe		Impaired	AZ 15060103	S	04/24/2013	Dry	None	None
Globe		Impaired	AZ15060103	W	04/23/2013	Dry	None	None
Globe		Impaired	AZ15060103	W	Incomplete	Unk	Unk	Unk
Globe		Impaired	AZ15060103	N	04/23/2013	Dry	None	None
Globe		Impaired	AZ15050100	N	04/24/2013	Dry	None	None
Globe		Outstanding	AZ15020001	SW	04/22/2013	Dry	None	None
Globe		Impaired	AZ15050100	S	04/24/2013	Dry	None	None

ADOT District	Original ID	Water Quality	Water Body ID	Flow Direction	Inspection Date	Flow	Smell	Floatables
Globe		Impaired	AZ15060103	S	04/22/2013	Dry	None	None
Globe		Impaired	AZ15020001	N	04/22/2013	Dry	None	None
Globe		Impaired	AZ15050100	N	04/24/2013	Dry	None	None
Globe		Impaired	AZ15020001	N	04/22/2013	Dry	None	None
Globe		Impaired	AZ15050100	E	04/24/2013	Dry	None	None
Globe		Impaired	AZ15020001	N	04/22/2013	Dry	None	None
Globe		Impaired	AZ15020001	S	04/23/2013	Dry	None	None
Globe		Outstanding	AZ15020001	SW	04/22/2013	Dry	None	None
Globe		Outstanding	AZ15020001	SW	04/22/2013	Dry	None	None
Globe		Impaired	AZ15050100	S	04/22/2013	Dry	None	None
Globe		Impaired	AZ15050100	S	04/24/2013	Dry	None	None
Globe		Impaired	AZ15050100	N	04/24/2013	Dry	None	None
Phoenix	10-149.18	MS4	AZ15060106	W	05/21/2013	Slow	None	None
Phoenix	202 - 14.22	MS4	AZ15060106	W	05/20/2013	Dry	None	None
Phoenix	101 - 50.87	MS4	AZ15060106	W	05/20/2013	Dry	None	None
Phoenix	202-5.14	MS4	AZ15060106	W	05/20/2013	Dry	None	None
Phoenix	10-145.17	MS4	AZ15060106	W	05/21/2013	Standing	None	None
Phoenix	202-7.44	MS4	AZ15060106	W	05/20/2013	Dry	None	None
Phoenix	202-8.28	MS4	AZ15060106	W	05/20/2013	Dry	None	None
Phoenix	202-8.65	MS4	AZ15060106	W	05/20/2013	Dry	None	None
Phoenix	202-5.90	MS4	AZ15060106	W	05/20/2013	Dry	None	None
Phoenix	10-151.06	MS4	AZ15060106	W	05/21/2013	Dry	None	None
Phoenix	17 - 198.48	Impaired	AZ15060106	W	05/21/2013	Dry	None	None
Phoenix	101-13.68	MS4	AZ15070102	SW	05/21/2013	Dry	None	None
Phoenix	10-150.44	MS4	AZ15060106	W	05/21/2013	Dry	None	None
Phoenix	10 - 162.44	MS4	N/A	SW	05/21/2013	Dry	None	None
Phoenix	143-2.90	MS4	AZ15060106	S	05/21/2013	Dry	None	None
Phoenix	202-7.44	MS4	AZ15060106	W	Incomplete	Unk	Unk	Unk
Phoenix	60-189.65	MS4	AZ15050100	S	05/21/2013	Standing	None	None
Phoenix	101-51.07	MS4	AZ15060106	W	05/20/2013	Standing	None	None
Phoenix	51 - 10.91	MS4	AZ15060106	S	05/20/2013	Dry	None	None
Phoenix	101-21.87A	MS4	AZ15070102	SW	05/20/2013	Dry	None	None
Phoenix	101-21.23 B	MS4	AZ15070102	SW	05/20/2013	Dry	None	None
Phoenix	101-21.23 A	MS4	AZ15070102	SW	05/20/2013	Dry	None	None
Phoenix	101-21.83	MS4	AZ15070102	SW	05/20/2013	Dry	None	None
Phoenix	101-20.19	MS4	AZ15070102	SW	05/20/2013	Dry	None	None
Phoenix	101 - 25.92	MS4	AZ15060106	NE	05/20/2013	Dry	None	None
Phoenix	101-16.62	MS4	AZ15070102	SW	05/20/2013	Dry	None	None
Phoenix	101-16.31	MS4	AZ15070102	SW	05/20/2013	Dry	None	None

ADOT District	Original ID	Water Quality	Water Body ID	Flow Direction	Inspection Date	Flow	Smell	Floatables
Phoenix	101-16.74	MS4	AZ15070102	SW	05/20/2013	Dry	None	None
Phoenix	101-15.18	MS4	AZ15070102	W	05/20/2013	Dry	None	None
Phoenix	101-14.38	MS4	AZ15070102	S	Incomplete	Unk	Unk	Unk
Phoenix	101-13.44	MS4	AZ15070102	S	05/21/2013	Dry	None	None
Phoenix	60-187.43	MS4	AZ15050100	S	05/21/2013	Dry	None	None
Phoenix	51 - 11.62	MS4	AZ15060106	S	05/20/2013	Dry	None	None
Phoenix		Impaired	AZ15060106	S	04/24/2013	Dry	None	None
Phoenix	10-130.3	MS4	AZ15070102	S	05/21/2013	Slow	None	None
Phoenix	10-130.2	MS4	AZ15070102	S	05/21/2013	Dry	None	None
Phoenix	87-178.55	MS4	AZ15060106	W	05/20/2013	Standing	None	None
Phoenix	60-159.51	MS4	N/A	S	05/21/2013	Standing	None	None
Phoenix		Impaired	AZ15060106	S	04/24/2013	Dry	None	None
Phoenix		MS4	AZ15060106	S	05/20/2013	Dry	None	None
Phoenix	101-6.05	MS4	AZ15070102	SW	05/21/2013	Dry	None	None
Phoenix	101-11.85	MS4	AZ15070102	SW	05/21/2013	Slow	None	None
Phoenix	101-7.76	MS4	AZ15070102	SW	05/21/2013	Standing	None	None
Phoenix	51-7.04	MS4	AZ15060106	SW	05/20/2013	Dry	None	None
Phoenix	51-8.22	MS4	AZ15060106	S	05/20/2013	Dry	None	None
Phoenix	17-208.2	MS4	N/A	W	05/21/2013	Dry	None	None
Phoenix	101-10.84	MS4	AZ15070102	SW	05/21/2013	Standing	None	None
Phoenix	202-3.57	MS4	AZ15060106	S	05/21/2013	Dry	None	None
Phoenix	51-5.45	MS4	AZ15060106	SE	05/20/2013	Dry	None	None
Phoenix	10-150.45	MS4	AZ15060106	W	05/21/2013	Dry	None	None
Prescott		Impaired	AZ15060202	S	05/10/2013	Dry	None	None
Prescott		Impaired	AZ15060203	S	04/22/2013	Dry	None	None
Prescott		Impaired	AZ15060105	S	04/22/2013	Dry	None	None
Prescott		Impaired	AZ15060105	S	04/22/2013	Dry	None	None
Prescott		Impaired	AZ15060105	S	04/22/2013	Dry	None	None
Prescott		Impaired	AZ`5060202	S	05/10/2013	Dry	None	None
Prescott		Impaired	AZ15060202	S	05/10/2013	Dry	None	None
Prescott		Impaired	AZ15060202	S	05/10/2013	Dry	None	None
Prescott		Impaired	AZ15060202	S	05/10/2013	Dry	None	None
Prescott		Impaired	AZ15060202	S	05/10/2013	Dry	None	None
Prescott		Impaired	AZ15060202	S	05/10/2013	Dry	None	None
Prescott		Impaired	AZ15060202	S	05/10/2013	Dry	None	None
Prescott	260-221.66	Impaired	AZ15060203	S	05/09/2013	Dry	None	None
Prescott		Impaired	AZ15060202	S	05/09/2013	Dry	None	None
Prescott	260-351.91	MS4	AZ15060202	NE	Incomplete	Unk	Unk	Unk
Prescott		Impaired	AZ15060105	S	04/22/2013	Dry	None	None

ADOT District	Original ID	Water Quality	Water Body ID	Flow Direction	Inspection Date	Flow	Smell	Floatables
Prescott		Impaired	AZ15060203	S	05/09/2013	Dry	None	None
Prescott	260-352.33	MS4	AZ15060202	NE	05/09/2013	Dry	None	None
Prescott		Impaired	AZ15060202	S	05/09/2013	Dry	None	None
Prescott		Impaired	AZ15060202	SW	04/17/2013	Dry	None	None
Prescott		Impaired	AZ15060202	S	05/09/2013	Dry	None	None
Prescott		MS4	AZ15070102	W	05/10/2013	Dry	None	None
Prescott	69-287.9	MS4	AZ15070102	W	04/18/2013	Dry	None	None
Prescott		Impaired	AZ15060202	S	05/09/2013	Dry	None	None
Prescott		Impaired	AZ15060202	SW	04/17/2013	Dry	None	None
Prescott		Impaired	AZ15060202	S	05/09/2013	Dry	None	None
Prescott		Impaired	AZ15060202	S	05/09/2013	Dry	None	None
Safford		Impaired	AZ15050202	SW	05/06/2013	Dry	Musty	None
Safford		Impaired	AZ15050202	Е	05/06/2013	Dry	None	None
Safford		Impaired	AZ15050202	NW	05/06/2013	Dry	None	None
Safford		MS4	AZ15050202	N	05/06/2013	Dry	None	None
Safford		MS4	AZ15050202	N	05/06/2013	Dry	None	None
Safford		Impaired	AZ15080301	SE	05/08/2013	Dry	None	None
Safford		Impaired	AZ15080301	Е	05/08/2013	Dry	None	None
Safford		MS4	AZ15050202	N	05/06/2013	Dry	None	None
Safford		MS4	AZ15050202	N	05/06/2013	Dry	None	None
Safford		Impaired	AZ15080301	SE	05/08/2013	Dry	None	None
Safford		Impaired	AZ15080301	SE	05/08/2013	Dry	None	None
Safford		Impaired	AZ15080301	SE	05/08/2013	Dry	None	None
Safford		Impaired	AZ15040002	SW	05/07/2013	Dry	None	None
Safford		Impaired	AZ15080301	Е	05/08/2013	Dry	None	None
Safford		Impaired	AZ15080301	SE	05/08/2013	Dry	None	None
Safford		Impaired	AZ15080301	SW	05/08/2013	Dry	None	None
Safford		MS4	AZ15050202	N	05/06/2013	Dry	None	None
Safford		Impaired	AZ15080301	SE	05/08/2013	Dry	None	None
Safford		Impaired	AZ15080301	Е	05/08/2013	Dry	None	None
Safford		Impaired	AZ15080301	Е	05/08/2013	Dry	None	None
Safford		Impaired	AZ15080301	Е	05/08/2013	Dry	None	None
Safford		Impaired	AZ15080301	SE	05/08/2013	Dry	None	None
Safford		Impaired	AZ15080301	SE	05/08/2013	Dry	None	None
Safford		Impaired	AZ15040002	SW	05/07/2013	Dry	None	None
Safford		Impaired	AZ15080301	SE	05/06/2013	Dry	None	None
Safford		Impaired	AZ15080301	E	05/08/2013	Dry	None	None
Safford		Impaired	AZ15040002	SW	05/07/2013	Dry	None	None
Safford		Impaired	AZ15080301	SE	05/08/2013	Dry	None	None

ADOT District	Original ID	Water Quality	Water Body ID	Flow Direction	Inspection Date	Flow	Smell	Floatables
Safford		Impaired	AZ15080301	SE	05/08/2013	Dry	None	None
Safford		Impaired	AZ15080301	SE	05/08/2013	Dry	None	None
Safford		Impaired	AZ15080301	Е	05/08/2013	Dry	None	None
Safford		Impaired	AZ15040002	N	05/07/2013	Dry	None	None
Safford		Impaired	AZ15040002	N	05/07/2013	Dry	None	None
Safford		Impaired	AZ15050202	SW	05/06/2013	Dry	None	None
Safford		Impaired	AZ15040002	N	05/07/2013	Dry	None	None
Tucson		Impaired	AZ15050301	E	04/30/2013	Dry	None	None
Tucson		Impaired	AZ15050301	E	04/30/2013	Dry	None	None
Tucson		Impaired	AZ15050301	E	04/30/2013	Dry	None	None
Tucson		Impaired	AZ15050301	N	05/01/2013	Dry	None	None
Tucson		Impaired	AZ15050301	E	04/30/2013	Dry	None	None
Tucson	189-2.89	Impaired	AZ15050301	E	06/18/2013	Dry	None	None
Tucson	77-71.8	MS4	AZ15050302	N	04/29/2013	Dry	None	None
Tucson	82-0.57	Impaired	AZ15050301	SW	05/01/2013	Dry	None	None
Tucson		Impaired	AZ15050301	S	04/30/2013	Dry	None	None
Tucson		Impaired	AZ15050301	E	04/30/2013	Dry	None	None
Tucson		Impaired	AZ15050301	Е	05/01/2013	Dry	None	None
Tucson		Impaired	AZ15050301	E	05/01/2013	Dry	None	None
Tucson		Impaired	AZ15050301	N	04/30/2013	Dry	None	None
Tucson		Impaired	AZ15050301	E	04/30/2013	Dry	None	None
Tucson		Impaired	AZ15050301	Е	04/30/2013	Dry	None	None
Tucson		Impaired	Az15050301	W	04/30/2013	Dry	None	None
Tucson		Impaired	AZ15050301	N	05/01/2013	Dry	None	None
Tucson		Impaired	AZ15050301	S	04/30/2013	Dry	None	None
Tucson		Impaired	AZ15050301	E	04/30/2013	Dry	None	None
Tucson		Impaired	AZ15050301	N	04/30/2013	Dry	None	None
Tucson		Impaired	AZ15050301	SW	05/01/2013	Dry	None	None
Tucson		Impaired	AZ15050301	S	05/01/2013	Dry	None	None
Tucson		Impaired	AZ15050301	SW	05/01/2013	Dry	None	None
Tucson		Impaired	AZ15050301	S	05/01/2013	Dry	None	None
Tucson		Impaired	AZ15050301	S	05/01/2013	Dry	None	None
Tucson		Impaired	AZ15050301	N	05/01/2013	Dry	None	None
Tucson		Impaired	AZ15050301	E	04/30/2013	Dry	None	None
Tucson	19-59.0	MS4	AZ15050301	W	06/18/2013	Dry	None	None
Tucson		Impaired	AZ15050301	N	05/01/2013	Dry	None	None
Tucson	210-2.7	MS4	AZ15050301	NE	04/29/2013	Dry	None	None
Tucson	10-260.7	MS4	AZ15050301	S	04/29/2013	Dry	None	None
Tucson	10-261.5	MS4	AZ15050301	S	04/29/2013	Dry	None	None

ADOT District	Original ID	Water Quality	Water Body ID	Flow Direction	Inspection Date	Flow	Smell	Floatables
Tucson	86-171.1	MS4	AZ15050301	S	04/30/2013	Dry	None	None
Tucson	77-71.74	MS4	AZ15050302	N	04/29/2013	Dry	None	None
Tucson	10-264.6	MS4	AZ15050301	W	04/29/2013	Dry	None	None
Tucson		MS4	AZ15050302	N	04/29/2013	Dry	None	None
Tucson		Outstanding	AZ15050302	S	04/29/2013	Dry	None	None
Tucson		Outstanding	AZ15050302	SW	04/29/2013	Dry	Musty	None
Tucson		Outstanding	AZ15050302	W	04/29/2013	Dry	None	None
Tucson		Outstanding	AZ15050302	E	04/29/2013	Dry	None	None
Tucson		Outstanding	AZ15050302	NE	04/29/2013	Dry	None	None
Tucson		Outstanding	AZ15050302	S	04/29/2013	Dry	None	None
Tucson	19-61.7	MS4	AZ15050301	Е	04/30/2013	Dry	None	None
Tucson		Impaired	AZ15050301	W	05/01/2013	Dry	None	None
Tucson		Impaired	AZ15050301	NW	05/01/2013	Dry	None	None
Tucson		Outstanding	AZ15050302	S	04/29/2013	Dry	None	None
Tucson		Impaired	AZ15050301	NW	05/01/2013	Dry	None	None
Tucson	210-1.2	MS4	AZ15050301	N	04/29/2013	Dry	None	None
Tucson		Impaired	AZ15050301	NW	05/01/2013	Dry	None	None
Tucson	77-85.97	MS4	AZ15050301	S	04/29/2013	Dry	None	None
Tucson		Impaired	AZ15050301	N	05/01/2013	Dry	None	None
Tucson	77-80.8	MS4	AZ15050301	W	04/29/2013	Dry	None	None
Tucson	77-79.9	MS4	AZ15050301	SW	04/29/2013	Dry	None	None
Tucson	77-78.7	MS4	AZ15050301	SW	04/29/2013	Dry	None	None
Tucson		MS4	AZ15050301	S	06/18/2013	Dry	None	None
Tucson		Impaired	AZ15050301	NW	05/01/2013	Dry	None	None
Yuma		Impaired	AZ15030107	W	04/11/2013	Dry	None	None
Yuma		Impaired	AZ15070101	W	04/11/2013	Dry	None	None
Yuma		Impaired	AZ15030107	W	04/11/2013	Dry	None	None

Appendix C

Material Sources

ADOT-Licensed Material Sources Inventory

Material															Non-	Potential		Water	Distance	
Source		ADOT		Owner	Town-					Latitude	Longitude	Total	SIC	Site	Exclusive	Non-SW	Stockpiled	of	to Waters	U/I
(MS) No.	Source Name	District	County	Code	ship	Range	Sec	Hwy	MP	°-'-"N	°-'-"W	Acres	Code	Use	Use	Discharge	Material	US	(miles)	Waters
	: A materials source in this gr									emoval or recove	ery of minerals is									
	y mining is not being actively u								•		•	_				. oo o. poo o	0.10 111.0.0	·······g ···ao		o paot,
	sources are expected to be us						g pc	,,,,,,,	iou by ii	10 10110011101(0)	applicable Ctate	or r odoro	govorimi	mi agonoj.						
1563	Pole Knoll	Globe	Apache	3	08 N	27 E	30	260	381	34-03-21.83	109-31-58.04	5	1429	20.22	No	HH.LL	Yes	Yes	0.25	No
3043	Squaw Peak	Globe	Gila	3	08 N	14 E	30	288	298	34-00-41.82	110-57-24.16	4	1499	20	Yes	HH	Yes	Yes	0.25	No
3512	Burnt Corral	Globe	Maricopa	3	03 N	11 E	1	88	236	33-38-04.52	111-11-18.65	11	1499	20	Yes	HH	Yes	Yes	0.25	No
5154	JMP Ranches Inc.	Globe	Apache	7	13 N	28 E	30	180	366	34-30-29.37	109-24-52.86	80	1499	22	No	HH	No	Yes	<0.25	No
8109	BVD	Holbrook	Coconino	1,5	19 N	15 E	21	I-40	250	35-01-54.56	110-45-32.79	80	1499	20,22,23	No	HH,MM,NN	Yes	Yes	>0.50	No
7810	Crabtree	Safford	Greenlee	3	02 N	29 E	14	191	217	33-31-04.55	109-18-59.02	10	1429	20,22	Yes	HH	Yes	Yes	0.25	No
6662	Val Vista	Tucson	Pinal	4	05 S	06 E	23	I-10	187	32-58-35.18	111-43-04.41	120	1499	22,23	Yes	HH	No	Yes	On-site	No
1662	Tanner	Yuma	Yuma	4	08 S	21 W	9	95	38	32-44-35.30	114-25-33.55	25	1442	20,22,24	Yes	HH,II,JJ	Yes	Yes	On-site	No
2979	Vicksburg	Yuma	La Paz	4	05 N	15 W	23	72	44	33-45-45.94	113-47-39.44	60	1499	20	Yes	HH	Yes	Yes	<0.25	No
3547	Gila Bend North	Yuma	Maricopa	4	06 S	03 W	7	I-8	124	32-54-57.00	112-35-53.80	19	1499	20,22	Yes	HH	Yes	Yes	On-site	No
5474	Castle Dome	Yuma	Yuma	9	06 S	20 W	3	95	53	32-56-15.13	114-18-32.26	14	1442	20,22	No	HH	Yes	Yes	0.25	No
A2. These	sources are used less than an	nually. Inspections a	re conducted a	t least annua	illy.									,			,		,	
8135	Warm Springs	Globe	Apache	3	07 N	30 E	5	180	411	34-01-33.25	109-11-53.27	42	1429	20,24	Yes	HH	Yes	Yes	On-site	No
8706	Yucca	Kingman	Mohave	1,2,4,7	18 N	17 W	30	I-40	29	34-55-04.24	114-07-02.16	133	1442	20,23	Yes	HH,MM	Yes	Yes	On-site	No
8569	Dugas	Prescott	Yavapai	3	12 N	03 E	27	I-17	270	34-23-29.20	112-02-26.61	40	1429	20	Yes	HH	Yes	Yes	<0.25	No
6022	Bowie	Safford	Cochise	2,4	13 S	28 E	32	I-10	365	32-15-20.64	109-30-02.93	134	1442	20,23	Yes	HH,MM	Yes	Yes	On-site	No
5058	Picacho	Tucson	Pinal	1	08 S	08 E	15	87	115	32-43-49.69	111-30-43.93	52	1429	20	No	HH,MM	Yes	Yes	On-site	No
5643	Gila Bend South	Yuma	Maricopa	4	06 S	03 W	19	I-8	123	32-53-16.92	112-36-42.77	256	1442	20,23	Yes	HH,MM	Yes	Yes	On-site	No
8268	Tiger Wash West	Yuma	Maricopa	4	04 N	10 W	16	I-10	73	33-41-29.35	113-18-02.48	69	1442	20,23	Yes	HH	Yes	Yes	On-site	No
TOTAL SIT	ES IN GROUP A = 18																			
GROUP B	: A material source in this gro	oup will include a site	e or portion of a	site where n	nining occ	urred in th	e past b	ut is not	an activ	e facility. A site t	hat is no longer b	eing used	will remain	in this gro	up until it can	be reclaimed, at	which time it w	ould be	moved to Gro	up C.
3044	Board Tree Saddle	Globe	Gila	3	07 N	14 E	7	288	295	33-57-37.32	110-57-11.80	3	1499	1.20	Yes	HH	Yes	Yes	<0.25	No
7225	Connor Canyon	Globe	Gila	3	06 N	13 E	36	288	280	33-48-45.14	110-58-31.83	9	1499	1,20	Yes	HH	Yes	Yes	< 0.25	No
8763	Fish Creek	Globe	Maricopa	3	02 N	11 E	5	88	227	33-32-39.06	111-15-15.76	4	1429	1,20	Yes	HH.JJ	Yes	Yes	0.25	No
6451	Slick Rock Wash	Safford	Graham	4	08 S	29 E	10	70	361	32-45-32.29	109-21-28.43	25	1442	20,26	Yes	N/A	Yes	Yes	On-site	No
478	Mohawk	Yuma	Yuma	4	08 S	14 W	17	I-8	54	32-43-55.91	113-43-53.95	20	1499	26	Yes	N/A	No	Yes	On-site	No
TOTAL SIT	ES IN GROUP B = 5	l .	_														,		,	
GROUP C	: Includes activities intended	to return the land to	its pre-mining s	state. (Once	a site is re	eclaimed, i	t will be i	removed	from th	is Group)										
3562	Beaver Creek	Flagstaff	Yavapai	3	15 N	05 E	12	179	302	34-42-35.03	111-46-45.18	2	Not 14XX	1,19	Yes	HH,MM	Yes	Yes	<0.25	No
8629	Sevenmile Wash	Globe	Gila	3	03 N	16 E	23	60	268	33-35-09.99	110-38-51.68	1	Not 14XX	1,19	Yes	HH,MM	Yes	Yes	On-site	No
TOTAL SIT	ES IN GROUP C = 2					•														
GROUP I	: Non-Mining Sites. These regu	ulated stockpile sites	s will be inspect	ed at least qu	uarterly.															
5781	Blue Grade	Flagstaff	Yavapai	3	16 N	06 E	35	I-17	304	34-44-17.12	111-40-58.62	17	Not 14XX	20,22	Yes	HH,LL,MM	Yes	Yes	0.25	No
7625	Fort Tuthill	Flagstaff	Coconino	1,3	21 N	07 E	31	89A	400	35-09-11.40	111-41-33.75	80	Not 14XX	20,22	No	HH,LL,MM	Yes	Yes	On-site	No
1061	Second Knoll	Globe	Navajo	3	10 N	23 E	18	60	347	34-15-25.88	109-56-19.91	6	Not 14XX	20,22	Yes	HH,LL	Yes	Yes	0.25	No
3591	Carol Spring Mountain	Globe	Gila	3	04 N	17 E	33	60	278	33-39-05.12	110-34-06.08	6	Not 14XX	20,22	No	HH,LL,MM	Yes	Yes	<0.25	No
7525	Defiance	Globe	Pinal	3	2 S	12 E	11	177	167	33-16-04.92	111-05-38.06	7	Not 14XX	20	Yes	HH,MM	Yes	Yes	< 0.25	No
1245	Sunset Pass	Holbrook	Coconino	2,7	17 N	13 E	13	87	325	34-51-59.87	110-54-29.34	10	Not 14XX	20,22	No	HH,LL,MM	Yes	Yes	On-site	No
8400	Sunflower	Phoenix	Maricopa	3	06 N	09 E	19	87	217	33-51-03.28	111-28-30.29	2	Not 14XX	20	Yes	HH	Yes	Yes	<0.25	No
999	Tubac	Tucson	Santa Cruz	1	20 S	13 E	31	I-19	24	31-38-42.19	111-03-19.16	14	Not 14XX	20,22	No	HH,MM	Yes	Yes	On-site	No
7885	Sahuarita	Tucson	Pima	1	17 S	13 E	27	I-19	44	31-55-09.96	111-00-01.88	37	Not 14XX	20,22	No	HH,MM	Yes	Yes	<0.25	No
1000	E . (D	Yuma	Yuma	1	08 S	21 W	33	95	33	32-41-57.32	114-25-34.73	40	Not 14XX	20,26	No	HH,MM	Yes	Yes	On-site	No
5002	Fortuna/Blaisedell	Turria																		4
	Dateland	Yuma	Yuma	2	06 S	13 W	36	I-8	67	32-51-32.30	113-33-07.68	85	Not 14XX	20,22	Yes	HH,MM	Yes	Yes	On-site	No
5002				2	06 S 03 N	13 W 11 W	36 27	I-8 I-10	67 68	32-51-32.30 33-34-34.62	113-33-07.68 113-22-48.65	85 40	Not 14XX Not 14XX	20,22	Yes No	HH,MM HH,MM	Yes Yes	Yes Yes	On-site On-site	No No

ADOT-Licensed Material Source Inventory

Definitions:

Group A: A materials source in this group will include a place where work or other activities related to the extraction, processing, removal or recovery of minerals is being conducted. Group A may also include a site or portion of a site where mining has occurred in the past, yet currently mining is not being actively undertaken and the facility may or may not be covered by an active mining permit issued by the landowner(s), applicable State or Federal government agency.

Group B: A material source in this group will include a site or portion of a site where mining occurred in the past but is not an active facility. A site that is no longer being used will remain in this group until it can be reclaimed, at which time it would be moved to Group C.

Group C: Includes activities intended to return the land to its pre-mining state. (Once a site is reclaimed, it will be removed from this Group).

Group I: Non-mining sites. These regulated stockpile sites will be inspected at least quarterly.

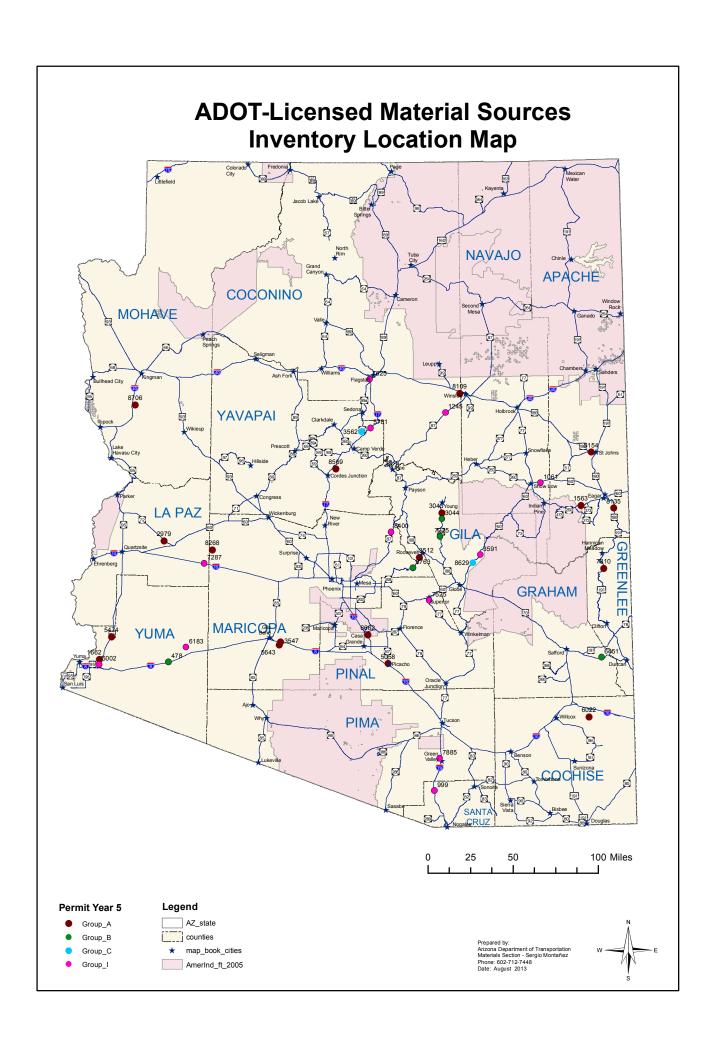
Waters of the US: Based on review of topographic maps and/or on-site review

Latitude/Longitude: Latitude/Longitude are expressed in NAD 83

N/A: Not Applicable

Site Use Codes:		Ownership Codes:	
1	Expired permit or license	1	ADOT
2	Never used - will not be inspected until pit is developed	2	Arizona State Land Department
18	Undergoing reclamation	3	USDA Forest Service
19	Requires revegetation or contouring	4	Bureau of Land Management
20	Stockpiles present	5	Tribal
21	Released from site by land owner/manager	7	Private
22	Maintenance only	9	Department of the Army
23	Construction only		
24	Multiple permitees	Non-Stormwater Discharge	Codes:
25	To be sold	НН	Water for dust control (not wastewater)
26	Requires further evaluation	II	Uncontaminated groundwater
Standard Industrial	Classification (SIC) Codes:	JJ	Diverted stream flow
1429	Crushed and broken stone (basalt and volcanic rock)	KK	Coring and drilling water - without additives
1442	Sand and gravel	LL	Deicing chemicals or products
1499	Borrow or fill dirt	MM	Petroleum-containing materials
Not 14XX	Non-mining sites; material storage area only	NN	Fertilizers - herbicide application to invasives

ADOT Districts:	Address:	District Engineers:	Phone:	E - Mail:
Flagstaff District	1801 S. Milton Road, Flagstaff, AZ 86001	Audra Merrick	928-774-1491	amerrick@azdot.gov
Globe District	P.O. Box 2717, Globe, AZ 85502-2717	Jesus (Jesse) Gutierrez	928-402-5600	jgutierrez@azdot.gov
Holbrook District	2407 E. Navajo Blvd., Holbrook, AZ 86025	Lynn Johnson	928-524-5408	ljohnson@azdot.gov
Kingman District	3660 E. Andy Devine, Kingman, AZ 86401	Mike Kondelis	928-681-6010	mkondelis@azdot.gov
Phoenix Construction	4550 N. Black Canyon Hwy., Phoenix, AZ 85017	Julie Kliewer	602-712-8965	jkliewer@azdot.gov
Phoenix Maintenance	2140 W. Hilton Ave., Phoenix, AZ 85009-3740	Tim Wolfe	602-712-6550	twolfe@azdot.gov
Prescott District	1109 Commerce Drive, Prescott, AZ 86305	Alvin Stump	928-777-5861	astump@azdot.gov
Safford District	2082 U.S. Hwy. 70, Safford, AZ 85546	Bill Harmon	928-428-5470	bharmon@azdot.gov
Tucson District	1221 South 2 nd Ave., Tucson, AZ 85713-1602	Roderick Lane	520-388-4219	rlane@azdot.gov
Yuma District	2243 East Gila Ridge Road, Yuma, AZ 85365-2101	Paul Patane	928-777-5861	ppatane@azdot.gov



Appendix D

AZPDES Permit Renewal Report



Engineering and Environmental Consultants, Inc.

7740 N. 16th Street, Suite 135 | Phoenix, Arizona 85020 | Tel 602.248.7702 | Fax 602.248.7851

June 14, 2013

Ms. Wendy Terlizzi Water Quality Manager Arizona Department of Transportation 1611 West Jackson St, Mail Drop EM02 Phoenix, AZ 85007-3217 Via email to: WTerlizzi@azdot.gov SWaite@azdot.gov Original is **NOT** being mailed

Re: Summary of Arizona Pollutant Discharge Elimination System (AZPDES)
Permit Renewal Application Items – Stormwater Characterization
Contract Number T0804P0002
EEC Job No. 308032.22

Dear Ms. Terlizzi:

Engineering and Environmental Consultants, Inc. (EEC) is pleased to provide a summary of requested stormwater sampling information to Arizona Department of Transportation (ADOT) in order to assist with the completion of the Arizona Pollutant Discharge Elimination System (AZPDES) permit renewal application. This letter contains an introduction and purpose, discharge characterization of the five MS4 outfall locations, existing quantitative data taken from the outfall locations, characterization of the data, assessment of the controls and a conclusion.

Introduction and Purpose

EEC has been contracted by ADOT to assist with the preparation of several AZPDES Permit Renewal Application items. These items generally include historical data associated with stormwater discharge and characterization of ADOTs Municipal Separate Storm Sewer System (MS4). The purpose of this submittal is to provide support documentation for the following four AZPDES permit renewal task items:

- Task 1 Discharge Characterization: Monthly mean rain/snowfall estimates and monthly average number of storm events
- Task 2 Existing Quantitative Data: Volume and quality of discharges including a description of outfalls sampled, sampling procedures, and analytical methods.
- Task 3 Characterization Data: Quality and quantity of discharges to include pollutant loading estimates.
- Task 4 Assessment of Controls: Estimated reductions in loading of pollutants from discharges of the MS4.

EEC has addressed the renewal application request for information regarding discharge characterization of the five MS4 monitoring locations, existing quantitative data for each MS4 monitoring locations, characterization of the data and assessment of the controls.

Task 1 - Discharge Characterization

The monthly mean rainfall and the monthly average number of storm events are provided in Attachment 1. Data sources include each MS4 monitoring location and/or local municipality source where and when available. Rain events were qualified by as having 0.1 inches of precipitation separated by at least 24 hours from the previous event.

Task 2 - Existing Quantitative Data

Existing quantitative data obtained from the MS4 stormwater sampling efforts includes the volume and quality of discharge from the five MS4 monitoring locations. A description of the volume and quality of discharge, description of outfalls, stormwater sampling procedures, and analytical methods is provided in Table 1 below.

Volume and Quality of Discharge

The volume and quality of discharge from the MS4 monitoring locations is provided in table format in Attachment 2. The table includes ADOT monitoring parameters and the associated laboratory results collected over the monitoring seasons during the time period of 2009 through 2012.

Descriptions of Outfalls

Site maps of the five MS4 monitoring locations are included in Attachment 3. The table below identifies the five ADOT MS4 monitoring locations followed by a narrative description of each one.

Table 1: ADOT MS4 Monitoring Locations

OUTFALL NAME	PHYSICAL LOCATION	APPROXIMATE DRAINAGE AREA	LAND USE	RECEIVING WATER/ DESIGNATED USE	MONITORING EQUIPMENT
B40-196.14	Flagstaff: South side of intersection at Business 40 and SR180	29.30 Acres	Rural Highway (80%) &	Rio de Flag / A&Wedw	ISCO Avalanche Full-Size Portable Sampler
D40-190.14	Latitude: 35°11'53.39"N Longitude: 111°39'05.48"W	29.30 Acres	Commercial Streets (20%)	PBC	(refrigerated unit)
404 40 00	Phoenix (Peoria): Loop 101 Mile marker 13.68; East side		Urban Highway (90%) &	Skunk Creek / A reach of Cave	ISCO 6712 Full-Size
101-13.68	Latitude: 33°37'19.84"N Longitude: 112°14'21.61"W	17.5 Acres	Commercial Streets (10%)	Creek/ A&Wedw PBC	Portable Sampler
82.0.57	Nogales: Intersection of I-19 and SR82 in NE quadrant	59.5 Acres	Urban Highway (80%) &	Nogales Wash (Impaired waterway) /	ISCO 6712 Full-Size Portable Sampler
02.0.31	Latitude: 31°21'02.10"N Longitude: 110°55'24.48"W	55.5 Acres	Residential Streets (20%)	A&Ww PBC	(refrigerated unit)
470 040 0	Sedona: At SR-179 bridge over Oak Creek; West side	705 4222	State Route/Business	Oak Creek (Outstanding	ISCO Avalanche Full-Size Portable
179-313.3	Latitude: 34°51′43.93″N Longitude: 111°45′42.68″W	7.35 Acres	Route (90%) & Commercial (10%)	waterway) / A&Wc FBC, FC, AgL	Sampler (refrigerated unit)
10-255.8	Tucson: I-10 & Grant Rd, within Grant Rd. Maintenance Yard	4.8 Acres	Urban Highway (90%) & ADOT	Santa Cruz / A&Wedw	ISCO 6712 Full-Size
10-255.6	Latitude: 32°15'17.19"N Longitude: 110°59'49.39"W	4.0 Acies	Facility (10%)	PBC	Portable Sampler

A&Wedw - Aquatic and Wildlife (effluent-dependent water)

A&Ww – Aquatic and Wildlife warmwater A&Wc – Aquatic and Wildlife coldwater

AgL - Agricultural Livestock Watering

FBC – Full Body Contact FC – Fish consumption PBC – Partial Body Contact

- Outfall B40-196.14 This outfall discharges into Rio de Flag located along the south side of the intersection at N. Humphreys. St. and E. Santa Fe Ave. at Business 40 mile marker 196.14 in Flagstaff, Arizona. The associated drainage channel to this outfall consists of a 36 inch Corrugated Metal Pipe (CMP). The drainage area for this outfall is approximately 29.30 acres and associated land use consists of approximately 80% rural highway and 20% commercial streets. The designated receiving water use for Rio de Flag is Aquatic and Wildlife (effluent-dependent water) and Partial Body Contact. Sampling equipment consists of an ISCO Avalanche Full-Size Portable Sampler, flow sensor, rain gauge, and modem.
- Outfall 101-13.68 This outfall discharges into Skunk Creek and is located approximately 500 feet west of N. 83rd Ave. and 550 feet north of W. Country Gables Dr. along the east side of the Loop 101 at mile marker 13.68 in Peoria, Arizona, which characterizes stormwater from the Phoenix metropolitan region. The associated drainage channel to this outfall consists of a 22 foot wide and 4 foot deep trapezoidal channel. The drainage area for this outfall is approximately 17.5 acres and associated land use consists of approximately 90% urban highway and 10% commercial street/parking runoff. Skunk Creek has no designated receiving water use, but is considered a reach of Cave Creek which is designated for use as Aquatic and Wildlife, Partial Body Contact, and Agricultural Livestock Watering. Sampling equipment consists of an ISCO 6712 Full-Size Portable Sampler, flow sensor, rain gauge, and modem.
- Outfall 82.0.57 This outfall discharges into Nogales Wash and is located on the north side of E. Morley Ave. and approximately 150 feet northwest of SR-82 at mile marker 0.57 in Nogales, Arizona. The associated drainage channel to this outfall consists of a 48 inch below grade storm drain that discharges via through two concrete-lined 8 foot by 5 foot Concrete Box Culvert (CBC). The drainage area for this outfall is approximately 59.5 acres and associated land use consists of approximately 80% urban highway and 20% residential streets. Nogales Wash is an impaired waterway and designated receiving water use is designated for use as Aquatic and Wildlife (warmwater) and Partial Body Contact. Sampling equipment consists of an ISCO 6712 Full-Size Portable Sampler, flow sensor, rain gauge, and modem.
- Outfall 179-313.3 This outfall discharges into Oak Creek and is located on the west side beneath the SR-179 Bridge that passes over Oak Creek at SR-179 mile marker 313.3 in Sedona, Arizona. The associated drainage channel to this outfall consists of an approximately 47 inch CMP. The drainage area for this outfall is approximately 7.35 acres and associated land use consists of approximately 90% state/business route and 10% commercial streets. Oak Creek is an outstanding waterway and designated receiving water use is for Aquatic and Wildlife (coldwater), Full Body Contact, Fish consumption and Agricultural Livestock Watering. Sampling equipment consists of an ISCO Avalanche Full-Size Portable Sampler, flow sensor, rain gauge, and modem.
- Outfall 10-255.8 This outfall discharges into Santa Cruz and is located approximately 30 feet west of I-10 and 1,600 feet (0.03 miles) north of W. Grant Road, within the ADOT Grant Road Maintenance Yard at I-10 mile marker 255.8 in Tucson, Arizona. The associated drainage channel to this outfall is a CBC. The drainage area for this outfall is approximately 4.8 acres and associated land use consists of approximately 90% urban highway and 10% ADOT facility. The designated receiving

water use for Santa Cruz is Aquatic and Wildlife (effluent-dependent water) and Partial Body Contact. Sampling equipment consists of an ISCO 6712 Full-Size Portable Sampler, flow sensor, rain gauge, and modem.

Stormwater Sampling Procedures

Stormwater sampling is conducted in accordance with ADOT's Stormwater Monitoring Guidance Manual for MS4 Activities, dated July 2009. A representative sample is collected once each wet season for each of the five monitoring locations. The wet season is identified as June 1–October 31 (summer) and November 1–May 31 (winter). A representative storm event consists of greater than 0.1 inch of rainfall and that occurs at least 72 hours after the previously measurable (greater than 0.1 inch of rainfall) storm event. Sampling efforts include the "first flush" (first 30 minutes of stormwater discharge) when possible and conducted over the first 3 hours of the discharge or for the entire discharge period, if the discharge is less than 3 hours. Sampling procedures generally include:

- · Discrete manual samples for cyanide, oil and grease, TPH, E. coli, and VOCs
- · Flow-weighted composite samples via the Isco sampler for all other parameters
- Filed measurements for flow, pH, and temperature

The collected sample is then placed into appropriate sample jars by the field technician and transported under chain-of-custody to a state-certified laboratory for analysis. Additional sampling protocol is further defined in ADOT's Quality Assurance Manual to include collection methods, quality assurance/quality control (QA/QC) samples, preservative to use, and holding times for the samples.

Analytical Methods

Stormwater sampling parameters and analytical methods are provided in table format in Attachment 4.

Task 3 - Characterization Data

A summary table of the qualitative data obtained during sampling activities of the five ADOT MS4 monitoring locations is provided in Attachment 2. Pollutant loading estimates for required chemical constituents for the sampling years 2009 through 2012 are provided in Attachment 5. Pollutant loading estimates were calculated using the Simple Method which estimates pollutant loads for chemical constituents as a product of annual runoff volume and pollutant concentration using the following equation:

L = 0.226 * R * C * A

Where:

L = Annual loads (lbs)

R = Annual runoff (inches)

C = Pollutant concentration (mg/l)

A = Area (acres)

0.226 = Unit conversion factor

The equation used for calculating bacteria pollutant loading is slightly different as follows:

L = 103 * R * C * A

Where:

L = Annual loads (Billion Colonies)

R = Annual runoff (inches)

C = Bacteria concentration (col/100ml)

A = Area (acres)

103 = Unit conversion factor

Site specific data from each MS4 monitoring location is used to calculate pollutant loading.

Task 4 - Assessment of Controls

Assessment in the reduction in pollutant loading from the result of ADOT's stormwater quality management program is currently difficult to assess due to the limited data from the five MS4 monitoring locations. The qualitative results will require additional time to qualify the outcome of ADOT's ongoing programs in comparison to end of pipe analyses. However, a review of available sampling data from Attachment 2 indicates the following most common constituents in stormwater highway runoff:

- Biological Oxygen Demand (BOD)
- Chemical Oxygen Demand (COD)
- Total Suspended Solids (TSS)
- Total Dissolved Solids (TDS)
- Total Nitrogen
- Total Kjeldahl Nitrogen (TKN)
- Total Petroleum Hydrocarbons (TPH)
- Total Phosphorous
- Various metals (cadmium, lead, copper, zinc)

ADOT's ongoing program of street sweeping and trash removal within its MS4 has been successful at removing these items from entering its stormwater drainage system and thus into waterways. However, data is currently not available to correlate these activities to reduction in pollutants through the monitoring program. No impacts to groundwater have been identified from a result of stormwater controls.

Should you have any questions or require additional information, please contact me at (602) 248-7702, Extension 7319.

Sincerely,

ENGINEERING AND ENVIRONMENTAL CONSULTANTS, INC.

John P. Burton

John P. Bute

Project Manager

Jim D. Lemon, P.E.

Vice President/Phoenix Branch Manager

Attachments:

Attachment 1 - Monthly Mean Rainfall and Storm Events

Attachment 2 - MS4 Characterization Sampling Data

Attachment 3 - MS4 Monitoring Location Site Maps

Attachment 4 - MS4 Stormwater Sampling Parameters and Analytical Methods

Attachment 5 - MS4 Pollutant Loading Calculations

Attachment 1 Monthly Mean Rainfall and Storm Events

																				Pho	enix MS4	l - Monthl	ly Mean F	Rainfall and	d Storm I	vents																		
	Total Rainfall	Monty Average Rainfall	Monthly Aven	Total Rainfall	Montly Average Rainfall	Total Number of Storm Events Monre.	Total Rainfall	Monty Average Rainfall	Total Number of Storm Events	Monthly Average Number of Storm Events	Total Rainfall	Monty, Average Rainfall Total Number	Monthly Average	Total Rainfall	Monty Average Rainfall	Total Number of Storm Events	Monthly Average Number of Storm Euro	Total Rainfall	Montly Average Rainfall	Total Number of Storm Events Monte.	Total Roce	Monty Aus	Total Numb.	Monthly Average as	Total Rainfall	Monty Average Rainfall	Total Number of Storm Events	Monthly Average Number of Storm	Total Rainfall	Montly Average Rainfall	Total Number of Storm Events	Monthly Average Number of Storm Events	i Otal Rainfair Montiv. A.	Total Number of Storm Events	Monthly Average Number of c.	Total Rainfall	Monty Ave.	Total Number of Storn Events	Monthly Average Nim.	Total o.	······································	Total Number of Storm	Monthly Average Number of Ston	The street of th
	Year	Janua	ary		Febru	iary		N	March			April				May			June	•			July			Aı	ugust			Septer	nber			October				November	/			December		Year
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	2010 3.58	1.79	2 1	1.78	0.59	3	1 1.2		2	1	0.00	0.00	0 0	0.00	0.00	0	0	0.00	0.00	0	0 1	1.65 0	1.55	3 1	0.6	4 0.21	3	1	0.00	0.00	0).75 1	1	0.00	0.	00 0			1.93 0.0	64 3	1	2010
	2011 0.00	0.00	0 (0.95	0.48	2	1 0.1			1		0.16	1 1	1 0.04	0.04	1	1	0.00	0.00	0	0 (0.80	1.27	3 1	0.0	9 0.05	2	1	0.10	0.03	3			0.02 3	1	0.53	3 0.	.18 3			0.74 0.		1	2011
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^{*} Dash (-) indicates monitoring equipment was not operating

ASSUMPTIONS:

* Storm Event = .10 or more

* Separate Storm Event = storm events must be separated by 24 hours

*Monthly mean divided by number of wet days

																				Flag	gstaff MS	4 - Month	lly Mean R	ainfall an	d Storm	Events																			
,	Total Rainfall	Montly Average Rainfall	Total Number of Storn Evens	Total Rainfall	Monty Average Rainfall	Total Number of Storm Events Montes	Total Rainfall	Montly Average Rainfall	Total Number of Storm Events	Monthy Average Number of Storn Evens	Total Rainfall	Montly Average Rainfall	Monthly Average Number	Total Reserve	Montka	Total Number	Monthly Average A.	Total Rainfall	Monty Average Rainfay	Total Number of Storm Evens	Monthy Average Number of St.	Total Rainfall	Montly Average Rainfall	Total Number of Storm Events	Monthy Average Number of Storm Even	Total Rainfall Montu.	Total Number As	Monthly Average Number of	Total Rainfall	Montly Average Rainfall	Total Number of Storm Events	Monthy Average Number of Storm E.	Total Rainfall	Monthy Average Rainfall	'Otal Number of Storm Events	Monthy Average Number of Storn Events	Total Rainfall	Montly Average Rainfall	Total Number of Storm Events	Monthly Average Number of Storm Events	Total Rainfall	Montly Average Rainfall	Total Number of Storm Events	Monthy Average Number of Storn Evens	
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2012	0.00	0.00	0	0.01	0.00	0	0 0.41	0.21	2	1	0.67	0.34	2 1		.00 1	65 0	0	0.00	0.00	0	0	3.32	1.11	3	1	3.42 3	.42 1	. 1	0.55	0.55	1	1	0.80	0.80	1	1	0.01	0.00	0	0	0.33	0.17	2		012
2013	1.65	1.65	1	1 0.04	0.00	0	0 0.25	0	1	1	0.11	0	1 1		.17 1	65 0	0	-				-	-		-			-	-	-		-			-	-	-	-	-	-		-	-	- 2	013
Monthly Average	0.83	0.83	1	1 0.03	0.00	0	0 0.33	0.23	2	1	0.39	0.22	2 1		.09 1	65 0	0	0.00	0.00	0	0	2.09	0.70	3	1	2.25 1	.89 2	! 1	1.36	0.64	2	1	0.91	0.65	2	1	0.01	0.00	0	0	0.21	0.08	1	1 1	Ionthly Average

^{*} Dash (-) indicates monitoring equipment was not operating

ASSUMPTIONS:

* Storm Event = .10 or more

* Scparate Symm Event = storm events must be separated by 24 hours

*Monthly mean divided by number of wet days

																							Nogal	les MS4 -	- Monthly	Mean Ra	ainfall and	Storm E	vents																					
	Total Rainfall	Montly Average Rains	Total Number of Sire.	Monthly Average Number of s.	Total Rainfall	Monty Average Rainfay	Monte.	Total Rains	Mones	Total IV.	-ur Number of Storm Events Manuel	monthly Average Number of Storm Events	'otal Rainfall	Montly Average Rainfall	I otal Number of Storm Events Monthly Aux	rverage Number of Storm Events	Total Rainfall	Monty Average Rainfall	Total Number of Storm Evense	Monthly Average Number of Storm E	Total Rainfail	Montly Average Rainfail	Total Number of Storm Events	Monthly Average Number of Storm E	Total Rainfall	Monty Average Rainfall	Total Number of Storm Events	Monthly Average Number of Storm E	Total Rainfall	Monty Average Rainfail	-ar Number of Storm Events Manual	Total in Total in Events	Month, a.	T Merage Rainfall	Monthly A	Total P.	Montly A.	Total M	rumber of Storm Events	Monthly Average Number of Storm Evens	Total Rainfall	Monty Average Rains	Total Number of Storm Func	cvents	Monthly Average Number of Storm Events	Total Rainfall	Montly, Average Rainfall	Total Number of Storm Events	Monthly Average Number of Storm E	SIUBA3
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	2012 -	-	-		-	-	-	-	-		-			-	-	-	-	-	-	-	-	-		-	-		-	-	2.03	1.02	2	2	2.43 (0.81	3	1 (.01 0	.00	0	0	0.20	0.10) 2	2	1	1.15	1.02	2	2	2012
	2013 0.85	5 0.8	5 1	1	0.55	0.28	2	1 0	0.18	0	1	1	0.00	0	0	0	0.01	0.00	0	0	0.00	0.00	0	0			-										-		-	-		-		-	-		-	-		2013
Monthly Average	0.85	- 00	5 1	1	0.55	0.26	,	1 0	110	0.19	1	1	0.00	0.00		0	0.01	0.00	0	0	0.00	0.00		0					2.02	1 02	,	,	2 42 0	1 91	2	1 (01 0	00		0	0.20	0.10	a	,	1	1 15	1.02	,	-	Monthly Average

^{*} Dash (-) indicates monitoring equipment was not operating

ASSUMPTIONS:
* Storm Event = .10 or more
* Separate Storm Event = storm events must be separated by 24 hours
*Monthly mean divided by number of wet days

																									Se	dona MS	S4 - Monti	hly Mea	an Rainfa	l and Sto	orm Even	ts																					
	Total Rainfall	Мон	monthy Average Rainfay	Total Number of Storm Events	Monthly Average Number of Storm Evac.	Total Rainfall	Monty Average Rainfall	od Number of Storm Events	Town	'Cal Rainfall	Montly Average Rainfall	Total Number of Storm Events	Monthly Average Number of c.	Total Rainfall	Monty Average Rainfay	Total Number of Storm c.	Monthly Average Number of Stor	Total Rains	Welliam.	Tons.	odal Number of Storm Events	onthly Average Number of Storm Evens	Total Rainfall	Monty Average Rainfall	Total Number of Storm Euro	Monthly Average Nums.	Total Rainfall	Monty Average Raine.	Total Number of	Monthly A.	Total Rain.	Monty Avera	Total Number	Monthly Average	Total Rains."	Monty	"r Average Rainfall	oral Number of Storm Events	Monthly Average Number of Storm Evans	Total Rainfall	Monty Average Rainfall	Total Number of Storm Events	Monthly Average Numbo.	Tors.	Ola Rainfall	Ton-s.	Obl Number of Storm Events	Monthly Average Number of Storn Events	Total Rainfall	Monty Average Rainfay	Total Number of Storm Eu-	Monthy Average Number of c.	SIGNA ENGLIS
)	ear		January	У			February	у			Marc	ch			April					May				Jui	ne		1	/ /	July				August				Septemb	er				October				No	ovember	/		De	ecember		Year
2	- 800	. —	-	-	-	-	-	-			-	-	-	-	-	-	-			-	-	-	-	-	-	-	-	-			-			-				-	-	-	-	-			-	-	-	-	-	-	-		2008
2	- 009			-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	-	-	-				-					-		-	-	-	-	-		-	-	-		-	-		-		2009
2	010 -		-	-	-	-	-		-	-		-	-	-		-			-	-	-	-	-	-	-	-	-				-					-	-	-	-	-				-		-	-	-		-	-	-	2010
2	011 -		-	-	-	-	-		-	-		-	-	-		-			-	-	-	-	-	-	-	-	-				-				-		-	-						-		-	-	-		-	-	-	2011
2	0.0	00	0.00	0	0	0.13	0.13	1	1		-	-	-	-	-	-	-			-	-	-	-	-	-	-	-					-		-		0.00 0	0.00	0	0	0.55	0.55	1	1	1	0.63	0.63	1	1	2.04	0.51	4	1	2012
2	1.8	84	1.84	1	1	0.71	0.36	2	1	1.73	1.73	1	1	0.07	0.00	0	0	0	0.00	0.00	0	0	0.03	0.00	0	0	-				-					-		-	-	-	-	-		-	-	-		-	-		-		2013
Monthly Average	0.9	92	0.92	1	1	0.42	0.24	2	1	1.73	1.73	1	1	0.07	0.00	0	0	0	0.00	0.00	0	0	0	0	0	0	-	-			-		-	-	0.	00 0	0.00	0	0	0.55	0.55	1	1	1	0.63	0.63	1	1	2.04	0.51	4	1	Monthly Average

^{*} Dash (-) indicates monitoring equipment was not operating

ASSUMPTIONS:

* Storm Event = .10 or more

* Separate Storm Event = storm events must be separated by 24 hours

*Monthly mean divided by number of wet days

																							Tuc	son MS4	- Monthly	Mean Ra	ainfall and	Storm Ev	ents																				
	Total Rainfall	Monty Average	Tolahu.	Month.	Total Rains	Monty A	Total Number of Storm c	Monthly Average Nums.	Total Rainfail	Monty Average Rainfall	Total Number of Storm Evens	Monthly Average Number of c.	Total Rainfall	Monty, Average Rainfail	Total Number of Storm Events	Monthly Average Number of Storn Events	Total Rainfall	Monty Average Rainfall	Total Number of Storm Evens	Monthly Average Number 26.	Total Rainfall	Monty Average Rainfall	Total Number of Storm Events	Monthly Average Number of c.	Total Rainfall	Montly Average Rainfall	Total Number of Storm Events	Monthly Average Number of Storm Even	Total Rainfall Macco	Total Nume.	Monthly Avera.	Total Rainfall	Monty Average B.	Total Number of Stree	Monthly Average Nums.	Total Rainfail	Молиу, Average Rainfay	Total Number of Storm Events	Monthly Average Number of c.	Total Raine	мон	Total Numbra.	"""Der of Storm Events	Monthly Average Number of Storm Events	Total Rainfail	Montly Average Rainfall	l otal Number of Storm Events	Monthly Average Number of Storm Events	
	ear		January				February			M	arch		4	April					May				une			Ji	ıly			August	t		S	eptember				October			/	Nover	:mber			Decemb		Ye	
	- 800		-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	- 20	008
2	- 009		-	-	-	-		-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-		-	-	-	-		-	-	-	-		-	-	- 20	009
	010 -		-		-	-		-	-		-		-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-			-				-	-	-	-		-	-	-	-		-		- 20	010
2	011 -		-	-	-	-		-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	0.32	0.32	1	1	0.58	0.29	2 1	2.1	1.0	5 2	1	0.14	0.14	1	1	1 1	1.07 0	0.47	3	1	1.84	0.61	3	1 20)11
1	0.22	2 0	0.22	1	1 0.	06 0	.00 0	0	0.47	0.47	1	1	0.10	0.10	1	1	0.00	0.00	0	0	0.52	0.26	2	1	2.28	0.46	5	1	3.56	1.78	2 1	0.1	16 0.1	5 1	1	0.00	0.00	0	0	0 ر	0.32 0	0.47	1	1	0.96	0.48	2	1 20)12
	0.70	0 0	0.70	1	1 0.	80 0	.27 3	1	0.06	0.00	0	0	0.13	0.13	1	1	0.01	0.00	0	0	0.00	0.00	0	0	-			-								-		-					-	-		-			
Monthly Average	0.46	6 0	1 46	1	1 0	42 N	12 2	1	0.27	0.24	1	1	0.12	0.12	1	1	0.01	0.00			0.26	0.12	1	1	1 20	0.30	2	1	2.07 1	1 04	2 1	11	4 06		1	0.07	0.07	1	1		0.70 0	0.47	2	1	1.40	0.55	2	1 M	onthly Average

^{*} Dash (-) indicates monitoring equipment was not operating

ASSUMPTIONS:

* Storm Event = .10 or more

* Separate Storm Event = storm events must be separated by 24 hours

*Monthly mean divided by number of wet days

Attachment 2 MS4 Characterization Sampling Data

OUTFALL ID: 101-13.68

RECEIVING WATER: Skunk Creek (a reach of Cave Creek)

MONITORING SEASONS

Summer: June 1- October 31

NECEIVING WATER. Skullk Creek (a reach of Ca	ive Oreck)				Su	mmer: Ju	ine 1- Octob	er 31			
WATERSHED: Middle Gila					Wi	nter: Nov	ember 1- Ma	y 31			
DESIGNATED USES: A&We, PBC		Permi	t Year 1	Permit	Year 2	Perm	nit Year 3	Permit	Year 4	Permit	Year 5
AUTOSAMPLER STARTUP DATE: July 13, 2011		Winter	Summer	Winter	Summer	Winter	Summer	Winter	Summer	Winter	Summer
(previous sampling conducted with passive sam	plers)	2008-09	2009	2009-10	2010	2010-11	2011	2011-12	2012	2012-13	2013
SAM	PLING DATE	12/17/08	7/21/09	2/28/10	NS	NS	NS	11/5/11	EF/NS	12/14/12	Pending
MONITORING PARAMETERS	wqs										
Flow (gpm = gallons per minute)	NNS	1.7gpm	1.4gpm	-	NS	NS	EF/NS	42	EF/NS	117	
рН	5.0-9.0	7.75	7.21	8.52	NS	NS	EF/NS	7.23	EF/NS	7.2	
Temperature (F°)	NNS	54.4	96.9	56.5	NS	NS	EF/NS	57.2	EF/NS	62.3	
Hardness	NNS	180	-	60	NS	NS	EF/NS	IS	EF/NS	130	
Specific conductance (mg/L)	NNS	550	900	1500	NS	NS	EF/NS	IS	EF/NS	320	
Total Dissolved Solids (TDS) (mg/L)	500.00	290	720*	97	NS	NS	EF/NS	IS	EF/NS	310	
Total Suspended Solids (TSS) (mg/L)	NNS	85		76	NS	NS	EF/NS	IS	EF/NS	53	
Turbidity (NTU)	NNS	49	21	100	NS	NS	EF/NS	IS	EF/NS	130	
Biochemical Oxygen Demand (BOD) (mg/L)	NNS	13	40	<5.0	NS	NS	EF/NS	IS	EF/NS	68	
Chemical Oxygen Demand (COD) (mg/L)	NNS	110	350	70	NS	NS	EF/NS	IS	EF/NS	420	
Surfactants (mg/L)	NNS	NS	NS	NS	NS	NS	EF/NS	IS	EF/NS	0.89	
Inorganics											
Cyanide (mg/L)	0.20	<0.0050	<0.0050	<0.0050	NS	NS	EF/NS	<0.0080	EF/NS	< 0.0050	
Sulfates (mg/L)	250.00	56	69	7.6	NS	NS	EF/NS	IS	EF/NS	26	
Nutrients											
Nitrate (mg/L)	10.00	3.3	4	1.1	NS	NS	EF/NS	IS	EF/NS	2.5	
Nitrite (mg/L)	1.00	0.19	0.77	<0.10	NS	NS	EF/NS	IS	EF/NS	0.34	
Total Ammonia (mg/L)	NNS	NS	NS	NS	NS	NS	EF/NS	IS	EF/NS	4.1	
Total Kjeldahl Nitrogen (TKN) (mg/L)	NNS	3	12	1.5	NS	NS	EF/NS	IS	EF/NS	9.1	
Total Phosphorous (mg/L)	NNS		1.1	0.25	NS	NS	EF/NS	IS	EF/NS	0.92	
Phosphate, Ortho (mg/L)	NNS	<0.12	0.46	0.48	NS	NS	EF/NS	IS	EF/NS	1.8	
Sodium (mg/L)	NNS	49	85	1.3	NS	NS	EF/NS	IS	EF/NS	15	
Calcium (mg/L)	NNS	46	64	150	NS	NS	EF/NS	IS	EF/NS	41	
Chloride (mg/L)	NNS	69	130	6.9	NS	NS	EF/NS	IS	EF/NS	16	
Microbiological											
Coliform, fecal (col/100 ml)	NNS	>1,200	-	>200	NS	NS	EF/NS	IS	EF/NS	>400	
E.Coli (MPN/100 ml)	100.00	>24,200	-	-	NS	NS	EF/NS	170	EF/NS	>2400	

RECEIVING WATER: Skunk Creek (a reach of Ca	ve Creek)				Su	mmer: Ju	ne 1- Octobe	er 31			
WATERSHED: Middle Gila					Wi	nter: Nov	ember 1- Ma	y 31			
DESIGNATED USES: A&We, PBC		Permi	t Year 1	Permit	Year 2	Perm	it Year 3	Permit	Year 4	Permit	Year 5
AUTOSAMPLER STARTUP DATE: July 13, 2011		Winter	Summer	Winter	Summer	Winter	Summer	Winter	Summer	Winter	Summer
(previous sampling conducted with passive sam	plers)	2008-09	2009	2009-10	2010	2010-11	2011	2011-12	2012	2012-13	2013
SAM	PLING DATE	12/17/08	7/21/09	2/28/10	NS	NS	NS	11/5/11	EF/NS	12/14/12	Pending
Total Metals											
Antimony (mg/L)	0.006	<0.020	0.0037	<0.020	NS	NS	EF/NS	IS	EF/NS	<0.020	
Arsenic (mg/L)	0.050	<0.021	0.0064	<0.020	NS	NS	EF/NS	IS	EF/NS	<0.020	
Barium (mg/L)	2.000	0.098	0.14	0.074	NS	NS	EF/NS	IS	EF/NS	0.13	
Beryllium (mg/L)	0.004	<0.0020	<0.0020	<0.0020	NS	NS	EF/NS	IS	EF/NS	<0.0020	
Cadmium (mg/L)	0.005	< 0.0050	<0.0050	< 0.0050	NS	NS	EF/NS	IS	EF/NS	< 0.0050	
Chromium (mg/L)	0.100	<0.010	<0.010	<0.010	NS	NS	EF/NS	IS	EF/NS	0.023	
Copper (mg/L)	1.300	0.023	0.073	<0.020	NS	NS	EF/NS	IS	EF/NS	0.090	
Lead (mg/L)	0.015	0.0084	0.006	0.0064	NS	NS	EF/NS	IS	EF/NS	0.0084	
Mercury (mg/L)	0.002	<0.00020	<0.00020	<0.0002	NS	NS	EF/NS	IS	EF/NS	<0.00020	
Nickel (mg/L)	0.140	<0.020	<0.020	<0.020	NS	NS	EF/NS	IS	EF/NS	0.025	
Selenium (mg/L)	0.020	<0.020	<0.020	<0.020	NS	NS	EF/NS	IS	EF/NS	<0.020	
Silver (mg/L)	NNS	<0.010	<0.010	<0.010	NS	NS	EF/NS	IS	EF/NS	<0.010	
Zinc (mg/L)	2.10	0.053	0.14	4.7	NS	NS	EF/NS	IS	EF/NS	0.25	
Organic Toxic Pollutants											
Total Petroleum Hydrocarbons (TPH) (mg/L)	NNS	0.73	2.7	0.32	NS	NS	EF/NS	0.29	EF/NS	<5.0	
Oil & Grease (Hexane Extr) (mg/L)	NNS	<5.0	<5.9	<5.3	NS	NS	EF/NS	7.3	EF/NS	<5.0	
Chlorine, residual (mg/L)	0.70000	0.2	<0.10	<0.10	NS	NS	EF/NS	IS	EF/NS	<5.0	
BTEX Compounds											
Benzene (mg/L)	0.0050	<0.00050	<0.00050	<0.0010	NS	NS	EF/NS	<0.50	EF/NS	<0.00050	ANR
Ethylbenzene (mg/L)	0.0050	0.00068	<0.00050	<0.0010	NS	NS	EF/NS	<1.0	EF/NS	<0.00050	ANR
Toluene (mg/L)	1.00	<0.0050	<0.0050	<0.0050	NS	NS	EF/NS	<1.0	EF/NS	<0.0050	ANR
Total Xylene (mg/L)	10.00	0.0039	<0.0015	<0.0030	NS	NS	EF/NS	<1.5	EF/NS	<0.0015	ANR

RECEIVING WATER: Skunk Creek (a reach of Ca	ve Creek)				Su	mmer: Ju	ne 1- Octobe	er 31			
WATERSHED: Middle Gila					Wi	nter: Nov	ember 1- Ma	y 31			
DESIGNATED USES: A&We, PBC					· · · · · · · · · · · · · · · · · · ·				V 4	B	V 5
AUTOSAMPLER STARTUP DATE: July 13, 2011		Winter	t Year 1 Summer	Permit ` Winter	Year 2 Summer	Winter	nit Year 3 Summer	Winter	Year 4 Summer	Winter	Year 5 Summer
(previous sampling conducted with passive sam	plers)	2008-09	2009	2009-10	2010	2010-11	2011	2011-12	2012	2012-13	2013
SAM	PLING DATE	12/17/08	7/21/09	2/28/10	NS	NS	NS	11/5/11	EF/NS	12/14/12	Pendina
Acid Compounds											
2-Chlorophenol (mg/L)	0.035	<0.010	<0.010	<0.010	NS	NS	EF/NS	IS	EF/NS	<0.010	ANR
2,4-Dichlorophenol (mg/L)	0.021	<0.010	<0.010	<0.010	NS	NS	EF/NS	IS	EF/NS	<0.010	ANR
2,4-Dimethylphenol (mg/L)	0.140	<0.010	<0.010	<0.010	NS	NS	EF/NS	IS	EF/NS	<0.010	ANR
4,6-Dinitrocreosol (mg/L)	NNS	NS	NS	NS	NS	NS	EF/NS	IS	EF/NS	<0.010	ANR
2,4-Dinitrophenol (mg/L)	0.014	<0.010	<0.010	<0.010	NS	NS	EF/NS	IS	EF/NS	<0.010	ANR
2-Nitrophenol (mg/L)	NNS	<0.010	<0.010	<0.010	NS	NS	EF/NS	IS	EF/NS	<0.010	ANR
4-Nitrophenol (mg/L)	NNS	<0.010	<0.010	<0.010	NS	NS	EF/NS	IS	EF/NS	<0.010	ANR
P-Chloro-m-cresol (mg/L)	NNS	NS	NS	NS	NS	NS	EF/NS	IS	EF/NS	<0.010	ANR
Pentachlorophenol (mg/L)	0.001	<0.010	<0.010	<0.010	NS	NS	EF/NS	IS	EF/NS	<0.010	ANR
Phenol (mg/L)	4.20	<0.010	<0.010	<0.010	NS	NS	EF/NS	IS	EF/NS	<0.010	ANR
2,4,6-Trichlorophenol (mg/L)	0.00320	<0.010	<0.010	<0.010	NS	NS	EF/NS	IS	EF/NS	<0.010	ANR
Bases/Neutrals											
Acenaphthene (mg/L)	0.42	<0.0010	< 0.010	<0.0010	NS	NS	EF/NS	IS	EF/NS	<0.0010	ANR
Acenaphthylene (mg/L)	NNS	<0.0010	<0.010	<0.0010	NS	NS	EF/NS	IS	EF/NS	<0.0010	ANR
Anthracene (mg/L)	2.10	<0.0010	<0.010	<0.0010	NS	NS	EF/NS	IS	EF/NS	<0.0010	ANR
Benzo(a)anthracene (mg/L)	0.00190	<0.0010	<0.010	<0.0010	NS	NS	EF/NS	IS	EF/NS	<0.0010	ANR
Benzo(a)pyrene (mg/L)	0.00020	<0.0010	<0.010	<0.0010	NS	NS	EF/NS	IS	EF/NS	<0.0010	ANR
Benzo(b)fluoranthene (mg/L)	NNS	<0.0010	<0.010	<0.0010	NS	NS	EF/NS	IS	EF/NS	<0.0010	ANR
Benzo(g,h,i)perylene (mg/L)	NNS	<0.0010	<0.010	<0.0010	NS	NS	EF/NS	IS	EF/NS	<0.0010	ANR
Benzo(k)fluoranthene (mg/L)	0.0480	<0.0010	<0.010	<0.0010	NS	NS	EF/NS	IS	EF/NS	<0.0010	ANR
Chrysene (mg/L)	0.00479	<0.0010	<0.010	<0.0010	NS	NS	EF/NS	IS	EF/NS	<0.0010	ANR
Dibenzo(a,h)anthracene (mg/L)	0.00190	<0.0010	<0.010	<0.0010	NS	NS	EF/NS	IS	EF/NS	<0.0010	ANR
Diethyl phthalate (mg/L)	5.60	<0.010	<0.010	<0.0010	NS	NS	EF/NS	IS	EF/NS	0.0012	ANR
Dimethyl phthalate (mg/L)	NNS	<0.010	<0.010	<0.0010	NS	NS	EF/NS	IS	EF/NS	<0.0010	ANR
Di-n-butyl phthalate (mg/L)	NNS	<0.010	<0.010	<0.0010	NS	NS	EF/NS	IS	EF/NS	<0.0010	ANR
Di-n-octyl phthalate (mg/L)	2.80	<0.010	<0.010	<0.0010	NS	NS	EF/NS	IS	EF/NS	<0.0010	ANR
1,2-Diphenylhydrazine (Azobenzene) (mg/L)	NNS	NS	NS	NS	NS	NS	EF/NS	IS	EF/NS	<0.0010	ANR
Fluoranthene (mg/L)	0.28	<0.0010	<0.010	<0.0010	NS	NS	EF/NS	IS	EF/NS	<0.0010	ANR
Fluorene (mg/L)	0.28	<0.0010	<0.010	<0.0010	NS	NS	EF/NS	IS	EF/NS	<0.0010	ANR
Indeno(1,2,3-cd)pyrene (mg/L)	NNS	NS	NS	NS	NS	NS	EF/NS	IS	EF/NS	<0.0010	ANR
Naphthalene (mg/L)	0.14	<0.0010	<0.010	<0.0010	NS	NS	EF/NS	IS	EF/NS	<0.0010	ANR
Phenanthrene (mg/L)	NNS	<0.0010	<0.010	<0.0010	NS	NS	EF/NS	IS	EF/NS	<0.0010	ANR
Pyrene (mg/L)	0.21	<0.0010	<0.010	<0.0010	NS	NS	EF/NS	IS	EF/NS	<0.0010	ANR

RECEIVING WATER: Skunk Creek (a reach of Ca	ve Creek)				Su	mmer: Ju	ne 1- Octobe	er 31			
WATERSHED: Middle Gila					Wi	nter: Nov	ember 1- Ma	y 31			
DESIGNATED USES: A&We, PBC		Permi	t Year 1	Permit	Year 2	Permit Year 3		Permit Year 4		Permit	Year 5
AUTOSAMPLER STARTUP DATE: July 13, 2011 (previous sampling conducted with passive sam	plers)	Winter 2008-09	Summer 2009	Winter 2009-10	Summer 2010	Winter 2010-11	Summer 2011	Winter 2011-12	Summer 2012	Winter 2012-13	Summer 2013
SAM	PLING DATE	12/17/08	7/21/09	2/28/10	NS	NS	NS	11/5/11	EF/NS	12/14/12	Pending
Pesticides											
Aldrin (mg/L)	0.0020	<0.00050	<0.00051	<0.000050	NS	NS	EF/NS	IS	EF/NS	<0.000050	ANR
Alpha BHC (mg/L)	NNS	<0.00050	<0.000050	<0.000050	NS	NS	EF/NS	IS	EF/NS	<0.000050	ANR
Beta BHC (mg/L)	NNS	<0.00050	<0.000050	<0.000050	NS	NS	EF/NS	IS	EF/NS	<0.000050	ANR
Delta BHC (mg/L)	NNS	<0.00050	<0.000050	<0.000050	NS	NS	EF/NS	IS	EF/NS	<0.000050	ANR
Gamma BHC (mg/L)	NNS	<0.00050	<0.000050	<0.000050	NS	NS	EF/NS	IS	EF/NS	<0.000050	ANR
Chlordane (mg/L)	0.0020	<0.0050	<0.00050	<0.00050	NS	NS	EF/NS	IS	EF/NS	<0.00005	ANR
4,4-DDD (mg/L)	NNS	<0.00050	<0.000050	<0.000050	NS	NS	EF/NS	IS	EF/NS	<0.000050	ANR
4,4-DDE (mg/L)	NNS	<0.00050	<0.000050	<0.000050	NS	NS	EF/NS	IS	EF/NS	<0.000050	ANR
4,4-DDT (mg/L)	NNS	<0.00050	<0.000050	<0.000050	NS	NS	EF/NS	IS	EF/NS	<0.000050	ANR
Dieldrin (mg/L)	0.0020	<0.00050	<0.000050	<0.000050	NS	NS	EF/NS	IS	EF/NS	<0.000050	ANR
Alpha-endenosulfan (mg/L)	NNS	NS	NS	NS	NS	NS	EF/NS	IS	EF/NS	<0.000050	ANR
Beta-endenosulfan (mg/L)	NNS	NS	NS	NS	NS	NS	EF/NS	IS	EF/NS	<0.000050	ANR
Endosulfan sulfate (mg/L)	NNS	<0.00050	<0.000050	<0.000050	NS	NS	EF/NS	IS	EF/NS	<0.000050	ANR
Endrin (mg/L)	0.0020	<0.00050	<0.000050	<0.000050	NS	NS	EF/NS	IS	EF/NS	<0.000050	ANR
Endrin aldehyde (mg/L)	NNS	<0.00050	0.000088	<0.000050	NS	NS	EF/NS	IS	EF/NS	<0.000050	ANR
Heptachlor (mg/L)	0.00040	<0.00050	<0.000050	<0.000050	NS	NS	EF/NS	IS	EF/NS	<0.000050	ANR
Heptachlor epoxide (mg/L)	0.00020	<0.00050	<0.000050	<0.000050	NS	NS	EF/NS	IS	EF/NS	<0.000050	ANR
Toxaphene (mg/L)	NNS	<0.010	<0.00050	<0.00050	NS	NS	EF/NS	IS	EF/NS	<0.00005	ANR

NNS - No Numerical Standard

EF - Equipment Failure

IS - Insufficient Sample

NS - Not Sampled

ANR - Analyses Not Required

OUTFALL ID: Tucson MS4 Grant Road

MONITORING SEASONS

RECEIVING WATER: Santa Cruz					5	Summer: Jun	e 1 - Octobe	r 31			
WATERSHED: Sanata Cruz					١	Winter: Nove	mber 1 - May	/ 31			
DESIGNATED USES: A&We, PBC		Perm	it Year 1	Permit	Year 2	Permit	Year 3	Perm	it Year 4	Permi	Year 5
AUTOSAMPLER STARTUP DATE: March 21, 201 sampling conducted with passive samplers)	1 (previous	Winter 2008- 09	Summer 2009	Winter 2009- 10	Summer 2010	Winter 2010- 11	Summer 2011	Winter 2011- 12	Summer 2012	Winter 2012-13	Summer 2013
SA	MPLING DATE	12/1/08	6/30/09	4/23/10	NS	NS	NS	11/7/11	8/22/12	12/13/12	Pending
MONITORING PARAMETERS	wqs										
Flow (gpm = gallons per minute)	NNS	-	-	-	NS	NS	NS	276	523	318	
рН	6.5-8.5	-	-	7.3	NS	NS	NS	7.1	8.57	7.2	
Temperature (F°)	NNS	62.3	88.1	64.4	NS	NS	NS	65.1	84.3	67.8	
Hardness	NNS	250		470	NS	NS	NS	NS	35	28	
Specific conductance (umhos/cm)	500	NS	NS	NS	NS	NS	NS	235	92	89	
Total Dissolved Solids (TDS) (mg/L)	500	680*	680*	910	NS	NS	NS	IS	72	66	
Total Suspended Solids (TSS) (mg/L)	NNS	110	160	130	NS	NS	NS	IS	65	69	
Turbidity (NTU)	NNS	94	-	58	NS	NS	NS	IS	82	46	
Biochemical Oxygen Demand (BOD) (mg/L)	NNS	65	44	90	NS	NS	NS	IS	<5.0	5.8	
Chemical Oxygen Demand (COD) (mg/L)	NNS	560	640	490	NS	NS	NS	IS	62	95	
Surfactants (mg/L)	NNS	NS	NS	NS	NS	NS	NS	IS	0.06	0.122	
Inorganics											
Cyanide, total (mg/L)	0.2	0.0059	<0.0050	<0.10	NS	NS	NS	<0.0080	<0.050	<0.050	
Sulfates (mg/L)	250	110	68	-	NS	NS	NS	IS	4.2	7.5	
Nutrients											
Nitrate (mg/L)	1	<0.10	0.21	9.9	NS	NS	NS	IS	1	2.5	
Nitrite (mg/L)	10	<0.10	<0.10	1.9	NS	NS	NS	IS	<0.20	0.34	
Total Ammonia (mg/L)	NNS	6.2	6.7	<0.50	NS	NS	NS	IS	<0.50	<0.50	
Total Kjeldahl Nitrogen (TKN) (mg/L)	NNS	12	14	7.8	NS	NS	NS	IS	1	1.6	
Total Phosphorous (mg/L)	NNS	0.42	0.36	0.58	NS	NS	NS	IS	0.24	0.18	
Phosphate, Ortho (mg/L)	NNS	0.62	<0.12	310	NS	NS	NS	IS	<0.20	<0.20	
Sodium (mg/L)	NNS	-	18	18	NS	NS	NS	IS	3.5	4.9	
Calcium (mg/L)	NNS	-	100	150	NS	NS	NS	IS	14	11	
Chloride (mg/L)	10	26	19	14	NS	NS	NS	IS	<2.0	2.8	
Microbiological											
Coliform, fecal (CFU/100 ml)	NNS	-	-	2400*	NS	NS	NS	IS	<1	2200	
E.Coli (MPN/100 ml)	100.00	-	-	390	NS	NS	NS	<2	300	300	

RECEIVING WATER: Santa Cruz					s	Summer: Jun	e 1 - Octobe	r 31			
WATERSHED: Sanata Cruz					V	Winter: Nove	mber 1 - May	/ 31			
DESIGNATED USES: A&We, PBC		Perm	it Year 1	Permit	Year 2	Permit	Year 3	Perm	it Year 4	Permit	Year 5
AUTOSAMPLER STARTUP DATE: March 21, 2011 sampling conducted with passive samplers)	(previous	Winter 2008- 09	Summer 2009	Winter 2009- 10	Summer 2010	Winter 2010- 11	Summer 2011	Winter 2011- 12	Summer 2012	Winter 2012-13	Summer 2013
SAM	IPLING DATE	12/1/08	6/30/09	4/23/10	NS	NS	NS	11/7/11	8/22/12	12/13/12	Pending
Total Metals											
Antimony (mg/L)	0.00600		0.0046	<0.20	NS	NS	NS	IS	<0.0030	0.0045	
Arsenic (mg/L)	0.05000	<0.020	0.003	<0.040	NS	NS	NS	IS	<0.10	<0.10	
Barium (mg/L)	2.0T	0.2	0.2	0.2	NS	NS	NS	IS	0.053	0.070	
Beryllium (mg/L)	0.00400	<0.0050	<0.0020	<0.0020	NS	NS	NS	IS	<0.0010	<0.0010	
Cadmium (mg/L)	0.00500	-	<0.0050	<0.0020	NS	NS	NS	IS	<0.0010	<0.0010	
Chromium (mg/L)	0.1T	<0.010	<0.010	< 0.030	NS	NS	NS	IS	<0.010	<0.010	
Copper (mg/L)	1.3T		0.033	0.13	NS	NS	NS	IS	0.05	0.080	
Lead (mg/L)	0.015T	0.015	<0.0050	<0.040	NS	NS	NS	IS	<0.015	<0.015	
Mercury (mg/L)	0.00200	<0.00020	<0.00020	<0.0010	NS	NS	NS	IS	<0.00020	<0.00020	
Nickel (mg/L)	0.14000		<0.020	< 0.050	NS	NS	NS	IS	<0.010	<0.010	
Selenium (mg/L)	0.02000	<0.020	0.02	<0.040	NS	NS	NS	IS	<0.0020	<0.0030	
Silver (mg/L)	NNS	<0.010	<0.010	<0.010	NS	NS	NS	IS	<0.010	<0.010	
Zinc (mg/L)	2.1T	-	0.18	0.41	NS	NS	NS	IS	0.09	0.13	
Organic Toxic Pollutnats											
Total Petroleum Hydrobarbons (TPH) (mg/L)	NNS	6.2	·	-	NS	NS	NS	1.8	<5.0	<5.0	
Oil & Grease (Hexane Extr) (mg/L)	NNS	<5.6	<6.7	9.2	NS	NS	NS	9.9	11	<5.0	
Chlorine, residual (mg/L)	0.7	<0.10		<0.10	NS	NS	NS	IS	0.13	<0.050	
BTEX Compounds											
Benzene (ug/L)	0.005	<0.0010	<0.00050	<0.50	NS	NS	NS	<0.50	<2.0	<2.0	ANR
Ethylbenzene (ug/L)	0.70000	<0.0010	<0.00050	<0.50	NS	NS	NS	<1.0	<2.0	<2.0	ANR
Toluene (ug/L)	1.00000	<0.0050	<0.0050	<0.50	NS	NS	NS	<1.0	<2.0	<2.0	ANR
Total Xylene (ug/L)	10.00000	<0.0030	<0.0015	<0.50	NS	NS	NS	<1.5	<2.0	<2.0	ANR

RECEIVING WATER: Santa Cruz WATERSHED: Sanata Cruz						Summer: Jun					
						Vinter: Nove	mber 1 - May	/ 31			
DESIGNATED USES: A&We, PBC		Perm	it Year 1	Permit	Year 2	Permit	Year 3	Perm	it Year 4	Permit	t Year 5
AUTOSAMPLER STARTUP DATE: March 21, 201 sampling conducted with passive samplers)	1 (previous	Winter 2008- 09	Summer 2009	Winter 2009- 10	Summer 2010	Winter 2010- 11	Summer 2011	Winter 2011- 12	Summer 2012	Winter 2012-13	Summer 2013
SAI	MPLING DATE	12/1/08	6/30/09	4/23/10	NS	NS	NS	11/7/11	8/22/12	12/13/12	Pending
Acid Compounds											
2-Chlorophenol (ug/L)	0.03500	-	<0.010	<96	NS	NS	NS	IS	<10	ANR	ANR
2,4-Dichlorophenol (mg/L)	0.02100	-	<0.010	<96	NS	NS	NS	IS	<10	ANR	ANR
2,4-Dimethylphenol (ug/L)	0.14000	-	<0.010	<96	NS	NS	NS	IS	<10	ANR	ANR
2,4-Dinitrophenol (ug/L)	0.01400	-	<0.010	<480	NS	NS	NS	IS	<50	ANR	ANR
2-Nitrophenol (ug/L)	NNS	-	<0.010	<96	NS	NS	NS	IS	<15	ANR	ANR
4-Nitrophenol (ug/L)	NNS	-	<0.010	<480	NS	NS	NS	IS	<25	ANR	ANR
Pentachlorophenol (ug/L)	0.00100	-	<0.010	<290	NS	NS	NS	IS	<50	ANR	ANR
Phenol (ug/L)	4.20000	-	<0.010	<96	NS	NS	NS	IS	<10	ANR	ANR
2,4,6-Trichlorophenol (ug/L)	0.00320	-	<0.010	<96	NS	NS	NS	IS	<10	ANR	ANR
Bases/Neutrals											
Acenaphthene(ug/L)	0.42000	-	<0.010	<48	NS	NS	NS	IS	<10	ANR	ANR
Acenaphthylene (ug/L)	NNS	-	<0.010	<48	NS	NS	NS	IS	NS	ANR	ANR
Anthracene (ug/L)	2.10000	-	<0.010	<48	NS	NS	NS	IS	<10	ANR	ANR
Benzo(a)anthracene (ug/L)	0.00190	-	<0.010	<48	NS	NS	NS	IS	<10	ANR	ANR
Benzo(a)pyrene (ug/L)	0.00020	-	<0.010	<48	NS	NS	NS	IS	<10	ANR	ANR
Benzo(b)fluoranthene (ug/L)	NNS	-	<0.010	<96	NS	NS	NS	IS	<10	ANR	ANR
Benzo(g,h,i)perylene (ug/L)	NNS	-	<0.010	<48	NS	NS	NS	IS	<10	ANR	ANR
Benzo(k)fluoranthene (ug/L)	0.04800	-	<0.010	<96	NS	NS	NS	IS	<10	ANR	ANR
Chrysene (ug/L)	0.00479	-	<0.010	<48	NS	NS	NS	IS	<10	ANR	ANR
Dibenz(a,h)anthracene (ug/L)	0.00190	-	<0.010	<48	NS	NS	NS	IS	<10	ANR	ANR
Diethyl phthalate (ug/L)	5.60000	-	<0.010	<96	NS	NS	NS	IS	<10	ANR	ANR
Dimethyl phthalate (ug/L)	NNS	-	<0.010	<96	NS	NS	NS	IS	<20	ANR	ANR
Di-n-butyl phthalate (ug/L)	NNS	-	<0.010	<96	NS	NS	NS	IS	<10	ANR	ANR
Di-n-octyl phthalate (ug/L)	2.80000	-	<0.010	<96	NS	NS	NS	IS	<10	ANR	ANR
Fluoranthene (ug/L)	0.28000	-	<0.010	<48	NS	NS	NS	IS	<10	ANR	ANR
Fluorene (ug/L)	0.28000	-	<0.010	<48	NS	NS	NS	IS	<10	ANR	ANR
Indeno(1,2,3-cd)pyrene (ug/L)	0.00048	-	<0.010	<48	NS	NS	NS	IS	<10	ANR	ANR
Naphthalene (ug/L)	0.14000	-	<0.010	<48	NS	NS	NS	IS	<10	ANR	ANR
Phenanthrene (ug/L)	NNS	-	<0.010	<48	NS	NS	NS	IS	<10	ANR	ANR
Pyrene (ug/L)	0.21000	-	<0.010	<48	NS	NS	NS	IS	<10	ANR	ANR

RECEIVING WATER: Santa Cruz Summer: June 1 - October 31 WATERSHED: Sanata Cruz Winter: November 1 - May 31 DESIGNATED USES: A&We, PBC Permit Year 5 Permit Year 1 Permit Year 2 Permit Year 3 Permit Year 4 AUTOSAMPLER STARTUP DATE: March 21, 2011 (previous Winter 2008 Winter Winter 2009 Summer Winter 2010-Summer Winter 2011 Summer sampling conducted with passive samplers) 2013 Summer 2012 2012-13 Summer 2009 10 2010 11 2011 12 SAMPLING DATE 12/1/08 12/13/12 6/30/09 4/23/10 NS NS NS 11/7/11 8/22/12 Pending **Pesticides** 0.00200 < 0.000050 Aldrin (ug/L) <96 NS NS NS IS < 0.50 ANR ANR Alpha BHC (ug/L) NNS <0.000050 <96 NS NS NS IS < 0.50 ANR ANR Beta BHC (ug/L) NNS < 0.000050 <96 NS NS NS IS < 0.50 ANR ANR Delta BHC (ug/L) NNS < 0.000050 <96 NS NS NS IS < 0.50 ANR ANR NNS < 0.000050 Gamma BHC (ug/L) <96 NS NS NS IS < 0.50 ANR ANR Chlordane (ug/L) 0.00200 < 0.00050 <96 NS NS NS IS <5.0 ANR ANR 4,4-DDD (ug/L) NNS < 0.000050 <96 NS NS NS IS < 0.50 ANR ANR 4,4-DDE (ug/L) IS NNS < 0.000050 <96 NS NS NS <0.50 ANR ANR NNS < 0.000050 4,4-DDT (ug/L) <96 NS NS NS IS < 0.50 ANR ANR Dieldrin (ug/L) 0.00200 < 0.000050 <96 NS NS NS IS < 0.50 ANR ANR Endosulfan I (ug/L) NNS < 0.000050 <96 NS NS NS IS < 0.50 ANR ANR NS IS <0.50 Endosulfan II (ug/L) NNS < 0.000050 <96 NS NS ANR ANR -Endosulfan sulfate (ug/L) NNS < 0.000050 NS IS <96 NS NS < 0.50 ANR ANR Endrin (ug/L) 0.00200 < 0.000050 <96 NS NS NS IS < 0.50 ANR ANR Endrin aldehyde (ug/L) NNS <0.000050 <96 NS NS NS IS <0.50 ANR ANR Heptachlor (ug/L) 0.00040 < 0.000050 <96 NS NS NS IS <0.50 ANR ANR Heptachlor epoxide (ug/L) 0.00020 < 0.000050 <96 NS NS NS IS < 0.50 ANR ANR Toxaphene (ug/L) NNS < 0.00050 < 0.00096 NS NS NS IS <10 ANR ANR

NNS - No Numerical Standard

EF - Equipment Failure

IS - Insufficient Sample

NS - Not Sampled

ANR - Analyses Not Required

OUTFALL ID: SR179 Bridge Over Oak Creek

RECEIVING WATER: Oak Creek

MONITORING SEASONS

Summer: June 1- October 31

WATERSHED: Verde River					w	inter: Nove	mber 1- Ma	y 31			
DESIGNATED USES: Outstanding Arizona Water	(OAW)	Permi	it Year 1	Permit	Year 2	Permi	t Year 3	Permit	Year 4		Year 5
AUTOSAMPLER STARTUP DATE: January 17, 20	012	Winter 2008-09	Summer 2009	Winter 2009-10	Summer 2010	Winter 2010-11	Summer 2011	Winter 2011- 12	Summer 2012	Winter 2012-13	Summer 2013
SAN	IPLING DATE							EF/NS	EF/NS	12/14/12	Pending
MONITORING PARAMETERS	WQS										
Flow (gpm = gallons per minute)	NNS	1						EF/NS	EF/NS	133	
рН	5.0-9.0	1						EF/NS	EF/NS	6.23	
Temperature (F°)	NNS	1	-					EF/NS	EF/NS	58.7	
Hardness	NNS	1						EF/NS	EF/NS	113	
Specific conductance (mg/L)	NNS	1	-					EF/NS	EF/NS	81	
Total Dissolved Solids (TDS) (mg/L)	500.00	1	-					EF/NS	EF/NS	78	
Total Suspended Solids (TSS) (mg/L)	NNS	1						EF/NS	EF/NS	120	
Turbidity (NTU)	NNS	1	-					EF/NS	EF/NS	190	
Biochemical Oxygen Demand (BOD) (mg/L)	NNS							EF/NS	EF/NS	7.6	
Chemical Oxygen Demand (COD) (mg/L)	NNS	-						EF/NS	EF/NS	47	
Surfactants (mg/L)	NNS							EF/NS	EF/NS	<0.05	
Inorganics											
Cyanide (mg/L)	0.20	1	-					EF/NS	EF/NS	0.05	
Sulfates (mg/L)	250.00	1	-					EF/NS	EF/NS	4.2	
Nutrients											
Nitrate (mg/L)	10.00	1	-					EF/NS	EF/NS	0.19	
Nitrite (mg/L)	1.00	1	-					EF/NS	EF/NS	0.27	
Total Ammonia (mg/L)	NNS							EF/NS	EF/NS	<0.5	
Total Kjeldahl Nitrogen (TKN) (mg/L)	NNS	-						EF/NS	EF/NS	<1	
Total Phosphorous (mg/L)	NNS							EF/NS	EF/NS	0.17	
Phosphate, Ortho (mg/L)	NNS							EF/NS	EF/NS	<0.2	
Sodium (mg/L)	NNS							EF/NS	EF/NS	2.8	
Calcium (mg/L)	NNS							EF/NS	EF/NS	11	
Chloride (mg/L)	NNS	1						EF/NS	EF/NS	2.6	
Microbiological											
Coliform, fecal (col/100 ml)	NNS							EF/NS	EF/NS	20000	
E.Coli (cfu/100 ml)	100.00						-	EF/NS	EF/NS	9000	

RECEIVING WATER: Oak Creek Summer: June 1- October 31 WATERSHED: Verde River Winter: November 1- May 31 **DESIGNATED USES: Outstanding Arizona Water (OAW)** Permit Year 1 Permit Year 2 Permit Year 3 Permit Year 4 Permit Year 5 Winter Summer Winter Summer Winter Summer Winter 2011- Summer Winter Summer **AUTOSAMPLER STARTUP DATE: January 17, 2012** 2008-09 2009 2009-10 2010 2010-11 2011 12 2012 2012-13 2013 SAMPLING DATE EF/NS EF/NS 12/14/12 Pending **Total Metals** EF/NS EF/NS <0.0030 Antimony (mg/L) 0.006 EF/NS EF/NS Arsenic (mg/L) 0.050 ------------< 0.10 2.000 --EF/NS EF/NS <0.0010 Barium (mg/L) EF/NS EF/NS 0.004 <0.0010 Beryllium (mg/L) Cadmium (mg/L) EF/NS EF/NS 0.005 ------------<0.0010 --EF/NS EF/NS Chromium (mg/L) 0.100 < 0.010 EF/NS EF/NS Copper (mg/L) 1.300 --0.034 0.015 ----EF/NS EF/NS < 0.015 Lead (mg/L) EF/NS EF/NS < 0.0002 Mercury (mg/L) 0.002 ----EF/NS EF/NS Nickel (mg/L) 0.140 < 0.010 EF/NS __ EF/NS Selenium (mg/L) 0.020 <0.0030 EF/NS EF/NS Silver (mg/L) NNS --------< 0.010 EF/NS EF/NS 0.078 Zinc (mg/L) 2.10 **Organic Toxic Pollutants** Total Petroleum Hydrocarbons (TPH) (mg/L) NNS EF/NS EF/NS <10 EF/NS EF/NS Oil & Grease (Hexane Extr) (mg/L) NNS --------5.7 EF/NS EF/NS Chlorine, residual (mg/L) 0.70000 < 0.1 VOCs, Semi-VOCs and Pesticides EF/NS EF/NS 0.0050 Benzene (mg/L) --------<2 ANR EF/NS EF/NS Ethylbenzene (mg/L) 0.0050 <2 ANR EF/NS EF/NS Toluene (mg/L) 1.00 ------------<2 ANR EF/NS EF/NS Total Xylene (mg/L) 10.00 <2 ANR

RECEIVING WATER: Oak Creek Summer: June 1- October 31 WATERSHED: Verde River Winter: November 1- May 31 **DESIGNATED USES: Outstanding Arizona Water (OAW)** Permit Year 1 Permit Year 2 Permit Year 3 Permit Year 4 Permit Year 5 Winter Summer Winter Summer Winter Summer Winter 2011-Summer Winter Summer **AUTOSAMPLER STARTUP DATE: January 17, 2012** 2008-09 2009 2009-10 2010 2010-11 2011 12 2012 2012-13 2013 SAMPLING DATE EF/NS EF/NS 12/14/12 Pending **Acid Compounds** EF/NS 2-Chlorophenol (mg/L) 0.035 EF/NS <10 ANR --EF/NS EF/NS 0.021 --<10 2,4-Dichlorophenol (mg/L) ANR EF/NS EF/NS 2,4-Dimethylphenol (mg/L) 0.140 <10 ANR 4,6-Dinitrocreosol (mg/L) NNS ------EF/NS EF/NS <10 ANR EF/NS EF/NS 2,4-Dinitrophenol (mg/L) 0.014 <30 ANR ------------EF/NS EF/NS NNS ANR 2-Nitrophenol (mg/L) <10 EF/NS EF/NS 4-Nitrophenol (mg/L) NNS ----<10 ANR EF/NS EF/NS P-Chloro-m-cresol (mg/L) NNS <10 ANR EF/NS EF/NS Pentachlorophenol (mg/L) 0.001 ----<50 ANR 4.20 EF/NS EF/NS Phenol (mg/L) <10 ANR EF/NS EF/NS 2,4,6-Trichlorophenol (mg/L) 0.00320 <10 ANR Bases/Neutrals EF/NS EF/NS Acenaphthene (mg/L) 0.42 --<4 ANR Acenaphthylene (mg/L) NNS --EF/NS EF/NS <4 ANR EF/NS EF/NS Anthracene (mg/L) 2.10 ----<4 ANR EF/NS EF/NS Benzo(a)anthracene (mg/L) 0.00190 --<4 ANR 0.00020 --EF/NS EF/NS <4 ANR Benzo(a)pyrene (mg/L) --Benzo(b)fluoranthene (mg/L) NNS ----EF/NS EF/NS <4 ANR ----EF/NS EF/NS Benzo(g,h,i)perylene (mg/L) NNS <4 ANR EF/NS EF/NS 0.0480 ------------<4 ANR Benzo(k)fluoranthene (mg/L) EF/NS EF/NS 0.00479 <4 ANR Chrysene (mg/L) EF/NS Dibenzo(a,h)anthracene (mg/L) 0.00190 --------__ EF/NS <4 ANR Diethyl phthalate (mg/L) EF/NS EF/NS 5.60 ----<4 ANR Dimethyl phthalate (mg/L) NNS --EF/NS EF/NS <4 ANR Di-n-butyl phthalate (mg/L) NNS ------------EF/NS EF/NS <4 ANR EF/NS EF/NS 2.80 Di-n-octyl phthalate (mg/L) --<4 ANR __ EF/NS EF/NS 1,2-Diphenylhydrazine (Azobenzene) (mg/L) NNS <4 ANR EF/NS EF/NS Fluoranthene (mg/L) 0.28 ------------<4 ANR EF/NS Fluorene (mg/L) 0.28 EF/NS <4 ANR Indeno(1,2,3-cd)pyrene (mg/L) NNS --__ EF/NS EF/NS <4 ANR Naphthalene (mg/L) 0.14 --EF/NS EF/NS <4 --ANR EF/NS EF/NS Phenanthrene (mg/L) NNS <4 ANR EF/NS 0.21 ------EF/NS ANR Pyrene (mg/L) <10

RECEIVING WATER: Oak Creek Summer: June 1- October 31 WATERSHED: Verde River Winter: November 1- May 31 **DESIGNATED USES: Outstanding Arizona Water (OAW)** Permit Year 1 Permit Year 2 Permit Year 3 Permit Year 4 Permit Year 5 Winter Summer Winter Summer Winter Summer Winter 2011- Summer Winter Summer **AUTOSAMPLER STARTUP DATE: January 17, 2012** 2008-09 2009 2009-10 2010 2010-11 2011 12 2012 2012-13 2013 SAMPLING DATE EF/NS EF/NS 12/14/12 Pending Pesticides EF/NS EF/NS Aldrin (mg/L) 0.0020 < 0.051 ANR ----EF/NS EF/NS Alpha BHC (mg/L) NNS < 0.051 ANR Beta BHC (mg/L) NNS EF/NS EF/NS < 0.051 ANR Delta BHC (mg/L) NNS ------EF/NS EF/NS < 0.051 ANR EF/NS EF/NS Gamma BHC (mg/L) NNS < 0.051 ANR ------------EF/NS EF/NS Chlordane (mg/L) 0.0020 < 0.051 ANR EF/NS EF/NS 4,4-DDD (mg/L) NNS ----< 0.051 ANR EF/NS EF/NS 4,4-DDE (mg/L) NNS < 0.051 ANR NNS --EF/NS EF/NS 4,4-DDT (mg/L) --< 0.051 ANR 0.0020 EF/NS EF/NS < 0.051 ANR Dieldrin (mg/L) EF/NS EF/NS Alpha-endenosulfan (mg/L) NNS < 0.051 ANR EF/NS EF/NS Beta-endenosulfan (mg/L) NNS ------< 0.051 ANR NNS EF/NS EF/NS Endosulfan sulfate (mg/L) < 0.051 ANR ----EF/NS EF/NS Endrin (mg/L) 0.0020 ----< 0.051 ANR EF/NS EF/NS Endrin aldehyde (mg/L) NNS --< 0.051 __ ANR 0.00040 EF/NS EF/NS Heptachlor (mg/L) < 0.051 ANR EF/NS Heptachlor epoxide (mg/L) 0.00020 --EF/NS < 0.051 ANR NNS EF/NS EF/NS Toxaphene (mg/L) <2.5 ANR

NNS - No Numerical Standard

EF - Equipment Failure

IS - Insufficient Sample

NS - Not Sampled

ANR - Analyses Not Required

Note - High dilution due to matrix interference caused increased reporting limits for Base/Neutrals

OUTFALL ID: B40-196.14

Calcium (mg/L)

Chloride (mg/L)

RECEIVING WATER: Rio De Flag

MONITORING SEASONS

Summer: June 1- October 31

EF/NS

EF/NS

EF/NS

EF/NS

18

14

31

36

WATERSHED: Little Colorado					Wi	inter: Nove	mber 1- May	<i>y</i> 31			
DESIGNATED USES: Aquatic & Wildlife EDW, P	вс		it Year 1	Permit			t Year 3	Permit		Permit	
AUTOSAMPLER STARTUP DATE: August 11, 20	111	Winter 2008-09	Summer 2009	Winter 2009-10	Summer 2010	Winter 2010-11	Summer 2011	Winter 2011- 12	Summer 2012	Winter 2012- 13	Summer 2013
S	AMPLING DATE						EF/NS	EF/NS	10/12/12	1/25/13	Pending
MONITORING PARAMETERS	wqs										
Flow (gpm = gallons per minute)	NNS	-				-	EF/NS	EF/NS	187	75	
рН	5.0-9.0						EF/NS	EF/NS	6.88	7.23	
Temperature (F°)	NNS						EF/NS	EF/NS	54.4	53	
Hardness	NNS						EF/NS	EF/NS	67	120	
Specific conductance (umhos/cm)	NNS						EF/NS	EF/NS	160	220	
Total Dissolved Solids (TDS) (mg/L)	500.00						EF/NS	EF/NS	100	120	
Total Suspended Solids (TSS) (mg/L)	NNS						EF/NS	EF/NS	95	260	
Turbidity (NTU)	NNS						EF/NS	EF/NS	33	180	
Biochemical Oxygen Demand (BOD) (mg/L)	NNS						EF/NS	EF/NS	<5.00	15	
Chemical Oxygen Demand (COD) (mg/L)	NNS						EF/NS	EF/NS	44	200	
Surfactants (mg/L)	NNS						EF/NS	EF/NS	0.13	<0.10	
Inorganics											
Cyanide (mg/L)	0.20						EF/NS	EF/NS	<0.0050	0.016	
Sulfates (mg/L)	250.00						EF/NS	EF/NS	<5.0	<5.0	
Nutrients											
Nitrate (mg/L)	10.00	-				-	EF/NS	EF/NS	0.63	0.16	
Nitrite (mg/L)	1.00	-				-	EF/NS	EF/NS	0.19	0.18	
Total Ammonia (mg/L)	NNS						EF/NS	EF/NS	0.12	0.34	
Total Kjeldahl Nitrogen (TKN) (mg/L)	NNS						EF/NS	EF/NS	1.1	3.2	
Total Phosphorous (mg/L)	NNS						EF/NS	EF/NS	0.34	2	
Phosphate, Ortho (mg/L)	NNS						EF/NS	EF/NS	0.18	0.36	•
Sodium (mg/L)	NNS						EF/NS	EF/NS	13	30	

NNS

NNS

RECEIVING WATER: Rio De Flag		1			Su	mmer: Jun	e 1- Octobe	r 31			
WATERSHED: Little Colorado					Wi	inter: Nove	mber 1- May	31			
DESIGNATED USES: Aquatic & Wildlife EDW, PBG	;	Permi	it Year 1	Permit	Year 2	Permi	t Year 3	Permit	Year 4	Permit	Year 5
AUTOSAMPLER STARTUP DATE: August 11, 2011		Winter 2008-09	Summer 2009	Winter 2009-10	Summer 2010	Winter 2010-11	Summer 2011	Winter 2011- 12		Winter 2012- 13	Summer 2013
SAN	IPLING DATE						EF/NS	EF/NS	10/12/12	1/25/13	Pending
Microbiological											_
Coliform, fecal (MPN/100 ml)	NNS						EF/NS	EF/NS	<9700	120	
E.Coli (MPN/100 ml)	100.00				-		EF/NS	EF/NS	<9700	140	
Total Metals											
Antimony (mg/L)	0.006				-		EF/NS	EF/NS	<0.020	<0.020	
Arsenic (mg/L)	0.050						EF/NS	EF/NS	<0.020	<0.020	
Barium (mg/L)	2.000				-		EF/NS	EF/NS	0.070	0.260	
Beryllium (mg/L)	0.004				-		EF/NS	EF/NS	<0.0020	<0.0040	
Cadmium (mg/L)	0.005						EF/NS	EF/NS	<0.0050	<0.0050	
Chromium (mg/L)	0.100						EF/NS	EF/NS	<0.010	0.015	
Copper (mg/L)	1.300				-		EF/NS	EF/NS	<0.020	0.044	
Lead (mg/L)	0.015						EF/NS	EF/NS	<0.0050	0.037	
Mercury (mg/L)	0.002				-		EF/NS	EF/NS	<0.0020	<0.00020	
Nickel (mg/L)	0.140						EF/NS	EF/NS	<0.020	<0.020	
Selenium (mg/L)	0.020				-		EF/NS	EF/NS	<0.020	<0.020	
Silver (mg/L)	NNS				-		EF/NS	EF/NS	<0.010	<0.010	
Zinc (mg/L)	2.10						EF/NS	EF/NS	0.085	0.3	
Organic Toxic Pollutants											
Total Petroleum Hydrocarbons (TPH) (mg/L)	NNS						EF/NS	EF/NS	0.86	0.14	
Oil & Grease (Hexane Extr) (mg/L)	NNS						EF/NS	EF/NS	<5.0	7.6	
Chlorine, residual (mg/L)	0.70000						EF/NS	EF/NS	<0.10	0.14	
VOCs, Semi-VOCs and Pesticides											
Benzene (mg/L)	0.0050						EF/NS	EF/NS	IS	<0.0005	ANR
Ethylbenzene (mg/L)	0.0050						EF/NS	EF/NS	IS	<0.0005	ANR
Toluene (mg/L)	1.00						EF/NS	EF/NS	IS	<0.005	ANR
Total Xylene (mg/L)	10.00						EF/NS	EF/NS	IS	<0.0015	ANR

RECEIVING WATER: Rio De Flag					Su	mmer: Jun	e 1- Octobe	r 31			
WATERSHED: Little Colorado					W	inter: Nove	mber 1- May	31			
DESIGNATED USES: Aquatic & Wildlife EDW, PBC	;	Perm	it Year 1	Permit	Year 2	Permi	t Year 3	Permit	Year 4	Permit	Year 5
AUTOSAMPLER STARTUP DATE: August 11, 2011		Winter 2008-09	Summer 2009	Winter 2009-10	Summer 2010	Winter 2010-11	Summer 2011	Winter 2011- 12	Summer 2012	Winter 2012-	Summer 2013
SAN	IPLING DATE						EF/NS	EF/NS	10/12/12	1/25/13	Pending
Acid Compounds		J			1		217.10	217110	10/12/12	1/20/10	l onding
2-Chlorophenol (mg/L)	0.035						EF/NS	EF/NS	IS	<0.010	ANR
2,4-Dichlorophenol (mg/L)	0.021						EF/NS	EF/NS	IS	<0.010	ANR
2,4-Dimethylphenol (mg/L)	0.140						EF/NS	EF/NS	IS	<0.010	ANR
4,6-Dinitrocreosol (mg/L)	NNS						EF/NS	EF/NS	IS	<0.010	ANR
2,4-Dinitrophenol (mg/L)	0.014						EF/NS	EF/NS	IS	<0.010	ANR
2-Nitrophenol (mg/L)	NNS						EF/NS	EF/NS	IS	<0.010	ANR
4-Nitrophenol (mg/L)	NNS						EF/NS	EF/NS	IS	<0.010	ANR
P-Chloro-m-cresol (mg/L)	NNS						EF/NS	EF/NS	IS	<0.010	ANR
Pentachlorophenol (mg/L)	0.001						EF/NS	EF/NS	IS	<0.010	ANR
Phenol (mg/L)	4.20						EF/NS	EF/NS	IS	<0.010	ANR
2,4,6-Trichlorophenol (mg/L)	0.00320						EF/NS	EF/NS	IS	<0.010	ANR
Bases/Neutrals					•						
Acenaphthene (mg/L)	0.42						EF/NS	EF/NS	IS	<0.001	ANR
Acenaphthylene (mg/L)	NNS						EF/NS	EF/NS	IS	<0.001	ANR
Anthracene (mg/L)	2.10						EF/NS	EF/NS	IS	<0.001	ANR
Benzo(a)anthracene (mg/L)	0.00190						EF/NS	EF/NS	IS	<0.001	ANR
Benzo(a)pyrene (mg/L)	0.00020						EF/NS	EF/NS	IS	<0.001	ANR
Benzo(b)fluoranthene (mg/L)	NNS						EF/NS	EF/NS	IS	<0.001	ANR
Benzo(g,h,i)perylene (mg/L)	NNS						EF/NS	EF/NS	IS	<0.001	ANR
Benzo(k)fluoranthene (mg/L)	0.0480						EF/NS	EF/NS	IS	<0.001	ANR
Chrysene (mg/L)	0.00479						EF/NS	EF/NS	IS	<0.001	ANR
Dibenzo(a,h)anthracene (mg/L)	0.00190						EF/NS	EF/NS	IS	<0.001	ANR
Diethyl phthalate (mg/L)	5.60						EF/NS	EF/NS	IS	<0.001	ANR
Dimethyl phthalate (mg/L)	NNS						EF/NS	EF/NS	IS	<0.001	ANR
Di-n-butyl phthalate (mg/L)	NNS						EF/NS	EF/NS	IS	<0.001	ANR
Di-n-octyl phthalate (mg/L)	2.80						EF/NS	EF/NS	IS	<0.001	ANR
1,2-Diphenylhydrazine (Azobenzene) (mg/L)	NNS						EF/NS	EF/NS	IS	<0.001	ANR
Fluoranthene (mg/L)	0.28						EF/NS	EF/NS	IS	<0.001	ANR
Fluorene (mg/L)	0.28						EF/NS	EF/NS	IS	<0.001	ANR
Indeno(1,2,3-cd)pyrene (mg/L)	NNS						EF/NS	EF/NS	IS	<0.001	ANR
Naphthalene (mg/L)	0.14						EF/NS	EF/NS	IS	<0.001	ANR
Phenanthrene (mg/L)	NNS						EF/NS	EF/NS	IS	<0.001	ANR
Pyrene (mg/L)	0.21						EF/NS	EF/NS	IS	<0.001	ANR

RECEIVING WATER: Rio De Flag					Su	mmer: June	e 1- October	· 31			
WATERSHED: Little Colorado					Wi	nter: Nover	nber 1- May	31			
DESIGNATED USES: Aquatic & Wildlife EDW, PBG	;		t Year 1	Permit			Year 3		Year 4	Permit	
AUTOSAMPLER STARTUP DATE: August 11, 2011		Winter 2008-09	Summer 2009	Winter 2009-10	Summer 2010	Winter 2010-11	Summer 2011	Winter 2011- 12	Summer 2012	Winter 2012- 13	Summer 2013
SAN	IPLING DATE						EF/NS	EF/NS	10/12/12	1/25/13	Pending
Pesticides											
Aldrin (mg/L)	0.0020						EF/NS	EF/NS	IS	<0.00005	ANR
Alpha BHC (mg/L)	NNS						EF/NS	EF/NS	IS	<0.00005	ANR
Beta BHC (mg/L)	NNS						EF/NS	EF/NS	IS	<0.00005	ANR
Delta BHC (mg/L)	NNS						EF/NS	EF/NS	IS	<0.00005	ANR
Gamma BHC (mg/L)	NNS	-					EF/NS	EF/NS	IS	<0.00005	ANR
Chlordane (mg/L)	0.0020						EF/NS	EF/NS	IS	<0.0005	ANR
4,4-DDD (mg/L)	NNS						EF/NS	EF/NS	IS	<0.00005	ANR
4,4-DDE (mg/L)	NNS						EF/NS	EF/NS	IS	<0.00005	ANR
4,4-DDT (mg/L)	NNS						EF/NS	EF/NS	IS	<0.00005	ANR
Dieldrin (mg/L)	0.0020						EF/NS	EF/NS	IS	<0.00005	ANR
Alpha-endenosulfan (mg/L)	NNS						EF/NS	EF/NS	IS	<0.00005	ANR
Beta-endenosulfan (mg/L)	NNS						EF/NS	EF/NS	IS	<0.00005	ANR
Endosulfan sulfate (mg/L)	NNS						EF/NS	EF/NS	IS	<0.00005	ANR
Endrin (mg/L)	0.0020	-					EF/NS	EF/NS	IS	<0.00005	ANR
Endrin aldehyde (mg/L)	NNS						EF/NS	EF/NS	IS	<0.00005	ANR
Heptachlor (mg/L)	0.00040						EF/NS	EF/NS	IS	<0.00005	ANR
Heptachlor epoxide (mg/L)	0.00020	-					EF/NS	EF/NS	IS	<0.00005	ANR
Toxaphene (mg/L)	NNS						EF/NS	EF/NS	IS	<0.0005	ANR

NNS - No Numerical Standard EF - Equipment Failure IS - Insufficient Sample NS - Not Sampled

ANR - Analyses Not Required

MS4 Monitoring Data Nogales

OUTFALL ID: 82-0.57 MONITORING SEASONS **RECEIVING WATER: Nogales Wash** Summer: June 1- October 31 **WATERSHED: Santa Cruz** Winter: November 1- May 31 DESIGNATED USES: A&Ww. PBC Permit Year 1 Permit Year 2 Permit Year 3 Permit Year 4 Permit Year 5 Winter Summer Winter Summer Winter Summer Winter 2011-Summer Winter Summer **AUTOSAMPLER STARTUP DATE: October 6, 2011** 2008-09 2009 2009-10 2010 2010-11 2011 2012 2012-13 2013 SAMPLING DATE EF/NS EF/NS 12/14/12 Pending MONITORING PARAMETERS WQS EF/NS EF/NS Flow (gpm = gallons per minute) NNS --118 EF/NS EF/NS 5.0-9.0 7.13 --__ EF/NS EF/NS Temperature (F°) NNS 63.2 EF/NS EF/NS Hardness NNS 27 --EF/NS EF/NS Specific conductance (mg/L) NNS 81 EF/NS EF/NS Total Dissolved Solids (TDS) (mg/L) 500.00 78 Total Suspended Solids (TSS) (mg/L) NNS ------------EF/NS EF/NS 120 NNS --EF/NS EF/NS **Turbidity (NTU)** 190 EF/NS Biochemical Oxygen Demand (BOD) (mg/L) NNS EF/NS 7.6 EF/NS EF/NS Chemical Oxygen Demand (COD) (mg/L) NNS ------------47 EF/NS EF/NS Surfactants (mg/L) NNS <1.0 Inorganics EF/NS EF/NS Cyanide (mg/L) 0.20 < 0.050 EF/NS EF/NS Sulfates (mg/L) 250.00 4.2 Nutrients EF/NS EF/NS 10.00 2.6 Nitrate (mg/L) ------------EF/NS EF/NS Nitrite (mg/L) 1.00 0.37 EF/NS EF/NS Total Ammonia (mg/L) NNS ------< 0.50 EF/NS EF/NS Total Kjeldahl Nitrogen (TKN) (mg/L) NNS <1 EF/NS EF/NS __ --------Total Phosphorous (mg/L) NNS 0.17 EF/NS Phosphate, Ortho (mg/L) ----------EF/NS NNS <2.0 EF/NS EF/NS Sodium (mg/L) NNS 2.8 EF/NS Calcium (mg/L) NNS EF/NS 11 ------EF/NS EF/NS Chloride (mg/L) NNS 2.6 Microbiological Coliform, fecal (CFU/100 ml) EF/NS EF/NS NNS 20000

100.00

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E.Coli (MPN/100 ml)

EF/NS

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EF/NS

9000

MS4 Monitoring Data Nogales

RECEIVING WATER: Nogales Wash

Summer: June 1- October 31

WATERSHED: Santa Cruz					Winter:	November	1- May 31				
DESIGNATED USES: A&Ww, PBC		Perm	it Year 1	Permit	Year 2	Permi	t Year 3	Permit	Year 4	Permit	Year 5
AUTOSAMPLER STARTUP DATE: October 6, 201	1	Winter 2008-09	Summer 2009	Winter 2009-10	Summer 2010	Winter 2010-11	Summer 2011	Winter 2011- 12	Summer 2012	Winter 2012-13	Summer 2013
SAM	IPLING DATE							EF/NS	EF/NS	12/14/12	Pending
Total Metals											
Antimony (mg/L)	0.006							EF/NS	EF/NS	<0.0030	
Arsenic (mg/L)	0.050							EF/NS	EF/NS	<0.10	
Barium (mg/L)	2.000						-	EF/NS	EF/NS	0.033	
Beryllium (mg/L)	0.004							EF/NS	EF/NS	<0.0010	
Cadmium (mg/L)	0.005						-	EF/NS	EF/NS	<0.0010	
Chromium (mg/L)	0.100						-	EF/NS	EF/NS	<0.010	
Copper (mg/L)	1.300							EF/NS	EF/NS	0.034	
Lead (mg/L)	0.015							EF/NS	EF/NS	<0.015	
Mercury (mg/L)	0.002							EF/NS	EF/NS	<0.00020	
Nickel (mg/L)	0.140							EF/NS	EF/NS	<0.010	
Selenium (mg/L)	0.020							EF/NS	EF/NS	<0.0030	
Silver (mg/L)	NNS							EF/NS	EF/NS	<0.010	
Zinc (mg/L)	2.10							EF/NS	EF/NS	0.078	
Organic Toxic Pollutants											
Total Petroleum Hydrocarbons (TPH) (mg/L)	NNS			-			-	EF/NS	EF/NS	5.7	
Oil & Grease (Hexane Extr) (mg/L)	NNS					-		EF/NS	EF/NS	<10	
Chlorine, residual (mg/L)	0.70000						-	EF/NS	EF/NS	NS	
VOCs, Semi-VOCs and Pesticides											
Benzene (mg/L)	0.0050			-			-	EF/NS	EF/NS	<0.002	ANR
Ethylbenzene (mg/L)	0.0050							EF/NS	EF/NS	<0.002	ANR
Toluene (mg/L)	1.00							EF/NS	EF/NS	<0.002	ANR
Total Xylene (mg/L)	10.00	1	-	-		1	-	EF/NS	EF/NS	<0.002	ANR

MS4 Monitoring Data Nogales

RECEIVING WATER: Nogales Wash

WATERSHED: Santa Cruz

Winter: November 1- May 31

WATERSHED. Salita Gruz					Winter:	November	1- May 31				
DESIGNATED USES: A&Ww, PBC		Permi	t Year 1	Permit	Year 2	Permi	t Year 3	Permit	Year 4	Permit	Year 5
AUTOSAMPLER STARTUP DATE: October 6, 20	11	Winter 2008-09	Summer 2009	Winter 2009-10	Summer 2010	Winter 2010-11	Summer 2011	Winter 2011- 12	Summer 2012	Winter 2012-13	Summer 2013
SA	MPLING DATE							EF/NS	EF/NS	12/14/12	Pending
Acid Compounds											J
2-Chlorophenol (mg/L)	0.035							EF/NS	EF/NS	<0.010	ANR
2,4-Dichlorophenol (mg/L)	0.021						-	EF/NS	EF/NS	<0.010	ANR
2,4-Dimethylphenol (mg/L)	0.140						-	EF/NS	EF/NS	<0.010	ANR
4,6-Dinitrocreosol (mg/L)	NNS							EF/NS	EF/NS	<0.0030	ANR
2,4-Dinitrophenol (mg/L)	0.014							EF/NS	EF/NS	< 0.0030	ANR
2-Nitrophenol (mg/L)	NNS							EF/NS	EF/NS	<0.010	ANR
4-Nitrophenol (mg/L)	NNS							EF/NS	EF/NS	<0.010	ANR
P-Chloro-m-cresol (mg/L)	NNS		-				1	EF/NS	EF/NS	<0.010	ANR
Pentachlorophenol (mg/L)	0.001							EF/NS	EF/NS	<0.0050	ANR
Phenol (mg/L)	4.20		-				1	EF/NS	EF/NS	<0.010	ANR
2,4,6-Trichlorophenol (mg/L)	0.00320		-				1	EF/NS	EF/NS	<0.010	ANR
Bases/Neutrals											
Acenaphthene (mg/L)	0.42		-				1	EF/NS	EF/NS	<0.0040	ANR
Acenaphthylene (mg/L)	NNS						1	EF/NS	EF/NS	<0.0040	ANR
Anthracene (mg/L)	2.10							EF/NS	EF/NS	<0.0040	ANR
Benzo(a)anthracene (mg/L)	0.00190							EF/NS	EF/NS	<0.0040	ANR
Benzo(a)pyrene (mg/L)	0.00020							EF/NS	EF/NS	<0.0040	ANR
Benzo(b)fluoranthene (mg/L)	NNS							EF/NS	EF/NS	<0.0040	ANR
Benzo(g,h,i)perylene (mg/L)	NNS							EF/NS	EF/NS	<0.0040	ANR
Benzo(k)fluoranthene (mg/L)	0.0480							EF/NS	EF/NS	<0.0040	ANR
Chrysene (mg/L)	0.00479							EF/NS	EF/NS	<0.0040	ANR
Dibenzo(a,h)anthracene (mg/L)	0.00190							EF/NS	EF/NS	<0.0040	ANR
Diethyl phthalate (mg/L)	5.60							EF/NS	EF/NS	<0.0040	ANR
Dimethyl phthalate (mg/L)	NNS							EF/NS	EF/NS	<0.0040	ANR
Di-n-butyl phthalate (mg/L)	NNS							EF/NS	EF/NS	<0.0040	ANR
Di-n-octyl phthalate (mg/L)	2.80							EF/NS	EF/NS	<0.0040	ANR
1,2-Diphenylhydrazine (Azobenzene) (mg/L)	NNS							EF/NS	EF/NS	<0.0040	ANR
Fluoranthene (mg/L)	0.28							EF/NS	EF/NS	<0.0040	ANR
Fluorene (mg/L)	0.28							EF/NS	EF/NS	<0.0040	ANR
Indeno(1,2,3-cd)pyrene (mg/L)	NNS							EF/NS	EF/NS	<0.0040	ANR
Naphthalene (mg/L)	0.14		-					EF/NS	EF/NS	<0.0040	ANR
Phenanthrene (mg/L)	NNS							EF/NS	EF/NS	<0.0040	ANR
Pyrene (mg/L)	0.21							EF/NS	EF/NS	<0.0040	ANR

MS4 Monitoring Data Nogales

RECEIVING WATER: Nogales Wash

WATERSHED: Santa Cruz

Winter: November 1- May 31

DESIGNATED USES: A&Ww, PBC		Perm	it Year 1	Permit	Year 2	Permi	t Year 3	Permit	Year 4	Permit	Year 5
AUTOSAMPLER STARTUP DATE: October 6, 201	1	Winter 2008-09	Summer 2009	Winter 2009-10	Summer 2010	Winter 2010-11	Summer 2011	Winter 2011- 12	Summer 2012	Winter 2012-13	Summer 2013
SAM	PLING DATE							EF/NS	EF/NS	12/14/12	Pending
Pesticides											
Aldrin (mg/L)	0.0020							EF/NS	EF/NS	<0.00051	ANR
Alpha BHC (mg/L)	NNS			-		1	1	EF/NS	EF/NS	<0.00051	ANR
Beta BHC (mg/L)	NNS					1	-	EF/NS	EF/NS	<0.00051	ANR
Delta BHC (mg/L)	NNS			-		1	1	EF/NS	EF/NS	<0.00051	ANR
Gamma BHC (mg/L)	NNS					1	-	EF/NS	EF/NS	<0.00051	ANR
Chlordane (mg/L)	0.0020			-		1	1	EF/NS	EF/NS	<0.00051	ANR
4,4-DDD (mg/L)	NNS					1	-	EF/NS	EF/NS	<0.00051	ANR
4,4-DDE (mg/L)	NNS			-		1	1	EF/NS	EF/NS	<0.00051	ANR
4,4-DDT (mg/L)	NNS					1	-	EF/NS	EF/NS	<0.00051	ANR
Dieldrin (mg/L)	0.0020			-		1	1	EF/NS	EF/NS	<0.00051	ANR
Alpha-endenosulfan (mg/L)	NNS					1	-	EF/NS	EF/NS	<0.00051	ANR
Beta-endenosulfan (mg/L)	NNS							EF/NS	EF/NS	<0.00051	ANR
Endosulfan sulfate (mg/L)	NNS					1	-	EF/NS	EF/NS	<0.00051	ANR
Endrin (mg/L)	0.0020					1	-	EF/NS	EF/NS	<0.00051	ANR
Endrin aldehyde (mg/L)	NNS			-		1	-	EF/NS	EF/NS	<0.00051	ANR
Heptachlor (mg/L)	0.00040							EF/NS	EF/NS	<0.00051	ANR
Heptachlor epoxide (mg/L)	0.00020			-		1	-	EF/NS	EF/NS	<0.00051	ANR
Toxaphene (mg/L)	NNS							EF/NS	EF/NS	<0.00025	ANR

NNS - No Numerical Standard

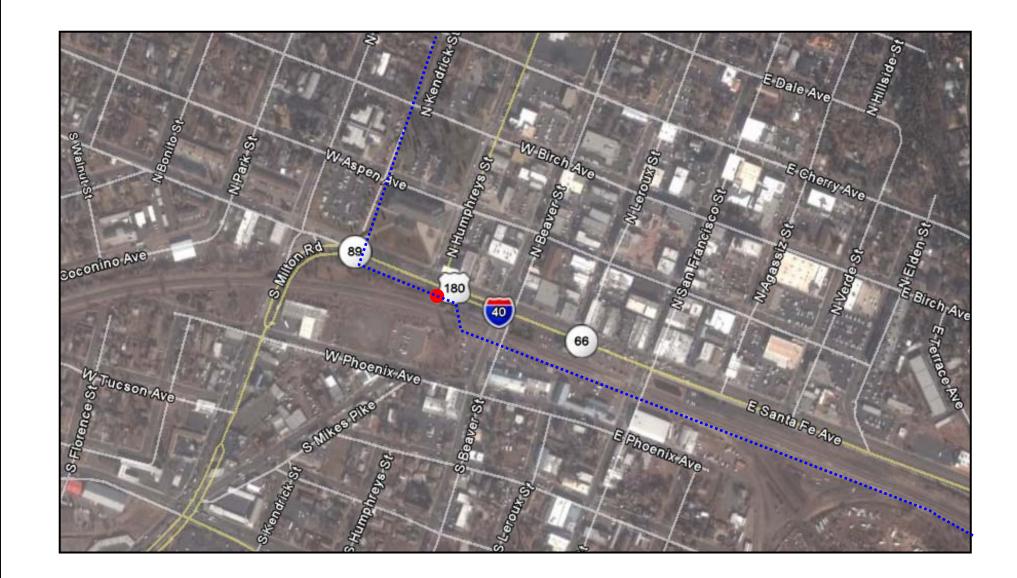
EF - Equipment Failure

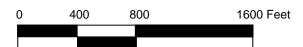
IS - Insufficient Sample

NS - Not Sampled

ANR - Analyses Not Required

Attachment 3 MS4 Monitoring Location Site Maps









ARIZONA DEPARTMENT OF TRANSPORTATION AZPDES STORM WATER MONITORING SITE

Legend

Stormwater Sampling Location

···· Rio de Flag

Vicinity Map



Photograph: Looking south at sampling location along north bank of Rio de Flag in Flagstaff, AZ



MS4 Sampling Location Flagstaff, Arizona



0 50

ADOT Outfall 101-13.68

Northeast Corner of Loop 101 and Skunk Creek Bridge, Peoria, Arizona





ARIZONA DEPARTMENT OF TRANSPORTATION STORMWATER MONITORING SITE

Vicinity Map Perk Well Rd W

Photograph: Looking south along north bank of Skunk Creek



MS4 Sampling Location Phoenix, Arizona







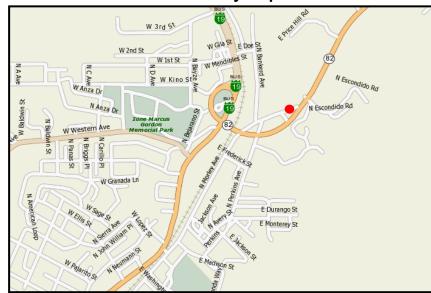


ARIZONA DEPARTMENT OF TRANSPORTATION STORMWATER MONITORING SITE

<u>Legend</u>

- Stormwater Sampling Location
- Nogales Wash
- Stormwater Conveyance

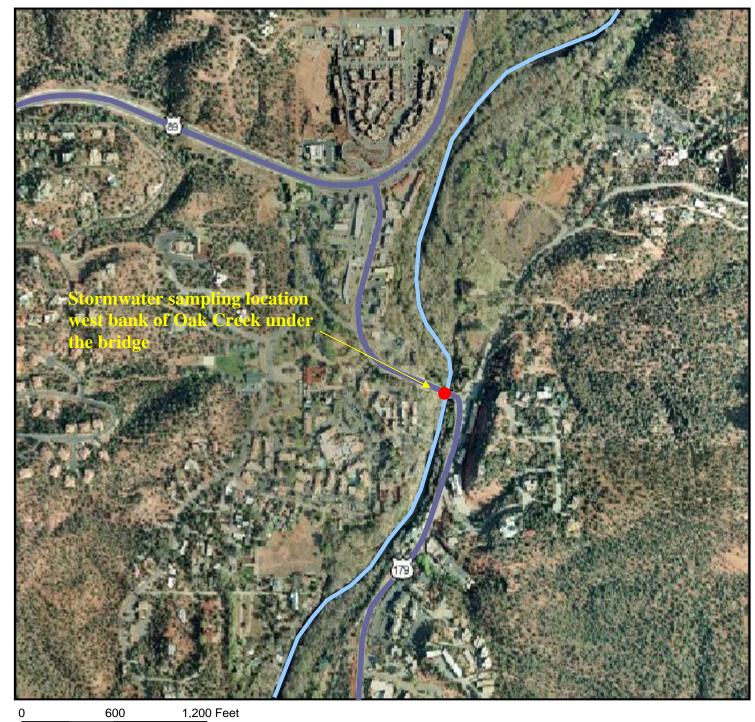
Vicinity Map



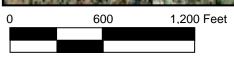
Photograph: Looking north at sampling location along north side of SR 82 in Nogales, AZ



MS4 Sampling Location Nogales, Arizona

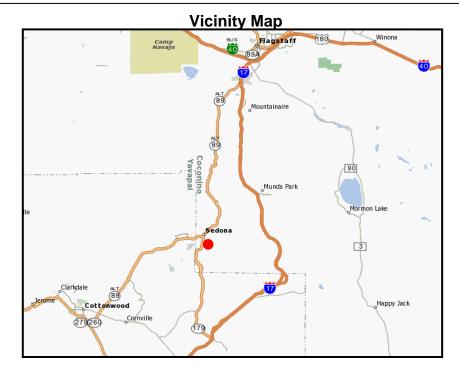






Legend

- Stormwater Sampling Location
- Oak Creek
- State Routes 89 & 179



Photograph: Looking southwest at west bank of Oak Creek beneath SR179 Bridge over Oak Creek, Sedona, AZ

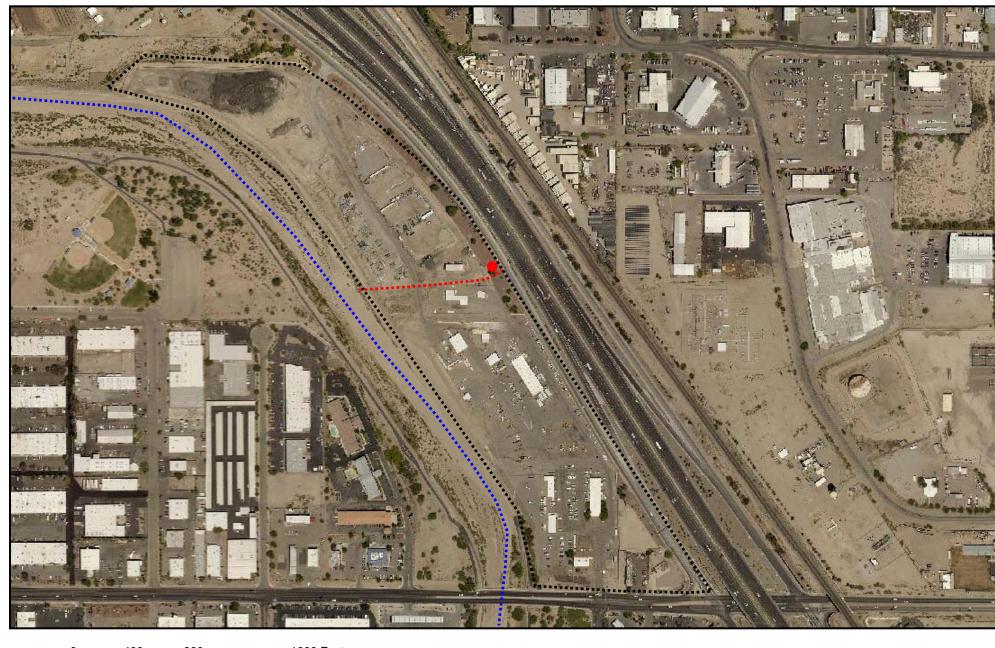


MS4 Sampling Location Sedona, AZ

Engineering and Environmental Consultants, Inc. 7878 North 16th Street, Suite 140, Phoenix, AZ 85020



ARIZONA DEPARTMENT OF TRANSPORTATION STORMWATER MONITORING SITE



800 1600 Feet





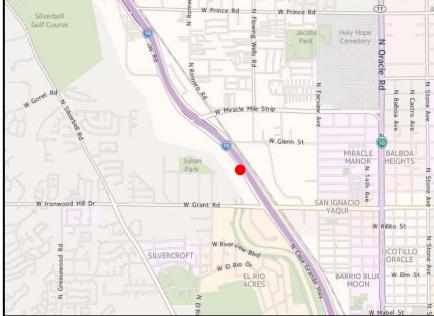
ARIZONA DEPARTMENT OF TRANSPORTATION AZPDES STORM WATER MONITORING SITE

<u>Legend</u>

- Stormwater Sampling Location
- ---- Santa Cruz
- Stormwater Conveyance

····· ADOT Grant Road Maintenance Yard

Vicinity Map



Photograph: Looking north at sampling location located within ADOT Grant Road Maintenance Yard in Tucson, AZ



MS4 Sampling Location Tucson, Arizona

Attachment 4 MS4 Stormwater Sampling Parameters and Analytical Methods

ADOT Stormwater Sampling Parameters, Analytical Methods, and Frequency

PARAMETER	METHOD NO.	SAMPLING FREQUENCY
Flow	Field	Each time an outfall is sampled
pH	Field/Grab	Once each wet season
Temperature	Field/Grab	Once each wet season
Hardness	130.1	Once each wet season
Specific conductance (umhos/cm)	120.1	Once each wet season
Total Dissolved Solids (TDS) (mg/L)	2540 C-2011	Once each wet season
Total Suspended Solids (TSS) (mg/L)	2540 D-2011	Once each wet season
Turbidity (NTU)	2130 B-2011	Once each wet season
Biochemical Oxygen Demand (BOD) (mg/L)	5210 B-2011	Once each wet season
Chemical Oxygen Demand (COD) (mg/L)	410.4	Once each wet season
Surfactants (MBAS)	5540 C-2011	Once each wet season
Inorganics (mg/L)		
Cyanide, total	4500CN E-2011/ Grab	Once each wet season
Sulphates	300.0	Once each wet season
Nutrients (mg/L)		
Nitrate (NO3-N)	353.2	Once each wet season
Nitrite (N02-N)	353.2	Once each wet season
Ammonia as Ń	350.1	Once each wet season
Total Kjeldahl Nitrogen (TKN) as N	351.2	Once each wet season
Total Phosphorus	365.4	Once each wet season
Ortho-P	4500P-E	Once each wet season
Sodium	200.7	Once each wet season
Calcium	200.7	Once each wet season
Chloride	300.0	Once each wet season
Microbiological		
Escherichia coli (E. coli) (MPN /100 ml)	9223B-2004/ Grab	Once each wet season
Fecal Coliform (col/100ml)	SM9222D	Once each wet season
Metals1 (mg/L)		
Antimony	200.7	Once each wet season
Arsenic	200.7	Once each wet season
Barium	200.7	Once each wet season
Beryllium	200.7	Once each wet season
Cadmium	200.7	Once each wet season
Chromium	200.7	Once each wet season
Copper	200.7	Once each wet season
Lead	200.7	Once each wet season
Mercury	245.1	Once each wet season
Nickel	200.7	Once each wet season
Selenium	200.7	Once each wet season
Silver	200.7	Once each wet season
Zinc	200.7	Once each wet season
Organic Toxic Pollutants (mg/L)		
Total Petroleum Hydrocarbons (TPH)	3510C/DRO/ Grab	Once each wet season
Total Oil and Grease	1664A/ Grab	Once each wet season
Chlorine	4500Cl G-2011	Once each wet season

PARAMETER	METHOD NO.	SAMPLING FREQUENCY
Volatile Organic Compounds (mg/L)	I	
Benzene	602/ Grab	Once each wet season for years 2 & 4
Ethylbenzene	602/ Grab	Once each wet season for years 2 & 4
Toluene	602/ Grab	Once each wet season for years 2 & 4
Total xylene ²	602/ Grab	Once each wet season for years 2 & 4
Acid Compounds (mg/L)		·
2-chlorophenol	8270 C	Once each wet season for years 2 & 4
2,4-dichlorophenol	8270 C	Once each wet season for years 2 & 4
2,4-dimethylphenol	8270 C	Once each wet season for years 2 & 4
4,6-dinitro-o-cresol	8270 C	Once each wet season for years 2 & 4
2,4-dinitrophenol	8270 C	Once each wet season for years 2 & 4
2-nitrophenol	8270 C	Once each wet season for years 2 & 4
4-nitrophenol	8270 C	Once each wet season for years 2 & 4
p-chloro-m-cresol	8270 C	Once each wet season for years 2 & 4
Pentachlorophenol	8270 C	Once each wet season for years 2 & 4
Phenol	8270 C	Once each wet season for years 2 & 4
2,4,6-trichlorophenol	8270 C	Once each wet season for years 2 & 4
Bases/Neutrals (mg/L)		•
Acenaphthene (PAH)	8270 C	Once each wet season for years 2 & 4
Acenaphthylene (PAH)	8270 C	Once each wet season for years 2 & 4
Anthracene (PAH)	8270 C	Once each wet season for years 2 & 4
Benz(a)anthracene (PAH)	8270 C	Once each wet season for years 2 & 4
Benzo(a)pyrene (PAH)	8270 C	Once each wet season for years 2 & 4
Benzo(b)fluoranthene (PAH)	8270 C	Once each wet season for years 2 & 4
Benzo(g,h,i)perylene (PAH)	8270 C	Once each wet season for years 2 & 4
Benzo(k)fluoranthene (PAH)	8270 C	Once each wet season for years 2 & 4
Chrysene (PAH)	8270 C	Once each wet season for years 2 & 4
Dibenzo(a,h)anthracene (PAH)	8270 C	Once each wet season for years 2 & 4
Diethyl phthalate	8270 C	Once each wet season for years 2 & 4
Dimethyl phthalate	8270 C	Once each wet season for years 2 & 4
Di-n-butyl phthalate	8270 C	Once each wet season for years 2 & 4
Di-n-octyl phthalate	8270 C	Once each wet season for years 2 & 4
1,2-diphenylhydrazine (as azobenzene)	8270 C	Once each wet season for years 2 & 4
Fluroranthene (PAH)	8270 C	Once each wet season for years 2 & 4
Fluorene (PAH)	8270 C	Once each wet season for years 2 & 4
Indeno(1,2,3-cd)pyrene (PAH)	8270 C	Once each wet season for years 2 & 4
Naphthalene (PAH)	8270 C	Once each wet season for years 2 & 4
Phenanthrene (PAH)	8270 C	Once each wet season for years 2 & 4
Pyrene (PAH)	8270 C	Once each wet season for years 2 & 4
Pesticides (mg/L)		,
Aldrin	8081 A	Once each wet season for years 2 & 4
Alpha-BHC	8081 A	Once each wet season for years 2 & 4
Beta-BHC	8081 A	Once each wet season for years 2 & 4
Gamma-BHC	8081 A	Once each wet season for years 2 & 4
Delta-BHC	8081 A	Once each wet season for years 2 & 4
Chlordane	8081 A	Once each wet season for years 2 & 4
4,4'-DDT	8081 A	Once each wet season for years 2 & 4
4,4'-DDE	8081 A	Once each wet season for years 2 & 4
4,4'-DDD	8081 A	Once each wet season for years 2 & 4
Dieldrin	8081 A	Once each wet season for years 2 & 4

PARAMETER	METHOD NO.	SAMPLING FREQUENCY
Alpha-endosulfan	8081 A	Once each wet season for years 2 & 4
Beta-endosulfan	8081 A	Once each wet season for years 2 & 4
Endosulfan sulfate	8081 A	Once each wet season for years 2 & 4
Endrin	8081 A	Once each wet season for years 2 & 4
Endrin aldehyde	8081 A	Once each wet season for years 2 & 4
Heptachlor	8081 A	Once each wet season for years 2 & 4
Heptachlor epoxide	8081 A	Once each wet season for years 2 & 4
Toxaphene	8081 A	Once each wet season for years 2 & 4

Attachment 5 MS4 Pollutant Loading Calculations

2009 Pollutant Loading Estimates Phoenix MS4 Monitoring Location

Annual Pollutant Loading: ADOT's Phoenix Area MS4-Winter					
				Winter Event Load	
Pollutant	Annual Runoff	Pollutant Concentration	Area	(lbs)	
BOD	0.19665	13	3.7	2.52	
COD	0.19665	110	3.7	21.29	
TSS	0.19665	85	3.7	16.45	
TDS	0.19665	290	3.7	47.69	
Total Nitrogen	0.19665	4.15	3.7	0.68	
Total Amonia	0.19665	0.66	3.7	0.11	
TKN	0.19665	3	3.7	0.49	
Total Phosphorous	0.19665	NA	3.7	0.00	
Barium	0.19665	0.098	3.7	0.02	
Calcium	0.19665	46	3.7	7.56	
Copper	0.19665	0.023	3.7	0.0038	
Lead	0.19665	0.0084	3.7	0.0014	
Sodium	0.19665	49	3.7	8.06	
Zinc	0.19665	0.053	3.7	0.01	
Specific conductance (mg/L)	0.19665	550	3.7	90.44	
Turbidity (NTU)	0.19665	49	3.7	8.06	
Sulfates (mg/L)	0.19665	56	3.7	9.21	
Nitrate (mg/L)	0.19665	3.3	3.7	0.54	
Nitrite (mg/L)	0.19665	0.19	3.7	0.03	
Phosphate, Ortho (mg/L)	0.19665	NA	3.7	0.00	
Chloride (mg/L)	0.19665	69	3.7	11.35	
Ethylbenzene (mg/L)	0.19665	0.00068	3.7	0.00011	
Coliform, fecal (col/100 ml)	0.19665	1,200	3.7	0.90	
E.Coli (cfu/100 ml)	0.19665	24,200	3.7	18.14	
Antimony (mg/L)	0.19665	<0.020	3.7	0.00	
Arsenic (mg/L)	0.19665	<0.020	3.7	0.00	
Total Petroleum Hydrobarbons (TPH) (mg/L)	0.19665	<5.0	3.7	0.00	
Chlorine, residual (mg/L)	0.19665	0.2	3.7	0.03	
Total Xylene (mg/L)	0.19665	0.0039	3.7	0.0006	
MBAS (mg/L)	0.19665	0.3	3.7	0.05	

Winter Event Runoff	0.19665
Winter Event Rainfall	0.23
Percent of Rainfall Runoff	0.9
Percent of Site Impervious	100%
Runoff Factor	0.95

Annual Pollutant Loading: ADOT's Phoenix Area MS4- Mean/Annual Loading					
Pollutant	Annual Runoff	Pollutant Concentration	Area	Annual Load (lbs)	
BOD	8.83215	13	3.7	96.01	
COD	8.83215	110	3.7	812.40	
TSS	8.83215	85	3.7	627.76	
TDS	8.83215	290	3.7	2,141.78	
Total Nitrogen	8.83215	4.15	3.7	30.65	
Total Amonia	8.83215	0.66	3.7	4.87	
TKN	8.83215	3	3.7	22.16	
Total Phosphorous	8.83215	NA	3.7	0.00	
Barium	8.83215	0.098	3.7	0.72	
Calcium	8.83215	46	3.7	339.73	
Copper	8.83215	0.023	3.7	0.17	
Lead	8.83215	0.0084	3.7	0.06	
Sodium	8.83215	49	3.7	361.89	
Zinc	8.83215	0.053	3.7	0.39	
Specific conductance (mg/L)	8.83215	550	3.7	4,061.99	
Turbidity (NTU)	8.83215	49	3.7	361.89	
Sulfates (mg/L)	8.83215	56	3.7	413.58	
Nitrate (mg/L)	8.83215	3.3	3.7	24.37	
Nitrite (mg/L)	8.83215	0.19	3.7	1.40	
Phosphate, Ortho (mg/L)	8.83215	NA	3.7	0.00	
Chloride (mg/L)	8.83215	69	3.7	509.60	
Ethylbenzene (mg/L)	8.83215	0.00068	3.7	0.00502	
Coliform, fecal (col/100 ml)	8.83215	1,200	3.7	40.39	
E.Coli (cfu/100 ml)	8.83215	24,200	3.7	814.56	
Antimony (mg/L)	8.83215	<0.020	3.7	0.00	
Arsenic (mg/L)	8.83215	<0.020	3.7	0.00	
Total Petroleum Hydrobarbons (TPH) (mg/L)	8.83215	<5.0	3.7	0.00	
Chlorine, residual (mg/L)	8.83215	0.2	3.7	1.48	
Total Xylene (mg/L)	8.83215	0.0039	3.7	0.0288	
MBAS (mg/L)	8.83215	0.3	3.7	2.22	

Winter Runoff	8.83215
Winter Rainfall	10.33
Percent of Rainfall Runoff	0.9
Percent of Site Impervious	100%
Runoff Factor	0.95

2009 Pollutant Loading Estimates Tucson MS4 Monitoring Location

Annual Pollutant Loading: ADOT's Tucson Area MS4- Winter					
Pollutant	Annual Runoff	Pollutant Concentration	Area	Annual Load (lbs)	
BOD	0.45315	65	4.8	31.95	
COD	0.45315	560	4.8	275.28	
TSS	0.45315	110	4.8	54.07	
TDS	0.45315	680	4.8	334.27	
Total Nitrogen	0.45315	12	4.8	5.90	
Total Ammonia	0.45315	6.2	4.8	3.05	
TKN	0.45315	12	4.8	5.90	
Total Phosphorous	0.45315	0.42	4.8	0.21	
Copper (mg/L)	0.45315	NA	4.8	0.00	
Turbidity (NTU)	0.45315	94	4.8	46.21	
Cyanide, total (mg/L)	0.45315	0.0059	4.8	0.0029	
Sulfates (mg/L)	0.45315	110	4.8	54.07	
Nitrate (mg/L)	0.45315	NA	4.8	0.00	
Phosphate, Ortho (mg/L)	0.45315	0.62	4.8	0.30	
Sodium	0.45315	NA	4.8	0.00	
Barium (mg/L)	0.45315	0.2	4.8	0.10	
Lead (mg/L)	0.45315	0.015	4.8	0.01	
Calcium	0.45315	NA	4.8	0.00	
Chloride (mg/L)	0.45315	26	4.8	12.78	
Antimony (mg/L)	0.45315	NA	4.8	0.00	
Arsenic (mg/L)	0.45315	<0.020	4.8	0.00	
Selenium (mg/L)	0.45315	NA	4.8	0.00	
Zinc (mg/L)	0.45315	NA	4.8	0.00	
Total Petroleum Hydrobarbons (TPH) (mg/L)	0.45315	<5.6	4.8	0.00	
Ethylbenzene	0.45315	<0.0010	4.8	0.00	
MBAS (mg/L)	0.45315	NA	4.8	0.00	
Specific conductance (mg/L)	0.45315	720	4.8	353.94	
Toluene - d8 (mg/L)	0.45315	99	4.8	48.67	
Dibromofluoromethane (mg/L)	0.45315	100	4.8	49.16	

Annual Runoff	0.45315
Annual Rainfall	0.53
Percent of Rainfall Runoff	0.9
Percent of Site Impervious	100%
Runoff Factor	0.95

2009 Pollutant Loading Estimates Tucson MS4 Monitoring Location

Annual Pollutant Loading: ADOT's Tucson Area MS4- Summer					
Pollutant	Annual Runoff	Pollutant Concentration	Area	Annual Load (lbs)	
BOD	0.342	44	4.8	16.32	
COD	0.342	640	4.8	237.44	
TSS	0.342	160	4.8	59.36	
TDS	0.342	680	4.8	252.28	
Total Nitrogen	0.342	7.01	4.8	2.60	
Total Ammonia	0.342	6.7	4.8	2.49	
TKN	0.342	14	4.8	5.19	
Total Phosphorous	0.342	0.36	4.8	0.13	
Copper	0.342	0.033	4.8	0.01	
Turbidity (NTU)	0.342	NA	4.8	0.00	
Cyanide, total (mg/L)	0.342	NA	4.8	0.00	
Sulfates (mg/L)	0.342	68	4.8	25.23	
Nitrate (mg/L)	0.342	0.21	4.8	0.08	
Phosphate, Ortho (mg/L)	0.342	NA	4.8	0.00	
Sodium	0.342	18	4.8	6.68	
Barium (mg/L)	0.34	0.20	4.8	0.07	
Lead	0.34	NA	4.8	0.00	
Calcium	0.342	100	4.8	37.10	
Chloride (mg/L)	0.342	19	4.8	7.05	
Antimony (mg/L)	0.342	0.0046	4.8	0.0017	
Arsenic (mg/L)	0.342	0.003	4.8	0.0011	
Selenium (mg/L)	0.342	0.2	4.8	0.0742	
Zinc (mg/L)	0.342	0.18	4.8	0.07	
Total Petroleum Hydrobarbons (TPH) (mg/L)	0.342	<6.7	4.8	0.0000	
Ethylbenzene	0.342	<0.00050	4.8	0.0000	
MBAS (mg/L)	0.342	11	4.8	4.0810	
Specific conductance (mg/L)	0.342	690	4.8	255.99	
Toluene - d8 (mg/L)	0.342	NA	4.8	0.0000	
Dibromofluoromethane (mg/L)	0.342	NA	4.8	0.0000	

Annual Runoff	0.342
Annual Rainfall	0.4
Percent of Rainfall Runoff	0.9
Percent of Site Impervious	100%
Runoff Factor	0.95

Annual Pollutant Loading: ADOT's Tucson Area MS4- Mean/Annual					
Pollutant	Annual Runoff	Pollutant Concentration	Area	Annual Load (lbs)	
BOD	9.1143	54.5	4.8	538.85	
COD	9.1143	600	4.8	5,932.32	
TSS	9.1143	135	4.8	1,334.77	
TDS	9.1143	680	4.8	6,723.29	
Total Nitrogen	9.1143	9.505	4.8	93.98	
Total Ammonia	9.1143	6.45	4.8	63.77	
TKN	9.1143	13	4.8	128.53	
Total Phosphorous	9.1143	0.39	4.8	3.86	
Copper	9.1143	0.0165	4.8	0.16	
Turbidity (NTU)	9.1143	47	4.8	464.70	
Cyanide, total (mg/L)	9.1143	0.00295	4.8	0.03	
Sulfates (mg/L)	9.1143	89	4.8	879.96	
Nitrate (mg/L)	9.1143	0.105	4.8	1.04	
Phosphate, Ortho (mg/L)	9.1143	0.31	4.8	3.07	
Sodium	9.1143	9	4.8	88.98	
Barium	9.1143	0.2	4.8	1.98	
Lead	9.1143	0.0075	4.8	0.07	
Calcium	9.1143	50	4.8	494.36	
Chloride (mg/L)	9.1143	22.5	4.8	222.46	
Antimony (mg/L)	9.1143	9.5	4.8	93.928	
Arsenic (mg/L)	9.1143	0.0015	4.8	0.015	
Selenium (mg/L)	9.1143	0.1	4.8	0.989	
Zinc (mg/L)	9.1143	0.09	4.8	0.89	
Total Petroleum Hydrobarbons (TPH) (mg/L)	9.1143	3.1	4.8	30.650	
Ethylbenzene	9.1143	<5.6	4.8	0.000	
MBAS (mg/L)	9.1143	5.5	4.8	54.380	
Specific conductance (mg/L)	9.1143	705	4.8	6,970.47	
Toluene - d8 (mg/L)	9.1143	49.5	4.8	489.416	
Dibromofluoromethane (mg/L)	9.1143	50	4.8	494.360	

Annual Runoff	9.1143
Annual Rainfall	10.66
Percent of Rainfall Runoff	0.9
Percent of Site Impervious	100%
Runoff Factor	0.95

Pollutant Loading Estimate ADOT Phoenix MS4 2010 Reporting Period

Annual Miscellaneous Pollutant Loading: Phoenix MS4-Summer (7/21/10)					
Pollutant	Annual Runoff	Pollutant Concentration	Area	Summer Event Load (lbs)	
Sulfates	0.47025	69	3.7	27.13	
Phosphate, Ortho	0.47025	46	3.7	18.09	
Total Amonia	0.47025	2.6	3.7	NA	
Sodium (mg/L)	0.47025	85	3.7	33.42	
Calcium (mg/L)	0.47025	64	3.7	25.17	
Chloride (mg/L)	0.47025	130	3.7	51.12	
MBAS	0.47025	1.1	3.7	0.43	

Summer Event Runoff	0.47025
Summer Event Rainfall	0.55
Percent of Rainfall Runoff	0.9
Percent of Site Impervious	100%
Runoff Factor	0.95

Pollutant Loading Estimate ADOT Phoenix MS4 2010 Reporting Period

Annual Miscellaneous Pollutant Loading: Phoenix MS4-Winter (3/1/10)					
			-	Winter Event Load	
Pollutant	Annual Runoff	Pollutant Concentration	Area	(lbs)	
Sulfates	0.23	7.6	3.7	1.46	
Phosphate, Ortho	0.23	0.48	3.7	0.09	
Total Amonia	0.23	0.48	3.7	NA	
Sodium (mg/L)	0.23	1.3	3.7	0.25	
Calcium (mg/L)	0.23	150	3.7	28.85	
Chloride (mg/L)	0.23	6.9	3.7	1.33	
Winter Event Rainfall	0	-			
Percent of Rainfall Runoff	0.9	1			
Percent of Site Impervious	100%	1			
Runoff Factor	0.95	1			

Pollutant Loading Estimate ADOT Phoenix MS4 2010 Reporting Period

Annual Miscellaneous Pollutant Loading: Phoenix MS4- Mean						
Pollutant	Annual Runoff	Pollutant Concentration	Area	Annual Load (lbs)		
Sulfates	12.02985	38.3	3.7	385.27		
Phosphate, Ortho	12.02985	23.24	3.7	233.78		
Total Amonia	12.02985	1.54	3.7	15.49		
Sodium (mg/L)	12.02985	43.15	3.7	434.06		
Calcium (mg/L)	12.02985	107	3.7	1,076.35		
Chloride (mg/L)	12.02985	68045	3.7	684,489.19		
MBAS	12.02985	0.55	3.7	5.53		
Annual Runoff	12.02985	-				
Annual Rainfall	14.07	1				
Percent of Rainfall Runoff	0.9	1				
Percent of Site Impervious	100%					
Runoff Factor	0.95					

Pollutant Loading Estimate ADOT Tucson MS4 2010 Reporting Period

Annual Miscel	Annual Miscellaneous Pollutant Loading: Tucson MS4- Summer (6/30/09)					
Pollutant	Annual Runoff	Pollutant Concentration	Area	Summer Event Load (lbs)		
Sulfates	0.342	68	4.8	25.23		
Total Amonia	0.342	6.7	4.8	2.49		
Sodium (mg/L)	0.342	18	4.8	6.68		
Calcium (mg/L)	0.342	100	4.8	37.10		
Chloride (mg/L)	0.342	19	4.8	7.05		
Selenium (mg/L)	0.342	0.02	4.8	0.01		
MBAS	0.342	11	4.8	4.08		
Summer Event Runoff	0.342	-				
Summer Event Rainfall	0.4	1				

0.9

100% 0.95

Percent of Rainfall Runoff

Percent of Site Impervious
Runoff Factor

Pollutant Loading Estimate ADOT Tucson MS4 2010 Reporting Period

Annual Miscellaneous Pollutant Loading: Tucson MS4- Winter (4/23/10)						
				Winter Event Load		
Pollutant	Annual Runoff	Pollutant Concentration	Area	(lbs)		
Phosphate, Ortho	0.11115	310	4.8	37.38		
Sodium (mg/L)	0.11115	18	4.8	2.17		
Calcium (mg/L)	0.11115	150	4.8	18.09		
Chloride (mg/L)	0.11115	14	4.8	1.69		
Oil & Grease Hexane	0.11115	9.2	4.8	1.11		
Summer Event Runoff	0.11115	-				
Summer Event Rainfall	0.13	1				
Percent of Rainfall Runoff	0.9	1				
Percent of Site Impervious	100%]				
Runoff Factor	0.95]				

Pollutant Loading Estimate ADOT Tucson MS4 2010 Reporting Period

Annual Miscellaneous Pollutant Loading: Tucson MS4- Mean						
Pollutant	Annual Runoff	Pollutant Concentration	Area	Annual Load (lbs)		
Sulfates	9.1143	189	4.8	1,868.68		
Total Amonia	9.1143	3.35	4.8	33.12		
Sodium (mg/L)	9.1143	18	4.8	177.97		
Calcium (mg/L)	9.1143	125	4.8	1,235.90		
Chloride (mg/L)	9.1143	16.5	4.8	163.14		
Selenium (mg/L)	9.1143	0.01	4.8	0.10		
MBAS	9.1143	5.5	4.8	54.38		
Phosphate, Ortho	9.1143	155	4.8	1,532.51		
Oil & Grease Hexane	9.1143	4.6	4.8	45.48109		
Annual Runoff	9.1143					
Annual Rainfall	10.66					
Percent of Rainfall Runoff	0.9					
Percent of Site Impervious	100%					
Runoff Factor	0.95					

Pollutant Loading: Phoenix MS4-Summer Season (No Sample collected due to equipment failure)					
			Pollutant		
	Unit Conversion	Runnoff or R value	Concentration		
Pollutant	Factor	(inches)	(mg/L)	Area (acres)	Pollutant (lbs)
Oil & Grease (grab)	0.226	0	NS	17.50	0.00
TPH (grab)	0.226	0	NS	17.50	0.00
E. Coli (grab)	103	0	NS	17.50	0.00
BOD	0.226	0	NS	17.50	0.00
COD	0.226	0	NS	17.50	0.00
TSS	0.226	0	NS	17.50	0.00
TDS	0.226	0	NS	17.50	0.00
Total Nitrogen	0.226	0	NS	17.50	0.00
TKN	0.226	0	NS	17.50	0.00
Total Phosphorous	0.226	0	NS	17.50	0.00
Metals - varies	0.226	0	NS	17.50	0.00
Drainage Area (acres)	17.5				
Winter Runoff	0				
Winter Rainfall	0				
Percent of Rainfall Runoff	0.9				
Percent of Site Impervious	0.95				
Runoff Factor	0.905				

NS = No Sample

Simple Method Pollutant Calculation: L=0.226*R*C*A Simple Method Bacteria Calculation: L=103*R*C*A

Pollutant Loading: Tucson MS4-Summer Season (No Sample collected due to equipment failure)					
			Pollutant		
	Unit Conversion	Runnoff or R value	Concentration		
Pollutant	Factor	(inches)	(mg/L)	Area (acres)	Pollutant (lbs)
Oil & Grease (grab)	0.226	0	NS	4.80	0.00
TPH (grab)	0.226	0	NS	4.80	0.00
E. Coli (grab)	103	0	NS	4.80	0.00
BOD	0.226	0	NS	4.80	0.00
COD	0.226	0	NS	4.80	0.00
TSS	0.226	0	NS	4.80	0.00
TDS	0.226	0	NS	4.80	0.00
Total Nitrogen	0.226	0	NS	4.80	0.00
TKN	0.226	0	NS	4.80	0.00
Total Phosphorous	0.226	0	NS	4.80	0.00
Metals - varies	0.226	0	NS	4.80	0.00

Drainage Area (acres)	4.8
Winter Runoff	0
Winter Rainfall	0
Percent of Rainfall Runoff	0.9
Percent of Site Impervious	0.95
Runoff Factor	0.905

NS = No Sample

Simple Method Pollutant Calculation: L=0.226*R*C*A
Simple Method Bacteria Calculation: L=103*R*C*A

Pollutant Loading						
	Unit Conversion	Runnoff or R value	Pollutant Concentration			
Pollutant	Factor	(inches)	(mg/L)	Area (acres)	Pollutant (lbs)	
Oil & Grease (grab)	0.226	0.2052	9.9	4.80	2.20	
TPH (grab)	0.226	0.2052	1.8	4.80	0.40	
E. Coli (grab)	103	0.2052	ND	4.80	0.00	Note - billion colonies
BOD	0.226	0.2052	NS	4.80	0.00	
COD	0.226	0.2052	NS	4.80	0.00	
TSS	0.226	0.2052	NS	4.80	0.00	
TDS	0.226	0.2052	NS	4.80	0.00	
Total Nitrogen	0.226	0.2052	NS	4.80	0.00	
TKN	0.226	0.2052	NS	4.80	0.00	
Total Phosphorous	0.226	0.2052	NS	4.80	0.00	
Metals - varies	0.226	0.2052	NS	4.80	0.00	
Drainage Area (acres)	4.8					

 Winter Rainfall
 0.24

 Percent of Rainfall Runoff
 0.9

 Percent of Site Impervious
 0.95

 Runoff Factor
 0.905

0.2052

Simple Method Pollutant Calculation: L=0.226*R*C*A Simple Method Bacteria Calculation: L=103*R*C*A

NS = No Sample; ND = Non Detect

Winter Runoff

Annual Po	ollutant Loading: Tucs	son MS4- Event Mean Con	centration]
	Unit Conversion	Runnoff or R value			
Pollutant	Factor	(inches)	EMC (mg/L)	Area (acres)	Pollutant (lbs)
BOD	0.226	0.2052	NS	4.80	0.00
COD	0.226	0.2052	NS	4.80	0.00
TSS	0.226	0.2052	NS	4.80	0.00
TDS	0.226	0.2052	NS	4.80	0.00
Total Nitrogen	0.226	0.2052	NS	4.80	0.00
TKN	0.226	0.2052	NS	4.80	0.00
Total Phosphorous	0.226	0.2052	NS	4.80	0.00
Metals - varies	0.226	0.2052	NS	4.80	0.00
Drainage Area (acres)	4.8				
Winter Runoff	0.2052				
Winter Rainfall	0.24				
Percent of Rainfall Runoff	0.9	Note: Event Mean Concent	ration (EMC) is the p	ollutant concentration	of flow-weighted
Percent of Site Impervious	0.95	sampling (multiple aliquots)	collected during the	course of a storm.	
Runoff Factor	0.905	No flow weighted composit	e samples collected/a	nalved due to equipme	ent issues

NS = No Sample

Pollutant Loading: Pho	Pollutant Loading: Phoenix MS4-Winter Season (Partial sample collected 11/5/11)					
			Pollutant			
	Unit Conversion	Runnoff or R value	Concentration			
Pollutant	Factor	(inches)	(mg/L)	Area (acres)	Pollutant (lbs)	
Oil & Grease (grab)	0.226	0.2052	7.3	17.50	5.92	
TPH (grab)	0.226	0.2052	0.29	17.50	0.24	
E. Coli (grab)	103	0.2052	170	17.50	62,878.41	Note - billion colonies
BOD	0.226	0.2052	NS	17.50	0.00	
COD	0.226	0.2052	NS	17.50	0.00	
TSS	0.226	0.2052	NS	17.50	0.00	
TDS	0.226	0.2052	NS	17.50	0.00	
Total Nitrogen	0.226	0.2052	NS	17.50	0.00	
TKN	0.226	0.2052	NS	17.50	0.00	
Total Phosphorous	0.226	0.2052	NS	17.50	0.00	
Metals - varies	0.226	0.2052	NS	17.50	0.00	
						_
Drainage Area (acres)	17.5					
Winter Runoff	0.2052					
Winter Rainfall	0.24					
Percent of Rainfall Runoff	0.9					
Percent of Site Impervious	0.95	Simple Method Pollutant Ca	lculation: L=0.226*R*	C*A		
Runoff Factor	0.905	Simple Method Bacteria Cal	culation: L=103*R*C*.	A		

NS = No Sample

Annual Pollutant Loading: Phoenix MS4- Event Mean Concentration								
	Unit Conversion	Runnoff or R value						
Pollutant	Factor	(inches)	EMC (mg/L)	Area (acres)	Pollutant (lbs)			
BOD	0.226	0.2052	NS	17.50	0.00			
COD	0.226	0.2052	NS	17.50	0.00			
TSS	0.226	0.2052	NS	17.50	0.00			
TDS	0.226	0.2052	NS	17.50	0.00			
Total Nitrogen	0.226	0.2052	NS	17.50	0.00			
TKN	0.226	0.2052	NS	17.50	0.00			
Total Phosphorous	0.226	0.2052	NS	17.50	0.00			
Metals - varies	0.226	0.2052	NS	17.50	0.00			
Drainage Area (acres)	17.5							
Winter Runoff	0.2052							
Winter Rainfall	0.24							
Percent of Rainfall Runoff	0.9	Note: Event Mean Concentr	ration (EMC) is the po	ollutant concent	tration of flow-			
Percent of Site Impervious	0.95	weighted sampling (multiple	aliquots) collected du	uring the course	e of a storm.			
Runoff Factor	0.905	No flow weighted composite	e samples collected/ar	nalyed due to e	quipment issues			

NS = No Sample

Pollutant Loading: Nogales MS4-Summer Season (No Sample collected due to equipment failure)							
			Pollutant				
	Unit Conversion	Runnoff or R value	Concentration				
Pollutant	Factor	(inches)	(mg/L)	Area (acres)	Pollutant (lbs)		
Oil & Grease (grab)	0.226	0	NS	59.50	0.00		
TPH (grab)	0.226	0	NS	59.50	0.00		
E. Coli (grab)	103	0	NS	59.50	0.00		
BOD	0.226	0	NS	59.50	0.00		
COD	0.226	0	NS	59.50	0.00		
TSS	0.226	0	NS	59.50	0.00		
TDS	0.226	0	NS	59.50	0.00		
Total Nitrogen	0.226	0	NS	59.50	0.00		
TKN	0.226	0	NS	59.50	0.00		
Total Phosphorous	0.226	0	NS	59.50	0.00		
Metals - varies	0.226	0	NS	59.50	0.00		

Drainage Area (acres)	59.5
Winter Runoff	0
Winter Rainfall	0
Percent of Rainfall Runoff	0.9
Percent of Site Impervious	0.95
Runoff Factor	0.905

NS = No Sample

Simple Method Pollutant Calculation: L=0.226*R*C*A Simple Method Bacteria Calculation: L=103*R*C*A

		Simple Method Bacteria C	calculation: L=103°R	rCrA	_	
Pollutant Loading: Nogales	MS4-Winter Season	n (No Sample collected d	ue to equipment fa	ilure)		
			Pollutant			
	Unit Conversion	Runnoff or R value	Concentration			
Pollutant	Factor	(inches)	(mg/L)	Area (acres)	Pollutant (lbs)	
Oil & Grease (grab)	0.226	0	NS	59.50	0.00	
TPH (grab)	0.226	0	NS	59.50	0.00	
E. Coli (grab)	103	0	NS	59.50	0.00	Note - billion colonies
BOD	0.226	0	NS	59.50	0.00	
COD	0.226	0	NS	59.50	0.00	
TSS	0.226	0	NS	59.50	0.00	
TDS	0.226	0	NS	59.50	0.00	
Total Nitrogen	0.226	0	NS	59.50	0.00	
TKN	0.226	0	NS	59.50	0.00	
Total Phosphorous	0.226	0	NS	59.50	0.00	
Metals - varies	0.226	0	NS	59.50	0.00	
						-
Drainage Area (acres)	59.5					
Winter Runoff	0					
Winter Rainfall	0					
Percent of Rainfall Runoff	0.9					
Percent of Site Impervious	0.95	Simple Method Pollutant (Calculation: L=0.226	*R*C*A		
Runoff Factor	0.905	Simple Method Bacteria C	Calculation: L=103*R	*C*A		
NO N O I						

NS = No Sample

Annual Pollutant Loading: Nogales MS4- Event Mean Concentration							
	Unit Conversion	Runnoff or R value					
Pollutant	Factor	(inches)	EMC (mg/L)	Area (acres)	Pollutant (lbs)		
BOD	0.226	0.2052	NS	59.50	0.00		
COD	0.226	0.2052	NS	59.50	0.00		
TSS	0.226	0.2052	NS	59.50	0.00		
TDS	0.226	0.2052	NS	59.50	0.00		
Total Nitrogen	0.226	0.2052	NS	59.50	0.00		
TKN	0.226	0.2052	NS	59.50	0.00		
Total Phosphorous	0.226	0.2052	NS	59.50	0.00		
Metals - varies	0.226	0.2052	NS	59.50	0.00		
Drainage Area (acres)	59.5						
Winter Runoff	0.2052						
Winter Rainfall	0.24						
Percent of Rainfall Runoff		Note: Event Mean Concer			ion of flow-weighted		
Percent of Site Impervious	0.95	sampling (multiple aliquot	s) collected during th	ne course of a storm.			
Runoff Factor	0.905	No flow weighted compos	ite samples collected	d/analyed due to equi	pment issues		

NS = No Sample

Pollutant Loading: Sedona MS4-Summer Season (No Sample collected due to equipment failure)							
	Unit Conversion	Runnoff or R value	Pollutant Concentration				
Pollutant	Factor	(inches)	(mg/L)	Area (acres)	Pollutant (lbs)		
Oil & Grease (grab)	0.226	0	NS	7.35	0.00		
TPH (grab)	0.226	0	NS	7.35	0.00		
E. Coli (grab)	103	0	NS	7.35	0.00		
BOD	0.226	0	NS	7.35	0.00		
COD	0.226	0	NS	7.35	0.00		
TSS	0.226	0	NS	7.35	0.00		
TDS	0.226	0	NS	7.35	0.00		
Total Nitrogen	0.226	0	NS	7.35	0.00		
TKN	0.226	0	NS	7.35	0.00		
Total Phosphorous	0.226	0	NS	7.35	0.00		
Metals - varies	0.226	0	NS	7.35	0.00		
•							
Drainage Area (acres)	7.35						
Winter Runoff	0						
Winter Rainfall	0						
Percent of Rainfall Runoff	0.9						

Percent of Site Impervious	0.95
Runoff Factor	0.905

NS = No Sample

Simple Method Pollutant Calculation: L=0.226*R*C*A
Simple Method Bacteria Calculation: L=103*R*C*A

	10414114	Simple Method Bacteria C			7	
Pollutant Loading: Sedona N	1S4-Winter Season	(No Sample collected du		allure)		1
			Pollutant			
	Unit Conversion	Runnoff or R value	Concentration			
Pollutant	Factor	(inches)	(mg/L)	Area (acres)	Pollutant (lbs)	
Oil & Grease (grab)	0.226	0	NS	7.35	0.00	
TPH (grab)	0.226	0	NS	7.35	0.00	
E. Coli (grab)	103	0	NS	7.35	0.00	Note - billion colonies
BOD	0.226	0	NS	7.35	0.00	
COD	0.226	0	NS	7.35	0.00	
TSS	0.226	0	NS	7.35	0.00	
TDS	0.226	0	NS	7.35	0.00	
Total Nitrogen	0.226	0	NS	7.35	0.00	
TKN	0.226	0	NS	7.35	0.00	
Total Phosphorous	0.226	0	NS	7.35	0.00	
Metals - varies	0.226	0	NS	7.35	0.00	
						-
Drainage Area (acres)	7.35					
Winter Runoff	0					
Winter Rainfall	0					
Percent of Rainfall Runoff	0.9					
Percent of Site Impervious	0.95	Simple Method Pollutant (Calculation: L=0.22	26*R*C*A		
Runoff Factor	0.905	Simple Method Bacteria C	Calculation: L=103*	R*C*A		

NS = No Sample

Annual Pollutant Loading: Sedona MS4- Event Mean Concentration									
	Unit Conversion	Runnoff or R value							
Pollutant	Factor	(inches)	EMC (mg/L)	Area (acres)	Pollutant (lbs)				
BOD	0.226	0	NS	7.35	0.00				
COD	0.226	0	NS	7.35	0.00				
TSS	0.226	0	NS	7.35	0.00				
TDS	0.226	0	NS	7.35	0.00				
Total Nitrogen	0.226	0	NS	7.35	0.00				
TKN	0.226	0	NS	7.35	0.00				
Total Phosphorous	0.226	0	NS	7.35	0.00				
Metals - varies	0.226	0	NS	7.35	0.00				
Drainage Area (acres)	7.35								
Winter Runoff	0								
Winter Rainfall	0								
Percent of Rainfall Runoff	0.9	Note: Event Mean Concer	ntration (EMC) is	the pollutant concentr	ration of flow-				
Percent of Site Impervious	0.95	weighted sampling (multiple aliquots) collected during the course of a storm.							
Runoff Factor	0.905	No flow weighted compos	ite samples collec	ted/analyed due to ed	quipment issues				

NS = No Sample

Pollutant Loading: Flagst	Pollutant Loading: Flagstaff MS4-Summer Season (No Sample collected due to equipment failure)				
5 W	Unit Conversion	Runnoff or R value	Pollutant Concentration	A (Dall days (III a)
Pollutant	Factor	(inches)	(mg/L)	Area (acres)	Pollutant (lbs)
Oil & Grease (grab)	0.226	0	NS	20.00	0.00
TPH (grab)	0.226	0	NS	20.00	0.00
E. Coli (grab)	103	0	NS	20.00	0.00
BOD	0.226	0	NS	20.00	0.00
COD	0.226	0	NS	20.00	0.00
TSS	0.226	0	NS	20.00	0.00
TDS	0.226	0	NS	20.00	0.00
Total Nitrogen	0.226	0	NS	20.00	0.00
TKN	0.226	0	NS	20.00	0.00
Total Phosphorous	0.226	0	NS	20.00	0.00
Metals - varies	0.226	0	NS	20.00	0.00
Draina sa Araa (aaraa)	20				

Drainage Area (acres)	20
Winter Runoff	0
Winter Rainfall	0
Percent of Rainfall Runoff	0.9
Percent of Site Impervious	0.95
Runoff Factor	0.905

NS = No Sample

Simple Method Pollutant Calculation: L=0.226*R*C*A
Simple Method Bacteria Calculation: L=103*R*C*A

Miscellaneous Pollutant Loading Estimate ADOT Phoenix MS4 2011/2012 Reporting Period

Pollutant Loading: Flagstaff	MS4-Winter Season	1				
			Pollutant			
	Unit Conversion	Runnoff or R value	Concentration			
Pollutant	Factor	(inches)	(mg/L)	Area (acres)	Pollutant (lbs)	
Oil & Grease (grab)	0.226	0	NS	20.00	0.00	1
TPH (grab)	0.226	0	NS	20.00	0.00	
E. Coli (grab)	103	0	NS	20.00	0.00	Note - billion colonies
BOD	0.226	0	NS	20.00	0.00	
COD	0.226	0	NS	20.00	0.00	
TSS	0.226	0	NS	20.00	0.00	
TDS	0.226	0	NS	20.00	0.00	
Total Nitrogen	0.226	0	NS	20.00	0.00	
TKN	0.226	0	NS	20.00	0.00	
Total Phosphorous	0.226	0	NS	20.00	0.00	
Metals - varies	0.226	0	NS	20.00	0.00	
						•
Drainage Area (acres)	20					
Winter Runoff	0	1				
Winter Rainfall	0	1				
Percent of Rainfall Runoff	0.9					
Percent of Site Impervious	0.95	Simple Method Pollutant (Calculation: L=0.226	s*R*C*A		
Runoff Factor	0.905	Simple Method Bacteria C	alculation: L =103*R	2*C*A		

NS = No Sample

Miscellaneous Pollutant Loading Estimate ADOT Phoenix MS4 2011/2012 Reporting Period

Annual Polluta	ant Loading: Flagsta	ff MS4- Event Mean Cond	centration		1
	Unit Conversion	Runnoff or R value			
Pollutant	Factor	(inches)	EMC (mg/L)	Area (acres)	Pollutant (lbs)
BOD	0.226	0	NS	20.00	0.00
COD	0.226	0	NS	20.00	0.00
TSS	0.226	0	NS	20.00	0.00
TDS	0.226	0	NS	20.00	0.00
Total Nitrogen	0.226	0	NS	20.00	0.00
TKN	0.226	0	NS	20.00	0.00
Total Phosphorous	0.226	0	NS	20.00	0.00
Metals - varies	0.226	0	NS	20.00	0.00
Drainage Area (acres)	20				
Winter Runoff	0				
Winter Rainfall	0				
Percent of Rainfall Runoff	0.9	Note: Event Mean Concer	ntration (EMC) is th	e pollutant concentrat	tion of flow-
Percent of Site Impervious	0.95	weighted sampling (multip	le aliquots) collecte	d during the course of	f a storm.
Runoff Factor	0.905	No flow weighted composi	ite samples collecte	d/analyed due to equi	ipment issues

NS = No Sample

Pollutant Loading Estimate ADOT Phoenix MS4 Monitoring Station 2012/2013 Reporting Period (partial)

Simple Method Bacteria Calculation: L=103*R*C*A

Pollutant Loading: Phoenix MS4-Winter Season - Sample Collected 12/14/12							
	Unit Conversion	Runnoff or R value	Concentration				
Pollutant	Factor	(inches)	(mg/L)	Area (acres)	Pollutant (lbs)		
Oil & Grease (grab)	0.226	0.62415	5	17.50	12.34		
TPH (grab)	0.226	0.62415	5	17.50	12.34		
E. Coli (grab)	103	0.62415	2400	17.50	2,700,072.90	Note - billion colonies	
BOD	0.226	0.62415	68	17.50	167.86		
COD	0.226	0.62415	420	17.50	1,036.78		
TSS	0.226	0.62415	53	17.50	130.83		
TDS	0.226	0.62415	310	17.50	765.24		
Total Nitrogen	0.226	0.62415	2.84	17.50	7.01		
TKN	0.226	0.62415	9.1	17.50	22.46		
Total Phosphorous	0.226	0.62415	0.92	17.50	2.27		
Metals - cadmium, copper, lead, zinc	0.226	0.62415	0.116	17.50	0.29		
-						_	
Drainage Area (acres)	17.5						
Winter Runoff	0.62415	Note: E. Coli pollutant loading result is in billion colonies					
Winter Rainfall	0.73	Simple Method Pollutant Calculation: L=0.226*R*C*A					
Percent of Rainfall Runoff	0.9	Simple Method Bacteria Cal	culation: L=103*R*C*	A			

Pollutant Loading Estimate ADOT Tucson MS4 Monitoring Station 2012/2013 Reporting Period (partial)

Pollutant Loading: Tucson MS4-Winter Season - Sample collected 12/13/12							
			Pollutant				
	Unit Conversion	Runnoff or R value	Concentration				
Pollutant	Factor	(inches)	(mg/L)	Area (acres)	Pollutant (lbs)		
Oil & Grease (grab)	0.226	0.31635	5	4.80	1.72		
TPH (grab)	0.226	0.31635	5	4.80	1.72		
E. Coli (grab)	103	0.31635	300	4.80	46,921.03		
BOD	0.226	0.31635	5.8	4.80	1.99		
COD	0.226	0.31635	95	4.80	32.60		
TSS	0.226	0.31635	69	4.80	23.68		
TDS	0.226	0.31635	66	4.80	22.65		
Total Nitrogen	0.226	0.31635	2.84	4.80	0.97		
TKN	0.226	0.31635	1.6	4.80	0.55		
Total Phosphorous	0.226	0.31635	0.18	4.80	0.06		
Metals - cadmmium, copper, lead, zinc	0.226	0.31635	0.226	4.80	0.08		

Note - billion colonies

Drainage Area (acres)	4.8
Winter Runoff	0.31635
Winter Rainfall	0.37
Percent of Rainfall Runoff	0.9
Percent of Site Impervious	0.95
Runoff Factor	0.905

Note: E. Coli pollutant loading result is in billion colonies
Simple Method Pollutant Calculation: L=0.226*R*C*A
Simple Method Bacteria Calculation: L=103*R*C*A

NS = No Sample; ND = Non Detect

Pollutant Loading Estimate ADOT Nogales MS4 Monitoring Station 2012/2013 Reporting Period (partial)

Pollutant Loadin	g: Nogales MS4-Win	ter Season - Sample Col	lected 12/14/12]	
			Pollutant			
	Unit Conversion	Runnoff or R value	Concentration			
Pollutant	Factor	(inches)	(mg/L)	Area (acres)	Pollutant (lbs)	
Oil & Grease (grab)	0.226	0.29925	10	59.50	40.24	
TPH (grab)	0.226	0.29925	5.7	59.50	22.94	
E. Coli (grab)	103	0.29925	9000	59.50	16,505,582.63	Note - billion colonies
BOD	0.226	0.29925	7.6	59.50	30.58	
COD	0.226	0.29925	47	59.50	189.13	
TSS	0.226	0.29925	120	59.50	482.88	
TDS	0.226	0.29925	78	59.50	313.87	
Total Nitrogen	0.226	0.29925	2.97	59.50	11.95	
TKN	0.226	0.29925	1	59.50	4.02	
Total Phosphorous	0.226	0.29925	0.17	59.50	0.68	
Metals - cadmium, copper, lead, zinz	0.226	0.29925	0.128	59.50	0.52	
Drainage Area (acres)	59.5					
Winter Runoff	0.29925					
Winter Rainfall	0.35					
Percent of Rainfall Runoff	0.9	Note: E. Coli pollutant loa	ding result is in billio	n colonies		
Percent of Site Impervious	0.95	Simple Method Pollutant (Calculation: L=0.226	*R*C*A		
Runoff Factor	0.905	Simple Method Bacteria C	Calculation: L=103*R	*C*A		

Pollutant Loading Estimate ADOT Sedona MS4 Monitoring Station 2012/2013 Reporting Period (partial)

Pollutant Load	ding: Sedona MS4-V	Winter Season - Sampled	l 12/14/12			
	Unit Conversion	Runnoff or R value	Pollutant Concentration			
Pollutant	Factor	(inches)	(mg/L)	Area (acres)	Pollutant (lbs)	
Oil & Grease (grab)	0.226	0.19665	5.7	7.35	1.86	
TPH (grab)	0.226	0.19665	1	7.35	0.33	
E. Coli (grab)	103	0.19665	9000	7.35	1,339,864.94	Note - billion colonies
BOD	0.226	0.19665	7.6	7.35	2.48	
COD	0.226	0.19665	47	7.35	15.35	
TSS	0.226	0.19665	120	7.35	39.20	
TDS	0.226	0.19665	78	7.35	25.48	
Total Nitrogen	0.226	0.19665	0.46	7.35	0.15	
TKN	0.226	0.19665	1	7.35	0.33	
Total Phosphorous	0.226	0.19665	0.17	7.35	0.06	
Metals - cadmium, copper, lead, zinz	0.226	0.19665	0.128	7.35	0.04	
						_
Drainage Area (acres)	7.35					
Winter Runoff	0.19665					
Winter Rainfall	0.23					
Percent of Rainfall Runoff	0.9	Note: E. Coli pollutant loa	ding result is in billi	on colonies		
Percent of Site Impervious	0.95	Simple Method Pollutant (Calculation: L=0.22	6*R*C*A		
Runoff Factor	0.905	Simple Method Bacteria C	Calculation: L=103*	R*C*A		

NS = No Sample

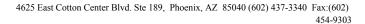
Miscellaneous Pollutant Loading Estimate ADOT Flagstaff MS4 Monitoring Station 2012/2013 Reporting Period (partial)

Pollutant Load	ding: Flagstaff MS4-	Winter Season - Sample	d 12/14/12				
			Pollutant				
	Unit Conversion	Runnoff or R value	Concentration				
Pollutant	Factor	(inches)	(mg/L)	Area (acres)	Pollutant (lbs)		
Oil & Grease (grab)	0.226	0.36765	5	20.00	8.31		
TPH (grab)	0.226	0.36765	5	20.00	8.31		
E. Coli (grab)	103	0.36765	2400	20.00	1,817,661.60	Note - billion colonies	
BOD	0.226	0.36765	68	20.00	113.00		
COD	0.226	0.36765	420	20.00	697.95		
TSS	0.226	0.36765	53	20.00	88.07		
TDS	0.226	0.36765	310	20.00	515.15		
Total Nitrogen	0.226	0.36765	2.84	20.00	4.72		
TKN	0.226	0.36765	9.1	20.00	15.12		
Total Phosphorous	0.226	0.36765	0.92	20.00	1.53		
Metals - cadmium, copper, lead, zinz	0.226	0.36765	0.3534	20.00	0.59		
						_	
Drainage Area (acres)	20						
Winter Runoff	0.36765						
Winter Rainfall	0.43						
Percent of Rainfall Runoff	0.9	Note: E. Coli pollutant loa	ding result is in billio	on colonies			
Percent of Site Impervious	0.95	Simple Method Pollutant Calculation: L=0.226*R*C*A					
Runoff Factor	0.905	Simple Method Bacteria C	Calculation: L=103*F	R*C*A			

NS = No Sample

Appendix E

Lab Reports





LABORATORY REPORT

Prepared For: Engineering and Environmental Consultants Phoenix Project: ADOT

7878 N. 16th Street, Suite 140

Phoenix, AZ 85020 Attention: John Burton

Sampled: 08/22/12 Received: 08/23/12 Issued: 08/31/12 18:09

NELAP #01109CA / AZ100001 Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY IDCLIENT IDMATRIXPVH1801-01Tucson Yard GWaterPVH1801-02Trip BlankWater

SAMPLE RECEIPT: Samples were received intact, at 0°C, on ice and with chain of custody documentation.

HOLDING TIMES: Not all holding times were met. Results were qualified where the sample analysis did not occur within

method specified holding time requirements.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

Reviewed By:

TestAmerica Phoenix

Kylie Emily Project Manager



4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Engineering and Environmental Consultants Phoenix Project ID: ADOT

7878 N. 16th Street, Suite 140

Phoenix, AZ 85020

Report Number: PVH1801

Sampled: 08/22/12

Received: 08/23/12

Attention: John Burton

HEXANE EXTRACTABLE MATERIAL BY EPA METHOD 1664A

			Reporting	Sample	Dilution	Date	Date	Data
Analyte	Method	Batch	Limit	Result	Factor	Extracted	Analyzed	Qualifiers
Sample ID: PVH1801-01 (Tucson Yard	d G - Water)							
Reporting Units: mg/l								
N-Hexane Extractable (HEM)	EPA 1664A	12H1371	5.0	11	1	8/30/2012	8/30/2012	
N-Hexane Extractable Silica Gel Treated	EPA 1664A SGT	12H1371	10	ND	1	8/30/2012	8/30/2012	
Reporting Units: mg/l N-Hexane Extractable (HEM)	EPA 1664A				1 1	0.00.00	0.00.00	



THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602)

Engineering and Environmental Consultants Phoenix Project ID: ADOT

7878 N. 16th Street, Suite 140

Phoenix, AZ 85020

Report Number: PVH1801

Sampled: 08/22/12

Received: 08/23/12

Attention: John Burton

PURGEABLES BY GC/MS (EPA 624)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVH1801-01 (Tucson Yard G - V	Vater)							
Reporting Units: ug/l								
Benzene	EPA 624	12H1185	2.0	ND	1	8/28/2012	8/28/2012	
Ethylbenzene	EPA 624	12H1185	2.0	ND	1	8/28/2012	8/28/2012	
Toluene	EPA 624	12H1185	2.0	ND	1	8/28/2012	8/28/2012	
Xylenes, Total	EPA 624	12H1185	2.0	ND	1	8/28/2012	8/28/2012	T2
Surrogate: Dibromofluoromethane (70-130%)				103 %				
Surrogate: Toluene-d8 (70-130%)				99 %				
Surrogate: 4-Bromofluorobenzene (70-130%)				94 %				
Sample ID: PVH1801-02 (Trip Blank - Water)							
Reporting Units: ug/l								
Benzene	EPA 624	12H1185	2.0	ND	1	8/28/2012	8/28/2012	
Ethylbenzene	EPA 624	12H1185	2.0	ND	1	8/28/2012	8/28/2012	
Toluene	EPA 624	12H1185	2.0	ND	1	8/28/2012	8/28/2012	
Xylenes, Total	EPA 624	12H1185	2.0	ND	1	8/28/2012	8/28/2012	T2
Surrogate: Dibromofluoromethane (70-130%)				100 %				
Surrogate: Toluene-d8 (70-130%)				102 %				
Surrogate: 4-Bromofluorobenzene (70-130%)				93 %				



THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Engineering and Environmental Consultants Phoenix Project ID: ADOT

7878 N. 16th Street, Suite 140

Phoenix, AZ 85020

Report Number: PVH1801

Sampled: 08/22/12

Received: 08/23/12

Attention: John Burton

INORGANICS	
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		11.0	110111 (100					
Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVH1801-01 (Tucson Yard of Reporting Units: mg/l Cyanide, Total	G - Water) SM 4500CN-E	12H1298	0.050	ND	1	8/29/2012	8/30/2012	
Sample ID: PVH1801-01 (Tucson Yard of Reporting Units: pH Units pH Temperature - °C	G - Water) SM 4500H+ SM 4500H+	12H1032 12H1032	1.68 NA	8.57 19.8	1 1	8/23/2012 8/23/2012	8/23/2012 8/23/2012	H5 H5



4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Engineering and Environmental Consultants Phoenix Project ID: ADOT

7878 N. 16th Street, Suite 140

Phoenix, AZ 85020

Report Number: PVH1801

Sampled: 08/22/12

Received: 08/23/12

Attention: John Burton

MICROBIOLOGICALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVH1801-01 (Tucson Yard C	G - Water)							
Reporting Units: MPN/100 ml								
E. Coli - MPN	SM 9221F	12H1103	2	300	1	8/23/2012	8/25/2012	Н3



4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602)

454-9303

Engineering and Environmental Consultants Phoenix Project ID: ADOT

7878 N. 16th Street, Suite 140
Phoenix, AZ 85020
Report Number: PVH1801
Sampled: 08/22/12
Received: 08/23/12

Attention: John Burton

SHORT HOLD TIME DETAIL REPORT

Sample ID: Tucson Yard G (PVH1801-01)	Hold Time (in days) - Water	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
SM 4500H+	1	08/22/2012 09:00	08/23/2012 10:30	08/23/2012 14:40	08/23/2012 21:24
SM 9221F	0	08/22/2012 09:00	08/23/2012 10:30	08/23/2012 15:30	08/25/2012 16:30



THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602)

Project ID: ADOT Engineering and Environmental Consultants Phoenix

7878 N. 16th Street, Suite 140

Sampled: 08/22/12 Phoenix, AZ 85020 Report Number: PVH1801 Received: 08/23/12

Attention: John Burton

METHOD BLANK/QC DATA

HEXANE EXTRACTABLE MATERIAL BY EPA METHOD 1664A

		Reporting		Spike	Source		%REC		RPD	Data
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifiers
Batch: 12H1371 Extracted: 08/30/12										
Blank Analyzed: 08/30/2012 (12H1371-	-BLK1)									
N-Hexane Extractable (HEM)	ND	5.0	mg/l							
N-Hexane Extractable Silica Gel Treated (SGT)	ND	10	mg/l							
LCS Analyzed: 08/30/2012 (12H1371-F	BS1)									
N-Hexane Extractable (HEM)	45.3	5.0	mg/l	40.0		113	78-114			
N-Hexane Extractable Silica Gel Treated (SGT)	22.2	10	mg/l	20.0		111	64-132			
LCS Dup Analyzed: 08/30/2012 (12H1)	371-BSD1)									
N-Hexane Extractable (HEM)	45.0	5.0	mg/l	40.0		112	78-114	0.8	18	
N-Hexane Extractable Silica Gel Treated (SGT)	20.1	10	mg/l	20.0		100	64-132	10	34	
Matrix Spike Analyzed: 08/30/2012 (12	H1371-MS1)				Source: F	VH1733-0	01			
N-Hexane Extractable (HEM)	47.9	5.0	mg/l	40.0	4.93	107	78-114			
N-Hexane Extractable Silica Gel Treated (SGT)	21.5	10	mg/l	20.0	ND	107	64-132			



THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602)

Project ID: ADOT Engineering and Environmental Consultants Phoenix

7878 N. 16th Street, Suite 140

Sampled: 08/22/12 Received: 08/23/12 Phoenix, AZ 85020 Report Number: PVH1801

Attention: John Burton

METHOD BLANK/QC DATA

PURGEABLES BY GC/MS (EPA 624)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC	RPD	RPD Limit	Data Qualifiers
Batch: 12H1185 Extracted: 08/28/12						,,,,,,,,				C
Batch. 12111103 Extracted. 00/20/12										
Blank Analyzed: 08/28/2012 (12H1185-	·BLK1)									
Benzene	ND	2.0	ug/l							
Ethylbenzene	ND	2.0	ug/l							
Toluene	ND	2.0	ug/l							
Xylenes, Total	ND	2.0	ug/l							T2
Surrogate: Dibromofluoromethane	24.9		ug/l	25.0		99	70-130			
Surrogate: Toluene-d8	24.8		ug/l	25.0		99	70-130			
Surrogate: 4-Bromofluorobenzene	23.4		ug/l	25.0		93	70-130			
LCS Analyzed: 08/28/2012 (12H1185-B	BS1)									
Benzene	25.2	2.0	ug/l	25.0		101	37-151			
Ethylbenzene	24.6	2.0	ug/l	25.0		98	37-162			
Toluene	26.5	2.0	ug/l	25.0		106	47-150			
Xylenes, Total	50.2	2.0	ug/l	50.0		100	70-130			<i>T2</i>
Surrogate: Dibromofluoromethane	25.8		ug/l	25.0		103	70-130			
Surrogate: Toluene-d8	25.2		ug/l	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	24.1		ug/l	25.0		96	70-130			
LCS Dup Analyzed: 08/28/2012 (12H1)	185-BSD1)									
Benzene	25.0	2.0	ug/l	25.0		100	37-151	0.8	20	
Ethylbenzene	23.4	2.0	ug/l	25.0		93	37-162	5	20	
Toluene	26.2	2.0	ug/l	25.0		105	47-150	1	20	
Xylenes, Total	48.4	2.0	ug/l	50.0		97	70-130	4	20	<i>T2</i>
Surrogate: Dibromofluoromethane	25.6		ug/l	25.0		102	70-130			
Surrogate: Toluene-d8	25.2		ug/l	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	23.6		ug/l	25.0		94	70-130			
Matrix Spike Analyzed: 08/28/2012 (12	H1185-MS1)				Source: P	VH2005-	01			
Benzene	23.7	2.0	ug/l	25.0	ND	95	37-151			
Ethylbenzene	22.8	2.0	ug/l	25.0	ND	91	37-162			
Toluene	24.7	2.0	ug/l	25.0	ND	99	47-150			
Xylenes, Total	47.2	2.0	ug/l	50.0	ND	94	68-131			<i>T2</i>
Surrogate: Dibromofluoromethane	24.4		ug/l	25.0		98	70-130			
Surrogate: Toluene-d8	25.0		ug/l	25.0		100	70-130			
Surrogate: 4-Bromofluorobenzene	23.3		ug/l	25.0		93	70-130			

TestAmerica Phoenix

Kylie Emily Project Manager



4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602)

Engineering and Environmental Consultants Phoenix

Project ID: ADOT

7878 N. 16th Street, Suite 140

Sampled: 08/22/12 Received: 08/23/12 Phoenix, AZ 85020 Report Number: PVH1801

Attention: John Burton

METHOD BLANK/QC DATA

PURGEABLES BY GC/MS (EPA 624)

		Reporting		Spike	Source		%REC		RPD	Data
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifiers
Batch: 12H1185 Extracted: 08/28/12										
Matrix Spike Dup Analyzed: 08/28/20	12 (12H1185-M	ISD1)			Source: P	VH2005-0)1			
Benzene	24.4	2.0	ug/l	25.0	ND	98	37-151	3	20	
Ethylbenzene	23.6	2.0	ug/l	25.0	ND	94	37-162	3	20	
Toluene	25.6	2.0	ug/l	25.0	ND	102	47-150	3	20	
Xylenes, Total	48.1	2.0	ug/l	50.0	ND	96	68-131	2	31	T2
Surrogate: Dibromofluoromethane	25.6		ug/l	25.0		102	70-130			
Surrogate: Toluene-d8	25.2		ug/l	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	23.4		ug/l	25.0		94	70-130			



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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602)

Sampled: 08/22/12

Engineering and Environmental Consultants Phoenix

Project ID: ADOT

7878 N. 16th Street, Suite 140

Phoenix, AZ 85020 Report Number: PVH1801 Received: 08/23/12

Attention: John Burton

METHOD BLANK/QC DATA

INORGANICS

A 1.	B 1/	Reporting	T T *4	Spike	Source	0/DEC	%REC	DDD	RPD	Data
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifiers
Batch: 12H1032 Extracted: 08/23/12										
Duplicate Analyzed: 08/23/2012 (12H10)32-DUP1)				Source: F	VH1784-0	01			
рН	8.16	1.68	pH Units		8.16			0	10	H5
Duplicate Analyzed: 08/23/2012 (12H10)32-DUP2)				Source: F	VH1816-0	02			
рН	7.38	1.68	pH Units		7.40			0.3	10	H5
Reference Analyzed: 08/23/2012 (12H10	032-SRM1)									
рН	7.00	1.68	pH Units	7.00		100	99-101			
Reference Analyzed: 08/23/2012 (12H10	032-SRM2)									
рН	7.00	1.68	pH Units	7.00		100	99-101			
Batch: 12H1298 Extracted: 08/29/12										
Blank Analyzed: 08/30/2012 (12H1298-	BLK1)									
Cyanide, Total	ND	0.050	mg/l							
LCS Analyzed: 08/30/2012 (12H1298-B	SS1)									
Cyanide, Total	0.0990	0.050	mg/l	0.100		99	90-110			
LCS Dup Analyzed: 08/30/2012 (12H12	298-BSD1)									
Cyanide, Total	0.103	0.050	mg/l	0.100		103	90-110	4	20	
Matrix Spike Analyzed: 08/30/2012 (12	H1298-MS1)				Source: F	VH1683-0	01			
Cyanide, Total	0.105	0.050	mg/l	0.100	ND	105	80-120			
Matrix Spike Dup Analyzed: 08/30/201	2 (12H1298-N	ASD1)			Source: P	VH1683-0	01			
Cyanide, Total	0.112	0.050	mg/l	0.100	ND	112	80-120	7	20	

TestAmerica Phoenix



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Engineering and Environmental Consultants Phoenix Project ID: ADOT

7878 N. 16th Street, Suite 140

Phoenix, AZ 85020

Report Number: PVH1801

Sampled: 08/22/12

Received: 08/23/12

Attention: John Burton

DATA QUALIFIERS AND DEFINITIONS

H3 Sample was received and analyzed past holding time.

H5 Field parameter with a holding time of 15 mintues.

T2 Cited ADHS licensed method does not contain this analyte as part of method compound list.

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.

RPD Relative Percent Difference



4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602)

Sampled: 08/22/12

Engineering and Environmental Consultants Phoenix Project ID: ADOT

7878 N. 16th Street, Suite 140

Phoenix, AZ 85020 Report Number: PVH1801 Received: 08/23/12

Attention: John Burton

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 1664A SGT	Water		X
EPA 1664A	Water		X
EPA 624	Water	X	X
SM 4500CN-E	Water		X
SM 4500H+	Water		X
SM 9221F	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica

TAL-0013-550 (10/10) THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY FORM

[] Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303 [] Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803 [] Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

Relinquished By:		Remaushed By	The state of	Relinquished By:								TUCSON YARAG WU	Sample Description Sample Matrix	Sampler: Ton Loss	Project Manager: Tohat Burtost	Phocaix, 42 85020	2878 X 14\$ ST Saite 140	Client Name / Address:
Date / Time:	-	Date/Time;	100/14	Date / Time:									Container Type				9	
	2 Kin		124									9 8/22/12	# of Sampling Cont. Date	Fax Number:	hone Number		ROOT	Project/PO Number:
Beceived in Lab By	2	Received By:	1 / A decision of the second	Received By:	A CONTRACTOR OF THE CONTRACTOR							2 0500	ng Sampling Preservatives	602 - 248-7851	Phone Number: 602. み 48-770 よ		`	Imber:
And the second s		Carried Comments	V V									7	'es BO	TE	X			
Date/Time;		Date/fime:		Date / Time:								7	OTEI	PH	X - 6/			
10:30		en e	7 12:15									PY179						Analys
Sample Integ	48 hours	24 hours	same day	Turnaround 1						-		801-0						Analysis Required
Sample Integrity: (Check) intactc				Turnaround Time: (Check)														
on ice	normal	5 days	72 hours	k)									Special Instructions					

Note: By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.



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John Burton Engineering & Env. Consultants, INC. -AZ 7878 N. 16th Street, Suite 140 Phoenix, AZ 85020

Report Summary

Monday December 24, 2012

Report Number: L611716 Samples Received: 12/15/12 Client Project: 308032.19

Description: ADOT Stormwater - Superior Yard

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

red Willis , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197, FL - E87487, GA - 923, IN - C-IN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704/BIO041, ND - R-140. NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1, TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences. Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

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in laboratory standard operating procedures: 060302, 060303, and 060304.



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REPORT OF ANALYSIS

John Burton Engineering & Env. Consultants, INC

7878 N. 16th Street, Suite 140

Phoenix, AZ 85020

ESC Sample # : L611716-01

December 24, 2012

Date Received : December 15, 2012

Description : ADOT Stormwater - Superior Yard

Site ID : SUP. YARD Sample ID : SUPY121412 Project #: 308032.19

Collected By : RS

Collection Date : 12/14/12 09:35

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Hardness, Total (mg/L as CaCO3)	52.	30.	mg/l	130.1	12/19/12	1
Dissolved Solids	78.	10.	mg/l	2540C	12/24/12	1
Suspended Solids	84.	1.0	mg/l	2540D	12/21/12	1
TPH - Oil & Grease	BDL	11.	mg/l	1664A	12/21/12	1
Copper	0.17	0.020	mg/l	200.7	12/22/12	1

BDL - Below Detection Limit Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted. This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 12/24/12 12:47 Printed: 12/24/12 12:47

Attachment A List of Analytes with QC Qualifiers

	mple mber	Work Group	Sample Type	Analyte	Run ID	Qualifier
 L6	11716-01	WG629417	SAMP	TPH - Oil & Grease	R2490321	

Attachment B Explanation of QC Qualifier Codes

Qualifier	Meaning
L3	(ESC) Sample reanalysis and/or spiking could not be performed due to lack of additional volume.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

- Accuracy The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision The agreement between a set of samples or between duplicate samples.

 Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed 12/24/12 at 12:47:54

TSR Signing Reports: 288 R5 - Desired TAT

Baker Exxon Proj 105022.01 Ken & Mel's Proj 105022.02 MCAA Proj 305007.05 -ALL require TO-15+GRO on ALL AIR SAMPLES ENGENVPAZ-122012S NO CHARGE TBs

Sample: L611716-01 Account: ENGENVPAZ Received: 12/15/12 10:00 Due Date: 12/21/12 00:00 RPT Date: 12/24/12 12:47



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Phoenix, AZ 85020

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Quality Assurance Report Level II

L611716

December 24, 2012

		Labor	atory Blank					
Analyte	Result	Unit	_	ec	Limit		Batch Da	ate Analyzed
Hardness, Total (mg/L as CaCO3)	< 30	mg/l					WG628801 12	2/19/12 15:27
Suspended Solids	< 1	mg/l					WG628812 12	2/21/12 09:10
TPH - Oil & Grease	< 5	mg/l					WG629417 12	2/21/12 16:47
Copper	< .02	mg/l					WG629335 12	2/22/12 00:04
Dissolved Solids	< 10	mg/l					WG629022 12	2/24/12 11:16
_			ouplicate					_
Analyte	Units	Result	Duplicate	RPD	Limit		Ref Samp	Batch
Hardness, Total (mg/L as CaCO3)	mg/l	180.	180.	0	20		L610967-03	WG628801
Hardness, Total (mg/L as CaCO3)	mg/l	63.0	60.0	4.88	20		L610756-01	WG628801
Suspended Solids	mg/l	52.0	53.0	1.90	5		L611431-01	WG628812
Copper	mg/l	0	0.00210	NA	20		L611556-0	WG629335
Dissolved Solids	mg/l	330.	338.	3.61	5		L611707-0	WG629022
		Laborator	y Control Sa	mple				
Analyte	Units	Known Va		esult	% Rec		Limit	Batch
Hardness, Total (mg/L as CaCO3)	mg/l	200	190		95.0		85-115	WG628801
Suspended Solids	mg/l	773	768		99.4		85-115	WG628812
TPH - Oil & Grease	mg/l	20	19.	3	96.5		78-114	WG629417
Copper	mg/l	1	0.9	84	98.4		85-115	WG629335
Dissolved Solids	mg/l	8800	867	0	98.5		85-115	WG629022
	Li	aboratory Con	trol Sample	Duplicate				
Analyte	Units 1			_	Limit	RPD	Limit	Batch
Hardness, Total (mg/L as CaCO3)	mg/l	186. 19	0. 93.	0	85-115	2.13	20	WG628801
Suspended Solids	mg/l	768. 76	8. 99.	0	85-115	0	5	WG628812
TPH - Oil & Grease	mg/l	20.5 19	.3 102		78-114	6.03	18	WG629417
Dissolved Solids * Performance of this Analyte i	٥,		70 98.	0	85-115	1.07	5	WG629022

^{*} Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



Engineering & Env. Consultants, INC. -AZ John Burton 7878 N. 16th Street, Suite 140 $\,$

Phoenix, AZ 85020

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Quality Assurance Report Level II

L611716

December 24, 2012

Analyte	Units	MS Res	Matrix S Ref Re	_	% Rec	Limit		Ref Samp	Batch
Hardness, Total (mg/L as CaCO3)	mg/l	290.	200.	150	60.0*	80-120)	L611257-07	WG628801
Copper	mg/l	0.968	0.0021	.0 1	96.6	75-125	5	L611556-01	WG629335
Analyte	Units	Mat MSD	rix Spike Ref	Duplicate %Rec	Limit	RPD	T.imit	Ref Samp	Batch
Hardness, Total (mg/L as CaCO3)	mg/1	292.	-	61.3*	80-120	0.687	20	L611257-07	WG628801
Copper	mg/l	0.998	0.968	99.6	75-125	3.05	20	L611556-01	WG629335

Batch number /Run number / Sample number cross reference

WG628801: R2485599: L611716-01 WG628812: R2488918: L611716-01 WG629417: R2490321: L611716-01 WG629335: R2490892: L611716-01 WG629022: R2491417: L611716-01

 $^{^{\}star}$ * Calculations are performed prior to rounding of reported values.

^{*} Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



Engineering & Env. Consultants, INC. -AZ John Burton 7878 N. 16th Street, Suite 140

Phoenix, AZ 85020

Quality Assurance Report Level II

L611716

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

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December 24, 2012

EEC			ition:				Ana	alysis/(Containe	er/Preservative		F057	Chain of Custody Page <u>1</u> of <u>1</u>	
7878 N. 16th St. #140 Phoenix, AZ 85020			Same					THE STREET WHEN THE PROPERTY OF THE STREET, THE STREET	Pop (sippidate duration of the first transfer of the first transfe				XE	SC
		Re	port to:	John E	Burton			et de la composition della com						anon Road
		Em	ail to:	jburton@ee	ecphx.com	1			and the same of th				w.c. Janec,	114 37 127
Project Description: ADOT Stormwat	ter - Superior	· Yard	City/Sate Collected	Supe	rior, AZ				~				Phone: (800)) 767-5859 5) 758-5858
Phone: 602-248-7702 FAX: 602-248-7851	Client Project	#: 032. 1 9	ESC Ke	ESC Key:				To be a second s	V	~ >	1			5) 758-5859
Collected by: RS	Site/Facility ID	#: Sup.Yard	P.O.#:						lnes			-		
Collected by (signature): Rick Salcido	Sa	ab MUST Be ame Day ext Day wo Day	200% 100%	Email? <u>√</u>	ate Results Needed: Email? ✓ No_Yes EAX? _No_Yes				Copper/Hardness	ТРНОGНЕХ			CoCode Template/Prelogin	(lab use only)
Immediately Packed on Ice N Y X				FAX ?!	NoYes	Cntrs		တွ	Total C	9	10 10 10 10 10 10 10 10 10 10 10 10 10 1	L	Shipped Via:	
Sample ID	Comp/Grab	Matrix*	Depth	Date	Time		Ë	TSS	 	臣			Remarks/Contaminant	Sample # (lab only)
SUPY121412	Grab	Other	-	12/14/12	0935	4	X	X	X	X				L611716-01
*Matrix: SS - SoiVSolid GW - Grou	ndwater WW -	WasteWater	DW - Drin	king Water O	T - Other_				-t		P	Н _	Ter	np
Remarks: Run as sumy au	wilyses with	n awikble	sample			¥c	A A (/-	d C	د / ۲	4	F	low	Oth	er
Relinquished by: (Signature)	Date: /2//4	Tíme:	Receiv	/ed by: (Signal	ture)				Sam	ples ret	urned via: vp		Condition:	(lab use only)
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Relinquished by: (Signature)	Date:	Time:	Recei	ived for lab by	/: (Signature	*)	<u></u>		Dat		Time:		pH Checked:	NCF:

Company Name/Address		Alternate Billing					Analy	sis/C	ontain	er/Pre	servative		_	Chain of Custody Page1_of1_	
${ m EEC}$ 7878 N. 16th St., Suite 140														Prepared by:	F057
PHOENIX, AZ 8502	el faro		Report to: E-mail to:		State Collected:		S		3)	C> 80				SCIEN 12065 Leban Mt. Juliet TN Phone (615)7	37122 758-5858
PHONE:602-248-7702 FAX: 602-248-7851	Client Project N	NO.		Lab Project#) Pres	es	HCL	HN03	I.			Phone (800) . FAX (615	
Collected by:	Site/Facility ID#	‡		P.O.#			S N	No Pres	Clear	HDPE	0.			CoCode	(lab use only)
Collected by(signature):		WO Day	100%	Date Resul Email? FAX?N	No_X_Yes	No of	25oml HDPE	1L HDPE	TPHOGHEX 1L	Cu 500ml	Hardness <く			ENGENVPAZ Template/Prelogin Shipped Via:	
Sample ID	Comp/Grab	Matrix	Depth	Date	Time	Cntrs	TDS	TSS	НДТ	Total	Harc			Remarks/contaminant	Sample # (lab only)
						4									L611716-01
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Matrix: SS-Soil/Solid GW-Groundw	ater WW-Wa	stewater [W-Drinking V	Vater OT-C	ther							pH _wol7	<u> </u>	Temp Other	
Relinquisher by:(Signature	Date:	Time:	Received by:(S	Signature)	France La		Sampl	les retu	rned via	a: FedE	x_UP	SOther_		Condition	(lab use only)
Relinquisher by:(Signature	12-14-12 Date	7.14 Time:	Received by: (Signature)			Temp	: -	0.		Bottle	Received:			COUSI
	1	I	1		. 3/		1	5. 1			I	L			



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John Burton Engineering & Env. Consultants, INC. -AZ 7878 N. 16th Street, Suite 140 Phoenix, AZ 85020

Report Summary

Monday December 24, 2012

Report Number: L611713 Samples Received: 12/15/12 Client Project: 308032.19

Description: ADOT Stormwater - Superior Fuel

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

red Willis , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197, FL - E87487, GA - 923, IN - C-IN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704/BIO041, ND - R-140. NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1, TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

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REPORT OF ANALYSIS

December 24, 2012

John Burton Engineering & Env. Consultants, INC 7878 N. 16th Street, Suite 140

Phoenix, AZ 85020

ESC Sample # : L611713-01

Date Received : December 15, 2012

Description : ADOT Stormwater - Superior Fuel

Site ID : SUP. FUEL Sample ID : SUPF121412 Project #: 308032.19

Collected By : RS

Collection Date : 12/14/12 10:15

Parameter	Result	Det. Limit	Units	Method	Date	Dil.	
Hardness, Total (mg/L as CaCO3)	160	30.	mg/l	130.1	12/19/12	1	
Dissolved Solids	380	10.	mg/l	2540C	12/24/12	1	
Suspended Solids	150	1.0	mg/l	2540D	12/21/12	1	
TPH - Oil & Grease	BDL	6.7	mg/l	1664A	12/21/12	1	
Copper	0.18	0.020	mg/l	200.7	12/22/12	1	

BDL - Below Detection Limit Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted. This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 12/24/12 12:47 Printed: 12/24/12 12:47

Attachment A List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L611713-01	 WG629417	SAMP	TPH - Oil & Grease	R2490321	

Attachment B Explanation of QC Qualifier Codes

Qualifier	Meaning								
L3	(ESC) Sample reanalysis and/or spiking could not be performed due to lack of additional volume.								

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

- Accuracy The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision The agreement between a set of samples or between duplicate samples.

 Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed 12/24/12 at 12:47:58

TSR Signing Reports: 288 R5 - Desired TAT

Baker Exxon Proj 105022.01 Ken & Mel's Proj 105022.02 MCAA Proj 305007.05 -ALL require TO-15+GRO on ALL AIR SAMPLES ENGENVPAZ-122012S NO CHARGE TBs

Sample: L611713-01 Account: ENGENVPAZ Received: 12/15/12 10:00 Due Date: 12/21/12 00:00 RPT Date: 12/24/12 12:47



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Phoenix, AZ 85020

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Quality Assurance Report Level II

L611713

December 24, 2012

		La	boratory	Blank						
Analyte	Result	U	nits	% Re	С	Limit		Batch	Date	Analyzed
Hardness, Total (mg/L as CaCO3)	< 30	m	g/l					WG628801	12/19	9/12 15:27
Suspended Solids	< 1	m	g/l					WG628812	12/21	L/12 09:10
TPH - Oil & Grease	< 5	m	g/l					WG629417	12/21	L/12 16:47
Copper	< .02	m	g/l					WG629335	12/22	2/12 00:04
Dissolved Solids	< 10	m	g/l					WG629022	12/24	<u>1/12</u> 11:16
			Duplica	ate						
Analyte	Units	Result	Dup.	licate	RPD	Limit		Ref Sam	p	Batch
Hardness, Total (mg/L as CaCO3)	mg/l	180.	180		0	20		L610967	-01	WG628801
Hardness, Total (mg/L as CaCO3)	mg/l	63.0	60.0		4.88	20		L610756		WG628801
, (g, <u>-</u> ,	5, =									
Suspended Solids	mg/l	52.0	53.0)	1.90	5		L611431	-01	WG628812
Copper	mg/l	0	0.00	0210	NA	20		L611556	-01	WG629335
Dissolved Solids	mg/l	330.	338		3.61	5		L611707	-05	WG629022
		Labora	tory Cont	rol Sam	nle					
Analyte	Units	Known			sult	% Rec		Limit		Batch
Hardness, Total (mg/L as CaCO3)	mg/l	200		190.		95.0		85-115		WG628801
Suspended Solids	mg/l	773		768.		99.4		85-115		WG628812
TPH - Oil & Grease	mg/l	20		19.3		96.5		78-114		WG629417
Copper	mg/l	1		0.98	4	98.4		85-115		WG629335
Dissolved Solids	mg/l	8800		8670		98.5		85-115		WG629022
		Laboratory	Control S	Sample D	uplicate					
Analyte	Units	Result	Ref	%Rec		Limit	RPD	Li	mit	Batch
Hardness, Total (mg/L as CaCO3)	mg/l	186.	190.	93.0		85-115	2.13	20		WG628801
Suspended Solids	mg/l	768.	768.	99.0		85-115	0	5		WG628812
TPH - Oil & Grease	mg/l	20.5	19.3	102.		78-114	6.03	18		WG629417
Dissolved Solids * Performance of this Analyte is	mg/l	8580	8670	98.0		85-115	1.07	5		WG629022

^{*} Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



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Matrix Spike Analyte Units MS Res Ref Res % Rec Limit Ref Samp Batch Hardness, Total (mg/L as CaCO3) mg/1290. 200. 150 60.0* 80-120 L611257-07 WG628801 0.00210 Copper mg/l 0.968 96.6 75-125 L611556-01 WG629335 Matrix Spike Duplicate Analyte Units MSD Ref Limit RPD Limit Ref Samp Batch %Rec Hardness, Total (mg/L as CaCO3) mg/l 290. 61.3* 80-120 0.687 20 L611257-07 WG628801 292. 0.998 0.968 75-125 Copper mq/199.6 3.05 2.0 L611556-01 WG629335

Quality Assurance Report

L611713

Batch number /Run number / Sample number cross reference

WG628801: R2485599: L611713-01 WG628812: R2488918: L611713-01 WG629417: R2490321: L611713-01 WG629335: R2490892: L611713-01 WG629022: R2491417: L611713-01

 $^{^{\}star}$ * Calculations are performed prior to rounding of reported values.

^{*} Performance of this Analyte is outside of established criteria. For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



Engineering & Env. Consultants, INC. -AZ John Burton 7878 N. 16th Street, Suite 140

Phoenix, AZ 85020

Quality Assurance Report Level II

L611713

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

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December 24, 2012

EEC		Bi	lling Informa	tion:				Ana	lysis/C	Container	Preserv	ative		Chain of Custody
7878 N. 16th St. Phoenix, AZ 850			Same					The second secon			The state of the s		ELA-B SIC	Page 1 of 1
		Rep	port to:	John B	urton									anon Road TN 37122
		Emi	ail to:	jburton@ee	cphx.com	1								
Project ADOT Stormwa	ter - Superio	r Fuel	City/Sate Collected	Supe	rior, AZ				~					0) 767-5859 5) 758-5858
Phone: 602-248-7702 FAX: 602-248-7851	Client Project 308	#: 032.19	ESC Key	72					\ \	2,5			1	5) 758-5859
Collected by: RS	Site/Facility II	o#: Sup.Fue	P.O.#:						lnes	٧				
Collected by (signature): Rick Solicido Immediately Packed on Ice N Y X	s	ab MUST Be ame Day lext Day	200% 100%	Date Resul	No_Yes	No.		managen company of the control of th	Copper/Hardness	трноснех			CoCode Template/Prelogin Shipped Via:	(lab use only)
Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	Cntrs	TDS	TSS	Total	운	4		Remarks/Contaminant	Sample # (lab only)
SUPF121412	Grab	Other	-	12/14/12	1015	4	X	Х	X	X				L611713-01
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e a a company de la company de														
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						<u> </u>								
*Matrix: SS - Soil/Solid GW - Grou	ındwater WW	- WasteWater	DW - Drin	king Water C	T - Other_							pН	Te	mp
Remarks: hun as many analy	e with a	vailable bav	u ₍)le		*	revis	sed	Co	< オ	ŕ		Flow	Ot	her
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Refinquished by: (Signature)	/ 2//4 Date			ved by: (Signa	ture)				 	np:		tles Receiv	ed: CoC Seals Intact:	✓ _Y NNA
Relinquished by: (Signature)	Date	Time:	Rece	ived for lab by	y: (Signatur	<u>e)</u>			Dai	te: 2/15/12		ne:	pH Checked:	NCF:

Company Name/Address			Alternate Bil	ling				Analy	sis/C	ontaine	er/Pre	servativ	re		Chain of Custody Page1_of1_
EEC 7878 N. 16th St., Suite 14 PHOENIX, AZ 8502															F058 ONMENTAL
·			Report to:						C	Ç				SCIEN 12065 Leban Mt. Juliet TN	
Project Description: Superior MA	INT YOU))	=	City	State Collected:	-			V	3 2				Phone (615)	758-5858
PHONE:602-248-7702	Client Project I	No.		Lab Project	‡		No Pres	တ္သ	무	HN03				Phone (800) . FAX (61)	
FAX: 602-248-7851 Collected by:	Site/Facility ID	#		P.O.#		II	1	No Pres	Clear	4DPE	~			CoCode	(lab use only)
Collected by(signature):		ab MUST be Next Day Two Day Three Day	100% 50%			No of	25oml HDPE	1L HDPE	TPHOGHEX 1L Clear	Total Cu 500ml HDPE	Hardness <<			ENGENVPAZ Template/Prelogin Shipped Via:	
Packed on Ice NY Sample ID	Comp/Grab	Τ .	Depth	Date	Time	Cntrs	TDS	TSS	TPH	Tota	Harc		-	Remarks/contaminant	Sample # (lab only)
Matrix: SS-Soil/Solid GW-Ground Remarks:	water WW-Wa	astewater [DW-Drinking \	Water OT-0	Other	1						Flo	pi-i	TempOther	
Relinquisher by:(Signature	Date:	Time.	Received by:(Signature)	144		Samp	oles retu	irned v	ia: FedE	x_ 1 -UF	PS_Oth		Condition	(lab use only) 7Z
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Relinquisher by:(Signature	Date:	Time:	Received for	lab by: (Signate	ure)	7	Date		ا سے	/_	Time:	100	0	pH Checked:	NCF:



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John Burton Engineering & Env. Consultants, INC. -AZ 7878 N. 16th Street, Suite 140 Phoenix, AZ 85020

Report Summary

Wednesday February 06, 2013

Report Number: L617505 Samples Received: 01/29/13 Client Project: 308032.20

Description: ADOT Stormwater - Sedona

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Daphne Richards , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197, FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704/BIO041, ND - R-140. NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1, TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

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REPORT OF ANALYSIS

John Burton Engineering & Env. Consultants, INC

7878 N. 16th Street, Suite 140

Phoenix, AZ 85020

February 06, 2013

ESC Sample # : L617505-01 Date Received : January 29, 2013

Description : ADOT Stormwater - Sedona

Site ID : SEDONA SAMPLER Sample ID SED012513-G Project #: 308032.20

Collected By : John Burton Collection Date : 01/28/13 08:47

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Coliform, fecal	<9		col/100ml	SM9222D	01/30/13	1
Cyanide	0.016	0.0050	mg/l	4500CN E-2011	02/01/13	1
Oil & Grease (Hexane Extr)	BDL	5.0	mg/l	1664A	02/04/13	1
E.Coli Coliform,Total	4.0 3500	4.0 4.0	MPN/100ml MPN/100ml	9223B-2004 9223B-2004	01/30/13 01/30/13	4 4
TPH (GC/FID) High Fraction	0.13	0.10	mg/l	3510C/DRO	02/01/13	1
Surrogate recovery(%) o-Terphenyl	90.6		% Rec.	3510C/DRO	02/01/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted. This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 02/06/13 13:46 Printed: 02/06/13 15:04



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REPORT OF ANALYSIS

February 06, 2013

John Burton Engineering & Env. Consultants, INC 7878 N. 16th Street, Suite 140 Phoenix, AZ 85020

ESC Sample # : L617505-02

Date Received : January 29, 2013
Description : ADOT Stormwater - Sedona

Site ID : SEDONA SAMPLER

Sample ID : SED012513-C

Project #: 308032.20

Collected By : John Burton
Collection Date : 01/28/13 09:45

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloride Sulfate	11. 8.0	1.0 5.0	mg/l mg/l	300.0	01/29/13 01/29/13	1 1
BOD	BDL	5.00	mg/l	5210 B-2011	02/03/13	1
Chlorine, residual	1.5	1.0	mg/l	4500Cl G-2011	01/31/13	10
COD	84.	10.	mg/l	410.4	01/31/13	1
Hardness, Total (mg/L as CaCO3)	190	30.	mg/l	130.1	02/05/13	1
MBAS	BDL	0.10	mg/l	5540 C-2011	01/30/13	1
Ammonia Nitrogen	0.85	0.10	mg/l	350.1	01/30/13	1
Nitrate-Nitrite	1.7	0.10	mg/l	353.2	02/02/13	1
Phosphate, Ortho	0.21	0.12	mg/l	4500P-E	01/30/13	5
Phosphorus, Total	5.7	0.20	mg/l	365.4	02/01/13	2
Specific Conductance	160		umhos/cm	120.1	02/05/13	1
Kjeldahl Nitrogen, TKN	2.5	0.10	mg/l	351.2	02/01/13	1
Turbidity	1100	0.10	NTU	2130 B-2011	01/31/13	1
Dissolved Solids	180	10.	mg/l	2540 C-2011	02/01/13	1
Suspended Solids	1200	1.0	mg/l	2540 D-2011	02/04/13	1
Mercury	0.00037	0.00020	mg/l	245.1	01/30/13	1
Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Copper Lead Nickel Selenium	BDL BDL 0.080 BDL BDL 53. BDL 0.046 0.83 BDL BDL BDL	0.020 0.020 0.0050 0.0050 0.0050 0.50 0.	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	200.7 200.7 200.7 200.7 200.7 200.7 200.7 200.7 200.7 200.7 200.7	01/29/13 01/29/13 01/29/13 01/29/13 01/29/13 01/29/13 01/29/13 01/29/13 01/29/13 01/29/13	1 1 1 1 1 1 1 1 1 1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)



John Burton

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REPORT OF ANALYSIS

February 06, 2013

Engineering & Env. Consultants, INC 7878 N. 16th Street, Suite 140 Phoenix, AZ 85020

ESC Sample # : L617505-02

Date Received : January 29, 2013
Description : ADOT Stormwater - Sedona

Site ID : SEDONA SAMPLER

Sample ID : SED012513-C

Project #: 308032.20

Collected By : John Burton
Collection Date : 01/28/13 09:45

Parameter	Result	Det. Limit	Units	Method	Date Dil.
Silver	BDL	0.010	mg/l	200.7	01/29/13 1
Sodium	3.5	0.50	mg/1	200.7	01/29/13 1
Zinc	0.36	0.030	mg/1	200.7	01/29/13 1
Benzene	BDL	0.00050	mg/l	602	01/30/13 1
Toluene	BDL	0.0050	mg/1	602	01/30/13 1
Ethylbenzene	BDL	0.00050	mg/1	602	01/30/13 1
Total Xylene	BDL	0.0015	mg/1	602	01/30/13 1
Surrogate Recovery(%)					
a,a,a-Trifluorotoluene(PID)	102.		% Rec.	602	01/30/13 1
Pesticides					
Aldrin	BDL	0.000050	mg/1	8081 A	02/01/13 1
Alpha BHC	BDL	0.000050	mg/1	8081 A	02/01/13 1
Beta BHC	BDL	0.000050	mg/1	8081 A	02/01/13 1
Delta BHC	BDL	0.000050	mg/1	8081 A	02/01/13 1
Gamma BHC	BDL	0.000050	mg/1	8081 A	02/01/13 1
Chlordane	BDL	0.00050	mg/l	8081 A	02/01/13 1
4,4-DDD	BDL	0.000050	mg/l	8081 A	02/01/13 1
4,4-DDE	BDL	0.000050	mg/l	8081 A	02/01/13 1
4,4-DDT	BDL	0.000050	mg/l	8081 A	02/01/13 1
Dieldrin	BDL	0.000050	mg/l	8081 A	02/01/13 1
Endosulfan I	BDL	0.000050	mg/l	8081 A	02/01/13 1
Endosulfan II	BDL	0.000050	mq/l	8081 A	02/01/13 1
Endosulfan sulfate	BDL	0.000050	mg/l	8081 A	02/01/13 1
Endrin	BDL	0.000050	mg/l	8081 A	02/01/13 1
Endrin aldehyde	BDL	0.000050	mg/l	8081 A	02/01/13 1
Endrin ketone	BDL	0.000050	mg/l	8081 A	02/01/13 1
Hexachlorobenzene	BDL	0.000050	mg/l	8081 A	02/01/13 1
Heptachlor	BDL	0.000050	mg/l	8081 A	02/01/13 1
Heptachlor epoxide	BDL	0.000050	mg/l	8081 A	02/01/13 1
Methoxychlor	BDL	0.000050	mg/l	8081 A	02/01/13 1
Toxaphene	BDL	0.00050	mg/1	8081 A	02/01/13 1
Pesticides Surrogates	222	0.00000	5/ =	0001 11	02,01,10 1
Decachlorobiphenyl	73.1		% Rec.	8081 A	02/01/13 1
Tetrachloro-m-xylene	63.1		% Rec.	8081 A	02/01/13 1
<u>-</u>	03.1		o nec.	0001 A	02/01/13
Base/Neutral Extractables					
Acenaphthene	BDL	0.0010	mg/1	8270 C	01/31/13 1
Acenaphthylene	BDL	0.0010	mg/1	8270 C	01/31/13 1
Anthracene	BDL	0.0010	mg/1	8270 C	01/31/13 1
Benzidine	BDL	0.010	mg/1	8270 C	01/31/13 1
Benzo(a)anthracene	BDL	0.0010	mg/l	8270 C	01/31/13 1
Benzo(b)fluoranthene	BDL	0.0010	mg/l	8270 C	01/31/13 1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)



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REPORT OF ANALYSIS

February 06, 2013

John Burton Engineering & Env. Consultants, INC 7878 N. 16th Street, Suite 140 Phoenix, AZ 85020

ESC Sample # : L617505-02

Site ID : SEDONA SAMPLER

Project # : 308032.20

Date Received : January 29, 2013
Description : ADOT Stormwater - Sedona

Sample ID : SED012513-C

Collected By : John Burton
Collection Date : 01/28/13 09:45

Benzo(k)fluoranthene	Parameter	Result	Det. Limit	Units	Method	Date Dil.
Benzo(a)pyrene	Benzo(k)fluoranthene	BDL	0.0010	mg/l	8270 C	01/31/13 1
Bis(2-chlorethoxy)methane	Benzo(g,h,i)perylene	BDL	0.0010	mg/l	8270 C	01/31/13 1
Bis(2-chloroethyl)ether	Benzo(a)pyrene	BDL	0.0010	mg/1	8270 C	01/31/13 1
Bis(2-chloroisopropy)]ether	Bis(2-chlorethoxy)methane	BDL	0.010	mg/1	8270 C	01/31/13 1
A-Bromophenyl-phenylether	Bis(2-chloroethyl)ether	BDL	0.010	mg/1	8270 C	01/31/13 1
2-Chloronaphthalene	Bis(2-chloroisopropyl)ether	BDL	0.010	mg/1	8270 C	01/31/13 1
4-Chlorophenyl-phenylether BDL 0.010 mg/1 8270 C 01/31/13 1	4-Bromophenyl-phenylether	BDL	0.010	mg/1	8270 C	01/31/13 1
Chrysene	2-Chloronaphthalene	BDL	0.0010	mg/1	8270 C	01/31/13 1
Dibenz(a,h)anthracene	4-Chlorophenyl-phenylether	BDL	0.010	mg/1	8270 C	01/31/13 1
3.3-Dichlorobenzidine	Chrysene	BDL	0.0010	mg/1	8270 C	01/31/13 1
2,4-Dinitrotoluene	Dibenz(a,h)anthracene	BDL	0.0010	mg/1	8270 C	01/31/13 1
2.6-Dinitrotoluene	3,3-Dichlorobenzidine	BDL	0.010	mg/1	8270 C	01/31/13 1
Fivoranthene	2,4-Dinitrotoluene	BDL	0.010	mg/1	8270 C	01/31/13 1
Fluorene	2,6-Dinitrotoluene	BDL	0.010	mg/1	8270 C	01/31/13 1
Hexachlorobenzene	Fluoranthene	BDL	0.0010	mg/l	8270 C	01/31/13 1
Hexachloro-1,3-butadiene	Fluorene	BDL	0.0010	mg/1	8270 C	01/31/13 1
Hexachlorocyclopentadiene	Hexachlorobenzene	BDL	0.0010	mg/l	8270 C	01/31/13 1
Hexachloroethane	Hexachloro-1,3-butadiene	BDL	0.010	mg/1	8270 C	01/31/13 1
Indeno(1,2,3-cd)pyrene	Hexachlorocyclopentadiene	BDL	0.010	mg/1	8270 C	01/31/13 1
Isophorone	Hexachloroethane	BDL	0.010	mg/1	8270 C	01/31/13 1
Isophorone	Indeno(1,2,3-cd)pyrene	BDL	0.0010	mg/1	8270 C	01/31/13 1
Nitrobenzene BDL 0.010 mg/l 8270 C 01/31/13 1 1 n-Nitrosodimethylamine BDL 0.010 mg/l 8270 C 01/31/13 1 1 n-Nitrosodiphenylamine BDL 0.010 mg/l 8270 C 01/31/13 1 1 n-Nitrosodiphenylamine BDL 0.010 mg/l 8270 C 01/31/13 1 1 phenanthrene BDL 0.0010 mg/l 8270 C 01/31/13 1 1 Phenanthrene BDL 0.0010 mg/l 8270 C 01/31/13 1 1 Benzylbutyl phthalate BDL 0.0030 mg/l 8270 C 01/31/13 1 1 Bis(2-ethylhexyl)phthalate BDL 0.0030 mg/l 8270 C 01/31/13 1 1 Bis(2-ethylhexyl)phthalate BDL 0.0030 mg/l 8270 C 01/31/13 1 1 Di-n-butyl phthalate BDL 0.0030 mg/l 8270 C 01/31/13 1 1 Dimethyl phthalate BDL 0.0030 m	Isophorone	BDL	0.010		8270 C	01/31/13 1
n-Nitrosodimethylamine BDL 0.010 mg/l 8270 C 01/31/13 1 1 n-Nitrosodiphenylamine BDL 0.010 mg/l 8270 C 01/31/13 1 1 n-Nitrosodi-n-propylamine BDL 0.010 mg/l 8270 C 01/31/13 1 1 Phenanthrene BDL 0.0010 mg/l 8270 C 01/31/13 1 1 Benzylbutyl phthalate BDL 0.0030 mg/l 8270 C 01/31/13 1 1 Bis(2-ethylhexyl)phthalate BDL 0.0030 mg/l 8270 C 01/31/13 1 1 Di-n-butyl phthalate BDL 0.0030 mg/l 8270 C 01/31/13 1 1 Diethyl phthalate BDL 0.0030 mg/l 8270 C 01/31/13 1 1 Dimethyl phthalate BDL 0.0030 mg/l 8270 C 01/31/13 1 1 Di-n-octyl phthalate BDL 0.0030 mg/l 8270 C 01/31/13 1 1 Pyrene BDL 0.0010 mg/l	Naphthalene	BDL	0.0010	mg/1	8270 C	01/31/13 1
n-Nitrosodiphenylamine BDL 0.010 mg/l 8270 C 01/31/13 1 1 n-Nitrosodi-n-propylamine BDL 0.010 mg/l 8270 C 01/31/13 1 1 Phenanthrene BDL 0.0010 mg/l 8270 C 01/31/13 1 1 Benzylbutyl phthalate BDL 0.0030 mg/l 8270 C 01/31/13 1 1 Bis(2-ethylhexyl)phthalate BDL 0.0030 mg/l 8270 C 01/31/13 1 1 Di-n-butyl phthalate BDL 0.0030 mg/l 8270 C 01/31/13 1 1 Diethyl phthalate BDL 0.0030 mg/l 8270 C 01/31/13 1 1 Di-n-octyl phthalate BDL 0.0030 mg/l 8270 C 01/31/13 1 1 Pyrene BDL 0.0030 mg/l 8270 C 01/31/13 1 1 Pyrene BDL 0.0010 mg/l 8270 C 01/31/13 1 1 Acid Extractables 4-Chloro-3-methylphenol BDL 0.0	Nitrobenzene	BDL	0.010	mg/1	8270 C	01/31/13 1
n-Nitrosodi-n-propylamine BDL 0.010 mg/l 8270 C 01/31/13 1 1 Phenanthrene BDL 0.0010 mg/l 8270 C 01/31/13 1 1 Benzylbutyl phthalate BDL 0.0030 mg/l 8270 C 01/31/13 1 1 Bis(2-ethylhexyl)phthalate BDL 0.0030 mg/l 8270 C 01/31/13 1 1 Di-n-butyl phthalate BDL 0.0030 mg/l 8270 C 01/31/13 1 1 Diethyl phthalate BDL 0.0030 mg/l 8270 C 01/31/13 1 1 Dimethyl phthalate BDL 0.0030 mg/l 8270 C 01/31/13 1 1 Di-n-octyl phthalate BDL 0.0030 mg/l 8270 C 01/31/13 1 1 Pyrene BDL 0.0010 mg/l 8270 C 01/31/13 1 1 1,2,4-Trichlorobenzene BDL 0.010 mg/l 8270 C 01/31/13 1 1 A-Chloro-3-methylphenol BDL 0.010 mg/	n-Nitrosodimethylamine	BDL	0.010	mg/1	8270 C	01/31/13 1
Phenanthrene BDL 0.0010 mg/l 8270 C 01/31/13 1 Benzylbutyl phthalate BDL 0.0030 mg/l 8270 C 01/31/13 1 Bis(2-ethylhexyl)phthalate BDL 0.0030 mg/l 8270 C 01/31/13 1 Di-n-butyl phthalate BDL 0.0030 mg/l 8270 C 01/31/13 1 Di-thyl phthalate BDL 0.0030 mg/l 8270 C 01/31/13 1 Diethyl phthalate BDL 0.0030 mg/l 8270 C 01/31/13 1 Dimethyl phthalate BDL 0.0030 mg/l 8270 C 01/31/13 1 Di-n-octyl phthalate BDL 0.0030 mg/l 8270 C 01/31/13 1 Di-n-octyl phthalate BDL 0.0030 mg/l 8270 C 01/31/13 1 Pyrene BDL 0.0010 mg/l 8270 C 01/31/13 1 Pyrene BDL 0.0010 mg/l 8270 C 01/31/13 1 Acid Extractables 4-Chloro-3-methylphenol BDL 0.010 mg/l 8270 C 01/31/13 1 2-Chlorophenol BDL 0.010 mg/l 8270 C 01/31/13 1 2,4-Dichlorophenol BDL 0.010 mg/l 8270 C 01/31/13 1 2,4-Dimethylphenol BDL 0.010 mg/l 8270 C 01/31/13 1 2,4-Dimethylphenol BDL 0.010 mg/l 8270 C 01/31/13 1 4,6-Dinitro-2-methylphenol BDL 0.010 mg/l 8270 C 01/31/13 1 2,4-Dinitrophenol BDL 0.010 mg/l 8270 C 01/31/13 1 2,4-Dinitrophenol BDL 0.010 mg/l 8270 C 01/31/13 1	n-Nitrosodiphenylamine	BDL	0.010	mg/1	8270 C	01/31/13 1
Benzylbutyl phthalate BDL 0.0030 mg/l 8270 C 01/31/13 1 Bis(2-ethylhexyl)phthalate BDL 0.0030 mg/l 8270 C 01/31/13 1 Di-n-butyl phthalate BDL 0.0030 mg/l 8270 C 01/31/13 1 Diethyl phthalate BDL 0.0030 mg/l 8270 C 01/31/13 1 Dimethyl phthalate BDL 0.0030 mg/l 8270 C 01/31/13 1 Di-n-octyl phthalate BDL 0.0030 mg/l 8270 C 01/31/13 1 Pyrene BDL 0.0010 mg/l 8270 C 01/31/13 1 Pyrene BDL 0.010 mg/l 8270 C 01/31/13 1 Acid Extractables 4-Chloro-3-methylphenol BDL 0.010 mg/l 8270 C 01/31/13 1 2-Chlorophenol BDL 0.010 mg/l 8270 C 01/31/13 1 2-4-Dichlorophenol BDL 0.010 mg/l 8270 C 01/31/13 1 2-4-Dimethylphenol BDL 0.010 mg/l <td>n-Nitrosodi-n-propylamine</td> <td>BDL</td> <td>0.010</td> <td>mg/l</td> <td>8270 C</td> <td></td>	n-Nitrosodi-n-propylamine	BDL	0.010	mg/l	8270 C	
Bis(2-ethylhexyl)phthalate BDL 0.0030 mg/l 8270 C 01/31/13 l Di-n-butyl phthalate BDL 0.0030 mg/l 8270 C 01/31/13 l Diethyl phthalate BDL 0.0030 mg/l 8270 C 01/31/13 l Dimethyl phthalate BDL 0.0030 mg/l 8270 C 01/31/13 l Di-n-octyl phthalate BDL 0.0030 mg/l 8270 C 01/31/13 l Pyrene BDL 0.0010 mg/l 8270 C 01/31/13 l 1,2,4-Trichlorobenzene BDL 0.010 mg/l 8270 C 01/31/13 l Acid Extractables 4-Chloro-3-methylphenol BDL 0.010 mg/l 8270 C 01/31/13 l 2-Chlorophenol BDL 0.010 mg/l 8270 C 01/31/13 l 2,4-Dichlorophenol BDL 0.010 mg/l 8270 C 01/31/13 l 2,4-Dimethylphenol BDL 0.010 mg/l 8270 C 01/31/13 l 4,6-Dinitro-2-methylphenol BDL 0.010	Phenanthrene	BDL	0.0010	mg/1	8270 C	01/31/13 1
Bis(2-ethylhexyl)phthalate BDL 0.0030 mg/l 8270 C 01/31/13 l Di-n-butyl phthalate BDL 0.0030 mg/l 8270 C 01/31/13 l Diethyl phthalate BDL 0.0030 mg/l 8270 C 01/31/13 l Dimethyl phthalate BDL 0.0030 mg/l 8270 C 01/31/13 l Di-n-octyl phthalate BDL 0.0030 mg/l 8270 C 01/31/13 l Pyrene BDL 0.0010 mg/l 8270 C 01/31/13 l 1,2,4-Trichlorobenzene BDL 0.010 mg/l 8270 C 01/31/13 l Acid Extractables 4-Chloro-3-methylphenol BDL 0.010 mg/l 8270 C 01/31/13 l 2-Chlorophenol BDL 0.010 mg/l 8270 C 01/31/13 l 2,4-Dichlorophenol BDL 0.010 mg/l 8270 C 01/31/13 l 2,4-Dimethylphenol BDL 0.010 mg/l 8270 C 01/31/13 l 4,6-Dinitro-2-methylphenol BDL 0.010	Benzylbutyl phthalate	BDL	0.0030	mg/1	8270 C	01/31/13 1
Diethyl phthalate BDL 0.0030 mg/l 8270 C 01/31/13 l Dimethyl phthalate BDL 0.0030 mg/l 8270 C 01/31/13 l Di-n-octyl phthalate BDL 0.0030 mg/l 8270 C 01/31/13 l Pyrene BDL 0.0010 mg/l 8270 C 01/31/13 l 1,2,4-Trichlorobenzene BDL 0.010 mg/l 8270 C 01/31/13 l Acid Extractables 4-Chloro-3-methylphenol BDL 0.010 mg/l 8270 C 01/31/13 l 2-Chlorophenol BDL 0.010 mg/l 8270 C 01/31/13 l 2,4-Dichlorophenol BDL 0.010 mg/l 8270 C 01/31/13 l 2,4-Dimethylphenol BDL 0.010 mg/l 8270 C 01/31/13 l 4,6-Dinitro-2-methylphenol BDL 0.010 mg/l 8270 C 01/31/13 l 2,4-Dinitrophenol BDL 0.010 mg/l 8270 C 01/31/13 l	Bis(2-ethylhexyl)phthalate	BDL	0.0030	mg/1	8270 C	01/31/13 1
Dimethyl phthalate BDL 0.0030 mg/l 8270 C 01/31/13 l Di-n-octyl phthalate BDL 0.0030 mg/l 8270 C 01/31/13 l Pyrene BDL 0.0010 mg/l 8270 C 01/31/13 l 1,2,4-Trichlorobenzene BDL 0.010 mg/l 8270 C 01/31/13 l Acid Extractables 4-Chloro-3-methylphenol BDL 0.010 mg/l 8270 C 01/31/13 l 2-Chlorophenol BDL 0.010 mg/l 8270 C 01/31/13 l 2,4-Dichlorophenol BDL 0.010 mg/l 8270 C 01/31/13 l 2,4-Dimethylphenol BDL 0.010 mg/l 8270 C 01/31/13 l 4,6-Dinitro-2-methylphenol BDL 0.010 mg/l 8270 C 01/31/13 l 2,4-Dinitrophenol BDL 0.010 mg/l 8270 C 01/31/13 l	Di-n-butyl phthalate	BDL	0.0030	mg/1	8270 C	01/31/13 1
Di-n-octyl phthalate BDL 0.0030 mg/l 8270 C 01/31/13 l Pyrene BDL 0.0010 mg/l 8270 C 01/31/13 l 1,2,4-Trichlorobenzene BDL 0.010 mg/l 8270 C 01/31/13 l Acid Extractables 4-Chloro-3-methylphenol BDL 0.010 mg/l 8270 C 01/31/13 l 2-Chlorophenol BDL 0.010 mg/l 8270 C 01/31/13 l 2,4-Dichlorophenol BDL 0.010 mg/l 8270 C 01/31/13 l 2,4-Dimethylphenol BDL 0.010 mg/l 8270 C 01/31/13 l 4,6-Dinitro-2-methylphenol BDL 0.010 mg/l 8270 C 01/31/13 l 2,4-Dinitrophenol BDL 0.010 mg/l 8270 C 01/31/13 l	Diethyl phthalate	BDL	0.0030	mg/1	8270 C	
Pyrene BDL 0.0010 mg/l 8270 C 01/31/13 1 1,2,4-Trichlorobenzene BDL 0.010 mg/l 8270 C 01/31/13 1 Acid Extractables 4-Chloro-3-methylphenol BDL 0.010 mg/l 8270 C 01/31/13 1 2-Chlorophenol BDL 0.010 mg/l 8270 C 01/31/13 1 2,4-Dichlorophenol BDL 0.010 mg/l 8270 C 01/31/13 1 2,4-Dimethylphenol BDL 0.010 mg/l 8270 C 01/31/13 1 4,6-Dinitro-2-methylphenol BDL 0.010 mg/l 8270 C 01/31/13 1 2,4-Dinitrophenol BDL 0.010 mg/l 8270 C 01/31/13 1	Dimethyl phthalate	BDL	0.0030	mg/1	8270 C	01/31/13 1
1,2,4-Trichlorobenzene BDL 0.010 mg/l 8270 C 01/31/13 1 Acid Extractables 4-Chloro-3-methylphenol BDL 0.010 mg/l 8270 C 01/31/13 1 2-Chlorophenol BDL 0.010 mg/l 8270 C 01/31/13 1 2,4-Dichlorophenol BDL 0.010 mg/l 8270 C 01/31/13 1 2,4-Dimethylphenol BDL 0.010 mg/l 8270 C 01/31/13 1 4,6-Dinitro-2-methylphenol BDL 0.010 mg/l 8270 C 01/31/13 1 2,4-Dinitrophenol BDL 0.010 mg/l 8270 C 01/31/13 1	Di-n-octyl phthalate	BDL	0.0030	mg/1	8270 C	01/31/13 1
Acid Extractables 4-Chloro-3-methylphenol BDL 0.010 mg/l 8270 C 01/31/13 1 2-Chlorophenol BDL 0.010 mg/l 8270 C 01/31/13 1 2,4-Dichlorophenol BDL 0.010 mg/l 8270 C 01/31/13 1 2,4-Dimethylphenol BDL 0.010 mg/l 8270 C 01/31/13 1 4,6-Dinitro-2-methylphenol BDL 0.010 mg/l 8270 C 01/31/13 1 2,4-Dinitrophenol BDL 0.010 mg/l 8270 C 01/31/13 1 2,4-Dinitrophenol BDL 0.010 mg/l 8270 C 01/31/13 1	Pyrene	BDL	0.0010	mg/1	8270 C	01/31/13 1
4-Chloro-3-methylphenol BDL 0.010 mg/l 8270 C 01/31/13 l 2-Chlorophenol BDL 0.010 mg/l 8270 C 01/31/13 l 2,4-Dichlorophenol BDL 0.010 mg/l 8270 C 01/31/13 l 2,4-Dimethylphenol BDL 0.010 mg/l 8270 C 01/31/13 l 4,6-Dinitro-2-methylphenol BDL 0.010 mg/l 8270 C 01/31/13 l 2,4-Dinitrophenol BDL 0.010 mg/l 8270 C 01/31/13 l	1,2,4-Trichlorobenzene	BDL	0.010	mg/1	8270 C	01/31/13 1
2-Chlorophenol BDL 0.010 mg/l 8270 C 01/31/13 1 2,4-Dichlorophenol BDL 0.010 mg/l 8270 C 01/31/13 1 2,4-Dimethylphenol BDL 0.010 mg/l 8270 C 01/31/13 1 4,6-Dinitro-2-methylphenol BDL 0.010 mg/l 8270 C 01/31/13 1 2,4-Dinitrophenol BDL 0.010 mg/l 8270 C 01/31/13 1 2,4-Dinitrophenol BDL 0.010 mg/l 8270 C 01/31/13 1	Acid Extractables					
2,4-Dichlorophenol BDL 0.010 mg/l 8270 C 01/31/13 1 2,4-Dimethylphenol BDL 0.010 mg/l 8270 C 01/31/13 1 4,6-Dinitro-2-methylphenol BDL 0.010 mg/l 8270 C 01/31/13 1 2,4-Dinitrophenol BDL 0.010 mg/l 8270 C 01/31/13 1 0.010 mg/l 8270 C 01/31/13 1	4-Chloro-3-methylphenol	BDL	0.010	mg/1	8270 C	01/31/13 1
2,4-Dimethylphenol BDL 0.010 mg/l 8270 C 01/31/13 1 4,6-Dinitro-2-methylphenol BDL 0.010 mg/l 8270 C 01/31/13 1 2,4-Dinitrophenol BDL 0.010 mg/l 8270 C 01/31/13 1	2-Chlorophenol	BDL	0.010	mg/1	8270 C	01/31/13 1
4,6-Dinitro-2-methylphenol BDL 0.010 mg/l 8270 C 01/31/13 1 2,4-Dinitrophenol BDL 0.010 mg/l 8270 C 01/31/13 1	2,4-Dichlorophenol	BDL	0.010	mg/1	8270 C	01/31/13 1
2,4-Dinitrophenol BDL 0.010 mg/l 8270 C 01/31/13 1		BDL	0.010	mg/1	8270 C	01/31/13 1
	4,6-Dinitro-2-methylphenol	BDL	0.010	mg/1	8270 C	01/31/13 1
2-Nitrophenol BDL 0.010 mg/l 8270 C 01/31/13 1	2,4-Dinitrophenol	BDL	0.010	mg/1	8270 C	01/31/13 1
	2-Nitrophenol	BDL	0.010	mg/1	8270 C	01/31/13 1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)



John Burton

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

February 06, 2013

Engineering & Env. Consultants, INC 7878 N. 16th Street, Suite 140

Phoenix, AZ 85020

ESC Sample # : L617505-02

Date Received : January 29, 2013 Description : ADOT Stormwater - Sedona

Sample ID SED012513-C Site ID : SEDONA SAMPLER

Project #: 308032.20

Collected By : John Burton Collection Date : 01/28/13 09:45

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
4-Nitrophenol	BDL	0.010	mq/l	8270 C	01/31/13	1
Pentachlorophenol	BDL	0.010	mg/l	8270 C	01/31/13	1
Phenol	BDL	0.010	mg/l	8270 C	01/31/13	1
2,4,6-Trichlorophenol	BDL	0.010	mg/1	8270 C	01/31/13	1
Surrogate Recovery						
2-Fluorophenol	51.7		% Rec.	8270 C	01/31/13	1
Phenol-d5	36.6		% Rec.	8270 C	01/31/13	1
Nitrobenzene-d5	81.2		% Rec.	8270 C	01/31/13	1
2-Fluorobiphenyl	91.2		% Rec.	8270 C	01/31/13	1
2,4,6-Tribromophenol	92.6		% Rec.	8270 C	01/31/13	1
p-Terphenyl-d14	100.		% Rec.	8270 C	01/31/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted. This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 02/06/13 13:46 Printed: 02/06/13 15:04

Attachment A List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
		_	-		
L617505-01	WG635165	SAMP	Oil & Grease (Hexane Extr)	R2528138	L3
	WG635274	SAMP	Coliform, fecal	R2529137	T8
	WG635192	SAMP	E.Coli	R2527841	T8
	WG635192	SAMP	Coliform, Total	R2527841	T8
	WG634647	SAMP	Cyanide	R2526177	W
L617505-02	WG634587	SAMP	Phosphate,Ortho	R2526438	T8
	WG634335	SAMP	BOD	R2527239	J4T8
	WG634625	SAMP	Chlorine, residual	R2524278	T8
	WG634555	SAMP	MBAS	R2523377	T8
	WG634449	SAMP	Suspended Solids	R2527521	J3
	WG634793	SAMP	Turbidity	R2525358	T8

Attachment B Explanation of QC Qualifier Codes

Qualifier	Meaning
Ј3	The associated batch QC was outside the established quality control range for precision. $\ \ \ \ \ \ \ \ \ \ \ \ \ $
J4	The associated batch QC was outside the established quality control range for accuracy.
L3	(ESC) Sample reanalysis and/or spiking could not be performed due to lack of additional volume.
Т8	(ESC) - Additional method/sample information: Sample(s) received past/too close to holding time expiration.
W	(ESC)-The laboratory analysis was from a sample collected in an improper container

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

- Accuracy The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision The agreement between a set of samples or between duplicate samples.

 Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.



Engineering & Env. Consultants, INC. -AZ John Burton 7878 N. 16th Street, Suite 140

Phoenix, AZ 85020

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Tax I.D. 62-0814289

Est. 1970

Quality Assurance Report Level II

L617505

		Laboratory	Blank			
Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Antimony	< .02	mg/l			WG634418	3 01/29/13 22:13
Arsenic	< .02	mg/l				3 01/29/13 22:13
Barium	< .005	mg/l				3 01/29/13 22:13
Beryllium	< .002	mg/l				3 01/29/13 22:13
Cadmium	< .002	mg/l				3 01/29/13 22:13
Calcium	< .5	mg/l				3 01/29/13 22:13
Chromium	< .01	mg/l				3 01/29/13 22:13
Copper	< .02	mg/l				3 01/29/13 22:13
Lead	< .005	mg/l				3 01/29/13 22:13
Nickel	< .02	mg/l				3 01/29/13 22:13
Selenium	< .02	mg/1				3 01/29/13 22:13
Silver	< .01	mg/l				3 01/29/13 22:13
Sodium	< .5	mg/l				3 01/29/13 22:13
Zinc	< .03	mg/l				3 01/29/13 22:13
		45				
Chloride	< 1	mg/l				01/29/13 07:44
Sulfate	< 5	mg/l			WG634319	9 01/29/13 07:44
Benzene	< .0005	mg/l			WG634494	1 01/29/13 23:45
Ethylbenzene	< .0005	mg/l			WG634494	1 01/29/13 23:45
Toluene	< .005	mg/l				1 01/29/13 23:45
Total Xylene	< .0015	mg/l			WG634494	1 01/29/13 23:45
a,a,a-Trifluorotoluene(PID)		% Rec.	101.7	55-122	WG634494	1 01/29/13 23:45
Ammonia Nitrogen	< .1	mg/l			WG634372	2 01/30/13 14:44
MBAS	< .1	mg/l			WG634555	5 01/30/13 15:46
Mercury	< .0002	mg/l			WG634524	1 01/30/13 20:21
Chlorine, residual	< .1	mg/l			WG634625	5 01/31/13 13:06
1 O A modella contractor	< .01				¥4GC2.4C02	01/21/12 04.51
1,2,4-Trichlorobenzene	< .01	mg/l				3 01/31/13 04:53 3 01/31/13 04:53
2,4,6-Trichlorophenol 2,4-Dichlorophenol	< .01	mg/l mg/l				3 01/31/13 04·53 3 01/31/13 04:53
2,4-Dimethylphenol	< .01	mg/l				3 01/31/13 04:53 3 01/31/13 04:53
2,4-Dinitrophenol	< .01	mg/l				3 01/31/13 04:53
2.4-Dinitrophenoi 2.4-Dinitrotoluene	< .01	mg/l				3 01/31/13 04:53 3 01/31/13 04:53
2,6-Dinitrotoluene	< .01	mg/l				3 01/31/13 04:53 3 01/31/13 04:53
2-Chloronaphthalene	< .001	mg/l				3 01/31/13 04:53
2-Chlorophenol	< .001	mg/l				3 01/31/13 04:53
2-Nitrophenol	< .01	mg/l				3 01/31/13 04:53
3,3-Dichlorobenzidine	< .01	mg/l				3 01/31/13 04:53
4,6-Dinitro-2-methylphenol	< .01	mg/l				3 01/31/13 04:53
4-Bromophenyl-phenylether	< .01	mg/l				3 01/31/13 04:53
4-Chloro-3-methylphenol	< .01	mg/l				3 01/31/13 04:53
4-Chlorophenyl-phenylether	< .01	mg/l				3 01/31/13 04:53
4-Nitrophenol	< .01	mg/l				3 01/31/13 04:53
Acenaphthene	< .001	mg/l				3 01/31/13 04:53
Acenaphthylene	< .001	mg/l				3 01/31/13 04:53
Anthracene	< .001	mg/l				3 01/31/13 04:53
Benzidine	< .01	mg/l				3 01/31/13 04:53

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Tax I.D. 62-0814289

Est. 1970

Quality Assurance Report Level II

L617505

Analyte	Result	Laboratory Units	% Rec	Limit	Batch	Date Analyzed
.mary oc	11050110	0112 013	0 1100	2211120	Datoti	Dade Imaly Dea
Benzo(a)anthracene	< .001	mg/l			WG634623	01/31/13 04:5
Benzo(a)pyrene	< .001	mg/l			WG634623	01/31/13 04:5
Benzo(b)fluoranthene	< .001	mg/l			WG634623	01/31/13 04:5
Benzo(g,h,i)perylene	< .001	mg/l			WG634623	01/31/13 04:5
Benzo(k)fluoranthene	< .001	mg/l			WG634623	01/31/13 04:5
Benzylbutyl phthalate	< .003	mg/l			WG634623	01/31/13 04:5
Bis(2-chlorethoxy)methane	< .01	mg/l			WG634623	01/31/13 04:5
Bis(2-chloroethyl)ether	< .01	mg/l			WG634623	01/31/13 04:5
Bis(2-chloroisopropyl)ether	< .01	mg/l			WG634623	01/31/13 04:5
Bis(2-ethylhexyl)phthalate	< .003	mg/l			WG634623	01/31/13 04:5
Chrysene	< .001	mg/l			WG634623	01/31/13 04:5
Di-n-butyl phthalate	< .003	mg/l			WG634623	01/31/13 04:5
Di-n-octyl phthalate	< .003	mg/l			WG634623	01/31/13 04:5
Dibenz(a,h)anthracene	< .001	mg/l			WG634623	01/31/13 04:5
Diethyl phthalate	< .003	mg/l			WG634623	01/31/13 04:5
Dimethyl phthalate	< .003	mg/l			WG634623	01/31/13 04:5
Fluoranthene	< .001	mg/l			WG634623	01/31/13 04:5
Fluorene	< .001	mg/l			WG634623	01/31/13 04:5
Hexachloro-1,3-butadiene	< .01	mg/l			WG634623	01/31/13 04:5
Hexachlorobenzene	< .001	mg/l			WG634623	01/31/13 04:5
Hexachlorocyclopentadiene	< .01	mg/l			WG634623	01/31/13 04:5
Hexachloroethane	< .01	mg/l			WG634623	01/31/13 04:5
Indeno(1,2,3-cd)pyrene	< .001	mg/l			WG634623	01/31/13 04:5
Isophorone	< .01	mg/l			WG634623	01/31/13 04:5
n-Nitrosodi-n-propylamine	< .01	mg/l				01/31/13 04:5
n-Nitrosodimethylamine	< .01	mg/l			WG634623	01/31/13 04:5
n-Nitrosodiphenylamine	< .01	mg/l				01/31/13 04:5
Naphthalene	< .001	mg/l				01/31/13 04:5
Nitrobenzene	< .01	mg/l				01/31/13 04:5
Pentachlorophenol	< .001	mg/l				01/31/13 04:5
Phenanthrene	< .001	mg/l				01/31/13 04:5
Phenol	< .01	mg/1				01/31/13 04:5
Pyrene	< .001	mg/l				01/31/13 04:5
2,4,6-Tribromophenol		% Rec.	63.80	16-147		01/31/13 04:5
2-Fluorobiphenyl		% Rec.	82.30	29-127		01/31/13 04:5
2-Fluorophenol		% Rec.	41.10	10-75		01/31/13 04:5
Nitrobenzene-d5		% Rec.	74.10	17-119		01/31/13 04:5
Phenol-d5		% Rec.	28.70	10-63		01/31/13 04:5
p-Terphenyl-d14		% Rec.	94.10	40-174	WG634623	01/31/13 04:5
Turbidity	< .1	NTU			WG634793	01/31/13 15:4
COD	< 10	mg/l			WG634576	01/31/13 14:3
4,4-DDD	< .00005	mg/l			WG634514	02/01/13 10:5
4,4-DDE	< .00005	mg/l				02/01/13 10:5
4,4-DDT	< .00005	mg/l				02/01/13 10:5
Aldrin	< .00005	mg/l				02/01/13 10:5
Alpha BHC	< .00005	mg/l				02/01/13 10:5
Beta BHC	< .00005	mg/l				02/01/13 10:5
Chlordane	< .005	mg/l				02/01/13 10:5
Delta BHC	< .00005	mg/l				02/01/13 10:5
Dieldrin	< .00005	mg/l				02/01/13 10:5
Endosulfan I	< .00005	mg/l				02/01/13 10:5
Endosulfan II	< .00005	mg/l				02/01/13 10:5
Endosulfan sulfate	< .00005	mg/l				02/01/13 10:5

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Quality Assurance Report Level II

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		Laboratory Bla	ank			
Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Endrin	< .00005	mq/l			WC634514	02/01/13 10:59
Endrin aldehyde	< .00005	mg/l				02/01/13 10:59
Endrin ketone	< .00005	mg/l				02/01/13 10:59
Gamma BHC	< .00005	mg/l				02/01/13 10:59
Heptachlor	< .00005	mq/l			WG634514	02/01/13 10:59
Heptachlor epoxide	< .00005	mq/l			WG634514	02/01/13 10:59
Hexachlorobenzene	< .00005	mg/l			WG634514	02/01/13 10:59
Methoxychlor	< .00005	mg/l			WG634514	02/01/13 10:59
Toxaphene	< .0005	mg/l			WG634514	02/01/13 10:59
Decachlorobiphenyl		% Rec.	80.30	10-141	WG634514	02/01/13 10:59
Tetrachloro-m-xylene		% Rec.	62.40	10-125	WG634514	02/01/13 10:59
Kjeldahl Nitrogen, TKN	< .1	mg/l			WG634374	02/01/13 12:06
Dissolved Solids	< 10	mg/l			WG634450	02/01/13 14:53
Cyanide	< .005	mg/l			WG634647	02/01/13 14:48
Phosphate,Ortho	< .025	mg/l			WG634587	01/30/13 16:30
Nitrate-Nitrite	< .1	mg/l			WG634963	02/02/13 14:51
BOD	0	mg/l			WG634335	02/03/13 09:57
Suspended Solids	< 1	mg/l			WG634449	02/04/13 12:14
Oil & Grease (Hexane Extr)	< 5	mg/l			WG635165	02/04/13 15:47
Specific Conductance	3.00	umhos/cm			WG635000	02/05/13 09:31
Hardness, Total (mg/L as CaCO3)	< 30	mg/l			WG635231	02/05/13 10:28

		I	Ouplicate				
Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
Antimony	mg/l	0	0.00550	NA	20	L617511-01	WG634418
Arsenic	mg/1	0	0	0	20	L617511-01	WG634418
Barium	mg/l	0.170	0.160	6.06	20	L617511-01	WG634418
Beryllium	mg/l	0	0	0	20	L617511-01	WG634418
Cadmium	mg/l	0	0.000840	NA	20	L617511-01	WG634418
Calcium	mg/1	77.0	76.6	0.521	20	L617511-01	WG634418
Chromium	mg/l	0	0	0	20	L617511-01	WG634418
Copper	mg/l	0	0.00330	NA	20	L617511-01	WG634418
Lead	mg/1	0	0	0	20	L617511-01	WG634418
Nickel	mg/l	0	0	0	20	L617511-01	WG634418
Selenium	mg/l	0	0	0	20	L617511-01	WG634418
Silver	mg/l	0	0	0	20	L617511-01	WG634418
Sodium	mg/l	21.0	20.6	1.92	20	L617511-01	WG634418
Zinc	mg/l	0.110	0.107	2.76	20	L617511-01	WG634418

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Quality Assurance Report Level II

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			uplicate				
Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
Ammonia Nitrogen	mg/l	1.20	1.40	15.4	20	L617078-01	WG6343
Ammonia Nitrogen	mg/l	0.840	0.850	1.18	20	L617505-02	WG6343
MBAS	mg/l	0	0	0	20	L617678-02	WG6345
Mercury	mg/l	0	0.0000231	16.1	20	L617620-01	WG6345
Chlorine, residual	mg/l	0	0	0	20	L616890-01	WG6346
Phosphorus, Total	mg/l	0	0	0	20	L617451-02	WG6343
Phosphorus, Total	mg/l	4.80	4.90	2.06	20	L617072-01	WG6343
Turbidity	NTU	150.	150.	0	20	L617732-03	WG6347
COD	mg/l	460.	510.	10.3*	5	L617524-03	WG6345
COD	mg/l	540.	540.	0	5	L617058-01	WG6345
Kjeldahl Nitrogen, TKN	mg/l	2.10	2.10	1.89	20	L617195-01	WG6343
Kjeldahl Nitrogen, TKN	mg/l	0	0	0	20	L617287-01	WG6343
Dissolved Solids	mg/l	380.	387.	1.83	5	L617467-01	WG6344
Cyanide	mg/l	0	0	0	20	L617536-02	WG6346
Cyanide	mg/l	0	0	0	20	L617298-02	WG6346
Nitrate-Nitrite	mg/l	0	0.110	NA	20	L617550-01	WG6349
Nitrate-Nitrite	mg/l	1.50	1.60	6.45	20	L617003-02	WG6349
BOD	mg/l	27.0	26.0	2.66	5	L617393-02	WG6343
BOD	mg/l	0	0	0	5	L617451-07	WG6343
BOD	mg/l	3500	3700	4.53	5	L617529-01	WG6343
Suspended Solids	mg/l	1100	1200	8.03*	5	L617505-02	WG6344
Specific Conductance	umhos/cm	220.	220.	0.905	20	L617489-01	WG6350
Specific Conductance	umhos/cm	26000	26000	0.385	20	L618194-01	WG6350
Hardness, Total (mg/L as CaCO3)	mg/l	4700	4700	0	20	L618194-01	WG635
Hardness, Total (mg/L as CaCO3)	mg/l	200.	200.	0	20	L617287-01	WG6352
_		_	Control Sa	_			
Analyte	Units	Known Val	I	Result	% Rec	Limit	Batch
Antimony	mg/l	1	1.0	02	102.	85-115	WG6344
Arsenic	mg/l	1	1.0	01	101.	85-115	WG6344

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Quality Assurance Report Level II

L617505

		Laboratory Control Sample									
Analyte	Units	Known Val	Result	% Rec	Limit	Batch					
Barium	mg/l	1	1.04	104.	85-115	WG63441					
Beryllium	mg/l	1	1.01	101.	85-115	WG63441					
Cadmium	mg/l	1	1.03	103.	85-115	WG63441					
Calcium	mg/l	10	10.5	105.	85-115	WG63441					
Chromium	mg/l	1	1.03	103.	85-115	WG63441					
Copper	mg/l	1	1.00	100.	85-115	WG63441					
Lead	mg/l	1	1.07	107.	85-115	WG63441					
Nickel	mg/l	1	0.999	99.9	85-115	WG6344					
Selenium	mg/l	1	1.01	101.	85-115	WG6344					
Silver	mg/l	1	1.04	104.	85-115	WG6344					
Sodium	mg/l	10	10.4	104.	85-115	WG63441					
Zinc	mg/l	1	1.01	101.	85-115	WG63441					
Chloride	mg/l	40	39.8	99.5	90-110	WG63431					
Sulfate	mg/l	40	40.0	100.	90-110	WG63431					
	5/ -										
Benzene	mg/l	.05	0.0447	89.5	79-114	WG63449					
Ethylbenzene	mg/l	.05	0.0524	105.	80-116	WG63449					
Toluene	mg/l	.05	0.0491	98.3	79-112	WG63449					
Total Xylene	mg/l	.15	0.156	104.	84-118	WG63449					
a,a,a-Trifluorotoluene(PID)	5/ =	.13	0.130	100.6	55-122	WG63449					
a,a,a ililiaolocolache(ilb)				100.0	33 122	WG0511.					
Ammonia Nitrogen	mg/l	7.5	8.01	107.	90-110	WG6343					
MBAS	mg/l	1	0.934	93.4	85-115	WG63455					
Mercury	mg/l	.003	0.00317	106.	85-115	WG63452					
Chlorine,residual	mg/l	1.19	1.12	94.1	85-115	WG63462					
chitorine, residuar	mg/1	1.19	1.12	94.1	03-113	WG03402					
1,2,4-Trichlorobenzene	mg/l	.01	0.00746	74.6	18-130	WG63462					
2,4,6-Trichlorophenol	mg/l	.01	0.00730	73.0	12-147	WG6346					
2,4-Dichlorophenol	mg/l	.01	0.00757	75.7	10-157	WG6346					
2,4-Dimethylphenol	mg/l	.01	0.00729	72.9	19-160	WG63462					
2,4-Dinitrophenol	mg/l	.01	0.00997	99.7	10-135	WG6346					
2,4-Dinitrotoluene	mg/l	.01	0.00808	80.8	30-168	WG6346					
2,6-Dinitrotoluene	mg/l	.01	0.00799	79.9	32-163	WG63462					
2-Chloronaphthalene	mg/l	.01	0.00829	82.9	29-149	WG63462					
2-Chlorophenol	mg/l	.01	0.00677	67.7	16-129	WG6346					
2-Nitrophenol	mg/l	.01	0.00802	80.2	14-158	WG63462					
3,3-Dichlorobenzidine	mg/l	.01	0.00774	77.4	42-150	WG6346					
4,6-Dinitro-2-methylphenol	mg/l	.01	0.00658	65.8	10-164	WG6346					
4-Bromophenyl-phenylether	mg/l	.01	0.00843	84.3	40-166	WG63462					
4-Chloro-3-methylphenol	mg/l	.01	0.00703	70.3	14-158	WG6346					
1-Chlorophenyl-phenylether	mg/l	.01	0.00843	84.3	39-155	WG6346					
4-Nitrophenol	mg/1	.01	0.00317	31.7	10-61	WG63462					
Acenaphthene	mg/l	.01	0.00834	83.4	37-159	WG6346					
Acenaphthylene	mg/l	.01	0.00844	84.4	34-162	WG6346					
Anthracene	mg/l	.01	0.00873	87.3	48-167	WG6346					
Benzidine	mg/l	.01	0.00274	27.4	10-86	WG6346					
Benzidine Benzo(a)anthracene	mg/l	.01	0.00274	85.8	46-167	WG63462					
Benzo(a)anthracene Benzo(a)pyrene	mg/l	.01	0.00826	82.6	39-167	WG63462					
penzo (a) byt ene	III9/I	.01	0.00020	04.0	39-10/	WG0346.					

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Quality Assurance Report Level II

L617505

February 06, 2013

		Laboratory Con				
Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Benzo(b)fluoranthene	mg/l	.01	0.00834	83.4	39-173	WG634
Benzo(g,h,i)perylene	mg/l	.01	0.00805	80.5	42-181	WG634
Benzo(k)fluoranthene	mg/l	.01	0.00864	86.4	42-178	WG634
Benzylbutyl phthalate	mg/l	.01	0.00916	91.6	10-178	WG634
Bis(2-chlorethoxy)methane	mg/l	.01	0.00836	83.6	34-155	WG634
Bis(2-chloroethyl)ether	mg/l	.01	0.00731	73.1	22-149	WG634
Bis(2-chloroisopropyl)ether	mg/l	.01	0.00793	79.3	26-149	WG634
Bis(2-ethylhexyl)phthalate	mg/l	.01	0.0109	109.	42-191	WG634
Chrysene	mg/l	.01	0.00911	91.1	46-170	WG634
Di-n-butyl phthalate	mg/l	.01	0.00869	86.9	33-175	WG634
Di-n-octyl phthalate	mg/l	.01	0.00912	91.2	40-170	WG634
Dibenz(a,h)anthracene	mg/l	.01	0.00781	78.1	43-187	WG634
piethyl phthalate	mg/l	.01	0.00878	87.8	10-182	WG634
Dimethyl phthalate	mg/l	.01	0.00879	87.9	10-165	WG634
luoranthene	mg/l	.01	0.00864	86.4	46-171	WG634
luorene	mg/l	.01	0.00852	85.2	39-163	WG634
Mexachloro-1,3-butadiene	mg/l	.01	0.00763	76.3	18-136	WG634
Mexachlorobenzene	mg/l	.01	0.00792	79.2	38-163	WG634
Mexachlorocyclopentadiene	mg/l	.01	0.00792	79.2	10-142	WG634
Mexachloroethane		.01		74.9		WG634
	mg/l		0.00749		10-130	
Indeno(1,2,3-cd)pyrene	mg/l	.01	0.00776	77.6	42-184	WG634
sophorone	mg/l	.01	0.00833	83.3	36-166	WG634
-Nitrosodi-n-propylamine	mg/l	.01	0.00848	84.8	27-157	WG634
-Nitrosodimethylamine	mg/l	.01	0.00755	75.5	10-96	WG634
-Nitrosodiphenylamine	mg/l	.01	0.00870	87.0	41-168	WG634
Japhthalene	mg/l	.01	0.00845	84.5	26-147	WG634
Mitrobenzene	mg/l	.01	0.00790	79.0	22-154	WG634
entachlorophenol	mg/l	.01	0.00735	73.5	10-128	WG634
henanthrene	mg/l	.01	0.00845	84.5	46-163	WG634
henol	mg/l	.01	0.00357	35.7	10-69	WG63
yrene	mg/l	.01	0.00889	88.9	45-176	WG634
4,4,6-Tribromophenol	3/ =	.01	0.00003	76.90	16-147	WG634
-Fluorobiphenyl				77.90	29-127	WG63
-Fluorophenol				44.30	10-75	WG634
itrobenzene-d5				76.90	17-119	WG634
henol-d5				30.60	10-63	WG634
-Terphenyl-d14				82.80	40-174	WG634
hosphorus,Total	mg/l	1	1.01	101.	90-110	WG634
Turbidity	NTU	40	40.5	101.	90-110	WG634
COD	mg/l	230	234.	102.	90-110	WG634
4,4-DDD	mg/l	.0002	0.000158	79.2	60-123	WG634
,4-DDE	mg/l	.0002	0.000144	72.0	50-120	WG63
,4-DDT	mg/l	.0002	0.000111	81.9	61-121	WG634
ldrin	mg/l	.0002	0.000104	42.7	10-136	WG634
		.0002		77.3	58-114	WG63
lpha BHC	mg/l		0.000155			
eta BHC	mg/l	.0002	0.000154	77.0	61-120	WG63
elta BHC	mg/l	.0002	0.000153	76.4	57-120	WG63
ieldrin	mg/l	.0002	0.000163	81.3	62-123	WG63
ndosulfan I	mg/l	.0002	0.000159	79.7	63-123	WG63
ndosulfan II	mg/l	.0002	0.000167	83.4	63-124	WG63
ndosulfan sulfate	mg/l	.0002	0.000146	72.9	59-125	WG63

^{*} Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



Dengineering & Env. Consultants, INC. -AZ John Burton 7878 N. 16th Street, Suite 140

Phoenix, AZ 85020

12065 Lebanon Rd. Mt. Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Quality Assurance Report Level II

L617505

Units	Known	Val		0 D	Limit		Do t ah	
		VUI	Result	% Rec		Limit	Batch	
mq/l	.0002		0.000160	79.9		60-123	WG63451	
mg/l	.0002		0.000159	79.7		42-92	WG63451	
mg/l	.0002		0.000180	90.0		60-117	WG63451	
mg/l	.0002		0.000157	78.6		59-116	WG63451	
mg/l	.0002		0.000101	50.4		10-131	WG63451	
mg/l	.0002		0.000157	78.6		61-118	WG63451	
mg/l	.0002		0.000102	51.0		28-116	WG63451	
mg/l			0.000181	90.5		66-122	WG63451	
٥,							WG63451	
				70.10		10-125	WG63451	
mg/l	8.55		8.46	98.9		90-110	WG63437	
J.								
mg/l	8800		8510	96.7		85-115	WG63445	
mg/l	.1		0.0975	97.5		90-110	WG63464	
mg/l	.75		0.849	113.		85-115	WG63458	
trate-Nitrite mg/l			5.27	105.		90-110	WG63496	
mg/l	198		199.	101.		84.6-115.4	WG63433	
mg/l	198		187.	94.4		84.6-115.4	WG63433	
mg/l	198		230.	116.*		84.6-115.4	WG63433	
mg/l	198		193.	97.5		84.6-115.4	WG63433	
mg/l	198		180.	90.9		84.6-115.4	WG63433	
mg/l	198		192.	97.0		84.6-115.4	WG63433	
mg/l	773		752.	97.3		85-115	WG63444	
mg/l	40		40.0	100.		78-114	WG63516	
umhos/	cm 878		899.	102.		85-115	WG63500	
mg/l	200		209.	105.		85-115	WG63523	
		Tontrol Co						
	-	Ref	%Rec	Limit	RPD	Limit	Batch	
ma / 1	39.8	39 8	100	90-110	0	20	WG63431	
mg/l	40.0	40.0	100.	90-110	0	20	WG63431	
_								
mg/l	0.0462	0.0447	92.0	79-114		20	WG63449	
							WG63449	
mg/l	0.0505	0.0491	101.				WG63449	
mg/l	0.160	0.156	107.	84-118	2.38	20	WG63449	
	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	mg/l .0002 mg/l 8.55 mg/l 8800 mg/l .1 mg/l .75 mg/l 5 mg/l 198 mg/l 200 Laboratory (Units Result mg/l 39.8 mg/l 40.0 mg/l 0.0462 mg/l 0.0540 mg/l 0.0505 mg/l 0.160	mg/l .0002 mg/l 8.55 mg/l 8800 mg/l .1 mg/l .75 mg/l 198 mg/l 200 Laboratory Control Sa mg/l 200 Laboratory Control Sa mg/l 39.8 39.8 mg/l 40.0 40.0 mg/l 0.0462 0.0447 mg/l 0.0505 0.0491 mg/l 0.160 0.156	mg/l .0002 0.000157 mg/l .0002 0.000101 mg/l .0002 0.000157 mg/l .0002 0.000102 mg/l .0002 0.000181 mg/l .0002 0.000181 mg/l 8800 8510 mg/l .1 0.0975 mg/l .75 0.849 mg/l .98 199 mg/l .198 187 mg/l .198 193 mg/l .198 193 mg/l .198 192 mg/l .40 40 umhos/cm 878 899 mg/l .200 209 Laboratory Control Sample Duplicat Units Result Ref %Rec mg/l	mg/l .0002 0.000157 78.6 mg/l .0002 0.000101 50.4 mg/l .0002 0.000157 78.6 mg/l .0002 0.000102 51.0 mg/l .0002 0.000181 90.5 98.80 70.10 mg/l 8.55 8.46 98.9 mg/l 8800 8510 96.7 mg/l .1 0.0975 97.5 mg/l .75 0.849 113. mg/l .98 199. 101. mg/l .198 .187. 94.4 mg/l .198 .187. 94.4 mg/l .198 .183. .97.5 mg/l .198 .180. .90.9 mg/l .198 .180. .90.9 mg/l .198 .180. .90.9 mg/l .198 .180. .90.9 mg/l .40 .40.0 .100. mg/l .40 .40.0 .100. mg/l .20	mg/1 .0002 0.000157 78.6 mg/1 .0002 0.000157 78.6 mg/1 .0002 0.000157 78.6 mg/1 .0002 0.000102 51.0 mg/1 .0002 0.000181 90.5 98.80 70.10 mg/1 8.55 8.46 98.9 mg/1 .1 0.0975 97.5 mg/1 .75 0.849 113. mg/1 .75 0.849 113. mg/1 .198 .187. 94.4 mg/1 .198 .187. .94.4 mg/1 .198 .199. .101. mg/1 .198 .193. .97.5 mg/1 .198 .180. .90.9 mg/1 .198 .180. .90.9 mg/1 .198 .180. .90.9 mg/1 .198 .180. .90.9 mg/1 .40 .40.0 .100. umhos/cm 878 .899. .102. mg/1 .40.0 </td <td>mg/1 .0002 0.000157 78.6 59-116 mg/1 .0002 0.000101 50.4 10-131 mg/1 .0002 0.000157 78.6 61-118 mg/1 .0002 0.000102 51.0 28-116 mg/1 .0002 0.000181 90.5 66-122 98.80 10-141 70.10 10-125 mg/1 8.55 8.46 98.9 90-110 mg/1 8800 8510 96.7 85-115 mg/1 .1 0.0975 97.5 90-110 mg/1 .75 0.849 113. 85-115 mg/1 .98 199. 101. 84.6-115.4 mg/1 .198 187. 94.4 84.6-115.4 mg/1 .198 193. 97.5 84.6-115.4 mg/1 .198 193. 97.5 84.6-115.4 mg/1 .198 193. 97.5 84.6-115.4 mg/1 .198</td>	mg/1 .0002 0.000157 78.6 59-116 mg/1 .0002 0.000101 50.4 10-131 mg/1 .0002 0.000157 78.6 61-118 mg/1 .0002 0.000102 51.0 28-116 mg/1 .0002 0.000181 90.5 66-122 98.80 10-141 70.10 10-125 mg/1 8.55 8.46 98.9 90-110 mg/1 8800 8510 96.7 85-115 mg/1 .1 0.0975 97.5 90-110 mg/1 .75 0.849 113. 85-115 mg/1 .98 199. 101. 84.6-115.4 mg/1 .198 187. 94.4 84.6-115.4 mg/1 .198 193. 97.5 84.6-115.4 mg/1 .198 193. 97.5 84.6-115.4 mg/1 .198 193. 97.5 84.6-115.4 mg/1 .198	

 $[\]mbox{\scriptsize \star}$ Performance of this Analyte is outside of established criteria. For addit

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7878 N. 16th St., Suite 140									g st agt st						Prepared by:	
Phoenix, AZ 85020							136								S. ENVIDONIS	-NITAL
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Project Description: A DoT St	-cumte	· Si	= NA A/A		ate Collected:				185			9	only)	Phone (615)7	58-5858
PHONE:602-248-7702	Client Project N	o.	2001011	Lab Project #	ENGENVPAZ	-			٠.		4	h_	35		Phone (800)	
FAX: 602-248-7851	70000	2 2 2								2	7	, (າັ		. FAX (615)/58-5859
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Collected by(signature):		ab MUST be		Standar		No			7	Ko,	1/2				ENGENVPAZ Template/Prelogin	
John Buto		lext Day wo Day		Email?N		of	1			K~ (0				remplate/Frelogin	
1		Three Day		FAX?N			1								Shipped Via: Phoenix S	ervice Center
Packed on Ice NY X						Cntrs	8 260B (A Z)								Remarks/contaminant	Sample # (lab only)
Sample ID	Comp/Grab	Matrix	Depth	Date	Time	-	00/	1-							Ph 7.31 Tem 56.30 F	L617505-01
SEDOI2513-G	Grab	Zi N AA		1- 25-13		1	<u> </u>		Se	1	Ha	Leo) (157	7cm 56.301	- 02
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Matrix: SS-Soil/Solid GW-Groundwa	ater WW-Wa	stewater [)W-Drinking \	Nater OT-O	ther SW	510	านน	sale,	_				pH_		Temp	
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12065 Lebanon Rd. Mt. Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

John Burton Engineering & Env. Consultants, INC. -AZ 7878 N. 16th Street, Suite 140 Phoenix, AZ 85020

Report Summary

Thursday December 27, 2012

Report Number: L611442 Samples Received: 12/15/12 Client Project: 308032.20

Description: ADOT Stormwater

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Mark W. Beasley , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197, FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704/BIO041, ND - R-140. NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1, TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

This report may not be reproduced, except in full, without written approval from ESC Lab Sciences. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



John Burton

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Est. 1970

REPORT OF ANALYSIS

December 27, 2012

Engineering & Env. Consultants, INC 7878 N. 16th Street, Suite 140

Phoenix, AZ 85020

ESC Sample # : L611442-01

Project #: 308032.20

Site ID :

Date Received : December 15, 2012

Description : ADOT Stormwater

Sample ID PHX 121412

Collected By

Collection Date : 12/14/12 07:37

Result Det. Limit Units Method Dil. Parameter Date col/100ml SM9222D Coliform, fecal >400 12/14/12 1 E.Coli >2400 1.0 MPN/100ml 9223B 12/14/12 1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted. This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 12/27/12 13:41 Printed: 12/27/12 13:42

L611442-01 (COLIFORM, FECAL) - subcontracted to Legend Techn Services L611442-01 (COLILERT) - subcontracted to Legend Techn Services

Summary of Remarks For Samples Printed 12/27/12 at 13:42:12

TSR Signing Reports: 288 R5 - Desired TAT

Baker Exxon Proj 105022.01 Ken & Mel's Proj 105022.02 MCAA Proj 305007.05 -ALL require TO-15+GRO on ALL AIR SAMPLES ENGENVPAZ-122012S NO CHARGE TBs

Sample: L611442-01 Account: ENGENVPAZ Received: 12/15/12 10:00 Due Date: 12/21/12 00:00 RPT Date: 12/27/12 13:41 Subbed to Legendpaz direct jlc 12/17/12 PO#S17495



Phoenix, AZ 85020

Engineering & Env. Consultants, INC. -AZ John Burton 7878 N. 16th Street, Suite 140 $\,$

Quality Assurance Report Level II

L611442

12065 Lebanon Rd. Mt. Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

December 27, 2012

Batch number /Run number / Sample number cross reference

WG628557: R2493142: L611442-01

 $^{^{\}star}$ * Calculations are performed prior to rounding of reported values.

^{*} Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



Engineering & Env. Consultants, INC. -AZ John Burton 7878 N. 16th Street, Suite 140

Phoenix, AZ 85020

Quality Assurance Report Level II

L611442

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

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Tax I.D. 62-0814289

Est. 1970

December 27, 2012

*	Laboratory Sample ID:
	66/1442

CHAIN OF CUSTODY RECORD



☐ 17631 N. 25th Avenue • Phoenix, AZ 85023 • (602) 324-6100 • Fax (602) 324-6101 ☐ 4585 S. Palo Verde Rd, Ste 423 • Tucson, AZ 85714 • (520) 327-1234 • Fax (520) 327-0518

Page	of	

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CLIENT INFORMATION					-					tate	Zip	Phone				Fax Nur	mber or E	mail Addre	ss
Client Name		Address	0.4		City	•	\	\			1 '			70-0.	500			by es	
950 Lab Sciences		1300	5 Lebanon Rd			10r	W.	7	1 43 de	$\frac{1}{N}$	37122		Results		-283	<u> </u>	Report [7 FDD	品。
Project Name		Project Nu	mber		ntact		\mathcal{C}	۸ ., .		P.	.U, No.			_				_	긺
Project Name ADOT Stormwate				7	ini	(6		OC.	0/			Em:	ail Resu		Vere		cial Deter	ction Limits	뷕
SAMPLE TYPE CODES		1	URN AROUND TIME							_	, , , , , , , , , , , , , , , , , , , 	KEWUI	<u> </u>	ANA (<u> </u>	\overline{T}	T^{-}	TT	71
DW=Drinking S=Soit/Solid Water T=Travel Blank WW=Wastewater F=Food SW=Surface Water G=Groundwater O=Other	_	Standard 10	Laboratory Authorization Required for Rush - 15 Day	Composite	Q	Sample Type	Compliance	No. of Containers	11 _ /			//		//		//			NB IO.
Client's Sample Identification	Date	Time	Sample Location	Con	Grab	San	S	ė Š	* \(\frac{1}{2} \)	<u>√</u>				/ /	1.1		4.4	- /	
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Comments / Special Instructions:	10 Y	00 0x	er temp per Emily	5								_							
SAMPLE CONDITION UPON RECEIPT	(Lab Use)		RELINQUIS	HED	ву							S	AMPL	ES RE	CEIVE	D BY	T	Studio	
No. of Containers		1	Sampler Signature & Formula V		X				Date \2/14/19	2 5	Signature		\geq					7/4/12	
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Custody Seals Y	<u> </u>	1 _	Sampler Signature		/	\nearrow			Date		Signature						Date		
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WHITE-LAB YELLOW-CLIENT		J ③	Sampler Printed Name						Time		Printed Name				£		Time		

Environmental Science Corp. (ESC)

12065 Lebanon Rd. Mt. Juliet, TN 37122 Project: Water Analysis

Project Number: ADOT Stormwater 12/14/12

Project Manager: Janice Cozby 12/21/12 15:25

Reported:

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Туре	Date Sampled	Date Received
PHX 121412	2121152-01	Wastewater	Grab	12/14/12 07:37	12/14/12 14:26

Sample Condition Upon Receipt:

Temperature: 11.70 C

All samples were received in acceptable condition unless noted otherwise in the case

narrative.

Case Narrative:

Holding Times: All holding times were met unless otherwise qualified.

QA/QC Criteria: All analyses met method requirements unless otherwise qualified. Certifications: AZ(PHX)0004, AZ(TUC)OOO4, AIHA#102982, CDC ELITE Member.

Accreditation is applicable only to the test methods specified on each scope of accreditation held by LEGEND.

Comments: There were no problems encountered during the processing of the samples, unless otherwise noted.

All samples were analyzed on a "wet" basis unless designated as "dry weight".

Client notified of Fecal detection vi email. 12/17/12 CL

Environmental Science Corp. (ESC)

12065 Lebanon Rd. Mt. Juliet, TN 37122 Project: Water Analysis

Project Number: ADOT Stormwater 12/14/12

Project Manager: Janice Cozby

Reported: 12/21/12 15:25

PHX 121412 (2121152-01) Wastewater (Grab) Sampled: 12/14/12 07:37 Received: 12/14/12 14:26

Analyte	Result	PQL Units	Dilut	ion Batch	Prepared	Analyzed	Method	Notes
	Legend Te	echnical Servi	es of A	Arizona, Inc				
Microbiology								
E. coli, MPN (WW-Colilert)	> 2419.6	1 MPN/10 mL) 1	B2L0417	12/14/12 15:05	12/14/12 15:05	SM 9223B	
Fecal Coliforms, MF	>400	1 CFU/100 mL) 1	B2L0403	12/14/12 15:05	12/14/12 15:05	SM 9222D	A1

Environmental Science Corp. (ESC)

12065 Lebanon Rd. Mt. Juliet, TN 37122 Project: Water Analysis

Project Number: ADOT Stormwater 12/14/12

Project Manager: Janice Cozby

Reported: 12/21/12 15:25

Microbiology - Quality Control Legend Technical Services of Arizona, Inc.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B2L0403 - micro_prep										
Blank (B2L0403-BLK1)				Prepared 8	& Analyzed:	12/14/12				
Fecal Coliforms, MF	<1	1 C	FU/100 ml	L						
Batch B2L0417 - micro_prep										
Blank (B2L0417-BLK1)				Prepared 8	& Analyzed:	12/14/12				
E. coli, MPN (WW-Colilert)	<1	1 M	PN/100 m	L						
Duplicate (B2L0417-DUP1)	So	urce: 2121116-	01	Prepared 8	& Analyzed:	12/14/12				
E. coli, MPN (WW-Colilert)	200	1 M	PN/100 m	L	<1				100	

Environmental Science Corp. (ESC) Project: Water Analysis

12065 Lebanon Rd.Project Number: ADOT Stormwater 12/14/12Reported:Mt. Juliet, TN 37122Project Manager: Janice Cozby12/21/12 15:25

Notes and Definitions

R2 RPD/RSD exceeded the laboratory control limit.

A1 Too numerous to count.

BLK Method Blank

LCS/Dup Laboratory Control Sample/Laboratory Fortified Blank/Duplicate

MS/Dup Matrix Spike/Duplicate

Dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Environmental Science Corp. (ESC) 12065 Lebanon Rd. Mt. Juliet, TN 37122 Project: Water Analysis

Project Number: ADOT Stormwater 12/14/12

Project Manager: Janice Cozby

Reported: 12/21/12 15:25

Laboratory Sample ID:			CHAIN OF	CL	JST	0	DY	RI	EC(OR	D				ŀ					N D s, Inc.	
aransa			☐ 17631 N. 25th Avenue • Ph												•-	www.	,			p.com	
Please Print Clearly			☐ 4585 S. Palo Verde Rd, Ste	423 •	Tucson	, AZ	85714	• (520	0) 327-1	234 • F	ax (520) 327-	0518			Page .		of			
CLIENT INFORMATION Client Name		Address			City					State	Zip		Phone				F	ax Num	nber or 8	Email Addres	₩ 165
ESC Lab Sciences		Project N	55 Lebanon Rd	Co	mact	N/N	4.7	ikhi	r 49		371	ಖ್			757	5-si	38	<u>ک</u>	Co2	Dy es	Cience
ADOT Stormweter		_		30	inic	د	Cor	by					En	nail Re	sults.					ction Limits	-1
SAMPLE TYPE CODES			TURN AROUND TIME Laboratory Authorization					0		$\overline{}$	7	7 7	REQU	ESTI	D AN	IALYS	SES	7	7	77	7
DW=Drinking S=Soil/Solid Water T=Travel Blank			Required for Rush				SIS	(Lab Use Only!)	Tree Color	4	//	//	//	/ /		//	/ /	/	//	/ / /	
WW=Wastewater F=Food SW=Surface Water G=Sludge/Biosolids G=Groundwater	-		0 - 15 Day		edi	2 8	ntaine	ab Us	/5	/ /	//	//	//	/	//	//	/	/ /	/ /	//	
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Sample Identification	Date	Time	Sample Location	S			-		IE/	Ÿ /		4	//	1	//	//	4	4	Ц	No.	
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WHITE-LAB YELLOW-CLIENT		3	Sampler Printed Name					Time		-	ted Name								Date Time		
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Tax I.D. 62-0814289

Est. 1970

John Burton Engineering & Env. Consultants, INC. -AZ 7878 N. 16th Street, Suite 140 Phoenix, AZ 85020

Report Summary

Friday December 28, 2012

Report Number: L611431 Samples Received: 12/15/12 Client Project: 308032.20

Description: ADOT Stormwater

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Mark W. Beasley , ECC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197, FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704/BIO041, ND - R-140. NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1, TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

This report may not be reproduced, except in full, without written approval from ESC Lab Sciences. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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REPORT OF ANALYSIS

December 28, 2012

Engineering & Env. Consultants, INC 7878 N. 16th Street, Suite 140 Phoenix, AZ 85020

ESC Sample # : L611431-01

Date Received : December 15, 2012 : ADOT Stormwater Description

Site ID :

Sample ID : PHX 121412

Project #: 308032.20

Collected By : JB

12/14/12 07:37 Collection Date :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloride Nitrate Nitrite Sulfate	16. 2.5 0.34 26.	1.0 0.10 0.10 5.0	mg/l mg/l mg/l mg/l	300.0 300.0 300.0 300.0	12/15/12 12/15/12 12/15/12 12/15/12	1 1 1
BOD	68.0	5.00	mg/l	SM5210B	12/20/12	1
COD	420	10.	mg/l	410.4	12/19/12	1
Hardness, Total (mg/L as CaCO3)	130	30.	mg/l	130.1	12/19/12	1
MBAS	0.89	0.10	mg/l	5540C	12/15/12	1
Ammonia Nitrogen	4.1	0.10	mg/l	350.1	12/20/12	1
Нд	7.2		su	4500H-B	12/17/12	1
Phosphate,Ortho	1.8	0.50	mg/l	4500P-E	12/18/12	20
Phosphorus, Total	0.92	0.10	mg/l	365.4	12/21/12	1
Specific Conductance	320		umhos/cm	120.1	12/19/12	1
Kjeldahl Nitrogen, TKN	9.1	0.10	mg/l	351.2	12/22/12	1
Turbidity	130	0.10	NTU	SM2130B	12/15/12	1
Dissolved Solids	310	10.	mg/l	2540C	12/21/12	1
Suspended Solids	53.	1.0	mg/l	2540D	12/21/12	1
Mercury	BDL	0.00020	mg/l	245.1	12/17/12	1
Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Copper Lead Nickel Selenium	BDL BDL 0.13 BDL BDL 41. 0.023 0.090 0.0084 0.025 BDL	0.020 0.020 0.0050 0.0020 0.0050 0.50 0.	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	200.7 200.7 200.7 200.7 200.7 200.7 200.7 200.7 200.7 200.7 200.7	12/24/12 12/24/12 12/23/12 12/23/12 12/23/12 12/23/12 12/23/12 12/23/12 12/23/12 12/23/12 12/23/12 12/23/12	1 1 1 1 1 1 1 1 1 1

BDL - Below Detection Limit Det. Limit - Practical Quantitation Limit(PQL) L611431-01 (PH) - 7.2@16.1c



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REPORT OF ANALYSIS

December 28, 2012

John Burton Engineering & Env. Consultants, INC 7878 N. 16th Street, Suite 140 Phoenix, AZ 85020

ESC Sample # : L611431-01

Date Received : December 15, 2012 Description : ADOT Stormwater

Site ID :

Sample ID : PHX 121412

Project #: 308032.20

Collected By : JB Collection Date : 12/14/12 07:37

Parameter	Result	Det. Limit	Units	Method	Date Dil.
Silver	BDL	0.010	mg/l	200.7	12/23/12 1
Sodium	15.	0.50	mg/l	200.7	12/23/12 1
Zinc	0.25	0.030	mg/l	200.7	12/23/12 1
Benzene	BDL	0.00050	mg/l	8021B	12/17/12 1
Toluene	BDL	0.0050	mg/1	8021B	12/17/12 1
Ethylbenzene	BDL	0.00050	mg/l	8021B	12/17/12 1
Total Xylene	BDL	0.0015	mg/l	8021B	12/17/12 1
Surrogate Recovery(%)					
a,a,a-Trifluorotoluene(PID)	109.		% Rec.	8021B	12/17/12 1
Pesticides					
Aldrin	BDL	0.000050	mg/l	8081 A	12/20/12 1
Alpha BHC	BDL	0.000050	mg/l	8081 A	12/20/12 1
Beta BHC	BDL	0.000050	mg/l	8081 A	12/20/12 1
Delta BHC	BDL	0.000050	mg/l	8081 A	12/20/12 1
Gamma BHC	BDL	0.000050	mg/l	8081 A	12/20/12 1
Chlordane	BDL	0.00050	mg/1	8081 A	12/20/12 1
4,4-DDD	BDL	0.000050	mg/1	8081 A	12/20/12 1
4,4-DDE	BDL	0.000050	mg/l	8081 A	12/20/12 1
4,4-DDT	BDL	0.000050	mg/l	8081 A	12/20/12 1
Dieldrin	BDL	0.000050	mg/l	8081 A	12/20/12 1
Endosulfan I	BDL	0.000050	mg/l	8081 A	12/20/12 1
Endosulfan II	BDL	0.000050	mg/l	8081 A	12/20/12 1
Endosulfan sulfate	BDL	0.000050	mg/l	8081 A	12/20/12 1
Endrin	BDL	0.000050	mg/l	8081 A	12/20/12 1
Endrin aldehyde	BDL	0.000050	mg/l	8081 A	12/20/12 1
Endrin ketone	BDL	0.000050	mg/l	8081 A	12/20/12 1
Hexachlorobenzene	BDL	0.000050	mg/l	8081 A	12/20/12 1
Heptachlor	BDL	0.000050	mg/l	8081 A	12/20/12 1
Heptachlor epoxide	BDL	0.000050	mg/l	8081 A	12/20/12 1
Methoxychlor	BDL	0.000050	mg/1	8081 A	12/20/12 1
Toxaphene	BDL	0.00050	mq/1	8081 A	12/20/12 1
Pesticides Surrogates	םשם	0.00050	1119/1	0001 A	12/20/12 1
Decachlorobiphenyl	48.4		% Rec.	8081 A	12/20/12 1
Tetrachloro-m-xylene	74.1		% Rec.	8081 A	12/20/12 1
recraciiioro-m-xyrene	74.1		% Rec.	0001 A	12/20/12 1
Base/Neutral Extractables	DDI	0.0010	/ 3	00709	10/10/10 1
Acenaphthene	BDL	0.0010	mg/l	8270C	12/18/12 1
Acenaphthylene	BDL	0.0010	mg/l	8270C	12/18/12 1
Anthracene	BDL	0.0010	mg/1	8270C	12/18/12 1
Benzidine	BDL	0.010	mg/l	8270C	12/18/12 1
Benzo(a)anthracene	BDL	0.0010	mg/1	8270C	12/18/12 1
Benzo(b)fluoranthene	BDL	0.0010	mg/1	8270C	12/18/12 1

BDL - Below Detection Limit Det. Limit - Practical Quantitation Limit(PQL) L611431-01 (PH) - 7.2@16.1c



John Burton

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REPORT OF ANALYSIS

December 28, 2012

Engineering & Env. Consultants, INC 7878 N. 16th Street, Suite 140 Phoenix, AZ 85020

ESC Sample # : L611431-01

Date Received : December 15, 2012 Description : ADOT Stormwater

Site ID :

Sample ID : PHX 121412

Project #: 308032.20

Collected By : JB Collection Date : 12/14/12 07:37

Parameter	Result	Det. Limit	Units	Method	Date I	Dil.
Benzo(k)fluoranthene	BDL	0.0010	mq/l	8270C	12/18/12 1	1
Benzo(g,h,i)perylene	BDL	0.0010	mg/l	8270C	12/18/12	
Benzo(a)pyrene	BDL	0.0010	mg/l	8270C	12/18/12	
Bis(2-chlorethoxy)methane	BDL	0.010	mg/l	8270C	12/18/12	
Bis(2-chloroethyl)ether	BDL	0.010	mg/l	8270C	12/18/12	
Bis(2-chloroisopropyl)ether	BDL	0.010	mg/l	8270C	12/18/12	
4-Bromophenyl-phenylether	BDL	0.010	mg/l	8270C	12/18/12	
2-Chloronaphthalene	BDL	0.0010	mg/l	8270C	12/18/12	
4-Chlorophenyl-phenylether	BDL	0.010	mg/l	8270C	12/18/12	
Chrysene	BDL	0.0010	mg/l	8270C	12/18/12	
Dibenz(a,h)anthracene	BDL	0.0010	mg/l	8270C	12/18/12	
3,3-Dichlorobenzidine	BDL	0.010	mg/l	8270C	12/18/12	
2,4-Dinitrotoluene	BDL	0.010	mg/l	8270C	12/18/12	
2,6-Dinitrotoluene	BDL	0.010	mg/l	8270C	12/18/12	
Fluoranthene	BDL	0.0010	mg/1	8270C	12/18/12	
Fluorene	BDL	0.0010	mg/l	8270C	12/18/12	
Hexachlorobenzene	BDL	0.0010	mg/1	8270C	12/18/12	
Hexachloro-1,3-butadiene	BDL	0.010	mg/l	8270C	12/18/12	
Hexachlorocyclopentadiene	BDL	0.010	mg/1	8270C	12/18/12	
Hexachloroethane	BDL	0.010	mg/l	8270C	12/18/12	
Indeno(1,2,3-cd)pyrene	BDL	0.0010	mg/l	8270C	12/18/12	
Isophorone	BDL	0.010	mg/l	8270C	12/18/12	
Naphthalene	BDL	0.0010	mg/l	8270C	12/18/12	
Nitrobenzene	BDL	0.010	mg/l	8270C	12/18/12	
n-Nitrosodimethylamine	BDL	0.010	mg/l	8270C	12/18/12	
n-Nitrosodiphenylamine	BDL	0.010	mg/l	8270C	12/18/12	
n-Nitrosodi-n-propylamine	BDL	0.010	ma/l	8270C	12/18/12	
Phenanthrene	BDL	0.0010	mg/1	8270C	12/18/12	
Benzylbutyl phthalate	BDL	0.0010	mg/l	8270C	12/18/12	
Bis(2-ethylhexyl)phthalate	0.0024	0.0010	mg/1	8270C	12/18/12	
Di-n-butyl phthalate	BDL	0.0010	mg/l	8270C	12/18/12	
Diethyl phthalate	0.0012	0.0010	mg/1	8270C	12/18/12	
Dimethyl phthalate	BDL	0.0010	mg/l	8270C	12/18/12	
Di-n-octyl phthalate	BDL	0.0010	mg/1	8270C	12/18/12	
Pyrene	BDL	0.0010	mg/l	8270C	12/18/12	
1,2,4-Trichlorobenzene	BDL	0.010	mg/1	8270C	12/18/12	
Acid Extractables		0.010	11197 =	02700	12/10/12	-
4-Chloro-3-methylphenol	BDL	0.010	mq/l	8270C	12/18/12	1
2-Chlorophenol	BDL	0.010	mg/l	8270C	12/18/12	
2,4-Dichlorophenol	BDL	0.010	mg/1	8270C	12/18/12	
2,4-Dimethylphenol	BDL	0.010	mg/l	8270C	12/18/12	
4,6-Dinitro-2-methylphenol	BDL	0.010	mg/l	8270C	12/18/12	
2,4-Dinitrophenol	BDL	0.010	mg/l	8270C	12/18/12	
2-Nitrophenol	BDL	0.010	mg/l	8270C	12/18/12	
7 MICLOPHEHOI	עעע	0.010	ilig/ I	02/00	12/10/12	L

BDL - Below Detection Limit Det. Limit - Practical Quantitation Limit(PQL) L611431-01 (PH) - 7.2@16.1c



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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

December 28, 2012

Engineering & Env. Consultants, INC 7878 N. 16th Street, Suite 140

Phoenix, AZ 85020

ESC Sample # : L611431-01

Date Received : December 15, 2012 Description : ADOT Stormwater

Site ID :

Sample ID : PHX 121412 Project #: 308032.20

Collected By :

Collection Date : 12/14/12 07:37

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
4-Nitrophenol	BDL	0.010	mq/l	8270C	12/18/12	1
Pentachlorophenol	BDL	0.010	mg/l	8270C	12/18/12	ī
Phenol	BDL	0.010	mg/l	8270C	12/18/12	1
2,4,6-Trichlorophenol	BDL	0.010	mg/l	8270C	12/18/12	1
Surrogate Recovery						
2-Fluorophenol	38.3		% Rec.	8270C	12/18/12	1
Phenol-d5	26.7		% Rec.	8270C	12/18/12	1
Nitrobenzene-d5	98.2		% Rec.	8270C	12/18/12	1
2-Fluorobiphenyl	86.3		% Rec.	8270C	12/18/12	1
2,4,6-Tribromophenol	104.		% Rec.	8270C	12/18/12	1
p-Terphenyl-d14	112.		% Rec.	8270C	12/18/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted. This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 12/28/12 10:12 Printed: 12/28/12 10:12

L611431-01 (PH) - 7.2@16.1c



John Burton

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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

December 28, 2012

Site ID :

Engineering & Env. Consultants, INC 7878 N. 16th Street, Suite 140

Phoenix, AZ 85020

December 15, 2012 Date Received :

Description ADOT Stormwater

Sample ID PHX 121412

Collected By

Collection Date : 12/14/12 07:37 ESC Sample # : L611431-02

Project # : 308032.20

Result Det. Limit Units Method Dil. Parameter Date 0.0050 4500CN-E 12/19/12 Cyanide BDL 1 mg/1BDL 5.0 Oil & Grease (Hexane Extr) mg/11664A 12/18/12 1 TPH - Oil & Grease BDL 5.0 mg/l1664A 12/21/12 1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted. This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 12/28/12 10:12 Printed: 12/28/12 10:13

Attachment A List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L611431-01	WG628366	SAMP	MBAS	R2479037	J6
	WG628395	SAMP	рН	R2479981	T8
	WG628799	SAMP	Phosphate,Ortho	R2483437	Q
	WG628475	SAMP	Endrin aldehyde	R2487857	J4
L611431-02	WG628860	SAMP	Cyanide	R2486079	W
	WG628528	SAMP	Oil & Grease (Hexane Extr)	R2481797	L3
	WG629417	SAMP	TPH - Oil & Grease	R2490321	L3

Attachment B Explanation of QC Qualifier Codes

Qualifier	Meaning
J4	The associated batch QC was outside the established quality control range for accuracy.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low
L3	(ESC) Sample reanalysis and/or spiking could not be performed due to lack of additional volume.
Q	(ESC) Sample held beyond the accepted holding time.
Т8	(ESC) - Additional method/sample information: Sample(s) received past/too close to holding time expiration.
W	(ESC)-The laboratory analysis was from a sample collected in an improper container

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

- Accuracy The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision The agreement between a set of samples or between duplicate samples.

 Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed 12/28/12 at 10:13:01

TSR Signing Reports: 288 R5 - Desired TAT

Baker Exxon Proj 105022.01 Ken & Mel's Proj 105022.02 MCAA Proj 305007.05 -ALL require TO-15+GRO on ALL AIR SAMPLES ENGENVPAZ-122012S NO CHARGE TBs

Sample: L611431-01 Account: ENGENVPAZ Received: 12/15/12 10:00 Due Date: 12/26/12 00:00 RPT Date: 12/28/12 10:12

Sample: L611431-02 Account: ENGENVPAZ Received: 12/15/12 10:00 Due Date: 12/26/12 00:00 RPT Date: 12/28/12 10:12



Engineering & Env. Consultants, INC. -AZ John Burton 7878 N. 16th Street, Suite 140

Phoenix, AZ 85020

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Tax I.D. 62-0814289

Est. 1970

Quality Assurance Report Level II

L611431

December 28, 2012

		T - 1 t	Dll-		
Analyte	Result	Laboratory Units	* Rec	Limit	Batch Date Analyzed
Analyce	Result	UIIICS	% Kec	DIMIC	Batti Date Analy Zeu
MBAS	< .1	mg/l			WG628366 12/15/12 13:54
Chloride	< 1	mg/l			WG628362 12/15/12 07:43
Nitrate	< .1	mg/l			WG628362 12/15/12 07:43
Nitrite	< .1	mg/l			WG628362 12/15/12 07:43
Sulfate	< 5	mg/l			WG628362 12/15/12 07:4
Turbidity	< .1	NTU			WG628365 12/15/12 14:50
Mercury	< .0002	mg/l			WG628451 12/17/12 11:53
Oil & Grease (Hexane Extr)	< 5	mg/l			WG628528 12/18/12 06:1
Day - and	. 0005				MGC00425 10/15/10 00:34
Benzene	< .0005	mg/l			WG628435 12/17/12 02:36
Ethylbenzene	< .0005	mg/l			WG628435 12/17/12 02:36
Toluene	< .005 < .0015	mg/l			WG628435 12/17/12 02:36
Total Xylene	< .0015	mg/l % Rec.	105.5	55-122	WG628435 12/17/12 02:36 WG628435 12/17/12 02:36
a,a,a-Trifluorotoluene(PID)		% Rec.	105.5	55-122	WG628435 12/17/12 02:36
1,2,4-Trichlorobenzene	< .01	mg/l			WG628471 12/17/12 19:30
2,4,6-Trichlorophenol	< .01	mg/l			WG628471 12/17/12 19:30
2,4-Dichlorophenol	< .01	mg/l			WG628471 12/17/12 19:30
2,4-Dimethylphenol	< .01	mg/l			WG628471 12/17/12 19:30
2,4-Dinitrophenol	< .01	mg/l			WG628471 12/17/12 19:30
2,4-Dinitrotoluene	< .01	mg/l			WG628471 12/17/12 19:30
2,6-Dinitrotoluene	< .01	mg/l			WG628471 12/17/12 19:30
2-Chloronaphthalene	< .001	mg/l			WG628471 12/17/12 19:30
2-Chlorophenol	< .01	mg/l			WG628471 12/17/12 19:30
2-Nitrophenol	< .01	mg/l			WG628471 12/17/12 19:30
3,3-Dichlorobenzidine	< .01	mg/l			WG628471 12/17/12 19:30
4,6-Dinitro-2-methylphenol	< .01	mg/l			WG628471 12/17/12 19:30
4-Bromophenyl-phenylether	< .01	mg/l			WG628471 12/17/12 19:30
4-Chloro-3-methylphenol	< .01	mg/l			WG628471 12/17/12 19:30
4-Chlorophenyl-phenylether	< .01	mg/l			WG628471 12/17/12 19:30
4-Nitrophenol	< .01	mg/l			WG628471 12/17/12 19:30
Acenaphthene	< .001	mg/l			WG628471 12/17/12 19:30
Acenaphthylene	< .001	mg/l			WG628471 12/17/12 19:30
Anthracene	< .001	mg/l			WG628471 12/17/12 19:30
Benzidine	< .05	mg/l			WG628471 12/17/12 19:30
Benzo(a)anthracene	< .001	mg/l			WG628471 12/17/12 19:30
Benzo(a)pyrene	< .001	mg/l			WG628471 12/17/12 19:30
Benzo(b)fluoranthene	< .001	mg/l			WG628471 12/17/12 19:30
Benzo(g,h,i)perylene	< .001	mg/l			WG628471 12/17/12 19:30
Benzo(k)fluoranthene	< .001	mg/l			WG628471 12/17/12 19:30
Benzylbutyl phthalate	< .001	mg/l			WG628471 12/17/12 19:30
Bis(2-chlorethoxy)methane	< .01	mg/l			WG628471 12/17/12 19:30
Bis(2-chloroethyl)ether	< .01	mg/l			WG628471 12/17/12 19:30
Bis(2-chloroisopropyl)ether	< .01	mg/l			WG628471 12/17/12 19:30
Bis(2-ethylhexyl)phthalate	< .001	mg/l			WG628471 12/17/12 19:30
Chrysene	< .001	mg/l			WG628471 12/17/12 19:30
Di-n-butyl phthalate Di-n-octyl phthalate	< .001 < .001	mg/l mg/l			WG628471 12/17/12 19:30 WG628471 12/17/12 19:30
Dibenz(a,h)anthracene	< .001	mg/l			WG628471 12/17/12 19:30 WG628471 12/17/12 19:30
* Derformance of this Analyte			omio		113020111 12/11/12 19:30

^{*} Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



Engineering & Env. Consultants, INC. -AZ John Burton 7878 N. 16th Street, Suite 140

Phoenix, AZ 85020

12065 Lebanon Rd. Mt. Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Quality Assurance Report Level II

L611431

December 28, 2012

		Laboratory	Blank			
Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Diethyl phthalate	< .001	mg/l			WG628471	l 12/17/12 19:3
Dimethyl phthalate	< .001	mg/l			WG628471	L 12/17/12 19:3
Fluoranthene	< .001	mg/l			WG628471	L 12/17/12 19:3
Fluorene	< .001	mg/l			WG628471	1 12/17/12 19:3
Hexachloro-1,3-butadiene	< .01	mg/l			WG628471	L 12/17/12 19:3
Hexachlorobenzene	< .001	mg/l			WG628471	L 12/17/12 19:3
Hexachlorocyclopentadiene	< .01	mg/l			WG628471	L 12/17/12 19:3
Hexachloroethane	< .01	mg/l			WG628471	L 12/17/12 19:3
Indeno(1,2,3-cd)pyrene	< .001	mg/l			WG628471	L 12/17/12 19:3
Isophorone	< .01	mg/l			WG628471	1 12/17/12 19:3
n-Nitrosodi-n-propylamine n-Nitros	< .01	mg/l			WG628471	l 12/17/12 19:3

Company Name/Address			Alternate Bi	lling	·		An	alysis/C	ontaine	r/Preserva	tive	<u> </u>	Page I of I
Company Name/Address EEC 7878 N. 1654 Rucenia, AZ Project Description: ADDT SH	82050		Report to:	J- Bue ter Bicter @e City/State Colle Fut Ar Lab Project #	ected:		An	alysis/C	ontaine	r/Preserva	tive	Prepared by: ENVIRO SCIEN 12065 Leban Mt. Juliet TN Phone (615)7 Phone (800)	CE CORP on Road 37122 758-5858
(eg2-248-7002	1								14	7.V		. FAX (615	
Collected by: J. Buttury	30803			P.O.#								CoCode	(lab use only)
Collected by(signature). 7. 3 Packed on Ice NY_X		ab MUST be lext Day WO Day	100%	Date Result	lo_X_Yes	No of		3		1		Template/Prelogin Shipped Via:	
Sample ID	Comp/Grab	Matrix	Depth	Date	Time	Cntrs		1				Remarks/contaminant	Sample # (lab only)
Phy 121412	Canb &	SW		12/14/12				<u> </u>					U611431-01
Matrix: SS-Soil/Solid GW-Ground	water WW-Wa	stewater [DW-Drinking \	Water OT-O	ther		4°F (pH	Temp Flow	 Other
Relinquished by:(Signature) Relinquished by:(Signature)	Date: 12-/4-12 Date:	Time: - /33/ Time:	Received by:(Vanu			Samples i Temp		/ia: FedE	λ_UPS_O	eived:	Condition	(lab use only)
Relinquished by:(Signature):	Date:	Time ⁻	Received for	lab by: (Signatur	/		Date:	5/12		Time:	<u>6</u>	CoC Seals Intact _ pH Checked: くようは	Y N n/a



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Est. 1970

John Burton Engineering & Env. Consultants, INC. -AZ 7878 N. 16th Street, Suite 140 Phoenix, AZ 85020

Report Summary

Thursday December 27, 2012

Report Number: L611442 Samples Received: 12/15/12 Client Project: 308032.20

Description: ADOT Stormwater

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Mark W. Beasley , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197, FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704/BIO041, ND - R-140. NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1, TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

This report may not be reproduced, except in full, without written approval from ESC Lab Sciences. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



John Burton

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Est. 1970

REPORT OF ANALYSIS

December 27, 2012

Engineering & Env. Consultants, INC 7878 N. 16th Street, Suite 140

Phoenix, AZ 85020

ESC Sample # : L611442-01

Project #: 308032.20

Site ID :

Date Received : December 15, 2012

Description : ADOT Stormwater

Sample ID PHX 121412

Collected By

Collection Date : 12/14/12 07:37

Result Det. Limit Units Method Dil. Parameter Date col/100ml SM9222D Coliform, fecal >400 12/14/12 1 E.Coli >2400 1.0 MPN/100ml 9223B 12/14/12 1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted. This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 12/27/12 13:41 Printed: 12/27/12 13:42

L611442-01 (COLIFORM, FECAL) - subcontracted to Legend Techn Services L611442-01 (COLILERT) - subcontracted to Legend Techn Services

Summary of Remarks For Samples Printed 12/27/12 at 13:42:12

TSR Signing Reports: 288 R5 - Desired TAT

Baker Exxon Proj 105022.01 Ken & Mel's Proj 105022.02 MCAA Proj 305007.05 -ALL require TO-15+GRO on ALL AIR SAMPLES ENGENVPAZ-122012S NO CHARGE TBs

Sample: L611442-01 Account: ENGENVPAZ Received: 12/15/12 10:00 Due Date: 12/21/12 00:00 RPT Date: 12/27/12 13:41 Subbed to Legendpaz direct jlc 12/17/12 PO#S17495



Phoenix, AZ 85020

Engineering & Env. Consultants, INC. -AZ John Burton 7878 N. 16th Street, Suite 140 $\,$

Quality Assurance Report Level II

L611442

12065 Lebanon Rd. Mt. Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

December 27, 2012

Batch number /Run number / Sample number cross reference

WG628557: R2493142: L611442-01

 $^{^{\}star}$ * Calculations are performed prior to rounding of reported values.

^{*} Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



Engineering & Env. Consultants, INC. -AZ John Burton 7878 N. 16th Street, Suite 140

Phoenix, AZ 85020

Quality Assurance Report Level II

L611442

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

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December 27, 2012

*	Laboratory Sample ID:
	66/1442

CHAIN OF CUSTODY RECORD



☐ 17631 N. 25th Avenue • Phoenix, AZ 85023 • (602) 324-6100 • Fax (602) 324-6101 ☐ 4585 S. Palo Verde Rd, Ste 423 • Tucson, AZ 85714 • (520) 327-1234 • Fax (520) 327-0518

Page	of	

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CLIENT INFORMATION					-					tate	Zip	Phone				Fax Nur	mber or E	mail Addre	ss
Client Name		Address	0.4		City	•	\	\			1 '			70-0.	500			by es	
950 Lab Sciences		1300	5 Lebanon Rd			10r	W.	7	1 43 de	$\overline{\mathcal{N}}$	37122		Results		-283	<u> </u>	Report [7 FDD	$\exists \mathbb{C}$
Project Name		Project Nu	mber		ntact		\mathcal{C}	۸ ., .		P.	.U, No.			_				_	긺
Project Name ADOT Stormwate				7	ini	(6		OC.	0/			Em:	ail Resu		Vere		cial Deter	ction Limits	뷕
SAMPLE TYPE CODES		1	URN AROUND TIME							_	, , , , , , , , , , , , , , , , , , , 	KEWUI	<u> </u>	ANA (<u> </u>	\overline{T}	T^{-}	TT	7
DW=Drinking S=Soit/Solid Water T=Travel Blank WW=Wastewater F=Food SW=Surface Water G=Groundwater O=Other	_	Standard 10	Laboratory Authorization Required for Rush - 15 Day	Composite	Q	Sample Type	Compliance	No. of Containers	11 _ /			//		//		//			NB IO.
Client's Sample Identification	Date	Time	Sample Location	Con	Grab	San	S	ė Š	* \(\frac{1}{2} \)	<u>√</u>				/ /	1.1		4.4	- /	
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10 ENSURE CO	MATELIC	JN UF A	NALTSIS, SAMPLES MUST BE KE					<u> </u>	UNIOUNG							112200000000000000000000000000000000000			
Comments / Special Instructions:	10 Y	00 0x	er temp per Emily	5								_							
SAMPLE CONDITION UPON RECEIPT	(Lab Use)		RELINQUIS	HED	ву							S	AMPL	ES RE	CEIVE	D BY	T	Studio	
No. of Containers		1	Sampler Signature & Formula V		X				Date \2/14/19	2 5	Signature		\geq					7/4/12	
Temperature 11.7	•	0	Sampler Printed Name Swar (Va) (. 69	6.7 L.		$\overline{}$			Time 1946		Printed Name) e	com	Q		Time	446	
Custody Seals Y	<u> </u>	1 _	Sampler Signature		/	\nearrow			Date		Signature						Date		
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WHITE-LAB YELLOW-CLIENT		J ③	Sampler Printed Name						Time		Printed Name				£		Time		



21 December 2012

Janice Cozby
Environmental Science Corp. (ESC)
12065 Lebanon Rd.
Mt. Juliet, TN 37122

RE: Water Analysis

Laboratory Work Order No.: 2121152

Legend Technical Services of Arizona, Inc. is pleased to provide the enclosed analytical results for the aforementioned project. These results relate only to the items tested. This cover letter and the accompanying pages represent the full report for these analyses and should only be reproduced in full. Samples for this project were received by the laboratory on 12/14/12 14:26.

The samples were processed in accordance with the Chain of Custody document and the results presented relate only to the samples tested. The Chain of Custody is considered part of this report.

All samples will be retained by LEGEND for 30 days from the date of this report and then discarded unless other arrangements are made.

This entire report was reviewed and approved for release by the undersigned. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

LEGEND TECHNICAL SERVICES OF ARIZONA, INC.

Cory Lund

Client Services Representative

C-1/-

(602) 324-6100

This laboratory report is confidential and is intended for the sole use of LEGEND and it's client.

Environmental Science Corp. (ESC)

12065 Lebanon Rd. Mt. Juliet, TN 37122 Project: Water Analysis

Project Number: ADOT Stormwater 12/14/12

Project Manager: Janice Cozby 12/21/12 15:25

Reported:

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Туре	Date Sampled	Date Received
PHX 121412	2121152-01	Wastewater	Grab	12/14/12 07:37	12/14/12 14:26

Sample Condition Upon Receipt:

Temperature: 11.70 C

All samples were received in acceptable condition unless noted otherwise in the case

narrative.

Case Narrative:

Holding Times: All holding times were met unless otherwise qualified.

QA/QC Criteria: All analyses met method requirements unless otherwise qualified. Certifications: AZ(PHX)0004, AZ(TUC)OOO4, AIHA#102982, CDC ELITE Member.

Accreditation is applicable only to the test methods specified on each scope of accreditation held by LEGEND.

Comments: There were no problems encountered during the processing of the samples, unless otherwise noted.

All samples were analyzed on a "wet" basis unless designated as "dry weight".

Client notified of Fecal detection vi email. 12/17/12 CL

Environmental Science Corp. (ESC)

12065 Lebanon Rd. Mt. Juliet, TN 37122 Project: Water Analysis

Project Number: ADOT Stormwater 12/14/12

Project Manager: Janice Cozby

Reported: 12/21/12 15:25

PHX 121412 (2121152-01) Wastewater (Grab) Sampled: 12/14/12 07:37 Received: 12/14/12 14:26

Analyte	Result	PQL Units	Dilut	ion Batch	Prepared	Analyzed	Method	Notes
	Legend Te	echnical Servi	es of A	Arizona, Inc				
Microbiology								
E. coli, MPN (WW-Colilert)	> 2419.6	1 MPN/10 mL) 1	B2L0417	12/14/12 15:05	12/14/12 15:05	SM 9223B	
Fecal Coliforms, MF	>400	1 CFU/100 mL) 1	B2L0403	12/14/12 15:05	12/14/12 15:05	SM 9222D	A1

Environmental Science Corp. (ESC)

12065 Lebanon Rd. Mt. Juliet, TN 37122 Project: Water Analysis

Project Number: ADOT Stormwater 12/14/12

Project Manager: Janice Cozby

Reported: 12/21/12 15:25

Microbiology - Quality Control Legend Technical Services of Arizona, Inc.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B2L0403 - micro_prep										
Blank (B2L0403-BLK1)				Prepared 8	& Analyzed:	12/14/12				
Fecal Coliforms, MF	<1	1 C	FU/100 m	L						
Batch B2L0417 - micro_prep										
Blank (B2L0417-BLK1)				Prepared 8	& Analyzed:	12/14/12				
E. coli, MPN (WW-Colilert)	<1	1 M	PN/100 m	L						
Duplicate (B2L0417-DUP1)	So	urce: 2121116-	01	Prepared 8	& Analyzed:	12/14/12				
E. coli, MPN (WW-Colilert)	200	1 M	PN/100 m	L	<1				100	

Environmental Science Corp. (ESC) Project: Water Analysis

12065 Lebanon Rd.Project Number: ADOT Stormwater 12/14/12Reported:Mt. Juliet, TN 37122Project Manager: Janice Cozby12/21/12 15:25

Notes and Definitions

R2 RPD/RSD exceeded the laboratory control limit.

A1 Too numerous to count.

BLK Method Blank

LCS/Dup Laboratory Control Sample/Laboratory Fortified Blank/Duplicate

MS/Dup Matrix Spike/Duplicate

Dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

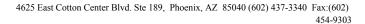
Environmental Science Corp. (ESC) 12065 Lebanon Rd. Mt. Juliet, TN 37122 Project: Water Analysis

Project Number: ADOT Stormwater 12/14/12

Project Manager: Janice Cozby

Reported: 12/21/12 15:25

Laboratory Sample ID:			CHAIN OF	CL	JST	0	DY	'R	EC	OR	D				•					N D s, Inc.	
aransa			☐ 17631 N. 25th Avenue • Ph												•	www.	,			p.com	
Please Print Clearly			☐ 4585 S. Palo Verde Rd, Ste	423 •	Tucsor	n, Az	Z 8571	4 • (52	0) 327-1	234 • F	ax (520) 327-0)518		F	Page _		0			-
CLIENT INFORMATION Client Name	П	Address			City					State	Zip		Phone				F	ax Nun	nber or	Email Addres	× 165
Project Name		Project N	5 Lebanon Rd	Co	mtact (V	4.	اندا	et 7		371	ವ್ದ			758	5-58	38	ذ و	Co'S Report I	DY EDD	C1010
ADOT Stormweter		-		30	mic	٤	Co	ibl					Em	ail Res	ults					ction Limits	_
SAMPLE TYPE CODES			TURN AROUND TIME Laboratory Authorization					0		\Box	7	7 7	REQU	ESTE	D AN	ALYS	SES	7	7	77	7
DW=Drinking S=Soil/Solid Water T=Travel Blank			Required for Rush				SIS	(Lab Use Only!)	Feet Color	/ع	/ /		//	//		//	/ /	/		/ / /	
WW=Wastewater F=Food SW=Surface Water G=Sludge/Biosolids G=Groundwater	_		0 - 15 Day		9) Abe	oe	ab Us	/5	<i>]</i> /	//	//	//	/	/ /	//		/ /	/ /	//	
O=Other	 	Other		Composite	Grab Sample Type	aldı.	Compliance No. of Containers	7	14/	100	//	//	//	/ /		//	/ /			/ / LAI	
Sample Identification	Date	Time	Sample Location	S			_	-	/E	4		4	//	_	//	4	4	_	//	NO.).
Phx 121412	19/14/15	0737		1	Xμ	3	ó	4	$\times \mid X$	4	+	\sqcup	+	+	\vdash	+	-	-	Н	101	4
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			NALYSIS, SAMPLES MUST BE RE			_			OURS	PRIC	R TO	THE	HOLE	TIM	E EX	PIRA	TIO	N			
Comments / Special Instructions:	C 70 YC	71/ PI	ver temp per Emily	كير	याम	110	2 %	9													\dashv
SAMPLE CONDITION UPON RECEIPT	(Lab Use)		RELINQUIS	HED	BY						\$ 27.		SA	AMPL	ES RI	ECEI	VED E	BY		Torres	
No. of Containers 2	. —	1	Sampler Signature Smult	2) _	_		Date Time	12/14/15 1 31-1 5		ted Name	1		>	cem	0			Date Time 1	14112 146 6	HAID
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WHITE-LAB YELLOW-CLIENT	N	3	Sampler Printed Name					Time		-	ted Name								Date Time		-
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LABORATORY REPORT

Prepared For: Engineering and Environmental Consultants Phoenix Project: 308032.20

7878 N. 16th Street, Suite 140

Phoenix, AZ 85020 Attention: John Burton

Sampled: 12/14/12 Received: 12/17/12

Issued: 12/31/12 09:02

NELAP #01109CA / AZ100001 Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID CLIENT ID MATRIX
PVL1139-01 ADOT-NOG-AUTO-G Water

SAMPLE RECEIPT: Samples were received intact, at 2°C, on ice and with chain of custody documentation.

HOLDING TIMES: Not all holding times were met. Results were qualified where the sample analysis did not occur within

method specified holding time requirements.

Cyanide samples are tested for the presence of sulfide within 24 hrs of sampling. The sample requiring

cyanide was received and tested after the 24 hr period.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

ADDITIONAL

INFORMATION: N1-This analyte was reported as ND based on the "total" result of ND. No additional analysis was

performed.

Reviewed By:

TestAmerica Phoenix

Kylie Emily Project Manager



4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Engineering and Environmental Consultants Phoenix Project ID: 308032.20

7878 N. 16th Street, Suite 140

Phoenix, AZ 85020

Report Number: PVL1139

Sampled: 12/14/12

Received: 12/17/12

Attention: John Burton

HEXANE EXTRACTABLE MATERIAL BY EPA METHOD 1664A

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Oualifiers
J		24,01	2	110,0010	1 40001	2307 110000	1111111,204	Quantities
Sample ID: PVL1139-01 (ADOT-NOG-	AUTO-G - Water)							
Reporting Units: mg/l								
N-Hexane Extractable (HEM)	EPA 1664A	12L0909	5.0	5.7	1	12/24/2012	12/24/2012	
N-Hexane Extractable Silica Gel Treated	EPA 1664A SGT	12L0909	10	ND	1	12/24/2012	12/24/2012	N1
(SGT)								



Sampled: 12/14/12

454-9303

Engineering and Environmental Consultants Phoenix

Project ID: 308032.20

7878 N. 16th Street, Suite 140

Phoenix, AZ 85020 Report Number: PVL1139 Received: 12/17/12

Attention: John Burton

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVL1139-01 (ADOT-NOG-AUT	O-G - Water)							
Reporting Units: mg/l Cyanide, Total	SM 4500CN-E	12L0728	0.050	ND	1	12/18/2012	12/18/2012	



454-9303

Engineering and Environmental Consultants Phoenix

Project ID: 308032.20

7878 N. 16th Street, Suite 140

Sampled: 12/14/12 Phoenix, AZ 85020 Report Number: PVL1139 Received: 12/17/12

Attention: John Burton

MICROBIOLOGICALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVL1139-01 (ADOT-NOG-AUT Reporting Units: CFU/100 ml	O-G - Water)							
Fecal Coliform	SM 9222D	12L0673	100	20000	100	12/18/2012	12/19/2012	>, H3
Sample ID: PVL1139-01 (ADOT-NOG-AUT	O-G - Water)							
Reporting Units: MPN/100 ml E. Coli - MPN	SM 9221F	12L0667	20	9000	10	12/18/2012	12/21/2012	Н3



454-9303

Engineering and Environmental Consultants Phoenix

Project ID: 308032.20

7878 N. 16th Street, Suite 140

Sampled: 12/14/12 Phoenix, AZ 85020 Report Number: PVL1139 Received: 12/17/12

Attention: John Burton

SHORT HOLD TIME DETAIL REPORT

Sample ID: ADOT-NOG-AUTO-G (PVL113	Hold Time (in days) 39-01) - Water	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
SM 9221F	0	12/14/2012 13:00	12/17/2012 17:40	12/18/2012 13:25	12/21/2012 10:00
SM 9222D	0	12/14/2012 13:00	12/17/2012 17:40	12/18/2012 14:10	12/19/2012 14:10



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Engineering and Environmental Consultants Phoenix Project ID: 308032.20

7878 N. 16th Street, Suite 140

Sampled: 12/14/12 Phoenix, AZ 85020 Report Number: PVL1139 Received: 12/17/12

Attention: John Burton

METHOD BLANK/QC DATA

HEXANE EXTRACTABLE MATERIAL BY EPA METHOD 1664A

		Reporting		Spike	Source		%REC		RPD	Data
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifiers
Batch: 12L0909 Extracted: 12/24/12										
Blank Analyzed: 12/24/2012 (12L0909-	·BLK1)									
N-Hexane Extractable (HEM)	ND	5.0	mg/l							
N-Hexane Extractable Silica Gel Treated (SGT)	ND	10	mg/l							
LCS Analyzed: 12/24/2012 (12L0909-B	SS1)									
N-Hexane Extractable (HEM)	42.2	5.0	mg/l	40.0		106	78-114			
N-Hexane Extractable Silica Gel Treated (SGT)	19.5	10	mg/l	20.0		98	64-132			
LCS Dup Analyzed: 12/24/2012 (12L09	909-BSD1)									
N-Hexane Extractable (HEM)	42.9	5.0	mg/l	40.0		107	78-114	2	18	
N-Hexane Extractable Silica Gel Treated (SGT)	20.3	10	mg/l	20.0		102	64-132	4	34	
Matrix Spike Analyzed: 12/24/2012 (12	L0909-MS1)				Source: F	VL1084-0)1			
N-Hexane Extractable (HEM)	45.5	5.0	mg/l	40.0	10.5	87	78-114			
N-Hexane Extractable Silica Gel Treated (SGT)	21.6	10	mg/l	20.0	6.30	76	64-132			



Engineering and Environmental Consultants Phoenix Project ID: 308032.20

7878 N. 16th Street, Suite 140

Sampled: 12/14/12 Phoenix, AZ 85020 Report Number: PVL1139 Received: 12/17/12

Attention: John Burton

METHOD BLANK/QC DATA

INORGANICS

		Reporting		Spike	Source		%REC		RPD	Data
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifiers
Batch: 12L0728 Extracted: 12/18/12										
Blank Analyzed: 12/18/2012 (12L0728-B	LK1)									
Cyanide, Total	ND	0.050	mg/l							
LCS Analyzed: 12/18/2012 (12L0728-BS)	1)									
Cyanide, Total	0.0909	0.050	mg/l	0.100		91	90-110			
LCS Dup Analyzed: 12/18/2012 (12L072)	8-BSD1)									
Cyanide, Total	0.0928	0.050	mg/l	0.100		93	90-110	2	20	
Matrix Spike Analyzed: 12/18/2012 (12L	0728-MS1)				Source: P	VL0976-0	1			
Cyanide, Total	0.106	0.050	mg/l	0.100	ND	106	80-120			
Matrix Spike Dup Analyzed: 12/18/2012	(12L0728-MSI	D1)			Source: P	VL0976-0	1			
Cyanide, Total	0.0846	0.050	mg/l	0.100	ND	85	80-120	22	20	R4



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Project ID: 308032.20 Engineering and Environmental Consultants Phoenix

7878 N. 16th Street, Suite 140

Sampled: 12/14/12 Phoenix, AZ 85020 Report Number: PVL1139 Received: 12/17/12

Attention: John Burton

METHOD BLANK/QC DATA

MICROBIOLOGICALS

		Reporting		Spike	Source		%REC		RPD	Data
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifiers

Batch: 12L0673 Extracted: 12/18/12

Blank Analyzed: 12/19/2012 (12L0673-BLK1)

Fecal Coliform CFU/100 ml



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7878 N. 16th Street, Suite 140

Phoenix, AZ 85020

Report Number: PVL1139

Sampled: 12/14/12

Received: 12/17/12

Attention: John Burton

DATA QUALIFIERS AND DEFINITIONS

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H3 Sample was received and analyzed past holding time.

N1 See case narrative.

R4 MS/MSD RPD exceeded the method acceptance limit. Recovery met acceptance criteria.
 ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.

RPD Relative Percent Difference



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Engineering and Environmental Consultants Phoenix Project ID: 308032.20

7878 N. 16th Street, Suite 140

Phoenix, AZ 85020

Report Number: PVL1139

Sampled: 12/14/12

Received: 12/17/12

Attention: John Burton

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 1664A SGT	Water		X
EPA 1664A	Water		X
SM 4500CN-E	Water		X
SM 9221F	Water		X
SM 9222D	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica

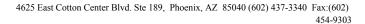
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	[] Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303

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Project Manager:		Phone Number:	none Number: 60よ-34よ-770ユ	2000	+ + + m,						
sampler: Tom Ross		Fax Number:	x Number: 602 - 248 - 7857	146	l+6. Pr- lifo.						
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Note: By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

1.7° PH





LABORATORY REPORT

Prepared For: Engineering and Environmental Consultants Phoenix Project: 308032.19

7878 N. 16th Street, Suite 140

Phoenix, AZ 85020 Attention: John Burton

Sampled: 12/14/12 Received: 12/17/12 Issued: 12/31/12 09:05

NELAP #01109CA / AZ100001 Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY IDCLIENT IDMATRIXPVL1140-01ADOT-NOG-YDWater

SAMPLE RECEIPT: Samples were received intact, at 2°C, on ice and with chain of custody documentation.

HOLDING TIMES: Not all holding times were met. Results were qualified where the sample analysis did not occur within

method specified holding time requirements.

Cyanide samples are tested for the presence of sulfide within 24hrs of sampling. The sample requiring

cyanide was recieved and tested after the 24hr period.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

Reviewed By:

TestAmerica Phoenix

Kylie Emily Project Manager



4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Engineering and Environmental Consultants Phoenix Project ID: 308032.19

7878 N. 16th Street, Suite 140
Phoenix, AZ 85020
Report Number: PVL1140
Sampled: 12/14/12
Received: 12/17/12

Attention: John Burton

HEXANE EXTRACTABLE MATERIAL BY EPA METHOD 1664A

			Reporting	Sample	Dilution	Date	Date	Data
Analyte	Method	Batch	Limit	Result	Factor	Extracted	Analyzed	Qualifiers
Sample ID: PVL1140-01 (ADOT-NOG-	YD - Water)							
Reporting Units: mg/l								
N-Hexane Extractable (HEM)	EPA 1664A	12L0909	5.0	10	1	12/24/2012	12/24/2012	
N-Hexane Extractable Silica Gel Treated	EPA 1664A SGT	12L0909	10	ND	1	12/24/2012	12/24/2012	
(SGT)								



Engineering and Environmental Consultants Phoenix Project ID: 308032.19

7878 N. 16th Street, Suite 140

Phoenix, AZ 85020

Report Number: PVL1140

Sampled: 12/14/12

Received: 12/17/12

Attention: John Burton

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVL1140-01 (ADOT-NOG-YD	- Water)							
Reporting Units: mg/l Cyanide, Total	SM 4500CN-E	12L0728	0.050	ND	1	12/18/2012	12/18/2012	



454-9303

Engineering and Environmental Consultants Phoenix

Project ID: 308032.19

7878 N. 16th Street, Suite 140

Sampled: 12/14/12 Phoenix, AZ 85020 Report Number: PVL1140 Received: 12/17/12

Attention: John Burton

MICROBIOLOGICALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVL1140-01 (ADOT-NOG-YD - Reporting Units: CFU/100 ml	Water)							
Fecal Coliform	SM 9222D	12L0673	100	20000	100	12/18/2012	12/19/2012	>, H3
Sample ID: PVL1140-01 (ADOT-NOG-YD - Water) Reporting Units: MPN/100 ml								
E. Coli - MPN	SM 9221F	12L0667	20	1700	10	12/18/2012	12/21/2012	Н3



THE LEADER IN ENVIRONMENTAL TESTING 4625 East Cotton Ce

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Engineering and Environmental Consultants Phoenix Project ID: 308032.19

7878 N. 16th Street, Suite 140

Phoenix, AZ 85020

Report Number: PVL1140

Sampled: 12/14/12

Received: 12/17/12

Attention: John Burton

SHORT HOLD TIME DETAIL REPORT

Sample ID: ADOT-NOG-YD (PVL1140-01)	Hold Time (in days) - Water	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
SM 9221F	0	12/14/2012 11:00	12/17/2012 17:40	12/18/2012 13:25	12/21/2012 10:00
SM 9222D	0	12/14/2012 11:00	12/17/2012 17:40	12/18/2012 14:10	12/19/2012 14:10



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Engineering and Environmental Consultants Phoenix Project ID: 308032.19

7878 N. 16th Street, Suite 140

Sampled: 12/14/12 Phoenix, AZ 85020 Report Number: PVL1140 Received: 12/17/12

Attention: John Burton

METHOD BLANK/QC DATA

HEXANE EXTRACTABLE MATERIAL BY EPA METHOD 1664A

		Reporting		Spike	Source		%REC		RPD	Data
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifiers
Batch: 12L0909 Extracted: 12/24/12										
Blank Analyzed: 12/24/2012 (12L0909-	BLK1)									
N-Hexane Extractable (HEM)	ND	5.0	mg/l							
N-Hexane Extractable Silica Gel Treated (SGT)	ND	10	mg/l							
LCS Analyzed: 12/24/2012 (12L0909-B	S1)									
N-Hexane Extractable (HEM)	42.2	5.0	mg/l	40.0		106	78-114			
N-Hexane Extractable Silica Gel Treated (SGT)	19.5	10	mg/l	20.0		98	64-132			
LCS Dup Analyzed: 12/24/2012 (12L09	09-BSD1)									
N-Hexane Extractable (HEM)	42.9	5.0	mg/l	40.0		107	78-114	2	18	
N-Hexane Extractable Silica Gel Treated (SGT)	20.3	10	mg/l	20.0		102	64-132	4	34	
Matrix Spike Analyzed: 12/24/2012 (12	L0909-MS1)				Source: F	VL1084-0)1			
N-Hexane Extractable (HEM)	45.5	5.0	mg/l	40.0	10.5	87	78-114			
N-Hexane Extractable Silica Gel Treated (SGT)	21.6	10	mg/l	20.0	6.30	76	64-132			



THE LEADER IN ENVIRONMENTAL TESTING 4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602)

Engineering and Environmental Consultants Phoenix Project ID: 308032.19

7878 N. 16th Street, Suite 140

Sampled: 12/14/12 Phoenix, AZ 85020 Report Number: PVL1140 Received: 12/17/12

Attention: John Burton

METHOD BLANK/QC DATA

INORGANICS

		Reporting		Spike	Source		%REC		RPD	Data
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifiers
Batch: 12L0728 Extracted: 12/18/12										
Blank Analyzed: 12/18/2012 (12L0728-E	BLK1)									
Cyanide, Total	ND	0.050	mg/l							
LCS Analyzed: 12/18/2012 (12L0728-BS	61)									
Cyanide, Total	0.0909	0.050	mg/l	0.100		91	90-110			
LCS Dup Analyzed: 12/18/2012 (12L072	28-BSD1)									
Cyanide, Total	0.0928	0.050	mg/l	0.100		93	90-110	2	20	
Matrix Spike Analyzed: 12/18/2012 (12)	L0728-MS1)				Source: F	VL0976-0	1			
Cyanide, Total	0.106	0.050	mg/l	0.100	ND	106	80-120			
Matrix Spike Dup Analyzed: 12/18/2012	2 (12L0728-MS	5D1)			Source: P	VL0976-0)1			
Cyanide, Total	0.0846	0.050	mg/l	0.100	ND	85	80-120	22	20	R4



Engineering and Environmental Consultants Phoenix

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602)

Sampled: 12/14/12

Project ID: 308032.19

7878 N. 16th Street, Suite 140

Phoenix, AZ 85020 Report Number: PVL1140 Received: 12/17/12

Attention: John Burton

METHOD BLANK/QC DATA

MICROBIOLOGICALS

		Reporting		Spike	Source		%REC		RPD	Data
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifiers

Batch: 12L0673 Extracted: 12/18/12

Blank Analyzed: 12/19/2012 (12L0673-BLK1)

Fecal Coliform ND 1 CFU/100 ml



4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602)

Engineering and Environmental Consultants Phoenix Project ID: 308032.19

7878 N. 16th Street, Suite 140

Phoenix, AZ 85020

Report Number: PVL1140

Sampled: 12/14/12

Received: 12/17/12

Attention: John Burton

DATA QUALIFIERS AND DEFINITIONS

> Greater than.

H3 Sample was received and analyzed past holding time.

R4 MS/MSD RPD exceeded the method acceptance limit. Recovery met acceptance criteria.
 ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.

RPD Relative Percent Difference



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Engineering and Environmental Consultants Phoenix Project ID: 308032.19

7878 N. 16th Street, Suite 140

Phoenix, AZ 85020

Report Number: PVL1140

Sampled: 12/14/12

Received: 12/17/12

Attention: John Burton

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 1664A SGT	Water		X
EPA 1664A	Water		X
SM 4500CN-E	Water		X
SM 9221F	Water		X
SM 9222D	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica

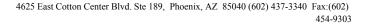
THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY FORM

-] Phoenix 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303] Tucson 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803

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Note: By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.	Belinquished B	De Marie De	Refined By	Relinquished By:			and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s							ADDT-NOG-VD		Sampler: TO- Rosi	John Buston	PHY A2 X3040	5878 N. 164 ST. Swite 149	Client Name / Address:	TAL-0013-550 (10/10)
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LABORATORY REPORT

Prepared For: Engineering and Environmental Consultants Phoenix Project: 308032.02

7878 N. 16th Street, Suite 140

Phoenix, AZ 85020 Attention: John Burton

Sampled: 08/16/12 Received: 08/17/12 Issued: 08/28/12 17:18

NELAP #01109CA / AZ100001 Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID CLIENT ID MATRIX
PVH1436-01 Nogales M.F. Water

SAMPLE RECEIPT: Samples were received intact, at 2°C, on ice and with chain of custody documentation.

HOLDING TIMES: Not all holding times were met. Results were qualified where the sample analysis did not occur within

method specified holding time requirements.

H5-Field parameter with a holding time of 15 minutes. It is the laboratory's policy to analyze the sample

with in 24 hrs of sampleing. The sample was received and analyzed after this 24hr period.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis. Results were qualified where the

sample container did not meet the method preservation requirements.

N1a-pH = 6

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

N1-This analyte was reported as ND based on the "total" result of ND. No additional analysis was

performed.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

Reviewed By:

TestAmerica Phoenix

Kylie Emily Project Manager



4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602)

Sampled: 08/16/12

454-9303

Engineering and Environmental Consultants Phoenix

Project ID: 308032.02

7878 N. 16th Street, Suite 140

Report Number: PVH1436 Received: 08/17/12

Phoenix, AZ 85020 Attention: John Burton

HEXANE EXTRACTABLE MATERIAL BY EPA METHOD 1664A

			Reporting	Sample	Dilution	Date	Date	Data
Analyte	Method	Batch	Limit	Result	Factor	Extracted	Analyzed	Qualifiers
Sample ID: PVH1436-01 (Nogales M.F.	- Water)							
Reporting Units: mg/l								
N-Hexane Extractable Silica Gel Treated	EPA 1664A SGT	12H1091	10	ND	1	8/24/2012	8/24/2012	N1
(SGT)								



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Engineering and Environmental Consultants Phoenix Project ID: 308032.02

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Phoenix, AZ 85020
Report Number: PVH1436
Sampled: 08/16/12
Received: 08/17/12

Attention: John Burton

TOTAL METALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVH1436-01 (Nogales M.F Wa	ter)							
Reporting Units: mg/l								
Calcium	EPA 200.7	12H0832	2.0	31	1	8/20/2012	8/23/2012	
Hardness, Total	SM2340B	[CALC]	13	100	1	8/20/2012	8/23/2012	
Magnesium	EPA 200.7	12H0832	2.0	5.8	1	8/20/2012	8/23/2012	
Sample ID: PVH1436-01RE2 (Nogales M.F.	- Water)							
Reporting Units: mg/l Copper	EPA 200.7	12H1129	0.010	0.016	1	8/26/2012	8/27/2012	



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Report Number: PVH1436

Sampled: 08/16/12

Received: 08/17/12

Attention: John Burton

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVH1436-01 (Nogales M.F.	- water)							
Reporting Units: mg/l								
Ammonia-N	SM 4500NH3-D	12H1073	0.50	ND	1	8/26/2012	8/26/2012	Q5, N1a
Chlorine, Total Residual	HACH 8167	12H0778	0.050	0.089	1	8/17/2012	8/17/2012	H5, Q10
Total Dissolved Solids	SM 2540C	12H0987	20	230	1	8/23/2012	8/23/2012	
Total Suspended Solids	SM 2540D	12H0952	10	43	1	8/22/2012	8/22/2012	



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Sampled: 08/16/12 Phoenix, AZ 85020 Report Number: PVH1436 Received: 08/17/12

Attention: John Burton

MICROBIOLOGICALS

			Reporting	Sample	Dilution	Date	Date	Data
Analyte	Method	Batch	Limit	Result	Factor	Extracted	Analyzed	Qualifiers
Sample ID: PVH1436-01 (Nogales M.F Wa	nter)							
Reporting Units: MPN/100 ml								
E. Coli - MPN	SM 9221F	12H0922	2	>1600	1	8/17/2012	8/19/2012	Н3



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Report Number: PVH1436
Sampled: 08/16/12
Received: 08/17/12

Attention: John Burton

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: Nogales M.F. (PVH1436-01) - V	ater				
HACH 8167	1	08/16/2012 12:00	08/17/2012 11:28	08/17/2012 17:20	08/17/2012 17:41
SM 9221F	0	08/16/2012 12:00	08/17/2012 11:28	08/17/2012 12:10	08/19/2012 13:20



THE LEADER IN ENVIRONMENTAL TESTING 4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax: (602)

Engineering and Environmental Consultants Phoenix Project ID: 308032.02

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Phoenix, AZ 85020
Report Number: PVH1436
Sampled: 08/16/12
Received: 08/17/12

Attention: John Burton

METHOD BLANK/QC DATA

HEXANE EXTRACTABLE MATERIAL BY EPA METHOD 1664A

		Reporting		Spike	Source		%REC		RPD	Data
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifiers
Batch: 12H1091 Extracted: 08/24/12										
Blank Analyzed: 08/24/2012 (12H1091-	-BLK1)									
N-Hexane Extractable Silica Gel Treated (SGT)	ND	10	mg/l							
LCS Analyzed: 08/24/2012 (12H1091-B	BS1)									
N-Hexane Extractable Silica Gel Treated (SGT)	17.4	10	mg/l	20.0		87	64-132			
LCS Dup Analyzed: 08/24/2012 (12H10	091-BSD1)									
N-Hexane Extractable Silica Gel Treated (SGT)	17.5	10	mg/l	20.0		87	64-132	0.2	34	
Matrix Spike Analyzed: 08/24/2012 (12	2H1091-MS1)				Source: I	PVH1392-0	01			
N-Hexane Extractable Silica Gel Treated (SGT)	17.7	10	mg/l	20.0	ND	88	64-132			

454-9303



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Project ID: 308032.02 Engineering and Environmental Consultants Phoenix

7878 N. 16th Street, Suite 140

Sampled: 08/16/12 Phoenix, AZ 85020 Report Number: PVH1436 Received: 08/17/12

Attention: John Burton

METHOD BLANK/QC DATA

TOTAL METALS

	Reporting						%REC		RPD	Data
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifiers
Batch: 12H0832 Extracted: 08/20/12										
Blank Analyzed: 08/23/2012 (12H0832-B	,		_							
Calcium	ND	2.0	mg/l							
Magnesium	ND	2.0	mg/l							
LCS Analyzed: 08/23/2012 (12H0832-BS	1)									
Calcium	20.3	2.0	mg/l	21.0		97	85-115			
Magnesium	20.0	2.0	mg/l	21.0		95	85-115			
LCS Dup Analyzed: 08/23/2012 (12H083	2-BSD1)									
Calcium	20.5	2.0	mg/l	21.0		97	85-115	0.6	20	
Magnesium	20.1	2.0	mg/l	21.0		96	85-115	0.8	20	
Matrix Spike Analyzed: 08/23/2012 (12H	(0832-MS1)				Source: P	VH1428-0	01			
Calcium	403	2.0	mg/l	21.0	405	-8	70-130			M3
Magnesium	86.3	2.0	mg/l	21.0	69.7	79	70-130			
Matrix Spike Dup Analyzed: 08/23/2012	(12H0832-MS	SD1)			Source: P	VH1428-0	01			
Calcium	411	2.0	mg/l	21.0	405	29	70-130	2	20	M3
Magnesium	87.4	2.0	mg/l	21.0	69.7	84	70-130	1	20	
Batch: 12H1129 Extracted: 08/26/12										
Blank Analyzed: 08/27/2012 (12H1129-B	LK1)									
Copper	ND	0.010	mg/l							
LCS Analyzed: 08/27/2012 (12H1129-BS	1)									
Copper	0.926	0.010	mg/l	1.00		93	85-115			

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Sampled: 08/16/12

Engineering and Environmental Consultants Phoenix Project ID: 308032.02

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Phoenix, AZ 85020 Report Number: PVH1436 Received: 08/17/12

Attention: John Burton

METHOD BLANK/QC DATA

TOTAL METALS

		Reporting		Spike	Source		%REC		RPD	Data
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifiers
Batch: 12H1129 Extracted: 08/26/12										
LCS Dup Analyzed: 08/27/2012 (12H112	9-BSD1)									
Copper	0.919	0.010	mg/l	1.00		92	85-115	0.7	20	
Matrix Spike Analyzed: 08/27/2012 (12F	I1129-MS1)				Source: P	VH1720-0	1RE1			
Copper	0.956	0.010	mg/l	1.00	ND	96	70-130			
Matrix Spike Dup Analyzed: 08/27/2012	D 1)			Source: P	VH1720-0	1RE1				
Copper	0.962	0.010	mg/l	1.00	ND	96	70-130	0.5	20	



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Phoenix, AZ 85020 Report Number: PVH1436 Received: 08/17/12

Attention: John Burton

METHOD BLANK/QC DATA

INORGANICS

		Reporting		Spike	Source		%REC		RPD	Data
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifiers
Batch: 12H0778 Extracted: 08/17/12										
Blank Analyzed: 08/17/2012 (12H0778-I	BLK1)									
Chlorine, Total Residual	ND	0.050	mg/l							
LCS Analyzed: 08/17/2012 (12H0778-BS	S1)									
Chlorine, Total Residual	1.08	0.050	mg/l	0.999		108	90-110			
LCS Dup Analyzed: 08/17/2012 (12H07'	78-BSD1)									
Chlorine, Total Residual	1.07	0.050	mg/l	0.999		107	90-110	0.7	20	
Duplicate Analyzed: 08/17/2012 (12H07	78-DUP1)				Source: F	VH1436-0)1			
Chlorine, Total Residual	0.0880	0.050	mg/l		0.0890			1	20	H5
Batch: 12H0952 Extracted: 08/22/12										
Blank Analyzed: 08/22/2012 (12H0952-I	BLK1)									
Total Suspended Solids	ND	5.0	mg/l							
LCS Analyzed: 08/22/2012 (12H0952-BS	S1)									
Total Suspended Solids	202	10	mg/l	200		101	90-110			
LCS Dup Analyzed: 08/22/2012 (12H09	52-BSD1)									
Total Suspended Solids	199	10	mg/l	200		100	90-110	1	10	
Duplicate Analyzed: 08/22/2012 (12H09	52-DUP1)				Source: F	VH1423-0)1			
Total Suspended Solids	8220	200	mg/l		8460			3	10	
Duplicate Analyzed: 08/22/2012 (12H09	52-DUP2)				Source: F	VH1481-0)1			
Total Suspended Solids	784	40	mg/l		684			14	10	R9

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Project ID: 308032.02 Engineering and Environmental Consultants Phoenix

7878 N. 16th Street, Suite 140

Sampled: 08/16/12 Phoenix, AZ 85020 Report Number: PVH1436 Received: 08/17/12

Attention: John Burton

METHOD BLANK/QC DATA

INORGANICS

	.	Reporting	T T 1.	Spike	Source	A/DEC	%REC	DDD	RPD	Data
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifiers
Batch: 12H0987 Extracted: 08/23/12										
Blank Analyzed: 08/23/2012 (12H0987-B	LK1)									
Total Dissolved Solids	ND	20	mg/l							
LCS Analyzed: 08/23/2012 (12H0987-BS	1)									
Total Dissolved Solids	994	20	mg/l	1000		99	80-115			
I CC Dara Amalana da 00/22/2012 (12H000	7 DCD1)		Ü							
LCS Dup Analyzed: 08/23/2012 (12H098 Total Dissolved Solids	7-BSD1) 1000	20	mg/l	1000		100	80-115	1	10	
		20	mg/i					1	10	
Duplicate Analyzed: 08/23/2012 (12H098	,					VH1332-0	01			
Total Dissolved Solids	376	20	mg/l		356			5	10	
Duplicate Analyzed: 08/23/2012 (12H098	7-DUP2)				Source: P	VH1743-0	01			
Total Dissolved Solids	2000	40	mg/l		2040			2	10	
Batch: 12H1073 Extracted: 08/26/12										
Blank Analyzed: 08/26/2012 (12H1073-B	LK1)									
Ammonia-N	ND	0.50	mg/l							
LCS Analyzed: 08/26/2012 (12H1073-BS	1)									
Ammonia-N	25.4	0.50	mg/l	25.0		102	80-120			
I CS Dun Anghard 09/26/2012 (12H107	2 DCD1)		J							
LCS Dup Analyzed: 08/26/2012 (12H107) Ammonia-N	3-БSD1) 25.8	0.50	mg/l	25.0		103	80-120	1	20	
Allinoma-IV	23.0	0.50	1118/1	23.0		103	00-120	1	20	
Matrix Spike Analyzed: 08/26/2012 (12H	1073-MS1)				Source: P	VH1438-0	01RE1			
Ammonia-N	20.8	0.50	mg/l	25.0	0.544	81	80-120			

TestAmerica Phoenix



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Engineering and Environmental Consultants Phoenix

Project ID: 308032.02

7878 N. 16th Street, Suite 140

Sampled: 08/16/12 Phoenix, AZ 85020 Report Number: PVH1436 Received: 08/17/12

Attention: John Burton

METHOD BLANK/QC DATA

INORGANICS

		Reporting		Spike	Source		%REC		KPD	Data
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifiers
Batch: 12H1073 Extracted: 08/26/12										
Matrix Spike Dup Analyzed: 08/26/20	12 (12H1073-M	ISD1)			Source: P	VH1438-0	01RE1			
Ammonia-N	19.7	0.50	mg/l	25.0	0.544	77	80-120	5	20	M2



4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602)

Engineering and Environmental Consultants Phoenix Project ID: 308032.02

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Phoenix, AZ 85020

Report Number: PVH1436

Sampled: 08/16/12

Received: 08/17/12

Attention: John Burton

DATA QUALIFIERS AND DEFINITIONS

Н3	Sample was received and analyzed past holding time.
H5	Field parameter with a holding time of 15 mintues.

M2 Matrix spike recovery was low; the associated blank spike recovery was acceptable.

M3 The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike

level. The associated blank spike recovery was acceptable.

N1 See case narrative.

Q10 Sample received in inappropriate sample container.

Q5 Sample received with inadequate chemical preservation, but preserved by the laboratory.

R9 Sample RPD exceeded the laboratory acceptance limit

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.

RPD Relative Percent Difference



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7878 N. 16th Street, Suite 140

Phoenix, AZ 85020

Report Number: PVH1436

Sampled: 08/16/12

Received: 08/17/12

Attention: John Burton

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 1664A SGT	Water		X
EPA 200.7	Water		X
HACH 8167	Water		X
SM 2540C	Water		X
SM 2540D	Water		X
SM 4500NH3-D	Water		X
SM 9221F	Water		X
SM2340B	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica

CHAIN OF CUSTODY FORM PUH 1436

Relinquished By: Date/Tir	Relinquished By Date / Time	Contract of the second	Relinguished By: Date / Time									MOGGLES M. F. WW	Sample Description Sample Container Matrix Type	Sampler: Ton less	Project Manager: Buston	7578 H 16# ST. Switc140 Phochix AZ 85020	Client Name / Address:	THE LEADER IN ENVIRONMENTAL TESTING TAL-0013-550 (10/10)
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	9:00.	OPPO			:						, ,	c1/01/18	Sampling Date	mber: コースイダ	Phone Number: 602-248-7702	300004.08	Project/PO Number:	nix - 4625 on - 1870 V /egas - 60
Received	Received By-		Received By									0061	Sampling Time	Fax Number:	7702	S S	کer: د	E. Cotton C V. Prince R 00 S Easter
Received in Lab By:	Ву:		By	7									Preservatives					Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303 Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803 Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264
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Date/Time) 5/17/12 22)	Date/Time:	4/2	ate / Time							:		V	jiA.	njM.	DHI (a (L ₂ ss		AZ 85040 (602) 437-3: (520) 807-3801 FAX 89119 (702) 429-1264
7		7/12	`									1	E-	Col	(r c	CL2		(602) 437 -3801 FA 2) 429-120
29)	e e	3/15										1	He	arc	Ne.	<i>SS</i>	Analys	3340 FAX X (520) 80
Sample intact_	24 hours 48 hours	same day	Turnard														Analysis Required	((602) 454 7-3803
Sample Integrity:	ร ร 	lay	Turnaround Time:														red	1-9303
(Check)			(Check)									-01			-754-		-	Page_
on ice	5 days _ normal _	72 hours _										7	Special Instructions					o.
1													tructions					-

Note: By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project.

Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.



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Tax I.D. 62-0814289

Est. 1970

John Burton Engineering & Env. Consultants, INC. -AZ 7878 N. 16th Street, Suite 140 Phoenix, AZ 85020

Report Summary

Wednesday February 06, 2013

Report Number: L617489 Samples Received: 01/29/13 Client Project: 308032.20

Description: ADOT Stormwater - Flagstaff MS4

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Daphne Richards , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197, FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704/BIO041, ND - R-140. NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1, TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

This report may not be reproduced, except in full, without written approval from ESC Lab Sciences. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



John Burton

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REPORT OF ANALYSIS

Engineering & Env. Consultants, INC 7878 N. 16th Street, Suite 140 Phoenix, AZ 85020

ESC Sample # : L617489-01

Site ID : FLAGSTAFF MS4

Project #: 308032.20

February 06, 2013

Date Received : January 29, 2013

: ADOT Stormwater - Flagstaff MS4 Description

: FLAG012513 COMP Sample ID

Collected By : John Burton
Collection Date : 01/25/13 06:33

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloride Sulfate	36. BDL	1.0 5.0	mg/l mg/l	300.0	01/29/13 01/29/13	1 1
BOD	15.0	5.00	mg/l	5210 B-2011	02/03/13	1
Chlorine, residual	0.14	0.10	mg/l	4500Cl G-2011	01/31/13	1
COD	200	10.	mg/l	410.4	01/31/13	1
Hardness, Total (mg/L as CaCO3)	120	30.	mg/l	130.1	02/05/13	1
MBAS	BDL	0.10	mg/l	5540 C-2011	01/30/13	1
Ammonia Nitrogen	0.34	0.10	mg/l	350.1	01/30/13	1
Nitrate-Nitrite	0.16	0.10	mg/l	353.2	02/02/13	1
Phosphate,Ortho	0.36	0.25	mg/l	4500P-E	01/30/13	10
Phosphorus, Total	2.0	0.10	mg/l	365.4	01/31/13	1
Specific Conductance	220		umhos/cm	120.1	02/05/13	1
Kjeldahl Nitrogen, TKN	3.2	0.10	mg/l	351.2	02/01/13	1
Turbidity	180	0.10	NTU	2130 B-2011	01/31/13	1
Dissolved Solids	120	10.	mg/l	2540 C-2011	02/01/13	1
Suspended Solids	260	1.0	mg/l	2540 D-2011	02/04/13	1
Mercury	BDL	0.00020	mg/l	245.1	01/30/13	1
Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Copper Lead Nickel Selenium	BDL BDL 0.26 BDL 31. 0.015 0.044 0.037 BDL BDL	0.020 0.020 0.0050 0.0040 0.0050 0.50 0.010 0.020 0.0050 0.020	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	200.7 200.7 200.7 200.7 200.7 200.7 200.7 200.7 200.7 200.7 200.7	01/29/13 01/29/13 01/29/13 01/30/13 01/29/13 01/29/13 01/29/13 01/29/13 01/29/13 01/29/13	1 1 2 1 1 1 1 1 1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)



John Burton

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REPORT OF ANALYSIS

February 06, 2013

Engineering & Env. Consultants, INC 7878 N. 16th Street, Suite 140 Phoenix, AZ 85020

ESC Sample # : L617489-01

Date Received : January 29, 2013

: ADOT Stormwater - Flagstaff MS4 Description

Site ID : FLAGSTAFF MS4 : FLAG012513 COMP Sample ID Project #: 308032.20

Collected By : John Burton
Collection Date : 01/25/13 06:33

Parameter	Result	Det. Limit	Units	Method	Date Dil.	
Silver	BDL	0.010	mg/l	200.7	01/29/13 1	
Sodium	30.	0.50	mg/l	200.7	01/29/13 1	
Zinc	0.30	0.030	mg/l	200.7	01/29/13 1	
P	DDI	0 00050		600	01/20/12 1	
Benzene	BDL BDL	0.00050 0.0050	mg/1	602 602	01/30/13 1 01/30/13 1	
Toluene			mg/1			
Ethylbenzene	BDL	0.00050	mg/l	602	01/30/13 1	
Total Xylene	BDL	0.0015	mg/1	602	01/30/13 1	
Surrogate Recovery(%)					01/00/10	
a,a,a-Trifluorotoluene(PID)	101.		% Rec.	602	01/30/13 1	
Pesticides						
Aldrin	BDL	0.000050	mg/1	8081 A	02/01/13 1	
Alpha BHC	BDL	0.000050	mg/l	8081 A	02/01/13 1	
Beta BHC	BDL	0.000050	mg/l	8081 A	02/01/13 1	
Delta BHC	BDL	0.000050	mg/l	8081 A	02/01/13 1	
Gamma BHC	BDL	0.000050	mg/l	8081 A	02/01/13 1	
Chlordane	BDL	0.00050	mg/l	8081 A	02/01/13 1	
4,4-DDD	BDL	0.000050	mg/l	8081 A	02/01/13 1	
4,4-DDE	BDL	0.000050	mg/l	8081 A	02/01/13 1	
4,4-DDT	BDL	0.000050	mg/l	8081 A	02/01/13 1	
Dieldrin	BDL	0.000050	mg/l	8081 A	02/01/13 1	
Endosulfan I	BDL	0.000050	mg/1	8081 A	02/01/13 1	
Endosulfan II	BDL	0.000050	mq/1	8081 A	02/01/13 1	
Endosulfan sulfate	BDL	0.000050	mg/l	8081 A	02/01/13 1	
Endrin	BDL	0.000050	mg/1	8081 A	02/01/13 1	
Endrin aldehyde	BDL	0.000050	mg/l	8081 A	02/01/13 1	
Endrin ketone	BDL	0.000050	mg/l	8081 A	02/01/13 1	
Hexachlorobenzene	BDL	0.000050	mg/1	8081 A	02/01/13 1	
Heptachlor	BDL	0.000050	mg/1	8081 A	02/01/13 1	
Heptachlor epoxide	BDL	0.000050	mg/l	8081 A	02/01/13 1	
Methoxychlor	BDL	0.000050	mg/l	8081 A	02/01/13 1	
Toxaphene	BDL	0.00050	mg/l	8081 A	02/01/13 1	
Pesticides Surrogates	חמם	0.00030	mg/I	0001 A	02/01/13 1	
Decachlorobiphenyl	66.1		% Rec.	8081 A	02/01/13 1	
	71.7		% Rec.	8081 A	02/01/13 1	
Tetrachloro-m-xylene	/1./		% Rec.	8081 A	02/01/13 1	
Base/Neutral Extractables						
Acenaphthene	BDL	0.0010	mg/1	8270 C	01/31/13 1	
Acenaphthylene	BDL	0.0010	mg/1	8270 C	01/31/13 1	
Anthracene	BDL	0.0010	mg/1	8270 C	01/31/13 1	
Benzidine	BDL	0.010	mg/1	8270 C	01/31/13 1	
Benzo(a)anthracene	BDL	0.0010	mg/1	8270 C	01/31/13 1	
Benzo(b)fluoranthene	BDL	0.0010	mg/1	8270 C	01/31/13 1	

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)



John Burton

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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

February 06, 2013

Engineering & Env. Consultants, INC 7878 N. 16th Street, Suite 140 Phoenix, AZ 85020

ESC Sample # : L617489-01

Date Received : January 29, 2013

: ADOT Stormwater - Flagstaff MS4 Description

Site ID : FLAGSTAFF MS4 Sample ID : FLAG012513 COMP Project #: 308032.20

Collected By : John Burton
Collection Date : 01/25/13 06:33

Parameter	Result	Det. Limit	Units	Method	Date Dil.	
Benzo(k)fluoranthene	BDL	0.0010	mg/l	8270 C	01/31/13 1	
Benzo(g,h,i)perylene	BDL	0.0010	mg/l	8270 C	01/31/13 1	
Benzo(a)pyrene	BDL	0.0010	mg/l	8270 C	01/31/13 1	
Bis(2-chlorethoxy)methane	BDL	0.010	mg/l	8270 C	01/31/13 1	
Bis(2-chloroethyl)ether	BDL	0.010	mg/l	8270 C	01/31/13 1	
Bis(2-chloroisopropyl)ether	BDL	0.010	mg/l	8270 C	01/31/13 1	
4-Bromophenyl-phenylether	BDL	0.010	mg/l	8270 C	01/31/13 1	
2-Chloronaphthalene	BDL	0.0010	mg/1	8270 C	01/31/13 1	
4-Chlorophenyl-phenylether	BDL	0.010	mg/l	8270 C	01/31/13 1	
Chrysene	BDL	0.0010	mg/l	8270 C	01/31/13 1	
Dibenz(a,h)anthracene	BDL	0.0010	mg/1	8270 C	01/31/13 1	
3,3-Dichlorobenzidine	BDL	0.010	mq/1	8270 C	01/31/13 1	
2,4-Dinitrotoluene	BDL	0.010	mg/l	8270 C	01/31/13 1	
2,6-Dinitrotoluene	BDL	0.010	mq/1	8270 C	01/31/13 1	
Fluoranthene	BDL	0.0010	mg/l	8270 C	01/31/13 1	
Fluorene	BDL	0.0010	mg/1	8270 C	01/31/13 1	
Hexachlorobenzene	BDL	0.0010	mg/l	8270 C	01/31/13 1	
Hexachloro-1,3-butadiene	BDL	0.010	mq/1	8270 C	01/31/13 1	
Hexachlorocyclopentadiene	BDL	0.010	mg/l	8270 C	01/31/13 1	
Hexachloroethane	BDL	0.010	mq/1	8270 C	01/31/13 1	
Indeno(1,2,3-cd)pyrene	BDL	0.0010	mg/1	8270 C	01/31/13 1	
Isophorone	BDL	0.010	mg/l	8270 C	01/31/13 1	
Naphthalene	BDL	0.0010	mg/l	8270 C	01/31/13 1	
Nitrobenzene	BDL	0.010	mg/l	8270 C	01/31/13 1	
n-Nitrosodimethylamine	BDL	0.010	mg/l	8270 C	01/31/13 1	
n-Nitrosodiphenylamine	BDL	0.010	mg/l	8270 C	01/31/13 1	
n-Nitrosodi-n-propylamine	BDL	0.010	mg/l	8270 C	01/31/13 1	
Phenanthrene	BDL	0.0010	mg/l	8270 C	01/31/13 1	
Benzylbutyl phthalate	BDL	0.0030	mg/l	8270 C	01/31/13 1	
Bis(2-ethylhexyl)phthalate	BDL	0.0030	mg/l	8270 C	01/31/13 1	
Di-n-butyl phthalate	BDL	0.0030	mg/l	8270 C	01/31/13 1	
Diethyl phthalate	BDL	0.0030	mg/l	8270 C	01/31/13 1	
Dimethyl phthalate	BDL	0.0030	mg/l	8270 C	01/31/13 1	
Di-n-octyl phthalate	BDL	0.0030	mg/l	8270 C	01/31/13 1	
Pyrene	BDL	0.0010	mg/l	8270 C	01/31/13 1	
1,2,4-Trichlorobenzene	BDL	0.010	mg/l	8270 C	01/31/13 1	
Acid Extractables			-			
4-Chloro-3-methylphenol	BDL	0.010	mg/l	8270 C	01/31/13 1	
2-Chlorophenol	BDL	0.010	mg/l	8270 C	01/31/13 1	
2,4-Dichlorophenol	BDL	0.010	mg/l	8270 C	01/31/13 1	
2,4-Dimethylphenol	BDL	0.010	mg/l	8270 C	01/31/13 1	
4,6-Dinitro-2-methylphenol	BDL	0.010	mg/l	8270 C	01/31/13 1	
2,4-Dinitrophenol	BDL	0.010	mg/l	8270 C	01/31/13 1	
2-Nitrophenol	BDL	0.010	mg/1	8270 C	01/31/13 1	

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)



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REPORT OF ANALYSIS

John Burton Engineering & Env. Consultants, INC

7878 N. 16th Street, Suite 140

Phoenix, AZ 85020

ESC Sample # : L617489-01

February 06, 2013

Date Received : January 29, 2013

: ADOT Stormwater - Flagstaff MS4 Description

Site ID : FLAGSTAFF MS4 Sample ID : FLAG012513 COMP

Project #: 308032.20

Collected By : John Burton Collection Date : 01/25/13 06:33

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
4 Ni torral and I	DDI	0.010		0070 0	01/21/12	1
4-Nitrophenol	BDL	0.010	mg/1	8270 C	01/31/13	1
Pentachlorophenol	BDL	0.010	mg/l	8270 C	01/31/13	1
Phenol	BDL	0.010	mg/1	8270 C	01/31/13	1
2,4,6-Trichlorophenol	BDL	0.010	mg/1	8270 C	01/31/13	1
Surrogate Recovery						
2-Fluorophenol	47.1		% Rec.	8270 C	01/31/13	1
Phenol-d5	34.0		% Rec.	8270 C	01/31/13	1
Nitrobenzene-d5	80.5		% Rec.	8270 C	01/31/13	1
2-Fluorobiphenyl	92.2		% Rec.	8270 C	01/31/13	1
2,4,6-Tribromophenol	92.2		% Rec.	8270 C	01/31/13	1
p-Terphenyl-d14	113.		% Rec.	8270 C	01/31/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted. This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 02/06/13 13:46 Printed: 02/06/13 15:04



John Burton

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Est. 1970

REPORT OF ANALYSIS

February 06, 2013

Engineering & Env. Consultants, INC 7878 N. 16th Street, Suite 140

Phoenix, AZ 85020

ESC Sample # : L617489-02

Date Received : January 29, 2013

Description ADOT Stormwater - Flagstaff MS4

Site ID : FLAGSTAFF MS4 Sample ID FLAG012513 GRAB Project # : 308032.20

Collected By John Burton Collection Date : 01/25/13 06:33

Det. Limit Dil. Parameter Result Units Method Date pH (On Site) 7.2 su Temperature (on-site) Deg. F 53. Coliform, fecal 120 col/100ml SM9222D 01/30/13 1 0.0050 4500CN E-2011 Cyanide 0.016 02/01/13 mg/11 Oil & Grease (Hexane Extr) 7.6 5.0 02/04/13 mg/11664A 1 10. E.Coli 140 MPN/100ml9223B-2004 01/30/13 10 Coliform, Total 4400 10. MPN/100ml 9223B-2004 01/30/13 10 TPH (GC/FID) High Fraction 0.14 0.10 mg/13510C/DRO 02/01/13 1 Surrogate recovery(%) o-Terphenyl 91.1 % Rec. 3510C/DRO 02/01/13 1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 02/06/13 13:46 Printed: 02/06/13 15:04

Attachment A List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
	-				
L617489-01	WG634587	SAMP	Phosphate,Ortho	R2526438	Т8
	WG634418	SAMP	Beryllium	R2521997	0
	WG634335	SAMP	BOD	R2527239	J4T8
	WG634625	SAMP	Chlorine, residual	R2524278	T8
	WG634555	SAMP	MBAS	R2523377	T8
	WG634793	SAMP	Turbidity	R2525358	T8
L617489-02	WG635164	SAMP	Oil & Grease (Hexane Extr)	R2527917	L3
	WG635274	SAMP	Coliform, fecal	R2529137	T8
	WG635192	SAMP	E.Coli	R2527841	T8
	WG635192	SAMP	Coliform, Total	R2527841	T8
	WG634647	SAMP	Cyanide	R2526177	M

Attachment B Explanation of QC Qualifier Codes

Qualifier	Meaning
J4	The associated batch QC was outside the established quality control range for accuracy. $\ \ \ \ \ \ \ \ \ \ \ \ \ $
L3	(ESC) Sample reanalysis and/or spiking could not be performed due to lack of additional volume.
0	(ESC) Sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary dilution.
Т8	(ESC) - Additional method/sample information: Sample(s) received past/too close to holding time expiration.
W	(ESC)-The laboratory analysis was from a sample collected in an improper container

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

- Accuracy The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision The agreement between a set of samples or between duplicate samples.

 Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.



Engineering & Env. Consultants, INC. -AZ John Burton 7878 N. 16th Street, Suite 140

Phoenix, AZ 85020

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Tax I.D. 62-0814289

Est. 1970

Quality Assurance Report Level II

L617489

		Laboratory	Blank		
Analyte	Result	Units	% Rec	Limit	Batch Date Analyze
Antimony	< .02	mg/l			WG634418 01/29/13 22:
Arsenic	< .02	mg/l			WG634418 01/29/13 22:
Barium	< .02				WG634418 01/29/13 22: WG634418 01/29/13 22:
		mg/l			
Beryllium	< .002	mg/l			WG634418 01/29/13 22:
Cadmium	< .005	mg/l			WG634418 01/29/13 22:
Calcium	< .5	mg/l			WG634418 01/29/13 22:
Chromium	< .01	mg/l			WG634418 01/29/13 22:
Copper	< .02	mg/l			WG634418 01/29/13 22:
Lead	< .005	mg/l			WG634418 01/29/13 22:
Nickel	< .02	mg/l			WG634418 01/29/13 22:
Selenium	< .02	mg/l			WG634418 01/29/13 22:
Silver	< .01	mg/l			WG634418 01/29/13 22:
Sodium	< .5	mg/l			WG634418 01/29/13 22:
Zinc	< .03	mg/l			WG634418 01/29/13 22:
Chloride	< 1	mg/l			WG634319 01/29/13 07:
Sulfate	< 5	mg/l			WG634319 01/29/13 07:
Benzene	< .0005	mq/l			WG634494 01/29/13 23:
Ethylbenzene	< .0005	mg/l			WG634494 01/29/13 23:
	< .005	_			
Toluene	< .005	mg/l			WG634494 01/29/13 23:
Total Xylene	₹ .0015	mg/l	101 5	FF 100	WG634494 01/29/13 23:
a,a,a-Trifluorotoluene(PID)		% Rec.	101.7	55-122	WG634494 01/29/13 23:
Ammonia Nitrogen	< .1	mg/l			WG634372 01/30/13 14:
MBAS	< .1	mg/l			WG634555 01/30/13 15:
Mercury	< .0002	mg/l			WG634524 01/30/13 20:
~1.7.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1		/3			***************************************
Chlorine,residual	< .1	mg/l			WG634625 01/31/13 13:
1,2,4-Trichlorobenzene	< .01	mg/l			WG634623 01/31/13 04:
2,4,6-Trichlorophenol	< .01	mg/l			WG634623 01/31/13 04:
2,4-Dichlorophenol	< .01	mg/l			WG634623 01/31/13 04:
2,4-Dimethylphenol	< .01	mg/l			WG634623 01/31/13 04:
2,4-Dinitrophenol	< .01	mg/l			WG634623 01/31/13 04:
2,4-Dinitrotoluene	< .01	mq/l			WG634623 01/31/13 04:
2,6-Dinitrotoluene	< .01	mg/l			WG634623 01/31/13 04:
2-Chloronaphthalene	< .001	mg/l			WG634623 01/31/13 04:
2-Chlorophenol	< .01	mg/l			WG634623 01/31/13 04:
2-Nitrophenol	< .01	mg/l			WG634623 01/31/13 04:
3,3-Dichlorobenzidine	< .01	mg/l			WG634623 01/31/13 04:
4,6-Dinitro-2-methylphenol	< .01	mg/l			WG634623 01/31/13 04:
4-Bromophenyl-phenylether	< .01	mg/l			WG634623 01/31/13 04:
4-Chloro-3-methylphenol	< .01	mg/l			WG634623 01/31/13 04:
4-Chlorophenyl-phenylether	< .01	mg/l			WG634623 01/31/13 04:
	< .01	_			
4-Nitrophenol		mg/l			WG634623 01/31/13 04:
Acenaphthene	< .001	mg/l			WG634623 01/31/13 04:
Acenaphthylene	< .001	mg/l			WG634623 01/31/13 04:
Anthracene	< .001	mg/l			WG634623 01/31/13 04:
Benzidine	< .01	mg/l			WG634623 01/31/13 04:

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Tax I.D. 62-0814289

Est. 1970

Quality Assurance Report Level II

L617489

		T - 1	. D11-		
Analyte	Result	Laboratory Units	* Rec	Limit	Batch Date Analy
India 1 cc	1100010	011100	0 1100	Dimi	Bacon Bace imary
Benzo(a)anthracene	< .001	mg/l			WG634623 01/31/13 0
Benzo(a)pyrene	< .001	mg/l			WG634623 01/31/13 0
Benzo(b)fluoranthene	< .001	mg/l			WG634623 01/31/13 0
Benzo(g,h,i)perylene	< .001	mg/l			WG634623 01/31/13 0
Benzo(k)fluoranthene	< .001	mg/l			WG634623 01/31/13 0
Benzylbutyl phthalate	< .003	mg/l			WG634623 01/31/13 0
Bis(2-chlorethoxy)methane	< .01	mg/l			WG634623 01/31/13 0
Bis(2-chloroethyl)ether	< .01	mg/l			WG634623 01/31/13 0
Bis(2-chloroisopropyl)ether	< .01	mg/l			WG634623 01/31/13 0
Bis(2-ethylhexyl)phthalate	< .003	mg/l			WG634623 01/31/13 0
Chrysene	< .001	mg/l			WG634623 01/31/13 0
Di-n-butyl phthalate	< .003	mg/l			WG634623 01/31/13 0
Di-n-octyl phthalate	< .003	mg/l			WG634623 01/31/13 0
Dibenz(a,h)anthracene	< .001	mg/l			WG634623 01/31/13 0
Diethyl phthalate	< .003	mg/l			WG634623 01/31/13 0
Dimethyl phthalate	< .003	mg/l			WG634623 01/31/13 0
Fluoranthene	< .001	mg/l			WG634623 01/31/13 0
Fluorene	< .001	mg/l			WG634623 01/31/13 0
Hexachloro-1,3-butadiene	< .01	mg/l			WG634623 01/31/13 0
Hexachlorobenzene	< .001	mg/l			WG634623 01/31/13 0
Hexachlorocyclopentadiene	< .01	mg/l			WG634623 01/31/13 0
Hexachloroethane	< .01	mg/l			WG634623 01/31/13 0
Indeno(1,2,3-cd)pyrene	< .001	mg/l			WG634623 01/31/13 0
Isophorone	< .01	mg/l			WG634623 01/31/13 0
n-Nitrosodi-n-propylamine	< .01	mg/l			WG634623 01/31/13 0
n-Nitrosodimethylamine	< .01	mg/l			WG634623 01/31/13 0
n-Nitrosodiphenylamine	< .01	mg/l			WG634623 01/31/13 0
Naphthalene	< .001	mg/l			WG634623 01/31/13 0
Nitrobenzene	< .01	mg/l			WG634623 01/31/13 0
Pentachlorophenol	< .001	mg/l			WG634623 01/31/13 0
Phenanthrene	< .001	mg/l			WG634623 01/31/13 0
Phenol	< .01	mg/l			WG634623 01/31/13 0
Pyrene	< .001	mg/l			WG634623 01/31/13 0
2,4,6-Tribromophenol		% Rec.	63.80	16-147	WG634623 01/31/13 0
2-Fluorobiphenyl		% Rec.	82.30	29-127	WG634623 01/31/13 0
2-Fluorophenol		% Rec.	41.10	10-75	WG634623 01/31/13 0
Nitrobenzene-d5		% Rec.	74.10	17-119	WG634623 01/31/13 0
Phenol-d5		% Rec.	28.70	10-63	WG634623 01/31/13 0
p-Terphenyl-d14		% Rec.	94.10	40-174	WG634623 01/31/13 0
Turbidity	< .1	NTU			WG634793 01/31/13 1
COD	< 10	mg/l			WG634576 01/31/13 1
4,4-DDD	< .00005	mg/l			WG634514 02/01/13 1
4,4-DDE	< .00005	mg/l			WG634514 02/01/13 1
4,4-DDT	< .00005	mg/l			WG634514 02/01/13 1
Aldrin	< .00005	mg/l			WG634514 02/01/13 1
Alpha BHC	< .00005	mg/l			WG634514 02/01/13 1
Beta BHC	< .00005	mg/l			WG634514 02/01/13 1
Chlordane	< .005	mg/l			WG634514 02/01/13 1
Delta BHC	< .00005	mg/l			WG634514 02/01/13 1
Dieldrin	< .00005	mg/l			WG634514 02/01/13 1
Endosulfan I	< .00005	mg/l			WG634514 02/01/13 1
Endosulfan II	< .00005	mg/l			WG634514 02/01/13 1
Endosulfan sulfate	< .00005	mg/l			WG634514 02/01/13 1

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		Laboratory Blank					
Analyte	Result	Units	% Rec	Limit	Batch Date Analyze	∍d	
Endrin	< .00005	mq/l			WG634514 02/01/13 10:	. 50	
Endrin aldehyde	< .00005	mg/l			WG634514 02/01/13 10:		
Endrin ketone	< .00005	mg/l			WG634514 02/01/13 10:		
Gamma BHC	< .00005	mg/l			WG634514 02/01/13 10:		
Heptachlor	< .00005	mg/l			WG634514 02/01/13 10:		
Heptachlor epoxide	< .00005	mg/l			WG634514 02/01/13 10:		
Hexachlorobenzene	< .00005	mg/l			WG634514 02/01/13 10:	:59	
Methoxychlor	< .00005	mg/l			WG634514 02/01/13 10:	:59	
Toxaphene	< .0005	mg/l			WG634514 02/01/13 10:	:59	
Decachlorobiphenyl		% Rec.	80.30	10-141	WG634514 02/01/13 10:	:59	
Tetrachloro-m-xylene		% Rec.	62.40	10-125	WG634514 02/01/13 10:	:59	
Kjeldahl Nitrogen, TKN	< .1	mg/l			WG634374 02/01/13 12:	:06	
Dissolved Solids	< 10	mg/l			WG634450 02/01/13 14:	:53	
Cyanide	< .005	mg/l			WG634647 02/01/13 14:	48	
Phosphate,Ortho	< .025	mq/l			WG634587 01/30/13 16:	. 20	
Phosphace, Ortho	< .025	1119/1			WG03458/ U1/3U/13 16:	- 30	
Nitrate-Nitrite	< .1	mg/l			WG634963 02/02/13 14:	: 51	
NICIACE NICIICE	`	mg/ I			WG034303 02/02/13 14.	31	
BOD	0	mq/l			WG634335 02/03/13 09:	:57	
505	· ·	g/ ±			WG031333 02/03/13 03	5,	
Suspended Solids	< 1	mq/l			WG634449 02/04/13 12:	:14	
500F 511050 55 2 2 10 10 10 10 10 10 10 10 10 10 10 10 10		57 =					
Oil & Grease (Hexane Extr)	< 5	mg/l			WG635164 02/04/13 14:	:50	
		<u> </u>					
Specific Conductance	3.00	umhos/cm			WG635000 02/05/13 09:	:31	
Hardness, Total (mg/L as CaCO3)	< 30	mg/l			WG635231 02/05/13 10:	28	

		Dı	uplicate				
Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
Antimony	mg/l	0	0.00550	NA	20	L617511-01	WG634418
Arsenic	mg/l	0	0	0	20	L617511-01	WG634418
Barium	mg/l	0.170	0.160	6.06	20	L617511-01	WG634418
Beryllium	mg/l	0	0	0	20	L617511-01	WG634418
Cadmium	mg/l	0	0.000840	NA	20	L617511-01	WG634418
Calcium	mg/l	77.0	76.6	0.521	20	L617511-01	WG634418
Chromium	mg/l	0	0	0	20	L617511-01	WG634418
Copper	mg/l	0	0.00330	NA	20	L617511-01	WG634418
Lead	mg/l	0	0	0	20	L617511-01	WG634418
Nickel	mg/l	0	0	0	20	L617511-01	WG634418
Selenium	mg/l	0	0	0	20	L617511-01	WG634418
Silver	mg/l	0	0	0	20	L617511-01	WG634418
Sodium	mg/l	21.0	20.6	1.92	20	L617511-01	WG634418
Zinc	mg/l	0.110	0.107	2.76	20	L617511-01	WG634418

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_			plicate			_	
Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
Ammonia Nitrogen	mg/l	1.20	1.40	15.4	20	L617078-01	WG63437
Ammonia Nitrogen	mg/l	0.840	0.850	1.18	20	L617505-02	WG63437
MBAS	mg/l	0	0	0	20	L617678-02	WG63455
Mercury	mg/l	0	0.0000231	16.1	20	L617620-01	WG63452
Chlorine, residual	mg/l	0	0	0	20	L616890-01	WG63462
Phosphorus, Total	mg/l	0	0	0	20	L617451-02	WG63437
Phosphorus, Total	mg/l	4.80	4.90	2.06	20	L617072-01	WG63437
Turbidity	NTU	150.	150.	0	20	L617732-03	WG63479
COD	mg/l	460.	510.	10.3*	5	L617524-03	WG63457
COD	mg/l	540.	540.	0	5	L617058-01	WG63457
Kjeldahl Nitrogen, TKN	mg/l	2.10	2.10	1.89	20	L617195-01	WG63437
Kjeldahl Nitrogen, TKN	mg/l	0	0	0	20	L617287-01	WG63437
Dissolved Solids	mg/l	380.	387.	1.83	5	L617467-01	WG63445
Cyanide	mg/l	0	0	0	20	L617536-02	WG63464
Cyanide	mg/l	0	0	0	20	L617298-02	WG63464
Nitrate-Nitrite	mg/l	0	0.110	NA	20	L617550-01	WG63496
Nitrate-Nitrite	mg/l	1.50	1.60	6.45	20	L617003-02	WG63496
BOD	mg/l	27.0	26.0	2.66	5	L617393-02	WG63433
BOD	mg/l	0	0	0	5	L617451-07	WG63433
BOD	mg/l	3500	3700	4.53	5	L617529-01	WG63433
Suspended Solids	mg/l	1100	1200	8.03*	5	L617505-02	WG63444
Specific Conductance	umhos/cm	220.	220.	0.905	20	L617489-01	WG63500
Specific Conductance	umhos/cm	26000	26000	0.385	20	L618194-01	WG63500
Hardness, Total (mg/L as CaCO3)	mg/l	4700	4700	0	20	L618194-01	WG63523
Hardness, Total (mg/L as CaCO3)	mg/l	200.	200.	0	20	L617287-01	WG63523
		Laboratory	Control Sa	ample			
Analyte	Units	Known Val		Result	% Rec	Limit	Batch
Antimony	mg/l	1	1.0	12	102.	85-115	WG63441
Arsenic	mg/l	1	1.0		101.	85-115	WG63441

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		Laboratory Control Sample					
Analyte	Units	Known Val Result		% Rec	Limit	Batch	
Barium	mg/l	1	1.04	104.	85-115	WG63441	
Beryllium	mg/l	1	1.01	101.	85-115	WG63441	
Cadmium	mg/l	1	1.03	103.	85-115	WG63441	
Calcium	mg/l	10	10.5	105.	85-115	WG63441	
Chromium	mg/l	1	1.03	103.	85-115	WG63441	
Copper	mg/l	1	1.00	100.	85-115	WG63441	
Lead	mg/l	1	1.07	107.	85-115	WG63441	
Nickel	mg/l	1	0.999	99.9	85-115	WG6344	
Selenium	mg/l	1	1.01	101.	85-115	WG6344	
Silver	mg/l	1	1.04	104.	85-115	WG63441	
Sodium	mg/l	10	10.4	104.	85-115	WG63441	
Zinc	mg/l	1	1.01	101.	85-115	WG63441	
Chloride	mg/l	40	39.8	99.5	90-110	WG63431	
Sulfate	mg/l	40	40.0	100.	90-110	WG63431	
Juliace	1119/1	40	40.0	100.	90-110	WG0343.	
Benzene	mg/l	.05	0.0447	89.5	79-114	WG63449	
Ethylbenzene	mg/l	.05	0.0524	105.	80-116	WG63449	
Toluene	mg/l	.05	0.0491	98.3	79-112	WG63449	
Total Xylene	mg/l	.15	0.156	104.	84-118	WG63449	
a,a,a-Trifluorotoluene(PID)	1119/1	.13	0.130	100.6	55-122	WG63449	
a,a,a iiiiiuoiocoiuche(FiD)				100.0	33 122	WGOJ44	
Ammonia Nitrogen	mg/l	7.5	8.01	107.	90-110	WG63437	
MBAS	mg/l	1	0.934	93.4	85-115	WG63455	
Mercury	mg/l	.003	0.00317	106.	85-115	WG63452	
Ob location and add to all		1 10	1 10	0.4.1	05 115	FIG. 2.4.6	
Chlorine,residual	mg/l	1.19	1.12	94.1	85-115	WG63462	
1,2,4-Trichlorobenzene	mg/l	.01	0.00746	74.6	18-130	WG63462	
2,4,6-Trichlorophenol	mg/l	.01	0.00730	73.0	12-147	WG63462	
2,4-Dichlorophenol	mg/l	.01	0.00757	75.7	10-157	WG63462	
2,4-Dimethylphenol	mg/l	.01	0.00729	72.9	19-160	WG63462	
2,4-Dinitrophenol	mg/l	.01	0.00997	99.7	10-135	WG63462	
2,4-Dinitrotoluene	mg/l	.01	0.00808	80.8	30-168	WG63462	
2,6-Dinitrotoluene	mg/l	.01	0.00799	79.9	32-163	WG63462	
2-Chloronaphthalene	mq/l	.01	0.00829	82.9	29-149	WG63462	
2-Chlorophenol	mg/l	.01	0.00677	67.7	16-129	WG63462	
2-Nitrophenol	mq/l	.01	0.00802	80.2	14-158	WG63462	
3,3-Dichlorobenzidine	mg/l	.01	0.00774	77.4	42-150	WG63462	
4,6-Dinitro-2-methylphenol	mg/l	.01	0.00658	65.8	10-164	WG63462	
4-Bromophenyl-phenylether	mg/l	.01	0.00843	84.3	40-166	WG63462	
4-Chloro-3-methylphenol	mg/l	.01	0.00703	70.3	14-158	WG63462	
4-Chlorophenyl-phenylether	mg/l	.01	0.00843	84.3	39-155	WG6346	
4-Nitrophenol	mg/l	.01	0.00317	31.7	10-61	WG63462	
Acenaphthene	mg/l	.01	0.00834	83.4	37-159	WG6346	
Acenaphthene	mg/l	.01	0.00844	84.4	34-162	WG6346	
Anthracene	mg/l	.01	0.00873	87.3	48-167	WG6346	
Renzidine	mg/l	.01	0.00274	27.4	10-86	WG6346	
Benzo(a)anthracene	mg/l	.01	0.00274	85.8	46-167	WG6346	
Benzo(a)anthracene Benzo(a)pyrene	mg/l	.01	0.00826	82.6	39-167	WG63462	
senzo (a) pyrene	IIIG/I	.01	0.00826	82.0	39-10/	WG0346	

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February 06, 2013

		Laboratory Control Sample					
Analyte	Units	Known Val	Result	% Rec	Limit	Batch	
Benzo(b)fluoranthene	mg/l	.01	0.00834	83.4	39-173	WG634	
Benzo(g,h,i)perylene	mg/1	.01	0.00805	80.5	42-181	WG634	
Benzo(k)fluoranthene	mg/l	.01	0.00864	86.4	42-178	WG634	
Senzylbutyl phthalate	mg/l	.01	0.00916	91.6	10-178	WG634	
is(2-chlorethoxy)methane	mg/l	.01	0.00836	83.6	34-155	WG63	
is(2-chloroethyl)ether	mg/l	.01	0.00731	73.1	22-149	WG63	
is(2-chloroisopropyl)ether	mg/l	.01	0.00793	79.3	26-149	WG63	
is(2-ethylhexyl)phthalate			0.0109	109.	42-191	WG63	
	mg/l	.01					
hrysene	mg/l	.01	0.00911	91.1	46-170	WG63	
i-n-butyl phthalate	mg/l	.01	0.00869	86.9	33-175	WG63	
i-n-octyl phthalate	mg/l	.01	0.00912	91.2	40-170	WG63	
ibenz(a,h)anthracene	mg/l	.01	0.00781	78.1	43-187	WG63	
iethyl phthalate	mg/l	.01	0.00878	87.8	10-182	WG63	
imethyl phthalate	mg/l	.01	0.00879	87.9	10-165	WG63	
luoranthene	mg/l	.01	0.00864	86.4	46-171	WG63	
luorene	mg/l	.01	0.00852	85.2	39-163	WG63	
exachloro-1,3-butadiene	mg/l	.01	0.00763	76.3	18-136	WG63	
exachlorobenzene	mg/l	.01	0.00792	79.2	38-163	WG63	
exachlorocyclopentadiene	mg/l	.01	0.00792	79.2	10-142	WG63	
exachloroethane	mg/1	.01	0.00749	74.9	10-130	WG63	
ndeno(1,2,3-cd)pyrene	mg/l	.01	0.00776	77.6	42-184	WG63	
sophorone	mg/l	.01	0.00833	83.3	36-166	WG63	
-Nitrosodi-n-propylamine	mg/l	.01	0.00848	84.8	27-157	WG63	
	mg/l	.01	0.00755	75.5	10-96	WG63	
-Nitrosodimethylamine							
-Nitrosodiphenylamine	mg/l	.01	0.00870	87.0	41-168	WG63	
aphthalene	mg/l	.01	0.00845	84.5	26-147	WG63	
itrobenzene	mg/l	.01	0.00790	79.0	22-154	WG63	
entachlorophenol	mg/l	.01	0.00735	73.5	10-128	WG63	
henanthrene	mg/l	.01	0.00845	84.5	46-163	WG63	
henol	mg/l	.01	0.00357	35.7	10-69	WG63	
yrene	mg/l	.01	0.00889	88.9	45-176	WG63	
,4,6-Tribromophenol				76.90	16-147	WG63	
-Fluorobiphenyl				77.90	29-127	WG63	
-Fluorophenol				44.30	10-75	WG63	
itrobenzene-d5				76.90	17-119	WG63	
henol-d5				30.60	10-63	WG63	
-Terphenyl-d14				82.80	40-174	WG63	
hosphorus,Total	mg/l	1	1.01	101.	90-110	WG63	
urbidity	NTU	40	40.5	101.	90-110	WG63	
_							
OD	mg/l	230	234.	102.	90-110	WG63	
, 4-DDD	mg/l	.0002	0.000158	79.2	60-123	WG63	
,4-DDE	mg/l	.0002	0.000144	72.0	50-120	WG63	
,4-DDT	mg/l	.0002	0.000164	81.9	61-121	WG63	
ldrin	mg/l	.0002	0.0000854	42.7	10-136	WG63	
lpha BHC	mg/l	.0002	0.000155	77.3	58-114	WG63	
eta BHC	mg/l	.0002	0.000154	77.0	61-120	WG63	
elta BHC	mg/l	.0002	0.000154	76.4	57-120	WG63	
ieldrin	mg/l	.0002	0.000133	81.3	62-123	WG63	
	_			79.7			
ndosulfan I	mg/l	.0002	0.000159		63-123	WG63	
ndosulfan II	mg/l	.0002	0.000167	83.4	63-124	WG63	
ndosulfan sulfate	mg/l	.0002	0.000146	72.9	59-125	WG63	

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a,a,a-Trifluorotoluene(PID)

Engineering & Env. Consultants, INC. -AZ John Burton 7878 N. 16th Street, Suite 140

Phoenix, AZ 85020

12065 Lebanon Rd. Mt. Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Quality Assurance Report Level II

L617489

February 06, 2013

WG634494

		Laboratory Control Sample					
Analyte	Units	Known Va		% Rec		Limit	Batch
Endrin		.0002	0.000160	79.9		60-123	WG634514
Endrin aldehyde	mg/l mg/l	.0002	0.000160	79.9		42-92	WG634514
Endrin ketone	mg/l	.0002	0.000139	90.0		42-92 60-117	WG634514
Gamma BHC	mg/l	.0002	0.000157	78.6		59-116	WG634514
Heptachlor	mg/l	.0002	0.000137	50.4		10-131	WG634514
Heptachlor epoxide	mg/l	.0002	0.000101	78.6		61-118	WG634514
Hexachlorobenzene	mg/l	.0002	0.000137	51.0		28-116	WG634514
Methoxychlor	mg/l	.0002	0.000181	90.5		66-122	WG634514
Decachlorobiphenyl	1119/1	.0002	0.000101	98.80		10-141	WG634514
Tetrachloro-m-xylene				70.10		10-125	WG634514
recraemoro m xyrene				70.10		10 125	WGOJ4J14
Kjeldahl Nitrogen, TKN	mg/l	8.55	8.46	98.9		90-110	WG634374
Dissolved Solids	mg/l	8800	8510	96.7		85-115	WG634450
Cyanide	mg/l	.1	0.0975	97.5		90-110	WG634647
Phosphate,Ortho	mg/l	.75	0.849	113.		85-115	WG634587
Nitrate-Nitrite	mg/l	5	5.27	105.		90-110	WG634963
BOD	mg/l	198	199.	101.		84.6-115.4	WG634335
BOD	mg/l	198	187.	94.4		84.6-115.4	WG634335
BOD	mg/l	198	230.	116.*		84.6-115.4	WG634335
BOD	mg/l	198	193.	97.5		84.6-115.4	WG634335
BOD	mg/l	198	180.	90.9		84.6-115.4	WG634335
BOD	mg/l	198	192.	97.0		84.6-115.4	WG634335
Suspended Solids	mg/l	773	752.	97.3		85-115	WG634449
Oil & Grease (Hexane Extr)	mg/l	40	40.2	101.		78-114	WG635164
Specific Conductance	umhos/cm	n 878	899.	102.		85-115	WG635000
Hardness, Total (mg/L as CaCO3)	mg/l	200	209.	105.		85-115	WG635231
	T -	1 G					
Analyte		doratory Con Result Re:	trol Sample Duplicate f	e Limit	RPD	Limit	Batch
Chloride	<u> </u>	19.8 39		90-110	0	20	WG634319
Sulfate	mg/1 4	10.0 40	.0 100.	90-110	0	20	WG634319
Benzene	<u> </u>		0447 92.0	79-114	3.26	20	WG634494
Ethylbenzene			0524 108.	80-116	2.92	20	WG634494
Toluene			0491 101.	79-112	2.69	20	WG634494
Total Xylene	mg/l 0	0.160 0.1	156 107.	84-118	2.38	20	WG634494

101.2

55-122

^{*} Performance of this Analyte is outside of established criteria.

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February 06, 2013

2 1 t	wa. 2 c		Control Sa			DDD	+ 2 m 2 s	D - t -1
Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch
Ammonia Nitrogen	mg/l	7.86	8.01	105.	90-110	1.89	20	WG63437
MBAS	mg/l	0.940	0.934	94.0	85-115	0.640	20	WG63455
Chlorine,residual	mg/l	1.09	1.12	92.0	85-115	2.71	20	WG63462
1,2,4-Trichlorobenzene	mg/l	0.00688	0.00746	69.0	18-130	8.08	32	WG63462
2,4,6-Trichlorophenol	mg/l	0.00814	0.00730	81.0	12-147	10.9	40	WG63462
2,4-Dichlorophenol	mg/l	0.00832	0.00757	83.0	10-157	9.46	40	WG63462
2,4-Dimethylphenol	mg/l	0.00802	0.00729	80.0	19-160	9.46	40	WG63462
2,4-Dinitrophenol	mg/l	0.0107	0.00997	107.	10-135	7.44	40	WG63462
2,4-Dinitrotoluene	mg/l	0.00821	0.00808	82.0	30-168	1.59	32	WG63462
2,6-Dinitrotoluene	mg/l	0.00833	0.00799	83.0	32-163	4.14	30	WG63462
2-Chloronaphthalene	mg/l	0.00790	0.00829	79.0	29-149	4.78	34	WG63462
2-Chlorophenol	mg/l	0.00739	0.00677	74.0	16-129	8.79	40 40	WG63462
2-Nitrophenol 3,3-Dichlorobenzidine	mg/l	0.00835	0.00802 0.00774	83.0 80.0	14-158 42-150	3.96 2.92	40 29	WG63462 WG63462
4,6-Dinitro-2-methylphenol	mg/l mg/l	0.00797	0.00658	76.0	10-164	14.7	40	WG63462
4-Bromophenyl-phenylether	mg/l	0.00788	0.00843	79.0	40-166	6.70	36	WG63462
4-Chloro-3-methylphenol	mg/l	0.00788	0.00703	81.0	14-158	14.0	40	WG63462
4-Chlorophenyl-phenylether	mg/l	0.00818	0.00843	82.0	39-155	2.97	33	WG63462
4-Nitrophenol	mg/1	0.00346	0.00317	34.0	10-61	8.71	40	WG63462
Acenaphthene	mg/1	0.00812	0.00834	81.0	37-159	2.66	30	WG63462
Acenaphthylene	mg/l	0.00822	0.00844	82.0	34-162	2.69	31	WG63462
Anthracene	mg/l	0.00881	0.00873	88.0	48-167	0.890	26	WG63462
Benzidine	mg/l	0.00261	0.00274	26.0	10-86	5.02	40	WG63462
Benzo(a)anthracene	mg/l	0.00889	0.00858	89.0	46-167	3.64	29	WG63462
Benzo(a)pyrene	mg/l	0.00790	0.00826	79.0	39-167	4.37	29	WG63462
Benzo(b)fluoranthene	mg/l	0.00819	0.00834	82.0	39-173	1.76	32	WG63462
Benzo(g,h,i)perylene	mg/l	0.00794	0.00805	79.0	42-181	1.43	30	WG63462
Benzo(k)fluoranthene	mg/l	0.00904	0.00864	90.0	42-178	4.50	33	WG63462
Benzylbutyl phthalate	mg/l	0.00989	0.00916	99.0	10-178	7.73	40	WG63462
Bis(2-chlorethoxy)methane	mg/l	0.00805	0.00836	80.0	34-155	3.86	31	WG63462
Bis(2-chloroethyl)ether	mg/l	0.00815	0.00731	81.0	22-149	10.9	38	WG63462
Bis(2-chloroisopropyl)ether	mg/l	0.00757	0.00793	76.0	26-149	4.67	34	WG63462
Bis(2-ethylhexyl)phthalate	mg/l	0.0121	0.0109	121.	42-191	10.5	33	WG63462
Chrysene	mg/l	0.00899	0.00911	90.0	46-170	1.32	30	WG63462
Di-n-butyl phthalate	mg/l	0.00882	0.00869	88.0	33-175 40-170	1.47 7.32	39 28	WG63462
Di-n-octyl phthalate	mg/l	0.00981	0.00912	98.0		2.22	31	WG63462 WG63462
Dibenz(a,h)anthracene Diethyl phthalate	mg/l mg/l	0.00764	0.00781	76.0 85.0	43-187 10-182	2.22	35	WG63462
Dimethyl phthalate	mg/l	0.00833	0.00878	88.0	10-165	0.270	37	WG63462
Fluoranthene	mg/l	0.00879	0.00864	88.0	46-171	1.73	37	WG63462
Fluorene	mg/l	0.00862	0.00852	86.0	39-163	1.16	36	WG63462
Hexachloro-1,3-butadiene	mg/l	0.00733	0.00763	73.0	18-136	3.95	30	WG63462
Hexachlorobenzene	mq/l	0.00786	0.00792	78.0	38-163	0.810	35	WG63462
Hexachlorocyclopentadiene	mg/1	0.00766	0.00792	77.0	10-142	3.33	40	WG63462
Hexachloroethane	mq/l	0.00722	0.00749	72.0	10-130	3.68	39	WG63462
Indeno(1,2,3-cd)pyrene	mg/1	0.00778	0.00776	78.0	42-184	0.220	32	WG63462
Isophorone	mg/1	0.00808	0.00833	81.0	36-166	3.01	35	WG63462
n-Nitrosodi-n-propylamine	mg/l	0.00803	0.00848	80.0	27-157	5.48	31	WG63462
n-Nitrosodimethylamine	mg/l	0.00625	0.00755	62.0	10-96	18.7	36	WG63462
n-Nitrosodiphenylamine	mg/l	0.00882	0.00870	88.0	41-168	1.40	37	WG63462
Naphthalene	mg/l	0.00790	0.00845	79.0	26-147	6.72	31	WG63462
Nitrobenzene	mg/l	0.00741	0.00790	74.0	22-154	6.45	37	WG63462

Performance of this Analyte is outside of established criteria. For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



Engineering & Env. Consultants, INC. -AZ John Burton 7878 N. 16th Street, Suite 140 $\,$

Level : Phoenix, AZ 85020

Quality Assurance Report Level II

February 06, 2013 L617489

12065 Lebanon Rd. Mt. Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Analyte		Result	Ref	mple Duplicat %Rec	Limit	RPD	Limit	Batch
Analyte	Units	Result	REL	*REC	THIIT	KPD	TIMIT	вассп
Pentachlorophenol	mg/l	0.00812	0.00735	81.0	10-128	9.94	40	WG634
Phenanthrene	mg/1	0.00830	0.00845	83.0	46-163	1.78	29	WG634
Phenol	mg/1	0.00376	0.00357	38.0	10-69	5.23	40	WG634
Pyrene	mg/l	0.00887	0.00889	89.0	45-176	0.240	28	WG634
2,4,6-Tribromophenol	3/ =	0.00007	0.0000	82.70	16-147	0.210	20	WG634
2-Fluorobiphenyl				73.60	29-127			WG634
2-Fluorophenol				46.00	10-75			WG634
Nitrobenzene-d5				73.80	17-119			WG634
Phenol-d5				32.10	10-63			WG634
o-Terphenyl-d14				81.70	40-174			WG634
Phosphorus, Total	mg/l	1.01	1.01	101.	90-110	0	20	WG6343
Turbidity	NTU	40.2	40.5	100.	90-110	0.743	20	WG634
COD	mg/l	237.	234.	103.	90-110	1.27	5	WG634
202	3/ =	237.	201.	100.	30 110	1.27	J	110001
4,4-DDD	mg/l	0.000166	0.000158	83.0	60-123	4.47	20	WG634
1,4-DDE	mg/l	0.000153	0.000144	76.0	50-120	5.75	22	WG634
4,4-DDT	mg/l	0.000173	0.000164	86.0	61-121	5.30	20	WG634
Aldrin	mg/l	0.000103	0.0000854	52.0	10-136	18.9	33	WG634
Alpha BHC	mg/l	0.000165	0.000155	82.0	58-114	6.23	21	WG634
Beta BHC	mg/l	0.000162	0.000154	81.0	61-120	4.80	20	WG634
Delta BHC	mg/l	0.000158	0.000153	79.0	57-120	3.53	21	WG634
Dieldrin	mg/l	0.000170	0.000163	85.0	62-123	4.48	20	WG634
Endosulfan I	mg/l	0.000167	0.000159	84.0	63-123	4.84	20	WG634
Endosulfan II	mg/l	0.000170	0.000167	85.0	63-124	1.72	20	WG634
Endosulfan sulfate	mg/l	0.000142	0.000146	71.0	59-125	2.41	21	WG634
Indrin	mg/l	0.000168	0.000160	84.0	60-123	4.81	20	WG634
Endrin aldehyde	mg/l	0.000154	0.000159	77.0	42-92	3.42	21	WG634
Endrin ketone	mg/l	0.000181	0.000180	90.0	60-117	0.480	20	WG634
Gamma BHC	mg/l	0.000166	0.000157	83.0	59-116	5.51	20	WG634
Heptachlor	mg/l	0.000115	0.000101	58.0	10-131	13.4	28	WG634
Heptachlor epoxide	mg/l	0.000165	0.000157	82.0	61-118	4.87	20	WG634
Hexachlorobenzene	mg/l	0.000116	0.000102	58.0	28-116	12.5	27	WG634
Methoxychlor	mg/l	0.000186	0.000181	93.0	66-122	2.72	20	WG634
Decachlorobiphenyl	J.			101.0	10-141			WG634
Tetrachloro-m-xylene				73.90	10-125			WG634
Kjeldahl Nitrogen, TKN	mg/l	8.26	8.46	97.0	90-110	2.39	20	WG634
Dissolved Solids	mg/l	8510	8510	97.0	85-115	0	5	WG634
Cyanide	mg/l	0.102	0.0975	102.	90-110	4.51	20	WG634
	_							
Phosphate,Ortho	mg/l	0.845	0.849	113.	85-115	0.472	20	WG634
Nitrate-Nitrite	mg/l	5.34	5.27	107.	90-110	1.32	20	WG634

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February 06, 2013

	т	ahoratory	Control Sam	nla Dunl	icate				
Analyte	Units		Ref	%Rec	icacc	Limit	RPD	Limit	Batch
-									
Suspended Solids	mg/l	748.	752.	97.0		85-115	0.533	5	WG634449
Oil & Grease (Hexane Extr)	mg/l	39.8	40.2	100.		78-114	1.00	20	WG635164
Specific Conductance	umhos/	900.	899.	102.		85-115	0.111	20	WG635000
Hardness, Total (mg/L as CaCO3)	mg/l	210.	209.	105.		85-115	0.477	20	WG635231
		1	Matrix Spik	e					
Analyte	Units	MS Res	Ref Res	TV	% Rec	Limit		Ref Samp	Batch
	/ 7	1 00	0.00550	1	100	EE 105		T C 1 E E 1 1 0 1	************
Antimony	mg/l	1.03	0.00550	1	102.	75-125		L617511-01	WG634418
Arsenic	mg/l	1.01	0	1	101.	75-125		L617511-01	WG634418
Barium	mg/l	1.19	0.160	1	103.	75-125		L617511-01	WG634418
Beryllium	mg/l	1.03	0	1	103.	75-125		L617511-01	WG634418
Cadmium	mg/l	1.02	0.000840	1	102.	75-125		L617511-01	WG634418
Calcium	mg/l	86.6	76.6	10	100.	75-125		L617511-01	WG634418
Chromium	mg/1	1.02	0	1	102.	75-125		L617511-01	WG634418
Copper	mg/1	1.00	0.00330	1	99.7	75-125		L617511-01	WG634418
Lead	mg/l	1.04	0	1	104.	75-125		L617511-01	WG634418
Nickel	mg/l	0.988	0	1	98.8	75-125		L617511-01	WG634418
Selenium	mg/l	1.03	0	1	103.	75-125		L617511-01	WG634418
Silver	mg/l	1.03	0	1	103.	75-125		L617511-01	WG634418
Sodium	mg/l	30.8	20.6	10	102.	75-125		L617511-01	WG634418
Zinc	mg/l	1.10	0.107	1	99.3	75-125		L617511-01	WG634418
Denzene	/ T	0.0440	0 000300	٥٢	87.2	35-147		T C17F40 0C	WG634494
Benzene	mg/l		0.000390	.05				L617548-06	
Ethylbenzene	mg/l	0.0520	0.00120	.05	102.	39-141		L617548-06	WG634494
Toluene	mg/l	0.0473	0	.05	94.7	35-148		L617548-06	WG634494
Total Xylene	mg/1	0.151	0.000640	.15	100.	33-151		L617548-06	WG634494
a,a,a-Trifluorotoluene(PID)					100.4	55-122			WG634494
Ammonia Nitrogen	mg/l	5.09	0.340	5	95.0	90-110		L617489-01	WG634372
MBAS	mg/l	1.18	0.200	1	98.0	80-120		L617677-01	WG634555
Mercury	mg/l	0.00343	0.0000231	.003	114.	75-125		L617620-01	WG634524
Phosphorus, Total	mg/l	2.41	0	2.5	96.4	90-110		L617451-01	WG634373
COD	mg/l	417.	13.0	400	101.	90-110		L617078-01	WG634576
Kjeldahl Nitrogen, TKN	mg/l	5.96	1.50	5	89.2*	90-110		L617078-01	WG634374
Cyanide	mg/l	0.203	0	. 2	102.	90-110		L617432-01	WG634647
-,	5 / 1	0.203	Ü		102.	J0 110			
Phosphate,Ortho * Performance of this Analyte is of	mg/l outside o	0.512 of establis	0 hed criteri	.5 a.	102.	80-120		L617642-06	WG634587

Performance of this Analyte is outside of established criteria. For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



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			Matrix	Spike					
Analyte	Units	MS Res	Ref R	les TV	% Rec	Limit		Ref Samp	Batch
	(3	11 0	F 00	-	104	00 110		7.61.500.4.01	***********
Nitrate-Nitrite	mg/l	11.0	5.80	5	104.	90-110)	L617034-01	WG634963
Hardness, Total (mg/L as CaCO3)	mg/l	169.	0	150	113.	80-120)	L617633-01	WG635231
		24 - 1-	C	Down 1 days have					
Analyte	Units	MSD Mat	rix Spike Ref	Duplicate %Rec	Limit	RPD	Timit	Ref Samp	Batch
Allalyce	UIIILS	MSD	KEL	3KEC	ПТШТС	RPD	דווודר	. Kei samp	Batten
Antimony	mg/l	1.03	1.03	102.	75-125	0	20	L617511-01	WG634418
Arsenic	mg/l	1.01	1.01	101.	75-125	0	20	L617511-01	WG634418
Barium	mg/l	1.20	1.19	104.	75-125	0.837	20	L617511-01	WG634418
Beryllium	mg/l	1.02	1.03	102.	75-125	0.976	20	L617511-01	WG634418
Cadmium	mg/l	1.02	1.02	102.	75-125	0	20	L617511-01	WG634418
Calcium	mg/l	86.2	86.6	96.0	75-125	0.463	20	L617511-01	WG634418
Chromium	mg/l	1.03	1.02	103.	75-125	0.976	20	L617511-01	WG634418
Copper	mg/l	1.01	1.00	101.	75-125	0.995	20	L617511-01	WG634418
Lead	mg/l	1.06	1.04	106.	75-125	1.90	20	L617511-01	WG634418
Nickel	mg/l	0.990	0.988	99.0	75-125	0.202	20	L617511-01	WG634418
Selenium	mg/l	1.04	1.03	104.	75-125	0.966	20	L617511-01	WG634418
Silver	mg/l	1.04	1.03	104.	75-125	0.966	20	L617511-01	WG634418
Sodium	mg/l	31.0	30.8	104.	75-125	0.647	20	L617511-01	WG634418
Zinc	mg/l	1.11	1.10	100.	75-125	0.905	20	L617511-01	WG634418
Benzene	mg/l	0.0468	0.0440	92.8	35-147	6.23	20	L617548-06	WG634494
Ethylbenzene	mg/l	0.0549	0.0520	107.	39-141	5.30	20	L617548-06	WG634494
Toluene	mg/l	0.0505	0.0473	101.	35-148	6.37	20	L617548-06	WG634494
Total Xylene	mg/l	0.161	0.151	107.	33-151	6.32	20	L617548-06	WG634494
a,a,a-Trifluorotoluene(PID)	5/ =			100.5	55-122				WG634494
.,.,.									
Ammonia Nitrogen	mg/l	5.23	5.09	97.8	90-110	2.71	20	L617489-01	WG634372
MBAS	mg/l	1.20	1.18	100.	80-120	1.68	20	L617677-01	WG634555
Mercury	mg/l	0.00299	0.00343	98.8	75-125	13.8	30	L617620-01	WG634524
Phosphorus, Total	mg/l	2.48	2.41	99.2	90-110	2.86	20	L617451-01	WG634373
COD	mg/l	416.	417.	101.	90-110	0.240	5	L617078-01	WG634576
COD	1119/1	110.	11/.	101.	JU 110	0.210	3	1017070 01	WG031370
Kjeldahl Nitrogen, TKN	mg/l	5.96	5.96	89.2*	90-110	0	20	L617078-01	WG634374
Cyanide	mg/l	0.201	0.203	100.	90-110	0.990	20	L617432-01	WG634647
Phosphate,Ortho	mg/l	0.513	0.512	103.	80-120	0.195	20	L617642-06	WG634587
Nitrate-Nitrite	mg/l	11.0	11.0	104.	90-110	0	20	L617034-01	WG634963
Hardness, Total (mg/L as CaCO3)	mg/l	169.	169.	113.	80-120	0	20	L617633-01	WG635231

^{*} Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



Phoenix, AZ 85020

Engineering & Env. Consultants, INC. -AZ John Burton 7878 N. 16th Street, Suite 140

Quality Assurance Report

12065 Lebanon Rd. Mt. Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615) 758-5859

Tax I.D. 62-0814289

February 06, 2013

Est. 1970

L617489

Serial Dilution

Level II

Batch number /Run number / Sample number cross reference

WG634418: R2521997: L617489-01 WG634319: R2522877: L617489-01 WG634494: R2523177: L617489-01 WG634372: R2523197: L617489-01 WG634555: R2523377: L617489-01 WG634524: R2523460: L617489-01 WG634625: R2524278: L617489-01 WG634623: R2524857: L617489-01 WG634373: R2525198: L617489-01 WG634793: R2525358: L617489-01 WG634576: R2525498: L617489-01 WG634514: R2525699: L617489-01 WG634374: R2525701: L617489-01 WG634450: R2525937: L617489-01 WG634647: R2526177: L617489-02 WG634620: R2526338: L617489-02 WG634587: R2526438: L617489-01 WG634963: R2526682: L617489-01 WG634335: R2527239: L617489-01 WG634449: R2527521: L617489-01 WG635192: R2527841: L617489-02 WG635164: R2527917: L617489-02 WG635000: R2528817: L617489-01 WG635231: R2528940: L617489-01 WG635274: R2529137: L617489-02

^{* *} Calculations are performed prior to rounding of reported values.

^{*} Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



Engineering & Env. Consultants, INC. -AZ John Burton 7878 N. 16th Street, Suite 140

Phoenix, AZ 85020

Quality Assurance Report Level II

L617489

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

12065 Lebanon Rd. Mt. Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

February 06, 2013

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7878 N. 16th St., Suite 140)													Prepa	red by:		2036	
Phoenix, AZ 85020			E-mail to: +	(irk Greswick John Gu Greswiek@ee Rhon @ C	ophx.com ec(lux.com	4					9	"Meke		3	S S O	IVIRONN cience c 065 Leban Juliet TN	orp on Road	
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PHONE:602-248-7702 FAX: 602-248-7851	, , , , , , , , , , , , , , , , , , , ,	032, 2		Lab Project #	ENGENVPA	<u>7</u> .			4	**	2						767-5859 5)758-5859	
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Tax I.D. 62-0814289

Est. 1970

John Burton Engineering & Env. Consultants, INC. -AZ 7878 N. 16th Street, Suite 140 Phoenix, AZ 85020

Report Summary

Monday October 22, 2012

Report Number: L600743 Samples Received: 10/13/12 Client Project: 308032.20

Description: ADOT Flagstaff Stormwater

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Daphne Richards , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197, FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704/BIO041, ND - R-140. NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1, TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

This report may not be reproduced, except in full, without written approval from ESC Lab Sciences. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



John Burton

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Est. 1970

REPORT OF ANALYSIS

October 22, 2012

Engineering & Env. Consultants, INC 7878 N. 16th Street, Suite 140 Phoenix, AZ 85020

ESC Sample # : L600743-01

Project #: 308032.20

Date Received : October 13, 2012
Description : ADOT Flagstaff Stormwater

Site ID : Sample ID : FLAG101212

Collected By : John Burton Collection Date : 10/12/12 10:43

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloride Nitrate Nitrite Sulfate	14. 0.63 0.19 BDL	1.0 0.10 0.10 5.0	mg/l mg/l mg/l mg/l	300.0 300.0 300.0 300.0	10/18/12 10/13/12 10/13/12 10/13/12	1 1 1
BOD	BDL	5.00	mg/l	SM5210B	10/18/12	1
Chlorine, Total	BDL	0.10	mg/l	4500Cl-G	10/19/12	1
COD	44.	10.	mg/l	410.4	10/19/12	1
Cyanide	BDL	0.0050	mg/l	4500CN-E	10/17/12	1
Hardness, Total (mg/L as CaCO3)	67.	30.	mg/l	130.1	10/19/12	1
MBAS	0.13	0.10	mg/l	5540C	10/17/12	1
Ammonia Nitrogen	0.12	0.10	mg/l	350.1	10/22/12	1
Oil & Grease (Hexane Extr)	BDL	5.0	mg/l	1664A	10/16/12	1
Phosphate,Ortho	0.18	0.025	mg/l	4500P-E	10/13/12	1
Phosphorus, Total	0.34	0.10	mg/l	365.1	10/18/12	1
E.Coli Coliform,Total	<9700 <9700	4.0 4.0	MPN/100ml MPN/100ml	9223B 9223B	10/13/12 10/13/12	4 4
Specific Conductance	160		umhos/cm	120.1	10/16/12	1
Kjeldahl Nitrogen, TKN	1.1	0.10	mg/l	351.2	10/17/12	1
Turbidity	33.	0.10	NTU	SM2130B	10/13/12	1
Dissolved Solids	100	10.	mg/l	2540C	10/19/12	1
Suspended Solids	95.	1.0	mg/l	2540D	10/19/12	1
Mercury	BDL	0.00020	mg/l	245.1	10/18/12	1
Antimony Arsenic Barium Beryllium	BDL BDL 0.070 BDL	0.020 0.020 0.0050 0.0020	mg/l mg/l mg/l mg/l	200.7 200.7 200.7 200.7	10/19/12 10/19/12 10/19/12 10/19/12	1 1 1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)



John Burton

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

October 22, 2012

Engineering & Env. Consultants, INC 7878 N. 16th Street, Suite 140

Phoenix, AZ 85020

ESC Sample # : L600743-01

Project #: 308032.20

Date Received : October 13, 2012

: ADOT Flagstaff Stormwater Description

Site ID : : FLAG101212 Sample ID

Collected By : John Burton

Collection Date : 10/12/12 10:43

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Cadmium	BDL	0.0050	mq/l	200.7	10/19/12	1
Calcium	18.	0.50	mg/l	200.7	10/19/12	1
Chromium	BDL	0.010	mq/l	200.7	10/19/12	1
Copper	BDL	0.020	mg/l	200.7	10/19/12	1
Lead	BDL	0.0050	mg/l	200.7	10/19/12	1
Nickel	BDL	0.020	mg/l	200.7	10/19/12	1
Selenium	BDL	0.020	mg/l	200.7	10/19/12	1
Silver	BDL	0.010	mg/l	200.7	10/19/12	1
Sodium	13.	0.50	mg/l	200.7	10/19/12	1
Zinc	0.085	0.030	mg/l	200.7	10/19/12	1
TPH (GC/FID) High Fraction Surrogate recovery(%)	0.86	0.10	mg/l	3510C / DRO	10/22/12	1
o-Terphenyl	108.		% Rec.	3510C / DRO	10/22/12	1

BDL - Below Detection Limit Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted. This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 10/22/12 13:31 Printed: 10/22/12 13:31

Attachment A List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L600743-01	WG617975 WG617975 WG618322 WG618672 WG618077 WG618949	SAMP SAMP SAMP SAMP SAMP SAMP	E.Coli Coliform, Total MBAS Chlorine, Total Oil & Grease (Hexane Extr) Ammonia Nitrogen	R2392139 R2392139 R2396617 R2399137 R2391798 R2401819	T8 T8 T8 T8 T8 L3 P1

Attachment B Explanation of QC Qualifier Codes

Qualifier	Meaning
L3	(ESC) Sample reanalysis and/or spiking could not be performed due to lack of additional volume.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
Т8	(ESC) - Additional method/sample information: Sample(s) received past/too close to holding time expiration.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

- Accuracy The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision The agreement between a set of samples or between duplicate samples.

 Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed 10/22/12 at 13:31:41

TSR Signing Reports: 288 R5 - Desired TAT

Baker Exxon Proj 105022.01 Ken & Mel's Proj 105022.02 MCAA Proj 305007.05 -ALL require TO-15+GRO on ALL AIR SAMPLES

Sample: L600743-01 Account: ENGENVPAZ Received: 10/13/12 10:00 Due Date: 10/19/12 00:00 RPT Date: 10/22/12 13:31

Company Name/Address		··	Alternate B	illing				Analy	/sis/Co	ontaine	er/Pre	serva	live	_	A07	0			Custody	Î
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Tax I.D. 62-0814289

Est. 1970

John Burton Engineering & Env. Consultants, INC. -AZ 7878 N. 16th Street, Suite 140 Phoenix, AZ 85020

Report Summary

Sunday December 30, 2012

Report Number: L612346 Samples Received: 12/20/12 Client Project: 308032.19

Description: DURANGO SIGN FACTORY

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Daphne Richards , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197, FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704/BIO041, ND - R-140. NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1, TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

This report may not be reproduced, except in full, without written approval from ESC Lab Sciences. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

December 30, 2012

John Burton Engineering & Env. Consultants, INC 7878 N. 16th Street, Suite 140

Phoenix, AZ 85020

ESC Sample # : L612346-01

Project #: 308032.19

Site ID : DURANGO SIGN FACTORY

December 20, 2012
DURANGO SIGN FACTORY Date Received : Description

Sample ID : DUR 121912

Collected By : Rick S

Collection Date : 12/19/12 09:28

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Nitrate-Nitrite	0.65	0.10	mg/l	353.2	12/28/12	1
Suspended Solids	250	1.0	mg/l	2540D	12/25/12	1
Aluminum Iron	2.1 2.4	0.10 0.10	mg/l mg/l	6010B 6010B	12/29/12 12/29/12	1 1
Zinc	0.91	0.030	mq/1	6010B	12/29/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted. This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 12/30/12 07:45 Printed: 12/30/12 07:45

Summary of Remarks For Samples Printed 12/30/12 at 07:45:36

TSR Signing Reports: 288 R5 - Desired TAT

Baker Exxon Proj 105022.01 Ken & Mel's Proj 105022.02 MCAA Proj 305007.05 -ALL require TO-15+GRO on ALL AIR SAMPLES ENGENVPAZ-122012S NO CHARGE TBs

Sample: L612346-01 Account: ENGENVPAZ Received: 12/20/12 10:00 Due Date: 12/28/12 00:00 RPT Date: 12/30/12 07:45



Engineering & Env. Consultants, INC. -AZ John Burton 7878 N. 16th Street, Suite 140 $\,$

Phoenix, AZ 85020

12065 Lebanon Rd. Mt. Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Quality Assurance Report Level II

L612346

December 30, 2012

			boratory Bl							
Analyte	Result	U:	nits	% Rec		Limit		Batch	Date	Analyzed
Suspended Solids	< 1	m	g/l					WG629487	12/2	5/12 07:1
Nitrate-Nitrite	< .1	m	g/l					WG630123	12/28	3/12 08:5
Aluminum	< .1		g/l					WG630275		
Iron	< .1		g/l					WG630275		,
Zinc	< .03	m	g/l					WG630275	12/29	9/12 03:4
			Duplicate	9						
Analyte	Units	Result	Duplio	cate	RPD	Limit		Ref Sam	р	Batch
Suspended Solids	mg/l	36.0	37.0		2.74	5		L612189	-01	WG62948
Suspended Solids	mg/l	2.20	2.25		0	5		L612288		WG62948
Nitrate-Nitrite	mq/l	0	0		0	20		L612159	0.1	WG63012
Nitrate-Nitrite	mg/1	0.160	0.160		0	20		L612159		WG63012
	_									
Aluminum	mg/l	0	0		0	20		L612305		WG6302
Iron Zinc	mg/l mg/l	0	0 0.0012	20	0 NA	20 20		L612305 L612305		WG63027
ZIIIC	1119/1	0	0.0012	50	NA .	20		H012303	20	WG0302
Day of Books	The Area		tory Contro	_		9 D		* 11 to		D. tl.
Analyte	Units	Known	Val	Resu	110	% Rec		Limit		Batch
Suspended Solids	mg/l	773		764.		98.8		85-115		WG62948
Nitrate-Nitrite	mg/l	5		5.29		106.		90-110		WG63012
Aluminum	mg/l	1.11		1.12		101.				
Iron				1.14		TOT.		85-115		WG63027
	mg/l	1.11		1.06		95.5		85-115		WG63027
Zinc	mg/l mg/l	1.11 1.11								
zinc	mg/l		Control Sar	1.06 1.09	plicate	95.5		85-115		WG63027
	mg/l	1.11	Control Sar Ref	1.06 1.09	plicate	95.5	RPD	85-115 85-115	mit	WG63027
	mg/l	1.11 Laboratory		1.06 1.09 mple Dur	plicate	95.5 98.2	RPD 1.04	85-115 85-115	mit	WG63027 WG63027
Analyte	mg/l Units	1.11 Laboratory Result	Ref	1.06 1.09 mple Dur %Rec	plicate	95.5 98.2 Limit		85-115 85-115 Li		WG63027 WG63027 Batch
Analyte Suspended Solids	mg/l Units mg/l	1.11 Laboratory Result 772.	Ref 764. 5.29	1.06 1.09 mple Dur %Rec 100.	plicate	95.5 98.2 Limit 85-115	1.04	85-115 85-115 Li		WG63027 WG63027 Batch WG62948
Analyte Suspended Solids Nitrate-Nitrite	mg/l Units mg/l	1.11 Laboratory Result 772.	764.	1.06 1.09 mple Dur %Rec 100.	plicate % Rec	95.5 98.2 Limit 85-115	1.04	85-115 85-115 Li		WG63027 WG63027 Batch WG62948
Analyte Suspended Solids Nitrate-Nitrite Analyte	mg/l Units mg/l mg/l	1.11 Laboratory Result 772. 5.50	Ref 764. 5.29 Matrix Spil	1.06 1.09 mple Dur %Rec 100. 110.		95.5 98.2 Limit 85-115 90-110	1.04	85-115 85-115 Li:		WG6302' Batch WG62948 WG63012' Batch
Analyte Suspended Solids Nitrate-Nitrite Analyte Nitrate-Nitrite	mg/l Units mg/l units mg/l	1.11 Laboratory Result 772. 5.50 MS Res	Ref 764. 5.29 Matrix Spik Ref Res	1.06 1.09 mple Dur %Rec 100. 110. ke TV	% Rec	95.5 98.2 Limit 85-115 90-110 Limit	1.04	85-115 85-115 Li: 5 20 Ref Samp L612159-	02	WG63027 Batch WG62948 WG63012 Batch WG63012
Analyte Suspended Solids	mg/l Units mg/l mg/l Units	1.11 Laboratory Result 772. 5.50 MS Res	Ref 764. 5.29 Matrix Spil Ref Res	1.06 1.09 mple Dur %Rec 100. 110.	% Rec	95.5 98.2 Limit 85-115 90-110	1.04 3.89	85-115 85-115 Li 5 20	02	WG63027 WG63027 Batch WG62948 WG63012

^{*} Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



Engineering & Env. Consultants, INC. -AZ John Burton 7878 N. 16th Street, Suite 140 $\,$

Phoenix, AZ 85020

12065 Lebanon Rd. Mt. Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Quality Assurance Report Level II

L612346

December 30, 2012

		Mat	crix Spike	Duplicate					
Analyte	Units	MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Nitrate-Nitrite	mg/l	5.00	5.05	100.	90-110	0.995	20	L612159-02	WG630123
Aluminum	mg/l	1.12	1.16	101.	75-125	3.51	20	L612305-28	WG630275
Iron	mg/l	1.05	1.06	94.6	75-125	0.948	20	L612305-28	WG630275
Zinc	mg/l	1.08	1.09	97.2	75-125	0.922	20	L612305-28	WG630275

Batch number /Run number / Sample number cross reference

WG629487: R2491751: L612346-01 WG630123: R2494097: L612346-01 WG630275: R2495186: L612346-01

 $^{^{\}star}$ * Calculations are performed prior to rounding of reported values.

^{*} Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



Engineering & Env. Consultants, INC. -AZ John Burton 7878 N. 16th Street, Suite 140

Phoenix, AZ 85020

Quality Assurance Report Level II

L612346

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

12065 Lebanon Rd. Mt. Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615) 758-5859

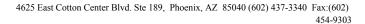
Tax I.D. 62-0814289

Est. 1970

December 30, 2012

Company Name/Address			Alternate B	lling				Anal	ysis/C	ontain	er/Pre	eser		Chain of Custody
EEC													J. 14	Page1_of1_
7878 N. 16th St., Suite 140 PHOENIX, AZ 85020														Prepared by:
			Report to:	John Bu burton	@ eecpy	Cory	H2SO4 ≺≺		HNO3 22					ENVIRONMENTAL SCIENCE CORP 12065 Lebanon Road Mt. Juliet TN 37122
Project Description: Durango Sign Fa	-				State Collected:		H29			.4.7				Phone (615)758-5858
PHONE:602-248-7702	Client Project I	No.		Lab Project #) PE		d d					Phone (800) 767-5859
FAX: 602-248-7851	30803						」불	res	=					. FAX (615)758-5859
Collected by: Collected by(signature):	Site/Facility ID:	s Sign F	Tactory	P.O.#			250ml HDPE	No Pres	500ml HDPE					CoCode (lab use only)
D. E. D.		ab MUST be Next Day 「wo Day	100%	Date Result	lo_X_Yes	No df	Nitrate+Nitrite 2	1L HDPE	Al, Fe, Zn					ENGENVPAZ Template/Prelogin
Packed on Ice NY		Three Day	25%	FAX?N	oYes	4	rate	l	tal /					Shipped Via:
Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	Cntrs	ž	TSS	Total					Remarks/contaminant Sample # (lab only)
Dur 12/9/2	Grab	SW		12-19.12	9.28	3	١	1)					4612346.0)
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Matrix: SS-Soil/Solid GW-Groundwa	ter WW-Wa	stewater D)W-Drinking V	Vater OT-O	ther SW	Sto	rmu	nade (-			Fle	pH_ ow	Temp Other
Relinguisher by:(Signature	Date: 12.19.12	452	Received by:(5	Signature)			1	es retu 5 4	rned via		X_WP	s_ot 入4		Condition J (lab use only)
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LABORATORY REPORT

Prepared For: Engineering and Environmental Consultants Phoenix Project: 308032.19

7878 N. 16th Street, Suite 140

Phoenix, AZ 85020 Attention: John Burton

Sampled: 08/24/12 Received: 08/24/12 Issued: 08/31/12 14:41

NELAP #01109CA / AZ100001 Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID CLIENT ID MATRIX
PVH1953-01 DUR-082412 Water

SAMPLE RECEIPT: Samples were received intact, at 26°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica

Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

Reviewed By:

TestAmerica Phoenix

Kylie Emily Project Manager



4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Engineering and Environmental Consultants Phoenix Project ID: 308032.19

7878 N. 16th Street, Suite 140
Phoenix, AZ 85020
Report Number: PVH1953
Sampled: 08/24/12
Received: 08/24/12

Attention: John Burton

TOTAL METALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVH1953-01 (DUR-082412 - Wa	ater)							
Reporting Units: mg/l								
Aluminum	EPA 200.7	12H1356	0.20	0.28	1	8/30/2012	8/31/2012	
Iron	EPA 200.7	12H1356	0.10	0.25	1	8/30/2012	8/31/2012	
Zinc	EPA 200.7	12H1356	0.050	0.19	1	8/30/2012	8/31/2012	



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Report Number: PVH1953
Sampled: 08/24/12
Received: 08/24/12

Attention: John Burton

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVH1953-01 (DUR-082412 - Wa	ter)							
Reporting Units: mg/l								
Nitrate-N	EPA 300.0	12H1067	0.20	0.28	1	8/24/2012	8/25/2012	
Nitrite-N	EPA 300.0	12H1067	0.20	ND	1	8/24/2012	8/25/2012	
Total Nitrate plus Nitrite (300.0)	Calculation	[CALC]	0.40	ND	1	8/24/2012	8/25/2012	



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7878 N. 16th Street, Suite 140
Phoenix, AZ 85020
Report Number: PVH1953
Sampled: 08/24/12
Received: 08/24/12

Attention: John Burton

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: DUR-082412 (PVH1953-01) - W	'ater				
Calculation	2	08/24/2012 09:00	08/24/2012 10:52	08/24/2012 16:30	08/25/2012 00:36
EPA 300.0	2	08/24/2012 09:00	08/24/2012 10:52	08/24/2012 16:30	08/25/2012 00:36



4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602)

Project ID: 308032.19 Engineering and Environmental Consultants Phoenix

7878 N. 16th Street, Suite 140

Sampled: 08/24/12 Phoenix, AZ 85020 Report Number: PVH1953 Received: 08/24/12

Attention: John Burton

METHOD BLANK/QC DATA

TOTAL METALS

		Reporting		Spike	Source		%REC		RPD	Data
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifiers
Batch: 12H1356 Extracted: 08/30/12										
Blank Analyzed: 08/31/2012 (12H1356-B	RLK1)									
Aluminum	ND	0.20	mg/l							
Iron	ND	0.10	mg/l							
Zinc	ND	0.050	mg/l							
LCS Analyzed: 08/31/2012 (12H1356-BS	51)									
Aluminum	2.12	0.20	mg/l	2.00		106	85-115			
Iron	1.02	0.10	mg/l	1.00		102	85-115			
Zinc	1.01	0.050	mg/l	1.00		101	85-115			
LCS Dup Analyzed: 08/31/2012 (12H135	66-BSD1)									
Aluminum	2.14	0.20	mg/l	2.00		107	85-115	0.7	20	
Iron	1.02	0.10	mg/l	1.00		102	85-115	0.4	20	
Zinc	1.02	0.050	mg/l	1.00		102	85-115	1	20	
Matrix Spike Analyzed: 08/31/2012 (12F	I1356-MS1)				Source: P	VH1962-	01			
Aluminum	10.5	0.20	mg/l	2.00	7.08	170	70-130			M3
Iron	6.47	0.10	mg/l	1.00	5.44	103	70-130			M3
Zinc	1.06	0.050	mg/l	1.00	0.0353	103	70-130			
Matrix Spike Dup Analyzed: 08/31/2012	(12H1356-M	ISD1)			Source: P	VH1962-	01			
Aluminum	9.17	0.20	mg/l	2.00	7.08	105	70-130	13	20	M3
Iron	5.76	0.10	mg/l	1.00	5.44	31	70-130	12	20	M3
Zinc	1.11	0.050	mg/l	1.00	0.0353	107	70-130	4	20	

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Project ID: 308032.19 Engineering and Environmental Consultants Phoenix

7878 N. 16th Street, Suite 140

Sampled: 08/24/12 Phoenix, AZ 85020 Report Number: PVH1953 Received: 08/24/12

Attention: John Burton

METHOD BLANK/QC DATA

INORGANICS

		Reporting		Spike	Source		%REC		RPD	Data
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifiers
Batch: 12H1067 Extracted: 08/24/12										
Blank Analyzed: 08/24/2012 (12H1067-B	LK1)									
Nitrate-N	ND	0.20	mg/l							
Nitrite-N	ND	0.20	mg/l							
LCS Analyzed: 08/24/2012 (12H1067-BS	1)									
Nitrate-N	4.01	0.20	mg/l	4.00		100	90-110			
Nitrite-N	4.01	0.20	mg/l	4.00		100	90-110			
LCS Dup Analyzed: 08/24/2012 (12H106	7-BSD1)									
Nitrate-N	4.00	0.20	mg/l	4.00		100	90-110	0.1	15	
Nitrite-N	4.02	0.20	mg/l	4.00		101	90-110	0.3	15	
Duplicate Analyzed: 08/25/2012 (12H106	7-DUP1)				Source: P	VH1810-0	02			
Nitrate-N	ND	0.20	mg/l		ND				20	
Nitrite-N	ND	0.20	mg/l		ND				20	
Duplicate Analyzed: 08/25/2012 (12H106	7-DUP2)				Source: P	VH1870-0	02			
Nitrate-N	2.88	0.20	mg/l		2.89			0.2	20	
Nitrite-N	ND	0.20	mg/l		ND				20	
Matrix Spike Analyzed: 08/24/2012 (12H	(1067-MS1)				Source: P	VH1925-0	02			
Nitrate-N	6.21	0.20	mg/l	4.00	2.00	105	80-120			
Nitrite-N	4.44	0.20	mg/l	4.00	ND	111	80-120			
Matrix Spike Dup Analyzed: 08/24/2012	(12H1067-M	ISD1)			Source: P	VH1925-0	02			
Nitrate-N	6.18	0.20	mg/l	4.00	2.00	104	80-120	0.5	15	
Nitrite-N	4.38	0.20	mg/l	4.00	ND	109	80-120	1	15	

TestAmerica Phoenix



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Engineering and Environmental Consultants Phoenix Project ID: 308032.19

7878 N. 16th Street, Suite 140

Phoenix, AZ 85020

Report Number: PVH1953

Sampled: 08/24/12

Received: 08/24/12

Attention: John Burton

DATA QUALIFIERS AND DEFINITIONS

M3 The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike

level. The associated blank spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.

RPD Relative Percent Difference



Engineering and Environmental Consultants Phoenix

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Project ID: 308032.19

7878 N. 16th Street, Suite 140

Phoenix, AZ 85020

Report Number: PVH1953

Sampled: 08/24/12

Received: 08/24/12

Attention: John Burton

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
Calculation	Water		N/A
EPA 200.7	Water		X
EPA 300.0	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-0013-550 (10/10)

CHAIN OF CUSTODY FORM

Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
 Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
 J Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

TAL-0013-550 (10/10)		-		Coco	I Ave., Oute o	ו, המט אכן	as vegas, ivo o	2112 (102)) The St. 160	Ĭ	ē			Page of
Client Name / Address:			Project/PO Number:	mber:						Analy	Analysis Required	ired		
7878 N. 1634 # 140		··	308032.19	2.19		. way	<u> </u>	<u>-</u>	trite					
	٢		Phone Number: 602. 248.7702	602.24	B-2702	القرملخ أ	[/o	<u>Zin</u>	+ N			• • • • • • • • • • • • • • • • • • • •		
Sampler: Rick Salcido			Fax Number: 602-248-7851	02-248-	8	al Al	tel :	ta)	rate					
Sample Description	Sample Co Matrix	Container Type	# of Sampling Cont. Date	g Sampling Time	Preservatives	Toh	To:	To	N;+					Special Instructions
DUR-082412	WIW		Mr. 18	8/24/12 9:00 AM	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	\times	\times	X		2	555141VB	3	ğ	
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Note: By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

25.72



LABORATORY REPORT

Prepared For: Engineering and Environmental Consultants Phoenix Project: 308032.20

7878 N. 16th Street, Suite 140

Phoenix, AZ 85020 Attention: John Burton

Sampled: 12/13/12-12/14/12

Received: 12/17/12

Issued: 01/13/13 11:57

NELAP #01109CA / AZ100001 Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain(s) of Custody, 3 pages, are included and are an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID	CLIENT ID	MATRIX
PVL1141-01	ADOT-TUC-COMP	Water
PVL1141-02	ADOT-TUC-G	Water



4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602)

Engineering and Environmental Consultants Phoenix Project ID: 308032.20

7878 N. 16th Street, Suite 140 Sampled: 12/13/12-12/14/12

Phoenix, AZ 85020 Report Number: PVL1141 Received: 12/17/12

Attention: John Burton

SAMPLE RECEIPT: Samples were received intact, at 1°C, on ice and with chain of custody documentation.

HOLDING TIMES: Not all holding times were met. Results were qualified where the sample analysis did not occur within

method specified holding time requirements.

Cyanide samples are tested for the presence of sulfide within 24hrs of sampling. The sampe requiring

cyanide was received and tested after the 24hr period.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

L3-Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the

acceptance limits. Analyte not detected, data not impacted.

N1a-RPD exceeded acceptance limits for the LCS/LCSD and the LCS and/or LCSD recovery exceeded acceptance limits. The analyte was not detected in the associated samples; therefore, the data is not

impacted.

COMMENTS: Results that fall between the MDL and RL are 'E4' flagged.

N1-This analyte was reported as ND based on the "total" result of ND. No additional analysis was

performed.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Reviewed By:

TestAmerica Phoenix

Kylie Emily Project Manager



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HEXANE EXTRACTABLE MATERIAL BY EPA METHOD 1664A

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVL1141-02 (ADOT-TUC	C-G - Water)				Sample	d: 12/13/1	12		
Reporting Units: mg/l									
N-Hexane Extractable (HEM)	EPA 1664A	12L0951	N/A	5.0	ND	1	12/26/12	12/26/12	M2
N-Hexane Extractable Silica Gel Treated (SGT)	EPA 1664A SGT	12L0951	N/A	10	ND	1	12/26/12	12/26/12	N1, M2



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PURGEABLES BY GC/MS (EPA 624)

			MDL	Reporting	Sample	Dilution	Date	Date	Data
Analyte	Method	Batch	Limit	Limit	Result	Factor	Extracted	Analyzed	Qualifiers
Sample ID: PVL1141-02 (ADOT-TUC	C-G - Water)				Sample	ed: 12/13/1	2		
Reporting Units: ug/l									
Benzene	EPA 624	12L0839	N/A	2.0	ND	1	12/21/12	12/21/12	
Ethylbenzene	EPA 624	12L0839	N/A	2.0	ND	1	12/21/12	12/21/12	
Toluene	EPA 624	12L0839	N/A	2.0	ND	1	12/21/12	12/21/12	
Xylenes, Total	EPA 624	12L0839	N/A	2.0	ND	1	12/21/12	12/21/12	
Surrogate: Dibromofluoromethane (70-	-130%)				109 %				
Surrogate: Toluene-d8 (70-130%)					102 %				
Surrogate: 4-Bromofluorobenzene (70-	130%)				99 %				



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ORGANOCHLORINE PESTICIDES AND PCBS BY GC (EPA 608)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result		Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVL1141-01 (ADOT-TUC-COMP - Water)					D1				
Reporting Units: ug/l									
alpha-BHC	EPA 608	12L0746	N/A	1.0	ND	20	12/19/12	01/01/13	L3
gamma-BHC (Lindane)	EPA 608	12L0746	N/A	1.0	ND	20	12/19/12	01/01/13	L3
beta-BHC	EPA 608	12L0746	N/A	1.0	ND	20	12/19/12	01/01/13	
Heptachlor	EPA 608	12L0746	N/A	1.0	ND	20	12/19/12	01/01/13	L3
delta-BHC	EPA 608	12L0746	N/A	1.0	ND	20	12/19/12	01/01/13	
Aldrin	EPA 608	12L0746	N/A	1.0	ND	20	12/19/12	01/01/13	L3
Heptachlor epoxide	EPA 608	12L0746	N/A	1.0	ND	20	12/19/12	01/01/13	
Endosulfan I	EPA 608	12L0746	N/A	1.0	ND	20	12/19/12	01/01/13	V1
4,4'-DDE	EPA 608	12L0746	N/A	1.0	ND	20	12/19/12	01/01/13	
Dieldrin	EPA 608	12L0746	N/A	1.0	ND	20	12/19/12	01/01/13	
Endrin	EPA 608	12L0746	N/A	1.0	ND	20	12/19/12	01/01/13	
4,4'-DDD	EPA 608	12L0746	N/A	1.0	ND	20	12/19/12	01/01/13	
Endosulfan II	EPA 608	12L0746	N/A	1.0	ND	20	12/19/12	01/01/13	V1
4,4'-DDT	EPA 608	12L0746	N/A	1.0	ND	20	12/19/12	01/01/13	
Endrin aldehyde	EPA 608	12L0746	N/A	1.0	ND	20	12/19/12	01/01/13	L3
Endosulfan sulfate	EPA 608	12L0746	N/A	1.0	ND	20	12/19/12	01/01/13	V1, L3
Toxaphene	EPA 608	12L0746	N/A	20	ND	20	12/19/12	01/01/13	
Chlordane	EPA 608	12L0746	N/A	10	ND	20	12/19/12	01/01/13	
Surrogate: Tetrachloro-m-xylene (10-132%)					107 %				S8
Surrogate: Decachlorobiphenyl (10-103%)					72 %				<i>S8</i>



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Report Number: PVL1141

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Phoenix, AZ 85020

TOTAL METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers		
Sample ID: PVL1141-01 (ADOT-TUC-COMP - Water)				Sampled: 12/14/12							
Reporting Units: mg/l											
Arsenic	EPA 200.7	12L0933	N/A	0.10	ND	1	12/26/12	12/27/12			
Barium	EPA 200.7	12L0933	N/A	0.010	0.070	1	12/26/12	12/27/12			
Beryllium	EPA 200.7	12L0933	N/A	0.0010	ND	1	12/26/12	12/27/12			
Cadmium	EPA 200.7	12L0933	N/A	0.0010	ND	1	12/26/12	12/27/12			
Calcium	EPA 200.7	12L0933	N/A	2.0	11	1	12/26/12	12/27/12			
Chromium	EPA 200.7	12L0933	N/A	0.010	ND	1	12/26/12	12/27/12			
Copper	EPA 200.7	12L0933	N/A	0.010	0.080	1	12/26/12	12/27/12			
Hardness, Total	SM2340B	[CALC]	N/A	13	28	1	12/26/12	12/27/12			
Lead	EPA 200.7	12L0933	N/A	0.015	ND	1	12/26/12	12/27/12			
Magnesium	EPA 200.7	12L0933	N/A	2.0	ND	1	12/26/12	12/27/12			
Mercury	EPA 245.1	12L0889	N/A	0.00020	ND	1	12/24/12	12/24/12			
Nickel	EPA 200.7	12L0933	N/A	0.010	ND	1	12/26/12	12/27/12			
Silver	EPA 200.7	12L0933	N/A	0.010	ND	1	12/26/12	12/27/12			
Sodium	EPA 200.7	12L0933	N/A	2.0	4.9	1	12/26/12	12/27/12			
Zinc	EPA 200.7	12L0933	N/A	0.050	0.13	1	12/26/12	12/27/12			



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TOTAL METALS BY ICP/MS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVL1141-01 (ADOT-TUC-C			Sample	ed: 12/14/1	12				
Reporting Units: mg/l									
Antimony	EPA 200.8	12L0696	N/A	0.0030	0.0045	1	12/19/12	12/20/12	
Selenium	EPA 200.8	12L0696	N/A	0.0030	ND	1	12/19/12	12/20/12	



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Attention: John Burton

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVL1141-01 (ADOT-TUC	C-COMP - Water)				Sample	ed: 12/14/1	12		
Reporting Units: mg/l									
Ammonia-N	SM 4500NH3-D	12L0784	N/A	0.50	ND	1	12/20/12	12/20/12	
Biochemical Oxygen Demand	SM 5210B	12L0632	N/A	5.0	5.8	1	12/17/12	12/17/12	Н3
Chemical Oxygen Demand	SM 5220D	12L0776	N/A	20	95	1	12/20/12	12/20/12	
Chloride	EPA 300.0	12L0639	N/A	2.0	2.8	1	12/17/12	12/17/12	
Chlorine, Total Residual	HACH 8167	12L0671	N/A	0.050	ND	1	12/18/12	12/18/12	Н3
Orthophosphate - P	EPA 300.0	12L0639	N/A	0.20	ND	1	12/17/12	12/17/12	Н3
Phosphorus, Total - P	SM 4500-P B, E	12L0669	N/A	0.10	0.18	1	12/18/12	12/19/12	
Sulfate	EPA 300.0	12L0639	N/A	2.0	7.5	1	12/17/12	12/17/12	
Total Dissolved Solids	SM 2540C	12L0666	N/A	20	66	1	12/18/12	12/18/12	
Total Suspended Solids	SM 2540D	12L0713	N/A	10	69	1	12/19/12	12/19/12	



THE LEADER IN ENVIRONMENTAL TESTING

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result		Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVL1141-02 (ADOT-TUC- Reporting Units: mg/l	G - Water)				Sample	ed: 12/13/1	2		
Cyanide, Total	SM 4500CN-E	12L0728	N/A	0.050	ND	1	12/18/12	12/18/12	
Sample ID: PVL1141-01 (ADOT-TUC- Reporting Units: NTU	COMP - Water)				Sample	ed: 12/14/1	2		
Turbidity	EPA 180.1	12L0676	N/A	0.40	46	2	12/18/12	12/18/12	Н3
ample ID: PVL1141-01 (ADOT-TUC-COMP - Water) Reporting Units: umhos/cm					Sample	ed: 12/14/1	12		
Specific Conductance	SM 2510B	12L0704	N/A	2.0	89	1	12/19/12	12/19/12	



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MICROBIOLOGICALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVL1141-02 (ADOT-TUC-G	- Water)				Sample	d: 12/13/1	2		A13
Reporting Units: CFU/100 ml	CM 0222D	121.0772	N T/A	100	2200	100	12/10/12	12/10/12	112
Fecal Coliform	SM 9222D	12L0673	N/A	100	2200	100	12/18/12	12/19/12	Н3
Sample ID: PVL1141-02 (ADOT-TUC-G	- Water)				Sample	d: 12/13/1	2		
Reporting Units: MPN/100 ml E. Coli - MPN	SM 9221F	12L0667	N/A	20	300	10	12/18/12	12/21/12	НЗ
E. Coll - MIT N	SWI 9221F	12L0007	1 N /A	20	300	10	12/10/12	12/21/12	ПЭ



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Nitroger	ı, Tota	l Kjeldahl				
	MDL	Reporting	Sample	Dilution	Date	

Data **Date** Analyte Method Batch Limit Limit Result Factor Extracted Analyzed Qualifiers Sample ID: PVL1141-01 (ADOT-TUC-COMP - Water) Sampled: 12/14/12 Reporting Units: mg/L Kjeldahl Nitrogen as N 351.2 0.10 12/31/12 01/02/13 B1 47712 0.060 1.6 1



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SHORT HOLD TIME DETAIL REPORT

Sample ID: ADOT-TUC-COMP (PVL1141-	Hold Time (in days) -01) - Water	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
EPA 180.1	2	12/14/2012 13:00	12/17/2012 17:40	12/18/2012 08:45	12/18/2012 10:30
EPA 300.0	2	12/14/2012 13:00	12/17/2012 17:40	12/17/2012 18:40	12/17/2012 23:09
HACH 8167	1	12/14/2012 13:00	12/17/2012 17:40	12/18/2012 09:50	12/18/2012 10:10
SM 5210B	2	12/14/2012 13:00	12/17/2012 17:40	12/17/2012 17:20	12/17/2012 18:49
Sample ID: ADOT-TUC-G (PVL1141-02) -	Water				
SM 9221F	0	12/13/2012 23:00	12/17/2012 17:40	12/18/2012 13:25	12/21/2012 10:00
SM 9222D	0	12/13/2012 23:00	12/17/2012 17:40	12/18/2012 14:10	12/19/2012 14:10



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METHOD BLANK/QC DATA

HEXANE EXTRACTABLE MATERIAL BY EPA METHOD 1664A

		Reporting			Spike	Source		%REC		RPD	Data
Analyte	Result	Limit	MDL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifiers
Batch: 12L0951 Extracted: 12/26/12	<u>?</u>										
Blank Analyzed: 12/26/2012 (12L0951-B	I K1)										
·	,	5 0	27/4								
N-Hexane Extractable (HEM)	ND	5.0	N/A	mg/l							
N-Hexane Extractable Silica Gel Treated (SGT)	ND	10	N/A	mg/l							
LCS Analyzed: 12/26/2012 (12L0951-BS	1)										
N-Hexane Extractable (HEM)	34.0	5.0	N/A	mg/l	40.0		85	78-114			
N-Hexane Extractable Silica Gel Treated (SGT)	14.1	10	N/A	mg/l	20.0		70	64-132			
LCS Dup Analyzed: 12/26/2012 (12L095	1-BSD1)										
N-Hexane Extractable (HEM)	33.8	5.0	N/A	mg/l	40.0		84	78-114	0.6	18	
N-Hexane Extractable Silica Gel Treated (SGT)	14.7	10	N/A	mg/l	20.0		74	64-132	4	34	
Matrix Spike Analyzed: 12/26/2012 (12L	.0951-MS1)				Sour	rce: PVL1	1141-02				
N-Hexane Extractable (HEM)	31.2	5.0	N/A	mg/l	42.1	4.47	63	78-114			M2
N-Hexane Extractable Silica Gel Treated (SGT)	11.8	10	N/A	mg/l	21.1	ND	56	64-132			M2



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METHOD BLANK/QC DATA

PURGEABLES BY GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12L0839 Extracted: 12/21/12											
Blank Analyzed: 12/21/2012 (12L0839-BL	I /1)										
	ND	2.0	N/A	ug/l							
Benzene	ND	2.0	N/A	ug/l							
Ethylbenzene	ND	2.0	N/A	ug/l							
Toluene											
Xylenes, Total	ND	2.0	N/A	ug/l	25.0		100	70.120			
Surrogate: Dibromofluoromethane	27.1			ug/l	25.0		108	70-130			
Surrogate: Toluene-d8 Surrogate: 4-Bromofluorobenzene	26.8			ug/l	25.0 25.0		107 97	70-130			
Surrogaie: 4-bromojiuorovenzene	24.4			ug/l	25.0		9/	70-130			
LCS Analyzed: 12/21/2012 (12L0839-BS1))										
Benzene	26.7	2.0	N/A	ug/l	25.0		107	37-151			
Ethylbenzene	27.2	2.0	N/A	ug/l	25.0		109	37-162			
Toluene	26.5	2.0	N/A	ug/l	25.0		106	47-150			
Xylenes, Total	54.5	2.0	N/A	ug/l	50.0		109	70-130			
Surrogate: Dibromofluoromethane	27.1			ug/l	25.0		108	70-130			
Surrogate: Toluene-d8	24.8			ug/l	25.0		99	70-130			
Surrogate: 4-Bromofluorobenzene	23.6			ug/l	25.0		94	70-130			
LCS Dup Analyzed: 12/21/2012 (12L0839-	-BSD1)										
Benzene	26.0	2.0	N/A	ug/l	25.0		104	37-151	3	20	
Ethylbenzene	27.6	2.0	N/A	ug/l	25.0		110	37-162	2	20	
Toluene	27.4	2.0	N/A	ug/l	25.0		110	47-150	3	20	
Xylenes, Total	55.5	2.0	N/A	ug/l	50.0		111	70-130	2	20	
Surrogate: Dibromofluoromethane	26.2			ug/l	25.0		105	70-130			
Surrogate: Toluene-d8	24.6			ug/l	25.0		98	70-130			
Surrogate: 4-Bromofluorobenzene	23.4			ug/l	25.0		94	70-130			
Matrix Spike Analyzed: 12/21/2012 (12L0)	839-MS1)				Sour	rce: PVL1	016-13				
Benzene	27.2	2.0	N/A	ug/l	25.0	0.300	108	37-151			
Ethylbenzene	27.2	2.0	N/A	ug/l	25.0	ND	109	37-162			
Toluene	28.9	2.0	N/A	ug/l	25.0	ND	116	47-150			
Xylenes, Total	54.8	2.0	N/A	ug/l	50.0	ND	110	68-131			
Surrogate: Dibromofluoromethane	28.4			ug/l	25.0		114	70-130			
Surrogate: Toluene-d8	25.4			ug/l	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene											

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METHOD BLANK/QC DATA

PURGEABLES BY GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12L0839 Extracted: 12/21/12											
Matrix Spike Dup Analyzed: 12/21/2012 ((12L0839-MSI	D 1)			Sour	ce: PVL1	016-13				
Benzene	27.2	2.0	N/A	ug/l	25.0	0.300	107	37-151	0.2	20	
Ethylbenzene	27.6	2.0	N/A	ug/l	25.0	ND	110	37-162	2	20	
Toluene	28.7	2.0	N/A	ug/l	25.0	ND	115	47-150	0.6	20	
Xylenes, Total	56.2	2.0	N/A	ug/l	50.0	ND	112	68-131	3	31	
Surrogate: Dibromofluoromethane	28.6			ug/l	25.0		114	70-130			
Surrogate: Toluene-d8	25.3			ug/l	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	23.7			ug/l	25.0		95	70-130			



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%REC

Sampled: 12/13/12-12/14/12

RPD

Data

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Phoenix, AZ 85020 Report Number: PVL1141 Received: 12/17/12

Reporting

Attention: John Burton

METHOD BLANK/QC DATA

ORGANOCHLORINE PESTICIDES AND PCBS BY GC (EPA 608)

Spike

Source

Analyte	Result	Limit	MDL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifiers
Batch: 12L0746 Extracted: 12/1	9/12										
Blank Analyzed: 12/31/2012 (12L07	46-BLK1)										
alpha-BHC	ND	0.050	N/A	ug/l							
gamma-BHC (Lindane)	ND	0.050	N/A	ug/l							
beta-BHC	ND	0.050	N/A	ug/l							
Heptachlor	ND	0.050	N/A	ug/l							
delta-BHC	ND	0.050	N/A	ug/l							
Aldrin	ND	0.050	N/A	ug/l							
Heptachlor epoxide	ND	0.050	N/A	ug/l							
Endosulfan I	ND	0.050	N/A	ug/l							
4,4'-DDE	ND	0.050	N/A	ug/l							
Dieldrin	ND	0.050	N/A	ug/l							
Endrin	ND	0.050	N/A	ug/l							
4,4'-DDD	ND	0.050	N/A	ug/l							
Endosulfan II	ND	0.050	N/A	ug/l							
4,4'-DDT	ND	0.050	N/A	ug/l							
Endrin aldehyde	ND	0.050	N/A	ug/l							
Endosulfan sulfate	ND	0.050	N/A	ug/l							
Toxaphene	ND	1.0	N/A	ug/l							
Chlordane	ND	0.50	N/A	ug/l							
Surrogate: Tetrachloro-m-xylene	0.856			ug/l	1.00		86	10-132			
Surrogate: Decachlorobiphenyl	0.557			ug/l	1.00		56	10-103			
LCS Analyzed: 12/31/2012 (12L074	6-BS1)										M4
alpha-BHC	1.45	0.050	N/A	ug/l	1.00		145	37-134			L3
gamma-BHC (Lindane)	1.47	0.050	N/A	ug/l	1.00		147	32-127			L3
beta-BHC	1.38	0.050	N/A	ug/l	1.00		138	17-147			
Heptachlor	1.36	0.050	N/A	ug/l	1.00		136	34-111			L3
delta-BHC	1.39	0.050	N/A	ug/l	1.00		139	19-140			
Aldrin	1.30	0.050	N/A	ug/l	1.00		130	42-122			L3
Heptachlor epoxide	1.42	0.050	N/A	ug/l	1.00		142	37-142			
Endosulfan I	1.47	0.050	N/A	ug/l	1.00		147	45-153			
4,4'-DDE	1.21	0.050	N/A	ug/l	1.00		121	30-145			
Dieldrin	1.41	0.050	N/A	ug/l	1.00		141	36-146			
				-							

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Sampled: 12/13/12-12/14/12

Engineering and Environmental Consultants Phoenix Project ID: 308032.20

7878 N. 16th Street, Suite 140

Phoenix, AZ 85020 Report Number: PVL1141 Received: 12/17/12

Attention: John Burton

METHOD BLANK/QC DATA

ORGANOCHLORINE PESTICIDES AND PCBS BY GC (EPA 608)

		Reporting			Spike	Source		%REC		RPD	Data
Analyte	Result	Limit	MDL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifiers
Batch: 12L0746 Extracted: 12/19/	12										
LCS Analyzed: 12/31/2012 (12L0746-F											M4
Endrin	1.39	0.050	N/A	ug/l	1.00		139	30-147			
4,4'-DDD	1.31	0.050	N/A	ug/l	1.00		131	31-141			
Endosulfan II	1.46	0.050	N/A	ug/l	1.00		146	5-150			
4,4'-DDT	1.24	0.050	N/A	ug/l	1.00		124	25-160			
Endrin aldehyde	1.50	0.050	N/A	ug/l	1.00		150	60-130			L3
Endosulfan sulfate	1.47	0.050	N/A	ug/l	1.00		147	25-144			L3
Surrogate: Tetrachloro-m-xylene	1.27			ug/l	1.00		127	39-132			
Surrogate: Decachlorobiphenyl	0.812			ug/l	1.00		81	10-81			
LCS Dup Analyzed: 12/31/2012 (12L0	746-BSD1)										M4
alpha-BHC	0.977	0.050	N/A	ug/l	1.00		98	37-134	39	28	N1a
gamma-BHC (Lindane)	1.00	0.050	N/A	ug/l	1.00		100	32-127	38	28	N1a
beta-BHC	0.956	0.050	N/A	ug/l	1.00		96	17-147	36	28	R6
Heptachlor	0.980	0.050	N/A	ug/l	1.00		98	34-111	32	33	
delta-BHC	0.930	0.050	N/A	ug/l	1.00		93	19-140	40	28	R6
Aldrin	0.968	0.050	N/A	ug/l	1.00		97	42-122	29	33	
Heptachlor epoxide	1.04	0.050	N/A	ug/l	1.00		104	37-142	31	29	R6
Endosulfan I	1.06	0.050	N/A	ug/l	1.00		106	45-153	32	30	R6
4,4'-DDE	0.865	0.050	N/A	ug/l	1.00		87	30-145	33	35	
Dieldrin	1.02	0.050	N/A	ug/l	1.00		102	36-146	32	30	R6
Endrin	0.996	0.050	N/A	ug/l	1.00		100	30-147	33	35	
4,4'-DDD	0.926	0.050	N/A	ug/l	1.00		93	31-141	35	33	<i>R6</i>
Endosulfan II	1.04	0.050	N/A	ug/l	1.00		104	5-150	34	30	<i>R6</i>
4,4'-DDT	0.872	0.050	N/A	ug/l	1.00		87	25-160	35	35	
Endrin aldehyde	1.05	0.050	N/A	ug/l	1.00		105	60-130	36	30	N1a
Endosulfan sulfate	1.01	0.050	N/A	ug/l	1.00		101	25-144	37	30	N1a
Surrogate: Tetrachloro-m-xylene	0.911			ug/l	1.00		91	39-132			
Surrogate: Decachlorobiphenyl	0.527			ug/l	1.00		53	10-81			

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Phoenix, AZ 85020 Report Number: PVL1141 Received: 12/17/12

Attention: John Burton

METHOD BLANK/QC DATA

TOTAL METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12L0889 Extracted: 12/24/12	•										
Blank Analyzed: 12/24/2012 (12L0889-Bl	LK1)										
Mercury	ND	0.00020	N/A	mg/l							
LCS Analyzed: 12/24/2012 (12L0889-BS1)										
Mercury	0.0100	0.00020	N/A	mg/l	0.0100		100	85-115			
LCS Dup Analyzed: 12/24/2012 (12L0889	-BSD1)										
Mercury	0.0103	0.00020	N/A	mg/l	0.0100		103	85-115	2	20	
Matrix Spike Analyzed: 12/24/2012 (12L0)889-MS1)				Sour	ce: PVL1	078-01				
Mercury	0.0103	0.00020	N/A	mg/l	0.0100	ND	103	70-130			
Matrix Spike Dup Analyzed: 12/24/2012	(12L0889-MS	SD1)			Sour	ce: PVL1	078-01				
Mercury	0.0105	0.00020	N/A	mg/l	0.0100	ND	105	70-130	2	20	
Batch: 12L0933 Extracted: 12/26/12											
	•										
Blank Analyzed: 12/27/2012 (12L0933-BI											
Arsenic	ND	0.10	N/A	mg/l							
Barium	ND	0.010	N/A	mg/l							
Beryllium	ND	0.0010	N/A	mg/l							
Cadmium	ND	0.0010	N/A	mg/l							
Calcium	ND	2.0	N/A	mg/l							
Chromium	ND	0.010	N/A	mg/l							
Copper	ND	0.010	N/A	mg/l							
Lead	ND	0.015	N/A	mg/l							
Magnesium	ND	2.0	N/A	mg/l							
Nickel	ND	0.010	N/A	mg/l							
Silver	ND	0.010	N/A	mg/l							
Sodium	ND	2.0	N/A	mg/l							
Zinc	ND	0.050	N/A	mg/l							

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Attention: John Burton

METHOD BLANK/QC DATA

TOTAL METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source	%REC	%REC	RPD	RPD Limit	Data Qualifiers
•	Result	Lillit	MIDL	Units	Levei	Resuit	70KEC	Lillits	KID	Lillit	Quanners
Batch: 12L0933 Extracted: 12/26/12											
LCS Analyzed: 12/27/2012 (12L0933-BS1))										
Arsenic	0.995	0.10	N/A	mg/l	1.00		99	85-115			
Barium	1.03	0.010	N/A	mg/l	1.00		103	85-115			
Beryllium	1.02	0.0010	N/A	mg/l	1.00		102	85-115			
Cadmium	1.02	0.0010	N/A	mg/l	1.00		102	85-115			
Calcium	21.7	2.0	N/A	mg/l	21.0		103	85-115			
Chromium	1.03	0.010	N/A	mg/l	1.00		103	85-115			
Copper	1.04	0.010	N/A	mg/l	1.00		104	85-115			
Lead	1.00	0.015	N/A	mg/l	1.00		100	85-115			
Magnesium	21.6	2.0	N/A	mg/l	21.0		103	85-115			
Nickel	1.02	0.010	N/A	mg/l	1.00		102	85-115			
Silver	0.0773	0.010	N/A	mg/l	0.0750		103	85-115			
Sodium	20.3	2.0	N/A	mg/l	20.0		101	85-115			
Zinc	1.05	0.050	N/A	mg/l	1.00		105	85-115			
LCS Dup Analyzed: 12/27/2012 (12L0933	-BSD1)										
Arsenic	0.987	0.10	N/A	mg/l	1.00		99	85-115	0.8	20	
Barium	1.03	0.010	N/A	mg/l	1.00		103	85-115	0.3	20	
Beryllium	0.997	0.0010	N/A	mg/l	1.00		100	85-115	2	20	
Cadmium	1.01	0.0010	N/A	mg/l	1.00		101	85-115	1	20	
Calcium	21.5	2.0	N/A	mg/l	21.0		102	85-115	1	20	
Chromium	1.02	0.010	N/A	mg/l	1.00		102	85-115	0.5	20	
Copper	1.02	0.010	N/A	mg/l	1.00		102	85-115	1	20	
Lead	0.996	0.015	N/A	mg/l	1.00		100	85-115	0.3	20	
Magnesium	21.4	2.0	N/A	mg/l	21.0		102	85-115	1	20	
Nickel	1.02	0.010	N/A	mg/l	1.00		102	85-115	0.5	20	
Silver	0.0777	0.010	N/A	mg/l	0.0750		104	85-115	0.4	20	
Sodium	20.0	2.0	N/A	mg/l	20.0		100	85-115	1	20	
Zinc	1.05	0.050	N/A	mg/l	1.00		105	85-115	0.3	20	

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7878 N. 16th Street, Suite 140

Phoenix, AZ 85020 Report Number: PVL1141 Received: 12/17/12

Attention: John Burton

METHOD BLANK/QC DATA

TOTAL METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12L0933 Extracted: 12/26/12	-										
Matrix Spike Analyzed: 12/27/2012 (12L0	0933-MS1)				Sou	rce: PVL1	081-01				
Arsenic	0.995	0.10	N/A	mg/l	1.00	ND	99	70-130			
Barium	1.06	0.010	N/A	mg/l	1.00	0.0500	101	70-130			
Beryllium	0.982	0.0010	N/A	mg/l	1.00	ND	98	70-130			
Cadmium	0.999	0.0010	N/A	mg/l	1.00	ND	100	70-130			
Calcium	144	2.0	N/A	mg/l	21.0	130	65	70-130			M3
Chromium	0.996	0.010	N/A	mg/l	1.00	ND	100	70-130			
Copper	1.04	0.010	N/A	mg/l	1.00	0.00251	103	70-130			
Lead	0.976	0.015	N/A	mg/l	1.00	ND	98	70-130			
Magnesium	49.4	2.0	N/A	mg/l	21.0	29.8	93	70-130			
Nickel	0.972	0.010	N/A	mg/l	1.00	ND	97	70-130			
Silver	0.0769	0.010	N/A	mg/l	0.0750	ND	103	70-130			
Sodium	59.0	2.0	N/A	mg/l	20.0	40.7	92	70-130			
Zinc	1.02	0.050	N/A	mg/l	1.00	0.0169	100	70-130			
Matrix Spike Dup Analyzed: 12/27/2012	(12L0933-MS	D1)			Sou	rce: PVL1	081-01				
Arsenic	0.979	0.10	N/A	mg/l	1.00	ND	98	70-130	2	20	
Barium	1.06	0.010	N/A	mg/l	1.00	0.0500	101	70-130	0.2	20	
Beryllium	0.974	0.0010	N/A	mg/l	1.00	ND	97	70-130	0.9	20	
Cadmium	0.997	0.0010	N/A	mg/l	1.00	ND	100	70-130	0.2	20	
Calcium	139	2.0	N/A	mg/l	21.0	130	44	70-130	3	20	M3
Chromium	0.996	0.010	N/A	mg/l	1.00	ND	100	70-130	0.06	20	
Copper	1.04	0.010	N/A	mg/l	1.00	0.00251	104	70-130	0.5	20	
Lead	0.972	0.015	N/A	mg/l	1.00	ND	97	70-130	0.4	20	
Magnesium	48.2	2.0	N/A	mg/l	21.0	29.8	87	70-130	2	20	
Nickel	0.969	0.010	N/A	mg/l	1.00	ND	97	70-130	0.3	20	
Silver	0.0767	0.010	N/A	mg/l	0.0750	ND	102	70-130	0.3	20	
Sodium	58.0	2.0	N/A	mg/l	20.0	40.7	87	70-130	2	20	
Zinc	0.996	0.050	N/A	mg/l	1.00	0.0169	98	70-130	2	20	

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Engineering and Environmental Consultants Phoenix Project ID: 308032.20

7878 N. 16th Street, Suite 140

Phoenix, AZ 85020 Report Number: PVL1141 Received: 12/17/12

Attention: John Burton

METHOD BLANK/QC DATA

TOTAL METALS BY ICP/MS

		Reporting			Spike	Source		%REC		RPD	Data
Analyte	Result	Limit	MDL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifiers
Batch: 12L0696 Extracted: 12/19/12											
Blank Analyzed: 12/20/2012 (12L0696-BI	.K1)										
Antimony	ND	0.0030	N/A	mg/l							
Selenium	ND	0.0030	N/A	mg/l							
LCS Analyzed: 12/20/2012 (12L0696-BS1)										
Antimony	0.0900	0.0030	N/A	mg/l	0.100		90	85-115			
Selenium	0.0857	0.0030	N/A	mg/l	0.100		86	85-115			
LCS Dup Analyzed: 12/20/2012 (12L0696	-BSD1)										
Antimony	0.0938	0.0030	N/A	mg/l	0.100		94	85-115	4	20	
Selenium	0.0890	0.0030	N/A	mg/l	0.100		89	85-115	4	20	
Matrix Spike Analyzed: 12/20/2012 (12L0	696-MS1)				Sou	ırce: PVL1	081-01				
Antimony	0.0872	0.0030	N/A	mg/l	0.100	ND	87	70-130			
Selenium	0.0887	0.0030	N/A	mg/l	0.100	0.000717	88	70-130			
Matrix Spike Dup Analyzed: 12/20/2012 (12L0696-MSI	D1)			Sou	ırce: PVL1	081-01				
Antimony	0.0879	0.0030	N/A	mg/l	0.100	ND	88	70-130	0.9	20	
Selenium	0.0880	0.0030	N/A	mg/l	0.100	0.000717	87	70-130	0.7	20	



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METHOD BLANK/QC DATA

INORGANICS

		Reporting			Spike	Source		%REC		RPD	Data
Analyte	Result	Limit	MDL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifiers
Batch: 12L0632 Extracted: 12/17/12	_										
Disals Assalsas J. 12/17/2012 (12) 0/22 DI	(IZ1)										
Blank Analyzed: 12/17/2012 (12L0632-BI	ND	5.0	N/A	mg/l							K5
Biochemical Oxygen Demand	ND	5.0	IN/A	mg/i							KJ
Duplicate Analyzed: 12/17/2012 (12L0632	2-DUP1)				Sour	rce: PVL1	1113-01				
Biochemical Oxygen Demand	260	5.0	N/A	mg/l		266			2	20	
Reference Analyzed: 12/17/2012 (12L063)	2-SRM1)										
Biochemical Oxygen Demand	199	5.0	N/A	mg/l	198		100	0-200			
Batch: 12L0639 Extracted: 12/17/12											
Batch. 12L0037 Extracted. 12/17/12	•										
Blank Analyzed: 12/17/2012 (12L0639-BI	LK1)										
Chloride	ND	2.0	N/A	mg/l							
Orthophosphate - P	ND	0.20	N/A	mg/l							
Sulfate	ND	2.0	N/A	mg/l							
LCS Analyzed: 12/17/2012 (12L0639-BS1)										
Chloride	20.0	2.0	N/A	mg/l	20.0		100	90-110			
Orthophosphate - P	1.96	0.20	N/A	mg/l	2.00		98	90-110			
Sulfate	19.8	2.0	N/A	mg/l	20.0		99	90-110			
LCS Dup Analyzed: 12/17/2012 (12L0639	-BSD1)										
Chloride	20.0	2.0	N/A	mg/l	20.0		100	90-110	0.02	15	
Orthophosphate - P	1.97	0.20	N/A	mg/l	2.00		99	90-110	0.4	20	
Sulfate	19.7	2.0	N/A	mg/l	20.0		99	90-110	0.05	15	
Matrix Spike Analyzed: 12/17/2012 (12L0)639-MS1)				Som	rce: PVL1	1127-01				
Chloride	97.8	2.0	N/A	mg/l	20.0	81.1	83	80-120			
Orthophosphate - P	2.05	0.20	N/A	mg/l	2.00	ND	102	80-120			
Sulfate	21.4	2.0	N/A	mg/l	20.0	0.703	103	80-120			
				-							

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Sampled: 12/13/12-12/14/12

Engineering and Environmental Consultants Phoenix Project ID: 308032.20

7878 N. 16th Street, Suite 140

Phoenix, AZ 85020 Report Number: PVL1141 Received: 12/17/12

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC	RPD	RPD Limit	Data Qualifiers
Batch: 12L0639 Extracted: 12/17/12	itesuit		NIDE	Circs	Level	resure	/UILE	Limits	I TO	Limit	Quanners
Batch. 12L0037 Extracted. 12/17/12											
Matrix Spike Dup Analyzed: 12/17/2012 (12L0639-MS	SD1)			Sour	rce: PVL1	127-01				
Chloride	97.8	2.0	N/A	mg/l	20.0	81.1	84	80-120	0.06	15	
Orthophosphate - P	2.07	0.20	N/A	mg/l	2.00	ND	103	80-120	1	20	
Sulfate	21.3	2.0	N/A	mg/l	20.0	0.703	103	80-120	0.2	15	
Batch: 12L0666 Extracted: 12/18/12											
Blank Analyzed: 12/18/2012 (12L0666-BL	.K1)										
Total Dissolved Solids	ND	20	N/A	mg/l							
LCS Analyzed: 12/18/2012 (12L0666-BS1)										
Total Dissolved Solids	1010	20	N/A	mg/l	1000		101	80-115			
LCS Dup Analyzed: 12/18/2012 (12L0666	-BSD1)										
Total Dissolved Solids	994	20	N/A	mg/l	1000		99	80-115	1	10	
Duplicate Analyzed: 12/18/2012 (12L0666	-DUP1)				Sour	rce: PVL0	961-07				
Total Dissolved Solids	722	20	N/A	mg/l		702			3	10	
Duplicate Analyzed: 12/18/2012 (12L0666	-DUP2)				Sour	rce: PVL1	066-01				
Total Dissolved Solids	1220	20	N/A	mg/l		1220			0	10	
Batch: 12L0669 Extracted: 12/18/12											
Blank Analyzed: 12/19/2012 (12L0669-BL	.K1)										
Phosphorus, Total - P	ND	0.10	N/A	mg/l							

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METHOD BLANK/QC DATA

INORGANICS

		Reporting			Spike	Source		%REC		RPD	Data
Analyte	Result	Limit	MDL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifiers
Batch: 12L0669 Extracted: 12/18/12											
LCC Amalana J. 12/10/2012 /12/ 0//0 DC1	`										
LCS Analyzed: 12/19/2012 (12L0669-BS1)	0.309	0.10	N/A	mg/l	0.300		103	90-110			
Phosphorus,Total - P	0.309	0.10	IN/A	IIIg/I	0.300		103	90-110			
LCS Dup Analyzed: 12/19/2012 (12L0669	-BSD1)										
Phosphorus, Total - P	0.312	0.10	N/A	mg/l	0.300		104	90-110	1	20	
Matrix Spike Analyzed: 12/19/2012 (12L0	669-MS1)				Sour	ce: PVL0	921-01				
Phosphorus,Total - P	4.83	1.0	N/A	mg/l	0.300	4.52	103	80-120			
Matrix Spike Dup Analyzed: 12/19/2012 (12L0669-MS	D1)			Sour	ce: PVL0	921-01				
Phosphorus, Total - P	4.88	1.0	N/A	mg/l	0.300	4.52	120	80-120	1	20	
Batch: 12L0671 Extracted: 12/18/12											
Blank Analyzed: 12/18/2012 (12L0671-BL	.K1)										
Chlorine, Total Residual	ND	0.050	N/A	mg/l							
LCS Analyzed: 12/18/2012 (12L0671-BS1)										
Chlorine, Total Residual	1.04	0.050	N/A	mg/l	1.00		104	90-110			
LCS Dup Analyzed: 12/18/2012 (12L0671	-BSD1)										
Chlorine, Total Residual	1.03	0.050	N/A	mg/l	1.00		103	90-110	2	20	
Duplicate Analyzed: 12/18/2012 (12L0671	-DUP1)				Sour	ce: PVL1	141-01				
Chlorine, Total Residual	ND	0.050	N/A	mg/l		ND				20	
Batch: 12L0676 Extracted: 12/18/12											
Blank Analyzed: 12/18/2012 (12L0676-BL	.K1)										
Turbidity	ND	0.20	N/A	NTU							

TestAmerica Phoenix



4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602)

Sampled: 12/13/12-12/14/12

Engineering and Environmental Consultants Phoenix Project ID: 308032.20

7878 N. 16th Street, Suite 140

Phoenix, AZ 85020 Report Number: PVL1141 Received: 12/17/12

Attention: John Burton

METHOD BLANK/QC DATA

INORGANICS

A a landa	Result	Reporting Limit	MDI	L Units	Spike Level	Source	%REC	%REC	RPD	RPD Limit	Data Qualifiers
Analyte	Result	Limit	MDI	L Units	Levei	Result	%KEC	Limits	KPD	Limit	Quaimers
Batch: 12L0676 Extracted: 12/18/12											
LCS Analyzed: 12/18/2012 (12L0676-BS1))										
Turbidity	18.2	0.20	N/A	NTU	20.0		91	90-110			
LCS Dup Analyzed: 12/18/2012 (12L0676-	-BSD1)										
Turbidity	18.5	0.20	N/A	NTU	20.0		92	90-110	2	20	
Duplicate Analyzed: 12/18/2012 (12L0676	-DUP1)				Sour	rce: PVL1	141-01				
Turbidity	46.6	0.40	N/A	NTU		46.0			1	20	
Batch: 12L0704 Extracted: 12/19/12											
Blank Analyzed: 12/19/2012 (12L0704-BL	K1)										
Specific Conductance	ND	2.0	N/A	umhos/cm							
LCS Analyzed: 12/19/2012 (12L0704-BS1))										
Specific Conductance	948	2.0	N/A	umhos/cm	998		95	90-110			
LCS Dup Analyzed: 12/19/2012 (12L0704-	-BSD1)										
Specific Conductance	957	2.0	N/A	umhos/cm	998		96	90-110	0.9	20	
Duplicate Analyzed: 12/19/2012 (12L0704	-DUP1)				Sour	rce: PVL1	136-01				
Specific Conductance	2510	2.0	N/A	umhos/cm		2470			2	20	
Duplicate Analyzed: 12/19/2012 (12L0704	-DUP2)				Sour	rce: PVL1	136-02				
Specific Conductance	15000	2.0	N/A	umhos/cm		14300			4	20	
Batch: 12L0713 Extracted: 12/19/12											
Blank Analyzed: 12/19/2012 (12L0713-BL	K1)										
Total Suspended Solids	ND	1.0	N/A	mg/l							

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Sampled: 12/13/12-12/14/12

Engineering and Environmental Consultants Phoenix Project ID: 308032.20

7878 N. 16th Street, Suite 140

Phoenix, AZ 85020 Report Number: PVL1141 Received: 12/17/12

Attention: John Burton

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12L0713 Extracted: 12/19/12											
LCS Analyzed: 12/19/2012 (12L0713-BS1))										
Total Suspended Solids	193	10	N/A	mg/l	200		96	90-110			
LCS Dup Analyzed: 12/19/2012 (12L0713-	-BSD1)										
Total Suspended Solids	188	10	N/A	mg/l	200		94	90-110	3	10	
Duplicate Analyzed: 12/19/2012 (12L0713	-DUP1)				Sour	ce: PVL0	970-01				
Total Suspended Solids	118	20	N/A	mg/l		126			7	10	
Duplicate Analyzed: 12/19/2012 (12L0713	-DUP2)				Sour	ce: PVL1	209-03				
Total Suspended Solids	ND	10	N/A	mg/l		2.00				10	
Batch: 12L0728 Extracted: 12/18/12											
Blank Analyzed: 12/18/2012 (12L0728-BL	K1)										
Cyanide, Total	ND	0.050	N/A	mg/l							
LCS Analyzed: 12/18/2012 (12L0728-BS1))										
Cyanide, Total	0.0909	0.050	N/A	mg/l	0.100		91	90-110			
LCS Dup Analyzed: 12/18/2012 (12L0728-	-BSD1)										
Cyanide, Total	0.0928	0.050	N/A	mg/l	0.100		93	90-110	2	20	
Matrix Spike Analyzed: 12/18/2012 (12L0	728-MS1)				Sour	ce: PVL0	976-01				
Cyanide, Total	0.106	0.050	N/A	mg/l	0.100	ND	106	80-120			
Matrix Spike Dup Analyzed: 12/18/2012 (12L0728-MS	D 1)			Sour	ce: PVL0	976-01				
Cyanide, Total	0.0846	0.050	N/A	mg/l	0.100	ND	85	80-120	22	20	R4

TestAmerica Phoenix



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Sampled: 12/13/12-12/14/12

Engineering and Environmental Consultants Phoenix Project ID: 308032.20

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Phoenix, AZ 85020 Report Number: PVL1141 Received: 12/17/12

Attention: John Burton

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12L0776 Extracted: 12/20/12											
Blank Analyzed: 12/20/2012 (12L0776-BL	K1)										
Chemical Oxygen Demand	ND	20	N/A	mg/l							
LCS Analyzed: 12/20/2012 (12L0776-BS1))										
Chemical Oxygen Demand	209	20	N/A	mg/l	200		105	90-110			
LCS Dup Analyzed: 12/20/2012 (12L0776-	-BSD1)										
Chemical Oxygen Demand	213	20	N/A	mg/l	200		106	90-110	2	20	
Matrix Spike Analyzed: 12/20/2012 (12L0	776-MS1)				Sour	ce: PVL0	731-01				
Chemical Oxygen Demand	205	20	N/A	mg/l	200	10.1	97	80-120			
Matrix Spike Dup Analyzed: 12/20/2012 (12L0776-MSI	D 1)			Sour	ce: PVL0	731-01				
Chemical Oxygen Demand	207	20	N/A	mg/l	200	10.1	98	80-120	0.7	20	
Batch: 12L0784 Extracted: 12/20/12											
DI I A I I 12/20/2012 (121.0704 DI	TZ4)										
Blank Analyzed: 12/20/2012 (12L0784-BL Ammonia-N	ND	0.50	N/A	mg/l							
				8							
LCS Analyzed: 12/20/2012 (12L0784-BS1) Ammonia-N	21.0	0.50	N/A	mg/l	25.0		84	80-120			
		0.50	14/11	1116/1	23.0		0.	00 120			
LCS Dup Analyzed: 12/20/2012 (12L0784-	-BSD1) 22.8	0.50	N/A	mg/l	25.0		91	80-120	8	20	
Ammonia-N	22.0	0.50	1 N // 1	1118/1				00-120	o	20	
Matrix Spike Analyzed: 12/20/2012 (12L0	,					ce: PVL0					
Ammonia-N	18.0	0.50	N/A	mg/l	25.0	ND	72	80-120			M2

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Sampled: 12/13/12-12/14/12

RPD

Project ID: 308032.20

Engineering and Environmental Consultants Phoenix 7878 N. 16th Street, Suite 140

Phoenix, AZ 85020 Report Number: PVL1141 Received: 12/17/12

Attention: John Burton

METHOD BLANK/QC DATA

INORGANICS

		Reporting			Spike	Source		%REC		RPD	Data
Analyte	Result	Limit	MDL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifiers
Batch: 12L0784 Extractor	ed: 12/20/12										
Matrix Spike Dup Analyzed	ix Spike Dup Analyzed: 12/20/2012 (12L0784-MSD1)						0977-01				
Ammonia-N	18.2	0.50	N/A	mg/l	25.0	ND	73	80-120	1	20	M2



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Project ID: 308032.20

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Phoenix, AZ 85020 Report Number: PVL1141 Received: 12/17/12
Attention: John Burton

METHOD BLANK/QC DATA

MICROBIOLOGICALS

		Reporting			Spike	Source	%REC		RPD	Data
Analyte	Result	Limit	MDL	Units	Level	Result %REC	Limits	RPD	Limit	Qualifiers

Batch: 12L0673 Extracted: 12/18/12

Blank Analyzed: 12/19/2012 (12L0673-BLK1)

Fecal Coliform ND 1 N/A 2FU/100 m



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Sampled: 12/13/12-12/14/12

Engineering and Environmental Consultants Phoenix

Project ID: 308032.20

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Report Number: PVL1141 Received: 12/17/12

Phoenix, AZ 85020 Attention: John Burton

METHOD BLANK/QC DATA

Nitrogen, Total Kjeldahl

		Reporting			Spike	Source		%REC		RPD	Data
Analyte	Result	Limit	MDL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifiers
Batch: 47712 Extracted: 12/31/12											
Blank Analyzed: 01/02/2013 (48039-4)					Sour	ce:					
Kjeldahl Nitrogen as N	0.114	0.10	0.060	mg/L				-			
LCS Analyzed: 01/02/2013 (48039-5)					Sour	ce:					
Kjeldahl Nitrogen as N	2.53	0.10	0.060	mg/L	2.50		101	90-110			
LCS Dup Analyzed: 01/02/2013 (48039-6)					Sour	ce:					
Kjeldahl Nitrogen as N	2.57	0.10	0.060	mg/L	2.50		103	90-110	2	20	



4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602)

Engineering and Environmental Consultants Phoenix Project ID: 308032.20

7878 N. 16th Street, Suite 140 Sampled: 12/13/12-12/14/12

Phoenix, AZ 85020 Report Number: PVL1141 Received: 12/17/12
Attention: John Burton

DATA QUALIFIERS AND DEFINITIONS

Atypical growth appears to have a toxic effect on surrounding growth, thus affecting the plate count.
Target analyte detected in method blank at or above the method reporting limit (AZ Rev 3).
Sample required dilution due to matrix.
Sample was received and analyzed past holding time.
The dilution water D.O. depletion was > 0.2 mg/L.
The associated blank spike recovery was above method acceptance limits.
Matrix spike recovery was low; the associated blank spike recovery was acceptable.
The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The associated blank spike recovery was acceptable.
The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The associated blank spike recovery was acceptable.
See case narrative.
MS/MSD RPD exceeded the method acceptance limit. Recovery met acceptance criteria.
LFB/LFBD RPD exceeded the method acceptance limit. Recovery met acceptance criteria.
The analysis of the sample required a dilution such that the surrogate recovery calculation does not provide useful

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.

RPD Relative Percent Difference



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Sampled: 12/13/12-12/14/12

Engineering and Environmental Consultants Phoenix Project ID: 308032.20

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Phoenix, AZ 85020 Report Number: PVL1141 Received: 12/17/12

Attention: John Burton

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 1664A SGT	Water		X
EPA 1664A	Water		X
EPA 180.1	Water		X
EPA 200.7	Water		X
EPA 200.8	Water		X
EPA 245.1	Water		X
EPA 300.0	Water		X
EPA 608	Water		X
EPA 624	Water	X	X
HACH 8167	Water		X
SM 2510B	Water		X
SM 2540C	Water		X
SM 2540D	Water		X
SM 4500CN-E	Water		X
SM 4500NH3-D	Water		X
SM 4500-P B, E	Water		X
SM 5210B	Water		X
SM 5220D	Water		X
SM 9221F	Water		X
SM 9222D	Water		X
SM2340B	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

Subcontracted Laboratories

Aquatic Consulting & Testing

1525 W. University, Suite 106 - Tempe, AZ 85281

Analysis Performed: Surfactants-I Samples: PVL1141-01

TestAmerica - Nashville, TN Arizona Cert #AZ0473

2960 Foster Creighton Drive - Nashville, TN 37204

Method Performed: 351.2 Samples: PVL1141-01

TestAmerica Phoenix



COOLER RECEIPT FORM



Nashville, TN 12/19/2012 @ 0820 Cooler Received/Opened On 1. Tracking #_OHO (last 4 digits, FedEx) IR Gun ID 96210146___ FedEx 2. Temperature of rep. sample or temp blank when opened: 3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO.. NA YES...NO...NA 4. Were custody seals on outside of cooler? If yes, how many and where:_ YES...NO...NA 5. Were the seals intact, signed, and dated correctly? ES...NO...NA 6. Were custody papers inside cooler? I certify that I opened the cooler and answered questions 1-6 (intial) YES...NO. SNA (NO 7. Were custody seals on containers: and Intact YES...NO...NA Were these signed and dated correctly? 8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None (lee) Other None Ice-pack Ice (direct contact) Dry ice 9. Cooling process: YES...NO...NA 10. Did all containers arrive in good condition (unbroken)? ÝEŠ...NO...NA 11. Were all container labels complete (#, date, signed, pres., etc)? ΎΕŞ...NO...NA 12. Did all container labels and tags agree with custody papers? YES .. SNO ... NA 13a, Were VOA vials received? YES...NO...NA b. Was there any observable headspace present in any VOA vial? YES..(NQ...NA 14. Was there a Trip Blank in this cooler? If multiple coolers, sequence # I certify that I unloaded the cooler and answered questions 7-14 (intial) 15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA YES...NO...NA b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA 16. Was residual chlorine present? I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) YES...NO...NA 17. Were custody papers properly filled out (ink, signed, etc)? YEŞ...NO...NA 18. Did you sign the custody papers in the appropriate place? 19. Were correct containers used for the analysis requested? YŒS)...NO...NA ES...NO...NA 20. Was sufficient amount of sample sent in each container? I certify that I entered this project into LIMS and answered questions 17-20 (intial) I certify that I attached a label with the unique LIMS number to each container (intial)

21. Were there Non-Conformance issues at login? YES...(10) Was a NCM generated? YES...(10)...#

Subcontract Order - TestAmerica Phoenix (PVL1141)

Please enter the following code into the Job PO Number field for automated UDZ transfer files: Sub PHX PVL1141

SENDING LABORATORY:	RECEIVING LABORATORY:	
TestAmerica Phoenix 4625 East Cotton Center Blvd. Ste 189 Phoenix, AZ 85040	TestAmerica Nashville 2960 Foster Creighton Drive Nashville, TN 37204 Phone :(800) 765-0980	Loc: 490 15127
Phone: (602) 437-3340 Fax: (602) 454-9303 Project Manager: Kylie Emily Client: Engineering and Environmental Consultants Tucson	Fax: 615-726-0954 Project Location: Arizona Receipt Temperature:°C°C	Ice: Y / N

Analysis	Units	Due	Expires	Interlab Price Sเ	ırch	Comments
Sample ID: PVL1141-01 (A	DOT-TUC-CC	MP - Water)	Sample	d: 12/14/12 13:00		
TKN	mg/l	12/27/12	01/11/13 13:0	0 \$37.50	0%	
Containers Supplied: 250 ml Poly w/H2SO4 (G)						

Ahaion Malono
Released By

Released By

<u>/2-/8-/3./</u>70 Date/Time

Date/Time

Received By

Date/Time

Received By

N 121912 108.

ate/Time Page 1 of 1

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY FORM

PULLING

Delinquished by: (1) 1/1/2 17: W	SAME S	Remodished By: Date / Time		Relinquished By: Date/Time:									ANOT-TUC-COMD WW	Sample Description Sample Container Matrix Type	Sampler: Loss	John Burron	Phx AZ 85020	7878 x 16# ST. Saite 140	Client Name / Address:	THE LEADER IN ENVIRONMENTAL TESTING TAL-0013-550 (10/10)
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ر ار هي .	45/)	J. Holling									Wash	ciffer) éi	Sampling Date	Fax Number:	602-248	*	308032,20	Project/PO Number:	oenix - 4625 ∷son - 1870 s Vegas - 60
Hecelved		Received	1 Kille	Received By:								4/3/12 2300	- 301£	Sampling Time	602-248-7851	602-248-7702		-	nber:	S E. Cotton C W. Prince Ro
		/	10 CZ	By:										Preservative	357	10 N 5/H				Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3; Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264
			JAN CX	· ·			•						7	Si.	fac tal	tan 5/H	ts ard	eres.		Suite 189, F), Tucson, A : 5E, Las Ve
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intact	48 hours	24 hours	same day _	Turnaround Time:								<u>`</u>		E	: 0/1 :\ 4	X, 10= -PA	<u>લ્લ</u>	2/ SP	quired) 454-93(3
				Time:											7	PA	1			&
(Cneck) on ice _	normal	_ 5 days	72 hours	(Check)								16-	-01	Specia						Page
2			irs						:			'		Special Instructions						of

Note: By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.



AQUATIC CONSULTING & TESTING, INC.

1525 W. University Drive, Suite 106 P.O. Box 1510 Tempe, Arizona 85281

Phone: (480) 921-8044 • Fax: (480) 921-0049

Lic. No. AZ0003

LABORATORY REPORT

Client: TestAmerica

4625 E. Cotton Center Blvd.

Building 3, Suite 189 Phoenix, AZ 85040

Attn: Kylie Emily

Date Submitted: 12/18/12

Date Reported: 01/08/13

Project: PVL1141

RESULTS

Client ID: PVL1141-01 ACT Lab No.: BU12883 Sample Type: Water

Sample Time: 12/14/12 13:00

Analysis Date

Start

End Method No. MDL

ADL R

Result 0.122 Unit A

Analyst

MBAS Surfactants

Parameter

12/20/12

12/20/12

SM5540 C

0.05

mg/L as LAS

AZ

H3 - Sample receive and analyzed past hold time.

Reviewed by:

Frederick A. Amalfi, Ph

Laboratory Director



AQUATIC CONSULTING & TESTING, INC.

1525 W. University Drive, Suite 106 P.O. Box 1510 Tempe, Arizona 85281 Phone: (480) 921-8044 • Fax: (480) 921-0049

Lic. No. AZ0003

QC Report

QC Parameter	Sample Result	Method Blank Result	QCS % Rec	Duplicate Result	Duplicate RPD	Spike Result	Spike % Rec	
Batch ID: MBAS-63092 QC ID: MBAS Surfactants	BU1288	3 Samples: BU128	95.9			0.433	93.4	

SUBCONTRACT ORDER

TestAmerica Phoenix **PVL1141**

ENDING LABORATORY:

TestAmerica Phoenix

4625 East Cotton Center Blvd. Ste 189

Phoenix, AZ 85040

Phone: (602) 437-3340 Fax: (602) 454-9303

Project Manager:

Kylie Emily

RECEIVING LABORATORY:

Aquatic Consulting & Testing 1525 W. University, Suite 106

Tempe, AZ 85281 Phone: (480) 921-8044

Fax: (480) 921-0049

4°C wet ice

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: PVL1141-01	Water	Sampled:12/14/12 13:00	A Section was no accommodated to	
Surfactants-I	12/27/12 23	3:59 12/16/12 13:00	-	
Containers Supplied:				BU-12883

Run Past Hold

Date

Released By

Date

Received By

Date

Page 1 of 1

Appendix F

Discharge Monitoring Reports

Attachment E ADOT Discharge Monitoring Report for Analytical Monitoring



ARIZONA DEPARTMENT OF TRANSPORTATION Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS:
BOYCE THOMPSON AND OUTEUM
37615 US 60
Superior At 85273

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services Water Quality Group 1611 W. Jackson Street, MD EM02 Phoenix, AZ 85007

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I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible forgathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

JOTANY A KEN NAME OF PRINCIPAL EXECUTIVE OFFICER

PARCIPAL EXECUTIVE OFFICER

1412112 180-833-8 US TELEPHONE

Appendix D Page 11 of 11 STORMWATER MONITORING GUIDANCE MANUAL for Construction Activities

Attachment E

ADOT Discharge Monitoring Report for Analytical Monitoring



ARIZONA DEPARTMENT OF TRANSPORTATION Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

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37615 US 60	
Superior At 85273	

AZS000018-2008

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ADOT Office of Environmental Services Water Quality Group 1611 W. Jackson Street, MD EM02 Phoenix, AZ 85007

PERMIT NUMBER MONITORING POINT ID PARAMETERS TURBIDITY Streamflow ANALYSIS/TYPE; (Field, Lab, Calculation*) Field Calc.* NTUs ft3/sec kg/day TMDL PERMIT Info LIMITS Max. Only 3 7 2 9 10 11 12 13 14 18 19 20 21 22 23 24 25 26 27 28 29 30 31 Monthly Mean Highest Value Lowest Value * TMDL Loading Calculations in kg/day: mg/Lx Streamflow x 2.4465 :g/Lx Streamflow x 0.0024465

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NAME OF PRINCIPAL EXECUTIVE OFFICER

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ITTUAT PRINCIPAL EXECUTIVE OFFICER

RINGIPAL EXECUTIVE OFFICER

1/11/13 4480-833-8268 TELEPHONE

.chment E ADOT Discharge Monitoring Report for Analytical Monitoring



ARIZONA DEPARTMENT OF TRANSPORTATION Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

12 and 3

NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: BoyceTHompson MBONTEUM 37615 45 60 Superior At 85273

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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ARIZONA DEPARTMENT OF TRANSPORTATION Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS:
BOYLE THOMPSON ARBUYTEUM
37615 US 40
Superior At 85273

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services Water Quality Group 1611 W. Jackson Street, MD EM02 Phoenix, AZ 85007

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JOHNEY A KOLK 4/11/13

IMANG OF PRINCIPAL EXPECUTIVE OFFICER

WIND PRINCIPAL EXECUTIVE OFFICER

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NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS:
BOYLETHOMPSON ANSOYTEM
37115 US 60
Superior At 85273
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COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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NAME OF PRINCIPAL EXECUTIVE OFFICER
TELEPRINGS ALEXECUTIVE OFFICER

ELECTIVE OFFICER

480-833-8268

ADOT Discharge Monitoring Report for Analytical Monitoring



ARIZONA DEPARTMENT OF TRANSPORTATION Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS:	١.
BOYUE THOMPSON ALBORTUM 37615 US 60	1
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Superior At 85273	

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

ADOT Office of Environmental Services Water Quality Group 1611 W. Jackson Street, MD EM02 Phoenix, AZ 85007

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Monthly Discharge Monitoring Report (DMR) Forn for the ADOT Statewide Permit #AZS000018-2008 NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS:

I-10 Marsh Station to Cienega Creek ARA-010-E(20)A \$ 010-E-NFA

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W Jackson Street, MD EM02

Phoenix, AZ 85007

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* TMDL Loading Calculations in kg/day: mg/L x Streamflow x 2.4465 :g/L x Streamflow x 0.0024465

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Tom Billings

NAME OF PRINCIPAL EXECUTIVE OFFICER

TITLE OF PRINCIPAL EXECUTIVE OFFICER

PAL EXECUTIVE OFFICER

7/9/12 DATE

430-784-2910 TELEPHONE



ARIZONA DEPARTMENT OF TRANSPORTATION

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS:

I-10 Marsh Station to Cienega Creek RA-010-E(20)A \$ 010-E-NFA

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W Jackson Street, MD EM02

Phoenix, AZ 85007

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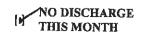
TITLE OF PRINCIPAL EXECUTIVE OFFICER

DATE 480-784-2910 TELEPHONE



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Phoenix, AZ 85007

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PALEXECUTIVE OFFICER



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Water Quality Group

1611 W Jackson Street, MD EM02

Phoenix, AZ 85007

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Number of Exceedances

NAME OF PRINCIPAL EXECUTIVE OFFICER

TITLE OF PRINCIPAL EXECUTIVE OFFICER

:g/L x Streamflow x 0.0024465



NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS:

I-10 Marsh station to Cienega Creek ARRA-010-E(20)A \$ 010-E-NFA

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W Jackson Street, MD EM02

Phoenix, AZ 85007

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I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Bused on my inquiry of the person or persons who manage the system, or those persons directly responsible forgathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting fulse information, including the possibility of fine and imprisonment for knowing violations.

NAME OF PRINCIPAL EXECUTIVE OFFICER

TITLE OF PRINCIPAL EXECUTIVE OFFICER

IPAL EXECUTIVE OFFICER



NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS:

I-10 Marsh station to Cienega Creek exA-010-E(20)A \$ 010-E-NFA

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W Jackson Street, MD EM02

Phoenix, AZ 85007

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I certify under penalty of law, that this document and all attachments were prepared ander my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who munage the system, or those persons directly responsible forgathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

om Billings

NAME OF PRINCIPAL EXECUTIVE OFFICER

TITLE OF PRINCIPAL EXECUTIVE OFFICER

EXECUTIVE OFFICER

480-784-2910

TELEPHONE



NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS:

I-10 Marsh station to Cienega Creek egA-010-E(20)A \$ 010-E-NFA

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W Jackson Street, MD EM02

Phoenix, AZ 85007

A	ZS000018-2008			09	01911011		
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I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly guthered and evaluated the information submitted. Bused on my inquiry of the person or persons who manage the system, or those persons directly responsible forgathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting fulse information, including the possibility of fine and imprisonment for knowing violations.

Iom Billings

NAME OF PRINCIPAL EXECUTIVE OFFICER

TITLE OF PRINCIPAL EXECUTIVE OFFICER

AL EXECUTIVE OFFICER



NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS:

I-10 Marsh station to Cienega Creek ARRA-010-E(20)A \$ 010-E-NFA

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

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ADOT Office of Environmental Services

Water Quality Group

1611 W Jackson Street, MD EM02

Phoenix, AZ 85007

AZS000018-2008			100			1 2
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I certify under penalty of law, that this document and all uttuchments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Bused on my inquiry of the person or persons who manage the system, or those persons directly responsible forgathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting fulse information, including the passibility of fine and imprisonment for knowing violations.

NAME OF PRINCIPAL EXECUTIVE OFFICER

TITLE OF PRINCIPAL EXECUTIVE OFFICER

IPAL EXECUTIVE OFFICER



ARIZONA DEPARTMENT OF TRANSPORTATION Monthly Discharge Manitoring Report (DMD) Form

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS:

I-10 Marsh station to Cienega Creek MA-010-E(20)A \$ 010-E-NFA

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W Jackson Street, MD EM02

Phoenix, AZ 85007

	AZS000018-2008			#3	3	09	11101	12
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I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible forgathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting fulse information, including the possibility of fine and imprisonment for knowing violations.

Tom Billings

NAME OF PRINCIPAL EXECUTIVE OFFICER

TITLE OF PRINCIPAL EXECUTIVE OFFICER

IPAL EXECUTIVE OFFICER

430-

TELEPHONE



NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS:

AZS000018-2008

I-10 Marsh station to Cienega Creek RFA-010-E(201)A \$ 010-E-NFA

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

#/

ADOT Office of Environmental Services

Water Quality Group

1611 W Jackson Street, MD EM02

Phoenix, AZ 85007

AZS000018-2008 PERMIT NUMBER MONITORING POINT ID MONTH YEAR PARAMETERS TURBIDITY ANALYSIS TYPE: Field Field Field Field Color
PARAMETERS TURBIDITY Streamflow
ANALYSIS TYPE: Stream, tow
ANALYSIS TYPE: Stream, tow
(Field, Lab, Calculation*)
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I certify under penalty of law, that this document and all attuchments were prepared under my direction or supervision in accordance with a system designed to assure under my direction or supervision in accordance with a system designed to assure that qualified personnel properly guthered and evaluated the information submitted. Bused on my inquiry of the person or persons who manage the system, or those persons directly responsible forgathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Tom Billings NAME OF PRINCIPAL EXECUTIVE OFFICER

TITLE OF PRINCIPAL EXECUTIVE OFFICER

AL EXECUTIVE OFFICER

TELEPHONE



NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS:

1.7000001E 2000

I-10 Marsh station to Cienega Creek MA-010-E(20)A \$ 010-E-NFA

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W Jackson Street, MD EM02

Phoenix, AZ 85007

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I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly guthered and evaluated the information submitted. Bused on my inquiry of the person or persons who manage the system, or those persons directly responsible forgathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting fulse information, including the possibility of fine and imprisonment for knowing violations.

Tom Billings NAME OF PRINCIPAL EXECUTIVE OFFICER

TITLE OF PRINCIPAL EXECUTIVE OFFICER

EXECUTIVE OFFICER

10|8|₁₂ 480-784-2910



NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS:

I-10 Marsh station to Cienega Creek RA-010-E(201)A \$ 010-E-NFA

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W Jackson Street, MD EM02

Phoenix, AZ 85007

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I certify under penalty of law, that this document and all attachments were prepared ander my direction or supervision in accordance with a system designed to assure that qualified personnel properly guthered and evaluated the information submitted. Bused on my inquiry of the person or persons who manage the system, or those persons directly responsible forgathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penulties for submitting fulse information, including the possibility of fine and imprisonment for knowing violations.

Tom Billings

NAME OF PRINCIPAL EXECUTIVE OFFICER

TITLE OF PRINCIPAL EXECUTIVE OFFICER

EXECUTIVE OFFICER

430-784-2910 TELEPHONE



ARIZONA DEPARTMENT OF TRANSPORTATION

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS:

I-10 Marsh station to Cienega Creek 144A-010-E(20)A \$ 010-E-NFA COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

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ADOT Office of Environmental Services

Water Quality Group

1611 W Jackson Street, MD EM02

Phoenix, AZ 85007

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I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure ander my accument or supervision in accordance with a system assgrea to assure that qualified personnel properly guthered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible forgathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penulties for submitting fulse information, including the possibility of fine and imprisonment for knowing violations. NAME OF PRINCIPAL EXECUTIVE OFFICER

:g/L x Streamflow x 0.0024465

TITLE OF PRINCIPAL EXECUTIVE OFFICER

IPAL EXECUTIVE OFFICER



NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS:

AZS000018-2008

I-10 Marsh station to Cienega Creek 144A-010-E(201)A \$ 010-E-NFA

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

#2-

ADOT Office of Environmental Services

Water Quality Group

1611 W Jackson Street, MD EM02

Phoenix, AZ 85007

	PERMIT N	UMBER		MONITORING P	OINT ID	MONTH	YEAL	D
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Tom Billings NAME OF PRINCIPAL EXECUTIVE OFFICER

TITLE OF PRINCIPAL EXECUTIVE OFFICER

AL EXECUTIVE OFFICER

TELEPHONE



ARIZONA DEPARTMENT OF TRANSPORTATION

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS:

I-10 Marsh station to Cienega Creek NA-010-E(201)A \$ 010-E-NFA

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W Jackson Street, MD EM02

Phoenix, AZ 85007

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I certify under penalty of law, that this document and all attackments were prepared I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible forgathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. NAME OF PRINCIPAL EXECUTIVE OFFICER

TITLE OF PRINCIPAL EXECUTIVE OFFICER

PAL EXECUTIVE OFFICER



ARIZONA DEPARTMENT OF TRANSPORTATION

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS:

I-10 Marsh station to Genega Creek 1844-010-E(20)A \$ 010-E-NFA

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

ADOT Office of Environmental Services

Water Quality Group

1611 W Jackson Street, MD EM02

Phoenix, AZ 85007

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I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted that quanties personne property gameres and evaluates we information summuted. Bused on my inquiry of the person or persons who manage the system, or those persons directly responsible forgathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am owner that there are significant penalties for submitting fulse information, including the possibility of fine and imprisonment for knowing violations.

NAME OF PRINCIPAL EXECUTIVE OFFICER

ELL TITLE OF PRINCIPAL EXECUTIVE OFFICER

480-784-2910 TELEPHONE



ARIZONA DEPARTMENT OF TRANSPORTATION Monthly Discharge Monitoring Report (DMR) Form

for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS:

I-10 Marsh station to Cienega Creek MA-010-E(20)A \$ 010-E-NFA

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

ADOT Office of Environmental Services

Water Quality Group

1611 W Jackson Street, MD EM02

Phoenix, AZ 85007

AZS	5000018-2008				172		1 2
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I certify under penalty of law, thut this document and all attuchments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Bused on my inquiry of the person or persons who manage the system, or those persons directly responsible forgathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting fulse information, including the possibility of fine and imprisonment for knowing violations.

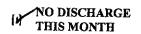
NAME OF PRINCIPAL EXECUTIVE OFFICER

ELL TITLE OF PRINCIPAL EXECUTIVE OFFICER



ARIZONA DEPARTMENT OF TRANSPORTATION

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008



PROJECT NAME AND ADDRESS:

I-10 Marsh station to Cienega Creek MA-010-E(201)A \$ 010-E-NFA

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W Jackson Street, MD EM02

Phoenix, AZ 85007

		000018-2008 AIT NUMBER		# 3		12	1101	12
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NAME OF PRINCIPAL EXECUTIVE OFFICER

TITLE OF PRINCIPAL EXECUTIVE OFFICER

430-784-2910

Attachment E ADOT Discharge Monitoring Report for Analytical Monitoring



ARIZONA DEPARTMENT OF TRANSPORTATION Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS:	
I-10 Cienega Creek to Marsh	Creek

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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l certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible forgathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am oware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OFFICER

Regional Environmental Manager OF FIGNCIPAL EXECUTIVE OFFICER

PRINCIPAL EXECUTIVE OFFICER

11/30/12

(602) 370-6387

ADOT Discharge Monitoring Report for Analytical Monitoring



ARIZONA DEPARTMENT OF TRANSPORTATION Monthly Discharge Monitoring Report (DMR) Form

for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: I-10 Cienega Creek to Marsh Creek

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

AZCON 74798

AZS000018-2008 PERMIT NUMBER MONITORING POINT ID

0 MONTH YEAR

PARAMETERS	TURBIDITY		Streamflow	
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John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OFFICER

Regional Environmental Manager OF PRINCIPAL EXECUTIVE OFFICER

(602) 370-6387

RE OF PRINCIPAL EXECUTIVE OFFICER

ADOT Discharge Monitoring Report for Analytical Monitoring



ARIZONA DEPARTMENT OF TRANSPORTATION Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: I-10 Cienega Creek to Marsh Creek

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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 PERMIT NUMBER
 MONITORING POINT ID
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John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OFFICER

Regional Environmental Manager

OF RESCIPAL EXECUTAVE OFFICER

7-16-13

(602) 370-6387

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER

ADOT Discharge Monitoring Report for Analytical Monitoring



ARIZONA DEPARTMENT OF TRANSPORTATION Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE
THIS MONTH

PROJECT NAME AND ADDRESS:	
I-10 Cienega Creek to Marsh Cree	k

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

AZCON 74798

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John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OFFICER
Regional Environmental Manager

TITNE OF PRINCIPAL EXECUTIVE OFFICER
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER

(602) 370-6387

ADOT Discharge Monitoring Report for Analytical Monitoring



ARIZONA DEPARTMENT OF TRANSPORTATION

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: I-10 Cienega Creek to Marsh Creek

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

AZCON 74798

AZS000018-2008 PERMIT NUMBER MONITORING POINT ID MONTH

PARAMETERS	TU	RBIDITY				Streamflow	
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NAME OF PRINCIPAL EXECUTIVE OFFICER Regional Environmental Manager

FOF PROCIPAL EXECUTIVE OFFICER

- 162-13 DATE (602) 370-6387 TELEPHONE

REOF PRINCIPAL EXECUTIVE OFFICER



ARIZONA DEPARTMENT OF TRANSPORTATION Monthly Discharge Monitoring Report (DMR) Form

NO DISCHARGE THIS MONTH for the ADOT Statewide Permit #AZS000018-2008

PROJECT NAME AND ADDRESS: I-10 Cienega Creek to Marsh Creek

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

9200N - 74798 AZS000018-2008 PERMIT NUMBER MONITORING POINT ID MONTH YEAR

PARAMETERS		TURBIDITY	Streamflow	
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I certify under penalty of law, that this document and all attachments were prepared I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible forgathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OFFICER

Regional Environmental Manager

FRINCIPAL EXECUTIVE OFFICER

URE OF PRINCIPAL EXECUTIVE OFFICER

7-16-13

(602) 370-6387 TELEPHONE



NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: I-10 Cienega Creek to Marsh Creek

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

AZCON 74798

AZS000018-2008 1 0 2 2 0 1 3
PERMIT NUMBER MONITORING POINT ID MONTH YEAR

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John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OFFICER

Regional Environmental Manager

TLAOF PROCIPAL EXECUTIVE OFFICER

RE OF PRINCIPAL EXECUTIVE OFFICER

7-16-13 DATE (602) 370-6387 TELEPHONE

Appendix D Page No. 11

ADOT Discharge Monitoring Report for Analytical Monitoring



ARIZONA DEPARTMENT OF TRANSPORTATION Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: I-10 Cienega Creek to Marsh Creek

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

AZUUN 74798 AZS000018-2008 0 2 PERMIT NUMBER MONITORING POINT ID MONTH PARAMETERS ANALYSISTYPE TURBIDITY Streamflow

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I certify under penalty of low, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel property gathered and evaluated the information submitted. Based on my inquity of the person or persons who manage the system, or those persons directly responsible forgothering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting fake information, including the possibility of fine and imprisonment for knowing violations.

John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OFFICER

Regional Environmental Manager

7 - 14 - 13_ (602) 370-6387

GNATURE OF PRINCIPAL EXECUTIVE OFFICER

* TMDL Loading Calculations in kg/day: mg/L x Streamflow x 2.4465 :g/L x Streamflow x 0.0024465



NO DISCHARGE
THIS MONTH

PROJECT NAME AND ADDRESS: I-10 Cienega Creek to Marsh Creek

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

AZCON 14798			
AZS000018-2008	1	0 3	2 0 1 3
PERMIT NUMBER	MONITORING POINT ID	MONTH	YEAR

PARAMETER		TURBIDITY					Streamflow	
ANALYSIS TYPE: (Field, Lab, Calculation*)		Field					Field	Calc.*
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John J Baker, CPESC ECC
NAME OF PRINCIPAL EXECUTIVE OFFICER
Regional Environmental Manager

gional Environmental Manage A OF BUNCIPAL EXECUTIVE OFFICER

E OF PRINCE AL EXECUTIVE OFFICER

DATE (602) 370-6387

ADOT Discharge Monitoring Report for Analytical Monitoring



ARIZONA DEPARTMENT OF TRANSPORTATION Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: I-10 Cienega Creek to Marsh Creek

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

12002 74798 AZS000018-2008 0 3 PERMIT NUMBER MONITORING POINT ID MONTH YEAR PARAMETERS TURBIDITY Streamflow ANALYSIS TYPE: Field Field Calc.* (Field, Lab, Calculation*) NTUs UNITS ft³/sec kg/day Min. TMDL PERMIT Mean Info LIMITS Max. Only 2 4 5 6 8 9 10 11 12 MONTH 13 14 15 THE 16 Q. 18 DAY 19 20 21 22 23 24 25 26 27 28 29 30 31 Monthly Mean Highest Value

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible forgathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Lowest Value Number of Exceedances

John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OFFICER

Regional Environmental Manager E OF PRINCIPAL EXECUTIVE OFFICER

OF PRINCIPAL EXECUTIVE OFFICER

(602) 370-6387 TELEPHONE

* TMDL Loading Calculations in kg/day: mg/L x Streamflow x 2.4465 :g/L x Streamflow x 0.0024465

ADOT Discharge Monitoring Report for Analytical Monitoring



ARIZONA DEPARTMENT OF TRANSPORTATION Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

X NO DISCHARGE
THIS MONTH

PROJECT NAME AND ADDRESS: I-10 Cienega Creek to Marsh Creek

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

AZCON 74798			
AZS000018-2008	1	0 4	2 0 1
PERMIT NUMBER	MONITORING POINT ID	MONTH	YEAR

PARAMETER:		TURBIDITY	Streamflow
ANALYSIS TYPE: (Field, Lab, Calculation*)		Field	Field Calc.*
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John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OFFICER

Regional Environmental Manager

TURE OF PRINCIPAL EXECUTIVE OFFICER

7 | 6-13 (602) 370-6387

TELEPHONE



NO DISCHARGE
THIS MONTH

PROJECT NAME AND ADDRESS: I-10 Cienega Creek to Marsh Creek

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

AZS000018-2008

PERMIT NUMBER

D 4

MONITORING POINT ID

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PARAMETERS	TURBIDITY	Streamflow	
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John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OFFICER

Regional Environmental Manager

TITLE OF PRINCIPAL EXECUTIVE OFFICER

DATE (602) 370-6387

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER



X NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: I-10 Cienega Creek to Marsh Creek

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

AZS000018-2008 1
PERMIT NUMBER MONITORING POINT ID

0 5 2 0 1 3 MONTH YEAR

PARAMETERS ANALYSIS TYPE: (Field, Lab, Calculation*)		TURBIDITY		Streamflow	
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		ng Calculations in kg/day: m	y/I v Streamflow v 2 4465 va/I	x Streamflow x 0.0024465	.1

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John J Baker, CPESC ECC
NAME OF PRINCIPAL EXECUTIVE OFFICER
Regional Environmental Manage

Regional Environmental Manager

(602) 370-6387

OF PRINCIPAL EXECUTIVE OFFICER



NO DISCHARGE
THIS MONTH

PROJECT NAME AND ADDRESS: I-10 Cienega Creek to Marsh Creek

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

AZS000018-2008

PERMIT NUMBER

M

MONITORING POINT ID

0 5 2 0 1 3 MONTH YEAR

PARAMETERS		TURBIDITY	Streamflow
ANALYSIS TYPE: (Field, Lab, Calculation*)		Field	Field Calc.*
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John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OFFICER

Regional Environmental Manager

7-16-13

(602) 370-6387

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER



Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: I-10 Cienega Creek to Marsh Creek

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

AZS000018-2008 1
PERMIT NUMBER MONITORING POINT ID

0 6 2 0 1 3 MONTH YEAR

PARAMETERS		TURBIDITY		Streamflow	
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I vertify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible forgathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OFFICER
Regional Environmental Manager

7 - ル- 13 (602) 370-6387

JAE OF PRINCIPAL EXECUTIVE OFFICER



ARIZONA DEPARTMENT OF TRANSPORTATION Monthly Discharge Munistring Penert (DMP) Form

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE
THIS MONTH

PROJECT NAME AND ADDRESS: I-10 Cienega Creek to Marsh Creek

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

AZS000018-2008

PERMIT NUMBER

2

MONITORING POINT ID

MONTH

YEAR

PARAMETERS		TURBIDITY					Streamflow	
ANALYSIS 7 (Field, Lab, C	TYPE: (alculation*)	Field				Field	Calc.*	
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John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OFFICER
Regional Environmental Manager

TIT A OFFICER EXECUTIVE OFFICER

7 - 14 - 17 (602) 370-6387 TELEPHONE

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER



Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE
THIS MONTH

PROJECT NAME AND ADDRESS:

Alamo Lake High Water Boat Ramp & Parking Lot & Cholla Boat Ramp

Alamo Lake State Park

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W Jackson Street, MD EM02

AZCON-72735		MP1				
PERMIT NUMBER	١	MONITORING I	OI TNIO	MONTH	October YEA	R 2012
PARAMETERS	TURBIDITY				Streamflow	
ANALYSIS TYPE: (Field, Lab, Calculation*)	Field				Field	Calo.*
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I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my buquity of the person or persons who manage the system, or those persons directly responsible forgathering information, the information submitted is, to the best of my knowledge and belief, one, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Ronald Kelton	11-1-12
NAME OF PRINCIPAL EXECUTIVE OFFICER	DATE
Sr. Vice President	480-837-3684
TITLE OF PRINCIPAL EXECUTIVE OFFICER	TELEPHONE
The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER



Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS:

Alamo Lake High Water Boat Ramp & Parking Lot & Cholla Boat Ramp

Alamo Lake State Park

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W Jackson Street, MD EM02

ſ	AZCON-72735			MP2				
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I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnet properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible forgathering information, the information submitted is, to the best of my knowledge and helief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Ronald Kelton

NAME OF PRINCIPAL EXECUTIVE OFFICER

Sr. Vice President

TITLE OF PRINCIPAL EXECUTIVE OFFICER

SIGNATOR OF PRINCIPAL EXECUTIVE OFFICER

11-1-12

480-837-3684

TELEPHONE



Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS:

Alamo Lake High Water Boat Ramp & Parking Lot & Cholla Boat Ramp

Alamo Lake State Park

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W Jackson Street, MD EM02

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PER	MIT NUMBER		MONITO	DRING POINT	ID_	MONTH	October YEAF	2012
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PARAMET	ERS	TURBIDITY					Streamflow	
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(Field, Lab.	Calculation*)	Pieta					Lield	Caic."
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I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted based on my inquiry of the person or persons who manage the system, or those persons directly responsible forgathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I om aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Ronald Kelton

NAME OF PRINCIPAL EXECUTIVE OFFICER

Sr. Vice President

TITLE OF PRINCIPAL EXPLOTIVE OFFICER

480-837-3684

TELEPHONE

SKINDE OF PRINCIPAL EXECUTIVE OFFICER



Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS:

Alamo Lake High Water Boat Ramp & Parking Lot & Cholla Boat Ramp

Alamo Lake State Park

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W Jackson Street, MD EM02

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Ronald Kellon

NAME OF PRINCIPAL EXECUTIVE OFFICER

Sr. Vice President

TITLE OF PRINCIPAL ENPOYIVE OFFICER

THE OF PRINCIPAL EXECUTIVE OFFICER

12-1-12

480-837-3684

TELEPHONE



Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS:

Alamo Lake High Water Boat Ramp & Parking Lot & Cholla Boat Ramp

Alamo Lake State Park

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W Jackson Street, MD EM02

AZCON-72735	IMP2	
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Ronald Kelton
NAME OF PRINCIPAL EXECUTIVE OFFICER
Sr. Vice President
TITLE OF PRINCIPAL EXECUTIVE OFFICER
TELEPTIONE

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER



Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE
THIS MONTH

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Alamo Lake High Water Boat Ramp & Parking Lot & Cholla Boat Ramp

Alamo Lake State Park

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ADOT Office of Environmental Services

Water Quality Group

1611 W Jackson Street, MD EM02

	ON-72735			MP3				
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onald	Kelton	

NAME OF PRINCIPAL EXECUTIVE OFFICER

Sr. Vice President

TITLE OF PRINCIPAL EXECUTIVE OFFICER

DATE 480-837-3684

TELEPHONE

NIGNA PROPERTY PROPERTY OFFICER



Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE
THIS MONTH

PROJECT NAME AND ADDRESS:

Alamo Lake High Water Boat Ramp & Parking Lot & Cholla Boat Ramp

Alamo Lake State Park

AZCON-72735

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

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MP1

ADOT Office of Environmental Services

Water Quality Group

1611 W Jackson Street, MD EM02

	PERN	IIT NUMBER]	MONITORING POINT	' ID	MONTH	December YEAR	₹ 2012
								
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Ronald Kellon

NAMB OF PRINCIPAL EXECUTIVE OFFICER

Sr. Vice President

TITLE OF PRINCIPAL EMECUTIVE OFFICER

480-8

480-837-3684 TELEMONE

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER



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Water Quality Group

1611 W Jackson Street, MD EM02

AZCON-72735			MP2				
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480-837-3684

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Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

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Water Quality Group

1611 W Jackson Street, MD EM02

AZC	CON-72735			MP3				
	AIT NUMBER		MONITO	RING POINT	ID.	MONTH	December YEA	R 2012
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Sr. Vice President

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OF PRINCIPAL EXECUTIVE OFFICER.

480-837-3684

TELEPHONE



Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

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AZ\$000018-2008

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Mail to:

MP1

ADOT Office of Environmental Services

Water Quality Group

1611 W Jackson Street, MD EM02

	PE	RMIT NUMBER		MONITORI	NG POINT	ID	MONTH	January YEAI	R 2013
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Daniel R. Monks	2/11/2013
NAME OF PRINCIPAL EXECUTIVE OFFICER	DATE
Manager	719-495-3621
TITLE OF PRINCIPAL EXECUTIVE OFFICER	TELEPHONE



Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE **[X**] THIS MONTH

PROJECT NAME AND ADDRESS:

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Water Quality Group

1611 W Jackson Street, MD EM02

AZS	000018-2008			MP2				
PERN	MIT NUMBER		MONITO	DRING POINT	ID	MONTH	January YEA	R 2013
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Daniel R. Monks

NAME OF PRINCIPAL EXECUTIVE OFFICER

Manager

TITLE OF PRINCIPAL EXECUTIVE OFFICER

2/11/2013

719-495-3621

TELEPHONE

TURE OF PRINCIPAL PARCETIVE OFFICER



Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

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Water Quality Group 1611 W Jackson Street, MD EM02

AZS000018-2008	MP3			
PERMIT NUMBER	MONITORING POINT ID	MONTH	January YEAR 20	13

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Daniel R. Monks

NAME OF PRINCIPAL EXECUTIVE OFFICER

Manager

TITLE OF PRINCIPAL EXECUTIVE OFFICER

2/11/2013

рате 719-495-3621

TELEPHONE

TURE OF PRINCIPAL XXXC TIVE OFFICER



Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS:

Alamo Lake High Water Boat Ramp & Parking Lot & Cholla Boat Ramp

Alamo Lake State Park

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W Jackson Street, MD EM02

			A 4 D 4				
	000018-2008		MP1				
PERN	MIT NUMBER	t .	MONITORING	POINT ID	MONTH	FebruaryYEA	R 2013
PARAMETE	RS	TURBIDITY				Streamflow	
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(Field, Lab, C		Field				Field	Calc.*
UNITS		NTUs				ft ³ /sec	kg/day
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Number of Exceedances							
* TMDL Load	ng Calculations in	n kg/day: mg	/L x Streamflov	w x 2.4465	:g/L x Streamflo	w x 0.0024465	

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible forgathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penaltles for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Daniel R. Monks	2/11/2013
NAME OF PRINCIPAL EXECUTIVE OFFICER	DATE
Manager	719-495-3621
TITLE OF PRINCIPAL EXECUTIVE OFFICER	TELEPHONE



Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS:

Alamo Lake High Water Boat Ramp & Parking Lot & Cholla Boat Ramp

Alamo Lake State Park

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to: ADOT Office of Environmental Services

Water Quality Group

1611 W Jacksou Street, MD EM02

AZS000018-2008	MP2						
PERMIT NUMBER	MONITORING POINT ID	MO	NTH	Febru	агу ҮЕ.	AR 20)13

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* TMDL Load	* TMDL Loading Calculations in kg/day: mg/L x Streamflow x 2.4465 :g/L x Streamflow x 0.0024465								

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Daniel R. Monks

NAME OF PRINCIPAL EXECUTIVE OFFICER

Manager

TITLE OF PRINCIPAL EXECUTIVE OFFICER

TIVE OFFICER

2/11/2013

DATE 719-495-3621

TELEPHONE



Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS:

Alamo Lake High Water Boat Ramp & Parking Lot & Cholla Boat Ramp

Alamo Lake State Park

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W Jackson Street, MD EM02

AZ	S000018-2008		MP3				
PER	MIT NUMBER		MONITORING	POINT ID	MONTH	FebruaryYEA	R 2013
PARAMETERS TURBIDITY					Streamflow	T	
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Da=: al		Monks	
Daniei	к	IVIORIXS	

NAME OF PRINCIPAL EXECUTIVE OFFICER

Manager

TITLE OF PRINCIPAL EXECUTIVE OFFICER

TIVE OFFICER

2/11/2013

719-495-3621

TELEPHONE

Attachment E ADOT Discharge Monitoring Report for Analytical Monitoring



ARIZONA DEPARTMENT OF TRANSPORTATION

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

|X NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: SR-90 San Pedro River Bridge

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services Water Quality Group 1611 W. Jackson Street, MD EM02 Phoenix, AZ 85007

AZS000018-2008 1 1 1 2 0 1 2
PERMIT NUMBER MONITORING POINT ID MONTH YEAR

PARAMETERS		TURBIDITY		Streamflow		
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John J Baker, CPESC ECC

MAJE OF PRINCIPAL EXECUTIVE OFFICER

Regional Environmental Manager

TITLE OF ROCIFIC EXECUTIVE OFFICER

SONALURA OF PRINCIPAL EXECUTIVE OFFICER



ARIZONA DEPARTMENT OF TRANSPORTATION Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: SR-90 San Pedro River Bridge

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services Water Quality Group 1611 W. Jackson Street, MD EM02 Phoenix, AZ 85007

AZS000018-2008 0 PERMIT NUMBER MONITORING POINT ID MONTH TURBIDITY PARAMETERS Streamflow Field Calc.* Field (Field, Lab, Calculation*) UNITS ft³/sec kg/day Min TMDL PERMIT Mean Info LIMITS Max. Only 4 5 8 11 12 MONTH 13 14 15 THE 16 17 OF 18 DAY 19 20 22 23 24 25 26 27 28 29 30 31 Monthly Mean Highest Value Lowest Value Number of Exceedances * TMDL Loading Calculations in kg/day: mg/L x Streamflow x 2.4465 :g/L x Streamflow x 0.0024465

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John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OFFICER
Regional Environmental Manager
MATA OF PRINCIPAL EXECUTIVE OFFICER

11/30/12 DATE (602) 370-6387

IRK OF PRINCIPAL EXECUTIVE OFFICER

Attachment E ADOT Discharge Monitoring Report for Analytical Monitoring



ARIZONA DEPARTMENT OF TRANSPORTATION Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: SR-90 San Pedro River Bridge

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to: AD0

ADOT Office of Environmental Services Water Quality Group 1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

AZS000018-2008 0. PERMIT NUMBER MONITORING POINT ID MONTH TURBIDITY **PARAMETERS** Streamflow ANALYSIS TYPE Calc.* Field Field (Field, Lab, Calculation*) NTUs ft³/sec UNITS kg/day Min. TMDL PERMIT Mean Info LIMITS Max Only 6 8 10 11 MONTH 13 14 15 THE 16 17 OF 18 DAY 19 20 21 22 23 25 26 27 28 29 30 31 Monthly Mean Highest Value Lowest Value Number of Exceedances * TMDL Loading Calculations in kg/day: mg/L x Streamflow x 2.4465 :g/L x Streamflow x 0.0024465

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John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OFFICER

Regional Environmental Manager

OF PRESCRIPTION OFFICER

12/31/12

(602) 370-6387

OF PRINCIPAL EXECUTIVE OFFICER

Attachment E ADOT Discharge Monitoring Report for Analytical Monitoring



ARIZONA DEPARTMENT OF TRANSPORTATION

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

X NO DISCHARGE THIS MONTH

21

PROJECT NAME AND ADDRESS: SR-90 San Pedro River Bridge

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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PERMIT NUMBER				MONITORI	NG POINT ID	MONTH	MONTH YEAR		
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PARAMETERS TURBIDITY					Streamflow	-			
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John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OFFICER
Regional Environmental Manager

TURE OF PRINCIPAL EXECUTIVE OFFICER

12/31/12

(602) 370-6387

TELEPHONE

Appendix D Page 11 of 11
STORMWATER MONITORING GUIDANCE MANUAL for Construction Activities



IX NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: SR-90 San Pedro River Bridge

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

	S000018-2008		1	0 1	2 0	1 3
PER	MIT NUMBER	3	MONITORING POINT ID	MONTH	YEA	R
PARAMETE	RS	TURBIDITY			Streamflow	
ANALYSIS (Field, Lab. C		Field			Field	Calc.
UNITS		NTUs			ft ³ /sec	kg/da
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I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible forgathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OFFICER
Regional Environmental Manager

E OF PRINCIPAL EXECUTIVE OFFICER

1/31/13 (602) 370-6387

TELEPHONE

SIGNATURNOF PRINCIPAL EXECUTIVE OFFICER



NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: SR-90 San Pedro River Bridge

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

	AZS000018-2008		2	0 1	2 0	1 3
	PERMIT NUMBER		MONITORING POINT ID	MONTH	YEA	R
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PARA	AMETERS	TURBIDITY			Streamflow	I
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	l, Lab, Calculation*)	Field			Field	Calc.
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John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OFFICER

Regional Environmental Manager

SONATURE OF PRINCIPAL EXECUTIVE OFFICER

1/31/13 DATE

(602) 370-6387 TELEPHONE

Appendix D Page 1 of

STORMWATER MONITORING GUIDANCE MANUAL for Construction Activities
ARIZONA DEPARTMENT OF TRANSPORTATION September 2009



ARIZONA DEPARTMENT OF TRANSPORTATION Monthly Discharge Monitoring Report (DMR) Form

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: SR-90 San Pedro River Bridge

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

AZ:	S000018-2008		1	0 2	2 0	1 3
PERI	MIT NUMBER	3	MONITORING POINT ID	MONTH	YEA	R
PARAMETE		TURBIDITY			Streamflow	
ANALYSIS (Field, Lab, C		Field			Field	Calc.
UNITS		NTUs			ft³/sec	kg/da
PERMIT	Min.					TMD
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John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OFFICER
Regional Environmental Manager
TO STATE OF PRINCIPAL DESCRIPTION OFFICER

VIE OF PRINCIPAL EXECUTIVE OFFICER

2/28/13

(602) 370-6387

TELEPHONE



ARIZONA DEPARTMENT OF TRANSPORTATION Monthly Discharge Monitoring Report (DMR) Form

for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: SR-90 San Pedro River Bridge

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

A	ZS000018-2008	N 50 H	2	0 2	2 0	1 3
PE	RMIT NUMBER	3	MONITORING POINT ID	MONTH	YEA	R
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	Monthly Mean					
	Highest Value					
	Lowest Value					
Number o	of Exceedances		g/day: mg/L x Streamflow x 2.446			

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible forgathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OFFICER
Regional Environmental Manager

PILE OF PRINCIPAL EXECUTIVE OFFICER

2/28/13 PATE (602) 370,638

(602) 370-6387 TELEPHONE

THE OF PRINCIPAL EXECUTIVE OFFICER



Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE X THIS MONTH

PROJECT NAME AND ADDRESS: SR-90 San Pedro River Bridge

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services Water Quality Group 1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

AZS	3000018-2008		1		0 3	2 0	1 3
PERN	IIT NUMBER	3	MONITORING	POINT ID	MONTH	YEA	
	A 1						
PARAMETER	RS	TURBIDITY				Streamflow	1
ANALYSIS T (Field, Lab, C	TYPE:	Field				Field	Calc.
UNITS		NTUs				ft ³ /sec	kg/da
	Min.						TMD
PERMIT LIMITS	Mean						Info
LIMITS	Max.						Only
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	owest Value						
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		ng Calculations in k	g/day: mg/L x Stre	amflow x 2 4465	-g/L v Streamflox	v v 0 0024465	

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible forgathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OFFICER

Regional Environmental Manager

OF RINCIPAL EXECUTIVE OFFICER

RE OF PRINCIPAL EXECUTIVE OFFICER

3/31/13

(602) 370-6387 TELEPHONE

Appendix D Page N \bf\ 11

STORMWATER MONITORING GUIDANCE MANNAL for Construction Activities ARIZONA DEPARTMENT OF TRANSPORTATION September 2009



ARIZONA DEPARTMENT OF TRANSPORTATION Monthly Discharge Monitoring Report (DMR) Form

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008 IX NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: SR-90 San Pedro River Bridge

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to

ADOT Office of Environmental Services Water Quality Group 1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

	S000018-2008		2	0 3	2 0	1 3
PER	MIT NUMBER		MONITORING POINT ID	MONTH	YEA	R
PARAMETE	RS	TURBIDITY			Streamflow	
ANALYSIS (Field, Lab. C		Field			Field	Calc.
UNITS		NTUs			ft ³ /sec	kg/da
PERMIT	Min.					TMD
LIMITS	Mean					Info
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M	onthly Mean					
H	ighest Value					
	owest Value Exceedances					
		61.14	kg/day: mg/L x Streamflow x 2.440	55 :g/L x Streamflow		

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible forgathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OFFICER

Regional Environmental Manager

Regional Environmental Manager

3/31/13 DATE (602) 370-6387 TELEPHONE

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER



NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: SR-90 San Pedro River Bridge

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

ADOT Office of Environmental Services

Water Quality Group 1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

AZS	000018-2008			1		0 4	2 0	1 13
PERN	AIT NUMBER	ξ.	MONIT	ORING POINT	ID	MONTH	YEA	R
PARAMETE		TURBIDITY					Streamflow	T
ANALYSIS T (Field, Lab. C		Field					Field	Calc.
UNITS		NTUs					ft ³ /sec	kg/da
PERMIT	Min.							TMD
LIMITS	Mean							Info
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Number of E								
		ng Calculations in k	g/day: mg/	L x Streamflow	x 2.4465 :0	L x Streamflov	v x 0.0024465	

I certify under penalty of law, that this document and all attachments were prepared I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible forgathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OFFICER

Regional Environmental Manager

4/30/13 (602) 370-6387 TELEPHONE

OF PRINCIPAL EXECUTIVE OFFICER



NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: SR-90 San Pedro River Bridge

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

AZ	S000018-2008		2	0	4 2	0 1	3
PER	MIT NUMBER	3	MONITORING POINT ID	MON	TH	YEAR	
PARAMETI	ERS	TURBIDITY			Stream	nflow	
ANALYSIS (Field, Lab,	TYPE:	Field			Fie		Calc.
UNITS		NTUs			ft ³ /	sec k	cg/da
DYDDA CET	Min.						IMD.
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	Ionthly Mean						
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	Lowest Value						
Number of	* TMDL Loadi						

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible forgathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OFFICER

Regional Environmental Manager

RINCIPAL EXECUTIVE OFFICER

4/30/13 (602) 370-6387 TELEPHONE



Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: SR-90 San Pedro River Bridge

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

ADOT Office of Environmental Services Water Quality Group 1611 W. Jackson Street, MD EM02 Phoenix, AZ 85007

AZS000018-2008 0 5 PERMIT NUMBER MONITORING POINT ID MONTH

	RAMETERS	TURBIDITY	Streamflow	
	ALYSIS TYPE: eld, Lab, Calculation*)	Field		alc.
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201	26			
B	27			
0.00	28			
	29			
	30			
391	31			
	Monthly Mean			
	Highest Value			
	Lowest Value			
N	umber of Exceedances			

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible forgathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

John J Baker, CPESC ECC NAME OF PRINCIPAL EXECUTIVE OFFICER

Regional Environmental Manager

OPRINCIPAL EXECUTIVE OFFICER

5/31/13 (602) 370-6387 TELEPHONE

TRE OF PRINCIPAL EXECUTIVE OFFICER



X NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: SR-90 San Pedro River Bridge

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services Water Quality Group 1611 W. Jackson Street, MD EM02 Phoenix, AZ 85007

	AZS000018-2008		2	0 5	2 0	1 3
	PERMIT NUMBER	3	MONITORING POINT ID	MONTH	YEA	R
PAR	AMETERS	TURBIDITY			Streamflow	
ANA (Field	LYSIS TYPE: d, Lab, Calculation*)	Field			Field	Calc.
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	Monthly Mean					
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N.L.	Lowest Value			1		
Nui	mber of Exceedances	2001	g/day: mg/L x Streamflow x 2.4465	:g/L x Streamflow		

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible forgathering information, the information submitted is to the best of my knowledge and belief, rue, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

John J Baker, CPESC ECC

Regional Environmental Manager

5/31/13 DATE (602) 370-6387

TURE OF PRINCIPAL EXECUTIVE OFFICER

Appendix D Page 1 h 11



NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: SR-90 San Pedro River Bridge

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to-

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

	ZS000018-2008		1		0 6	2 0	1 3
PE	RMIT NUMBER	3	MONITORING	POINT ID	MONTH	YEA	R
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PARAMET	TERS	TURBIDITY				Streamflow	
ANALYSI		Field				Field	Calc.
UNITS		NTUs				ft ³ /sec	kg/da
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218	31						
	Monthly Mean						
	Highest Value						
	Lowest Value						
Number o	f Exceedances		g/day: mg/L x Str				

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible forgathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

John J Baker, CPESC ECC NAME OF PRINCIPAL EXECUTIVE OFFICER

NAME OF PRINCIPAL EXECUTIVE OFFICER
Regional Environmental Manager

PRINCIPAL EXECUTIVE OFFICER

URE OF PRINCIPAL EXECUTIVE OFFICER

6/30/13 (602) 370-6387

TELEPHONE

Appendix D Page 1 of 11



NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: SR-90 San Pedro River Bridge

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible forgathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OFFICER Regional Environmental Manager

(602) 370-6387

TELEPHONE

6/30/13

RE OF PRINCIPAL EXECUTIVE OFFICER



Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

·V	NO DISCHARGE
ıΧ	THIS MONTH

PROJECT 1	NAME AND	ADDRESS:	
SR 260	Doubtful	Canvon	Section

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

ADOT Office of Environmental Services Mail to:

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

	AZS	000018-2008			1 1	2 0	1 2
		IIT NUMBER		MONITORING POINT ID	MONTH	YEA	
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PА	RAMETE	RS	TURBIDITY			Streamflow	<u> </u>
AN	IALYSIS 1	ГҮРЕ:	Field			Field	Calc.*
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I certify under penalty of law, that this document and all attachments were prepared I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible forgathering information, the information submitted is, to the best of my knowledge and helief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

John J Baker, CPESC ECC NAME OF PRINCIPAL EXECUTIVE OFFICER
REGIONAL Environmental Manager
THILLOWER PRINCIPAL EXECUTIVE OFFICER EXECUTIVE OFFICER

11/30/12 (602) 370-6387 TELEPHONE

NORTH EXECUTIVE OFFICER



Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

ιX	NO DISCHARGE
ΙΛ	THIS MONTH

PROJECT NAME AND ADDRESS:	
SR 260 Doubtful Canvon	Section

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

AZS000018-2008	ay DL o
PARAMETERS TURBIDITY Streamflow	ay DL o
ANALYSIS TYPE: (Field, Lab, Calculation*) Field Calculation*)	ay DL o
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Monthly Mean Highest Value	
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Number of Exceedances	
* TMDL Loading Calculations in kg/day: mg/L x Streamflow x 2.4465 :g/L x Streamflow x 0.0024465	

I certify under penalty of law, that this document and all attachments were prepared I certify under pendity of tast, that his document and an attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel property gathered and evaluated the information submitted. Based on my implify of the person or persons who manage the system, or those persons directly responsible forgathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OFFICER

Regional Environmental Manager

COPPRINCIPAL EXECUTIVE OFFICER

11/30/12 (602) 370-6387 TELEPHONE

RE OF PRINCIPAL EXECUTIVE OFFICER



Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS:	
SR 260 Doubtful Canyon !	Section

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

	AZS000018-2008		3		1 1	2 0	1 2
PERMIT NUMBER		MONITORING POINT II	<u> </u>	MONTH	YEA		
PARAME	TERS	TURBIDITY				Streamflow	
ANALYS (Field, La	IS TYPE: b, Calculation*)	Field				Field	Calc.*
UNITS		NTUs				ft³/sec	kg/day
PERMIT	Min.						TMDL
LIMITS	Mean						Info
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	Highest Value						
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I certify under penalty of law, that this document and all attachments were prepared recently under penalty of this, that has accument and an interiments were prepared under my direction or supervision in accordance with a system designed to assure that qualified persannel properly gathered and evaluated the information submitted. Based on my inquiry of the persan or persons who manage the system, or those persons directly responsible forgathering information, the information submitted is, to the best of my knowledge and helief, true, accurate, and complete. I am aware that the constitution of the constitution of the constitution of the constitution to the constitution to the constitution of the constitution to the constitution to the constitution to the constitution to the constitution to the constitution to the constitution of the constitution to the constitution to the constitution to the constitution to the constitution to the constitution to the constitution to the constitution to the constitution to the constitution to the constitution to the constitution to the constitution to the constitution to the constitution to the constitution to the constitution to the constitution to the constitution to the constitution to the constitution to the constitution to the constitution to the constitution to the constitution to the constitution to the constitution to the constitution to the constitution to the constitution to the constitution to the constitution to the constitution to the constitution to the constitution to the constitution to the constitution to the constitution to the constitution to the constitution to the constitution to the constitution to the constitution to the constitution to the constitution to the constitution to the constitution to the constitution to the constitution to the constitution to the constitution to the constitution to the constitution to the constitution to the constitution to the constitution to the constitution to the constitution to the constitution to the constitution to the constitution to the constitution to the constitution to the constitution to the consti there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OFFICER

Regional Environmental Manager

OF PRINCIPAL EXECUTIVE OFFICER

11/30/12 (602) 370-6387

TELEPHONE

ADOT Discharge Monitoring Report for Analytical Monitoring



ARIZONA DEPARTMENT OF TRANSPORTATION

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE THIS MONTH

PROJE	CT N	AME AND A	ADDRESS:	
SR 2	260 E	Doubtful	Canvon	Section

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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I certify under penalty of law, that this document and all attachments were prepared tecrety; under petuing of tast, that has anomen and an anacoments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquity of the person or persons who unuage the system, or though persons directly responsible forgathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that the second of the persons directly responsible for a contract, and complete. there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OFFICER

Regional Environmental Manager

PRINCIPAL EXECUTIVE OFFICER

PRINCIPAL EXECUTIVE OFFICER

11/30/12

(602) 370-6387 TELEPHONE



Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

IX NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: SR 260 Doubtful Canyon Section	

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to: ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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	PERM	IT NUMBER		MONITO	ORING POINT	ĬĎ.	MONTH	YEA	AR
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John J Baker, CPESC ECC
NAME OF PRINCIPAL EXECUTIVE OFFICER
Regional Environmental Manager
VILE OFFICER

TURE OF PRINCIPAL EXECUTIVE OFFICER

11/30/12 DATE (602) 370-6387 TELEPHONE

ADOT Discharge Monitoring Report for Analytical Monitoring



ARIZONA DEPARTMENT OF TRANSPORTATION

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE THIS MONTH

PROJECT 1	NAME AND	ADDRESS:	
SR 260	Doubtful	Canyon	Section

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

AZS000018-2008		<u>Q</u>			1	2	<u> </u>	<u>1</u> _	12			
	PERM	IT NUMBER	UMBER MONITORING POINT ID MONTH		YEA	\R						
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John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OFFICER

Regional Environmental Manager

PRINCIPAL EXECUTIVE OFFICER

PUNCHAL EXECUTIVE OFFICER

11/30/12 (602) 370-6387

TELEPHONE

ADOT Discharge Monitoring Report for Analytical Monitoring



ARIZONA DEPARTMENT OF TRANSPORTATION

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE THIS MONTH

PROJECT I	NAME AND ADDRESS	:
SR 260	Doubtful Canyon	Section

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

DEDICITATION ACCOUNT ACCOUNT OF A CONTROL	
PERMIT NUMBER MONITORING POINT ID MONTH	YEAR
PARAMETERS TURBIDITY Streamf	low
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Number of Exceedances	
* TMDL Loading Calculations in kg/day: mg/L x Streamflow x 2.4465 :g/L x Streamflow x 0.00244	165

I certify under penalty of law, that this document and all attachments were prepared I certify under penalty of law, that this document and all utachments were prepared under my direction or supervision in occordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquity of the person or persons who manage the system, or those persons directly responsible forgathering information, the information submitted is, to the best of my knowledge and belief, true, occurate, and complete. I am wave that there are significant penalties for submitting false information, including the possibility of flue and imprisonment for knowing violations.

John J Baker, CPESC ECC NAME OF PRINCIPAL EXECUTIVE OFFICER Regional Environmental Manager

11/30/12 (602) 370-6387 TELEPHONE

AL EXECUTIVE OFFICER SIGN

1171

ADOT Discharge Monitoring Report for Analytical Monitoring



ARIZONA DEPARTMENT OF TRANSPORTATION

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

ıΧ	NO DISCHARGE
ĺΨ	THIS MONTH

PROJECT 1	NAME AND.	ADDRESS:	
SR 260	Doubtful	Canyon	Section

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to: ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OFFICER

Regional Environmental Manager

Regiona Environmental Manager

11/30/12 DATE (602) 370-6387

GNATURE OF TRINCH ALL TRECUTIVE OFFICER

ADOT Discharge Monitoring Report for Analytical Monitoring



ARIZONA DEPARTMENT OF TRANSPORTATION

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS:	
SR 260 Doubtful Canvon	Section

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to: ADOT Office of Environmental Services Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

PHOCHIX, AZ 65007

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PERMI	T NUMBER		MONITORING POINT ID		MONTH	YEA	AR	
PARAMETERS		TURBIDITY					Streamflow	
ANALYSIS TY (Field, Lab, Cal		Field					Field	Calc.*
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I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible forgathering information, the information submitted is, to the best of size howledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting lake information, including the possibility of fine and imprisonment for knowing violations.

John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OFFICER

Regional Environmental Manager

TITALE OF PRINCIPAL EXPORTIVE OFFICER

URE OF PRINCIPAL EXECUTIVE OFFICER

12/31/12

(602) 370-6387

TELEPHONE



Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE THIS MONTH

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COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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I certify under penalty of law, that this document and all uttachments were prepared I certify under penalty of law, that this document and all utaciments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who monage the system, or those persons directly responsible forgathering information, the information submitted is, to the best of my hamicage and belief, trie, accurate, and complete. I am ware that there are significant penalties for submitting false information, including the passibility of fine and imprisonment for knowing violations.

John J Baker, CPESC ECC NAME OF PRINCIPAL EXECUTIVE OFFICER Regional Environmental Manager PRINCIPAL EXECUTIVE OFFICER

12/31/12 DATE (602) 370-6387 TELEPHONE

RE OF PRINCIPAL EXECUTIVE OFFICER

ADOT Discharge Monitoring Report for Analytical Monitoring



ARIZONA DEPARTMENT OF TRANSPORTATION

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

IX NO DISCHARGE THIS MONTH

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PROJECT 1	NAME AND	ADDRESS:	
SR 260	Doubtful	Canyon	Section

AZS000018-2008

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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Regional Environmental Manager

TITLE OF PRINT PALIENT OFFICER

INCHAE EXECUTIVE OFFICER

12/31/12

(602) 370-6387

TELEPHONE

Appendix D Page 11\of

STORMWATER MONITORING GUIDANCE MANUAL for Construction Activities
ARIZONA DEPARTMENT OF TRANSPORTATION September 2009

SIGNATI

ADOT Discharge Monitoring Report for Analytical Monitoring



ARIZONA DEPARTMENT OF TRANSPORTATION

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Regional Environmental Manager

OF PRIVITE EXECUTIVE OFFICER

12/31/12 DATE (602) 370-6387

OF PRINCIPAL EXECUTIVE OFFICER



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THE PRINCIPAL EXECUTIVE OFFICER

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER

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ARIZONA DEPARTMENT OF TRANSPORTATION

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I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquity of the person or persons who manage the system, or those persons directly responsible forgathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am owner that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OFFICER

Paginnal Equipmental Manage

Regional Environmental Manager

12/31/12 DATE (602) 370-6387 TELEPHONE

PRINCIPAL EXECUTIVE OFFICER

ADOT Discharge Monitoring Report for Analytical Monitoring



ARIZONA DEPARTMENT OF TRANSPORTATION Monthly Discharge Monitoring Report (DMR) Form

for the ADOT Statewide Permit #AZS000018-2008

X NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: SR 260 Doubtful Canyon Section

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to: ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

AZS000018-2008 7 1 2 2	0	1 2
PERMIT NUMBER MONITORING POINT ID MONTH	YEA	R
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Number of Exceedances		1
* TMDL Loading Calculations in kg/day: mg/L x Streamflow x 2.4465 :g/L x Streamflow x 0.000	24465	

I certify under penuity of low, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquity of the person or persons who manage the system or those persons directly responsible forgathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting folse information, including the passibility of fine and imprisonment for knowing violations.

John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OFFICER

Regional Environmental Manager

TIME OF PROCEINAL EXECUTIVE OFFICER

12/31/12 (602) 370-6387

TÉLEPHONE

SIGNAPOR PRINCIPAL EXECUTIVE OFFICER



Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

IX NO DISCHARGE THIS MONTH

PROJECT 1	NAME AND	ADDRESS:	
SR 260	Doubtful	Canvon	Section

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to: ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Bused on my inquity of the person or persons who manage the system, or those persons directly responsible forgathering information, the information submitted is, to the bea of my knowledge and belief, true, accurate, and complete. I am oware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OFFICER

12/31/12

Regional Environmental Manager

(602) 370-6387

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER

Attachment E ADOT Discharge Monitoring Report for Analytical Monitoring



ARIZONA DEPARTMENT OF TRANSPORTATION Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

H NO DISCHARGE THIS MONTH

PROJECT NAME AND	ADDRESS:	
SR 260 Doubtful	Canvon	Section

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to: Al

ADOT Office of Environmental Services Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed so assure that qualified personnel property gathered and evaluated the information submitted. Based on my inquity of the person or persons who menage the system, or those persons directly responsible forgethering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

John J Baker, CPESC ECC	1/31/13
NAME OF PAINCIPAL EXECUTIVE OFFICER RAGIONAL Environmental Manager	(602) 370-6387
TALL OF PRINCIPAL EXECUTIVE OFFICER	TELEPHONE
SIGNATURE OF PROVCIPAL EXECUTIVE OFFICER	



) NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: SR 260 Doubtful Canyon Section	

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to: ADOT Office of Environmental Services

Water Quality Group 1611 W. Jackson Street, MD EM02

TOTA W. Jackson Sireet, MD BW

Phoenix, AZ 85007

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I certify under penalty of law, that this document and all ottachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel property gathered and evaluated the information submitted. Based on my inquity of the person or persons who manage the system, or this persons directly responsible forgatharing information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting fathe information, including the possibility of fine and imprisonment for knowing violations.

John J Baker, CPESC ECC 1/31/13

PARTIE OF PRINCIPAL EXECUTIVE OFFICER
Regional Environmental Manager (602) 370-6387

TELEPHONE

SKANTONE OF PROPERTY EXECUTIVE OFFICER



NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS:	
SR 260 Doubtful Canyon Sec	ction

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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I certify under penalty of law, that this document and all attachments were prepared I certify water penalty of tow, that this document and all anothments were prepared under my direction or supervision in occordance with a system designed to assure that qualified personnel property gathered and availated the information submitted. Based on my inquiry of the person or persons who manage the system, or diose persons directly responsible forgathering information, the information submitted to, to the best of my knowledge and belief, true, accurate, and complete. I om aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OFFICER
ROWLING ENVIRONMENTAL MANAGET
TITLE WALL NOW ALEXECUTIVE OFFICER

1/31/13 (602) 370-6387 TELEPHONE

OF PRINCIPAL EXECUTIVE OFFICER



NO DISCHARGE
THIS MONTH

PROJECT NAME AND ADDRESS:
SR 260 Doubtful Canyon Section
•

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

AZ\$000018-2008			4	0 1	2 0	1 3
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I certify under penalty of law, that this document and all anachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel property gathered and evaluated the information submitted. Based on my Inquity of the person or persons who memage the system, or those persons directly responsible forgothering information, the information submitted to, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting fairs information, including the possibility of fine and inquisonment for knowing violations.

John J Baker, CPESC ECC
NAME OF PRINCIPAL EXECUTIVE OFFICER
RECIPITATION OF THE PRINCIPAL EXECUTIVE OFFICER
TO A STATE OF THE PRINCIPAL EXECUTIVE OFFICER

1/31/13 Date (602) 370-6387

SKNATURE OF PADICIPAL EXECUTIVE OFFICER



NO DISCHARGE
THIS MONTH

PROJECT ?	VAME AND	ADDRESS:	
SR 260	Doubtful	Салуол	Section

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

AZS000018-2008		5		0 1 2 0 1 3		
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I certify under penalty of law, that this document and all ottachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnal property gathered and evaluated the information submitted. Based on my linguity of the person or persons who matage the system, or those persons directly responsible forgathering information, the information submitted is, to the best of my knowledge and brief, two, accurate, and complete. I am aware that there are significant penalties for submitting the information, including the possibility of fine and imprisonment for knowing violations.

John J Baker, CPESC ECC
NAME OF PRINCIPAL EXECUTIVE OF FIXER
Regional Environmental Manager
TITLE STRONGIPAL EXECUTIVE OF FIXER

1/31/13 DATE (602) 370-6387

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER



Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE THIS MONTH

PROJECT I	MAME AND	ADDRESS:	
SR 260	Doubtful	Canyon	Section

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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* TMDL Loading Calculations in kg/day: mg/L x Streamflow x 2.4465 :g/L x Streamflow x 0.0024465	

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified parsannel property gathered and architect the information submitted that higher than the person or persons who manage the system, or those persons directly responsible forgethering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting fathe information, including the possibility of face and tappisonment for knowing violations.

John J Baker, CPESC ECC NAME OF PRINCIPAL EXECUTIVE OF FICEA Regional Environmental Manager

1/31/13 (602) 370-6387 TELEPHONE

RE OF PAINCIPAL EXECUTIVE OFFICER



NO DISCHARGE THIS MONTH

PROJECT	NAME AND	ADDRESS:	
SR 260	Doubtful	Canvon	Section

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

ADOT Office of Environmental Services

Water Quality Group 1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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PERMIT NUMBER		MONTH				YEAR		
PARAMETERS T		TURBIDITY				1	Streamflow	I
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I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in occordones with a system designed to assure that qualified personnel property gethered and evaluated the information submitted. Based on my laysity of the person or persons who menage the system, or the persons directly responsible forgathering information, the information submitted it, to that the style persons directly responsible forgathering information, the information submitted it, to that the style person of the style person of the style information, including the passibility of fine and imprisonment for knowing violations.

John J Baker, CPESC ECC NAME OF PRINCIPAL EXECUTIVE OFFICEA
REPLOT AN ENVIRONMENTAL Manager
TITLE FOR AN CIPAL EXECUTIVE OFFICER

1/31/13 (602) 370-6387 TELEPHONE

RE OF PRINCIPAL EXECUTIVE OFFICER



NO DISCHARGE
THIS MONTH

PROJECT NAME AND ADDRESS: SR 260 Doubtful Canyon Section

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to: ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed so ussure that qualified personnel property gatheted and evaluated the information submitted. Based on my inquity of the person or persons the manage the typicm, or those persons directly responsible forgothering information, the information submitted to, to the best of my knowledge and belief, true, occurret, and complete. I am aware that there are simplifient penalties for submitting false information, including the possibility of fine and imprisenment far knowing violations.

John J Baker, CPESC ECC 1/31/13

Shale of principal executive officer (602) 370-6387

TITLACK PONCIPAL EXECUTIVE OFFICER TELEPHONE



IX NO DISCHARGE
THIS MONTH

PROJE	CT N	AME AND	ADDRESS:	
SR 2	260	Doubtful	Canyon	Section

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

dail to: ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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I certify under prucity of law, that this document and all enachments were prepared under my direction or supervision to accordance with a system designed to assure that qualified personnel property gathered and evaluated the information submitted. Based on ay inquiry of the person or persons who manage the system, or the persons directly responsible for pethering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge violations.

John J Baker, CPESC ECC
NAME OF PRINCIPAL EXECUTIVE OFFICER
REGIONAL ENGINEERS (MATABASET
TITLE OF MINOPAL EXECUTIVE OFFICER

2/28/13 DATE (602) 370-6387 TELEPHONE

SKINATURA OF PRESCRIPTIVE OFFICER



NO DISCHARGE THIS MONTH

PROJECT I	NAME AND	ADDRESS:	
SR 260	Doubtful	Canvon	Section

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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I carely under penalty of law, that this document and all attachments were prepared I coully under penalty of low, that his document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel property gethered and evaluated the laformation submitted. Based on my inquity of the person or persons who manage the system, or those persons directly exponentially for information submitted is, to the best of my knowledge and belief, was accurate, and complete. I am owner that there are algorithms analises for submitting false information, including the possibility of fine and imprisonment for knowing violations.

John J Baker, CPESC ECC NAME OF PRINCIPAL EXECUTIVE OFFICER Regional Environmental Manager TITLE OF TROJETTAL EXECUTIVE OFFICE

2/28/13 (602) 370-6387 TELEPHONE

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER



3

NO DISCHARGE THIS MONTH

2 0 1

PROJECT I	NAME AND	ADDRESS	
SR 260	Doubtful	Canyon	Section

AZ\$000018-2008

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

0 2

Mail to: ADOT

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

PERMIT NUMBER			MONIT	ORING POIN	T LD	MONTH	YEA	R
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I carify under penalty of lan, that this document and all attachments were prepared under any direction or supervision in accordance with a system designed to essure that qualified personnel property gathered and evaluated the information submitted. Based on any inquity of the person or persons who manage the system, or those persons directly expansible forgethering information, the information submitted it, to the best of my knowledge and belief, true, accurate, and complete. I am ewere that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

John J Baker, CPESC ECC NAME OF PAINGUPAL EXECUTIVE OFFICER REGIODAT ENVIRONMENTAL MANAGER TITLEGY PROSPIPAL EXECUTIVE OFFICER 2/28/13 DATE (602) 370-6387

SIGNAL OF PARCEPAL EXECUTIVE OFFICES

ADOT Discharge Monitoring Report for Analytical Monitoring



ARIZONA DEPARTMENT OF TRANSPORTATION Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: SR 260 Doubtful Canyon Section	

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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i certify under pensity of law, that this document and oil ottechments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted fasced on my inquity of the persons no persons show manget the system, or those persons directly responsible forgathering information, the information submitted is, to the best of my knowledge and belief, one, accurate, and complete. I am aware that there are significant permitted for the information, furthering the possibility of fine and impripanment for knowing violations.

John J Baker, CPESC ECC NAME OF PRINCIPAL EXECUTIVE OFFICER Regional Environmental Manager E OF PRINCIPAL EXECUTIVE OFFICER

2/28/13 (602) 370-6387 TELEPHONE

OF PRINCIPAL EXECUTIVE OFFICER



X NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: SR 260 Doubtful Canyon Section

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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John J Baker, CPESC ECC
NAME OF PRINCIPAL EXECUTIVE OFFICIA
Regional Environmental Manager
Muse of Prescripal executive offices

2/28/13 DATE (602) 370-6387

SON TURE OF PRINCIPAL EXECUTIVE OFFICER



NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: SR 260 Doubtful Canyon Section	

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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John J Baker, CPESC ECC Regional Engironmental Manager

ATURE OF PAINCIPAL EXECUTIVE OFFICER

2/28/13 (602) 370-6387 TELEPHONE



NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: SR 260 Doubtful Canyon Section	

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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John J Baker, CPESC ECC NAME OF PRINCIPAL EXECUTIVE OFFICER Regional Environmental Manager

THE OF PRINCIPAL EXECUTIVE OFFICES

2/28/13 (602) 370-6387 TELEPHONE



X NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS:	
SR 260 Doubtful Canyon	Section

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to: ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD BM02

Phoenix, AZ 85007

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John J Baker, CPESC ECC	
NAME OF PRINCIPAL EXECUTIVE OFFICER	_
Registra Environmental Manage	!r

2/28/13 DATE (602) 370-6387

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NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS:	
SR 260 Doubtful Canvon	Section

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ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoepix, AZ 85007

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John J Baker, CPESC ECC NAME OF PRINCIPAL EXECUTIVE OFFICER Regional Englanmental Manager

AL OF TANOBAL EXECUTIVE OFFICER

3/31/13 (602) 370-6387 TELEPHONE



NO DISCHARGE THIS MONTH

PROJE	CTN	AME AND	ADDRESS:	
SR 2	260	Doubtful	Canvon	Section

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Mail to: ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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John J Baker, CPESC ECC
NAME OF PRINCIPAL EXECUTIVE OFFICER
Regional Environmental Manager
This of Regy of the Executive of Ficer

3/31/13 DATE (602) 370-6387

CATOM OF PANCUAL EXECUTIVE OFFICER



IX NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: SR 260 Doubtful Canyon Section	

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to: ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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John J Baker, CPESC ECC
NAME OF PAINCIPAL EXECUTIVE OFFICER
REGIONAL Environmental Manager
Title of Paincipal Executive officer

3/31/13 DATE (602) 370-6387 TELEPHONE

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER



NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS:	
SR 260 Doubtful Canyon 5	Section

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to: ADOT Office of Environmental Services

Water Quality Group 1611 W. Jackson Street, MD EM02

Рhоепіх, AZ 85007

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John J Baker, CPESC ECC
NAME OF PRINCIPAL EXECUTIVE OFFICER
Regional Environmental Manager
TITLES REGIONAL EXECUTIVE OFFICER

3/31/13 DATE (602) 370-6387

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER



NO DISCHARGE THIS MONTH

SR 260 Doubtful Canyon Section

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Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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John J Baker, CPESC ECC
NAME OF PRINCIPAL EXECUTIVE OFFICER
Regional Environmental Manager
THE REPORT OF EXECUTIVE OFFICER

3/31/13 DATE (602) 370-6387

GNATURE OF PRINCIPAL EXECUTIVE OF PICER



NO DISCHARGE THIS MONTH

PROJECT N	AME AND	ADDRESS:	
SR 260	Doubtful	Canyon	Section

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to: ADO1

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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John J Baker, CPESC ECC
NAME OF PRINCIPAL EXECUTIVE OF FICER
Regional Environmental Manager
THE REGIONAL EXECUTIVE OF FICER

3/31/13 DATE (602) 370-6387

GENANT PALEXECUTIVE OFFICES

Attachment E

ADOT Discharge Monitoring Report for Analytical Monitoring



ARIZONA DEPARTMENT OF TRANSPORTATION Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE THIS MONTH

2 0 1 3

PROJECT NAME AND ADDRESS: SR 260 Doubtful Canyon Section	

AZS000018-2008

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Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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John J Baker, CPESC ECC

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Regional Environmental Manager

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3/31/13 DATE (602) 370-6387

SOLATINE OF PRINCIPAL EXECUTIVE OFFICER

Attachment E ADOT Discharge Monitoring Report for Analytical Monitoring



ARIZONA DEPARTMENT OF TRANSPORTATION

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE THIS MONTH

PROJ	የ ፕጋՅ	NAME AND	ADDRESS:	
SR	260	Doubtful	Canyon	Section

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OFFICER

Regional Environmental Manager

3/31/13

(602) 370-6387 TELEPHONE

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER



NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: SR 260 Doubtful Canyon Section

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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John J Baker, CPESC ECC Regional Environmental Manager

4/30/13 PATE (602) 370-6387 TELEPHONE

E OF PANCIPAL EXECUTIVE OFFICER



NO DISCHARGE
THIS MONTH

PROJECT N	NAME AND	ADDRESS:	
SR 260	Doubtful	Canvon	Section

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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John J Baker, CPESC ECC
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4/30/13 DATE (602) 370-6387 TELEPHONE

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NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: SR 260 Doubtful Canyon Section

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

ADOT Office of Environmental Services

Water Quality Group 1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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John J Baker, CPESC ECC NAME OF PERIODIAL EXECUTIVE OFFICER
REGIONAL ENVIRONMENTAL MANAGER
TITLE OFFICER
STONATURE OF PRINCIPAL EXECUTIVE OFFICER

4/30/13 (602) 370-6387 TELEPHONE



4

NO DISCHARGE THIS MONTH

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PROJECT NA	ME AND A	ADDRESS:	
SR 260 D	oubtful	Canvon	Section

AZS000018-2008

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ \$5007

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John J Baker, CPESC ECC NAME OF PRINCIPAL EXECUTIVE OFFICER Regional Environmental Manager

TITLE OF PRINCIPAL EXCENSIVE OFFICER

4/30/13 (602) 370-6387 TELEPHONE

SKINATUR PARTICULAL EXECUTIVE OFFICER



NO DISCHARGE

PROJECT N	NAME AND	ADDRESS:	
SR 260	Doubtful	Canyon	Section

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to: ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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John J Baker, CPESC ECC
NAME OF PRINCIPAL EXECUTIVE OFFICER
Regional Environmental Manager
TITLE OF THE CENTRAL EXECUTIVE OF FICER

4/30/13 DATE (602) 370-6387 TELEPHONE

SIGNATURE OF RESCRETATION OFFICER



NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: SR 260 Doubtful Canyon Section

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

ADOT Office of Environmental Services

Water Quality Group 1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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John J Baker, CPESC ECC NAME OF PRINCIPAL EXECUTIVE OF FICER Regional Environmental Manager

4/30/13 (602) 370-6387

URE OF PARCUAL EXECUTIVE OFFICEA



NO DISCHARGE THIS MONTH

PROJECTA	NAME AND	ADDRESS:	
SR 260	Doubtful.	Canvon	Section

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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I certify under penalty of law, that this document and all stachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel property gathered and evaluated the information submitted. Based on an inquiry of the person or persons who manage the system, or that persons directly responsible forgathering information, the information submitted is, to the best of my knowledge and belief, true, accorder, and complete. I am aware that there are significant penalties for submitting foke information, including the possibility of fine and imprisaument for knowing violations.

John J Baker, CPESC ECC NAME OF PRINCIPAL EXECUTIVE OFFICER Regional Environmental Manager

4/30/13 (602) 370-6387

IAINCO'AL EXECUTIVE OFFICER



NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS:	
SR 260 Doubtful Canyon	Section

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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I certify under penalty of fan, that this document and all attachments were prepared under my direction or supervision in necordance with a system designed to assure that qualified personned properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible forgathering information, the information submitted is, to the best of my knowledge and belief, true, necessor, and complete. I am aware that there are significant penalties for submitting faire information, including the possibility of fine and imprisonment for knowing violations.

John J Baker, CPESC ECC NAME OF PRINCIPAL EXECUTIVE OFFICEA Resignal Environmental Manager

4/30/13 (602) 370-6387 TELEPRONE

PADICIPAL EXECUTIVE OFFICEA



NO DISCHARGE
THIS MONTH

PROJECT NAME AND ADDRESS:	
SR 260 Doubtful Canyon	Section

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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I certify under penalty of low, that this decement and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnal property gathered and evaluated the information submitted. Based on any inquiry of the person or persons who meange the system, or those persons directly responsible forgethering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware thus there are significant penalties for submitting faits information, including the possibility of fine and imprisonment for knowley violations.

John J Baker, CPESC ECC
NAME OF PRINCIPAL EXECUTIVE OFFICER
Regional Environmental Manager
TILLE OF PRINCIPAL EXECUTIVE OFFICER

5/31/13 DATE (602) 370-6387

SIGNATURE OF PHINCIPAL EXECUTIVE OFFICER



NO DISCHARGE THIS MONTH

PROJECT 1	NAME AND	ADDRESS:	
SR 260	Doubtful	Canyon	Section

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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I certify under penalty of low, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified pertonnel property gainered and evaluated the information submitted. Based on My length of the person or persons who manage the system, or the person or persons who manage the system, or the person of persons directly responsible forgethering information, the information submitted is, to the best of my introlegic and before two exercise, and complete. I am quare that there are rigalificant penalties for submitting folks information, including the possibility of fine and imprisonment for knowing violations.

John J Baker, CPESC ECC NAME OF PRINCIPAL EXECUTIVE OFFICER Regional Environmental Manager

5/31/13 (602) 370-6387 TELEPHONE

SIGN RAOF TRINCIPAL EXECUTIVE OFFICER



NO DISCHARGE

PROJECT 1	NAME AND ADDRESS	
SR 260	Doubtful Canyor	n Section

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to: ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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I certify under peneity of low, that this document and all attachments were prepared under my direction or apparetision in accordance with a system designed to assure that qualified periosnal property gathered and evaluated the information withinfad. Based on my inquity of the person or persons who manage the system, or those paramet directly responsible forgathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant panalists for submitting false information, including the possibility of fine and imprisonment for knowing violations.

John J Baker, CPESC ECC 5/31/13

PAME OF PAINCEPAL EXECUTIVE OFFICER
REGION SI Environmental Manager (602) 370-6387

TITLE OF PROCEPUL EXECUTIVE OFFICER TELEPHONE

SIGNATURE OF PRESCRIPT EXECUTIVE OF FICER



NO DISCHARGE
THIS MONTH

PROJECT NAME AND	ADDRESS:	
SR 260 Doubtfu	! Canvon	Section

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to: ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system derigned to assure that qualified persuant property gainered and evaluated the information submitted. Based on my inquity of the parson or persons who mempe the system, or those persons directly responsible forgethering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

John J Baker, CPESC ECC 5/31/13

NAME OF PRINCIPAL EXECUTIVE OFFICER

Regional Environmental Manager (602) 370-6387

TIFL OF PRINCIPAL EXECUTIVE OFFICER

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER



NO DISCHARGE THIS MONTH

PROJECT	NAME	AND A	ADDRESS:	
SR 280	Doub	ottul	Canvon	Section

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

ADOT Office of Environmental Services Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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John J Baker, CPESC ECC	5/31/13
NAME OF PAINCIPAL EXECUTIVE OFFICER	DATE
Regional Engironmental Manager	~(602) 3 7 0-6387
TITLE OF PENCIPAVEXECUTIVE OFFICER	TELEPHONE
FIGURE AND COMMENT OF STREET	



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NO DISCHARGE THIS MONTH-

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PROJECT I	NAME AND	ADDRESS:	
SR 260	Doubtful	Canvon	Section

AZ\$000018-2008

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OFFICER
Regional Equiformental Manager
TITLE OF FRINCIPAL EXECUTIVE OFFICER

(602) 370-6387 TELEPHONE

SIGNATURE OF MUNICIPAL EXECUTIVE OFFICER



ARIZONA DEPARTMENT OF TRANSPORTATION

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE THIS MONTR

PROJECT I	NAME AND	ADDRESS:	
SR 260	Doubtful	Canyon	Section

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

ADOT Office of Environmental Services

Water Quality Group 1611 W. Jackson Skeet, MD EM02

Phoenix, AZ 85007

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I certify under penalty of low, that this document and all attachments were prepared under my direction or empercision in accordance with a system designed to assure that qualified personnel properly gathered are evoluted the information submitted. Based on my lequity of the person or persons who menage the system, or the person or persons who menage the system, or the person constitution, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant panelties for submitting faire information, including the possibility of fine and imprisonment for knowing violations.

John J Baker, CPESC ECC NAME OF PRINCIPAL EXECUTIVE OF FICER Regional Environmental Manager

THE OF PRINCIPAL EXECUTIVE OFFICEA

5/31/13 (602) 370-6387 PELEPHONE



NO DISCHARGE
THIS MONTH

SR 260 Doubtful Canyon Section	

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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I certify under penalty of law, that this decoment and all ettechments were prepared under my direction or supervision in accordance with a system designed to assure that qualified persuantel property gathered and evaluated the information submitted. Based on my inquiry of the purson or persons who manage the system, or this person persons directly responsible forgathering information, the information submitted it, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant pseudites for submitting falls information, including the possibility of fine and imprisonment for knowing violations.

John J Baker, CPESC ECC	5/31/13
NAME OF PRINCIPAL EXECUTIVE OFFICER	DATE
Regional Environmental Manager-	(602) 370-6387
	TELEGHONE
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER	



NO DISCHARGE
THIS MONTH

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Mail to: ADOT Water C 1611 W

MPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to: ADOT Office of Environmental Services
Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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I certify under preadin of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified percented property gathered and evaluated the information substitud. Based on any inquity of the person or persons who manage the system, or those persons directly responsible forgathering information, the information substitud is, to the best of my knowledge and belief, true, accurate, and complete. I am armore that there are significant penalities for subsulving fatre information, including the possibility of fine and imprisonment for knowing violations.

John J Baker, CPESC ECC	6/30/13
rume of Principal executive of Ficer Regional Environmental Manager	(602) 370-638
TELL OF MINOSPAL EXECUTIVE CLERKER	TELEPHONE

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICEA



NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: SR 260 Doubtful Canyon Section	

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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I certify under penalty of law, that this document and all attachments were prepared wider my direction or supervision in accordance with a system designed to esture that qualified personnel property gathered and evaluated the information submitted. Based on my inquity of the person or persons who manage the system, or those persons directly responsible forgathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting falls information, including the possibility of fine and imprisonment for knowing violations.

John J Baker, CPESC ECC NAME OF PRINCIPAL EXECUTIVE OFFICER

RECORDAL EDIMINORMENTAL MACHINEST

TITLE OF PRINCIPAL EXECUTIVE OFFICER DILL OF PADACIPAL EXECUTIVE OFFICER

6/30/13 (602) 370-6387 TELEPHONE



X NO DISCHARGE THIS MONTH

PROJECT I	NAME AND	ADDRESS:	
SR 260	Doubtful	Canyon	Section

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to: ADOT

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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I certify under penalty of low, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel property gethered and evaluated the information submitted. Based on my Inquiry of the person to persons who menage the system, or disare parsons directly responsible forgathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting take information, including the possibility of fine and imprisonment for knowing violations.

6/30/13 (602) 370-6387

SIGNATURE OF PAINCIPAL EXECUTIVE OFFICER



NO DISCHARGE

PROJECT NAME AND ADDRESS: SR 260 Doubtful Canyon Section	

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to: ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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I certify under penalty of low, that this document and all attachments were prepared under my direction or supervision to accordance with a system designed to assure that qualified personnel property gathered and evaluated the information submitted. Based on my inquiry of the person of persons who metage the system, or that persons directly responsible forgathering information, the information and animated is, to the best of my knowledge and belief, but, accurate, and complete. I submitted that there are significant penalties for submitting fatts information, including the possibility of fire and imprisonment for knowing violations.

John J Baker, CPESC ECC
NAME OF PERSCHAL EXECUTIVE OFFICER
Regional Environmental Manager
THE OF PERSCHAL EXECUTIVE OFFICER

6/30/13 DATE (602) 370-6387

OF PRIMER AL EXECUTIVE OFFICER



ARIZONA DEPARTMENT OF TRANSPORTATION Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

X NO DISCHARGE THIS MONTH

PROJECT I	NAME AND	ADDRESS:	
SR 260	Doubtful	Canvon	Section

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to: ADOT Office of Environmental Services

Water Quality Group 1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

0 1 3 0 6 AZ8000018-2008 PERMIT NUMBER MONITORING POINT ID MONTH YEAR PARAMETERS TURBIDITY Streamflow ANALYSIS TYPE: Field Field Calc.* (Pield, Lab, Calculation*) NTUs fl'/sec UNITS kg/day Mia. TMDL PERMIT Mcan Info LIMITS Max. Only 2 5 6 7 8 9 10 11 12

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I cartify under penalty of law, that this document and all anachments were prepared under my direction or supervision in occordance with a system designed to essure that qualified personnel property gathered and evaluated the information submitted. Based on my inquiry of the parson or persons who manage the system, or those persons directly responsible forgathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penaltics for submitting files information, including the possibility of fine and imprisonment for knowling violations.

John J Baker, CPESC ECC NAME OF PRINCIPAL EXECUTIVE OFFICER

6/30/13 DATE (602) 370-6387

Regional Environmental Manager



ARIZONA DEPARTMENT OF TRANSPORTATION

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE THIS MONTH

PROJECT 2	NAME AND A	DDRESS:	
SR 260	Doubtful C	Canyon	Section

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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I costly under penalty of law, that this document and all attachments were prepared I certify under penalty of law, that this document and all nuch ments were prepared winder my direction or supervision in accordance with a system designed to assume that qualified pursonnal property gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible forgathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

John J Baker, CPESC ECC NAME OF PRINCIPAL EXECUTIVE OFFICER Regional Environmental Manager

6/30/13 (602) 370-6387 TELEPHONE

ATURE OF PHINCIPAL EXECUTIVE OFFICER



ARIZONA DEPARTMENT OF TRANSPORTATION Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

X NO DISCHARGE THIS MONTH

PROJECTI	NAME AND.	ADDRESS	:
SR 260	Doubtful	Canyon	Section

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to astore that qualified personnel property gathered and evaluated the information submitted Based on my inquity of the person or persons who menage the system, or thouse persons directly responsible forgethering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete I am entare that there are rigilizent penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

John J Baker, CPESC ECC
NAME OF PEINCIPAL EXECUTIVE OF THE R
Regional Environmental Manager
THE OF PAINCIPAL ASSUMPTIVE OF FICER

6/30/13 0ATE (602) 370-6387 TELEPHONE

SIGNATURED PRINCIPAL EXECUTIVE OFFICER



ARIZONA DEPARTMENT OF TRANSPORTATION Monthly Discharge Monitoring Report (DMR) Form

for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE THIS MONTH

PROJECT N	IAME AND	ADDRESS:	
SR 260	Doubtful	Canyon	Section

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

ADOT Office of Environmental Services

Water Quality Group 1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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I certify under penalty of lew, that this document and all attachments were prepared under my direction or repertation in accordance with a system designed to ostruct their qualified personnel property gathered and evaluated the information submitted. Besed on my inquiry of the persons of persons who manage the system, or those persons directly responsible forgathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

John J Baker, CPESC ECC NAME OF PRINCIPAL EXECUTIVE OFFICER Regional Environmental Manager

6/30/13 <u> (602) 37</u>0-6387 TELEPHONE

PRINCIPAL EXECUTIVE OFFICER

260-B(208)T

of Environmental Quality Arizona Department

H820201C

Authorization # AZCON-529084 Project/Site Name: SR 260 Touto Cr. to Colcord Monitoring Period (yr/mo/day): 12/24/12 to 3/11/13 Arizona Department of Environmental Quality Stormwater & General Permits Unit, Mailstop 5415A-1 1110 West Washington Street Phoenix, Arizona 85007

II. Person making the Inspection/Sampling	ampling				. <	Polluta	nts / Par	ameters	Pollutants / Parameters Monitored		.3	
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June 2013

Page 1 of

760-B(208)T

Arizona Department of Environmental Quality

Authorization # AZCON-529084 Project/Site Name: SR 260 Texto Cr. to Colcord Monitoring Period (yr/mo/day): 12/3/12 to 3/11/13

Arizona Department of Environmental Quality Stormwater & General Permits Unit, Mailstop 5415A-1 1110 West Washington Street Phoenix, Arizona 85007

Use this form for reporting analytical and visual monitoring anytime a pollutant is known or suspected to discharge from the construction site (Permit Parts 4, 7 & 8).

II. Person making the Inspection/Sampling	V. Pollutants / F	V. Pollutants / Parameters Monitored
	A. Visual Assessment:	B. Analytical Monitoring:
Address: 2990 C. Northem Ave. Phone Number: 602-329-3399	Sheen Color Foam Solids Odor Other Other (Susp. or Settled) (specify) (specify) (specify)	TSS Turbidity pH Other Other (Units) (Units = (Specify) (Specify)
III. Monitoring Location IV. Sample Date/Time		
1 12/10/13	DISCHARGE -	
2 12/10/12	NO DIXHARGE	
3 12/10/12	DO DISCHARGE	
4 12/10/2	NO DISHAGE	
VI. ATTACHMENTS: Y N IF "YES,"LIST: VII. CERTIFICATION: "I certify under penalty of law that this document and a qualified personnel properly gather and evaluate the increase responsible for gathering the information, I believe the information including the possibility of fine and imprison.	VI. ATTACHMENTS: Y □ N □ IF "YES,"LIST: VII. CERTIFICATION: "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage this system, or those persons directly responsible for gathering the information, I believe the information submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting false	vision in accordance with a system designed to assure that persons who manage this system, or those persons directly aware that there are significant penalties for submitting false
Printed Name: Lave Dalbers Signature: Police Tallers	Title: Superintendent	Phone: 928-537-1133

June 2013

Page 1 of _

Stormwater Construction General Permit AZG2013-001

260-3(208)T

of Environmental Quality

Authorization # AZCON-529084 Project/Site Name: SR 260 Towto Cr. to Colcord Monitoring Period (yr/mo/day): 12/3/2 to 3/11/13 Discharge Monitoring Report (DMR) Form HS20201C

Arizona Department of Environmental Quality
Stormwater & General Permits Unit, Mailstop 5415A-1
1110 West Washington Street Phoenix, Arizona 85007

Use this form for reporting analytical and visual monitoring anytime a pollutant is known or suspected to discharge from the construction site (Permit Parts 4, 7 & 8).

II. Person making the Inspection/Sampling	spection/Sampling					_	V. Pollutants / P.	ants / Pai	rameters	arameters Monitored			
1, 1	SC			A. Visu	A. Visual Assessment:	ssment:				B. AI	nalytica	Analytical Monitoring:	
Address: 2990 C. Northern Phoenix, MZ 85028-48590	25028-4234014E-100 Sheen		Color	Foam	Solids (Susp. or Settled)	Odor (specify)	Other (specify)	Other (specify)	TSS (Units)	Turbidity (Units = NTU)	PН	Other (specify)	Other
III. Monitoring Location IV.	IV. Sample Date/Time												:
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VI. ATTACHMENTS: Y ☐ VII. CERTIFICATION:	□ N X IF "YES,"LIST:												
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Printed Name: Rune Signature: Rave	Da bero			걸	e: Sup Date:	1	intende	1	300	Phone:	826	ECC Phone: $928 - 537 - 1133$	1133

June 2013

160-3(208)T H820201C



Authorization # AZCON-529084 Project/Site Name: SR 260 Towto Cr. to Colcord Monitoring Period (yr/mo/day): 12/2/13 to 3/11/13

Arizona Department of Environmental Quality Stormwater & General Permits Unit, Mailstop 5415A-1 1110 West Washington Street Phoenix, Arizona 85007

Use this form for reporting analytical and visual monitoring anytime a pollutant is known or suspected to discharge from the construction site (Permit Parts 4, 7 & 8).

VII. ATTACHMENTS: Y □ N ☒ IF "YES,"LIST: VII. CERTIFICATION: "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage this system, or those persons directly responsible for gathering the information, I believe the information submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting false		4 12/27/12	3 12/27/12	١٥/١٥ ا د ده / ١٥	12/27/12	III. Monitoring Location IV. Sample Date/Time	Phone Number: 602 - 329 - 3399	Address: 2990 C. Northem Ave. Sheen	Title: PE/CPESC	II. Person making the Inspection/Sampling Name: Edward Henan
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Printed Name: Signature:

Title: Superintendent

Phone:

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Page 1 of

260-3(208)T H820201C

of Environmental Qualit

Authorization # AZCON-529084 Project/Site Name: 58260 Tento Cr. to Colcord Monitoring Period (yr/mo/day): 1/1/13 to 3/11/13

Arizona Department of Environmental Quality Stormwater & General Permits Unit, Mailstop 5415A-1 1110 West Washington Street Phoenix, Arizona 85007

Use this form for reporting analytical and visual monitoring anytime a pollutant is known or suspected to discharge from the construction site (Permit Parts 4, 7 & 8).

II. Person making the Inspection/Sampling				<	. Polluta	nts / Par	ameters	V. Pollutants / Parameters Monitored		8	
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Address: 290 C. Northern Ave. Phoenix, AZ 85028-4834-146-40 Sheen	Sheen Color	or Foam		Odor	Other	Other	TSS (Units)	Turbidity	PH	Other	Other
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VII. CERTIFICATION: It certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage this system, or those persons directly responsible for gathering the information, I believe the information submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting false information.	d all attachmen information sut information sut	ts were pre omitted. Ba ubmitted is	spared und sed on my true, accu	der my di v inquiry o rate, and	rection or of the per complete	r supervis son or pe s. I am aw	sion in ac ersons wh	cordance wondered was manage there are si	vith a sy this syst	stem designe em, or those penalties for	sion in accordance with a system designed to assure that ersons who manage this system, or those persons directly ware that there are significant penalties for submitting false
Printed Name: Dave Dalber		 	Title: Superintedent / E	wrinte	dent	IE C	CC	Phone:	928	928-537-1133	-1133
Signature:	Se		Date:	0	09-1	10-1	i				

June 2013

Stormwater Construction General Permit AZG2013-001

Authorization # AZCON-529084 Project/Site Name: SR 260 Texto Cr. to Colcord Discharge Monitoring Report (DMR) Form 12/3/12 to 111/13 260-B(208)T H820201C

Arizona Department of Environmental Quality
Stormwater & General Permits Unit, Mailstop 5415A-1 of Environmental Quality

Monitoring Period (yr/mo/day): _ Phoenix, Arizona 85007 1110 West Washington Street

II. Person making the Ir	Person making the Inspection/Sampling					<	. Polluta	ants / Par	ameters	V. Pollutants / Parameters Monitored			
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Address: 2990	85028-48340 the Sheen	Sheen	Color	Foam	Solids (Susp.	Odor	Other	Other	TSS	Turbidity	P	Other	Other
Phone Number: 602 - 329 - 3399	2-329-3399				or Settled)	(specify)	(specify)	(specify)		NTU)		(specify)	(specify)
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VI. ATTACHMENTS: Y VII. CERTIFICATION:	Y N H F "YES,"LIST:											-	
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June 2013

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Authorization # AZCON-529084 Project/Site Name: SR 260 Texto Cr. to Colcord Monitoring Period (yr/mo/day): 12/3/12 to 3/11/13

Stormwater & General Permits Unit, Mailstop 5415A-1 Arizona Department of Environmental Quality 1110 West Washington Street Phoenix, Arizona 85007

Use this form for reporting analytical and visual monitoring anytime a pollutant is known or suspected to discharge from the construction site (Permit Parts 4, 7 & 8).

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June 2013	Signature:	Printed Name: Dave	information, inc
	Date Salling	Dave Dolburg	information, including the possibility of fine and imprisonment for knowing violations."
	Date: 09-19	Title: Superintendent /	for knowing violations."
Dogo 4 of	-/3	ECC Phone: 928-537-1/33	ions."

Page 1 of

responsible for gathering the information, I believe the information submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting false

260-B(208)T H820201C

Arizona Department of Environmental Quality Stormwater & General Permits Unit, Mailstop 5415A-1 1110 West Washington Street of Environmental Quality

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Authorization # AZCON-529084 Project/Site Name: SR 260 Towto Cr. to Colcoved Monitoring Period (yr/mo/day): 12/3/12 to 3/11/13

Phoenix, Arizona 85007

Use this form for reporting analytical and visual monitoring anytime a pollutant is known or suspected to discharge from the construction site (Permit Parts 4, 7 & 8).

II. Person making the Inspection/Sampling				.	Polluta	nts / Para	ameters	V. Pollutants / Parameters Monitored			
PE/cPes		A. Visu	A. Visual Assessment:	sment:				B. An	alytical	Analytical Monitoring:	
Address: 299 G. Northern Ave. Phone Number: 402 - 329 - 3399	Sheen Color	or Foam	Solids (Susp. or	Odor (specify)	Other (specify)	Other	TSS (Units)	Turbidity (Units = NTU)	P	Other	1
III. Monitoring Location IV. Sample Date/Time											1) 2) 2)
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VII. CERTIFICATION: "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage this system, or those persons directly responsible for gathering the information, I believe the information submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."	all attachmen information sub information sub information sub information sub information for known	ts were prep omitted. Base ubmitted is tru wing violation	ared unde ed on my . ue, accura	er my dir inquiry ot ate, and c	ection or f the pers	supervis son or pe I am aw	ion in acc rsons wh are that t	cordance w co manage t here are sig	ith a sy his sys ynifican	stem designe tem, or those t penalties for	nd to assure the persons direct submitting fals
Printed Name: Dove Dolbery		Title	Title: Super		intendent	1	CC	ohone: 9	28	ECC Phone: 928-537 -	//33
Signature: Pare Halleron			Date:		1-60	(W				

June 2013 Page 1 of _

Stormwater Construction General Permit AZG2013-001

Discharge Monitoring Report (DMR) Form

1820201C



Authorization # AZCON- 529084 Project/Site Name: SR 260 Touto Cr. to Colcord Monitoring Period (yr/mo/day): 12/3/12 to 3/11/13

Stormwater & General Permits Unit, Mailstop 5415A-1 1110 West Washington Street Arizona Department of Environmental Quality Phoenix, Arizona 85007

Use this form for reporting analytical and visual monitoring anytime a pollutant is known or suspected to discharge from the construction site (Permit Parts 4, 7 & 8).

II. Person making the Inspection/Sampling				<	Polluta	nts / Para	ameters I	V. Pollutants / Parameters Monitored			
		A. Visu	A. Visual Assessment:	sment:				B. An	alytical	Analytical Monitoring:	
Address: 2990 C. Northem Ave. Sheen Proenix, 172 85028-425416 Sheen Phone Number: 602-329-3399	Sheen Color	r Foam	Solids (Susp. or Settled)	Odor (specify)	Other (specify)	Other (specify)	TSS (Units)	Turbidity (Units = NTU)	PH	Other (specify)	Other (specify)
III. Monitoring Location IV. Sample Date/Time											
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								8		e e	
VI. ATTACHMENTS: Y ☐ N ☐ IF "YES,"LIST: VII. CERTIFICATION:											

Signature: Printed Name: qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage this system, or those persons directly responsible for gathering the information, I believe the information submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations." Title: Superinterdant Date: Phone: 928 - 537 - 1/33

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that

260-3(208)T H820201C



Authorization # AZCON-529084 Project/Site Name: SR 260 Touto Cr. to Colcord Monitoring Period (yr/mo/day): 12/8/18 to 3/11/13

Stormwater & General Permits Unit, Mailstop 5415A-1 Arizona Department of Environmental Quality 1110 West Washington Street Phoenix, Arizona 85007

Use this form for reporting analytical and visual monitoring anytime a pollutant is known or suspected to discharge from the construction site (Permit Parts 4, 7 & 8). III. Monitoring Location IV. Sample Date/Time Phone Number: 602 - 329 - 3399 Name: Address: me: Edward Henan 24 2990 M2 85028-48380-146-100 Sheen CPESC C. Northern Ave. Henan Color Foam A. Visual Assessment: Solids (Susp. or Settled) (specify) Odor 0 V. Pollutants / Parameters Monitored DI (specify) Other Other (specify) (Units) TSS Turbidity (Units = NTU) B. Analytical Monitoring: 막 (specify) Other (specify) Other

June 2013	Signature:	Printed Name: Dave	information, in
	Paine Pallan	Dave Dalberg	information, including the possibility of fine and imprisonment for knowing violations.
	Date: 09 - 19 - 13	Title: Superintendent/ECC Phone:	for knowing violations."
Page 1 of		928-537-1133	

Page 1 of

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage this system, or those persons directly

ATTACHMENTS: Y CERTIFICATION:

N | IF "YES,"LIST:

responsible for gathering the information, I believe the information submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting false

Stormwater Construction General Permit AZG2013-001

260-3(208)T



Authorization # AZCON-529084 Project/Site Name: SR 260 Touto Cr. to Colcord Monitoring Period (yr/mo/day): 12/3/12 to 3/11/13 Discharge Monitoring Report (DMR) Form H820201C

Stormwater & General Permits Unit, Mailstop 5415A-1 Arizona Department of Environmental Quality 1110 West Washington Street

Use this form for reporting analytical and visual monitoring anytime a pollutant is known or suspected to discharge from the construction site (Permit Parts 4, 7 & 8). Phoenix, Arizona 85007

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ATTACUMENTS			I	W	٤		III. Monitoring Location	one Number: 60	idress: 2996		II. Person making the Name: Ed war
ATTACHMENTS: V N'TY IE "VES "I IST.			2/11/13	2/11/13	2/11/13	2/11/13	IV. Sample Date/Time	Phone Number: 602 - 329 - 3399	Address: 2990 C. Northern Ave.	PESC	II. Person making the Inspection/Sampling Name: Ed ward Henan
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June 2013 Signature: Printed Name: responsible for gathering the information, I believe the information submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations." Jare Date: ECC Phone:

qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage this system, or those persons directly "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that

CERTIFICATION:

Page 1 of

260-3(208)T HSLOZOIC



Authorization # AZCON- 529084 Project/Site Name: SR 260 Texto Cr. to Colcord 12/3/12 to 111/13

Monitoring Period (yr/mo/day): _

Stormwater & General Permits Unit, Mailstop 5415A-1 1110 West Washington Street Arizona Department of Environmental Quality Phoenix, Arizona 85007

Use this form for reporting analytical and visual monitoring anytime a pollutant is known or suspected to discharge from the construction site (Permit Parts 4, 7 & 8).

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	Sheen Colo	A. Visu A. Visu A. Visu Color Foam Color Foam D A A A A A A A A A A A A	III. Person making the Inspection/Sampling Name: Fed ward Hernan Ar. Title: PE/CPGSC Address: 399C: Nerthern Ar. Phone Number: 602-3399 III. Monitoring Location IV. Sample Date/Time IIII. Monitoring Location IV. Sample Date/Time III. Monitoring Location IV. Sample Date/Time III. Monitoring Location IV. Sample Date/Time III. Monitoring Location IV. Sample Date/Time III. Monitoring Location IV. Sample Date/Time III. Monitoring Location IV. Sample Date/Time III. Monitoring Location IV. Sample Date/Time III. Monitoring Location IV. Sample Date/Time III. Monitoring Location IV. Sample Date/Time III. Monitoring Location IV. Sample Date/Time III. Monitoring Location IV. Sample Date/Time III. Monitoring Location IV. Sample Date/Time III. Monitoring Location IV. Sample Date/III. III. Monitoring Location IV. Sample Date/III. III. Monitoring Location IV. Sample Date/III. III. Monitoring Location IV. 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Signature: June 2013 Page 1 of

260-B(208)T

Authorization # AZCON-529084 Project/Site Name: SR 260 Tento Cr. to Colcord Monitoring Period (yr/mo/day): 2/3/12 to 3/11/13

Arizona Department of Environmental Quality

Arizona Department of Environmental Quality
Stormwater & General Permits Unit, Mailstop 5415A-1
1110 West Washington Street

Phoenix, Arizona 85007

Use this form for reporting analytical and visual monitoring anytime a pollutant is known or suspected to discharge from the construction site (Permit Parts 4, 7 & 8).

II. Person making the Inspection/Sampling	Inspection/Sampling			× 1	V. Poll	V. Pollutants / Parameters Monitored	rameters	Monitored			
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VII. CERTIFICATION: "I certify under penalty of qualified personnel proper responsible for gathering the proformation, including the proformation.	VII. CERTIFICATION: (1) certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage this system, or those persons directly responsible for gathering the information, I believe the information submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."	all attachmer nformation su information s	its were prepa bmitted. Basec ubmitted is true	red under n on my inque, accurate,	ny directior uiry of the _I and compi	or supervi person or p	sion in ac ersons wh	cordance v o manage there are s	with a sy this sys ignifican	stem designatem, or those tem, or those to penalties fo	ision in accordance with a system designed to assure that ersons who manage this system, or those persons directly ware that there are significant penalties for submitting false
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June 2013

Page 1 of

260-3(208)T H820201C

of Environmental Quality Arizona Departmen

Arizona Department of Environmental Quality Stormwater & General Permits Unit, Mailstop 5415A-1 1110 West Washington Street Phoenix, Arizona 85007

Authorization # AZCON-529084 Project/Site Name: SR 260 Tento Cr. to Colcord Monitoring Period (yr/mo/day): 12/3/12 to 3/11/13

Use this form for reporting analytical and visual monitoring anytime a pollutant is known or suspected to discharge from the construction site (Permit Parts 4, 7 & 8).

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June 2013 Page 1 of

Appendix G

Illicit Discharge; Illicit Connection



Arizona Department of Transportation

Administrative Services Division

206 South Seventeenth Avenue Phoenix, Arizona 85007-3213

John H. Nichols Division Director

John S. Halikowski

September 28, 2012

NOTICE OF ILLEGAL DISCHARGE OR CONNECTION

PetSmart 7650 West Latham Street Phoenix, Arizona 85043

Dear Sir or Madam:

The Arizona Department of Transportation (ADOT) is responsible for maintaining not only roadways, but also the extensive storm drain network located within the State rights-of-way. The Arizona Pollutant Discharge Elimination System (AZPDES) Program, which is a component of the Clean Water Act of 1972, requires ADOT to control the amount of pollutants entering the drainage system. Part of this charge is the detection and elimination of illegal discharges or connections to the system that may contain pollutants or are otherwise not allowed. Left uncorrected, any pollutants entering the system will ultimately affect nearby streams, as storm drainage is not treated at any sort of treatment facility. In addition, neighboring property owners are not allowed to occupy, use or interfere with public right of way without permission. Any discharge without permission is an illegal encroachment on ADOT right of way.

On August 21 and August 23, 2012 two separate discharges of stormwater and sediment entered ADOT's roadway. Since this was not a permitted action, it is an illicit discharge into our storm system. It is the understanding of the ADOT Water Quality Group that PetSmart is taking corrective action to remediate the problem. We request that once a permanent fix is identified that we are notified.

If you do not understand this notice, or you disagree that an illegal discharge occurred from your property, please contact me with further details or explanation by calling 602.712.8353 or by email at wterlizzi@azdot.gov.

Sincerely,

Wendy Terlizzi

ADOT Office of Environmental Services Water Quality Manager

1611 W Jackson Street, MD EM04

endy leilight

Phoenix, Arizona 85383

cc: Todd G. Williams, ADOT Office of Environmental Services Director

Tim Wolfe, ADOT Phoenix Maintenance District Engineer

Lisa Andersen, ADOT Phoenix Maintenance District Environmental Coordinator



Arizona Department of Transportation

Administrative Services Division

206 South Seventeenth Avenue Phoenix, Arizona 85007-3213

John H. Nichols
Division Director

John S. Halikowski

September 28, 2012

NOTICE OF ILLEGAL DISCHARGE OR CONNECTION

Mr. John Berookhim and/or Mr. Farid Moradi 10814 Rochester Avenue Los Angeles, CA 90024-4910

Dear Mr. Berookhim and Mr. Moradi:

The Arizona Department of Transportation (ADOT) is responsible for maintaining not only roadways, but also the extensive storm drain network located within the State rights-of-way. The Arizona Pollutant Discharge Elimination System (AZPDES) Program, which is a component of the Clean Water Act of 1972, requires ADOT to control the amount of pollutants entering the drainage system. Part of this charge is the detection and elimination of illegal discharges or connections to the system that may contain pollutants or are otherwise not allowed. Left uncorrected, any pollutants entering the system will ultimately impact nearby streams, as storm drainage is not treated at any sort of treatment facility. In addition, neighboring property owners are not allowed to occupy, use or interfere with public right of way without permission. Any discharge/connection without permission is an illegal encroachment on ADOT right of way.

An inspection of the drainage system has occurred on September 21, 2012 near your property located at the Loop 202 (Santan Freeway) and McQueen Road and an illegal connection was discovered entering into the ADOT system. Photographs of this connection are enclosed with this letter.

This connection must be removed within 30 days. A follow-up investigation will be conducted after that time to ensure compliance. If the situation is not corrected, ADOT will remove the connection and bill you directly pursuant to A.R.S. § 28-7053. In the alternative, ADOT can forward this matter to the Arizona Office of the Attorney General so that a lawsuit may be filed.

If the illegal connection cannot be removed within 30 days, you do not understand this notice, or you disagree that an illegal connection exists at your property, please contact me with further details or explanation by calling 602.712.8353 or by email at wterlizzi@azdot.gov.

Sincerely,

Wendy Terlizzi

ADOT Office of Environmental Services Water Quality Manager

1611 W Jackson Street, MD EM04

Phoenix, Arizona 85383

cc:

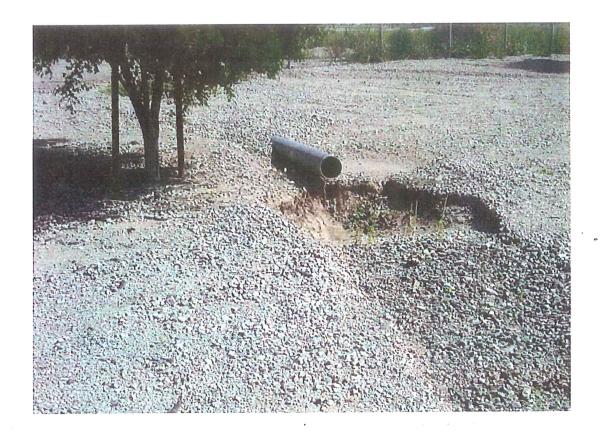
Todd G. Williams, M.Sc, ADOT Office of Environmental Services Director

Tim Wolfe, ADOT Phoenix Maintenance District Engineer

Lisa Andersen, ADOT Phoenix Maintenance District Environmental Coordinator



DISCHARGE





Environmental Services

Janice K. Brewer, Governor John S. Halikowski, Director John H. Nichols, Deputy Director

July 2, 2013

Angelo Yializis, Owner 10960 North Stallard Place Tucson, AZ 85737

NOTICE OF ILLEGAL DISCHARGE OR CONNECTION

Dear Mr. Yializis:

The Arizona Department of Transportation (ADOT) is responsible for maintaining not only roadways, but also the extensive storm drain network located within the State rights-of-way. The Arizona Pollutant Discharge Elimination System (AZPDES) Program, which is a component of the Clean Water Act of 1972, requires ADOT to control the amount of pollutants entering the drainage system. Part of this charge is the detection and elimination of illegal discharges or connections to the system that may contain pollutants or are otherwise not allowed. Left uncorrected, any pollutants entering the system will ultimately impact nearby streams, as storm drainage is not treated at any sort of treatment facility. In addition, neighboring property owners are not allowed to occupy, use or interfere with public right of way without permission. Any discharge/connection without permission is an illegal encroachment on ADOT right of way.

An inspection of the drainage system occurred on April 29, 2013 near your property located along SR 77, North Oracle Road and an illegal connection was discovered entering into the ADOT system. Photographs of this connection are enclosed with this letter.

This connection must be removed within 30 days. A follow-up investigation will be conducted after that time to ensure compliance. If the situation is not corrected, ADOT will remove the connection and bill you directly pursuant to A.R.S. § 28-7053. In the alternative, ADOT can forward this matter to the Arizona Office of the Attorney General so that a lawsuit may be filed.

If the illegal connection cannot be removed within 30 days, you do not understand this notice, or you disagree that an illegal connection exists at your property, please contact Leigh Waite with further details or explanation by calling 602.712.6170 or by email at lwaite@azdot.gov.

Sincerely,

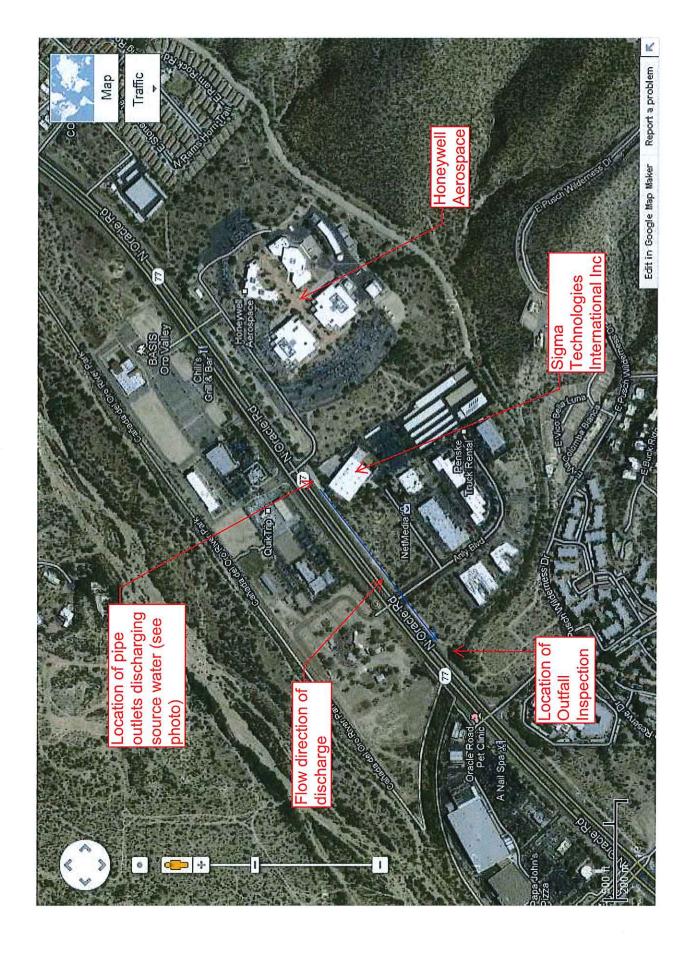
Wendy Terlizzi, CMS4S

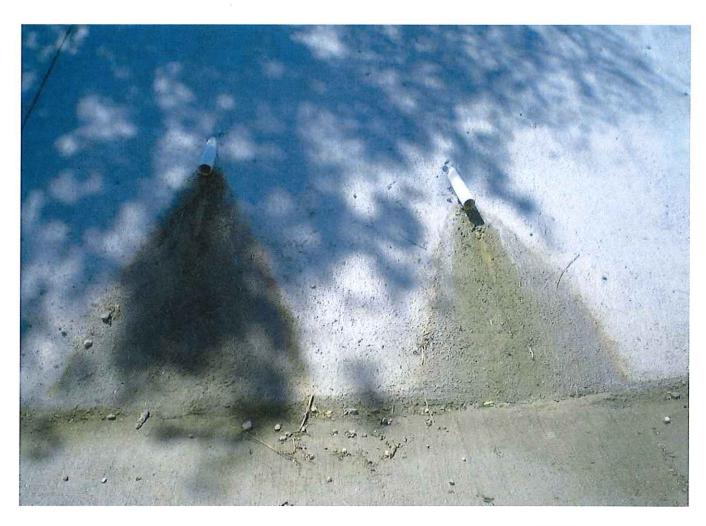
Water Quality Manager

cc: Todd G. Williams, M.Sc, ADOT Environmental Services Director

Rod Lane, ADOT Tucson District Engineer

Melissa Reuter, ADOT Tucson District Environmental Coordinator







Appendix H

Compliance Evaluation Reports



Arizona Department of Transportation

Administrative Services Division

206 South Seventeenth Avenue Phoenix, Arizona 85007-3213

Governor

John S. Halikowski Director December 5, 2012

John H. Nichols Division Director

Mr. Michael Halpin General Manager Grand Canyon Airport P.O. Box 3399 Grand Canyon, AZ 86023-3399

Dear Mr. Halpin:

Enclosed is a copy of the annual multi tenant environmental compliance inspection report for Grand Canyon Airport. The environmental compliance inspection was conducted on October 3, 2012 All four tenants at the airport are required to submit a copy of their site specific Spill Prevention, Control, and Countermeasures plan (cover page only) within 90 days of this report unless other arrangements are made. Tenants will send the cover page to:

ADOT

Attn. Kent Haugerud, Compliance Evaluator 1901 S. Milton Rd., MD 500 Flagstaff, AZ 86001.

Contact Kent Haugerud, at (602) 376-8532 or by email at khaugerud@azdot.gov. if you have questions regarding this report.

Thanks for helping ADOT maintain compliance,

Chuck Howe, Compliance Manager Office of Environmental Services 1611 W. Jackson St., MD EM02 Phoenix, AZ 85007 928-310-6844

Copy: Mike Cochrum, P.O. Box 3188, Hwy 64, Grand Canyon, AZ 86023 Mike Vessey, P.O. Box 3188, Hwy 64, Grand Canyon, AZ 86023 Wendy Terlizzi, WQG, 1611 W. Jackson St., MD EM02, Phoenix, AZ 85007

Enclosure: Annual Multi Tenant Compliance Inspection

Annual Multi Tenant Inspection Summary

Inspectors Comments: Grand Canyon Airport (GCN) is owned and operated by ADOT under the Administrative Services Division (ASD). In addition to ADOT operated facilities, there are four commercial operating tenants located on the airport property. Airport operations at this facility are regulated by EPA, ADEQ, FAA and OSHA related to environmental regulations (air quality, stormwater, spill prevention, safety and health, and hazardous materials). The airport is currently operating under a Stormwater Pollution Prevention (SWPPP) plan in accordance with ADOTs Statewide Stormwater Discharge Permit. ADOT is completing a Facility Pollution Prevention Plan (FPPP) which will satisfy EPA's requirement for a SWPPP plan as well as a Spill Prevention, Control, and Countermeasures (SPCC) plan. In addition, a determination has been made by ADOT Office of Environmental Services (OES) Water Quality Group that each tenant operating fuel systems on GCN property will be required to establish and maintain an SPCC for each site under their control.

Air quality permits are required for all emergency generators located at the airport to comply with ADEQ Air Quality rules. An Approval to Operate (ATO) for each of four ADOT-owned and operated generators was observed at the time of the inspection. The ATO for an additional generator located at the FAA Air Traffic Control Tower was not observed at the time of this inspection, but is on file at OES and is maintained and permitted by FAA (Los Angeles District Office).

Many of the items noted in previous annual facility inspections were corrected. Following is a list of <u>deficiencies</u> which are required to be corrected under State or Federal Law and <u>recommendations</u> which should be complied with in order to be in compliance with various ADOT plans and standards. Deficiencies or recommendations that are followed by "Repeat" are issues that were noted on a previous inspection, corrected, and occurred again. Deficiencies or recommendations that are followed by "Continued" are issues that were noted on a previous inspection and never corrected.

GCN ADOT Operations:

Deficiencies:

Twenty sites are required to be inspected quarterly under the Grand Canyon Airport
Stormwater Pollution Prevention Plan (SWPPP). Inspection reports for the third quarter of
2012(ending September) were not available at the time of the inspection. Sixteen of the twenty
site inspections required has not been completed.
Complete as necessary.

ADOT Maintenance site:

Deficiencies:

- 1. Correctly label all 55-gallon drums. Continued
- 2. Post appropriate safety signage around grinder, i.e. "Eye Protection Required," "Gloves Required," etc. Continued

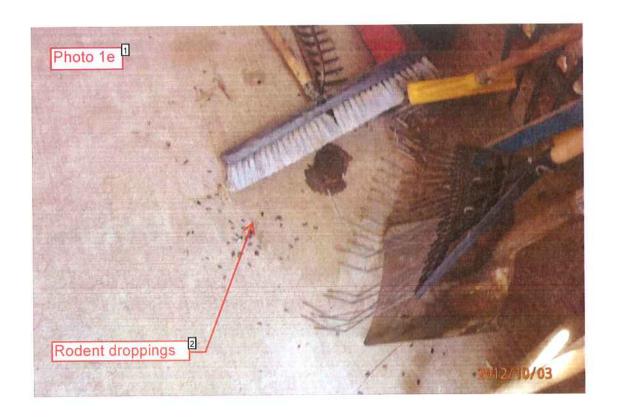
- 1. Housekeeping: Although progress has been made removing trash around the outside of the building, more effort is necessary inside the building (Photo 1e and 5e).
 - a. Replace makeshift oil containment area with an appropriate containment pallet. This will help with housekeeping, as well as provide a clean secondary containment reducing fire hazard. (Photo 4e) **Continued**

- b. Clean up all oils leaks or spills at the time they occur so that concrete or pavement is not permanently stained.
- 2. Fire extinguisher sign is not above the fire extinguisher. Move sign as necessary. Continued
- Parts washer is sitting on top of a 5-gallon bucket. Place parts washer on a permanent support structure.
- 4. Remove mop bucket from makeshift secondary containment. Photo Continued
- Follow good housekeeping procedures to prevent spillage of materials during liquid transfers at the drum storage area. Remove oily residues around oil drums, and liquid accumulated in containment pallets.
- 6. Clean up oil spills and leaks at the time of release. Place oil drip pans under leaking vehicles parked for an extended time.
- 7. Provide secondary containment for five gallon buckets containing petroleum products unless they are stored in a protected storage area. (Photos 2e and 3e)
- 8. Place sign above sink stating "Do Not Dump Chemicals Down This Drain." Remove stored washing machine (not connected for use).

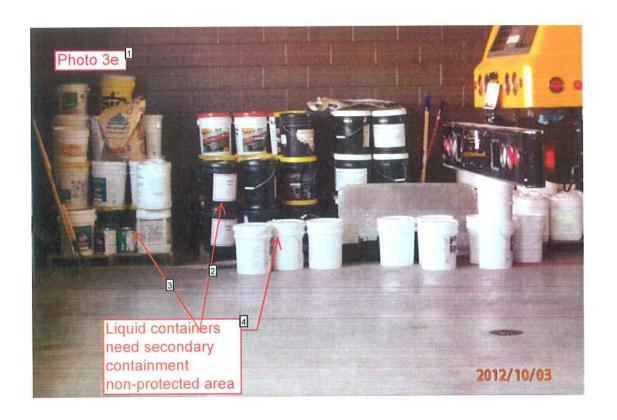
ARFF Site:

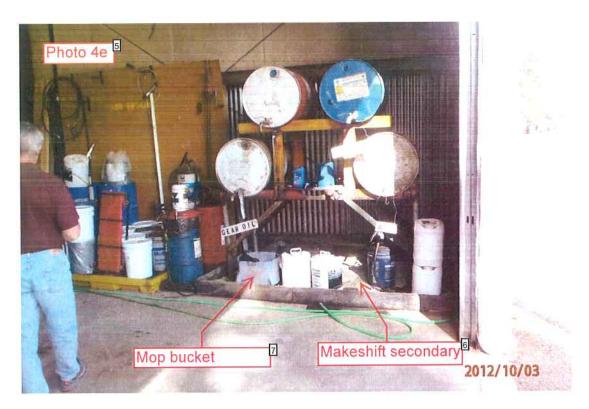
Deficiencies: None

- Clean up oil spills and leaks at the time of release to prevent permanent staining on concrete or pavement. Place oil drip pans under leaking vehicles when parked in or around building. Repeat
- 2. Install a collection device for the Caterpillar emergency genet. Flexible hose outside unit is discharging to ground.
- 3. Provide spill containment in an appropriate location for 5-gallon buckets of petroleum products that are not stored in a protected area. (Photo 2e and 3e) **Continued**











Following is a summary of the actions, recommendations and deficiencies noted during the non-ADOT tenant inspections.

Grand Canyon Airlines:

Deficiencies:

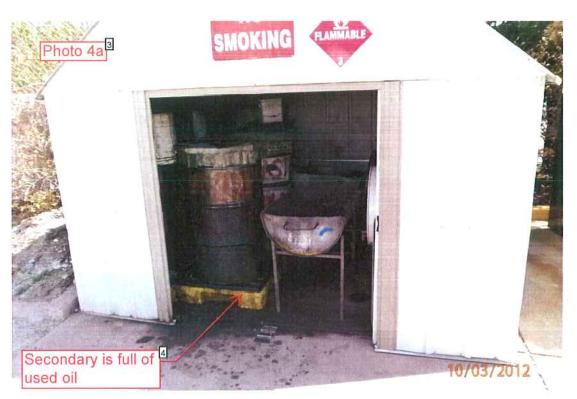
- Under ADOT requirements established by ADOT Office of Environmental Services, Grand Canyon Airlines must develop and maintain a Spill Prevention, Control, and Countermeasure (SPCC) plan in accordance with EPA and Title 40 of the Code of Federal Regulations, Part 112 (40CFR112). Since the facility has more than 10,000 gallons of fuel storage, or individual tanks exceeding 5,000 gallon capacity, the plan must be certified by a Professional Engineer registered in the State of Arizona.
- Provide the appropriate signage, (NFPA diamond, No Smoking, Product name) on the double wall used oil tank in accordance with the NFPA 704 standard and Compressed Gas Association. Continued
- 3. Provide appropriate signage on propane tanks adjacent to GCA hanger in accordance with the International Fire Code and NFPA 704 standard. **Continued**
- 4. Provide full containment of 55-gallon containers. Maintain containment basins by pumping when necessary. This should be done to comply with all SPCC requirements.

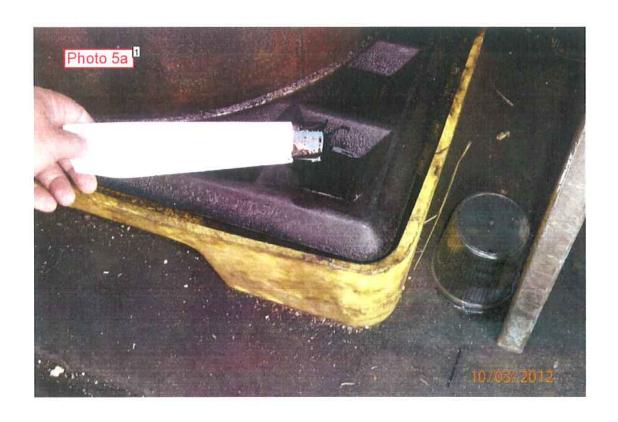
- 1. Since no oil / water separator is located at this facility, place a sign stating "Do Not Dump Chemicals or Oily Mop Water Down the Drain" above the sink.
- 2. Separate corrosive materials from flammable materials inside all flammable storage units to avoid possible dangerous reaction.
- A plastic gasoline container in one of the flammable storage units is marked with "MEK." Methyl Ethyl Ketone (MEK) should be stored in an approved safety container in accordance with 1910.1200.
- 4. Follow good housekeeping procedures to prevent spillage of materials during liquid transfers at the used oil and solvent drum storage shed. The used oil transfer and storage area is in need of cleanup. Secondary containment for used oil needs to be pumped out. **Continued**
- 5. Lid should be kept closed on parts solvent washer.
- 6. Keep area around the spill response kit clear to ensure easy access and high visibility.











Papillon Helicopters

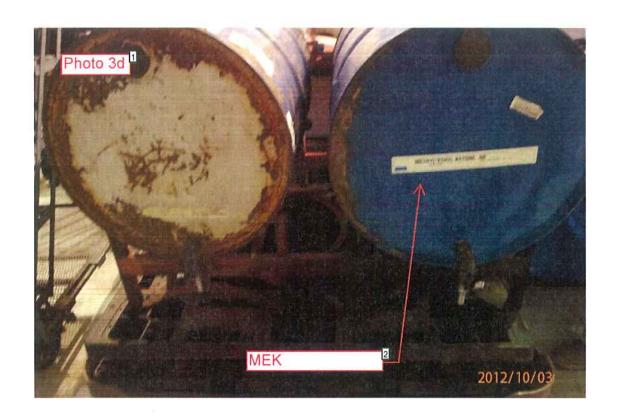
Deficiencies:

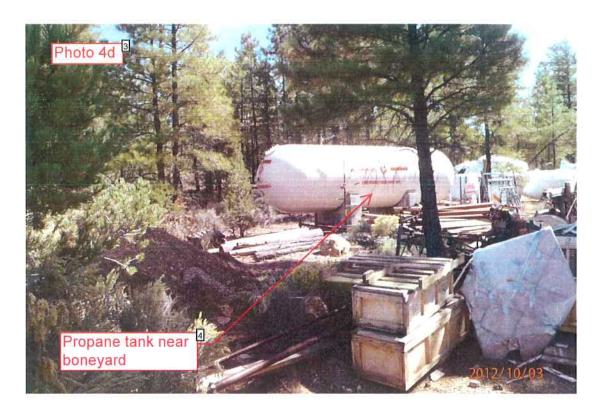
- 1. Under ADOT requirements established by the Office of Environmental Services, Papillon Helicopters must develop and maintain a Spill Prevention, Control, and Countermeasure (SPCC) plan in accordance with EPA and Title 40 of the Code of Federal Regulations, Part 112 (40CFR112). If the facility has more than 10,000 gallons of fuel storage, or individual tanks exceeding 5,000 gallon capacity, the plan must be sealed by a Professional Engineer registered in the State of Arizona. Otherwise, a plan may be developed and self certified by the owner or operator.
- An NFPA diamond is needed on the used oil storage tank in accordance with NFPA 704.Continued
- 3. Need proper labeling, and bonding and grounding wires for Class I, MEK 55-gallon drums in accordance with OSHA labeling requirements 1910.1200.

- 1. Remove stains at used oil containment transfer area.
- 2. Clear area around propane storage tank located near bone yard. General housekeeping near propane tank and bone yard can be improved.









Grand Canyon Helicopter

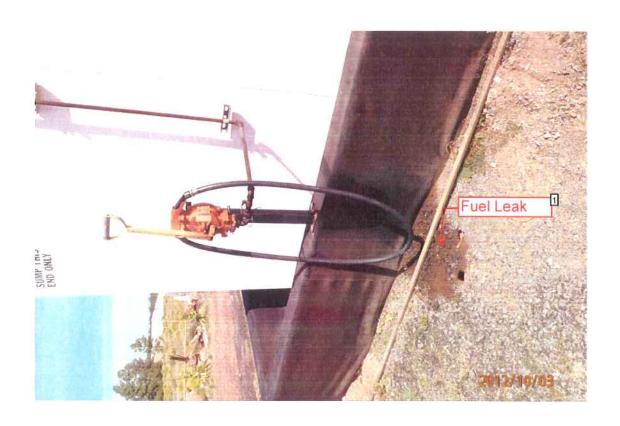
Deficiencies:

- Under ADOT requirements established by ADOT Office of Environmental Services, GCH must develop and maintain a Spill Prevention, Control, and Countermeasure (SPCC) plan in accordance with EPA and Title 40 of the Code of Federal Regulations, Part 112 (40CFR112). If the facility has more than 10,000 gallons of fuel storage, or individual tanks exceeding 5,000 gallon capacity, the plan must be sealed by a Professional Engineer registered in the State of Arizona. Otherwise, a plan may be developed and self certified by the owner or operator.
- 2. Need NFPA label on used oil tank in accordance with NFPA 704. Continued
- 3. Need appropriate labeling on propane tank in accordance with the International Fire Code and NFPA 704 standard. **Continued**

- 1. Repair leaky fuel hose near fuel containment.
- 2. Keep hoses rolled up off the ground when not in use.
- 3. Sign stating "No Chemicals Down The Drain" above sink.









Maverick Helicopters

Deficiencies:

1. Under ADOT requirements established by ADOT Office of Environmental Services, Maverick Helicopters must develop a Spill Prevention, Control, and Countermeasure (SPCC) plan in accordance with EPA and Title 40 of the Code of Federal Regulations, Part 112 (40CFR112). If the facility has more than 10,000 gallons of fuel storage, or individual tanks exceeding 5,000 gallon capacity, the plan must be sealed by a Professional Engineer registered in the State of Arizona. Otherwise, a plan may be developed and self-certified by the owner or operator.

Recommendations:

- Recommend placing filter fabric and two check dams at eroded drainage channel from parking area. Placing filter fabric and rock check dams on the channel will allow contaminants to settle and slow the water velocity down so that erosion will not continue. This should be completed so that we maintain compliance with the Stormwater Pollution Prevention Plan (SWPPP).
 Continued
- 2. Broken concrete near drainage area should be disposed of off site if there is no use for it.
- 3. Spoils pile located near drainage should be moved away from the edge of the drainage and straw waddles placed around the base to prevent sediment from washing away.
- 4. Drainage culvert needs to be cleared of debris at inflow point.
- 5. Proper containment for fuel nozzles should be provided.
- Crash protection (bollards) should be placed around the double walled above ground storage tank.

Please contact Kent Haugerud at 602-376-8532 if you have questions regarding this inspection report.

