



Arizona Department of Transportation
Office of Environmental Services
206 South 17th Avenue, MD 102A
Phoenix, Arizona 85007

Stormwater Management Plan
2012 Annual Report
MS4 Permit No. AZS000018-2008



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ACRONYMNS and DEFINITIONS

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

A&Wc – Aquatic and Wildlife (cold water)

A&Ww – Aquatic and Wildlife (warm water)

AASHTO - American Association of State Highway and Transportation Officials

ADEQ – Arizona Department of Environmental Quality

ADOT – Arizona Department of Transportation

AgL – Agricultural Livestock Watering

AHLI – Adopt-a-Highway Litter Initiative

A.R.S. – Arizona Revised Statute

ASD – Administrative Services Division

AZPDES – Arizona Pollutant Discharge Elimination System – The State program for issuing, modifying, revoking and reissuing, terminating, monitoring and enforcing permits, and imposing and enforcing pretreatment requirements, under Sections 307, 318, 402, and 405 of CWA.

BLM – Bureau of Land Management

BMP – Best Management Practice - Permit condition used in place of or in conjunction with effluent limitations to prevent or control the discharge of pollutants. BMPs may include, but are not limited to, treatment requirements, operating procedures, or practices to control plant/facility site runoff, spillage, leaks, sludge or waste disposal, or drainage from raw material storage. BMPs may also include schedule of activities, prohibition of practices, maintenance procedure, or other management practice.

BOD – Biological Oxygen Demand

COD – Chemical Oxygen Demand

CWA – Clean Water Act - The Clean Water Act is an act passed by the U.S. Congress to control water pollution. It was formerly referred to as the Federal Water Pollution Control Act of 1972 or Federal Water Pollution Control Act Amendments of 1972 (Public Law 92-500), 33 U.S.C. 1251 et. seq., as amended by: Public Law 96-483; Public Law 97-117; Public Laws 95-217, 97-117, 97-440, and 100-04.

DEC – District Environmental Coordinator

DMR – Discharge Monitoring Report - The form used (including any subsequent additions, revisions, or modifications) to report self-monitoring results by AZPDES permittees. DMRs must be used by approved states as well as by EPA.

EPA – U.S. Environmental Protection Agency

EPCP – Erosion Pollution Control Plan

ERP – Enforcement Response Plan

FAA – Federal Aviation Administration

FBC – Full Body Contact

FC – Fish Consumption

FIS – Features Inventory System

FPPP – Facility Pollution Prevention Plan

GCNPA – Grand Canyon National Park Airport

IDDE – Illicit Discharge Detection and Elimination

MS4 – Municipal Separate Storm Sewer System - A conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, manmade channels, or storm drains) owned by a state, city, town or other public body, that is designed or used for collecting or conveying stormwater, which is not a combined sewer, and which is not part of a publicly owned treatment works. Commonly referred to as an "MS4" [40 CFR 122.26(b)(8)].

NASPA – Northern Arizona Stormwater Pollution Alliance

NEPA –National Environmental Policy Act

NFPA – National Fire Protection Association

NOV – Notice of Violation

NTU – Nephelometric Turbidity Units

OES – Office of Environmental Services

OSHA – Occupational Safety and Health Administration

PAG – Pima Association of Governments

PBC – Partial Body Contact

Permit – Arizona Pollutant Discharge Elimination System Permit No. AZS000018-2008

Permittee – means the Arizona Department of Transportation.

QAM – Quality Assurance Manual

SCOE - Standing Committee on the Environment

SMP – Slope Management Program

SR – State Route

SSC – Suspended Sediment Characteristics

SSWMP – Statewide Stormwater Management Plan – A comprehensive plan for implementation of AZPDES permit requirements.

STORM – STormwater Outreach for Regional Municipalities

Stormwater – Stormwater runoff, snowmelt runoff, and surface runoff and drainage [40 CFR 122.26(b)(13)].

SWAT – Stormwater Advisory Team

SWPPP – Stormwater Pollution Prevention Plan

SWQS – Surface Water Quality Standard

TMDL – Total Maximum Daily Load

TSS – Total Suspended Solids

TDS – Total Dissolved Solids

TKN – Total Kjeldahl Nitrogen

Waters of the United States – All waters that are currently used, were used in the past, or may be susceptible to use in interstate or foreign commerce, including all waters subject to the ebb and flow of the tide. Waters of the United States include but are not limited to all interstate waters and intrastate lakes, rivers, streams (including intermittent streams), mudflats, sand flats, wetlands, sloughs, prairie potholes, wet meadows, playa lakes, or natural ponds. [See 40 CFR 122.2 for the complete definition.]

EXECUTIVE SUMMARY

The Arizona Department of Transportation (ADOT) is submitting this 2012 Statewide Stormwater Management Program (SSWMP) Annual Report describing activities and programs implemented from July 1, 2011 through June 30, 2012. During this time period ADOT operated under the Arizona Pollutant Discharge Elimination System (AZPDES) Permit No. AZS000018-2008 (Permit). This is the fourth Annual Report submitted under the Permit, which expires September 18, 2013. The Permit authorizes ADOT to discharge stormwater, and other constituents as specified, Statewide (except for Indian Country) to Waters of the United States in Arizona in accordance with its terms and conditions. Specifically, the Permit covers:

- Activities associated with the Municipal Separate Storm Sewer System (MS4) operated by ADOT
- Activities associated with construction from the commencement of construction until final stabilization initiated and controlled by ADOT
- Activities associated with industrial and maintenance facilities owned and operated by ADOT

The Annual Report is divided into the following twelve categories: (1) General Information, (2) Annual Report Certification, (3) Narrative Summary of the SSWMP activities, (4) Numeric Summary of SSWMP Activities, (5) Evaluation of the SSWMP, (6) SSWMP Modifications, (7) MS4 Monitoring Location Information, (8) Storm Event Records, (9) Summary of Monitoring Data, (10) Assessment of Monitoring Data, (11) Estimate of Pollutant Loading, and (12) Annual Expenditures. This Annual Report is used by ADOT to assess the performance of its stormwater management program and report compliance activities to the Arizona Department of Environmental Quality (ADEQ).

1 GENERAL INFORMATION

Permittee Name: Arizona Department of Transportation

Permit Number: AZS000018-2008

Reporting Period: July 1, 2011 - June 30, 2012

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2 ANNUAL REPORT 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 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.

Todd G. Williams
Todd G. Williams, M. Sc, Director, OES

12/30/12
Date

3 NARRATIVE SUMMARY OF SSWMP ACTIVITIES

Permit Section 9.1.2(c): 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 SSWMP was reviewed and no updates were made. Refer to Appendix A for a summary of implementation, progress, significant developments, and program priorities.

3.1 ADOT Technical Documents

Permit Requirement (Appendix B, Part 3): Include a short statement for each of the following documents indicating if a review was completed. Describe any major updates to each document.

ADOT reviews and updates its technical stormwater documents as needed. A status summary of each technical document is provided:

- *Erosion and Pollution Control Manual* – Update of this manual is on-going and in accordance with Permit Section 3.2.2.1(c). Updates included revision of BMP detail drawings, SWPPP index sheets, and associated training module.
- *Maintenance and Facilities Best Management Practices Manual* – There were no updates to this manual during the report year.
- *Stormwater Monitoring Guidance Manual for MS4 Activities* - There were no updates to this manual during the report year.
- *Stormwater Monitoring Guidance Manual for Construction Activities* - There were no updates to this manual during the report year.
- *Stormwater Monitoring Guidance Manual for Industrial Activities* - There were no updates to this manual during the report year.
- *Post-Construction Stormwater Control BMP Manual* - There were no updates to this manual during the report year.
- *Quality Assurance Manual (QAM)* - There were no updates to this manual during the report year.
- *Enforcement Response Plan (ERP)* - This manual was updated to reflect additional steps with respect to illicit discharge reporting and corrective action when coordinating with other MS4s.

3.2 Outfall Inspection and Tracking

Permit Section 3.2.3.2(e): ADOT shall document that a system to track and record the findings of outfall inspections, including the conditions of outfalls, potential sources of pollutants, and maintenance needs has been implemented and is being maintained.

ADOT continues to establish a system to track and record the findings of outfall inspections. Of the 71 outfalls statewide, 51 were inspected during the report year. Seven of the 51 observed dry weather flows, one of which was permitted with ADEQ. Refer to Appendix B for Dry Weather Field Screening Reports.

The lack of inspection on all outfalls is a result of staff changes, inadequate data information systems, and training. OES is implementing multiple new programs in 2012-2013 to ensure all districts are maintaining data in the same manner and receive appropriate training.

Additional work to identify new outfalls commenced in January 2012. The process to establish these new outfalls relies on a central database that stores information on all highway features. The Features Inventory System has been mapping all features statewide for several years and anticipates completion in February 2014.

Concurrent with mapping of highway features, including drainage pipes and ditches that are currently only known on paper, ADOT obtained the services of a consultant to apply the Permit outfall definition to these features as soon as the data was available.

During the process of applying the Permit outfall definition to the features it became evident that the task was insurmountable. ADOT was averaging 1,000 outfalls per district. The task was suspended pending further process review.

It is anticipated that mapping of the highway features and assessing each location as a potential outfall will continue concurrently over the next few years, or as deemed by the anticipated administrative order by the EPA.

3.3 Public Access to Stormwater Documents

Permit Section 3.2.2.3(a): ADOT shall summarize the status of public access to stormwater documents.

ADOT has maintained an online Stormwater Library that can be accessed via the internet at the following location:

http://www.azdot.gov/Inside_ADOT/OES/Water_Quality/Stormwater/Index.asp.

The internet site received 365 total page reviews and 243 unique page reviews. Anyone without internet access can obtain these documents by contacting OES at (602) 712-8353. Documents maintained in the Stormwater Library include:

- Permit and Related Documents
 - ADOT Permit
 - Statewide Stormwater Management Plan
 - Annual Reports (2005 – 2011)
 - Permit Application
- Manuals
 - Quality Assurance Manual
 - Erosion and Pollution Control Manual/BMP Detail Drawings
 - Post-Construction Best Management Practices Manual
 - Maintenance and Facilities Best Management Practices Manual
 - Stormwater Monitoring Guidance Manual for Construction Activities
 - Stormwater Monitoring Guidance Manual for MS4 Activities
 - Stormwater Monitoring Guidance Manual for Industrial Activities
 - Stormwater Enforcement Response Plan
- Maps
 - Outstanding, Impaired, and Not Attaining Waters Maps by County
 - Phase I & Phase II Stormwater System Maps

- Projects in the Five Year Program Located Near Unique and Impaired Waters
- Other Resources
 - Construction Stormwater Pollution Prevention Plan (SWPPP) Template
 - Encroachment-related documents
 - ADOT-Licensed Material Sources Documents
 - Contact list
 - Useful links

3.4 Illicit Discharges

Permit Section 3.2.3.4(d): ADOT shall summarize the status of implementation procedures to track actions taken on illicit discharges and illegal dumping. Develop and implement a procedure to track the action taken on identified illicit discharges and illegal dumping.

ADOT currently tracks illicit discharges and follow-up actions through use of a spreadsheet, with supporting documentation on the ADOT server. Each annual report year has a separate folder. District staff makes the initial contact with the alleged connector. If the connection is not proven to be permitted, and is not removed in 30 days, the issue is referred to the Water Quality Group for follow-up. All formal correspondence is tracked by the Water Quality Group.

3.4.1 Illicit Discharges Eliminated

Permit Section 3.2.3.4(b)(ii): ADOT shall report the number of illicit discharges eliminated each year in the Annual Report

ADOT has identified 9 and eliminated 8 illicit discharges for the noted District. Not all incidences required ADOT to send a letter to the land owner. In many cases, the illicit connection was corrected immediately after the district made the owner aware of the inappropriate connection. For the three instances where ADOT corresponded formally, the letter has been included in Appendix C.

- Flagstaff – 1 (determined to be permitted by ADEQ)
- Globe – 2
- Kingman District – 1
- Phoenix District – 3
- Tucson District – 1
- Safford – 1

3.4.2 Illicit Discharges Reported to Other Jurisdictions

Permit Section 3.2.3.4(c)(iii): ADOT shall present the number of illicit discharges reported to other jurisdictions for follow-up in the Annual Report

There have been no illicit discharges identified during the report year that required coordination with other jurisdictions.

3.5 Erosion Abatement Projects

Permit Section 3.2.6.2(d): ADOT shall describe the tracking system used to identify, track and prioritize erosion abatement projects. Summarize erosion abatement projects conducted during each year.

ADOT has established a procedure to identify, track, and prioritize erosion abatement projects. This consists of annual inquiries to District staff to program projects for the next fiscal year. Potential project information will be due each April. Tracking and prioritizing will be managed

by the Water Quality Group, which has recently been allotted a portion of federal subprogram funding.

Requests to Districts were solicited in May 2012 and by June 2012 ADOT had identified 22 locations that could utilize professional and financial assistance. The Water Quality Group initiated a stormwater protection program that is federally reimbursable and fiscal year 2012 monies were allocated to design solutions for these 22 locations. Site visits will commence in fiscal year 2013 and future program allocations will be used to construct the designs, or address new priorities in response to storm events.

3.6 Spills and Other Releases

Permit Section 4.1.5.2(d): ADOT shall document that a system to track and record spills and other releases by ADOT staff and at ADOT maintenance facilities has been established.

ADOT has developed and implemented a system to track and record spills. ADOT has prepared Facility Pollution Prevention Plans for all maintenance yards. The FPPP contains a spill report form that is submitted to the Water Quality Group and District Environmental Coordinator for tracking. An example Spill Reporting Form for a recent incident may be found in Appendix D.

3.7 Maintenance Facility SWPPPs

Permit Section 4.2.1.1: ADOT shall document individually that the SWPPP required for each maintenance facility has been updated.

The Permit required 18 SWPPPs at designated maintenance yards. In 2011, all 18 original sites received updates in the form of a Facility Pollution Prevention Plan (FPPP), plus an additional 73 were prepared for facilities in the state. FPPPs provide a comprehensive plan for the maintenance yards by addressing other forms of potential environmental pollution. To date, ADOT has produced and implemented 91 FPPPs.

3.8 Construction Site Issues

Permit Section 5.3.4: A list and description of all violations ADOT has determined at construction sites and their resolution, including any enforcement actions taken against ADOT contractors.

3.8.1 Construction Site Tracking System

The ADOT OES Compliance Group has developed a system to identify, track, and resolve or follow-up on violations at construction sites. Additional efforts by the OES Compliance staff include independent audits of construction sites, population of communication matrices such as environmental compliance information tracking, and performance of risk assessment.

3.8.2 Construction Violations

ADOT construction inspections resulted in a Notice of Violation issued May 21, 2012 to Haydon Construction and a Notice of Opportunity to Correct issued February 2, 2012 to Vastco. All other inspections did not result in any enforcement action.

3.9 Industrial Facilities

Permit Section 6.6.2 & 6.7.2: Provide a brief statement documenting that the SWPPPs for Grand Canyon National Park Airport and Durango Sign Factory were updated and on-site within 90 days of the effective date of the Permit.

ADOT industrial facilities include the Grand Canyon National Park Airport, Durango Sign Factory, the former Print Shop (closed 2010), and Material Sources. These facilities are discussed below.

3.9.1 SWPPP Update

SWPPPs for the Grand Canyon National Park Airport (GCNPA) and the Durango Sign Factory are being converted to FPPPs in Permit year 2012-2013. The Grand Canyon National Park Airport underwent a modification in 2012 and the Durango Sign Factory is budgeted in 2013.

GCNPA 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 property. Environmental regulations regarding airport operations at this facility are enforced by Environmental Protection Agency (EPA), ADEQ, Federal Aviation Administration (FAA), and Occupational Safety and Health Administration (OSHA). A comprehensive environmental inspection has been conducted at GCNPA each October since 2010. The inspections are conducted to determine compliance with stormwater, air quality, hazardous materials, spill prevention, health and safety, and wastewater.

This was the second annual environmental inspection at GCNPA, and many improvements have been implemented. Hangers, bulk fueling, fuel storage, equipment storage, drainage, wash rack and de-icing pad, as well as inspection and maintenance records were inspected. Housekeeping practices have been recommended and implemented to reduce or eliminate potential site runoff of pollutants. Many recommendations were suggested to be consistent with OSHA, EPA, and FAA guidelines. Secondary containment has been added as necessary. Labeling was recommended consistent with OSHA and the National Fire Protection Association (NFPA). A metric will be initiated in the next annual report when more baseline information is available.

3.9.2 No Exposure Certification – Requirement Removed

3.10 Material Sources

Permit Section 6.8.3: Provide a map of material sources and provide a status summary of each site.

ADOT's Materials Group maintains an inventory of regulated material sources and stockpile sites. The status of these sites is summarized in this section and a map illustrating the location of all sites is available in Appendix E.

3.10.1 Active Sites – Group A

Permit Section 6.8.3: Provide a status summary of each site.

ADOT has 18 sites within Group A, which is defined as active sites where work or other activities related to the extraction, processing, removal or recovery of minerals is being conducted. Group A is further defined by ADOT into the following two categories:

- Group A1 – sources used frequently for maintenance activities
- Group A2 – sources used infrequently for major construction projects

There are 11 sites within Group A1 as identified in Table-1. These sites are used frequently by ADOT Maintenance and may be occasionally used by contractors on construction projects. These sites are inspected on a quarterly basis.

Table 1 - Group A1 Sites

Material Sources Used Frequently and Inspected Quarterly			
Site No.	Source Name	District	County
1563	Pole Knoll	Globe	Apache
3043	Squaw Peak	Globe	Gila
3512	Burnt Corral	Globe	Maricopa
5154	JMP Ranches Inc.	Globe	Apache
8109	BVD	Holbrook	Coconino
7810	Crabtree	Safford	Greenlee
6662	Val Vista	Tucson	Pinal
1662	Tanner	Yuma	Yuma
2979	Vicksburg	Yuma	La Paz
3547	Gila Bend North	Yuma	Maricopa
5474	Castle Dome	Yuma	Yuma

There are 7 sites within Group A2 as identified in Table-2. These sites are used infrequently by contractors (every three to five years) for major construction projects and are inspected annually. When Group A2 sites are utilized for a project, the contractor includes the material source in the project SWPPP or develops a site-specific SWPPP. The contractor submits a Notice of Intent under the Construction General Permit, implements and maintains BMPs, conducts routine inspections, and provides temporary stabilization before filing a Notice of Termination.

Table 2 - Group A2 Sites

Material Sources Used Frequently and Inspected Quarterly			
Site No.	Source Name	District	County
8135	Warm Springs	Globe	Apache
8706	Yucca	Kingman	Mohave
8569	Dugas	Prescott	Yavapai
6022	Bowie	Safford	Cochise
5058	Picacho	Tucson	Pinal
5643	Gila Bend South	Yuma	Maricopa
8268	Tiger Wash West	Yuma	Maricopa

3.10.2 Inactive Sites – Group B

Group B includes sites or portions of sites where mining occurred in the past but is currently not an active facility.

ADOT has 5 sites in Group B, which is defined as inactive material sites being evaluated for mining license renewal, reclamation or disposal. ADOT may not hold a current mining license to some Group B sites and, therefore, ground disturbing activities at those facilities is not authorized. Table 3 provides the goal to use or reclaim Group B sites during the Permit term.

Table 3 - Group B Sites

Site No.	Source Name	District	County	Schedule			
				Year 2	Year 3	Year 4	Year 5
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	--	--	--	Further Evaluation
478	Mohawk	Yuma	Yuma	--	--	--	Further Evaluation

3.10.3 Reclaimed Sites – Group C

Group C includes sites where activities are being conducted to return the land to its pre-mining state.

ADOT currently has 2 sites in Group C as identified in Table 4. Group C is defined as sites where activities are being conducted to return the land to its pre-mining condition.

Table 4 – Group C Sites

Site No.	Source Name	District	County	Status
3562	Beaver Creek	Flagstaff	Yavapai	Pending access to the site from the Forest Service due to migratory bird issues
8629	Sevenmile Wash	Globe	Gila	Pending release documentation from the Forest Service

3.10.4 Non-Mining Sites – Group I

Group I includes non-mining sites (regulated stockpile sites).

ADOT has 12 sites in Group I, which is defined as sites used to store aggregate, dirt, and other supplies. ADOT Maintenance has access to import or export material 365 days a year; therefore, these sites are inspected quarterly.

Table 5 – Group I Sites

Non-Mining Sites Inspected Quarterly			
Site No.	Source Name	District	County
5781	Blue Grade	Flagstaff	Yavapai
7625	Fort Tuthill	Flagstaff	Coconino
1061	Second Knoll	Globe	Navajo
3591	Carol Spring Mountain	Globe	Gila
7525	Defiance	Globe	Pinal
1245	Sunset Pass	Holbrook	Coconino
8400	Sunflower	Phoenix	Maricopa

Non-Mining Sites Inspected Quarterly			
Site No.	Source Name	District	County
999	Tubac	Tucson	Santa Cruz
7885	Sahuarita	Tucson	Pima
5002	Fortuna/Blaisedell	Yuma	Yuma
6183	Dateland	Yuma	Yuma
7287	Centennial	Yuma	La Paz

3.10.5 Inspection of Material Sources

Permit Section 6.8.4.2(d): ADOT shall create a summary for each Annual Report of all inspections conducted. The summary shall include the inspection findings, deficiencies, and corrections made to each site.

Group A, B, C and I sites were inspected as indicated in the appropriate section (either quarterly, annually, or every 14 days). Reports are available from ADOT Materials Group or the appropriate ADOT District. In accordance with the Permit Section 6.8.4.2.d., the inspection findings, deficiencies, and corrective actions for non-compliant sites are provided in Table 6.

Table 6 - Summary of Inspection Findings, Deficiencies, and Corrective Actions

Site No. & Name	Findings	Deficiencies	Corrective Action
MS 2979 – Vicksburg	Berm along north breeched.	Berm along north needs repair.	Reconstruct berm near north boundary.
MS 3562 – Beaver Creek	Sediment discharge at haul road and southern boundary.	Berm along west side needs maintenance; implement check dams along haul road.	ADOT is ready to start reclamation. Migratory birds preclude reclamation until further authorization from the Forest Service.
MS 3591 – Carol Spring Mountain	Salt plume around sump; Berm along south breeched.	Sump has inadequate storage volume; Need to install flow-velocity dissipaters.	Multiple corrections to the site needed. Due to paving the haul road, runoff has increased. Reconstruct berm and redesign retention area to adequately handle the collected water. Requested facility modification for salt shed apron; need to obtain capital improvement funds to reconstruct apron or find alternate solution (add a tank to store pumped water).

Site No. & Name	Findings	Deficiencies	Corrective Action
MS 5002 – Fortuna Wash	Aggregate and reclaimed asphalt pavement mobilizing to floodplain; Illegal dumping by others, good housekeeping.	While some of the area is vegetated and provides a buffer to the wash, the north bank is sloughing. Lack of signage to preclude trespassing	ADOT is determining whether continued use of this ADOT-owned property is necessary. A prior excavated area (pit) is located between the upland area where material is stored and the ordinary high water mark of Fortuna Wash. Remedial action will take place in Permit Year 5. Install no dumping or no trespassing signage.
MS 5058 – Picacho	Non-compliance issues identified during the annual inspection. Minor soil contamination by contractors at site.	Headcutting and rilling along boundaries of the site. Good housekeeping not being implemented.	ADOT contractor has corrected the contamination issue. ADOT and contractor are still addressing slope erosions.
MS 6451 – Slick Rock Wash	Inadequate reclamation.	Stockpiles of material remain onsite; two areas along the wash bank contain asphalt waste.	There is no evidence of asphalt transport into the wash. The site was utilized nearly 2 decades ago. Vegetated buffers provide interim stabilization until ADOT can fund site remediation.
MS 6662 – Val Vista	Run-on and disturbance by off road vehicles eroding southern berm. Run on occurring along northern and eastern boundaries due to headcutting.	Infrequent maintenance of slopes, implementation of storm-water velocity dissipation.	ADOT is working with on-site contractor to address the slope issues. Additional signage could curb illegal dumping and damaging of southern berm.
MS 7287 – Centennial Wash	Run-on causing headcutting.	Infrequent maintenance of slopes.	Erosion should be periodically backfilled. ADOT currently does not have a dedicated access to the site. ADOT is working with Federal Highway Administration (FHWA) to obtain ingress/egress to the site. Repairs will occur thereafter.

Site No. & Name	Findings	Deficiencies	Corrective Action
MS 7525 – Defiance	Sediment and aggregate discharge along western boundary.	Berm not maintained; no velocity control devices.	Need to reestablish the west-side berm and replace wattles at discharge points to an unnamed drainage that intersects the haul road.
MS 7885 – Sahuarita	Run-on is eroding slopes along the north and west boundaries.	Infrequent maintenance of slopes.	ADOT needs to backfill slopes to preclude further erosion.
MS 8109 – BVD	Sediment builds up in check dams.	Check dams along eastern and western sides of the property need maintenance.	Check dams need to be cleaned out and maintained.
MS 8268 – Tiger Wash West	Small soil contamination.	Good housekeeping not implemented.	Clean up and remove the contamination.
MS 8400 Sunflower	Sediment discharge off the site. Major channeling at the haul road area.	No BMPs in place.	Fill the erosion cuts at the site and haul road. Install wattles to dissipate water flow on sharp slopes. Use rip rap channels and pipe culverts to direct the flow off the site and haul road.
MS 8763 – Fish Creek	Desilting basin inadequate; haul road eroded.	Inadequate size and location of desilting basin; overflowing and eroding haul road.	Redesign the desilting basin, use rip rap channelization and check dams to direct flow away from haul road.

3.10.6 Sites Removed from Inspection List

Sites removed from inspection requirements within the reporting year include:

- MS 1546 because it occurs on land under the authority of the White Mountain Apache Tribe and is not subject to the Permit.
- MS 1318 because it occurs on land under the authority of the Tohono O’odham Nation and is not subject to the Permit.
- MS 1546 because it occurs on land under the authority of the White Mountain Apache Tribe and is not subject to the Permit.

3.10.7 Site Plans and Training

ADOT has implemented a program to develop Erosion and Pollution Control Plans (EPCPs) for sites on the inspection list and provide appropriate training to ADOT personnel regarding inspection requirements. Approximately 2 EPCPs were developed during the report year and 3 ADOT personnel received training for inspecting these sites. The training was conducted in the field and included two District Environmental Coordinators and one Material Source staff.

4 NUMERIC SUMMARY OF SSWMP ACTIVITIES

Permit Appendix B, Part 4: Provide a numeric summary of BMPs and activities performed each year.

A numeric summary of BMPs and activities performed by ADOT during the reporting year is provided in Appendix F. Appendix F varies from prior reports due to online training modules being implemented during this report year. Modules combined some elements of training. Refer to Narrative Summary in Appendix A for additional information on classifications.

5 EVALUATION OF THE SSWMP

Permit Section 3.1.5: 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.

An evaluation of ADOT's SSWMP has been conducted utilizing EPA's January 2008 guidance entitled *Evaluating the Effectiveness of Municipal Stormwater Programs*. This guidance provides a set of methods to assess the success of a stormwater management program. The three EPA recommended approaches to evaluate program effectiveness were used:

- Assessing program operations
- Evaluating social indicators
- Monitoring water quality

5.1 Assessment of Program Operations

The purpose of assessing ADOT's program operation and activities is to verify basic compliance with the Permit and document that tangible efforts have been made to reduce impacts to stormwater. The following progress has been made to its program within the past reporting year:

Update of the SSWMP

There were no updates during this reporting period.

Guidance Manuals/Technical Documents

ADOT updated the guidance manuals and technical documents during the reporting year:

- Erosion and Pollution Control Manual (on-going), associated training module
- SWPPP Index Sheets and Stormwater Quality Protection on BMPs
- Stormwater Enforcement Response

BMP Tracking

ADOT tracked the following BMPs:

- 4,643 online classes were attended
- 192 contractors and ADOT staff attended the Erosion Control Coordinator certification or refresher class
- 9 illicit discharges were identified and 8 were removed
- 91 FPPPs for ADOT facilities were prepared, and 54 implemented

New or Revised Permits or Policies

ADOT has developed new policies that are in the stakeholder review process. These include:

- Environmental Communication

- Environmental Risk and Liability
- Facility Pollution Prevention Plans (FPPPs)
- Water Quality

5.2 Assessment of Social Indicators

The assessment of social indicators is an important element that tracks knowledge and awareness. It is also an important tool in documenting behavioral changes. The following social indicators were tracked; 1,618 volunteer groups participated in the Adopt-a-Highway Litter Initiative and 4,108 miles of highway were cleaned by Adopt-a-Highway volunteers.

ADOT is also actively involved in four stormwater collaborative efforts as described in prior annual reports; STormwater Outreach for Regional Municipalities (www.azstorm.org), Northern Arizona Stormwater Pollution Alliance, Pima Association of Governments - Stormwater Management Working Group, and American Association of State Highway and Transportation Officials. Three ADOT staff attended the Stormwater Practitioner's Meeting held in June 2012. A webinar of the event highlights can be viewed at: http://environment.transportation.org/center/products_programs/webinars/stormwater.aspx

5.3 Monitoring Water Quality

ADOT installed dedicated equipment for its MS4 locations and conducted stormwater quality monitoring during the reporting year to include:

- 5 MS4 sites monitored¹ (Flagstaff, Sedona, Phoenix, Tucson, Nogales)
- 3 maintenance yards monitored near impaired waterways (Nogales, Superior, Superior Fuel)
- 2 construction sites monitored at outstanding/impaired waterways (Marsh Station and Doubtful Canyon)
- 1 industrial facility monitored (Durango Sign Factory)

ADOT has completed the installation of automated sampling equipment for all sites, except for construction projects. These monitoring sites represent ADOT activities and anticipated sources of pollutants from ADOT operations statewide. Results obtained will help to characterize roadway stormwater in Arizona that would assist ADOT in evaluating BMPs to manage the appropriate and/or priority pollutants in the desert southwest.

In general, monitoring equipment did not function at the five MS4 locations consistently. A partial sample was collected in Phoenix during the winter season and a partial sample was collected in Tucson during the winter season. Monitoring data for MS4 locations is included in Appendix G.

Monitoring data for maintenance yards and industrial facilities is included in Appendix H.

Discharge Monitoring Reports for Marsh Station and Doubtful Canyon are included in Appendix I.

¹ Variable results were obtained due to monitoring equipment functionality

6 SSWMP MODIFICATIONS

Permit Section 3.1.6: Provide a description of modifications to the SSWMP each year:

There were no SSWMP modifications during the report year. As mentioned in last year's report, ADOT anticipates updating the SSWMP upon receipt of and action defined as a result of the EPA audit, which commenced in October 2010.

6.1 Addition of New BMPs

Permit Section 3.1.6: Summarize the development and implementation of any new stormwater management practices or pollution controls each year.

ADOT has not developed or implemented any new BMPs during the report year.

6.2 Temporary or Experimental BMPs

Permit Section 3.1.6: Describe the initiation and cessation of such BMPs and the perceived success of the temporary or experimental stormwater control.

ADOT has not instituted any temporary or experimental BMPs during the report year.

6.3 Increase of Existing BMPs

Permit Section 3.1.6: 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 reports that no current BMPs have been modified that would cause increases in the number of activities, increase the frequency of activities, or otherwise cause any increases in the level of implementation during the report year.

6.4 Replacement of Existing BMPs

Permit Section 3.1.6: 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.

ADOT has not modified or replaced any current BMPs during the report year.

7 MONITORING LOCATION INFORMATION

Permit Appendix B, Part 4: 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.

Table 7 – Monitoring Location Information

Outfall Name	Physical Location	Approximate Drainage Area	Land Use	Receiving Water / Designated Use	Monitoring Equipment
Flagstaff B40-196.14	Flagstaff: South side of intersection at Business 40 and SR180 Latitude: 35°11'53.39"N Longitude: 111°39'05.48"W	29.30 Acres	Rural Highway (80%) & Commercial Streets (20%)	Rio de Flag / A&Wedw PBC	ISCO Avalanche Full-Size Portable Sampler

Outfall Name	Physical Location	Approximate Drainage Area	Land Use	Receiving Water / Designated Use	Monitoring Equipment
Phoenix 101-13.68	Peoria: Loop 101	17.5 Acres	Urban Highway (90%) & Commercial Streets (10%)	Skunk Creek / None	ISCO 6712 Full-Size Portable Sampler
	Latitude: 33°37'19.84"N Longitude: 112°14'21.61"W				
Nogales 82.0.57	Nogales: Intersection of I19 and SR82 in NE quadrant	59.5 Acres	Urban Highway (80%) & Residential Streets (20%)	Nogales Wash (Impaired waterway) / A&Ww PBC	ISCO 6712 Full-Size Portable Sampler
	Latitude: 31°21'02.10"N Longitude: 110°55'24.48"W				
Sedona 179-313.3	Sedona: At SR179 bridge over Oak Creek	7.35 Acres	State Rout/Business Route (90%) & Commercial (10%)	Oak Creek (Outstanding waterway) / A&Wc FBC, FC, AgL	ISCO Avalanche Full-Size Portable Sampler
	Latitude: 34°51'43.93"N Longitude: 111°45'42.68"W				
Tucson 10-255.8	Tucson: I-10 & Grant Rd, within Grant Rd. Maintenance Yard	4.8 Acres	Urban Highway (90%) & ADOT Facility (10%)	Santa Cruz / A&Wedw PBC	ISCO 6712 Full-Size Portable Sampler
	Latitude: 32°15'17.19"N Longitude: 110°59'49.39"W				

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

8 STORM EVENT RECORDS

Permit Requirement: 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.

ADOT completed installation of five MS4 monitoring locations during 2011. However, only two partial samples were collected during the report year because there was inoperable equipment or insufficient flow. A summary of storm event records is included in Appendix J.

9 SUMMARY OF MONITORING DATA

Permit Requirement (Appendix B, Part 9): 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. Include, as an attachment, the laboratory reports for stormwater samples.

Monitoring data and lab reports for Phoenix and Tucson are included in Appendix G.

10 ASSESSMENT OF MONITORING RESULTS

10.1 MS4 Results

As previously stated in Sections 8 and 9, ADOT was unable to consistently conduct stormwater monitoring. Based on available data, there were no exceedances of any surface water quality standards.

10.2 Total Maximum Daily Loads

Permit Requirement (Appendix B, Part 11.D): Assess the effectiveness of BMPs meeting wasteload allocation associated with TMDL.

No Total Maximum Daily Loads have been established for receiving waters associated with the five sampling locations.

10.3 Industrial Results

Permit Requirement (Sections 8.3.3, 8.3.4.1, & 8.5.2.2): Provide a summary of monitoring performed at industrial and construction sites as required in the Permit. Describe any adverse conditions that prevented sampling stormwater discharges. Where facility outfalls are essentially identical, justify the sampling of only one outfall.

Two qualifying events were recorded during the report year. Discharge Monitoring Reports (DMRs) and lab reports for the industrial monitoring is provided in Appendix H.

10.4 Construction Results

ADOT and its contractors conducted in-stream monitoring at two construction projects during the reporting year. DMRs for these in-stream monitoring activities are provided in Appendix I.

10.4.1 Marsh Station I-10 Construction Project

ADOT conducted in-stream monitoring within Cienega Creek located approximately 18 miles south of Tucson along Interstate 10. This monitoring was associated with the realignment of the Union Pacific Railroad and the Marsh Station Road. No discharges occurred during the report year.

10.4.2 Doubtful Canyon SR260 Construction Project

ADOT conducted in-stream monitoring within Doubtful Canyon located approximately 19 miles east of Payson along State Route (SR) 260. This monitoring was associated with a road widening of SR 260. Discharges occurred during the report year in August, October, and December 2011.

10.5 Maintenance Facilities

ADOT conducted additional monitoring at three maintenance yards during the report year. DMRs and associated lab reports for the maintenance facilities are provided with the industrial data in Appendix H.

11 ESTIMATE OF POLLUTANT LOADING

Permit Requirement (Section 8.7.7): 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.

Estimated pollutant loading reduction calculations for the two of five MS4 sites that experienced qualifying rain events (Phoenix and Tucson) are included in Appendix K.

12 ANNUAL EXPENDITURES

Permit Requirement (Appendix B, Part 13): 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.

ADOT funding is derived from a multitude of local, state, and federal sources.

12.1 Five-Year Construction Program

ADOT's Five-Year Construction Program is the document that expresses how ADOT intends to invest transportation dollars over the next five years and it is updated annually and approved by the State Transportation Board. This year, OES accessed a subprogram for Stormwater Protection (subprogram).

The subprogram sets aside one million dollars per year for five years (2012-2016) as federally reimbursable dollars to pursue infrastructure improvements. Late this report year, the ADOT kicked-off a 22-location, statewide erosion and sediment control project. ADOT intends to use this subprogram to meet Permit requirement 3.2.6.2.d.

With fiscal year 2012 dollars all locations will be investigated to determine. Each site will receive a 15% scope of work to determine baseline conditions and which sites to carry forward and which sites to postpone. Priorities have been assigned to sites that are: 1) within ¼ mile of an Outstanding or Impaired water; 2) contribute to another MS4; 3) near or adjacent to a water of the US; and, 4) exhibiting general erosion.

This subprogram is estimated to roll out and allocate 2013-2016 funds to new projects, augment existing construction projects with a stormwater component, or construct those designed with FY 2012 money. OES will continue to evaluate the need for individual projects, or participate in cost-share with other subprograms (i.e. pavement preservation, safety, roadway, bridge) to utilize cost savings where projects are programmed and retrofits for stormwater protection are warranted.

12.2 Highway Maintenance Program

Maintenance stormwater issues will be state funded and covered under the Highway Maintenance Program. While maintenance yards are not eligible for federal reimbursement (subprogram), infrastructure improvements or retrofits that involve installation of BMPs, modifying drainage, and may otherwise serve to improve water quality may qualify for the subprogram on a site by site basis. Otherwise, routine BMP maintenance items would be funded during the annual legislative-approval process.

12.3 Administrative Budget

The Administrative Budget is an additional source of state funding for ADOT and is appropriated by the Arizona Legislature. As part of the Administrative Budget, ADOT receives approximately \$62,000,000 in state funds for administrative purposes.

12.3.1 Office of Environmental Services Budget

Expenditures include nearly \$1,000,000 in converting SWPPPs to FPPPs and preparing new FPPPs for all ADOT yards, \$40,000 on training templates for two-thirds of the yards, \$86,000 on outfall mapping assessments, and \$103,000 to purchase, install, and maintain monitoring equipment.

13 ADOT MS4 AUDIT

13.1 Update of 2010 EPA Audit

The EPA contacted and met with ADOT staff in June 2012 to discuss progress made in mapping outfalls and inventorying post-construction BMPs. It is anticipated that additional information will be available in the next annual report.

APPENDIX A
Narrative Summary of SSWMP Activities

Appendix A

Narrative Summary of SSWMP Activities 2011-2012

Requirement: Provide 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			
New Table of Contents	Permit Reference	2010 SSWMP Reference	Description and Implementation of BMPs
BEST MANAGEMENT PRACTICES	3.2.1.1, 3.2.1.2, and 3.2.1.3	4.0	<p>Section 4.0 of the 2010 SSWMP details the Best Management Practices (BMPs) to improve operations and reduce pollution at or within ADOT facilities, Statewide and District Maintenance, MS4s, industrial facilities, and material sources. This includes:</p> <p>Measures to control discharges through education. Ninety percent (90%) of appropriate staff were trained via six online classes. Refer to numeric summary of BMPs in Appendix F.</p> <p>ADOT produced 91 facility pollution prevention plans for maintenance facilities statewide. Training is scheduled to commence in 2013.</p> <p>ADOT kicked off a statewide erosion and sediment control project in June 2012. Design and construction is scheduled to commence in 2013.</p>
A. MEASURES TO CONTROL DISCHARGES THROUGH EDUCATION	3.2.2	4.1	ADOT's stormwater education program includes training, public education and outreach, public participation and involvement, and intra and intergovernmental coordination.
1. ADOT Employee Training	3.2.2.1(a)	4.1.1	<p>ADOT has developed training curricula, as well as a system for administering, tracking, and providing training to all appropriate personnel. New employees receive training within the first year of hire or within the first year of the change in their responsibilities. Refresher training is required at least once every three years. 4,643 online classes were taken during the report year.</p> <p>ADOT continues to improve intergovernmental coordination by routinely attending stormwater meetings with four stormwater groups, two in central Arizona, one in northern AZ, and one in southern AZ.</p>

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Narrative Summary of SSWMP Activities 2011-2012

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New Table of Contents	Permit Reference	2010 SSWMP Reference	Description and Implementation of BMPs
a. Stormwater Awareness Training	3.2.2.1(a) (i)	4.1.1.2	<p>General Stormwater Training is required to educate personnel at all levels of responsibility who are involved in activities that may impact stormwater quality and those staff who may come into contact with or otherwise observe an illicit discharge or illicit connection to the storm sewer system.</p> <p>General stormwater training online resulted in 80 of 90 required staff to be trained during the report year.</p>
b. Specific Stormwater Training	3.2.2.1(a) (ii)	4.1.1.3	<p>Specific stormwater training is required to educate personnel who are directly involved in activities that may impact stormwater quality or that may generate or manage non-stormwater discharges. Five focused stormwater training sessions were developed to include:</p> <p>Good Housekeeping: Pesticides and Fertilizers (654 of 673 were trained)</p> <p>Good Housekeeping: Waste Disposal and Industrial Sites (971 of 1040 were trained)</p> <p>Non-Stormwater & Illicit Discharges and Illegal Dumping (973 of 1040 were trained)</p> <p>Stormwater Management – Construction Disturbances (932 of 1006 were trained); and</p> <p>Storm Sewer System and Highway Maintenance (906 of 966 were trained).</p>
c. Stormwater Library	3.2.2.1(a) (iii)	3.3	<p>This library is a virtual library available at: http://www.azdot.gov/inside_adot/OES/Water_Quality/Stormwater/Manuals.asp.</p> <p>The page was visited 365 times during the report year.</p>

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New Table of Contents	Permit Reference	2010 SSWMP Reference	Description and Implementation of BMPs
2. ADOT Construction Contractor Training and Certification	3.2.2.1(b)	4.1.2	<p>ADOT requires all contractor's inspectors to participate in the Construction Contractor Training and Certification Course offered by the Arizona Association of General Contractors to become an Erosion Control Coordinator (ECC) on ADOT projects. The 16 hour ECC training course covers the erosion and sediment control BMP requirements in the AZPDES CGP and inspection and maintenance of these BMPs. There is a refresher component, currently required for ADOT staff, every three years.</p> <p>192 personnel were trained during the report year (refer to Numeric Summary in Appendix F for additional information).</p>
3. Erosion and Pollution Control Manual	3.2.2.1(c)	4.1.3	<p>The Erosion and Pollution Control Manual addresses the selection, design, installation and maintenance of effective erosion, sediment, and waste control BMPs that ADOT uses for stormwater and non-stormwater discharges.</p> <p>ADOT provides updates to the manual as needed.</p>
4. Public Education and Outreach	3.2.2.2	4.1.4	<p>Public education and outreach are ongoing efforts by ADOT to inform members of the general public about actions individuals can take to reduce transportation-related pollutants and improve water quality.</p> <p>ADOT participates in annual workshops to assist with public outreach. Two were attended during the report year.</p>
a. Program Description	3.2.2.2(a)	4.1.4.1	<p>The target audience of this program component is the construction industry and the public (highway users). Target pollutants include sediment transport from construction sites, litter, spills, and illicit discharges.</p> <p>There were no changes to the program during the report year.</p>

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Narrative Summary of SSWMP Activities 2011-2012

Requirement: Provide 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			
New Table of Contents	Permit Reference	2010 SSWMP Reference	Description and Implementation of BMPs
b. Distribution of Materials through Public Places	3.2.2.2(b)(i)	4.1.4.2	<p>ADOT distributes material through participation in four regional stormwater groups, Arizona Clean and Beautiful, and Don't Trash AZ.</p> <p>ADOT distributes educational material through pamphlets, posters, highway variable message boards, bus stop posters, TV advertisements, radio announcements, and booths at local events.</p> <p>ADOT continues to attend monthly meetings with STORM and quarterly meetings with PAG; as a member of these outreach venues, ADOT is affiliated with regional outreach efforts as described in the respective annual reports.</p> <p>Additional efforts to coordinate with other Phase I and Phase II municipalities are handled by attending semi-annual meetings with the Phase I Coalition and the Northern Arizona Stormwater Pollution Alliance.</p>
c. Distribution of Materials through ADOT's Stormwater Web Page	3.2.2.2(b)(ii)	4.1.4.3	<p>ADOT maintains a webpage that contains a number of links to other organizations who play a role in stormwater management (ADEQ, EPA, FHWA, etc).</p> <p>ADOT's stormwater website can be accessed via: http://www.azdot.gov/Inside_ADOT/OES/Water_Quality/Stormwater/Index.asp</p>
5. Public Involvement and Participation	3.2.2.3	4.1.5	Public involvement and participation are ongoing efforts that ADOT participates in via regional educational outreach to improve water quality statewide.
a. Public Availability of Stormwater Documents	3.2.2.3(a)	4.1.5.1	Distribution of materials is continually accomplished via the ADOT stormwater website, STORM, and PAG.
b. Public Comments	3.2.2.3(b)	4.1.5.2	ADOT gathers public comments on the SSWMP via phone.
c. Public Reporting System	3.2.2.3(c)	4.1.5.3	ADOT implemented a hotline for illicit discharges and illegal dumping.

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Narrative Summary of SSWMP Activities 2011-2012

Requirement: Provide 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			
New Table of Contents	Permit Reference	2010 SSWMP Reference	Description and Implementation of BMPs
d. Adopt-A-Highway	3.2.2.3(d)	4.1.5.4	The Adopt-A-Highway program allows individuals to adopt a highway as a volunteer or through a maintenance provider as a sponsor.
e. Litter Hotline	3.2.2.3(e)	4.1.5.5	The litter hotline includes a toll free number and an online reporting form for citizens to report litterers.
6. Intra and Inter-Governmental Coordination	3.2.2.4	4.1.6	<p>Intra and Inter-Governmental Coordination is a program that includes coordination mechanisms and program enforcement procedures among divisions, groups, sections and districts within ADOT and stakeholders to ensure compliance with the terms of the Permit.</p> <p>ADOT attended 10 intergovernmental workshops this report year and updated the Stormwater Enforcement Response Plan in 11/2011 to improve coordination with MS4s.</p>
a. Internal Coordination	3.2.2.3(a)	4.1.6.1	<p>Various departments among ADOT strive together to achieve the goals of the Permit. OES administers the Permit, provides training, guidance, and outreach, and responds daily to inquiries. OES plans to hire an Environmental Trainer in 2013 to enhance training and outreach efforts. Several districts entrust the District Environmental Coordinator with local training classes.</p> <p>Meetings among ADOT staff are set up on an as-needed basis.</p>
b. Intergovernmental Coordination	3.2.2.3(b)	4.1.6.2	<p>ADOT coordinates with stakeholders, e.g., the Federal Highway Administration, Bureau of Land Management, Department of Agriculture Forest Service, Arizona State Land Department, Metropolitan Planning Organizations, Councils of Governments, and regional stormwater groups.</p> <p>OES attends meetings with these groups at least annually.</p>

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Narrative Summary of SSWMP Activities 2011-2012

Requirement: Provide 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			
New Table of Contents	Permit Reference	2010 SSWMP Reference	Description and Implementation of BMPs
B. ILLICIT DISCHARGE/ ILLEGAL DUMPING DETECTION AND ELIMINATION MEASURES	3.2.3 3.2.3.1(a)	--	The IDDE program serves to detect, investigate, and minimize or eliminate illicit discharges in the ADOT MS4.
1. Minimizing Illicit Discharges and Illegal Dumping	3.2.3.1	--	ADOT's district staff are the primary staff to identify any illicit discharges. These field personnel routinely perform visual inspections of infrastructure and are cross-trained to look for, document, report, and track illicit discharges and illegal dumping. Illicit discharges and illegal dumping are reported to OES for tracking and following up, as needed, and at least annually for the report year.
a. Encroachment Permit Enforcement	3.2.3.1(b)	4.2.1.1	ADOT implements and enforces encroachment permits and external party requirements for activities within ADOT's right-of-way. There were no changes to this program during the report year.
b. Maintenance and Facilities Best Management Practices (BMPs) Manual	3.2.3.1(c)	4.2.1.2	The BMP Manual describes the selection criteria, design, installation and maintenance of effective BMPs to minimize pollutants in ADOT's non-stormwater discharges. There were no changes to this manual during the report year.
c. Authorized Non-Stormwater Discharges	3.2.3.1(d)	4.2.1.3	ADOT discharges certain authorized non-stormwater discharges and implements BMPs to minimize contaminants that may result from these contributions. BMPs for reducing erosion, sedimentation, and stormwater contamination are outlined in the Erosion and Pollution Control Manual and the Maintenance and Facilities BMP Manual. There were no changes to these manuals during the report year.

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Narrative Summary of SSWMP Activities 2011-2012

Requirement: Provide 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			
New Table of Contents	Permit Reference	2010 SSWMP Reference	Description and Implementation of BMPs
d. Training	3.2.3.1(e)	4.1.1.3	973 staff were trained during the report year.
2. Detecting Potential Illicit Discharges and Illicit Connections	3.2.3.2	--	Implement BMPs to detect illicit discharges and illicit connections. ADOT detected 9 illicit discharges and eliminated 7 during this report. One connection was found to be permitted and another requires additional coordination and follow-up.
a. Outfall Inventory	3.2.3.2 (a)	4.2.2.1	ADOT has assessed all potential outfalls in three of nine districts during the report year. Consultants reviewed 1,850 miles of highway and estimated 1,681 could be considered outfalls by the current Permit definition.
b. Storm Sewer System Map	3.2.3.2 (b)	4.2.2.2	Based on the preliminary results of the Outfall Inventory, ADOT revisited the approach of utilizing ADOT FIS (all drainage features) to determine whether the mapping effort would be manageable. No mapping was completed during the report year.
c. Stormwater Monitoring Guidance Manual for MS4 Activities	3.2.3.2(c)	3.3.7	This guidance manual provides the procedures used by ADOT personnel to conduct Permit-required monitoring associated with MS4 activities. This monitoring includes dry weather screening for illicit connections and illicit discharges and seasonal wet weather monitoring. There were no changes to this manual during the report year.
d. Dry Weather Screening	3.2.3.2(d), (e)	4.2.2.4	ADOT has been successful in implementing a dry weather outfall screening and discharge characterization program in two districts (Flagstaff and Phoenix). Dry weather screening occurred at 51 locations during the report year. Refer to Appendix B for inspection results.
e. Training	3.2.3.2(f)	See 4.1.1.3	906 staff were trained during the report year.

Appendix A

Narrative Summary of SSWMP Activities 2011-2012

Requirement: Provide 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			
New Table of Contents	Permit Reference	2010 SSWMP Reference	Description and Implementation of BMPs
3. Investigating Potential Illicit Discharges	3.2.3.3	--	Implement practices and procedures to investigate potential illicit discharges.
a. Establish illicit discharge investigation procedures	3.2.3.3 (a)	4.2.3.1	ADOT's 'Dry Weather Field Screening Sites' portion of the Stormwater Monitoring Guidance Manual for MS4 Activities describes procedures to investigate potential illicit discharges and illegal dumping to identify possible sources. There were no changes to this manual during the report year.
b. Investigate Illicit Discharges (Source Identification)	3.2.3.3 (b) 3.2.3.3 (c) and 3.2.3.4(d)	4.2.3.2 4.2.3.3 and 4.2.3.4	ADOT initiates investigations and responds to complaints within 15 days from the date of detection or report of an illicit discharge. ADOT maintains an .xl spreadsheet to track reports and follow-up actions of illicit discharges and illegal dumping. Nine illicit discharges were reported and 7 were subsequently removed during the report year.
c. Incidental Dry Weather Discharge Reporting	3.2.3.3(d)	4.2.3.4	ADOT field staff reports dry weather discharges to OES for tracking. Within 15 days of detection ADOT initiates appropriate follow-up action to eliminate or document the discharge as permitted. One dry weather discharge in Flagstaff (SR 89, MP 371.71) was found to be permitted by ADEQ. Refer to inspection reports in Appendix B.
4. Eliminating Illicit Discharges and Illegal Dumping	3.2.3.4	--	Eliminate Illicit Discharges and Illegal Dumping

Appendix A

Narrative Summary of SSWMP Activities 2011-2012

Requirement: Provide 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			
New Table of Contents	Permit Reference	2010 SSWMP Reference	Description and Implementation of BMPs
a. Eliminate Existing Dry Weather Flows	3.2.3.4 (a)	4.2.4.1	<p>This temporary BMP required ADOT to investigate and eliminate (if warranted) the sources of existing dry weather flows from the six major outfalls in the July 21, 2005 Summary Report – Dry Weather Screening within the first 90 days of the permit.</p> <p>ADOT completed this requirement during the first report year.</p>
b. Eliminate Sources of Illicit Discharges	3.2.3.4 (b)	4.2.4.2	<p>ADOT takes action to eliminate source(s) of illicit discharges within 90 days of detection using ADOT's legal authority (Stormwater Enforcement Response Plan) to terminate illicit discharges and illegal dumping.</p> <p>Nine illicit discharges were detected, with seven subsequently removed during the report year.</p>
c. Coordinate with Local Jurisdictions for Complaint Response and Investigation	3.2.3.4 (c)	4.2.4.3	<p>ADOT may coordinate with other jurisdictions, including ADEQ, for assistance in enforcement where ADOT lacks legal authority or if an illicit discharger fails to comply with ADOT procedures.</p> <p>The Stormwater Enforcement Response Plan was updated in November 2011 to expand on coordination with MS4s.</p>
d. Record Actions	3.2.3.4(d)	4.2.3.2	<p>ADOT maintains an .xl spreadsheet to track reports and follow-up actions of illicit discharges and illegal dumping. Refer to Appendix C.</p>
5. Responding to Spills	3.2.3.5	4.2.5	<p>ADOT responds to spills as a result of highway accidents and emergencies and implements guidance from the Arizona Department of Emergency Management Plan, ESF-10 Oil and Hazardous Materials Annex.</p> <p>ADOT has maintained an emergency response team and responded to 17 incidents that discharged hazardous materials into a storm drain or waterway. Refer to Annual Report Section 3.6 for additional information.</p>

Appendix A

Narrative Summary of SSWMP Activities 2011-2012

Requirement: Provide 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			
New Table of Contents	Permit Reference	2010 SSWMP Reference	Description and Implementation of BMPs
C. MEASURES TO CONTROL DISCHARGES FROM NEW CONSTRUCTION AND LAND DISTURBANCES	3.2.4	--	Description of a program to reduce the discharge of pollutants from construction sites.
1. Applicability of Construction Requirements	5.1	4.3.1	This BMP contains the requirement for all construction sites and activities that are owned, operated, or contracted by ADOT to comply with provisions of the Permit. There were no changes to construction requirements during the report year.
2. Construction Site SWPPPs	5.2	4.3.2	ADOT requires all construction sites over 1-acre of disturbance to develop a Construction SWPPP. There were no changes to construction requirements during the report year.
a. General Requirements	5.2.1	4.3.2	ADOT or its contractor(s) develop and implement construction site SWPPPs for certain construction sites. SWPPPs are maintained on the site and at the appropriate ADOT Office. There were no changes to construction requirements during the report year.
b. Site and Activity Description	5.2.2	4.3.2	ADOT templates contain the required components of a SWPPP including a site description, map, receiving waters, monitoring program, potential pollutants sources, and off-site material storage areas. There were no changes to construction requirements during the report year.

Appendix A

Narrative Summary of SSWMP Activities 2011-2012

Requirement: Provide 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			
New Table of Contents	Permit Reference	2010 SSWMP Reference	Description and Implementation of BMPs
c. BMPs to Reduce Pollutants	5.2.3	4.3.2	<p>ADOT outlines the criteria for selection, installation, and maintenance of BMPs for inclusion in Construction SWPPPs. BMPs are contained in the Erosion and Pollution Control Manual, Maintenance and Facilities BMP Manual, Post-Construction Stormwater Control BMP Manual, Stormwater Monitoring Guidance Manual for Construction Activities, and Stormwater Monitoring Guidance Manual for MS4 Activities.</p> <p>There were no changes to construction requirements during the report year.</p>
d. Construction Inspections	5.2.5	4.3.2	<p>ADOT requires routine inspections of construction sites to ensure BMPs are functional and effective and that the SWPPP is being properly implemented. Routine inspections are conducted jointly by ADOT and the project Erosion Control Coordinator in accordance with AZPDES permit coverage for the subject project.</p> <p>Routine inspections have occurred as required during the report year.</p>
e. Construction BMP Maintenance	5.2.4	4.3.2	<p>ADOT requires a maintenance plan for all erosion and sediment control BMPs. The ECC and/or Resident Engineer are responsible for oversight of the requirements of this section, including maintaining all BMPs in effective operating condition, performing maintenance of ineffective BMPs within seven days of discovery and before the next anticipated storm event, and removing sediment from sediment traps when the design capacity has been reduced by 50%.</p> <p>There were no changes to this construction requirement during the report year.</p>
f. SWPPP Updates	5.2.6	4.3.2	<p>ADOT requires updates to the construction site SWPPP to be documented within 14 days following an inspection.</p> <p>Site construction SWPPPs have been updated as required.</p>

Appendix A

Narrative Summary of SSWMP Activities 2011-2012

Requirement: Provide 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			
New Table of Contents	Permit Reference	2010 SSWMP Reference	Description and Implementation of BMPs
3. Operators under Contract to ADOT for Performing Construction Activities	5.3	--	Requires compliance with the construction general permit.
a. Compliance with Construction General Permit	5.3.1	4.3.3.1	ADOT requires contractors to comply with the AZPDES CGP for regulated construction projects through contract specifications (104.09), which accommodates two types of projects (designated sensitive and standard). ADOT began discussion among various organizations within ADOT in June 2012 to rewrite the entire specification to streamline adherence to the CGP.
b. NOT - Transfer of Responsibility to ADOT	5.3.2	4.3.3.2	ADOT contractors file an NOT after temporary stabilization efforts have been completed and a 45-day grace period for seeding germination has lapsed. ADOT may assume responsibility or require remedial actions if seeding or temporary stabilization fail. If ADOT assumes the project by allowing the contractor to file an NOT, then ADOT maintains the project SWPPP and all associated requirements until final stabilization is deemed complete (by another organization in ADOT). There were no changes to this construction requirement during the report year.
c. Completed Construction Site Inventory	5.3.3	4.3.3.3	Twice per year (by July 10 and January 10) ADOT provides ADEQ with an electronic list of all construction projects, including the name of the project and its associated AZCON number(s), that have achieved final stabilization and that ADOT considers to be complete. This serves as a collective NOT for ADOT projects. The inventory was provided to the ADEQ as required. 52 project locations achieved final stabilization during the report year.

Appendix A

Narrative Summary of SSWMP Activities 2011-2012

Requirement: Provide 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			
New Table of Contents	Permit Reference	2010 SSWMP Reference	Description and Implementation of BMPs
d. Enforcement Tracking and Reporting	5.3.4	4.3.3.4	ADOT maintains a list and description of all violations and their resolution, including any enforcement actions taken against its contractors. ADOT achieves enforcement actions through implementation of the Stormwater Enforcement Response Plan. The list is generated from the inspection letters from Construction Site Inspectors. The Resident Engineer is responsible for maintaining a file for all findings and to report violations to OES. ADOT has maintained a list and had no violations during the report year.
D. MEASURES TO CONTROL DISCHARGES FROM NEW DEVELOPMENT AND REDEVELOPMENT	3.2.5	4.4	Develop and implement a comprehensive planning procedure and BMPs to prevent or minimize water quality impacts from new highway development and redevelopment.
1. Post-Construction Stormwater Control BMP Manual	3.2.5.1	4.4.1	This guidance manual details the post-construction BMPs that ADOT uses to comply with the Permit. The manual identifies factors for consideration during selection of BMPs and provides BMP design guidance There were no changes to this manual during the report year.
2. Install post-construction stormwater control BMPs	3.2.5.2	4.4.2	ADOT requires post-construction stormwater control BMPs be installed for all newly developed or redeveloped roadways that discharge stormwater runoff to impaired or unique waters. There were no changes to this requirement during the report year.
3. Inventory, inspect, and maintain all post-construction stormwater pollution control BMPs	3.2.5.3 and 3.2.6.1(a)	4.4.2	ADOT is drafting policy to guide staff in developing an inventory, and will proceed with inspecting and maintaining all post-construction BMPs in 2013.

Appendix A

Narrative Summary of SSWMP Activities 2011-2012

Requirement: Provide 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			
New Table of Contents	Permit Reference	2010 SSWMP Reference	Description and Implementation of BMPs
4. Training	3.2.5.4	4.1.1.3	932 staff were trained this report year.
E. MEASURES TO CONTROL DISCHARGES FROM ROADWAYS	3.2.6	--	ADOT shall continue to implement programs to repair roadways and associated storm sewer, maintenance, cleaning, vegetation management, and winter storm policies to reduce pollutant releases.
1. Maintenance and Facilities Best Management Practices Manual	3.2.6 (a) and (b)	4.2.1.2	The Manual describes the selection criteria, design, installation and maintenance of effective BMPs to minimize pollutants in ADOT's non-stormwater discharges. There were no changes to this manual during the report year.
2. Storm Sewer System and Highway Maintenance	3.2.6.1	--	ADOT is drafting policy to guide staff in prioritizing storm sewer inspection and maintenance of highway infrastructure. ADOT initiated multiple policies to address BMPs and erosion and sediment control. A statewide project to inventory and address deficiencies commenced in June 2012.
a. Inventory Post-Construction Stormwater Pollution Control BMPs	3.2.6.1(a)	4.5.2.1	ADOT shall develop and maintain an inventory of its post-construction stormwater pollution control BMPs. ADOT will inventory BMPs in 2013.
b. Inspect Storm Sewer System	3.2.6.1 (b)	4.5.2.2	ADOT shall implement a system to inspect and record the condition of the storm sewer system. ADOT is drafting policy to guide staff in prioritizing storm sewer inspection and maintenance of highway infrastructure.

Appendix A

Narrative Summary of SSWMP Activities 2011-2012

Requirement: Provide 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			
New Table of Contents	Permit Reference	2010 SSWMP Reference	Description and Implementation of BMPs
c. Develop Maintenance Schedules and Priorities	3.2.6.1 (c)	4.5.2.3	<p>ADOT shall identify routine maintenance schedules and maintenance priorities for its storm sewer system and evaluate priorities annually.</p> <p>ADOT is drafting policy to guide staff in prioritizing storm sewer inspection and maintenance of highway infrastructure.</p>
d. Stormwater System Repair, Maintenance, and Cleaning	3.2.6.1(d), (e), and (f)	4.5.2.4	<p>ADOT shall continue to repair, maintain, and clean its roadways to minimize pollutant discharge; and shall ensure that all storm drain inlets are assessed for evidence of illicit discharge or illegal dumping</p> <p>Routine repair and maintenance occur statewide, as needed, and are tracked after the fact.</p> <p>ADOT is drafting policy to guide staff in prioritizing storm sewer inspection and maintenance of highway infrastructure.</p>
e. Training	3.2.6.1 (g)		906 staff were trained during the report year.
3. Roadside Maintenance Program	3.2.6.2	--	ADOT shall continue to implement the BMPs described in its Highway Maintenance Program, specifically BMPs related to Vegetation Control.
a. Pesticide and Fertilizer Application	3.2.6.2(c)	--	<p>Implement practices and procedures, develop BMPs, use only aquatic pesticides in areas within or directly adjacent to waters of the US, and review practices annually.</p> <p>With issuance of the federal and state AZPDES Pesticide General Permits, ADOT began a thorough review of standard practices regarding the application of pesticides to waters of the US. ADOT continues to educate staff and coordinate pesticide application with federal partners on tribal and non-tribal land statewide. Two outreach efforts were conducted in 2012.</p>

Appendix A

Narrative Summary of SSWMP Activities 2011-2012

Requirement: Provide 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			
New Table of Contents	Permit Reference	2010 SSWMP Reference	Description and Implementation of BMPs
i. Optimize Chemical Applications	3.2.6.1 (c)(i)	4.5.3.1	With issuance of the federal and state AZPDES Pesticide General Permits, ADOT will monitor chemical applications in accordance with the relevant pesticide use permit when applying herbicides to or near waters of the US.
ii. FIFRA Certification	3.2.6.1 (c)(ii)	4.5.3.2	ADOT personnel maintain FIFRA certification(s) as required.
iii. Training	3.2.6.2 (c)(iii)	4.1.1.3	654 staff were trained during this report year.
b. Erosion Abatement Projects	3.2.6.2(d)	4.5.3.4	ADOT shall develop a system to indentify, track, and prioritize timely stabilization and repairs to road segments, not covered by the Construction part of this Permit, where slopes are 3:1 or greater and actively eroding and sediment is leaving the ADOT right-of-way or discharging to a water of the US. A statewide project to inventory and address erosion and sediment control was kicked off in June 2012. Districts submitted 22 locations statewide and were approved for evaluation. ADOT will continue to assess these locations in FY 2013.
4. Winter Storm Policies	3.2.6.3	4.5.4	ADOT implements BMPs to minimize stormwater impacts from application of salt, de-icing and anti-icing chemicals, abrasives for snow and ice removal, salt and sand storage, and snow disposal areas. These BMPs are described in the Winter Storm Management Arizona Highways Environmental Overview, Winter Storm Management of Arizona Highways Operations Manual, and Maintenance and Facilities BMP Manual. There were no updates to this manual during the report year.

APPENDIX B
Dry Weather Field Screening Reports



DRY WEATHER FIELD SCREENING SITE REPORT

General Information

Outfall Name/ID: SR 89A – MP 371.71

Date: 1-3-12 **Time:** 3:30 pm **Amount of time since last rainfall:** 12-20-11 (14 days)

Inspector(s): Kurt Harris

Immediate Surrounding Land Use Type: (circle one)

Industrial Commercial Residential Municipal Agriculture Mixed Unknown

Receiving Water: Carrol Canyon

(water of the U.S., USGS map waters, or ADEQ designated waters)

Access Instructions: EB, West Sedona & Deer Trail Drive

(nearest intersection or landmark)

I. Outfall Information

Type	Shape	Material	Dimensions	Condition
<input checked="" type="checkbox"/> Single	<input checked="" type="checkbox"/> Box	<input type="checkbox"/> CMP	<input type="checkbox"/> less than 6"	<input checked="" type="checkbox"/> Good
<input type="checkbox"/> Double	<input type="checkbox"/> Circular	<input type="checkbox"/> HDPE	<input type="checkbox"/> 12"-35"	<input type="checkbox"/> Poor
<input type="checkbox"/> Triple	<input type="checkbox"/> Elliptical	<input type="checkbox"/> PVC	<input type="checkbox"/> 36"-59"	<input type="checkbox"/> Needs work (explain)
<input type="checkbox"/> Other:	<input type="checkbox"/> Trapezoid	<input type="checkbox"/> RCP	<input checked="" type="checkbox"/> 60" and greater	
	<input type="checkbox"/> Parabolic	<input type="checkbox"/> Steel		
	<input type="checkbox"/> Other:	<input checked="" type="checkbox"/> Concrete		
		<input type="checkbox"/> Earthen		
		<input type="checkbox"/> Rip-rap		
		<input type="checkbox"/> Other:		

Photograph of Outfall (note file name): _____

II. Outfall Discharge

Flow*	Smell	Floatables	Vegetative/Algae	Deposits
<input type="checkbox"/> Dry	<input checked="" type="checkbox"/> None	<input checked="" type="checkbox"/> None	<input checked="" type="checkbox"/> None	<input checked="" type="checkbox"/> None
<input checked="" type="checkbox"/> Slow	<input type="checkbox"/> Musty	<input type="checkbox"/> Sewage	<input type="checkbox"/> Normal	<input type="checkbox"/> Sediment
<input type="checkbox"/> Moderate	<input type="checkbox"/> Sewage	<input type="checkbox"/> Oil sheen	<input type="checkbox"/> Excessive	<input type="checkbox"/> Oil
<input type="checkbox"/> Fast	<input type="checkbox"/> Rotten eggs	<input type="checkbox"/> Soap suds	<input type="checkbox"/> Inhibited	<input type="checkbox"/> Other:
	<input type="checkbox"/> Solvent	<input type="checkbox"/> Other:	(If no flow but excessive or inhibited growth, schedule additional site visit).	
	<input type="checkbox"/> Chlorine			
	<input type="checkbox"/> Other:			

Visual Observations

(If flow is present complete the following and schedule additional site visit. Report discharge to ADOT Water Quality Group and conduct source investigation within 15 days. See Appendix A, Section G of the ADOT permit for further information on source identification investigations.)

<p>1st Visit</p> <p>Date/Time: 1-3-12 at 3:30</p> <p>Precipitation <96 hours? Yes / <u>No</u></p> <p>Flow? < 0.1 cfs <u>Yes</u> / No</p>	<p>2nd Visit (>4 hours and <24 hours later)</p> <p>Date/Time: _____</p> <p>Precipitation <96 hours? Yes / No</p> <p>Flow? Yes / No</p>																								
<table style="width:100%; border: none;"> <tr> <td style="width:50%; border: none;">pH: : _____ su</td> <td style="width:50%; border: none;">Color: # _____</td> </tr> <tr> <td style="border: none;">Cl2: _____ ppm</td> <td style="border: none;">Ammonia: _____ ppm</td> </tr> <tr> <td style="border: none;">Cu: _____ ppm</td> <td style="border: none;">Oil sheen: Y / N</td> </tr> <tr> <td style="border: none;">Phenols: _____ ppm</td> <td style="border: none;">Surface scum: Y / N</td> </tr> <tr> <td style="border: none;">Deterg: _____ ppm</td> <td style="border: none;">Air Temp: _____ °F</td> </tr> <tr> <td style="border: none;">Turbidity: _____ NTU</td> <td style="border: none;">Water Temp: _____ °F</td> </tr> </table> <p style="text-align: center;">Attach copy of Chain of Custody Record (see manual for example form)</p>	pH: : _____ su	Color: # _____	Cl2: _____ ppm	Ammonia: _____ ppm	Cu: _____ ppm	Oil sheen: Y / N	Phenols: _____ ppm	Surface scum: Y / N	Deterg: _____ ppm	Air Temp: _____ °F	Turbidity: _____ NTU	Water Temp: _____ °F	<table style="width:100%; border: none;"> <tr> <td style="width:50%; border: none;">pH: : _____ su</td> <td style="width:50%; border: none;">Color: # _____</td> </tr> <tr> <td style="border: none;">Cl2: _____ ppm</td> <td style="border: none;">Ammonia: _____ ppm</td> </tr> <tr> <td style="border: none;">Cu: _____ ppm</td> <td style="border: none;">Oil sheen: Y / N</td> </tr> <tr> <td style="border: none;">Phenols: _____ ppm</td> <td style="border: none;">Surface scum: Y / N</td> </tr> <tr> <td style="border: none;">Deterg: _____ ppm</td> <td style="border: none;">Air Temp: _____ °F</td> </tr> <tr> <td style="border: none;">Turbidity: _____ NTU</td> <td style="border: none;">Water Temp: _____ °F</td> </tr> </table> <p style="text-align: center;">Attach copy of Chain of Custody Record (see manual for example form)</p>	pH: : _____ su	Color: # _____	Cl2: _____ ppm	Ammonia: _____ ppm	Cu: _____ ppm	Oil sheen: Y / N	Phenols: _____ ppm	Surface scum: Y / N	Deterg: _____ ppm	Air Temp: _____ °F	Turbidity: _____ NTU	Water Temp: _____ °F
pH: : _____ su	Color: # _____																								
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Deterg: _____ ppm	Air Temp: _____ °F																								
Turbidity: _____ NTU	Water Temp: _____ °F																								
<p>Physical Observations (1st Visit): (circle appropriate, for "other" write in description)</p> <p><u>Deposits</u>: <u>none</u> sediments oily other</p> <p><u>Odor</u>: <u>none</u> musty sewage rotten eggs solvent chlorine other</p> <p><u>Biological</u>: <u>none</u> fish algae other</p> <p>Signature: <i>Kurtis J Harris</i></p>	<p>Physical Observations (2nd Visit): (circle appropriate, for "other" write in description)</p> <p><u>Deposits</u>: none sediments oily other</p> <p><u>Odor</u>: none musty sewage rotten eggs solvent chlorine other</p> <p><u>Biological</u>: none fish algae other</p> <p>Signature: _____</p>																								

<p>1st Visit</p> <p>Use one of the following:</p> <p>A. Free Fall into container: Volume: _____ (gal) Time: _____ (sec)</p> <p>B. Channel/pipe Flow (provide sketch): Depth: _____ (in) Width: _____ (in) Velocity: _____ (ft/sec)</p> <p>Discharge estimate: _____ (gpm)</p>	<p>2nd Visit (>4 hours and <24 hours later)</p> <p>Use one of the following:</p> <p>A. Free Fall into container: Volume: _____ (gal) Time: _____ (sec)</p> <p>B. Channel/pipe Flow (provide sketch): Depth: _____ (in) Width: _____ (in) Velocity: _____ (ft/sec)</p> <p>Discharge estimate: _____ (gpm)</p>
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Additional Notes (sketch [use additional sheets if necessary], flow data, observations): Outfall discharge was determined to be a De Minimus Permit discharge permit no. AZG2010-001 from a local public water well. This was confirmed by Keith Self, AZ Water Co. (928) 282-5555 (PW SID 03-003, POE 006), SW Center Well #8, DWR#55-61666 to alleviate water hammer. Discharge is up to 620 gallons per minute.



AZPDES Permit No. AZG2010-001
NOTICE OF INTENT (NOI)
for De Minimis Discharges to Waters of the United States
• AREAWIDE, FACILITY-WIDE, PROJECT-WIDE •

FOR COVERAGE, A COMPLETE AND ACCURATE NOI MUST BE FAXED OR SUBMITTED TO:
Arizona Department of Environmental Quality; Surface Water Section — De Minimis Program
1110 West Washington, 5415A-1; Phoenix, Arizona 85007
FAX: (602) 771-4528

A. GENERAL INFORMATION

1. TYPE OF COVERAGE REQUESTED (select one): Areawide Facility-wide Project-wide

2. NAME OF AREA, FACILITY, OR PROJECT: Arizona Water Company - Sedona, PWSID 03003

3. OWNER of the facilities or discharge activities

Contact Name: Judd Williams Position/Title: VP - Operations
Business/Agency: Arizona Water Company Phone: (602) 240-6860
Mailing Address: PO Box 29006
City: Phoenix State: | AZ | Zip Code: 85038
Fax: (602) 240-6878 e-mail: jwilliams@azwater.com

4. OPERATOR of the facility or discharge activity (if different from OWNER)

Contact Name: Keith Self Position/Title: Divison Manager
Business/Agency: Arizona Water Company Phone: (982) 282-5555
Mailing Address: 65 Coffee Pot Drive
City: Sedona State: | AZ | Zip Code: 86336
Fax: (982) 282-6131 e-mail: kself@azwater.com

5. OTHER CONTACT (if different from OWNER / OPERATOR)

Contact Name: Regina Lynde Position/Title: Environmental Compliance
Business/Agency: Arizona Water Company Phone: (602) 240-6860
Mailing Address: PO Box 29006
City: Phoenix State: | AZ | Zip Code: 85038
Fax: (602) 240-6878 e-mail: rlynde@azwater.com

6. OTHER ENVIRONMENTAL PERMITS HELD OR APPLIED FOR BY THE APPLICANT (related to the discharge)
(Reference Permit Numbers & Type: previous De Minimis authorizations, UST; RCRA, APP, etc.)

AZDGP-AW0118

B. DISCHARGE INFORMATION

DISCHARGE INFORMATION FORM(S) AND MAP(S) must be enclosed with this form.

- Discharge Information Form(s) enclosed.
- Map(s) enclosed showing the area, facility, or project boundary and known discharge locations.

C. BEST MANAGEMENT PRACTICES PLAN (BMPP)

I confirm that a BMPP covering all discharges described in attached Tables 1 and 2 is enclosed with this submittal.

Contact Name for BMPP: Regina Lynde Phone: _____
Business/Agency: _____ Phone: _____
Mailing Address: _____
City: _____ State: |__| |__| Zip Code: _____
Fax: _____ e-mail: _____

C. CERTIFICATION (per Part V.K.1 of the General 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 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. In addition I certify that the operator will comply with all terms and conditions stipulated in General Permit No. AZG2010-001 issued by the Director."

Printed Name of Signer: Keith Self Title: Division Manager
Signature: *Keith Self* Date: 8/10/10
Business/Agency: Arizona Water Company

Signer or Business/Agency is the: ___ Owner and Operator of the facility or discharge activity.
(check one) Operator of the facility or discharge activity.



DRY WEATHER FIELD SCREENING SITE REPORT

General Information

Outfall Name/ID: 89A – mile post 371.21 – 10' x 4' CBC

Date: 4/13/12 **Time:** 2 pm – 3 pm **Amount of time since last rainfall:** 30 days

Inspector(s): Kurt Harris, PE

Immediate Surrounding Land Use Type: (circle one)

Industrial Commercial Residential Municipal Agriculture Mixed Unknown

Receiving Water: Carroll Canyon

(water of the U.S., USGS map waters, or ADEQ designated waters)

Access Instructions: EB 89A, West Sedona & Deer Trail Drive

(nearest intersection or landmark)

I. Outfall Information

Type	Shape	Material	Dimensions	Condition
<input type="checkbox"/> Single	<input checked="" type="checkbox"/> Box	<input type="checkbox"/> CMP	<input type="checkbox"/> less than 6"	<input checked="" type="checkbox"/> Good
<input type="checkbox"/> Double	<input type="checkbox"/> Circular	<input type="checkbox"/> HDPE	<input type="checkbox"/> 12"-35"	<input type="checkbox"/> Poor
<input type="checkbox"/> Triple	<input type="checkbox"/> Elliptical	<input type="checkbox"/> PVC	<input type="checkbox"/> 36"-59"	<input type="checkbox"/> Needs work (explain)
<input checked="" type="checkbox"/> Other: 2 – CMP's & 1 CBC	<input checked="" type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic	<input type="checkbox"/> RCP <input type="checkbox"/> Steel	<input checked="" type="checkbox"/> 10' x 4'	
	<input type="checkbox"/> Other: 2- 7'X4' CMPs	<input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> Rip-rap <input type="checkbox"/> Other:		

Photograph of Outfall (note file name): Photograph of culvert attached - deerTriDryOutlet_4-13-12

II. Outfall Discharge

Flow*	Smell	Floatables	Vegetative/Algae	Deposits
<input type="checkbox"/> Dry	<input checked="" type="checkbox"/> None	<input checked="" type="checkbox"/> None	<input checked="" type="checkbox"/> None	<input checked="" type="checkbox"/> None
<input checked="" type="checkbox"/> Slow	<input type="checkbox"/> Musty	<input type="checkbox"/> Sewage	<input type="checkbox"/> Normal	<input type="checkbox"/> Sediment
<input type="checkbox"/> Moderate	<input type="checkbox"/> Sewage	<input type="checkbox"/> Oil sheen	<input type="checkbox"/> Excessive	<input type="checkbox"/> Oil
<input type="checkbox"/> Fast	<input type="checkbox"/> Rotten eggs	<input type="checkbox"/> Soap suds	<input type="checkbox"/> Inhibited	<input type="checkbox"/> Other:
	<input type="checkbox"/> Solvent	<input type="checkbox"/> Other:	(If no flow but excessive or inhibited growth, schedule additional site visit).	
	<input type="checkbox"/> Chlorine			
	<input type="checkbox"/> Other:			

Visual Observations

(If flow is present complete the following and schedule additional site visit. Report discharge to ADOT Water Quality Group and conduct source investigation within 15 days. See Appendix A, Section G of the ADOT permit for further information on source identification investigations.)

1st Visit		2nd Visit (>4 hours and <24 hours later)	
Date/Time: 10/14/11 at 3:30 pm		Date/Time: _____	
Precipitation <96 hours? Yes / No		Precipitation <96 hours? Yes / No	
Flow? Yes / No		Flow? Yes / No	
pH: : _____ su	Color: # _____	pH: : _____ su	Color: # _____
Cl2: _____ ppm	Ammonia: _____ ppm	Cl2: _____ ppm	Ammonia: _____ ppm
Cu: _____ ppm	Oil sheen: Y / N	Cu: _____ ppm	Oil sheen: Y / N
Phenols: _____ ppm	Surface scum: Y / N	Phenols: _____ ppm	Surface scum: Y / N
Deterg: _____ ppm	Air Temp: _____ °F	Deterg: _____ ppm	Air Temp: _____ °F
Turbidity: _____ NTU	Water Temp: _____ °F	Turbidity: _____ NTU	Water Temp: _____ °F
Attach copy of Chain of Custody Record (see manual for example form)		Attach copy of Chain of Custody Record (see manual for example form)	
Physical Observations (1st Visit): (circle appropriate, for "other" write in description) <u>Deposits:</u> none sediments oily other <u>Odor:</u> none musty sewage rotten eggs solvent chlorine other <u>Biological:</u> none fish algae other Signature: _____		Physical Observations (2nd Visit): (circle appropriate, for "other" write in description) <u>Deposits:</u> none sediments oily other <u>Odor:</u> none musty sewage rotten eggs solvent chlorine other <u>Biological:</u> none fish algae other Signature: _____	

1st Visit	2nd Visit (>4 hours and <24 hours later)
Use one of the following:	Use one of the following:
A. Free Fall into container: Volume: _____ (gal) Time: _____ (sec)	A. Free Fall into container: Volume: _____ (gal) Time: _____ (sec)
B. Channel/pipe Flow (provide sketch): Depth: _____ (in) Width: _____ (in) Velocity: _____ (ft/sec)	B. Channel/pipe Flow (provide sketch): Depth: _____ (in) Width: _____ (in) Velocity: _____ (ft/sec)
Discharge estimate: About 2.5 (gpm)	Discharge estimate: _____ (gpm)

Additional Notes (sketch [use additional sheets if necessary], flow data, observations): **Two additional elliptical 7'X4' CMP's were installed adjacent to the existing box culvert. No additional flows were observed from last inspection. Outlet walls floors are gunite coated to protect from erosion.**

**SITE REPORT
 DRY WEATHER/ILLCIT DISCHARGE FIELD SCREEN**

Structure Name: 48" circular concrete pipe

Outfall Location Code: 10-130.20

L.U.Type: Commercial

Receiving Water: Aqua Fria River

Access Instructions: Park in parking lot northwest side of intersection of Aqua Fria River and W. Van Buren St.

For discrepancies or omissions only:

Outfall type, shape, material, and dimensions (see manual for codes): 48" circular concrete pipe

Vegetative Growth (circle one): none normal excessive growth inhibited growth

(If no flow but excessive or inhibited growth, schedule additional site visit).

Site Visit Information

Date/Time: 12/15/2011 1130

Precipitation <96 hours? Yes / No

Flow? Yes / No

pH: : _____ su
 Cl2: _____ ppm
 Cu: _____ ppm
 Phenols: _____ ppm
 Deterg: _____ ppm
 Turbidity: _____ NTU

Color: # _____
 Ammonia: _____ ppm
 Oil sheen: Y / N
 Surface scum: Y / N
 Air Temp: _____ °F
 Water Temp: _____ °F

Attach copy of Chain of Custody Record
 (see manual for example form)

Physical Observations (1st Visit):

(circle appropriate descriptors,
 for "other" write in description)

Deposits: none sediments oily other

Odor: none musty sewage rotten eggs solvent chlorine other

Biological: none fish algae other

Signature: John Burtus

1st Visit

Use one of the following:

A. Free Fall into container:

Volume: _____ (gal) Time: _____ (sec)

B. Channel/pipe Flow (provide sketch):

Depth: _____ (in) Width: _____ (in)

Velocity: _____ (ft/sec)

C. Discharge estimate: _____ (gpm)

Photograph of Outfall (record roll number and exposure number)



Looking west at outfall 10-130.20 under W. Van Buren

Additional Notes (sketch, flow data, observations, specify visit as 1st or 2nd) :

Not all debris identified is from outfall. May be caused by windblown and/or transients

Land Use (L.U.) Type: Indicate dominant watershed land use as residential, industrial, commercial, agricultural, mixed , unknown

**SITE REPORT
DRY WEATHER/ILLCIT DISCHARGE FIELD SCREEN**

Structure Name: Open Channel

Outfall Location Code: 10-130.30

L.U.Type Mixed Use

Receiving Water: Agua Fria Rivers

Access Instructions: Park on west side of the Avondale Friendship Park and walk west to river.

For discrepancies or omissions only:

Outfall type, shape, material, and dimensions (see manual for codes): Open channel 80'W x 12'D

Vegetative Growth (circle one): none normal excessive growth inhibited growth

(If no flow but excessive or inhibited growth, schedule additional site visit).

Site Visit Information

Date/Time: 12/15/2011 1137

Precipitation <96 hours? Yes / No

Flow? Yes / No

pH: : _____ su

Cl2: _____ ppm

Cu: _____ ppm

Phenols: _____ ppm

Deterg: _____ ppm

Turbidity: _____ NTU

Color: # _____

Ammonia: _____ ppm

Oil sheen: Y / N

Surface scum: Y / N

Air Temp: _____ °F

Water Temp: _____ °F

Attach copy of Chain of Custody Record
(see manual for example form)

Physical Observations (1st Visit):

(circle appropriate descriptors,
for "other" write in description)

Deposits: none sediments oily other

Odor: none musty sewage rotten eggs solvent chlorine other

Biological: none fish algae other

Signature: John Bunter

1st Visit

Use one of the following:

A. Free Fall into container:

Volume: _____ (gal) Time: _____ (sec)

B. Channel/pipe Flow (provide sketch):

Depth: _____ (in) Width: _____ (in)

Velocity: _____ (ft/sec)

C. Discharge estimate: _____ (gpm)

Photograph of Outfall (record roll number and exposure number)



Looking southeast at outfall 10-130.30 towards end of open channel entering Agua Fria

Additional Notes (sketch, flow data, observations, specify visit as 1st or 2nd) :

Excessive growth at outfall to Agua Fria

Land Use (L.U.) Type: Indicate dominant watershed land use as residential, industrial, commercial, agricultural, mixed , unknown

**SITE REPORT
DRY WEATHER/ILLCIT DISCHARGE FIELD SCREEN**

Structure Name: West Tunnel

Outfall Location Code: 10-145.17

L.U.Type Commercial/Residential

Receiving Water: Salt River

Access Instructions: Access at north side of Salt River along west side of Central Avenue

For discrepancies or omissions only:

Outfall type, shape, material, and dimensions (see manual for codes): 21' tunnel

Vegetative Growth (circle one): none normal excessive growth inhibited growth

(If no flow but excessive or inhibited growth, schedule additional site visit).

Site Visit Information

Date/Time: 12/21/2011 1040

Precipitation <96 hours? Yes / No

Flow? Yes No

pH: : _____ su

Cl2: _____ ppm

Cu: _____ ppm

Phenols: _____ ppm

Deterg: _____ ppm

Turbidity: _____ NTU

Color: # _____

Ammonia: _____ ppm

Oil sheen: Y / N

Surface scum: Y / N

Air Temp: _____ °F

Water Temp: _____ °F

Attach copy of Chain of Custody Record
(see manual for example form)

Physical Observations (1st Visit):

(circle appropriate descriptors,
for "other" write in description)

Deposits: none sediments oily other

Odor: none musty sewage rotten eggs solvent chlorine other

Biological: none fish algae other

Signature: Johne Burtus

1st Visit

Use one of the following:

A. Free Fall into container:

Volume: _____ (gal) Time: _____ (sec)

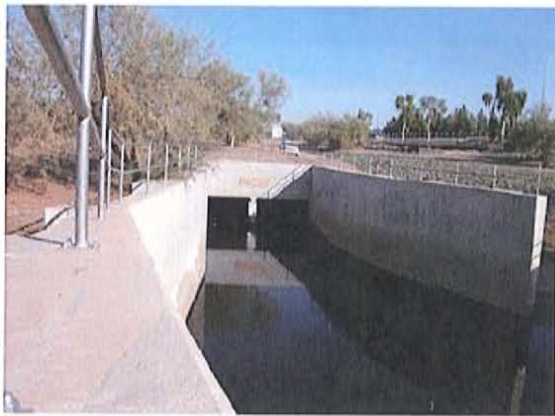
B. Channel/pipe Flow (provide sketch):

Depth: _____ (in) Width: _____ (in)

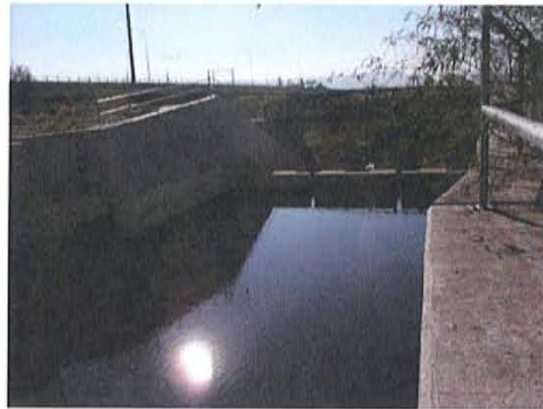
Velocity: _____ (ft/sec)

C. Discharge estimate: _____ (gpm)

Photograph of Outfall (record roll number and exposure number)



Looking north at outfall 10-145.17



Looking south towards the Salt River

Additional Notes (sketch, flow data, observations, specify visit as 1st or 2nd) :

Standing water but no flow

Land Use (L.U.) Type: Indicate dominant watershed land use as residential, industrial, commercial, agricultural, mixed , unknown

SITE REPORT
DRY WEATHER/ILLCIT DISCHARGE FIELD SCREEN

Structure Name: East Tunnel

Outfall Location Code: 10-149.18

L.U.Type Commercial/Residential

Receiving Water: Salt River

Access Instructions: Park at end of University just east of 18th Place
(nearest intersection or landmark)

For discrepancies or omissions only:

Outfall type, shape, material, and dimensions (see manual for codes): 21' concrete tunnel

Vegetative Growth (circle one): none normal excessive growth inhibited growth

(If no flow but excessive or inhibited growth, schedule additional site visit).

Site Visit Information

Date/Time: 12/21/2011 1125

Precipitation <96 hours? Yes / No

Flow? Yes / No

pH: : 7.1 su

Cl2: NA ppm

Cu: NA ppm

Phenols: NA ppm

Deterg: NA ppm

Turbidity: NA NTU

Color: # Clear

Ammonia: NA ppm

Oil sheen: Y / N

Surface scum: Y / N

Air Temp: 63 °F

Water Temp: 61.9 °F

Attach copy of Chain of Custody Record
(see manual for example form)

Physical Observations (1st Visit):

(circle appropriate descriptors,
for "other" write in description)

Deposits: none sediments oily other

Odor: none musty sewage rotten eggs solvent chlorine other

Biological: none fish algae other

Signature: 

Additional Information

Use one of the following:

A. Free Fall into container:

Volume: NA (gal) Time: NA (sec)

B. Channel/pipe Flow (provide sketch):

Depth: NA (in) Width: NA (in)

Velocity: _____ (ft/sec)

C. Discharge estimate: <2 (gpm)

Photograph of Outfall



Looking southeast at outfall 10-149.18



Looking south towards Salt River

Additional Notes

Had a trickle flow

Land Use (L.U.) Type: Indicate dominant watershed land use as residential, industrial, commercial, agricultural, mixed , unknown

SITE REPORT
DRY WEATHER/ILLCIT DISCHARGE FIELD SCREEN

Structure Name: 36" circular pipe

Outfall Location Code: 10-150.44

L.U.Type Industrial

Receiving Water: Salt River

Access Instructions: South on Old Tower Rd, go through ADOT gate across from Cutter Air.

For discrepancies or omissions only:

Outfall type, shape, material, and dimensions (see manual for codes): 36" circular pipe

Vegetative Growth (circle one): none normal excessive growth inhibited growth

(If no flow but excessive or inhibited growth, schedule additional site visit).

Site Visit Information

Date/Time: 12/21/2011 1225

Precipitation <96 hours? Yes / No

Flow? Yes / No

pH: : _____ su

Cl2: _____ ppm

Cu: _____ ppm

Phenols: _____ ppm

Deterg: _____ ppm

Turbidity: _____ NTU

Color: # _____

Ammonia: _____ ppm

Oil sheen: Y / N

Surface scum: Y / N

Air Temp: _____ °F

Water Temp: _____ °F

Attach copy of Chain of Custody Record
(see manual for example form)

Physical Observations (1st Visit):

(circle appropriate descriptors,
for "other" write in description)

Deposits: none sediments oily other

Odor: none musty sewage rotten eggs solvent chlorine other

Biological: none fish algae other

Signature: John Bunter

1st Visit

Use one of the following:

A. Free Fall into container:

Volume: _____ (gal) Time: _____ (sec)

B. Channel/pipe Flow (provide sketch):

Depth: _____ (in) Width: _____ (in)

Velocity: _____ (ft/sec)

C. Discharge estimate: _____ (gpm)

Photograph of Outfall (record roll number and exposure number)



Looking north at outfall 10-150.44

Additional Notes (sketch, flow data, observations, specify visit as 1st or 2nd) :



Needs cleared out so trap door opens/closes

Land Use (L.U.) Type: Indicate dominant watershed land use as residential, industrial, commercial, agricultural, mixed , unknown

SITE REPORT
DRY WEATHER/ILLCIT DISCHARGE FIELD SCREEN

Structure Name: Dual 72" circular pipe

Outfall Location Code: 10-150.45
(see manual, pp FCD-1-5)

L.U.Type Industrial
(see reverse)

Receiving Water: Salt River

Access Instructions: South on Old Tower Rd, go through ADOT gate across from Cutter Air.

For discrepancies or omissions only:

Outfall type, shape, material, and dimensions (see manual for codes): Dual 72" circular pipe

Vegetative Growth (circle one): none normal excessive growth inhibited growth

(If no flow but excessive or inhibited growth, schedule additional site visit).

Site Visit Information

Date/Time: 12/21/2011 1210

Precipitation <96 hours? Yes / No

Flow? Yes / No

pH: _____ su

Cl₂: _____ ppm

Cu: _____ ppm

Phenols: _____ ppm

Deterg: _____ ppm

Turbidity: _____ NTU

Color: # _____

Ammonia: _____ ppm

Oil sheen: Y / N

Surface scum: Y / N

Air Temp: _____ °F

Water Temp: _____ °F

Attach copy of Chain of Custody Record
(see manual for example form)

Physical Observations (1st Visit):

(circle appropriate descriptors,
for "other" write in description)

Deposits: none sediments oily other

Odor: none musty sewage rotten eggs solvent chlorine other

Biological: none fish algae other

Signature: _____ *John Bunter*

1st Visit

Use one of the following:

A. Free Fall into container:

Volume: _____ (gal) Time: _____ (sec)

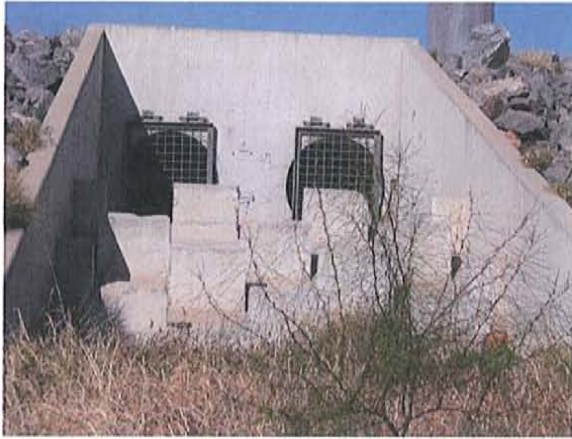
B. Channel/pipe Flow (provide sketch):

Depth: _____ (in) Width: _____ (in)

Velocity: _____ (ft/sec)

C. Discharge estimate: _____ (gpm)

Photograph of Outfall (record roll number and exposure number)



Looking north at outfall 10-150.45 along north bank of the Salt River

Additional Notes (sketch, flow data, observations, specify visit as 1st or 2nd) :



Minor repairs needed (concrete cracking)

Land Use (L.U.) Type: Indicate dominant watershed land use as residential, industrial, commercial, agricultural, mixed, unknown

SITE REPORT
DRY WEATHER/ILLCIT DISCHARGE FIELD SCREEN

Structure Name: 2 - 10' x 8' box culverts

Outfall Location Code: 10-162.44

L.U.Type Commercial

Receiving Water: Gila Floodway

Access Instructions: Park in the hotel parking lot and walk south to the outfall.

For discrepancies or omissions only:

Outfall type, shape, material, and dimensions (see manual for codes): 2 - 10' x 8' box culverts

Vegetative Growth (circle one): none normal excessive growth inhibited growth

(If no flow but excessive or inhibited growth, schedule additional site visit).

Site Visit Information

Date/Time: 1/3/2012 1500

Precipitation <96 hours? Yes / No

Flow? Yes / No

pH: : 6.8su

Cl2: _____ ppm

Cu: _____ ppm

Phenols: _____ ppm

Deterg: _____ ppm

Turbidity: NTU

Color: Clear

Ammonia: ppm

Oil sheen: Y / N

Surface scum: Y N

Air Temp: 70°F

Water Temp: 67.5°F

Attach copy of Chain of Custody Record
(see manual for example form)

Physical Observations (1st Visit):

(circle appropriate descriptors,
for "other" write in description)

Deposits: none sediments oily other

Odor: none musty sewage rotten eggs solvent chlorine other

Biological: none fish algae other

Signature: John Burtin

1st Visit

Use one of the following:

A. Free Fall into container:

Volume: _____ (gal) Time: _____ (sec)

B. Channel/pipe Flow (provide sketch):

Depth: _____ (in) Width: _____ (in)

Velocity: _____ (ft/sec)

C. Discharge estimate: _____ (gpm)

Photograph of Outfall



Looking southeast into outfall 10-162.44

Additional Notes:

None

Land Use (L.U.) Type: Indicate dominant watershed land use as residential, industrial, commercial, agricultural, mixed , unknown

SITE REPORT
DRY WEATHER/ILLICIT DISCHARGE FIELD SCREEN

Structure Name: 36" circular pipe

Outfall Location Code: 17-208.2

L.U.Type Commercial

Receiving Water: Arizona Canal Diversion Channel

Access Instructions: Park behind strip mall @ 29th Ave and Dunlap, walk east.

For discrepancies or omissions only:

Outfall type, shape, material, and dimensions (see manual for codes): 36" circular pipe (appears as rectangle at outfall point)

Vegetative Growth (circle one): none normal excessive growth inhibited growth

(If no flow but excessive or inhibited growth, schedule additional site visit).

Site Visit Information

Date/Time: 12/21/2011 930

Precipitation <96 hours? Yes / No

Flow? Yes No

pH: : _____ su

Cl2: _____ ppm

Cu: _____ ppm

Phenols: _____ ppm

Deterg: _____ ppm

Turbidity: _____ NTU

Color: # _____

Ammonia: _____ ppm

Oil sheen: Y / N

Surface scum: Y / N

Air Temp: _____ °F

Water Temp: _____ °F

Attach copy of Chain of Custody Record
(see manual for example form)

Physical Observations (1st Visit):

(circle appropriate descriptors,
for "other" write in description)

Deposits: none sediments oily other

Odor: none musty sewage rotten eggs solvent chlorine other

Biological: none fish algae other

Signature: John Burtis

1st Visit

Use one of the following:

A. Free Fall into container:

Volume: _____ (gal) Time: _____ (sec)

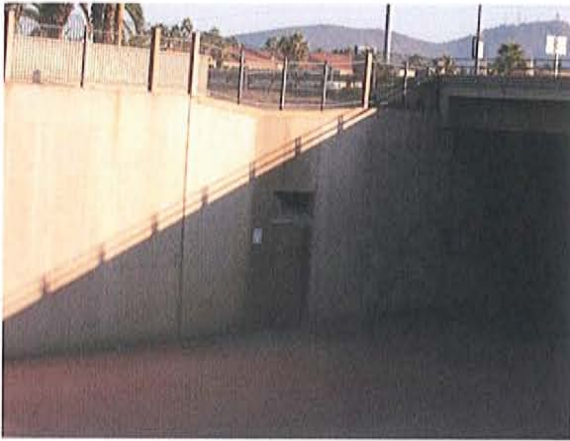
B. Channel/pipe Flow (provide sketch):

Depth: _____ (in) Width: _____ (in)

Velocity: _____ (ft/sec)

C. Discharge estimate: _____ (gpm)

Photograph of Outfall (record roll number and exposure number)



Looking northeast towards outfall 17-208.2

Additional Notes (sketch, flow data, observations, specify visit as 1st or 2nd) :

None

Land Use (L.U.) Type: Indicate dominant watershed land use as residential, industrial, commercial, agricultural, mixed , unknown

SITE REPORT
DRY WEATHER/ILLCIT DISCHARGE FIELD SCREEN

Structure Name: 48" circular pipe (rectangle at outfall point)

Outfall Location Code: 51-5.45

L.U.Type Commercial

Receiving Water: Arizona Canal Diversion Channel

Access Instructions: Park in lot at 16th Street and Glendale, walk south between two canals to east.

For discrepancies or omissions only:

Outfall type, shape, material, and dimensions (see manual for codes): 48" circular pipe

Vegetative Growth (circle one): none normal excessive growth inhibited growth

(If no flow but excessive or inhibited growth, schedule additional site visit).

Site Visit Information

12/21/2011 1445

Precipitation <96 hours? Yes / No

Flow? Yes / No

pH: : _____ su

Cl2: _____ ppm

Cu: _____ ppm

Phenols: _____ ppm

Deterg: _____ ppm

Turbidity: _____ NTU

Color: # _____

Ammonia: _____ ppm

Oil sheen: Y / N

Surface scum: Y / N

Air Temp: _____ °F

Water Temp: _____ °F

Attach copy of Chain of Custody Record
(see manual for example form)

Physical Observations (1st Visit):

(circle appropriate descriptors,
for "other" write in description)

Deposits: none sediments oily other

Odor: none musty sewage rotten eggs solvent chlorine other

Biological: none fish algae other

Signature: John Butts

1st Visit

Use one of the following:

A. Free Fall into container:

Volume: _____ (gal) Time: _____ (sec)

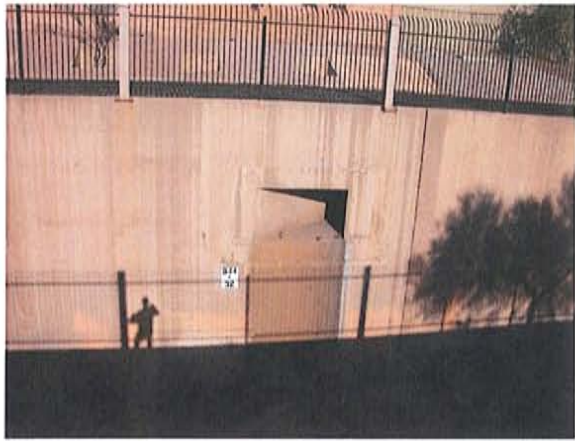
B. Channel/pipe Flow (provide sketch):

Depth: _____ (in) Width: _____ (in)

Velocity: _____ (ft/sec)

C. Discharge estimate: _____ (gpm)

Photograph of Outfall (record roll number and exposure number)



Looking east at outfall 51-5.45 along on east wall of Arizona Central Diversion Channel

Additional Notes (sketch, flow data, observations, specify visit as 1st or 2nd) :

None

Land Use (L.U.) Type: Indicate dominant watershed land use as residential, industrial, commercial, agricultural, mixed , unknown

SITE REPORT
DRY WEATHER/ILLCIT DISCHARGE FIELD SCREEN

Structure Name: 86' TW x 8' D – Trapezoidal Channel

Outfall Location Code: 51-10.91

L.U.Type: Residential
 (see reverse)

(see manual, pp FCD-1-5)

Receiving Water: Indian Bend Wash

Access Instructions: Southwest of the intersection of Sweetwater and 36th Street, furthest west tunnels under Sweetwater

For discrepancies or omissions only:

Outfall type, shape, material, and dimensions (see manual for codes): 86' TW x 8' D

Vegetative Growth (circle one): none normal excessive growth inhibited growth

(If no flow but excessive or inhibited growth, schedule additional site visit).

Site Visit Information

Date/Time: 12/14/2011 1550

Precipitation <96 hours? Yes / No

Flow? Yes / No

pH: : _____ su

Cl2: _____ ppm

Cu: _____ ppm

Phenols: _____ ppm

Deterg: _____ ppm

Turbidity: _____ NTU

Color: # _____

Ammonia: _____ ppm

Oil sheen: Y / N

Surface scum: Y / N

Air Temp: _____ °F

Water Temp: _____ °F

Attach copy of Chain of Custody Record
 (see manual for example form)

Physical Observations (1st Visit):

(circle appropriate descriptors,
 for "other" write in description)

Deposits: none sediments oily other

Odor: none musty sewage rotten eggs solvent chlorine other

Biological: none fish algae other

Signature: John Burtis

1st Visit

Use one of the following:

A. Free Fall into container:

Volume: _____ (gal) Time: _____ (sec)

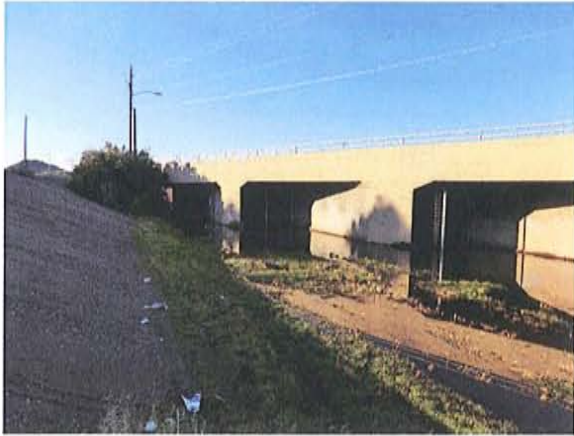
B. Channel/pipe Flow (provide sketch):

Depth: _____ (in) Width: _____ (in)

Velocity: _____ (ft/sec)

C. Discharge estimate: _____ (gpm)

Photograph of Outfall (record roll number and exposure number)



Looking northwest at outfall 51-10.91

Additional Notes (sketch, flow data, observations, specify visit as 1st or 2nd) :

Standing water present – no observable flow

Land Use (L.U.) Type: Indicate dominant watershed land use as residential, industrial, commercial, agricultural, mixed , unknown

SITE REPORT
DRY WEATHER/ILLCIT DISCHARGE FIELD SCREEN

Structure Name: 1-84" round concrete, 1-10'x8" concrete box

Outfall Location Code: : 51-11.62

L.U.Type: Residential

Receiving Water: Indian Bend Wash

Access Instructions: Park on 34th Pl, west towards Highway 51, outfall north of Thunderbird.

For discrepancies or omissions only:

Outfall type, shape, material, and dimensions (see manual for codes): 84" circular/10'x8" box

Vegetative Growth (circle one): none normal excessive growth inhibited growth

(If no flow but excessive or inhibited growth, schedule additional site visit).

Site Visit Information

Date/Time: 12/14/2011 1520

Precipitation <96 hours? Yes / No

Flow? Yes / No

pH: : _____ su

Cl2: _____ ppm

Cu: _____ ppm

Phenols: _____ ppm

Deterg: _____ ppm

Turbidity: _____ NTU

Color: # _____

Ammonia: _____ ppm

Oil sheen: Y / N

Surface scum: Y / N

Air Temp: _____ °F

Water Temp: _____ °F

Attach copy of Chain of Custody Record
 (see manual for example form)

Physical Observations (1st Visit):

(circle appropriate descriptors,
 for "other" write in description)

Deposits: none sediments oily other

Odor: none musty sewage rotten eggs solvent chlorine other

Biological: none fish algae other

Signature: John Burton

1st Visit

Use one of the following:

A. Free Fall into container:

Volume: _____ (gal) Time: _____ (sec)

B. Channel/pipe Flow (provide sketch):

Depth: _____ (in) Width: _____ (in)

Velocity: _____ (ft/sec)

C. Discharge estimate: _____ (gpm)

Photograph of Outfall (record roll number and exposure number)



Looking northwest at outfall 51-11.62

Additional Notes (sketch, flow data, observations, specify visit as 1st or 2nd) :

Standing water present but no flow

Land Use (L.U.) Type: Indicate dominant watershed land use as residential, industrial, commercial, agricultural, mixed , unknown

SITE REPORT
DRY WEATHER/ILLCIT DISCHARGE FIELD SCREEN

Structure Name: Open channel 44' wide x 8' deep

Outfall Location Code: 160-187.43

L.U.Type Commercial

Receiving Water: East Maricopa Floodway

Access Instructions: Park at Auto Park Drive and Auto Loop Ave. Walk around fence on golf course.

For discrepancies or omissions only:

Outfall type, shape, material, and dimensions (see manual for codes): 44'W x 8'D channel

Vegetative Growth (circle one): none normal excessive growth inhibited growth

(If no flow but excessive or inhibited growth, schedule additional site visit).

Site Visit Information

Date/Time: 12/22/2011 1310

Precipitation <96 hours? Yes / No

Flow? Yes / No

pH: : _____ su

Cl2: _____ ppm

Cu: _____ ppm

Phenols: _____ ppm

Deterg: _____ ppm

Turbidity: _____ NTU

Color: # _____

Ammonia: _____ ppm

Oil sheen: Y / N

Surface scum: Y / N

Air Temp: _____ °F

Water Temp: _____ °F

Attach copy of Chain of Custody Record
(see manual for example form)

Physical Observations (1st Visit):

(circle appropriate descriptors,
for "other" write in description)

Deposits: none sediments oily other

Odor: none musty sewage rotten eggs solvent chlorine other

Biological: none fish algae other

Signature: John Burtin

1st Visit

Use one of the following:

A. Free Fall into container:

Volume: _____ (gal) Time: _____ (sec)

B. Channel/pipe Flow (provide sketch):

Depth: _____ (in) Width: _____ (in)

Velocity: _____ (ft/sec)

C. Discharge estimate: _____ (gpm)

Photograph of Outfall (record roll number and exposure number)



Looking east at outfall 60-187.43

Additional Notes (sketch, flow data, observations, specify visit as 1st or 2nd) :

None

Land Use (L.U.) Type: Indicate dominant watershed land use as residential, industrial, commercial, agricultural, mixed , unknown

SITE REPORT
DRY WEATHER/ILLCIT DISCHARGE FIELD SCREEN

Structure Name: : 48' wide x 9' deep open channel

Outfall Location Code: 60-189.65

L.U.Type Residential

Receiving Water: Sossman Channel

Access Instructions: Park in lot northwest of Sossman and SR 60, walk east up channel to the end and 100' beyond

For discrepancies or omissions only:

Outfall type, shape, material, and dimensions (see manual for codes): : 48' W x 9'D channel

Vegetative Growth (circle one): none normal excessive growth inhibited growth

(If no flow but excessive or inhibited growth, schedule additional site visit).

Site Visit Information

Date/Time: 12/22/2011 1228

Precipitation <96 hours? Yes / No

Flow? Yes / No

pH: : _____ su

Cl2: _____ ppm

Cu: _____ ppm

Phenols: _____ ppm

Deterg: _____ ppm

Turbidity: _____ NTU

Color: # _____

Ammonia: _____ ppm

Oil sheen: Y / N

Surface scum: Y / N

Air Temp: _____ °F

Water Temp: _____ °F

Attach copy of Chain of Custody Record
(see manual for example form)

Physical Observations (1st Visit):

(circle appropriate descriptors,
for "other" write in description)

Deposits: none sediments oily other

Odor: none musty sewage rotten eggs solvent chlorine other

Biological: none fish algae other

Signature: John Burton

1st Visit

Use one of the following:

A. Free Fall into container:

Volume: _____ (gal) Time: _____ (sec)

B. Channel/pipe Flow (provide sketch):

Depth: _____ (in) Width: _____ (in)

Velocity: _____ (ft/sec)

C. Discharge estimate: _____ (gpm)

Photograph of Outfall (record roll number and exposure number)



Looking southwest at outfall 60-189.65

Additional Notes (sketch, flow data, observations, specify visit as 1st or 2nd) :

None

Land Use (L.U.) Type: Indicate dominant watershed land use as residential, industrial, commercial, agricultural, mixed , unknown

SITE REPORT
DRY WEATHER/ILLCIT DISCHARGE FIELD SCREEN

Structure Name: Open channel with 30" overflow pipe

Outfall Location Code: 87-178.55

L.U.Type Open land

Receiving Water: Salt River

Access Instructions: Park at intersection of McDowell Rd. and SR 87, walk east to outfall

For discrepancies or omissions only:

Outfall type, shape, material, and dimensions (see manual for codes): Open channel/30" pipe

Vegetative Growth (circle one): none normal excessive growth inhibited growth

(If no flow but excessive or inhibited growth, schedule additional site visit).

Site Visit Information

Date/Time: 12/22/2011 1410

Precipitation <96 hours? Yes / No

Flow? Yes / No

pH: :

Cl2: _____ ppm

Cu: _____ ppm

Phenols: _____ ppm

Deterg: _____ ppm

Turbidity: _____ NTU

Color: # Clear

Ammonia: _____ ppm

Oil sheen: Y / N

Surface scum: Y / N

Air Temp:

Water Temp:

Attach copy of Chain of Custody Record
(see manual for example form)

Physical Observations (1st Visit):

(circle appropriate descriptors,
for "other" write in description)

Deposits: none sediments oily other

Odor: none musty sewage rotten eggs solvent chlorine other

Biological: none fish algae other

Signature: John Burton

1st Visit

Use one of the following:

A. Free Fall into container:

Volume: _____ (gal) Time: _____ (sec)

B. Channel/pipe Flow (provide sketch):

Depth: _____ (in) Width: _____ (in)

Velocity: _____ (ft/sec)

C. Discharge estimate: _____ (gpm)

Photograph of Outfall (record roll number and exposure number)



Looking north at open canal/ Outfall 87-178.55

Additional Notes (sketch, flow data, observations, specify visit as 1st or 2nd) :



30" CMP discharges water to the Salt River when water level behind earthen dam reaches the appropriate level.

Land Use (L.U.) Type: Indicate dominant watershed land use as residential, industrial, commercial, agricultural, mixed , unknown

**SITE REPORT
DRY WEATHER/ILLCIT DISCHARGE FIELD SCREEN**

Structure Name: Open Channel

Outfall Location Code: 101-6.05

L.U.Type Residential

Receiving Water: New River

Access Instructions: North on 107th Ave off of Camelback, north to the end of the Road, walk west.

For discrepancies or omissions only:

Outfall type, shape, material, and dimensions (see manual for codes): 102" TW x 12"D

Vegetative Growth (circle one): none normal excessive growth inhibited growth

(If no flow but excessive or inhibited growth, schedule additional site visit).

Site Visit Information

Date/Time: 12/15/2011 1248

Precipitation <96 hours? Yes / No

Flow? Yes No

pH: : _____ su

Cl2: _____ ppm

Cu: _____ ppm

Phenols: _____ ppm

Deterg: _____ ppm

Turbidity: _____ NTU

Color: # _____

Ammonia: _____ ppm

Oil sheen: Y / N

Surface scum: Y / N

Air Temp: _____ °F

Water Temp: _____ °F

Attach copy of Chain of Custody Record
(see manual for example form)

Physical Observations (1st Visit):

(circle appropriate descriptors,
for "other" write in description)

Deposits: none sediments oily other

Odor: none musty sewage rotten eggs solvent chlorine other

Biological: none fish algae other

Signature: John Banton

1st Visit

Use one of the following:

A. Free Fall into container:

Volume: _____ (gal) Time: _____ (sec)

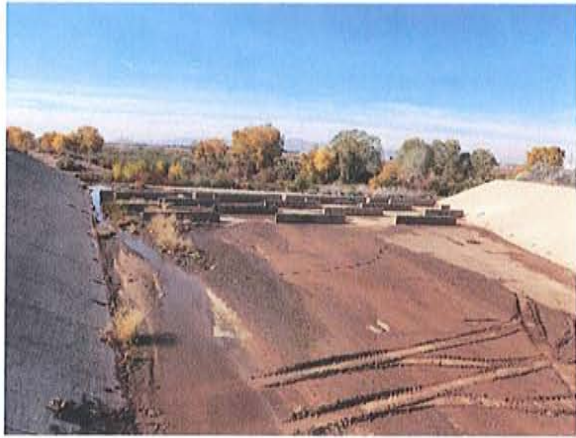
B. Channel/pipe Flow (provide sketch):

Depth: _____ (in) Width: _____ (in)

Velocity: _____ (ft/sec)

C. Discharge estimate: _____ (gpm)

Photograph of Outfall (record roll number and exposure number)



Looking west at outfall 101-6.05

Additional Notes (sketch, flow data, observations, specify visit as 1st or 2nd) :

None

Land Use (L.U.) Type: Indicate dominant watershed land use as residential, industrial, commercial, agricultural, mixed , unknown

SITE REPORT
DRY WEATHER/ILLCIT DISCHARGE FIELD SCREEN

Structure Name: Open channel 82' wide x 8' deep

Outfall Location Code: 101-7.76

L.U.Type Undeveloped

Receiving Water: New River

Access Instructions: Park south of 99th and Northern, walk west.

For discrepancies or omissions only:

Outfall type, shape, material, and dimensions (see manual for codes): 82' W x 8' D open channel

Vegetative Growth (circle one): none normal excessive growth inhibited growth

(If no flow but excessive or inhibited growth, schedule additional site visit).

Site Visit Information

Date/Time: 12/15/2011 1325

Precipitation <96 hours? Yes / No

Flow? Yes / No Very low flow.

pH: : 6.9 su

Cl2: — ppm

Cu: — ppm

Phenols: — ppm

Deterg: — ppm

Turbidity: — NTU

Color: # Clear

Ammonia: — ppm

Oil sheen: Y / N

Surface scum: Y / N

Air Temp: 71°F

Water Temp: 64°F

Attach copy of Chain of Custody Record
 (see manual for example form)

Physical Observations (1st Visit):

(circle appropriate descriptors,
 for "other" write in description)

Deposits: none sediments oily other

Odor: none musty sewage rotten eggs solvent chlorine other

Biological: none fish algae other

Signature: Johy Bunter

1st Visit

Use one of the following:

A. Free Fall into container:

Volume: _____ (gal) Time: _____ (sec)

B. Channel/pipe Flow (provide sketch):

Depth: _____ (in) Width: _____ (in)

Velocity: _____ (ft/sec)

C. Discharge estimate: 0.5(gpm)

Photograph of Outfall (record roll number and exposure number)



Looking southeast at outfall 101-7.76

Additional Notes (sketch, flow data, observations, specify visit as 1st or 2nd) :

Flow is minor and identified as trickle

SITE REPORT
DRY WEATHER/ILLCIT DISCHARGE FIELD SCREEN

Structure Name: Open Channel, 65' W X 12' D

Outfall Location Code: 101-10.84

L.U.Type Undeveloped

Receiving Water: New River

Access Instructions: North at 95th Ave off of Peoria, park at the end of the road walk north

For discrepancies or omissions only:

Outfall type, shape, material, and dimensions: Open Channel, 65' W X 12' D

Vegetative Growth (circle one): none normal excessive growth inhibited growth

(If no flow but excessive or inhibited growth, schedule additional site visit).

Site Visit Information

Date/Time: 12/14/2011 1400

Precipitation <96 hours? Yes / No

Flow? Yes / No Est. 2 gallons /minute

pH: 7.2su

Color: # Clear

Cl2: — ppm

Ammonia: — ppm

Cu: — ppm

Oil sheen: Y / (N)

Phenols: — ppm

Surface scum: Y / (N)

Deterg: — ppm

Air Temp: 72°F

Turbidity: — NTU

Water Temp: 63°F

Attach copy of Chain of Custody Record
(see manual for example form)

Physical Observations (1st Visit):

(circle appropriate descriptors,
for "other" write in description)

Deposits: (none) sediments oily other

Odor: (none) musty sewage rotten eggs solvent chlorine other

Biological: (none) fish algae other

Signature: John Burton

1st Visit

Use one of the following:

A. Free Fall into container:

Volume: _____ (gal) Time: _____ (sec)

B. Channel/pipe Flow (provide sketch):

Depth: _____ (in) Width: _____ (in)

Velocity: _____ (ft/sec)

C. Discharge estimate: 2(gpm)

Photograph of Outfall (record roll number and exposure number)



Looking north at outfall 101-10.84

Additional Notes (sketch, flow data, observations, specify visit as 1st or 2nd) :

Flow from outfall estimated at 2 gallons /minute

Land Use (L.U.) Type: Indicate dominant watershed land use as residential, industrial, commercial, agricultural, mixed , unknown

**SITE REPORT
DRY WEATHER/ILLCIT DISCHARGE FIELD SCREEN**

Structure Name: 42" dual circular pipe

Outfall Location Code: 101-13.44

L.U.Type Municipal

Receiving Water: Skunk Creek

Access Instructions: Park in far east parking lot of Rio Vista Recreation Park and walk.

For discrepancies or omissions only:

Outfall type, shape, material, and dimensions (see manual for codes): 42" dual circular pipe

Vegetative Growth (circle one): none normal excessive growth inhibited growth

(If no flow but excessive or inhibited growth, schedule additional site visit).

Site Visit Information

Date/Time: 12/19/2011 1120

Precipitation <96 hours? Yes / No

Flow? Yes No

pH: _____ su

Cl2: _____ ppm

Cu: _____ ppm

Phenols: _____ ppm

Deterg: _____ ppm

Turbidity: _____ NTU

Color: # _____

Ammonia: _____ ppm

Oil sheen: Y / N

Surface scum: Y / N

Air Temp: _____ °F

Water Temp: _____ °F

Attach copy of Chain of Custody Record
(see manual for example form)

Physical Observations (1st Visit):

(circle appropriate descriptors,
for "other" write in description)

Deposits: none sediments oily other

Odor: none musty sewage rotten eggs solvent chlorine other

Biological: none fish algae other

Signature: John Burtin

1st Visit

Use one of the following:

A. Free Fall into container:

Volume: _____ (gal) Time: _____ (sec)

B. Channel/pipe Flow (provide sketch):

Depth: _____ (in) Width: _____ (in)

Velocity: _____ (ft/sec)

C. Discharge estimate: _____ (gpm)

Photograph of Outfall (record roll number and exposure number)



Looking south at outfall 101-13.44

Additional Notes (sketch, flow data, observations, specify visit as 1st or 2nd) :

None

Land Use (L.U.) Type: Indicate dominant watershed land use as residential, industrial, commercial, agricultural, mixed , unknown

SITE REPORT
DRY WEATHER/ILLCIT DISCHARGE FIELD SCREEN

Structure Name: Open channel 45' W x 5' D

Outfall Location Code: 101-11.85

L.U.Type Commercial

Receiving Water: New River

Access Instructions: South on 88th Ave off of Thunderbird walk south to outfall on trail

For discrepancies or omissions only:

Outfall type, shape, material, and dimensions (see manual for codes): Open channel 45' W x 5' D

Vegetative Growth (circle one): none normal excessive growth inhibited growth

(If no flow but excessive or inhibited growth, schedule additional site visit).

Site Visit Information

Date/Time: 1/10/2012 1040

Precipitation <96 hours? Yes / No

Flow? Yes / No

pH: N/A su

Cl2: N/A ppm

Cu: N/A ppm

Phenols: N/A ppm

Deterg: N/A ppm

Turbidity: N/A NTU

Color: # N/A

Ammonia: N/A ppm

Oil sheen: N/A

Surface scum: N/A

Air Temp: N/A °F

Water Temp: N/A °F

Attach copy of Chain of Custody Record
 (see manual for example form)

Physical Observations (1st Visit):

(circle appropriate descriptors,
 for "other" write in description)

Deposits: none sediments oily other

Odor: none musty sewage rotten eggs solvent chlorine other

Biological: none fish algae other

Signature: John Buxton

1st Visit

Use one of the following:

A. Free Fall into container:

Volume: _____ (gal) Time: _____ (sec)

B. Channel/pipe Flow (provide sketch):

Depth: _____ (in) Width: _____ (in)

Velocity: _____ (ft/sec)

C. Discharge estimate: _____ (gpm)

Photograph of Outfall



Outfall 101-11.85 with debris present

Additional Notes

None

Land Use (L.U.) Type: Indicate dominant watershed land use as residential, industrial, commercial, agricultural, mixed , unknown

**SITE REPORT
DRY WEATHER/ILLCIT DISCHARGE FIELD SCREEN**

Structure Name: 22'W x 4'D Open Channel

Outfall Location Code: 101-13.68

L.U.Type Commercial

Receiving Water: Skunk Creek

Access Instructions: Park in lot northeast of 101 and Skunk Creek.

For discrepancies or omissions only:

Outfall type, shape, material, and dimensions (see manual for codes): 22'W x 4'D Open Channel

Vegetative Growth (circle one): none normal excessive growth inhibited growth

(If no flow but excessive or inhibited growth, schedule additional site visit).

Site Visit Information

Date/Time: 12/19/2011 1150

Precipitation <96 hours? Yes / No

Flow? Yes No

pH: : _____ su

Cl2: _____ ppm

Cu: _____ ppm

Phenols: _____ ppm

Deterg: _____ ppm

Turbidity: _____ NTU

Color: # _____

Ammonia: _____ ppm

Oil sheen: Y / N

Surface scum: Y / N

Air Temp: _____ °F

Water Temp: _____ °F

Attach copy of Chain of Custody Record
(see manual for example form)

Physical Observations (1st Visit):

(circle appropriate descriptors,
for "other" write in description)

Deposits: none sediments oily other

Odor: none musty sewage rotten eggs solvent chlorine other

Biological: none fish algae other

Signature: John Bunter

1st Visit

Use one of the following:

A. Free Fall into container:

Volume: _____ (gal) Time: _____ (sec)

B. Channel/pipe Flow (provide sketch):

Depth: _____ (in) Width: _____ (in)

Velocity: _____ (ft/sec)

C. Discharge estimate: _____ (gpm)

Photograph of Outfall (record roll number and exposure number)



Outfall 101-13.68 - looking north at outfall on north bank of Skunk Creek

Additional Notes (sketch, flow data, observations, specify visit as 1st or 2nd) :



Debris at base of outfall (looking south from outfall)

Land Use (L.U.) Type: Indicate dominant watershed land use as residential, industrial, commercial, agricultural, mixed , unknown

SITE REPORT
DRY WEATHER/ILLCIT DISCHARGE FIELD SCREEN

Structure Name: 28' W x 10D Open Channel

Outfall Location Code: 101-14.38

L.U.Type Commercial

Receiving Water: New River

Access Instructions: Park in parking lot west side of New River, south of Bell Rd.

For discrepancies or omissions only:

Outfall type, shape, material, and dimensions (see manual for codes): 28' W x 10D Open Channel

Vegetative Growth (circle one): none normal excessive growth inhibited growth

(If no flow but excessive or inhibited growth, schedule additional site visit).

Site Visit Information

Date/Time: 12/19/2011 1225

Precipitation <96 hours? Yes / No

Flow? Yes / No

pH: : _____ su

Cl2: _____ ppm

Cu: _____ ppm

Phenols: _____ ppm

Deterg: _____ ppm

Turbidity: _____ NTU

Color: # _____

Ammonia: _____ ppm

Oil sheen: Y / N

Surface scum: Y / N

Air Temp: _____ °F

Water Temp: _____ °F

Attach copy of Chain of Custody Record
(see manual for example form)

Physical Observations (1st Visit):

(circle appropriate descriptors,
for "other" write in description)

Deposits: none sediments oily other

Odor: none musty sewage rotten eggs solvent chlorine other

Biological: none fish algae other

Signature: John Bunter

1st Visit

Use one of the following:

A. Free Fall into container:

Volume: _____ (gal) Time: _____ (sec)

B. Channel/pipe Flow (provide sketch):

Depth: _____ (in) Width: _____ (in)

Velocity: _____ (ft/sec)

C. Discharge estimate: _____ (gpm)

Photograph of Outfall (record roll number and exposure number)



Outfall 101-14.38 - Looking southwest into New River

Additional Notes (sketch, flow data, observations, specify visit as 1st or 2nd) :

None

Land Use (L.U.) Type: Indicate dominant watershed land use as residential, industrial, commercial, agricultural, mixed , unknown

SITE REPORT
DRY WEATHER/ILLCIT DISCHARGE FIELD SCREEN

Structure Name: 48" circular pipe

Outfall Location Code: 101-15.18

L.U.Type undeveloped

Receiving Water: New River

Access Instructions: Park on street at 83rd Drive, walk north through runoff channel.

For discrepancies or omissions only:

Outfall type, shape, material, and dimensions (see manual for codes): 48" circular pipe

Vegetative Growth (circle one): none normal excessive growth inhibited growth

(If no flow but excessive or inhibited growth, schedule additional site visit).

Site Visit Information

Date/Time: 12/19/11 1305

Precipitation <96 hours? Yes / No

Flow? Yes / No

pH: : _____ su

Cl2: _____ ppm

Cu: _____ ppm

Phenols: _____ ppm

Deterg: _____ ppm

Turbidity: _____ NTU

Color: # _____

Ammonia: _____ ppm

Oil sheen: Y / N

Surface scum: Y / N

Air Temp: _____ °F

Water Temp: _____ °F

Attach copy of Chain of Custody Record
(see manual for example form)

Physical Observations (1st Visit):

(circle appropriate descriptors,
for "other" write in description)

Deposits: none sediments oily other

Odor: none musty sewage rotten eggs solvent chlorine other

Biological: none fish algae other

Signature: Johannes Buxton

1st Visit

Use one of the following:

A. Free Fall into container:

Volume: _____ (gal) Time: _____ (sec)

B. Channel/pipe Flow (provide sketch):

Depth: _____ (in) Width: _____ (in)

Velocity: _____ (ft/sec)

C. Discharge estimate: _____ (gpm)

Photograph of Outfall (record roll number and exposure number)



Looking east into outfall 101-15.18 east bank of New River

Additional Notes (sketch, flow data, observations, specify visit as 1st or 2nd) :

None

Land Use (L.U.) Type: Indicate dominant watershed land use as residential, industrial, commercial, agricultural, mixed , unknown

SITE REPORT
DRY WEATHER/ILLCIT DISCHARGE FIELD SCREEN

Structure Name: 48" circular pipe

Outfall Location Code: 101-16.31

L.U.Type Residential

Receiving Water: New River

Access Instructions: Park at 81st Ave and W Marco Polo, walk east to river bed then south to outfall.

For discrepancies or omissions only:

Outfall type, shape, material, and dimensions (see manual for codes): 48" circular pipe

Vegetative Growth (circle one): none normal excessive growth inhibited growth

(If no flow but excessive or inhibited growth, schedule additional site visit).

Site Visit Information

Date/Time: 12/19/2011 1400

Precipitation <96 hours? Yes / No

Flow? Yes / No

pH: : _____ su

Cl2: _____ ppm

Cu: _____ ppm

Phenols: _____ ppm

Deterg: _____ ppm

Turbidity: _____ NTU

Color: # _____

Ammonia: _____ ppm

Oil sheen: Y / N

Surface scum: Y / N

Air Temp: _____ °F

Water Temp: _____ °F

Attach copy of Chain of Custody Record
(see manual for example form)

Physical Observations (1st Visit):

(circle appropriate descriptors,
for "other" write in description)

Deposits: none sediments oily other

Odor: none musty sewage rotten eggs solvent chlorine other

Biological: none fish algae other

Signature: John Buntis

1st Visit

Use one of the following:

A. Free Fall into container:

Volume: _____ (gal) Time: _____ (sec)

B. Channel/pipe Flow (provide sketch):

Depth: _____ (in) Width: _____ (in)

Velocity: _____ (ft/sec)

C. Discharge estimate: _____ (gpm)

Photograph of Outfall (record roll number and exposure number)



Outfall 101-16.31 - Looking east into east bank of New River

Additional Notes (sketch, flow data, observations, specify visit as 1st or 2nd):

None

Land Use (L.U.) Type: Indicate dominant watershed land use as residential, industrial, commercial, agricultural, mixed, unknown

SITE REPORT
DRY WEATHER/ILLCIT DISCHARGE FIELD SCREEN

Structure Name: 48" Circular Pipe

Outfall Location Code: 101-16.62

L.U.Type Residential

Receiving Water: New River

Access Instructions: Park at 81st Ave and Marco Polo walk east to outfall on east bank of New River.

For discrepancies or omissions only:

Outfall type, shape, material, and dimensions (see manual for codes): 48" Circular Pipe

Vegetative Growth (circle one): none normal excessive growth inhibited growth

(If no flow but excessive or inhibited growth, schedule additional site visit).

Site Visit Information

Date/Time: 12/19/2011 1450

Precipitation <96 hours? Yes / No

Flow? Yes / No

pH: : _____ su

Cl2: _____ ppm

Cu: _____ ppm

Phenols: _____ ppm

Deterg: _____ ppm

Turbidity: _____ NTU

Color: # _____

Ammonia: _____ ppm

Oil sheen: Y / N

Surface scum: Y / N

Air Temp: _____ °F

Water Temp: _____ °F

Attach copy of Chain of Custody Record
 (see manual for example form)

Physical Observations (1st Visit):

(circle appropriate descriptors,
 for "other" write in description)

Deposits: none sediments oily other

Odor: none musty sewage rotten eggs solvent chlorine other

Biological: none fish algae other

Signature: John Bunter

1st Visit

Use one of the following:

A. Free Fall into container:

Volume: _____ (gal) Time: _____ (sec)

B. Channel/pipe Flow (provide sketch):

Depth: _____ (in) Width: _____ (in)

Velocity: _____ (ft/sec)

C. Discharge estimate: _____ (gpm)

Photograph of Outfall (record roll number and exposure number)



Outfall 101-16.62 - Looking east into east bank of New River

Additional Notes (sketch, flow data, observations, specify visit as 1st or 2nd):

Sediment building up in outfall

Land Use (L.U.) Type: Indicate dominant watershed land use as residential, industrial, commercial, agricultural, mixed, unknown

SITE REPORT
DRY WEATHER/ILLCIT DISCHARGE FIELD SCREEN

Structure Name: 56' W x 11'D Open Channel

Outfall Location Code: 101-16.74

L.U.Type Residential

Receiving Water: New River

Access Instructions: Park at 81st Ave and Marco Polo walk east to outfall on east bank of New River.

For discrepancies or omissions only:

Outfall type, shape, material, and dimensions: 56' W x 11'D Open Channel

Vegetative Growth (circle one): none normal excessive growth inhibited growth

(If no flow but excessive or inhibited growth, schedule additional site visit).

Site Visit Information

Date/Time: 12/19/2011 1430

Precipitation <96 hours? Yes / No

Flow? Yes / No

pH: : _____ su

Cl2: _____ ppm

Cu: _____ ppm

Phenols: _____ ppm

Deterg: _____ ppm

Turbidity: _____ NTU

Color: # _____

Ammonia: _____ ppm

Oil sheen: Y / N

Surface scum: Y / N

Air Temp: _____ °F

Water Temp: _____ °F

Attach copy of Chain of Custody Record
(see manual for example form)

Physical Observations (1st Visit):

(circle appropriate descriptors,
for "other" write in description)

Deposits: none sediments oily other

Odor: none musty sewage rotten eggs solvent chlorine other

Biological: none fish algae other

Signature: John Bunter

1st Visit

Use one of the following:

A. Free Fall into container:

Volume: _____ (gal) Time: _____ (sec)

B. Channel/pipe Flow (provide sketch):

Depth: _____ (in) Width: _____ (in)

Velocity: _____ (ft/sec)

C. Discharge estimate: _____ (gpm)

Photograph of Outfall (record roll number and exposure number)



Outfall 101-16.74 - Looking southeast towards east bank of New River

Additional Notes (sketch, flow data, observations, specify visit as 1st or 2nd) :

None

Land Use (L.U.) Type: Indicate dominant watershed land use as residential, industrial, commercial, agricultural, mixed , unknown

SITE REPORT
DRY WEATHER/ILLCIT DISCHARGE FIELD SCREEN

Structure Name: 36" Circular Pipe

Outfall Location Code: 101-20.19

L.U.Type Residential

Receiving Water: Skunk Creek

Access Instructions: Park at 51st Ave and Kerry Lane, walk north up 51st Ave

For discrepancies or omissions only:

Outfall type, shape, material, and dimensions (see manual for codes): 36" Circular Pipe

Vegetative Growth (circle one): none normal excessive growth inhibited growth

(If no flow but excessive or inhibited growth, schedule additional site visit).

Site Visit Information

Date/Time: 12/19/2011 1520

Precipitation <96 hours? Yes / No

Flow? Yes / No

pH: : _____ su

Cl2: _____ ppm

Cu: _____ ppm

Phenols: _____ ppm

Deterg: _____ ppm

Turbidity: _____ NTU

Color: # _____

Ammonia: _____ ppm

Oil sheen: Y / N

Surface scum: Y / N

Air Temp: _____ °F

Water Temp: _____ °F

Attach copy of Chain of Custody Record
(see manual for example form)

Physical Observations (1st Visit):

(circle appropriate descriptors,
for "other" write in description)

Deposits: none sediments oily other

Odor: none musty sewage rotten eggs solvent chlorine other

Biological: none fish algae other

Signature: John Burton

1st Visit

Use one of the following:

A. Free Fall into container:

Volume: _____ (gal) Time: _____ (sec)

B. Channel/pipe Flow (provide sketch):

Depth: _____ (in) Width: _____ (in)

Velocity: _____ (ft/sec)

C. Discharge estimate: _____ (gpm)

Photograph of Outfall (record roll number and exposure number)



Outfall 101-20.19 - Looking North towards River Bank

Additional Notes (sketch, flow data, observations, specify visit as 1st or 2nd) :

None

Land Use (L.U.) Type: Indicate dominant watershed land use as residential, industrial, commercial, agricultural, mixed , unknown

SITE REPORT
DRY WEATHER/ILLCIT DISCHARGE FIELD SCREEN

Structure Name: 20' W x 2' D Open Channel

Outfall Location Code: 101-21.23A

L.U.Type Residential and undeveloped

Receiving Water: Skunk Creek

Access Instructions: North side of 101, park on east side of Skunk Creek

For discrepancies or omissions only:

Outfall type, shape, material, and dimensions (see manual for codes): 20' W x 2' D Open Channel

Vegetative Growth (circle one): none normal excessive growth inhibited growth

(If no flow but excessive or inhibited growth, schedule additional site visit).

Site Visit Information

Date/Time: 12/20/2011 1020

Precipitation <96 hours? Yes / No

Flow? Yes / No

pH: : _____ su

Cl2: _____ ppm

Cu: _____ ppm

Phenols: _____ ppm

Deterg: _____ ppm

Turbidity: _____ NTU

Color: # _____

Ammonia: _____ ppm

Oil sheen: Y / N

Surface scum: Y / N

Air Temp: _____ °F

Water Temp: _____ °F

Attach copy of Chain of Custody Record
(see manual for example form)

Physical Observations (1st Visit):

(circle appropriate descriptors,
for "other" write in description)

Deposits: none sediments oily other

Odor: none musty sewage rotten eggs solvent chlorine other

Biological: none fish algae other

Signature: John Burton

1st Visit

Use one of the following:

A. Free Fall into container:

Volume: _____ (gal) Time: _____ (sec)

B. Channel/pipe Flow (provide sketch):

Depth: _____ (in) Width: _____ (in)

Velocity: _____ (ft/sec)

C. Discharge estimate: _____ (gpm)

Photograph of Outfall (record roll number and exposure number)



Outfall 101-21.23A – entering Skunk Creek

Additional Notes (sketch, flow data, observations, specify visit as 1st or 2nd) :

None

Land Use (L.U.) Type: Indicate dominant watershed land use as residential, industrial, commercial, agricultural, mixed , unknown

SITE REPORT
DRY WEATHER/ILLCIT DISCHARGE FIELD SCREEN

Structure Name: 42" Circular Pipe

Outfall Location Code: 101-21.23B

L.U.Type Residential and undeveloped

Receiving Water: Skunk Creek

Access Instructions: North side of 101 on Beardsley Rd, west from 35th Ave.

For discrepancies or omissions only:

Outfall type, shape, material, and dimensions (see manual for codes): 42" Circular Pipe

Vegetative Growth (circle one): none normal excessive growth inhibited growth

(If no flow but excessive or inhibited growth, schedule additional site visit).

Site Visit Information

Date/Time: 12/20/2011 1040

Precipitation <96 hours? Yes / No

Flow? Yes No

pH: : _____ su

Cl2: _____ ppm

Cu: _____ ppm

Phenols: _____ ppm

Deterg: _____ ppm

Turbidity: _____ NTU

Color: # _____

Ammonia: _____ ppm

Oil sheen: Y / N

Surface scum: Y / N

Air Temp: _____ °F

Water Temp: _____ °F

Attach copy of Chain of Custody Record
(see manual for example form)

Physical Observations (1st Visit):

(circle appropriate descriptors,
for "other" write in description)

Deposits: none sediments oily other

Odor: none musty sewage rotten eggs solvent chlorine other

Biological: none fish algae other

Signature: John Bunter

1st Visit

Use one of the following:

A. Free Fall into container:

Volume: _____ (gal) Time: _____ (sec)

B. Channel/pipe Flow (provide sketch):

Depth: _____ (in) Width: _____ (in)

Velocity: _____ (ft/sec)

C. Discharge estimate: _____ (gpm)

Photograph of Outfall (record roll number and exposure number)



Outfall 101-21.23B - Looking at outfall on east side of underpass.

Additional Notes (sketch, flow data, observations, specify visit as 1st or 2nd):

None

Land Use (L.U.) Type: Indicate dominant watershed land use as residential, industrial, commercial, agricultural, mixed, unknown

**SITE REPORT
DRY WEATHER/ILLCIT DISCHARGE FIELD SCREEN**

Structure Name: 96" Circular Pipe

Outfall Location Code: 101-21.83

L.U.Type Residential

Receiving Water: Scatter Wash

Access Instructions: Eastside of Scatter Wash, south of 101 and 1/2 mile west of 35th Ave.

For discrepancies or omissions only:

Outfall type, shape, material, and dimensions (see manual for codes): 96" Circular Pipe

Vegetative Growth (circle one): none normal excessive growth inhibited growth

(If no flow but excessive or inhibited growth, schedule additional site visit).

Site Visit Information

Date/Time: 12/20/2012 1120

Precipitation <96 hours? Yes / No

Flow? Yes / No

pH: _____ su

Cl2: _____ ppm

Cu: _____ ppm

Phenols: _____ ppm

Deterg: _____ ppm

Turbidity: _____ NTU

Color: # _____

Ammonia: _____ ppm

Oil sheen: Y / N

Surface scum: Y / N

Air Temp: _____ °F

Water Temp: _____ °F

Attach copy of Chain of Custody Record
(see manual for example form)

Physical Observations (1st Visit):

(circle appropriate descriptors,
for "other" write in description)

Deposits: none sediments oily other

Odor: none musty sewage rotten eggs solvent chlorine other

Biological: none fish algae other

Signature: John Burtus

1st Visit

Use one of the following:

A. Free Fall into container:

Volume: _____ (gal) Time: _____ (sec)

B. Channel/pipe Flow (provide sketch):

Depth: _____ (in) Width: _____ (in)

Velocity: _____ (ft/sec)

C. Discharge estimate: _____ (gpm)

Photograph of Outfall (record roll number and exposure number)



Outfall 101-21.83 – Along east bank of Scatter Wash

Additional Notes (sketch, flow data, observations, specify visit as 1st or 2nd) :

None

Land Use (L.U.) Type: Indicate dominant watershed land use as residential, industrial, commercial, agricultural, mixed , unknown

SITE REPORT
DRY WEATHER/ILLCIT DISCHARGE FIELD SCREEN

Structure Name: 32'W x 8'D Open Channel

Outfall Location Code: 101-21.87A

L.U.Type Residential

Receiving Water: Scatter Wash

Access Instructions: North of 101 on Beardsley 1/2 way between 35th and 43rd Ave.

For discrepancies or omissions only:

Outfall type, shape, material, and dimensions (see manual for codes): 32'W x 8'D Open Channel

Vegetative Growth (circle one): none normal excessive growth inhibited growth

(If no flow but excessive or inhibited growth, schedule additional site visit).

Site Visit Information

Date/Time: 12/20/2011 0920

Precipitation <96 hours? Yes / No

Flow? Yes / No

pH: : _____ su

Cl₂: _____ ppm

Cu: _____ ppm

Phenols: _____ ppm

Deterg: _____ ppm

Turbidity: _____ NTU

Color: # _____

Ammonia: _____ ppm

Oil sheen: Y / N

Surface scum: Y / N

Air Temp: _____ °F

Water Temp: _____ °F

Attach copy of Chain of Custody Record
(see manual for example form)

Physical Observations (1st Visit):

(circle appropriate descriptors,
for "other" write in description)

Deposits: none sediments oily other

Odor: none musty sewage rotten eggs solvent chlorine other

Biological: none fish algae other

Signature: John Butler

1st Visit

Use one of the following:

A. Free Fall into container:

Volume: _____ (gal) Time: _____ (sec)

B. Channel/pipe Flow (provide sketch):

Depth: _____ (in) Width: _____ (in)

Velocity: _____ (ft/sec)

C. Discharge estimate: _____ (gpm)

Photograph of Outfall (record roll number and exposure number)



Outfall 101-21.87A - Looking east towards outfall

Additional Notes (sketch, flow data, observations, specify visit as 1st or 2nd) :

Miscellaneous debris in Scatter Wash

Land Use (L.U.) Type: Indicate dominant watershed land use as residential, industrial, commercial, agricultural, mixed , unknown

**SITE REPORT
DRY WEATHER/ILLCIT DISCHARGE FIELD SCREEN**

Structure Name: 32" Circular Pipe

Outfall Location Code: 101-20.87B

L.U.Type Commercial

Receiving Water: Scatter Wash

Access Instructions: of 101 on Beardsley 1/2 way between 35th and 43rd Ave.

For discrepancies or omissions only:

Outfall type, shape, material, and dimensions (see manual for codes): 32" Circular Pipe

Vegetative Growth (circle one): none normal excessive growth inhibited growth

(If no flow but excessive or inhibited growth, schedule additional site visit).

Site Visit Information

Date/Time: 12/20/2011 0940

Precipitation <96 hours? Yes / No

Flow? Yes / No

pH: N/A su

Cl2: N/A ppm

Cu: N/A ppm

Phenols: N/A ppm

Deterg: N/A ppm

Turbidity: N/A NTU

Color: # N/A

Ammonia: N/A ppm

Oil sheen: N/A

Surface scum: N/A

Air Temp: N/A °F

Water Temp: N/A °F

Attach copy of Chain of Custody Record
(see manual for example form)

Physical Observations (1st Visit):

(circle appropriate descriptors,
for "other" write in description)

Deposits: none sediments oily other

Odor: none musty sewage rotten eggs solvent chlorine other

Biological: none fish algae other

Signature: John Burt

1st Visit

Use one of the following:

A. Free Fall into container:

Volume: _____ (gal) Time: _____ (sec)

B. Channel/pipe Flow (provide sketch):

Depth: _____ (in) Width: _____ (in)

Velocity: _____ (ft/sec)

C. Discharge estimate: _____ (gpm)

Photograph of Outfall (record roll number and exposure number)



Outfall 101-21.87B - Looking east at outfall on east bank of Scatter Wash

Additional Notes (sketch, flow data, observations, specify visit as 1st or 2nd) :

Excess debris at outfall

Land Use (L.U.) Type: Indicate dominant watershed land use as residential, industrial, commercial, agricultural, mixed , unknown

SITE REPORT
DRY WEATHER/ILLCIT DISCHARGE FIELD SCREEN

Structure Name: 2 - 6'x 6' Box culvert

Outfall Location Code: 101-25.92

L.U.Type Commercial

Receiving Water: Cave Creek

Access Instructions: East on Beardsley (south side of 101) east bank of Cave Creek Park in parking lot to the south.

For discrepancies or omissions only:

Outfall type, shape, material, and dimensions (see manual for codes): 2- 6'x6' Box culvert

Vegetative Growth (circle one): none normal excessive growth inhibited growth

(If no flow but excessive or inhibited growth, schedule additional site visit).

Site Visit Information

Date/Time: 12/20/2011 1150

Precipitation <96 hours? Yes / No

Flow? Yes / No

pH: : _____ su

Cl₂: _____ ppm

Cu: _____ ppm

Phenols: _____ ppm

Deterg: _____ ppm

Turbidity: _____ NTU

Color: # _____

Ammonia: _____ ppm

Oil sheen: Y / N

Surface scum: Y / N

Air Temp: _____ °F

Water Temp: _____ °F

Attach copy of Chain of Custody Record
(see manual for example form)

Physical Observations (1st Visit):

(circle appropriate descriptors,
for "other" write in description)

Deposits: none sediments oily other

Odor: none musty sewage rotten eggs solvent chlorine other

Biological: none fish algae other

Signature: John Banta

1st Visit

Use one of the following:

A. Free Fall into container:

Volume: _____ (gal) Time: _____ (sec)

B. Channel/pipe Flow (provide sketch):

Depth: _____ (in) Width: _____ (in)

Velocity: _____ (ft/sec)

C. Discharge estimate: _____ (gpm)

Photograph of Outfall (record roll number and exposure number)



Outfall 101-25.92 - Looking east into the outfall

Additional Notes (sketch, flow data, observations, specify visit as 1st or 2nd) :

Heavy tagging of outfall

Land Use (L.U.) Type: Indicate dominant watershed land use as residential, industrial, commercial, agricultural, mixed , unknown

SITE REPORT
DRY WEATHER/ILLCIT DISCHARGE FIELD SCREEN

Structure Name: 2 - 10' x 10' box culverts

Outfall Location Code: 101-50.87

L.U.Type Agriculture

Receiving Water: Salt River

Access Instructions: Take McDowell exit north off of 101, drive south on east side of open canal.

For discrepancies or omissions only:

Outfall type, shape, material, and dimensions (see manual for codes): 2 - 10' x 10' box culverts

Vegetative Growth (circle one): none normal excessive growth inhibited growth

(If no flow but excessive or inhibited growth, schedule additional site visit).

Site Visit Information

Date/Time: 1/3/2012 1330

Precipitation <96 hours? Yes / No

Flow? Yes / No

pH: _____ su

Cl₂: _____ ppm

Cu: _____ ppm

Phenols: _____ ppm

Deterg: _____ ppm

Turbidity: _____ NTU

Color: # _____

Ammonia: _____ ppm

Oil sheen: Y / N

Surface scum: Y / N

Air Temp: _____ °F

Water Temp: _____ °F

Attach copy of Chain of Custody Record
(see manual for example form)

Physical Observations (1st Visit):

(circle appropriate descriptors,
for "other" write in description)

Deposits: none sediments oily other

Odor: none musty sewage rotten eggs solvent chlorine other

Biological: none fish algae other

Signature: John Burton

1st Visit

Use one of the following:

A. Free Fall into container:

Volume: _____ (gal) Time: _____ (sec)

B. Channel/pipe Flow (provide sketch):

Depth: _____ (in) Width: _____ (in)

Velocity: _____ (ft/sec)

C. Discharge estimate: _____ (gpm)

Photograph of Outfall



Outfall 101-50.87 - Looking northeast toward outfall

Additional Notes:

None

Land Use (L.U.) Type: Indicate dominant watershed land use as residential, industrial, commercial, agricultural, mixed , unknown

**SITE REPORT
DRY WEATHER/ILLCIT DISCHARGE FIELD SCREEN**

Structure Name: 3 - 12' x 12' box culverts (Price Drain)

Outfall Location Code: 101-51.07

L.U.Type Mixed Use

Receiving Water: Salt River

Access Instructions: Park on the north side of 101 and Dobson (gate), walk in to outfall to west

For discrepancies or omissions only:

Outfall type, shape, material, and dimensions (see manual for codes): 3 - 12' x 12' box culverts

Vegetative Growth (circle one): none normal excessive growth inhibited growth

(If no flow but excessive or inhibited growth, schedule additional site visit).

Site Visit Information

Date/Time: 1/3/2012 1240

Precipitation <96 hours? Yes / No

Flow? Yes / No

pH: : 7.1su

Cl2: _____ ppm

Cu: _____ ppm

Phenols: _____ ppm

Deterg: _____ ppm

Turbidity: _____ NTU

Color: # Clear

Ammonia: — ppm

Oil sheen: Y / (N)

Surface scum: Y / (N)

Air Temp: 68°F

Water Temp: 69.5°F

Attach copy of Chain of Custody Record
(see manual for example form)

Physical Observations (1st Visit):

(circle appropriate descriptors,
for "other" write in description)

Deposits: (none) sediments oily other

Odor: (none) musty sewage rotten eggs solvent chlorine other

Biological: (none) fish algae other

Signature: John Burtar

1st Visit

Use one of the following:

A. Free Fall into container:

Volume: _____ (gal) Time: _____ (sec)

B. Channel/pipe Flow (provide sketch):

Depth: _____ (in) Width: _____ (in)

Velocity: _____ (ft/sec)

C. Discharge estimate: _____ (gpm)

Photograph of Outfall



Outfall 101-51.07 - Looking southwest

Additional Notes:

None

Land Use (L.U.) Type: Indicate dominant watershed land use as residential, industrial, commercial, agricultural, mixed , unknown

SITE REPORT
DRY WEATHER/ILLCIT DISCHARGE FIELD SCREEN

Structure Name: 66" Circular Pipe

Outfall Location Code: 143-2.90

L.U.Type Residential

Receiving Water: Old Cross Cut Canal

Access Instructions: North of Van Buren just east of the 143, go south along west side of the canal.

For discrepancies or omissions only:

Outfall type, shape, material, and dimensions (see manual for codes): 66" Circular Pipe

Vegetative Growth (circle one): none normal excessive growth inhibited growth

(If no flow but excessive or inhibited growth, schedule additional site visit).

Site Visit Information

Date/Time: 1/5/2012 1242

Precipitation <96 hours? Yes / No

Flow? Yes / No

pH: : _____ su

Cl2: _____ ppm

Cu: _____ ppm

Phenols: _____ ppm

Deterg: _____ ppm

Turbidity: _____ NTU

Color: # _____

Ammonia: _____ ppm

Oil sheen: Y / N

Surface scum: Y / N

Air Temp: _____ °F

Water Temp: _____ °F

Attach copy of Chain of Custody Record
(see manual for example form)

Physical Observations (1st Visit):

(circle appropriate descriptors,
for "other" write in description)

Deposits: none sediments oily other

Odor: none musty sewage rotten eggs solvent chlorine other

Biological: none fish algae other

Signature: John Bunker

1st Visit

Use one of the following:

A. Free Fall into container:

Volume: _____ (gal) Time: _____ (sec)

B. Channel/pipe Flow (provide sketch):

Depth: _____ (in) Width: _____ (in)

Velocity: _____ (ft/sec)

C. Discharge estimate: _____ (gpm)

Photograph of Outfall



Outfall 143-2.90 - Looking southwest into canal

Additional Notes:

NONE

Land Use (L.U.) Type: Indicate dominant watershed land use as residential, industrial, commercial, agricultural, mixed , unknown

SITE REPORT
DRY WEATHER/ILLCIT DISCHARGE FIELD SCREEN

Structure Name: 72" Circular Pipe

Outfall Location Code: 153-1.64

L.U.Type Commercial

Receiving Water: Salt River

Access Instructions: North on 47th Place off of University. Take dirt road on right at intersection of E. Hilton Ave and S 47th Place.

For discrepancies or omissions only:

Outfall type, shape, material, and dimensions (see manual for codes): 72" Circular Pipe

Vegetative Growth (circle one): none normal excessive growth inhibited growth

(If no flow but excessive or inhibited growth, schedule additional site visit).

Site Visit Information

Date/Time: 1/5/2012 1000

Precipitation <96 hours? Yes No

Flow? Yes No

pH: : _____ su

Cl2: _____ ppm

Cu: _____ ppm

Phenols: _____ ppm

Deterg: _____ ppm

Turbidity: _____ NTU

Color: # _____

Ammonia: _____ ppm

Oil sheen: Y / N

Surface scum: Y / N

Air Temp: _____ °F

Water Temp: _____ °F

Attach copy of Chain of Custody Record
(see manual for example form)

Physical Observations (1st Visit):

(circle appropriate descriptors,
for "other" write in description)

Deposits: none sediments oily other

Odor: none musty sewage rotten eggs solvent chlorine other

Biological: none fish algae other

Signature: John Burt

1st Visit

Use one of the following:

A. Free Fall into container:

Volume: _____ (gal) Time: _____ (sec)

B. Channel/pipe Flow (provide sketch):

Depth: _____ (in) Width: _____ (in)

Velocity: _____ (ft/sec)

C. Discharge estimate: _____ (gpm)

Photograph of Outfall



Outfall 153-1.64 - Looking south into outfall

Additional Notes:

None

Land Use (L.U.) Type: Indicate dominant watershed land use as residential, industrial, commercial, agricultural, mixed , unknown

SITE REPORT
DRY WEATHER/ILLCIT DISCHARGE FIELD SCREEN

Structure Name: 2 - 3' X 4' Box Culvert

Outfall Location Code: 202-3.57

L.U.Type Municipal

Receiving Water: Old Cross Cut Canal

Access Instructions: North of Van Buren just east of the 143, go north along west side of the canal.

For discrepancies or omissions only:

Outfall type, shape, material, and dimensions (see manual for codes): 2 - 3' X 4' Box Culvert

Vegetative Growth (circle one): none normal excessive growth inhibited growth

(If no flow but excessive or inhibited growth, schedule additional site visit).

Site Visit Information

Date/Time: 1/5/2012 1130

Precipitation <96 hours? Yes / No

Flow? Yes / No

pH: : _____ su

Cl2: _____ ppm

Cu: _____ ppm

Phenols: _____ ppm

Deterg: _____ ppm

Turbidity: _____ NTU

Color: # _____

Ammonia: _____ ppm

Oil sheen: Y / N

Surface scum: Y / N

Air Temp: _____ °F

Water Temp: _____ °F

Attach copy of Chain of Custody Record
(see manual for example form)

Physical Observations (1st Visit):

(circle appropriate descriptors,
for "other" write in description)

Deposits: none sediments oily other

Odor: none musty sewage rotten eggs solvent chlorine other

Biological: none fish algae other

Signature: John Burtis

1st Visit

Use one of the following:

A. Free Fall into container:

Volume: _____ (gal) Time: _____ (sec)

B. Channel/pipe Flow (provide sketch):

Depth: _____ (in) Width: _____ (in)

Velocity: _____ (ft/sec)

C. Discharge estimate: _____ (gpm)

Photograph of Outfall



Outfall 202-3.57 - Looking northeast into outfall under 202

Additional Notes:

None

Land Use (L.U.) Type: Indicate dominant watershed land use as residential, industrial, commercial, agricultural, mixed , unknown

SITE REPORT
DRY WEATHER/ILLCIT DISCHARGE FIELD SCREEN

Structure Name: 60'W X 5'D Open Channel

Outfall Location Code: 202-5.14

L.U.Type Municipal

Receiving Water: Salt River

Access Instructions: Go east on access road on south side of canal on 48th St south of Washington. Can't access the canal directly do to its location on Light Rail Yard.

For discrepancies or omissions only:

Outfall type, shape, material, and dimensions (see manual for codes): 60'W X 5'D Open Channel

Vegetative Growth (circle one): none normal excessive growth inhibited growth

(If no flow but excessive or inhibited growth, schedule additional site visit).

Site Visit Information

Date/Time: 1/5/2012 1239

Precipitation <96 hours? Yes / No

Flow? Yes / No Unable to reach outfall.

pH: : _____ su

Color: # _____

Cl2: _____ ppm

Ammonia: _____ ppm

Cu: _____ ppm

Oil sheen: Y / N

Phenols: _____ ppm

Surface scum: Y / N

Deterg: _____ ppm

Air Temp: _____ °F

Turbidity: _____ NTU

Water Temp: _____ °F

Attach copy of Chain of Custody Record
 (see manual for example form)

Physical Observations (1st Visit): Unable to reach outfall.

(circle appropriate descriptors,
 for "other" write in description)

Deposits: none sediments oily other

Odor: none musty sewage rotten eggs solvent chlorine other

Biological: none fish algae other

Signature: John Bunter

1st Visit

Use one of the following:

A. Free Fall into container:

Volume: _____ (gal) Time: _____ (sec)

B. Channel/pipe Flow (provide sketch):

Depth: _____ (in) Width: _____ (in)

Velocity: _____ (ft/sec)

C. Discharge estimate: _____ (gpm)

Photograph of Outfall



Outfall 202-5.14 - Looking south towards open channel

Additional Notes:

None

Land Use (L.U.) Type: Indicate dominant watershed land use as residential, industrial, commercial, agricultural, mixed , unknown

SITE REPORT
DRY WEATHER/ILLCIT DISCHARGE FIELD SCREEN

Structure Name: 48" Circular Pipe

Outfall Location Code: 202-7.44

L.U.Type Park

Receiving Water: Salt River

Access Instructions: Park on east side of marina walk to north bank 20' east of marina inlet.

For discrepancies or omissions only:

Outfall type, shape, material, and dimensions (see manual for codes): 48" Circular Pipe

Vegetative Growth (circle one): none normal excessive growth inhibited growth

(If no flow but excessive or inhibited growth, schedule additional site visit).

Site Visit Information

Date/Time: 12/20/2011 1455

Precipitation <96 hours? Yes / No

Flow? Yes No

pH: : _____ su

Cl2: _____ ppm

Cu: _____ ppm

Phenols: _____ ppm

Deterg: _____ ppm

Turbidity: _____ NTU

Color: # _____

Ammonia: _____ ppm

Oil sheen: Y / N

Surface scum: Y / N

Air Temp: _____ °F

Water Temp: _____ °F

Attach copy of Chain of Custody Record
(see manual for example form)

Physical Observations (1st Visit):

(circle appropriate descriptors,
for "other" write in description)

Deposits: none sediments oily other

Odor: none musty sewage rotten eggs solvent chlorine other

Biological: none fish algae other

Signature: Jedus Bunter

1st Visit

Use one of the following:

A. Free Fall into container:

Volume: _____ (gal) Time: _____ (sec)

B. Channel/pipe Flow (provide sketch):

Depth: _____ (in) Width: _____ (in)

Velocity: _____ (ft/sec)

C. Discharge estimate: _____ (gpm)

Photograph of Outfall (record roll number and exposure number)



Outfall 202-7.44 - Looking to the northwest towards the north bank of Tempe Town Lake
(outfall is underwater)

Additional Notes (sketch, flow data, observations, specify visit as 1st or 2nd) :

Land Use (L.U.) Type: Indicate dominant watershed land use as residential, industrial, commercial, agricultural, mixed , unknown

SITE REPORT
DRY WEATHER/ILLCIT DISCHARGE FIELD SCREEN

Structure Name: 2 - 8' X 8' Box Culverts

Outfall Location Code: 202-7.98

L.U.Type Park

Receiving Water: Salt River

Access Instructions: Park at park on the north side of Tempe Town Lake

For discrepancies or omissions only:

Outfall type, shape, material, and dimensions (see manual for codes): 2 - 8' X 8' Box Culverts

Vegetative Growth (circle one): none normal excessive growth inhibited growth

(If no flow but excessive or inhibited growth, schedule additional site visit).

Site Visit Information

Date/Time: 12/20/2011 1410

Precipitation <96 hours? Yes / No

Flow? Yes / No

pH: : _____ su

Cl2: _____ ppm

Cu: _____ ppm

Phenols: _____ ppm

Deterg: _____ ppm

Turbidity: _____ NTU

Color: # _____

Ammonia: _____ ppm

Oil sheen: Y / N

Surface scum: Y / N

Air Temp: _____ °F

Water Temp: _____ °F

Attach copy of Chain of Custody Record
(see manual for example form)

Physical Observations (1st Visit):

(circle appropriate descriptors,
for "other" write in description)

Deposits: none sediments oily other

Odor: none musty sewage rotten eggs solvent chlorine other

Biological: none fish algae other

Signature: John Bunter

1st Visit

Use one of the following:

A. Free Fall into container:

Volume: _____ (gal) Time: _____ (sec)

B. Channel/pipe Flow (provide sketch):

Depth: _____ (in) Width: _____ (in)

Velocity: _____ (ft/sec)

C. Discharge estimate: _____ (gpm)

Photograph of Outfall (record roll number and exposure number)



Outfall 202-7.98 - Looking west on north shore of Tempe Town Lake
(outfall partially underwater)

Additional Notes (sketch, flow data, observations, specify visit as 1st or 2nd):

Outfall partially underwater

Land Use (L.U.) Type: Indicate dominant watershed land use as residential, industrial, commercial, agricultural, mixed, unknown

**SITE REPORT
DRY WEATHER/ILLCIT DISCHARGE FIELD SCREEN**

Structure Name: 48" Circular Pipe

Outfall Location Code: 202-8.28

L.U.Type Mixed Use

Receiving Water: Salt River

Access Instructions: Walk from the north side of Tempe Town Lake to outfall

For discrepancies or omissions only:

Outfall type, shape, material, and dimensions (see manual for codes): 48" Circular Pipe

Vegetative Growth (circle one): none normal excessive growth inhibited growth

(If no flow but excessive or inhibited growth, schedule additional site visit).

Site Visit Information

Date/Time: 12/20/2012 1320

Precipitation <96 hours? Yes / No

Flow? Yes / No

pH: : _____ su

Cl2: _____ ppm

Cu: _____ ppm

Phenols: _____ ppm

Deterg: _____ ppm

Turbidity: _____ NTU

Color: # _____

Ammonia: _____ ppm

Oil sheen: Y / N

Surface scum: Y / N

Air Temp: _____ °F

Water Temp: _____ °F

Attach copy of Chain of Custody Record
(see manual for example form)

Physical Observations (1st Visit):

(circle appropriate descriptors,
for "other" write in description)

Deposits: none sediments oily other

Odor: none musty sewage rotten eggs solvent chlorine other

Biological: none fish algae other

Signature: John Butler

1st Visit

Use one of the following:

A. Free Fall into container:

Volume: _____ (gal) Time: _____ (sec)

B. Channel/pipe Flow (provide sketch):

Depth: _____ (in) Width: _____ (in)

Velocity: _____ (ft/sec)

C. Discharge estimate: _____ (gpm)

Photograph of Outfall (record roll number and exposure number)



Outfall 202-8.28 - Looking east towards outfall under 202 overpass

Additional Notes (sketch, flow data, observations, specify visit as 1st or 2nd) :

None

Land Use (L.U.) Type: Indicate dominant watershed land use as residential, industrial, commercial, agricultural, mixed , unknown

SITE REPORT
DRY WEATHER/ILLCIT DISCHARGE FIELD SCREEN

Structure Name: 36" Circular Pipe

Outfall Location Code: 202-8.65
(see manual, pp FCD-1-5)

L.U.Type Park
(see reverse)

Receiving Water: Salt River

Access Instructions: Park on North side of Tempe Town Lake.

For discrepancies or omissions only:

Outfall type, shape, material, and dimensions (see manual for codes): 36" Circular Pipe

Vegetative Growth (circle one): none normal excessive growth inhibited growth

(If no flow but excessive or inhibited growth, schedule additional site visit).

Site Visit Information

Date/Time: 12/20/2011 1340

Precipitation <96 hours? Yes / No

Flow? Yes No

pH: : _____ su

Cl₂: _____ ppm

Cu: _____ ppm

Phenols: _____ ppm

Deterg: _____ ppm

Turbidity: _____ NTU

Color: # _____

Ammonia: _____ ppm

Oil sheen: Y / N

Surface scum: Y / N

Air Temp: _____ °F

Water Temp: _____ °F

Attach copy of Chain of Custody Record
(see manual for example form)

Physical Observations (1st Visit):

(circle appropriate descriptors,
for "other" write in description)

Deposits: none sediments oily other

Odor: none musty sewage rotten eggs solvent chlorine other

Biological: none fish algae other

Signature: John Buxton

1st Visit

Use one of the following:

A. Free Fall into container:

Volume: _____ (gal) Time: _____ (sec)

B. Channel/pipe Flow (provide sketch):

Depth: _____ (in) Width: _____ (in)

Velocity: _____ (ft/sec)

C. Discharge estimate: _____ (gpm)

Photograph of Outfall (record roll number and exposure number)



Outfall 202-8.65 - Looking south into Tempe Town Lake

Additional Notes (sketch, flow data, observations, specify visit as 1st or 2nd) :

Outfall partially under water

Land Use (L.U.) Type: Indicate dominant watershed land use as residential, industrial, commercial, agricultural, mixed , unknown

**SITE REPORT
DRY WEATHER/ILLCIT DISCHARGE FIELD SCREEN**

Structure Name: 43'W x 11'D Open Channel

Outfall Location Code: 202-14.22

L.U.Type Residential and open land

Receiving Water: Salt River

Access Instructions: Mesa Dr. and McDowell Rd. Through ADOT Gate to the west, follow channel west to outfall.

For discrepancies or omissions only:

Outfall type, shape, material, and dimensions 43'W x 11'D Open Channel

Vegetative Growth (circle one): none normal excessive growth inhibited growth

(If no flow but excessive or inhibited growth, schedule additional site visit).

Site Visit Information

Date/Time: 12/22/2011 1345

Precipitation <96 hours? Yes / No

Flow? Yes / No

pH: : _____ su

Cl2: _____ ppm

Cu: _____ ppm

Phenols: _____ ppm

Deterg: _____ ppm

Turbidity: _____ NTU

Color: # _____

Ammonia: _____ ppm

Oil sheen: Y / N

Surface scum: Y / N

Air Temp: _____ °F

Water Temp: _____ °F

Attach copy of Chain of Custody Record
(see manual for example form)

Physical Observations (1st Visit):

(circle appropriate descriptors,
for "other" write in description)

Deposits: none sediments oily other

Odor: none musty sewage rotten eggs solvent chlorine other

Biological: none fish algae other

Signature: John Burton

1st Visit

Use one of the following:

A. Free Fall into container:

Volume: _____ (gal) Time: _____ (sec)

B. Channel/pipe Flow (provide sketch):

Depth: _____ (in) Width: _____ (in)

Velocity: _____ (ft/sec)

C. Discharge estimate: _____ (gpm)

Photograph of Outfall (record roll number and exposure number)



Outfall 202-14.22 - Looking north into outfall

Additional Notes (sketch, flow data, observations, specify visit as 1st or 2nd) :

Land Use (L.U.) Type: Indicate dominant watershed land use as residential, industrial, commercial, agricultural, mixed , unknown

SITE REPORT
DRY WEATHER/ILLCIT DISCHARGE FIELD SCREEN

Structure Name: 66" Circular Pipe.

Outfall Location Code: 10-151.06

L.U.Type Commercial

Receiving Water: Tempe Drain

Access Instructions: Park in lot to the northwest of I-10 and University

For discrepancies or omissions only:

Outfall type, shape, material, and dimensions (see manual for codes): 66" Circular Pipe

Vegetative Growth (circle one): none normal excessive growth inhibited growth

(If no flow but excessive or inhibited growth, schedule additional site visit).

Site Visit Information

Date/Time: 1/10/2012 1345

Precipitation <96 hours? Yes No

Flow? Yes No

pH: N/A su

Cl2: N/A ppm

Cu: N/A ppm

Phenols: N/A ppm

Deterg: N/A ppm

Turbidity: N/A NTU

Color: # N/A

Ammonia: N/A ppm

Oil sheen: N/A

Surface scum: N/A

Air Temp: N/A °F

Water Temp: N/A °F

Attach copy of Chain of Custody Record
(see manual for example form)

Physical Observations (1st Visit):

(circle appropriate descriptors,
for "other" write in description)

Deposits: none sediments oily other

Odor: none musty sewage rotten eggs solvent chlorine other

Biological: none fish algae other

Signature: John Burtus

1st Visit

Use one of the following:

A. Free Fall into container:

Volume: _____ (gal) Time: _____ (sec)

B. Channel/pipe Flow (provide sketch):

Depth: _____ (in) Width: _____ (in)

Velocity: _____ (ft/sec)

C. Discharge estimate: _____ (gpm)

Photograph of Outfall



Outfall 10-150.06 – Looking southwest

Additional Notes



Heavy over growth around outfall

Land Use (L.U.) Type: Indicate dominant watershed land use as residential, industrial, commercial, agricultural, mixed , unknown

**SITE REPORT
DRY WEATHER/ILLCIT DISCHARGE FIELD SCREEN**

Structure Name: 102" Circular Pipe

Outfall Location Code: 17-198.48

L.U.Type Commercial

Receiving Water: Salt River

Access Instructions: 27th Ave South into Landfill, east 200' past the scale through gate.

For discrepancies or omissions only:

Outfall type, shape, material, and dimensions (see manual for codes): 102" Circular Pipe

Vegetative Growth (circle one): none normal excessive growth inhibited growth

(If no flow but excessive or inhibited growth, schedule additional site visit).

Site Visit Information

Date/Time: 1/7/2012 1100

Precipitation <96 hours? Yes No

Flow? Yes No

pH: N/A su

Cl2: N/A ppm

Cu: N/A ppm

Phenols: N/A ppm

Deterg: N/A ppm

Turbidity: N/A NTU

Color: # N/A

Ammonia: N/A ppm

Oil sheen: N/A

Surface scum: N/A

Air Temp: N/A °F

Water Temp: N/A °F

Attach copy of Chain of Custody Record
(see manual for example form)

Physical Observations (1st Visit):

(circle appropriate descriptors,
for "other" write in description)

Deposits: none sediments oily other

Odor: none musty sewage rotten eggs solvent chlorine other

Biological: none fish algae other

Signature: John Burtin

1st Visit

Use one of the following:

A. Free Fall into container:

Volume: _____ (gal) Time: _____ (sec)

B. Channel/pipe Flow (provide sketch):

Depth: _____ (in) Width: _____ (in)

Velocity: _____ (ft/sec)

C. Discharge estimate: _____ (gpm)

Photograph of Outfall



Outfall 17-198.48 - Looking north at the outfall

Additional Notes

None

Land Use (L.U.) Type: Indicate dominant watershed land use as residential, industrial, commercial, agricultural, mixed , unknown

SITE REPORT
DRY WEATHER/ILLCIT DISCHARGE FIELD SCREEN

Structure Name: 48" Circular Pipe

Outfall Location Code: 51-7.04

L.U.Type Commercial

Receiving Water: Dreamy Draw Wash

Access Instructions: North on Highway 51, exit on Northern, pull over on east side of ramp before the stop light and walk east around fence.

For discrepancies or omissions only:

Outfall type, shape, material, and dimensions (see manual for codes): 48" Circular Pipe

Vegetative Growth (circle one): none normal excessive growth inhibited growth

(If no flow but excessive or inhibited growth, schedule additional site visit).

Site Visit Information

Date/Time: 1/10/2012 1435

Precipitation <96 hours? Yes / No

Flow? Yes / No

pH: N/A su

Cl2: N/A ppm

Cu: N/A ppm

Phenols: N/A ppm

Deterg: N/A ppm

Turbidity: N/A NTU

Color: # N/A

Ammonia: N/A ppm

Oil sheen: N/A

Surface scum: N/A

Air Temp: N/A °F

Water Temp: N/A °F

Attach copy of Chain of Custody Record
(see manual for example form)

Physical Observations (1st Visit):

(circle appropriate descriptors,
for "other" write in description)

Deposits: none sediments oily other

Odor: none musty sewage rotten eggs solvent chlorine other

Biological: none fish algae other

Signature: John Buxter

1st Visit

Use one of the following:

A. Free Fall into container:

Volume: _____ (gal) Time: _____ (sec)

B. Channel/pipe Flow (provide sketch):

Depth: _____ (in) Width: _____ (in)

Velocity: _____ (ft/sec)

C. Discharge estimate: _____ (gpm)

Photograph of Outfall



Outfall 51-7.04 - Looking north into the outfall

Additional Notes



Tree covering outfall

Land Use (L.U.) Type: Indicate dominant watershed land use as residential, industrial, commercial, agricultural, mixed , unknown

SITE REPORT
DRY WEATHER/ILLCIT DISCHARGE FIELD SCREEN

Structure Name: 10' x 6' Box Culvert

Outfall Location Code: 51-8.22

L.U.Type Commercial

Receiving Water: Dreamy Draw Wash

Access Instructions: Park at 29th St and E Malapai Drive. Take hikers trail to outfall

For discrepancies or omissions only:

Outfall type, shape, material, and dimensions (see manual for codes): 10' x 6' Box Culvert

Vegetative Growth (circle one): none normal excessive growth inhibited growth

(If no flow but excessive or inhibited growth, schedule additional site visit).

Site Visit Information

Date/Time: 1/10/2012 1515

Precipitation <96 hours? Yes / No

Flow? Yes / No

pH: N/A su

Cl2: N/A ppm

Cu: N/A ppm

Phenols: N/A ppm

Deterg: N/A ppm

Turbidity: N/A NTU

Color: # N/A

Ammonia: N/A ppm

Oil sheen: N/A

Surface scum: N/A

Air Temp: N/A °F

Water Temp: N/A °F

Attach copy of Chain of Custody Record
 (see manual for example form)

Physical Observations (1st Visit):

(circle appropriate descriptors,
 for "other" write in description)

Deposits: none sediments oily other

Odor: none musty sewage rotten eggs solvent chlorine other

Biological: none fish algae other

Signature: John Burt

1st Visit

Use one of the following:

A. Free Fall into container:

Volume: _____ (gal) Time: _____ (sec)

B. Channel/pipe Flow (provide sketch):

Depth: _____ (in) Width: _____ (in)

Velocity: _____ (ft/sec)

C. Discharge estimate: _____ (gpm)

Photograph of Outfall



Outfall 51-8.22 - Looking north at outfall

Additional Notes



Tagging on walls



Broken grate/lock

Land Use (L.U.) Type: Indicate dominant watershed land use as residential, industrial, commercial, agricultural, mixed, unknown

SITE REPORT
DRY WEATHER/ILLCIT DISCHARGE FIELD SCREEN

Structure Name: 36" Circular Pipe

Outfall Location Code: 202-5.90

L.U.Type Mixed

Receiving Water: Salt River

Access Instructions: South on Lake View Dr. off of E Curry Rd. Park on North side of lake and walk west to outfall.

For discrepancies or omissions only:

Outfall type, shape, material, and dimensions (see manual for codes): 36" Circular Pipe

Vegetative Growth (circle one): none normal excessive growth inhibited growth

(If no flow but excessive or inhibited growth, schedule additional site visit).

Site Visit Information

Date/Time: 1/5/2012 1320

Precipitation <96 hours? Yes No

Flow? Yes No

pH: : _____ su

Cl2: _____ ppm

Cu: _____ ppm

Phenols: _____ ppm

Deterg: _____ ppm

Turbidity: _____ NTU

Color: # _____

Ammonia: _____ ppm

Oil sheen: Y / N

Surface scum: Y / N

Air Temp: _____ °F

Water Temp: _____ °F

Attach copy of Chain of Custody Record
 (see manual for example form)

Physical Observations (1st Visit):

(circle appropriate descriptors,
 for "other" write in description)

Deposits: none sediments oily other

Odor: none musty sewage rotten eggs solvent chlorine other

Biological: none fish algae other

Signature: John Burtin

1st Visit

Use one of the following:

A. Free Fall into container:

Volume: _____ (gal) Time: _____ (sec)

B. Channel/pipe Flow (provide sketch):

Depth: _____ (in) Width: _____ (in)

Velocity: _____ (ft/sec)

C. Discharge estimate: _____ (gpm)

Photograph of Outfall



Outfall 202-5.90 - Looking north into the outfall

Looking south from outfall into Salt River

Additional Notes:

None

Land Use (L.U.) Type: Indicate dominant watershed land use as residential, industrial, commercial, agricultural, mixed , unknown

SITE REPORT
DRY WEATHER/ILLCIT DISCHARGE FIELD SCREEN

Structure Name: 36" Circular Pipe

Outfall Location Code: 60-159.51

L.U.Type Commercial

Receiving Water: Grand Canal

Access Instructions: Park in lot south of Grand Canal and walk on the south side of the canal outfall under Grand Ave.

For discrepancies or omissions only:

Outfall type, shape, material, and dimensions (see manual for codes): 36" Circular Pipe

Vegetative Growth (circle one): none normal excessive growth inhibited growth

(If no flow but excessive or inhibited growth, schedule additional site visit).

Site Visit Information

Date/Time: 1/10/2012 1205

Precipitation <96 hours? Yes / No

Flow? Yes / No

pH: N/A su

Cl2: N/A ppm

Cu: N/A ppm

Phenols: N/A ppm

Deterg: N/A ppm

Turbidity: N/A NTU

Color: # N/A

Ammonia: N/A ppm

Oil sheen: N/A

Surface scum: N/A

Air Temp: N/A °F

Water Temp: N/A °F

Attach copy of Chain of Custody Record
(see manual for example form)

Physical Observations (1st Visit):

(circle appropriate descriptors,
for "other" write in description)

Deposits: none sediments oily other

Odor: none musty sewage rotten eggs solvent chlorine other

Biological: none fish algae other

Signature: John Burtus

1st Visit

Use one of the following:

A. Free Fall into container:

Volume: _____ (gal) Time: _____ (sec)

B. Channel/pipe Flow (provide sketch):

Depth: _____ (in) Width: _____ (in)

Velocity: _____ (ft/sec)

C. Discharge estimate: _____ (gpm)

Photograph of Outfall



Outfall under overpass.

Additional Notes

Grand Canal had water present

Land Use (L.U.) Type: Indicate dominant watershed land use as residential, industrial, commercial, agricultural, mixed , unknown

APPENDIX C
Notice of Illegal Discharge Letters



Arizona Department of Transportation
Administrative Services Division
206 South Seventeenth Avenue Phoenix, Arizona 85007-3213

Janice K. Brewer
Governor

John H. Nichols
Division Director

November 17, 2011

John S. Halikowski
Director

NOTICE OF ILLEGAL DISCHARGE OR CONNECTION

Doug Rozelle, Globe Area Sales Manager
Fred Nackard Wholesale Beverage Co.
1800 E. Highway 60
Globe, Arizona 85501

Dear Mr. Rozelle:

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.

On September 29, 2011 a letter was sent to you from Roderick Lane, the ADOT Globe District Engineer regarding a discharge pipe originating from your property located along US 60. The letter requested that either the proper permit be obtained from the ADOT Globe District or the pipe must cease discharging into the ADOT right-of-way.

A recent inspection of the area showed that the pipe has not been removed. 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 take corrective measures, including but not limited to sending this matter to the Arizona Office of the Attorney General. In the alternative, ADOT may remove the connection and bill you directly pursuant to A.R.S. § 28-7053.

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
Roderick Lane, ADOT Globe District Engineer
Kevin Boesch, ADOT Globe District Environmental Coordinator



Arizona Department of Transportation
Administrative Services Division
206 South Seventeenth Avenue Phoenix, Arizona 85007-3213

Janice K. Brewer
Governor

John H. Nichols
Division Director

John S. Halikowski
Director

January 19, 2012

NOTICE OF ILLEGAL DISCHARGE OR CONNECTION

Alexander's Body Shop
3777 Northwest Grand Avenue
Phoenix, Arizona. 85019

Dear Sir/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 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 in the vicinity of your property and an illegal discharge was discovered entering into the ADOT system. The discharge/connection was discovered on December 29, 2011 at the address listed above.

Indicators include the presence of grayish color water. Photographs of this discharge/connection are enclosed with this letter.

This discharge must be ceased or 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 take corrective measures, including but not limited to sending this matter to the Arizona Office of the Attorney General so that a lawsuit may be filed. In the alternative, ADOT may remove the discharge/connection and bill you directly pursuant to A.R.S. § 28-7053.

If the illegal discharge/connection cannot be removed within 30 days, you do not understand this notice, or you disagree that an illegal discharge/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. Si desea esta correspondencia en español por favor comuníquese con Lourdes Lerma al 602-712-8989.

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



Arizona Department of Transportation
Administrative Services Division
206 South Seventeenth Avenue Phoenix, Arizona 85007-3213

Janice K. Brewer
Governor

John H. Nichols
Division Director

January 19, 2012

John S. Halikowski
Director

NOTICE OF ILLEGAL DISCHARGE OR CONNECTION

Rodriguez Auto Body Y Mecanica en General
6516 Northwest Grand Avenue
Glendale, Arizona. 85301

Dear Sir/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 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 in the vicinity of your property and an illegal discharge was discovered entering into the ADOT system. The discharge/connection was discovered on December 29, 2011 at the address listed above.

Indicators include the presence of grayish color water. Photographs of this discharge/connection are enclosed with this letter.

This discharge must be ceased or 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 take corrective measures, including but not limited to sending this matter to the Arizona Office of the Attorney General so that a lawsuit may be filed. In the alternative, ADOT may remove the discharge/connection and bill you directly pursuant to A.R.S. § 28-7053.

If the illegal discharge/connection cannot be removed within 30 days, you do not understand this notice, or you disagree that an illegal discharge/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. Si desea esta correspondencia en español por favor comuníquese con Lourdes Lerma al 602-712-8989.

Sincerely,

Wendy Terlizzi
ADOT Office of Environmental Services Water Quality Manager
1611 W Jackson Street, MD EM04
Phoenix, Arizona 85383

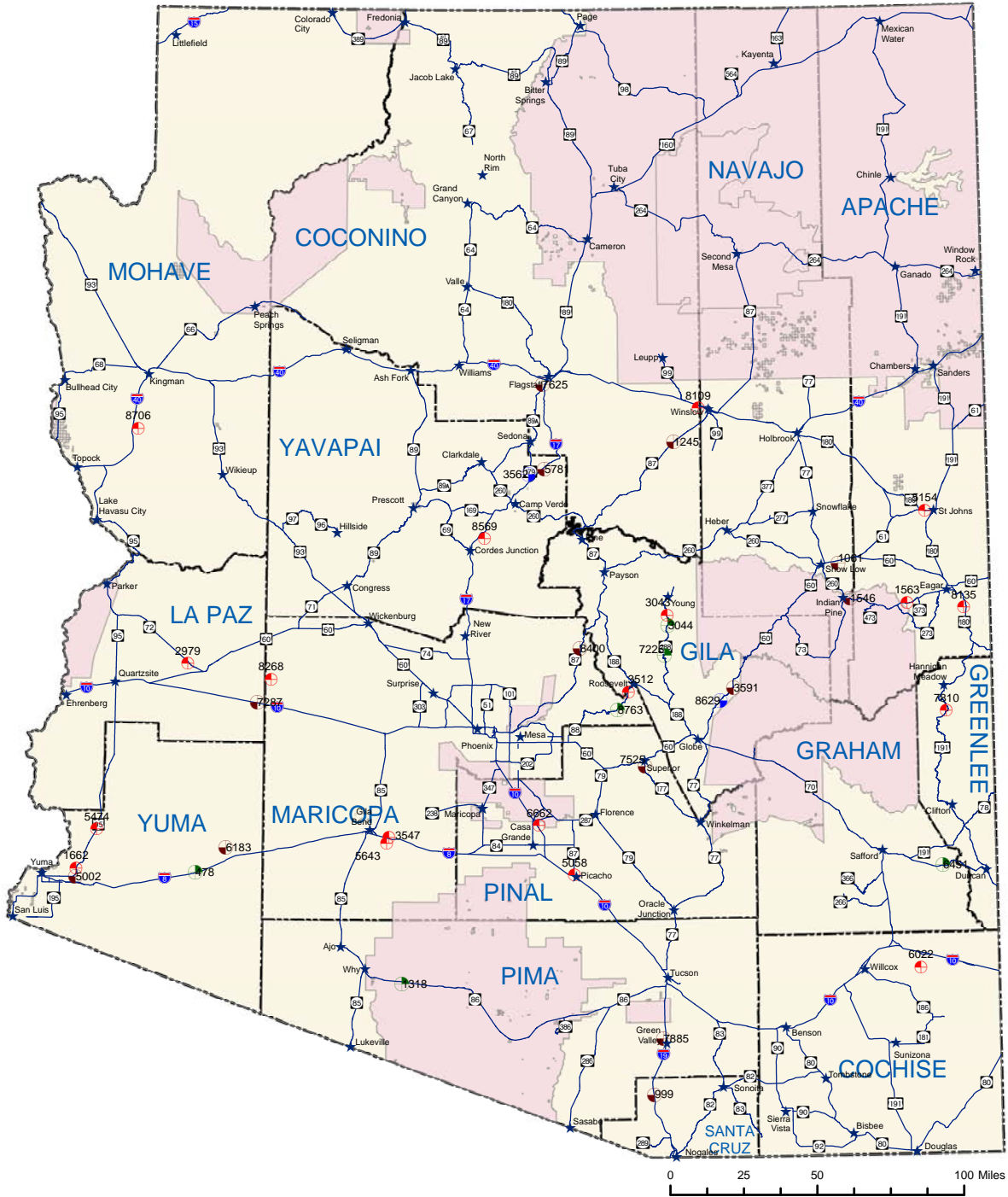
cc: Todd G. Williams, M.Sc, ADOT Office of Environmental Services Director
Tim Wolfe, ADOT Phoenix Maintenance District Engineer
Lisa Andersen, ADOT Phoenix Maintenance District Environmental Coordinator

APPENDIX D
Example Spill Report Form

SPILL REPORTING FORM		
Provide to: Yard Supervisor <i>Lee Ruff</i>		
1. SITE NAME AND ADDRESS: <i>PV Maintenance Yard 6989 E. 2nd St. Prescott Valley Az 86314</i>		
2. NAME OF PERSON DISCOVERING/REPORTING SPILL: <i>Ray Chavez & Gordon Douglas to Maint. Supervisor</i>	3. DATE AND TIME INCIDENT DISCOVERED: <i>12/19/11 3:30 PM</i>	
4. BRIEFLY DESCRIBE INCIDENT, INCLUDING TYPE OF MATERIAL SPILLED AND EQUIPMENT/FACILITIES INVOLVED: <i>Overflow of MgCl de-icer from fill line. Approx 4000 gallon released from tank. Fill line not placed into containment area. Material travelled through yard to detention basin (#28 on site map). No material left site.</i>		
5. CAUSE / SOURCE OF SPILL: <i>Fill hose cut off valve not turned off and fill house left in 55 gal drum outside cont.</i>	6. DURATION OF SPILL: <i>1 1/2 hours</i>	
7. SPILL WAS RELEASED TO: <input type="checkbox"/> WATER/WATERWAYS (DESCRIBE) <input type="checkbox"/> SEWER <input type="checkbox"/> OIL WATER SEPARATOR <input type="checkbox"/> CONCRETE/ASPHALT <input type="checkbox"/> STORM DRAIN <input checked="" type="checkbox"/> SOIL <input type="checkbox"/> OTHER (SPECIFY) <input type="checkbox"/> DRY WELL <i>on-site detention. Nothing left site</i>	8. AMOUNT SPILLED (GALLONS): <i>4000 gallons</i>	9. WAS FIRE DEPARTMENT NOTIFIED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A NAMES:
10. ASSISTANCE REQUIRED FROM CONTRACTOR? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES (WHO & EXPLAIN):	11. NAME AND ADDRESS OF DISPOSAL CONTRACTOR USED <i>None required</i>	
12. DISTANCE SPILL MATERIAL TRAVELED: <i>200 yards</i>	13. OFF-SITE PROPERTY AFFECTED? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES (EXPLAIN)	
14. PERSONAL PROTECTIVE EQUIPMENT AND/OR SPILL EQUIPMENT/MATERIALS USED? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES (EXPLAIN)	15. ANY INJURIES?: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES (EXPLAIN)?	
16. ACTION BEING TAKEN? <i>Berm placed behind east side of building 22</i>	17. ADDITIONAL INFORMATION (IF NECESSARY) <i>None.</i>	
18. PERSON MAKING THIS REPORT: (NAME AND TITLE): <i>Chuck Budinger District Environmental</i>	19. SIGNATURE OF PERSON COMPLETING FORM AND DATE COMPLETED: <i>Charles W. Budinger 12/21/11</i>	

APPENDIX E
Material Sources Map

Arizona Department of Transportation Licensed Material Sources and Stockpile Sites



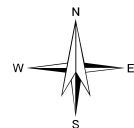
Permit Year 4

- Group_A
- Group_B
- Group_C
- Group_I

Legend

- map_book_cities
- Functional_Classification_2007
- AZ_state
- AmerInd_ft_2005
- counties

Prepared by:
Arizona Department of Transportation
Materials Section - Sergio Montañez
Phone: 602-712-7448
Date: November 8, 2012



APPENDIX F
Numeric Summary of BMPs

Numeric Summary of BMPs

Section Number	Stormwater BMP or Activity	Annual Reporting Year (July1 - June 30)				
		2008-2009	2009-2010	2010-2011	2011-2012	2012-2013
MEASURES TO CONTROL DISCHARGES THROUGH EDUCATION						
3.2.2.1(a)(ii)(1)	Train ADOT Employees - Illicit discharges and illegal dumping (IDDE)					
	Number of trainings offered	7	17	13	NA	
	Number of employees trained	35	112	33	973	
	<i>(Other numeric measurable goals(s))</i>	NA	NA	NA	NA	
3.2.2.1(a)(ii)(2)	Train ADOT Employees - Non-stormwater discharges (combined with previous)					
	Number of trainings offered	7	17	13	NA	
	Number of employees trained	35	112	33	See IDDE	
	<i>(Other numeric measurable goals(s))</i>	NA	NA	NA	NA	
3.2.2.1(a)(ii)(3)	Train ADOT Employees - New Construction and land disturbances					
	Number of trainings offered	7	17	13	NA	
	Number of employees trained	35	112	33	See IDDE	
	<i>(Other numeric measurable goals(s))</i>	NA	NA	NA	NA	
3.2.2.1(a)(ii)(4)	Train ADOT Employees - New development and significant redevelopment					
	Number of trainings offered	7	17	13	NA	
	Number of employees trained	35	112	33	932	
	<i>(Other numeric measurable goals(s))</i>	NA	NA	NA	NA	
3.2.2.1(a)(ii)(5)	Train ADOT Employees - Storm sewer system and highway maintenance					
	Number of trainings offered	7	17	13	NA	
	Number of employees trained	35	112	33	906	
	<i>(Other numeric measurable goals(s))</i>	NA	NA	NA	NA	
3.2.2.1(a)(ii)(6)	Train ADOT Employees - Good housekeeping and material BMPs (combined some modules and changed titles)					
	Spill Prevention and Response - Number of trainings offered	7	17	1	NA	
	Spill Prevention and Response - Number of employees trained	35	112	36	654	
	Pesticides, Herbicides, and Fertilizer Application - Number of trainings offered	7	17	1	NA	
	Pesticides, Herbicides, and Fertilizer Application - Number of employees trained	35	112	36	See Spill	
	Industrial Sites - Number of trainings offered	7	17	1	NA	
	Industrial Sites - Number of employees trained	35	112	36	971	
	<i>(Other numeric measurable goals(s))</i>	NA	NA	NA	NA	

Numeric Summary of BMPs

Section Number	Stormwater BMP or Activity	Annual Reporting Year (July1 - June 30)				
		2008-2009	2009-2010	2010-2011	2011-2012	2012-2013
3.2.2.1(a)(iii)	Develop Stormwater Library					
	Number of times accessed or visited	NA	NA	NA	365	
	<i>(Other numeric measurable goals(s))</i>	NA	NA	NA	NA	
3.2.2.1(b)	ADOT Construction Contractor Training and Certification					
	Number of trainings offered	7	6	8	11	
	Number of ADOT employees trained/certified	35	22	34	46	
	Number of ADOT employees recertified	5	28	5	14	
	Number of ADOT contractors trained	NA	129	53	132	
3.2.2.2(b)(i)	Distribution of Educational Materials Through Public Places (refer to PAG and STORM annual reports)					
	Number of materials (posters, brochures, signs, etc.) distributed	2600	4,577	5200	NA	
	Number of public events ADOT attended with displays	5	65	119	NA	
	Est'd Audience from tv, movie, radio, billboard, bus shelter PSAs	NA	13,534,800	4,268,300	NA	
	Educational items (coloring books, wrist bands, magnets, etc). distributed	NA	6,129	8,000	NA	
	Construction seminar provided	NA	NA	80	NA	
	<i>(Other numeric measurable goals(s))</i>	NA	NA	NA	NA	
3.2.2.2(b)(ii)	Distribution of Educational Materials Through ADOT's Stormwater Webpage					
	Number of hits on webpage	NA	NA	NA	365	
	<i>(Other numeric measurable goals(s))</i>	NA	NA	NA	NA	
3.2.2.3 (b)	Record and Consider Public Comments					
	Number of public comments received	0	0	0	0	
	<i>(Other numeric measurable goals(s))</i>	NA	NA	NA	NA	
3.2.2.3(c)	Implement a Public Reporting System					
	Number of reports received from public	0	0	0	0	
	Number of reports investigated	0	0	0	0	
	<i>(Other numeric measurable goals(s))</i>	NA	NA	NA	NA	
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	1618	
	Number of miles cleaned	2,291	2,026	3935.4	4108	
	Amount of trash collected (tons)	246	211	224	NA	
	<i>(Other numeric measurable goals(s))</i>	NA	NA	NA	NA	
3.2.2.3(e)	Continue Implementation of Litter Hotline					
	Number of calls received	3,389	2864	2776	NA	
	<i>(Other numeric measurable goals(s))</i>	NA	NA	NA	NA	

NA - Not Available

Numeric Summary of BMPs

Section Number	Stormwater BMP or Activity	Annual Reporting Year (July1 - June 30)				
		2008-2009	2009-2010	2010-2011	2011-2012	2012-2013
ILLCIT DISCHARGE/ILLEGAL DUMPING DETECTION AND ELIMINATION MEASURES						
3.2.3.1(a)	Maintain Illicit Discharge Authority					
	<i>(Numeric Measurable goal(s))</i>	0	0	0	0	
3.2.3.1(b)	Enforce Standard Encroachment Permit					
	Number of enforcement actions	0	0	0	0	
	<i>(Other numeric measurable goal(s))</i>	NA	NA	NA	NA	
3.2.3.1(c)	Implement Non-Stormwater BMPs					
	<i>(Numeric Measurable goal(s))</i>	NA	NA	NA	NA	
3.2.3.1(d)	Inspect Outfalls for Dry Weather Discharges					
	Number of major outfalls inspected	35	35	0	51	
	Number of 71 identified major outfalls inspected	35	35	0		
	Number of priority outfalls inspected	7	0	0		
	Number of storm drain cross connection detected	0	0	0		
	Number of illicit discharges detected	1	1	0	6	
	Number of other dry weather flows detected	0	0	0	7	
	<i>(Other numeric measurable goal(s))</i>	NA	NA	NA	NA	
3.2.3.3(b)	Investigate Illicit Discharges (Source Identification)					
	Number of storm drain cross connection investigated	0	0	0		
	Number of illicit discharges investigated	0	0	7	9	
	Number of other dry weather flows investigated	0	0	0	7	
	<i>(Other numeric measurable goal(s))</i>	NA	NA	0	NA	

Numeric Summary of BMPs

Section Number	Stormwater BMP or Activity	Annual Reporting Year (July1 - June 30)				
		2008-2009	2009-2010	2010-2011	2011-2012	2012-2013
3.2.3.3(c)	Respond to Complaints					
	Number of complaints received	0	0	0	0	
	Number of complaints responded to	0	0	0	0	
	Average response time (in days)	0	0	0	0	
	<i>(Other numeric measurable goal(s))</i>	NA	NA	NA	NA	
3.2.3.3(d)	Report Incidental Dry Weather Discharges					
	Number of discharges reported to ADEQ	1	1	0	0	
	<i>(Other numeric measurable goal(s))</i>	NA	NA	0	NA	
3.2.3.4(a)	Take Action to Eliminate Existing Dry Weather Flows					
	Number of existing dry weather discharges eliminated	0	0	0	0	
	<i>(Other numeric measurable goal(s))</i>	NA	NA	NA	NA	
3.2.3.4(b)	Take Action to Eliminate Sources of Illicit Discharges					
	Number of storm drain cross connection eliminated	0	0	0	0	
	Number of illicit discharges eliminated	1	1	7	7	
	Number of dry weather discharges eliminated	1	1	0	6	
	<i>(Other numeric measurable goal(s))</i>	NA	NA	NA	NA	
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	
	<i>(Other numeric measurable goal(s))</i>	NA	NA	NA	NA	
3.2.3.5	Responding to Spills					
	Number of highway accident spills responded to	0	156	180	196	
	Number of highway accident spills prioritized (potential for discharge)	0	156	10	17	
	Hazardous material released	NA	NA	50	17	

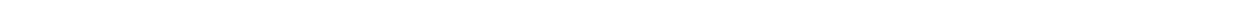
Numeric Summary of BMPs

Section Number	Stormwater BMP or Activity	Annual Reporting Year (July1 - June 30)				
		2008-2009	2009-2010	2010-2011	2011-2012	2012-2013
MEASURES TO CONTROL DISCHARGES FROM NEW DEVELOPMENT AND REDEVELOPMENT						
3.2.5.2	Install Post-Construction Stormwater Control BMPs					
	Number of new post-construction stormwater control BMPs installed	NA	0	0	0	
	<i>(Other numeric measurable goal(s))</i>	NA	NA	NA	NA	
MEASURES TO CONTROL DISCHARGES FROM ROADWAYS						
3.2.6.1(b)	Inspect Storm Sewer System					
	Number of inspections performed	0	51	51	51	
	<i>(Other numeric measurable goal(s))</i>	NA	NA	NA	NA	
3.2.6.1(c)	Develop Maintenance Schedules and Priorities					
	<i>(Numeric measurable goal(s))</i>	NA	NA	NA	NA	
3.2.6.1(d)	Perform Repair, Maintenance, and Cleaning					
	Number of miles of roadways repaired/maintained	0*	0*	0*	0	
	Number of inlets cleaned	0*	0*	0*	0	
	Number of drain inlets containing significant materials	0*	0*	0*	0	
	<i>(Other numeric measurable goal(s))</i>	NA	NA	NA	NA	
3.2.6.2(c)(ii)	Require Certification/License					
	Number of licensed ADOT applicators	41	41	40		
3.2.6.2(d)	Stabilize Roadway Slopes (attach summary of tracking & prioritization)					
	Acres of roadway slopes stabilized	0	0	0	NA	
* In accordance with 3.2.6.1(b), ADOT has 24 months to implement a system to inspect and record conditions of its storm sewer system						
MEASURES TO CONTROL DISCHARGES FROM ADOT MAINTENANCE FACILITIES						
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	15	0	0	0	
	<i>(Other numeric measurable goal(s))</i>	NA	NA	NA	NA	

APPENDIX G
Monitoring Data for MS4 Locations

Phoenix
Tucson

Phoenix



Appendix G
Monitoring Data

OUTFALL ID: 101-13.68 RECEIVING WATER: Skunk Creek (a reach of Cave Creek) WATERSHED: Middle Gila DESIGNATED USES: A&We, PBC AUTOSAMPLER STARTUP DATE: July 13, 2011 (previous sampling conducted with passive samplers)		MONITORING SEASONS							
		Summer: June 1- October 31 Winter: November 1- May 31							
SAMPLING DATE		Winter 2008-09	Summer 2009	Winter 2009-10	Summer 2010	Winter 2010-11	Summer 2011	Winter 2011-12	Summer 2012
12/17/08		7/21/09	2/28/10	NS	NS	NS	11/5/11		
MONITORING PARAMETERS	WQS								
Flow	NNS	1.7gpm	1.4gpm	-	NS	NS	NS	42	
pH	5.0-9.0	7.75	7.21	8.52	NS	NS	NS	7.23	
Temperature (F°)	NNS	54.4	96.9	56.5	NS	NS	NS	57.2	
Hardness	NNS	180	-	60	NS	NS	NS	NS	
Specific conductance (mg/L)	NNS	550	900	1500	NS	NS	NS	NS	
Total Dissolved Solids (TDS) (mg/L)	500.00	290	720*	97	NS	NS	NS	NS	
Total Suspended Solids (TSS) (mg/L)	NNS	85	-	76	NS	NS	NS	NS	
Turbidity (NTU)	NNS	49	21	100	NS	NS	NS	NS	
Biochemical Oxygen Demand (BOD) (mg/L)	NNS	13	40	<5.0	NS	NS	NS	NS	
Chemical Oxygen Demand (COD) (mg/L)	NNS	110	350	70	NS	NS	NS	NS	
Surfactants (mg/L)	NNS	NS	NS	NS	NS	NS	NS	NS	
Inorganics									
Cyanide (mg/L)	0.20	<0.0050	<0.0050	<0.0050	NS	NS	NS	<0.0080	
Sulfates (mg/L)	250.00	56	69	7.6	NS	NS	NS	NS	
Nutrients									
Nitrate (mg/L)	10.00	3.3	4	1.1	NS	NS	NS	NS	
Nitrite (mg/L)	1.00	0.19	0.77	<0.10	NS	NS	NS	NS	
Total Ammonia (mg/L)	NNS	NS	NS	NS	NS	NS	NS	NS	
Total Kjeldahl Nitrogen (TKN) (mg/L)	NNS	3	12	1.5	NS	NS	NS	NS	
Total Phosphorous (mg/L)	NNS	-	1.1	0.25	NS	NS	NS	NS	
Phosphate, Ortho (mg/L)	NNS	<0.12	0.46	0.48	NS	NS	NS	NS	
Sodium (mg/L)	NNS	49	85	1.3	NS	NS	NS	NS	
Calcium (mg/L)	NNS	46	64	150	NS	NS	NS	NS	
Chloride (mg/L)	NNS	69	130	6.9	NS	NS	NS	NS	

Appendix G
Monitoring Data

RECEIVING WATER: Skunk Creek (a reach of Cave Creek) WATERSHED: Middle Gila DESIGNATED USES: A&We, PBC AUTOSAMPLER STARTUP DATE: July 13, 2011 (previous sampling conducted with passive samplers)		Summer: June 1- October 31 Winter: November 1- May 31							
		Winter 2008-09	Summer 2009	Winter 2009-10	Summer 2010	Winter 2010-11	Summer 2011	Winter 2011-12	Summer 2012
SAMPLING DATE		12/17/08	7/21/09	2/28/10	NS	NS	NS	11/5/11	
Microbiological									
Coliform, fecal (col/100 ml)	NNS	>1,200	-	>200	NS	NS	NS	NS	
E.Coli (cfu/100 ml)	100.00	>24,200	-	-	NS	NS	NS	170	
Total Metals									
Antimony (mg/L)	0.006	<0.020	0.0037	<0.020	NS	NS	NS	NS	
Arsenic (mg/L)	0.050	<0.021	0.0064	<0.020	NS	NS	NS	NS	
Barium (mg/L)	2.000	0.098	0.14	0.074	NS	NS	NS	NS	
Beryllium (mg/L)	0.004	<0.0020	<0.0020	<0.0020	NS	NS	NS	NS	
Cadmium (mg/L)	0.005	<0.0050	<0.0050	<0.0050	NS	NS	NS	NS	
Chromium (mg/L)	0.100	<0.010	<0.010	<0.010	NS	NS	NS	NS	
Copper (mg/L)	1.300	0.023	0.073	<0.020	NS	NS	NS	NS	
Lead (mg/L)	0.015	0.0084	0.006	0.0064	NS	NS	NS	NS	
Mercury (mg/L)	0.002	<0.00020	<0.00020	<0.0002	NS	NS	NS	NS	
Nickel (mg/L)	0.140	<0.020	<0.020	<0.020	NS	NS	NS	NS	
Selenium (mg/L)	0.020	<0.020	<0.020	<0.020	NS	NS	NS	NS	
Silver (mg/L)	NNS	<0.010	<0.010	<0.010	NS	NS	NS	NS	
Zinc (mg/L)	2.10	0.053	0.14	4.7	NS	NS	NS	NS	
Organic Toxic Pollutants									
Total Petroleum Hydrocarbons (TPH) (mg/L)	NNS	0.73	2.7	0.32	NS	NS	NS	0.29	
Oil & Grease (Hexane Extr) (mg/L)	NNS	<5.0	<5.9	<5.3	NS	NS	NS	7.3	
Chlorine, residual (mg/L)	0.70000	0.2	<0.10	<0.10	NS	NS	NS	NS	

Appendix G
Monitoring Data

RECEIVING WATER: Skunk Creek (a reach of Cave Creek) WATERSHED: Middle Gila DESIGNATED USES: A&We, PBC AUTOSAMPLER STARTUP DATE: July 13, 2011 (previous sampling conducted with passive samplers)		Summer: June 1- October 31 Winter: November 1- May 31							
		Winter 2008-09	Summer 2009	Winter 2009-10	Summer 2010	Winter 2010-11	Summer 2011	Winter 2011-12	Summer 2012
SAMPLING DATE		12/17/08	7/21/09	2/28/10	NS	NS	NS	11/5/11	
VOCs, Semi-VOCs and Pesticides									
Benzene (mg/L)	0.0050	<0.00050	<0.00050	<0.0010	NS	NS	NS	<0.50	
Ethylbenzene (mg/L)	0.0050	0.00068	<0.00050	<0.0010	NS	NS	NS	<1.0	
Toluene (mg/L)	1.00	<0.0050	<0.0050	<0.0050	NS	NS	NS	<1.0	
Total Xylene (mg/L)	10.00	0.0039	<0.0015	<0.0030	NS	NS	NS	<1.5	
Chromium, Trivalent (mg/L)	NNS	<0.010	<0.010	-	NS	NS	NS	NS	
MBAS (mg/L)	NNS	0.3	1.1	<1.0	NS	NS	NS	NS	
Endrin ketone (mg/L)	NNS	<0.00050	<0.000050	<0.000050	NS	NS	NS	NS	
Hexachlorobenzene (mg/L)	0.001	<0.00050	<0.000050	<0.000050	NS	NS	NS	NS	
Methoxychlor (mg/L)	0.004	<0.00050	<0.000050	<0.000050	NS	NS	NS	NS	
Benzidine (mg/L)	0.000	<0.050	<0.050	<0.010	NS	NS	NS	NS	
Bis(2-chlorethoxy)methane (mg/L)	NNS	<0.010	<0.010	<0.010	NS	NS	NS	NS	
Bis(2-chloroethyl)ether (mg/L)	0.030	<0.010	<0.010	<0.010	NS	NS	NS	NS	
Bis(2-chloroisopropyl)ether (mg/L)	0.280	<0.010	<0.010	<0.010	NS	NS	NS	NS	
4-Bromophenyl-phenylether (mg/L)	NNS	<0.010	<0.010	<0.010	NS	NS	NS	NS	
2-Chloronaphthalene (mg/L)	NNS	<0.010	<0.010	<0.0010	NS	NS	NS	NS	
4-Chlorophenyl-phenylether (mg/L)	NNS	<0.010	<0.010	<0.010	NS	NS	NS	NS	
3,3-Dichlorobenzidine (mg/L)	0.0031	<0.010	<0.010	<0.010	NS	NS	NS	NS	
2,4-Dinitrotoluene (mg/L)	0.0140	<0.010	<0.010	<0.010	NS	NS	NS	NS	
2,6-Dinitrotoluene (mg/L)	0.0001	<0.010	<0.010	<0.010	NS	NS	NS	NS	

Appendix G
Monitoring Data

RECEIVING WATER: Skunk Creek (a reach of Cave Creek) WATERSHED: Middle Gila DESIGNATED USES: A&We, PBC AUTOSAMPLER STARTUP DATE: July 13, 2011 (previous sampling conducted with passive samplers)		Summer: June 1- October 31 Winter: November 1- May 31							
		Winter 2008-09	Summer 2009	Winter 2009-10	Summer 2010	Winter 2010-11	Summer 2011	Winter 2011-12	Summer 2012
SAMPLING DATE		12/17/08	7/21/09	2/28/10	NS	NS	NS	11/5/11	
Hexachlorobenzene (mg/L)	0.0010	<0.010	<0.010	<0.010	NS	NS	NS	NS	
Hexachloro-1,3-butadiene (mg/L)	NNS	<0.010	<0.010	<0.010	NS	NS	NS	NS	
Hexachlorocyclopentadiene (mg/L)	0.0500	<0.010	<0.010	<0.010	NS	NS	NS	NS	
Hexachloroethane (mg/L)	0.0025	<0.010	<0.010	<0.010	NS	NS	NS	NS	
Indeno(1,2,3-cd)pyrene (mg/L)	0.0005	<0.0010	<0.010	<0.0010	NS	NS	NS	NS	
Isophorone (mg/L)	0.0370	<0.010	<0.010	<0.010	NS	NS	NS	NS	
Nitrobenzene (mg/L)	0.0035	<0.010	<0.010	<0.010	NS	NS	NS	NS	
n-Nitrosodimethylamine (mg/L)	0.0080	<0.050	<0.050	<0.010	NS	NS	NS	NS	
n-Nitrosodiphenylamine (mg/L)	0.0071	<0.010	<0.010	<0.010	NS	NS	NS	NS	
n-Nitrosodi-n-propylamine (mg/L)	0.0050	<0.010	<0.010	<0.010	NS	NS	NS	NS	
Benzylbutyl phthalate (mg/L)	NNS	<0.010	<0.010	<0.0010	NS	NS	NS	NS	
Bis(2-ethylhexyl)phthalate (mg/L)	NNS	<0.010	<0.010	<0.0010	NS	NS	NS	NS	
1,2,4-Trichlorobenzene (mg/L)	0.070	<0.010	<0.010	<0.010	NS	NS	NS	NS	
4-Chloro-3-methylphenol (mg/L)	NNS	<0.010	<0.010	<0.010	NS	NS	NS	NS	
4,6-Dinitro-2-methylphenol (mg/L)	NNS	<0.010	<0.010	<0.010	NS	NS	NS	NS	

Appendix G
Monitoring Data

RECEIVING WATER: Skunk Creek (a reach of Cave Creek) WATERSHED: Middle Gila DESIGNATED USES: A&We, PBC AUTOSAMPLER STARTUP DATE: July 13, 2011 (previous sampling conducted with passive samplers)		Summer: June 1- October 31 Winter: November 1- May 31							
		Winter 2008-09	Summer 2009	Winter 2009-10	Summer 2010	Winter 2010-11	Summer 2011	Winter 2011-12	Summer 2012
SAMPLING DATE		12/17/08	7/21/09	2/28/10	NS	NS	NS	11/5/11	
Acid Compounds									
2-Chlorophenol (mg/L)	0.035	<0.010	<0.010	<0.010	NS	NS	NS	NS	
2,4-Dichlorophenol (mg/L)	0.021	<0.010	<0.010	<0.010	NS	NS	NS	NS	
2,4-Dimethylphenol (mg/L)	0.140	<0.010	<0.010	<0.010	NS	NS	NS	NS	
4,6-Dinitrocreosol (mg/L)	NNS	NS	NS	NS	NS	NS	NS	NS	
2,4-Dinitrophenol (mg/L)	0.014	<0.010	<0.010	<0.010	NS	NS	NS	NS	
2-Nitrophenol (mg/L)	NNS	<0.010	<0.010	<0.010	NS	NS	NS	NS	
4-Nitrophenol (mg/L)	NNS	<0.010	<0.010	<0.010	NS	NS	NS	NS	
P-Chloro-m-cresol (mg/L)	NNS	NS	NS	NS	NS	NS	NS	NS	
Pentachlorophenol (mg/L)	0.001	<0.010	<0.010	<0.010	NS	NS	NS	NS	
Phenol (mg/L)	4.20	<0.010	<0.010	<0.010	NS	NS	NS	NS	
2,4,6-Trichlorophenol (mg/L)	0.00320	<0.010	<0.010	<0.010	NS	NS	NS	NS	
Bases/Neutrals									
Acenaphthene (mg/L)	0.42	<0.0010	<0.010	<0.0010	NS	NS	NS	NS	
Acenaphthylene (mg/L)	NNS	<0.0010	<0.010	<0.0010	NS	NS	NS	NS	
Anthracene (mg/L)	2.10	<0.0010	<0.010	<0.0010	NS	NS	NS	NS	
Benzo(a)anthracene (mg/L)	0.00190	<0.0010	<0.010	<0.0010	NS	NS	NS	NS	
Benzo(a)pyrene (mg/L)	0.00020	<0.0010	<0.010	<0.0010	NS	NS	NS	NS	
Benzo(b)fluoranthene (mg/L)	NNS	<0.0010	<0.010	<0.0010	NS	NS	NS	NS	
Benzo(g,h,i)perylene (mg/L)	NNS	<0.0010	<0.010	<0.0010	NS	NS	NS	NS	
Benzo(k)fluoranthene (mg/L)	0.0480	<0.0010	<0.010	<0.0010	NS	NS	NS	NS	
Chrysene (mg/L)	0.00479	<0.0010	<0.010	<0.0010	NS	NS	NS	NS	
Dibenzo(a,h)anthracene (mg/L)	0.00190	<0.0010	<0.010	<0.0010	NS	NS	NS	NS	
Diethyl phthalate (mg/L)	5.60	<0.010	<0.010	<0.0010	NS	NS	NS	NS	
Dimethyl phthalate (mg/L)	NNS	<0.010	<0.010	<0.0010	NS	NS	NS	NS	
Di-n-butyl phthalate (mg/L)	NNS	<0.010	<0.010	<0.0010	NS	NS	NS	NS	
Di-n-octyl phthalate (mg/L)	2.80	<0.010	<0.010	<0.0010	NS	NS	NS	NS	
1,2-Diphenylhydrazine (Azobenzene) (mg/L)	NNS	NS	NS	NS	NS	NS	NS	NS	
Fluoranthene (mg/L)	0.28	<0.0010	<0.010	<0.0010	NS	NS	NS	NS	
Fluorene (mg/L)	0.28	<0.0010	<0.010	<0.0010	NS	NS	NS	NS	
Indeno(1,2,3-cd)pyrene (mg/L)	NNS	NS	NS	NS	NS	NS	NS	NS	
Naphthalene (mg/L)	0.14	<0.0010	<0.010	<0.0010	NS	NS	NS	NS	
Phenanthrene (mg/L)	NNS	<0.0010	<0.010	<0.0010	NS	NS	NS	NS	
Pyrene (mg/L)	0.21	<0.0010	<0.010	<0.0010	NS	NS	NS	NS	

Appendix G
Monitoring Data

RECEIVING WATER: Skunk Creek (a reach of Cave Creek) WATERSHED: Middle Gila DESIGNATED USES: A&We, PBC AUTOSAMPLER STARTUP DATE: July 13, 2011 (previous sampling conducted with passive samplers)		Summer: June 1- October 31							Winter: November 1- May 31	
		Winter 2008-09	Summer 2009	Winter 2009-10	Summer 2010	Winter 2010-11	Summer 2011	Winter 2011-12	Summer 2012	
SAMPLING DATE		12/17/08	7/21/09	2/28/10	NS	NS	NS	11/5/11		
Pesticides										
Aldrin (mg/L)	0.0020	<0.00050	<0.00051	<0.000050	NS	NS	NS	NS		
Alpha BHC (mg/L)	NNS	<0.00050	<0.000050	<0.000050	NS	NS	NS	NS		
Beta BHC (mg/L)	NNS	<0.00050	<0.000050	<0.000050	NS	NS	NS	NS		
Delta BHC (mg/L)	NNS	<0.00050	<0.000050	<0.000050	NS	NS	NS	NS		
Gamma BHC (mg/L)	NNS	<0.00050	<0.000050	<0.000050	NS	NS	NS	NS		
Chlordane (mg/L)	0.0020	<0.0050	<0.00050	<0.00050	NS	NS	NS	NS		
4,4-DDD (mg/L)	NNS	<0.00050	<0.000050	<0.000050	NS	NS	NS	NS		
4,4-DDE (mg/L)	NNS	<0.00050	<0.000050	<0.000050	NS	NS	NS	NS		
4,4-DDT (mg/L)	NNS	<0.00050	<0.000050	<0.000050	NS	NS	NS	NS		
Dieldrin (mg/L)	0.0020	<0.00050	<0.000050	<0.000050	NS	NS	NS	NS		
Alpha-endosulfan (mg/L)	NNS	NS	NS	NS	NS	NS	NS	NS		
Beta-endosulfan (mg/L)	NNS	NS	NS	NS	NS	NS	NS	NS		
Endosulfan sulfate (mg/L)	NNS	<0.00050	<0.000050	<0.000050	NS	NS	NS	NS		
Endrin (mg/L)	0.0020	<0.00050	<0.000050	<0.000050	NS	NS	NS	NS		
Endrin aldehyde (mg/L)	NNS	<0.00050	0.000088	<0.000050	NS	NS	NS	NS		
Heptachlor (mg/L)	0.00040	<0.00050	<0.000050	<0.000050	NS	NS	NS	NS		
Heptachlor epoxide (mg/L)	0.00020	<0.00050	<0.000050	<0.000050	NS	NS	NS	NS		
Toxaphene (mg/L)	NNS	<0.010	<0.00050	<0.00050	NS	NS	NS	NS		

NS - Not Sampled

LABORATORY REPORT

Prepared For: Engineering and Environmental Consultants Phoenix
7878 N. 16th Street, Suite 140
Phoenix, AZ 85020
Attention: John Burton

Project: 308032.05

Sampled: 11/05/11
Received: 11/07/11
Issued: 11/17/11 10:40

NELAP #01109CA 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, 2 pages, are included and are an integral part of this report. This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID

PUK0435-01

CLIENT ID

Phx11511

MATRIX

Water

SAMPLE RECEIPT: Samples were received intact, at 2°C, on ice and with chain of custody documentation.
Samples submitted for Cyanide analysis are tested for the presence of Sulfides within 24 hours of sampling.

HOLDING TIMES: Not all holding times were met. Results were qualified where the sample analysis did not occur within method specified holding time requirements.
The sample submitted for Cyanide analysis was received and tested for the presence of Sulfides after the 24 hour hold time had expired.

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

Carlene McCutcheon
Project Manager

Engineering and Environmental Consultants Phoenix Project ID: 308032.05
7878 N. 16th Street, Suite 140
Phoenix, AZ 85020 Report Number: PUK0435
Attention: John Burton

Sampled: 11/05/11
Received: 11/07/11

HEXANE EXTRACTABLE MATERIAL BY EPA METHOD 1664A

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUK0435-01 (Phx11511 - Water)								
Reporting Units: mg/l								
N-Hexane Extractable (HEM)	EPA 1664A	11K0432	5.0	7.3	1	11/10/2011	11/10/2011	

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Project Manager

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PUK0435 <Page 2 of 13>

Engineering and Environmental Consultants Phoenix Project ID: 308032.05
7878 N. 16th Street, Suite 140
Phoenix, AZ 85020 Report Number: PUK0435
Attention: John Burton

Sampled: 11/05/11
Received: 11/07/11

EXTRACTABLE FUEL HYDROCARBONS (EPA 3510/8015D)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUK0435-01 (Phx11511 - Water)								
Reporting Units: mg/l								
Extractable Fuel Hydrocarbons (C10 - C32)	EPA 8015D	11K0333	0.10	0.29	1	11/8/2011	11/9/2011	
Surrogate: <i>o</i> -terphenyl (40-145%)				75 %				

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PUK0435 <Page 3 of 13>

Engineering and Environmental Consultants Phoenix Project ID: 308032.05
7878 N. 16th Street, Suite 140
Phoenix, AZ 85020 Report Number: PUK0435
Attention: John Burton

Sampled: 11/05/11
Received: 11/07/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUK0435-01 (Phx11511 - Water)								
Reporting Units: mg/l								
Cyanide, Total	SM 4500CN-E	11K0368	0.0080	ND	1	11/9/2011	11/9/2011	

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PUK0435 <Page 4 of 13>

Engineering and Environmental Consultants Phoenix Project ID: 308032.05
7878 N. 16th Street, Suite 140
Phoenix, AZ 85020 Report Number: PUK0435
Attention: John Burton

Sampled: 11/05/11
Received: 11/07/11

MICROBIOLOGICALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUK0435-01 (Phx11511 - Water)								
Reporting Units: MPN/100 ml								
E. Coli - MPN	SM 9221F	11K0557	2	170	1	11/7/2011	11/9/2011	H3

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PUK0435 <Page 5 of 13>

Engineering and Environmental Consultants Phoenix Project ID: 308032.05
7878 N. 16th Street, Suite 140
Phoenix, AZ 85020 Report Number: PUK0435
Attention: John Burton

Sampled: 11/05/11
Received: 11/07/11

BTEX (EPA 5030B/8021B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUK0435-01 (Phx11511 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8021B	11K0490	0.50	ND	1	11/14/2011	11/14/2011	
Toluene	EPA 8021B	11K0490	1.0	ND	1	11/14/2011	11/14/2011	
Ethylbenzene	EPA 8021B	11K0490	1.0	ND	1	11/14/2011	11/14/2011	
Total Xylenes	EPA 8021B	11K0490	1.5	ND	1	11/14/2011	11/14/2011	
<i>Surrogate: 4-BFB (PID) (70-130%)</i>				112 %				

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PUK0435 <Page 6 of 13>

Engineering and Environmental Consultants Phoenix Project ID: 308032.05
7878 N. 16th Street, Suite 140
Phoenix, AZ 85020 Report Number: PUK0435
Attention: John Burton

Sampled: 11/05/11
Received: 11/07/11

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: Phx11511 (PUK0435-01) - Water SM 9221F	0	11/05/2011 07:34	11/07/2011 11:04	11/07/2011 12:30	11/09/2011 11:50

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PUK0435 <Page 7 of 13>

Engineering and Environmental Consultants Phoenix Project ID: 308032.05
 7878 N. 16th Street, Suite 140
 Phoenix, AZ 85020 Report Number: PUK0435
 Attention: John Burton

Sampled: 11/05/11
 Received: 11/07/11

METHOD BLANK/QC DATA

HEXANE EXTRACTABLE MATERIAL BY EPA METHOD 1664A

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11K0432 Extracted: 11/10/11										
Blank Analyzed: 11/10/2011 (11K0432-BLK1)										
N-Hexane Extractable (HEM)	ND	5.0	mg/l							
LCS Analyzed: 11/10/2011 (11K0432-BS1)										
N-Hexane Extractable (HEM)	39.6	5.0	mg/l	40.0		99	78-114			
LCS Dup Analyzed: 11/10/2011 (11K0432-BSD1)										
N-Hexane Extractable (HEM)	40.8	5.0	mg/l	40.0		102	78-114	3	18	
Matrix Spike Analyzed: 11/10/2011 (11K0432-MS1)										
N-Hexane Extractable (HEM)	34.4	5.0	mg/l	40.0	ND	86	78-114			

Source: PUK0293-05

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Engineering and Environmental Consultants Phoenix Project ID: 308032.05
 7878 N. 16th Street, Suite 140
 Phoenix, AZ 85020 Report Number: PUK0435
 Attention: John Burton

Sampled: 11/05/11
 Received: 11/07/11

METHOD BLANK/QC DATA

EXTRACTABLE FUEL HYDROCARBONS (EPA 3510/8015D)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11K0333 Extracted: 11/08/11										
Blank Analyzed: 11/09/2011 (11K0333-BLK1)										
Extractable Fuel Hydrocarbons (C10 - C32)	ND	0.10	mg/l							
Surrogate: o-terphenyl	0.0831		mg/l	0.100		83	40-145			
LCS Analyzed: 11/09/2011 (11K0333-BS1)										
Extractable Fuel Hydrocarbons (C10 - C32)	0.338	0.10	mg/l	0.400		84	70-130			Q8
Surrogate: o-terphenyl	0.0852		mg/l	0.100		85	70-130			
LCS Dup Analyzed: 11/09/2011 (11K0333-BSD1)										
Extractable Fuel Hydrocarbons (C10 - C32)	0.373	0.10	mg/l	0.400		93	70-130	10	20	Q8
Surrogate: o-terphenyl	0.0871		mg/l	0.100		87	70-130			

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Engineering and Environmental Consultants Phoenix Project ID: 308032.05
 7878 N. 16th Street, Suite 140
 Phoenix, AZ 85020 Report Number: PUK0435
 Attention: John Burton

Sampled: 11/05/11
 Received: 11/07/11

METHOD BLANK/QC DATA

BTEX (EPA 5030B/8021B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11K0490 Extracted: 11/14/11										
Blank Analyzed: 11/14/2011 (11K0490-BLK1)										
Benzene	ND	0.50	ug/l							
Toluene	ND	1.0	ug/l							
Ethylbenzene	ND	1.0	ug/l							
Total Xylenes	ND	1.5	ug/l							
Surrogate: 4-BFB (PID)	93.4		ug/l	80.0		117	70-130			
LCS Analyzed: 11/14/2011 (11K0490-BS1)										
Benzene	18.4	0.50	ug/l	20.0		92	70-130			Q8
Toluene	18.9	1.0	ug/l	20.0		95	70-130			
Ethylbenzene	19.4	1.0	ug/l	20.0		97	70-130			
Total Xylenes	58.9	1.5	ug/l	60.0		98	70-130			
Surrogate: 4-BFB (PID)	94.8		ug/l	80.0		119	70-130			
LCS Dup Analyzed: 11/14/2011 (11K0490-BSD1)										
Benzene	22.5	0.50	ug/l	20.0		113	70-130	20	20	Q8
Toluene	23.2	1.0	ug/l	20.0		116	70-130	20	20	
Ethylbenzene	23.5	1.0	ug/l	20.0		118	70-130	19	20	
Total Xylenes	71.3	1.5	ug/l	60.0		119	70-130	19	20	
Surrogate: 4-BFB (PID)	94.6		ug/l	80.0		118	70-130			

TestAmerica Phoenix

Carlene McCutcheon
 Project Manager

Engineering and Environmental Consultants Phoenix Project ID: 308032.05
 7878 N. 16th Street, Suite 140
 Phoenix, AZ 85020 Report Number: PUK0435
 Attention: John Burton

Sampled: 11/05/11
 Received: 11/07/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11K0368 Extracted: 11/09/11										
Blank Analyzed: 11/09/2011 (11K0368-BLK1)										
Cyanide, Total	ND	0.0080	mg/l							
LCS Analyzed: 11/09/2011 (11K0368-BS1)										
Cyanide, Total	0.108	0.0080	mg/l	0.100		108	90-110			
LCS Dup Analyzed: 11/09/2011 (11K0368-BSD1)										
Cyanide, Total	0.100	0.0080	mg/l	0.100		100	90-110	7	20	
Matrix Spike Analyzed: 11/09/2011 (11K0368-MS1)										
Cyanide, Total	0.100	0.0080	mg/l	0.100	ND	100	80-120			
Matrix Spike Dup Analyzed: 11/09/2011 (11K0368-MSD1)										
Cyanide, Total	0.112	0.0080	mg/l	0.100	ND	112	80-120	11	20	

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Engineering and Environmental Consultants Phoenix Project ID: 308032.05
7878 N. 16th Street, Suite 140
Phoenix, AZ 85020 Report Number: PUK0435
Attention: John Burton

Sampled: 11/05/11
Received: 11/07/11

DATA QUALIFIERS AND DEFINITIONS

- H3** Sample was received and analyzed past holding time.
- Q8** Insufficient sample received to meet method QC requirements. Batch QC requirements satisfy ADEQ policies
0154.000 and 0155.000.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

ADDITIONAL COMMENTS

For Extractable Fuel Hydrocarbons (EFH, DRO, ORO) :

Unless otherwise noted, Extractable Fuel Hydrocarbons (EFH, DRO, ORO) are quantitated against a Diesel Fuel Standard.

TestAmerica Phoenix

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Project Manager

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PUK0435 <Page 12 of 13>

Engineering and Environmental Consultants Phoenix Project ID: 308032.05
7878 N. 16th Street, Suite 140
Phoenix, AZ 85020 Report Number: PUK0435
Attention: John Burton

Sampled: 11/05/11
Received: 11/07/11

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 1664A	Water		X
EPA 8015D	Water		X
EPA 8021B	Water	X	X
SM 4500CN-E	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 Phoenix

Carlene McCutcheon
Project Manager

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
 Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

PUK0435 - Revised

Page 1 of 1

Client Name/Address:		Project/PO Number:			Analysis Required						Turnaround Time: (Check)																												
EEC 2878 N. 16th St, #140 Phoenix, AZ 85020 Project Manager: John Burton Sampler: John Burton		308032.05 Phone Number: 602-248-7702 Fax Number: 602-248-7651			<table border="1"> <tr> <th>Sample Matrix</th> <th>Container Type</th> <th># of Cont.</th> <th>Sampling Date</th> <th>Sampling Time</th> <th>Preservatives</th> <th>1500 mg Zn</th> <th>TPH</th> <th>TPH</th> <th>TPH</th> <th>TPH</th> <th>TPH</th> <th>TPH</th> </tr> <tr> <td>SW</td> <td>VARIABLE</td> <td>6</td> <td>11-2-11</td> <td>0734</td> <td>As-Noted</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> </table>						Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	1500 mg Zn	TPH	TPH	TPH	TPH	TPH	TPH	SW	VARIABLE	6	11-2-11	0734	As-Noted	X	X	X	X	X	X	X	same day _____ 72 hours _____ 24 hours _____ 5 days _____ 48 hours _____ normal _____ X		
Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	1500 mg Zn	TPH	TPH	TPH	TPH	TPH	TPH																											
SW	VARIABLE	6	11-2-11	0734	As-Noted	X	X	X	X	X	X	X																											
Relinquished By: John Burton Date/Time: 11-2-11 10:47		Received By: John Burton Date/Time: 11-7-11 11:04									Sample Integrity: (Check) intact _____ on ice _____ X 2.1°C																												
Relinquished By: John Burton Date/Time: 11-2-11 10:47		Received By: John Burton Date/Time: 11-7-11 11:04									Sample Integrity: (Check) intact _____ on ice _____ X 2.1°C																												
Relinquished By: John Burton Date/Time: 11-2-11 10:47		Received By: John Burton Date/Time: 11-7-11 11:04									Sample Integrity: (Check) intact _____ on ice _____ X 2.1°C																												

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.

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

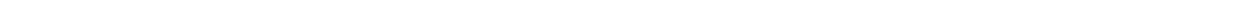
[M] Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
 [T] Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
 [L] Las Vegas - 6000 S. Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

Page 1 of 1

Client Name / Address:		Project/PO Number:		Analysis Required														
EBC 2878 N. 16th St. #110 Phoenix, AZ 85020		308032.05																
Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	0-1 & Grease HCL	TPH	Oil & Grease HCL	BTEX BOAI B	Use water from bottles	Special Instructions	Turnaround Time: (Check)	Sample Integrity: (Check)					
SLW	VARIABLE	6	11-3-11 0734	AS-MAILED		X	X	X	X	X	Run All Note-Add BTEX 7-B	72 hours	on ice					
7B											- Revised Sample Name 7B	same day	X 2.1					
												24 hours						
												48 hours						
												normal						
												intact						
Relinquished By: <i>John Smith</i>		Date/Time: 11-24-10 0747		Received By: <i>John Smith</i>		Date/Time: 11-24-10 0747		Turnaround Time: (Check)		Sample Integrity: (Check)								
Relinquished By: <i>John Smith</i>		Date/Time: 11-24-10 0747		Received By: <i>John Smith</i>		Date/Time: 11-24-10 0747												
Relinquished By: <i>John Smith</i>		Date/Time: 11-24-10 0747		Received In Lab By: <i>John Smith</i>		Date/Time: 11-24-10 0747												

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.

Tucson



Appendix G
Monitoring Data

OUTFALL ID: Tucson MS4 Grant Road RECEIVING WATER: Santa Cruz WATERSHED: Sanata Cruz DESIGNATED USES: A&We, PBC AUTOSAMPLER STARTUP DATE: March 21, 2011 (previous sampling conducted with passive samplers)		MONITORING SEASONS						
		Summer: June 1 - October 31 Winter: November 1 - May 31						
		Winter 2008-09	Summer 2009	Winter 2009-10	Summer 2010	Winter 2010-11	Summer 2011	Winter 2011-12
SAMPLING DATE		12/1/08	6/30/09	4/23/10	NS	NS	NS	11/7/11
MONITORING PARAMETERS	WQS							
Flow	NNS	-	-	-	NS	NS	NS	276
pH	6.5-8.5	-	-	7.3	NS	NS	NS	7.1
Temperature (F°)	NNS	62.3	88.1	64.4	NS	NS	NS	65.1
Hardness	NNS	250		470	NS	NS	NS	NS
Specific conductance (mg/L)	500	NS	NS	NS	NS	NS	NS	235
Total Dissolved Solids (TDS) (mg/L)	500	680*	680*	910	NS	NS	NS	NS
Total Suspended Solids (TSS) (mg/L)	NNS	110	160	130	NS	NS	NS	NS
Turbidity (NTU)	NNS	94	-	58	NS	NS	NS	NS
Biochemical Oxygen Demand (BOD) (mg/L)	NNS	65	44	90	NS	NS	NS	NS
Chemical Oxygen Demand (COD) (mg/L)	NNS	560	640	490	NS	NS	NS	NS
Surfactants (mg/L)	NNS	NS	NS	NS	NS	NS	NS	NS
Inorganics								
Cyanide, total (mg/L)	0.2	0.0059	<0.0050	<0.10	NS	NS	NS	<0.0080
Sulfates (mg/L)	250	110	68	-	NS	NS	NS	NS
Nutrients								
Nitrate (mg/L)	1	<0.10	0.21	9.9	NS	NS	NS	NS
Nitrite (mg/L)	10	<0.10	<0.10	1.9	NS	NS	NS	NS
Total Ammonia (mg/L)	NNS	6.2	6.7	<0.50	NS	NS	NS	NS
Total Kjeldahl Nitrogen (TKN) (mg/L)	NNS	12	14	7.8	NS	NS	NS	NS
Total Phosphorous (mg/L)	NNS	0.42	0.36	0.58	NS	NS	NS	NS
Phosphate, Ortho (mg/L)	NNS	0.62	<0.12	310	NS	NS	NS	NS
Sodium (mg/L)	NNS	-	18	18	NS	NS	NS	NS
Calcium (mg/L)	NNS	-	100	150	NS	NS	NS	NS
Chloride (mg/L)	10	26	19	14	NS	NS	NS	NS

Appendix G
Monitoring Data

RECEIVING WATER: Santa Cruz WATERSHED: Sanata Cruz DESIGNATED USES: A&We, PBC AUTOSAMPLER STARTUP DATE: March 21, 2011 (previous sampling conducted with passive samplers)		Summer: June 1 - October 31 Winter: November 1 - May 31						
		Winter 2008-09	Summer 2009	Winter 2009-10	Summer 2010	Winter 2010-11	Summer 2011	Winter 2011-12
SAMPLING DATE		12/1/08	6/30/09	4/23/10	NS	NS	NS	11/7/11
Microbiological								
Coliform, fecal (col/100 ml)	NNS	-	-	2400*	NS	NS	NS	NS
E.Coli (cfu/100 ml)	100.00	-	-	390	NS	NS	NS	<2
Total Metals								
Antimony (mg/L)	0.00600	-	0.0046	<0.20	NS	NS	NS	NS
Arsenic (mg/L)	0.05000	<0.020	0.003	<0.040	NS	NS	NS	NS
Barium (mg/L)	2.0T	0.2	0.2	0.2	NS	NS	NS	NS
Beryllium (mg/L)	0.00400	<0.0050	<0.0020	<0.0020	NS	NS	NS	NS
Cadmium (mg/L)	0.00500	-	<0.0050	<0.0020	NS	NS	NS	NS
Chromium (mg/L)	0.1T	<0.010	<0.010	<0.030	NS	NS	NS	NS
Copper (mg/L)	1.3T	-	0.033	0.13	NS	NS	NS	NS
Lead (mg/L)	0.015T	0.015	<0.0050	<0.040	NS	NS	NS	NS
Mercury (mg/L)	0.00200	<0.00020	<0.00020	<0.0010	NS	NS	NS	NS
Nickel (mg/L)	0.14000	-	<0.020	<0.050	NS	NS	NS	NS
Selenium (mg/L)	0.02000	<0.020	0.02	<0.040	NS	NS	NS	NS
Silver (mg/L)	NNS	<0.010	<0.010	<0.010	NS	NS	NS	NS
Zinc (mg/L)	2.1T	-	0.18	0.41	NS	NS	NS	NS
Organic Toxic Pollutants								
Total Petroleum Hydrocarbons (TPH) (mg/L)	NNS	6.2	-	-	NS	NS	NS	1.8
Oil & Grease (Hexane Extr) (mg/L)	NNS	<5.6	<6.7	9.2	NS	NS	NS	9.9
Chlorine, residual (mg/L)	0.7	<0.10	-	<0.10	NS	NS	NS	NS

Appendix G
Monitoring Data

RECEIVING WATER: Santa Cruz WATERSHED: Sanata Cruz DESIGNATED USES: A&We, PBC AUTOSAMPLER STARTUP DATE: March 21, 2011 (previous sampling conducted with passive samplers)		Summer: June 1 - October 31 Winter: November 1 - May 31						
		Winter 2008-09	Summer 2009	Winter 2009-10	Summer 2010	Winter 2010-11	Summer 2011	Winter 2011-12
SAMPLING DATE		12/1/08	6/30/09	4/23/10	NS	NS	NS	11/7/11
VOCs, Semi-VOCs and Pesticides								
Benzene (mg/L)	0.005	<0.0010	<0.00050	<0.50	NS	NS	NS	<0.50
Ethylbenzene (mg/L)	0.70000	<0.0010	<0.00050	<0.50	NS	NS	NS	<1.0
Toluene (mg/L)	1.00000	<0.0050	<0.0050	<0.50	NS	NS	NS	<1.0
Total Xylene (mg/L)	10.00000	<0.0030	<0.0015	<0.50	NS	NS	NS	<1.5
Chromium, Hexavalent (mg/L)	NNS	-	<0.010	-	NS	NS	NS	NS
Chromium, Trivalent (mg/L)	NNS	-	<0.010	-	NS	NS	NS	NS
MBAS (mg/L)	NNS	-	11	-	NS	NS	NS	NS
Specific conductance (mg/L)	NNS	720	690	1000	NS	NS	NS	NS
Total Nitrogen (mg/L)	NNS	12	-	11.8	NS	NS	NS	NS
Toluene - d8 (mg/L)	NNS	99	-	<0.50	NS	NS	NS	NS
Dibromofluoromethane (mg/L)	TTHM	100	-	-	NS	NS	NS	NS
Endrin ketone (mg/L)	NNS	-	<0.000050	<0.96	NS	NS	NS	NS
Hexachlorobenzene (mg/L)	0.00100	-	<0.000050	<96	NS	NS	NS	NS
Methoxychlor (mg/L)	0.00400	-	<0.000050	<96	NS	NS	NS	NS
Benzidine (mg/L)	0.00020	-	<0.050	<96	NS	NS	NS	NS
Bis(2-chlorethoxy)methane (mg/L)	NNS	-	<0.010	<96	NS	NS	NS	NS
Bis(2-chloroethyl)ether (mg/L)	0.03000	-	<0.010	<96	NS	NS	NS	NS
Bis(2-chloroisopropyl)ether (mg/L)	0.28000	-	<0.010	<96	NS	NS	NS	NS
4-Bromophenyl-phenylether (mg/L)	NNS	-	<0.010	<96	NS	NS	NS	NS
2-Chloronaphthalene (mg/L)	NNS	-	<0.010	<96	NS	NS	NS	NS
4-Chlorophenyl-phenylether (mg/L)	NNS	-	<0.010	<96	NS	NS	NS	NS
3,3-Dichlorobenzidine (mg/L)	0.00310	-	<0.010	<190	NS	NS	NS	NS
2,4-Dinitrotoluene (mg/L)	0.01400	-	<0.010	<96	NS	NS	NS	NS
2,6-Dinitrotoluene (mg/L)	0.00005	-	<0.010	<96	NS	NS	NS	NS
Hexachlorobenzene (mg/L)	0.00100	-	<0.010	<96	NS	NS	NS	NS
Hexachloro-1,3-butadiene (mg/L)	NNS	-	<0.010	<96	NS	NS	NS	NS
Hexachlorocyclopentadiene (mg/L)	0.05000	-	<0.010	<96	NS	NS	NS	NS
Hexachloroethane (mg/L)	0.00250	-	<0.010	<96	NS	NS	NS	NS
Isophorone (mg/L)	0.03700	-	<0.010	<96	NS	NS	NS	NS
Nitrobenzene (mg/L)	0.00350	-	<0.010	<96	NS	NS	NS	NS
n-Nitrosodimethylamine (mg/L)	0.00800	-	<0.050	<96	NS	NS	NS	NS
n-Nitrosodiphenylamine (mg/L)	0.00710	-	<0.010	<96	NS	NS	NS	NS

Appendix G
Monitoring Data

RECEIVING WATER: Santa Cruz WATERSHED: Sanata Cruz DESIGNATED USES: A&We, PBC AUTOSAMPLER STARTUP DATE: March 21, 2011 (previous sampling conducted with passive samplers)		Summer: June 1 - October 31 Winter: November 1 - May 31						
		Winter 2008-09	Summer 2009	Winter 2009-10	Summer 2010	Winter 2010-11	Summer 2011	Winter 2011-12
SAMPLING DATE		12/1/08	6/30/09	4/23/10	NS	NS	NS	11/7/11
n-Nitrosodi-n-propylamine (mg/L)	0.00500	-	<0.010	<96	NS	NS	NS	NS
Benzylbutyl phthalate (mg/L)	NNS	-	<0.010	<96	NS	NS	NS	NS
Bis(2-ethylhexyl)phthalate (mg/L)	NNS	-	<0.010	<96	NS	NS	NS	NS
1,2,4-Trichlorobenzene (mg/L)	0.07000	-	<0.010	<96	NS	NS	NS	NS
4-Chloro-3-methylphenol (mg/L)	NNS	-	<0.010	<96	NS	NS	NS	NS
4,6-Dinitro-2-methylphenol (mg/L)	NNS	-	<0.010	<190	NS	NS	NS	NS
Acid Compounds								
2-Chlorophenol (mg/L)	0.03500	-	<0.010	<96	NS	NS	NS	NS
2,4-Dichlorophenol (mg/L)	0.02100	-	<0.010	<96	NS	NS	NS	NS
2,4-Dimethylphenol (mg/L)	0.14000	-	<0.010	<96	NS	NS	NS	NS
2,4-Dinitrophenol (mg/L)	0.01400	-	<0.010	<480	NS	NS	NS	NS
2-Nitrophenol (mg/L)	NNS	-	<0.010	<96	NS	NS	NS	NS
4-Nitrophenol (mg/L)	NNS	-	<0.010	<480	NS	NS	NS	NS
Pentachlorophenol (mg/L)	0.00100	-	<0.010	<290	NS	NS	NS	NS
Phenol (mg/L)	4.20000	-	<0.010	<96	NS	NS	NS	NS
2,4,6-Trichlorophenol (mg/L)	0.00320	-	<0.010	<96	NS	NS	NS	NS

Appendix G
Monitoring Data

RECEIVING WATER: Santa Cruz WATERSHED: Sanata Cruz DESIGNATED USES: A&We, PBC AUTOSAMPLER STARTUP DATE: March 21, 2011 (previous sampling conducted with passive samplers)		Summer: June 1 - October 31 Winter: November 1 - May 31						
		Winter 2008-09	Summer 2009	Winter 2009-10	Summer 2010	Winter 2010-11	Summer 2011	Winter 2011-12
SAMPLING DATE		12/1/08	6/30/09	4/23/10	NS	NS	NS	11/7/11
Bases/Neutrals								
Acenaphthene (mg/L)	0.42000	-	<0.010	<48	NS	NS	NS	NS
Acenaphthylene (mg/L)	NNS	-	<0.010	<48	NS	NS	NS	NS
Anthracene (mg/L)	2.10000	-	<0.010	<48	NS	NS	NS	NS
Benzo(a)anthracene (mg/L)	0.00190	-	<0.010	<48	NS	NS	NS	NS
Benzo(a)pyrene (mg/L)	0.00020	-	<0.010	<48	NS	NS	NS	NS
Benzo(b)fluoranthene (mg/L)	NNS	-	<0.010	<96	NS	NS	NS	NS
Benzo(g,h,i)perylene (mg/L)	NNS	-	<0.010	<48	NS	NS	NS	NS
Benzo(k)fluoranthene (mg/L)	0.04800	-	<0.010	<96	NS	NS	NS	NS
Chrysene (mg/L)	0.00479	-	<0.010	<48	NS	NS	NS	NS
Dibenz(a,h)anthracene (mg/L)	0.00190	-	<0.010	<48	NS	NS	NS	NS
Diethyl phthalate (mg/L)	5.60000	-	<0.010	<96	NS	NS	NS	NS
Dimethyl phthalate (mg/L)	NNS	-	<0.010	<96	NS	NS	NS	NS
Di-n-butyl phthalate (mg/L)	NNS	-	<0.010	<96	NS	NS	NS	NS
Di-n-octyl phthalate (mg/L)	2.80000	-	<0.010	<96	NS	NS	NS	NS
Fluoranthene (mg/L)	0.28000	-	<0.010	<48	NS	NS	NS	NS
Fluorene (mg/L)	0.28000	-	<0.010	<48	NS	NS	NS	NS
Indeno(1,2,3-cd)pyrene (mg/L)	0.00048	-	<0.010	<48	NS	NS	NS	NS
Naphthalene (mg/L)	0.14000	-	<0.010	<48	NS	NS	NS	NS
Phenanthrene (mg/L)	NNS	-	<0.010	<48	NS	NS	NS	NS
Pyrene (mg/L)	0.21000	-	<0.010	<48	NS	NS	NS	NS

Appendix G
Monitoring Data

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

NS - Not Sampled;

LABORATORY REPORT

Prepared For: Engineering and Environmental Consultants Phoenix
7878 N. 16th Street, Suite 140
Phoenix, AZ 85020
Attention: John Burton

Project: ADOT S.W.

Sampled: 11/07/11
Received: 11/08/11
Issued: 11/17/11 09:46

NELAP #01109CA 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, 2 pages, are included and are an integral part of this report.
This entire report was reviewed and approved for release.*

CASE NARRATIVE

LABORATORY ID

PUK0544-01

CLIENT ID

TUC110711

MATRIX

Water

SAMPLE RECEIPT: Samples were received intact, at 6°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. Results were qualified where the sample container did not meet the method preservation requirements.

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

N1 SM4500-CN:The sample, as received, was not preserved in accordance to the referenced analytical method.
N1a SM4500-CN:The sample was received with a pH = 9.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

Reviewed By:



TestAmerica Phoenix

Carlene McCutcheon
Project Manager

Engineering and Environmental Consultants Phoenix Project ID: ADOT S.W.
7878 N. 16th Street, Suite 140
Phoenix, AZ 85020 Report Number: PUK0544
Attention: John Burton

Sampled: 11/07/11
Received: 11/08/11

HEXANE EXTRACTABLE MATERIAL BY EPA METHOD 1664A

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUK0544-01 (TUC110711 - Water)								
Reporting Units: mg/l								
N-Hexane Extractable (HEM)	EPA 1664A	11K0475	5.0	9.9	1	11/11/2011	11/11/2011	

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Engineering and Environmental Consultants Phoenix Project ID: ADOT S.W.
7878 N. 16th Street, Suite 140
Phoenix, AZ 85020 Report Number: PUK0544
Attention: John Burton

Sampled: 11/07/11
Received: 11/08/11

EXTRACTABLE FUEL HYDROCARBONS (EPA 3510/8015D)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUK0544-01 (TUC110711 - Water)								
Reporting Units: mg/l								
Extractable Fuel Hydrocarbons (C10 - C32)	EPA 8015D	11K0355	0.50	1.8	5	11/9/2011	11/9/2011	
Surrogate: o-terphenyl (40-145%)				70 %				

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Phoenix, AZ 85020
Attention: John Burton

Project ID: ADOT S.W.

Report Number: PUK0544

Sampled: 11/07/11

Received: 11/08/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUK0544-01 (TUC110711 - Water)								
Reporting Units: mg/l								
Cyanide, Total	SM 4500CN-E	11K0368	0.0080	ND	1	11/9/2011	11/9/2011	N1, N1a

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7878 N. 16th Street, Suite 140
Phoenix, AZ 85020 Report Number: PUK0544
Attention: John Burton

Sampled: 11/07/11
Received: 11/08/11

MICROBIOLOGICALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUK0544-01 (TUC110711 - Water)								
Reporting Units: MPN/100 ml								
E. Coli - MPN	SM 9221F	11K0585	2	ND	1	11/8/2011	11/10/2011	H3

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 Phoenix, AZ 85020
 Attention: John Burton

Project ID: ADOT S.W.

Report Number: PUK0544

Sampled: 11/07/11

Received: 11/08/11

BTEX (EPA 5030B/8021B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUK0544-01 (TUC110711 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8021B	11K0599	0.50	ND	1	11/15/2011	11/15/2011	
Toluene	EPA 8021B	11K0599	1.0	ND	1	11/15/2011	11/15/2011	
Ethylbenzene	EPA 8021B	11K0599	1.0	ND	1	11/15/2011	11/15/2011	
Total Xylenes	EPA 8021B	11K0599	1.5	ND	1	11/15/2011	11/15/2011	
<i>Surrogate: 4-BFB (PID) (70-130%)</i>				<i>112 %</i>				

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Engineering and Environmental Consultants Phoenix Project ID: ADOT S.W.
7878 N. 16th Street, Suite 140
Phoenix, AZ 85020 Report Number: PUK0544
Attention: John Burton

Sampled: 11/07/11
Received: 11/08/11

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: TUC110711 (PUK0544-01) - Water SM 9221F	0	11/07/2011 11:15	11/08/2011 09:45	11/08/2011 14:30	11/10/2011 14:10

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Phoenix, AZ 85020
Attention: John Burton

Project ID: ADOT S.W.

Report Number: PUK0544

Sampled: 11/07/11

Received: 11/08/11

METHOD BLANK/QC DATA

HEXANE EXTRACTABLE MATERIAL BY EPA METHOD 1664A

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11K0475 Extracted: 11/11/11										
Blank Analyzed: 11/11/2011 (11K0475-BLK1)										
N-Hexane Extractable (HEM)	ND	5.0	mg/l							
LCS Analyzed: 11/11/2011 (11K0475-BS1)										
N-Hexane Extractable (HEM)	36.2	5.0	mg/l	40.0		90	78-114			
LCS Dup Analyzed: 11/11/2011 (11K0475-BSD1)										
N-Hexane Extractable (HEM)	41.2	5.0	mg/l	40.0		103	78-114	13	18	
Matrix Spike Analyzed: 11/11/2011 (11K0475-MS1)										
N-Hexane Extractable (HEM)	23.0	5.0	mg/l	40.0	4.09	47	78-114			M2

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Report Number: PUK0544

Sampled: 11/07/11

Received: 11/08/11

METHOD BLANK/QC DATA

EXTRACTABLE FUEL HYDROCARBONS (EPA 3510/8015D)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11K0355 Extracted: 11/09/11										
Blank Analyzed: 11/09/2011 (11K0355-BLK1)										
Extractable Fuel Hydrocarbons (C10 - C32)	ND	0.10	mg/l							
Surrogate: o-terphenyl	0.0838		mg/l	0.100		84	40-145			
LCS Analyzed: 11/09/2011 (11K0355-BS1)										
Extractable Fuel Hydrocarbons (C10 - C32)	0.330	0.10	mg/l	0.400		83	70-130			
Surrogate: o-terphenyl	0.0860		mg/l	0.100		86	70-130			
LCS Dup Analyzed: 11/09/2011 (11K0355-BSD1)										
Extractable Fuel Hydrocarbons (C10 - C32)	0.282	0.10	mg/l	0.400		71	70-130	16	20	
Surrogate: o-terphenyl	0.0819		mg/l	0.100		82	70-130			
Matrix Spike Analyzed: 11/10/2011 (11K0355-MS1)										
					Source: PUK0572-01					
Extractable Fuel Hydrocarbons (C10 - C32)	0.310	0.11	mg/l	0.444	ND	70	50-150			
Surrogate: o-terphenyl	0.0900		mg/l	0.111		81	40-145			
Matrix Spike Dup Analyzed: 11/10/2011 (11K0355-MSD1)										
					Source: PUK0572-01					
Extractable Fuel Hydrocarbons (C10 - C32)	0.332	0.11	mg/l	0.444	ND	75	50-150	7	35	
Surrogate: o-terphenyl	0.0891		mg/l	0.111		80	40-145			

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Report Number: PUK0544

Sampled: 11/07/11

Received: 11/08/11

METHOD BLANK/QC DATA

BTEX (EPA 5030B/8021B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11K0599 Extracted: 11/15/11										
Blank Analyzed: 11/15/2011 (11K0599-BLK1)										
Benzene	ND	0.50	ug/l							
Toluene	ND	1.0	ug/l							
Ethylbenzene	ND	1.0	ug/l							
Total Xylenes	ND	1.5	ug/l							
Surrogate: 4-BFB (PID)	89.8		ug/l	80.0		112	70-130			
LCS Analyzed: 11/15/2011 (11K0599-BS1)										
Benzene	20.0	0.50	ug/l	20.0		100	70-130			Q8
Toluene	20.6	1.0	ug/l	20.0		103	70-130			
Ethylbenzene	20.9	1.0	ug/l	20.0		104	70-130			
Total Xylenes	62.5	1.5	ug/l	60.0		104	70-130			
Surrogate: 4-BFB (PID)	91.1		ug/l	80.0		114	70-130			
LCS Dup Analyzed: 11/15/2011 (11K0599-BSD1)										
Benzene	21.7	0.50	ug/l	20.0		108	70-130	8	20	Q8
Toluene	22.4	1.0	ug/l	20.0		112	70-130	8	20	
Ethylbenzene	22.9	1.0	ug/l	20.0		114	70-130	9	20	
Total Xylenes	69.1	1.5	ug/l	60.0		115	70-130	10	20	
Surrogate: 4-BFB (PID)	92.3		ug/l	80.0		115	70-130			

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 Attention: John Burton

Project ID: ADOT S.W.

Report Number: PUK0544

Sampled: 11/07/11

Received: 11/08/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11K0368 Extracted: 11/09/11										
Blank Analyzed: 11/09/2011 (11K0368-BLK1)										
Cyanide, Total	ND	0.0080	mg/l							
LCS Analyzed: 11/09/2011 (11K0368-BS1)										
Cyanide, Total	0.108	0.0080	mg/l	0.100		108	90-110			
LCS Dup Analyzed: 11/09/2011 (11K0368-BSD1)										
Cyanide, Total	0.100	0.0080	mg/l	0.100		100	90-110	7	20	
Matrix Spike Analyzed: 11/09/2011 (11K0368-MS1)										
Cyanide, Total	0.100	0.0080	mg/l	0.100	ND	100	80-120			
Matrix Spike Dup Analyzed: 11/09/2011 (11K0368-MSD1)										
Cyanide, Total	0.112	0.0080	mg/l	0.100	ND	112	80-120	11	20	

TestAmerica Phoenix

Carlene McCutcheon
 Project Manager

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Engineering and Environmental Consultants Phoenix
7878 N. 16th Street, Suite 140
Phoenix, AZ 85020
Attention: John Burton

Project ID: ADOT S.W.

Report Number: PUK0544

Sampled: 11/07/11

Received: 11/08/11

METHOD BLANK/QC DATA

MICROBIOLOGICALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11K0585 Extracted: 11/08/11										
Duplicate Analyzed: 11/11/2011 (11K0585-DUP1)										
E. Coli - MPN	23	2	MPN/100 ml		50			74	200	

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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PUK0544 <Page 12 of 14>

Engineering and Environmental Consultants Phoenix
7878 N. 16th Street, Suite 140
Phoenix, AZ 85020
Attention: John Burton

Project ID: ADOT S.W.

Report Number: PUK0544

Sampled: 11/07/11

Received: 11/08/11

DATA QUALIFIERS AND DEFINITIONS

- H3** Sample was received and analyzed past holding time.
- M2** Matrix spike recovery was low; the associated blank spike recovery was acceptable.
- N1** See case narrative.
- Q8** Insufficient sample received to meet method QC requirements. Batch QC requirements satisfy ADEQ policies 0154.000 and 0155.000.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

ADDITIONAL COMMENTS

For Extractable Fuel Hydrocarbons (EFH, DRO, ORO) :

Unless otherwise noted, Extractable Fuel Hydrocarbons (EFH, DRO, ORO) are quantitated against a Diesel Fuel Standard.

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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PUK0544 <Page 13 of 14>

Engineering and Environmental Consultants Phoenix
7878 N. 16th Street, Suite 140
Phoenix, AZ 85020
Attention: John Burton

Project ID: ADOT S.W.

Report Number: PUK0544

Sampled: 11/07/11

Received: 11/08/11

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 1664A	Water		X
EPA 8015D	Water		X
EPA 8021B	Water	X	X
SM 4500CN-E	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 Phoenix

Carlene McCutcheon
Project Manager

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PUK0544 <Page 14 of 14>

PUK0544- Revised

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-0013-550 (10/10)

Client Name / Address: **EEC**

7878 N. 16th ST. Suite 140
 Phoenix, AZ 85020

Project Manager: **JOHN BURTON**

Sampler: **JOHN BURTON**

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

Page 1 of 1

Analysis Required

Project / PO Number:

A007 S.W.

Phone Number: **602-248-7702**

Fax Number: **602-248-7815**

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	TPH, Cu D & G VOCs - BTEX ok GLP by Boarig Coliform by MPL (E.coli)	Special Instructions	Turnaround Time: (Check)	Sample Integrity: (Check)
ASPH TUC110711	SO			11/7/11	1115		✓	→ Milk - Remove coloring and analyze BTEX only by Boarig 7/3	72 hours	intact
							✓	→ Note updated sample ID as TUC110711 7/4	5 days	on ice
							✓		normal	

Relinquished By: [Signature] Date/Time: 11/7/11 14:20
 Relinquished By: [Signature] Date/Time: 11/7/11 15:10
 Relinquished By: [Signature] Date/Time: 11/8/11 09:45

Received By: [Signature] Date/Time: 11/7/11 14:20
 Received By: [Signature] Date/Time: 11/7/11 15:10
 Received in Lab By: [Signature] Date/Time: 11/8/11 09:45

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.

5-9-11

TestAmerica

CHAIN OF CUSTODY FORM

PURE 0544

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

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- 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

Page 1 of 1

Client Name/Address: ECC 2878 N. 16th St. Suite 140 Phoenix, AZ 85020			Project/PO Number: A00T S.L.			Analysis Required					
Project Manager: Jolene Burton			Phone Number: 602.248.7702			Special Instructions					
Sampler: Tom Ross			Fax Number: 602-248-7815			MAY NEED TO BE ONLY AS COLLECTED.					
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	TPH, Cu O & G	CL2	MPN	Turnaround Time: (Check)	Sample Integrity: (Check)
A00T. GRI	SD			11/7/11	1115		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	same day _____	72 hours _____
										24 hours _____	5 days _____
										48 hours _____	normal _____
										Intact _____	on ice _____
Relinquished By: <i>[Signature]</i>			Date/Time: 11/7/11 14:20			Received By: <i>[Signature]</i>			Date/Time: 11/7/11 14:20		
Relinquished By: <i>[Signature]</i>			Date/Time: 11/7/11 15:00			Received in Lab By: <i>[Signature]</i>			Date/Time: 11/8/11 09:05		

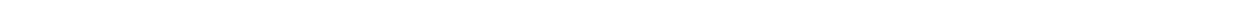
Note: By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

5-901

APPENDIX H
Monitoring Data for Maintenance Yards and Industrial Facilities

Durango Sign Factory
Nogales Maintenance Yard
Superior Maintenance Yard
Superior Fuel Yard

Durango Sign Factory



Quality Control Summary
SDG: L525637

For: Engineering & Env. Consultants, INC. -AZ
Durango Sign Factory

L525637

Lab SampleID.

L525637-01

Client ID

DURANGO

Quality Control Summary

SDG: L525637

For: Engineering & Env. Consultants, INC. -AZ

Project: Durango Sign Factory

July 20, 2011

Sample Receiving and Handling

All sample aliquots were received at the correct temperature, in the proper containers, and with the appropriate preservatives. All method specified holding times were met.

Nitrate-Nitrite by Method 353.2

Laboratory Control Sample

Sample L525637-01 was analyzed in analytical batch WG545584. The laboratory control sample associated with this sample was within the laboratory control limits.

Sample Duplicate Analysis

For analytical batch WG545584 sample duplicate analysis was performed on sample L525689-02. The relative percent differences were within the method limits.

For analytical batch WG545584 sample duplicate analysis was performed on sample L525476-01. The relative percent differences were within the method limits.

Matrix Spike/Matrix Spike Duplicate

For analytical batch WG545584, matrix spike/matrix spike duplicate analysis was performed on sample L525432-03. The spike recoveries and relative percent differences were within laboratory control limits.

Blank Analysis

The method blank, the initial, and all continuing calibration blanks contained no analytes at concentrations above the method reporting limit.

Suspended Solids by Method 2540D

Laboratory Control Sample

Sample L525637-01 was analyzed in analytical batch WG546096. The laboratory control sample associated with this sample was within the laboratory control limits.

Sample Duplicate Analysis

For analytical batch WG546096 sample duplicate analysis was performed on sample L525637-01. The relative percent difference exceeded the method limits for Suspended Solids.

Matrix Spike/Matrix Spike Duplicate

Precision for batch WG546096 was evaluated using the LCS / LCSD. The RPDs were within method limits.

Blank Analysis

The method blank, the initial, and all continuing calibration blanks contained no analytes at concentrations above the method reporting limit.

Hardness, Total (mg/L as CaCO₃) by Method 130.1

Laboratory Control Sample

Sample L525637-01 was analyzed in analytical batch WG546110. The laboratory control sample associated with this sample was within the laboratory control limits.

Quality Control Summary

SDG: L525637

For: Engineering & Env. Consultants, INC. -AZ

Project: Durango Sign Factory

July 20, 2011

Sample Duplicate Analysis

For analytical batch WG546110 sample duplicate analysis was performed on sample L525630-22. The relative percent differences were within the method limits.

For analytical batch WG546110 sample duplicate analysis was performed on sample L525825-05. The relative percent differences were within the method limits.

Matrix Spike/Matrix Spike Duplicate

For analytical batch WG546110, matrix spike/matrix spike duplicate analysis was performed on sample L525476-01. The spike recoveries and relative percent differences were within laboratory control limits.

Blank Analysis

The method blank, the initial, and all continuing calibration blanks contained no analytes at concentrations above the method reporting limit.

Trace Metals by Method 200.7

Laboratory Control Sample

Sample L525637-01 was analyzed in analytical batch WG545428. The laboratory control sample associated with this sample was within the laboratory control limits for all compounds.

Sample Duplicate Analysis

For analytical batch WG545428 sample duplicate analysis was performed on sample L525640-01. The relative percent differences were within the method limits.

Matrix Spike/Matrix Spike Duplicate

For analytical batch WG545428 matrix spike/matrix spike duplicate analysis was performed on sample L525640-01. The high concentration of Aluminum interfered with the ability to make an accurate spike determination for these analytes. The matrix spike recoveries and relative percent differences were within laboratory control limits for all target analytes.

Blank Analysis

The method blank, the initial, and all continuing calibration blanks contained no analytes at concentrations above the method reporting limit.

Nancy F. Winters
ESC Representative
ESC Lab Sciences



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

Report Summary

Tuesday July 19, 2011

Report Number: L525637

Samples Received: 07/13/11

Client Project: 308032.07

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 - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,
TX - T104704245, OK-9915

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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Quality Control Summary
SDG: L525637

For: Engineering & Env. Consultants, INC. -AZ
Durango Sign Factory

L525637

Lab SampleID.

L525637-01

Client ID

DURANGO



L · A · B S · C · I · E · N · C · E · S

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SAMPLE NUMBER
DURANGO

Customer : Engineering & Env. Consultants, INC. - Project : 308032.07
Source : DURANGO Date Sampled : 7/12/2011 10:45 AM
Location : Durango Sign Factory Sampled By : Phill M
Lab Sample ID : L525637-01 Date Received : 7/13/2011

130.1

Analytic Batch: WG546110 Analysis Date: 7/19/2011 Analysis Time: 9:56
Instrument: LACHAT3 Analyst: 479 Preparation Date: 7/18/2011 9:00
Method: 130.1 Dilution: 1

CAS NO	Analyte	RL mg/l	RESULTS mg/l	FLAG
471-34-1	Hardness, Total (mg/L as CaCO3)	30	75	

353.2

Analytic Batch: WG545584 Analysis Date: 7/14/2011 Analysis Time: 2:36 PM
Instrument: LACHAT2 Analyst: 239 Preparation Date: 7/14/2011 12:21
Method: 353.2 Dilution: 1

CAS NO	Analyte	RL mg/l	RESULTS mg/l	FLAG
7727-37-9	Nitrate-Nitrite	0.10	0.29	

2540D

Analytic Batch: WG546096 Analysis Date: 7/18/2011 Analysis Time: 9:06
Instrument: BAL Analyst: 036 Preparation Date: 7/18/2011 9:05
Method: 2540D Dilution: 1

CAS NO	Analyte	RL mg/l	RESULTS mg/l	FLAG
SSOLIDS	Suspended Solids	1.0	42	R8

Comments: 1) Sample results are reported as rounded values.
 2) These results are applicable only to the items tested.



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SAMPLE NUMBER
DURANGO

Customer : Engineering & Env. Consultants, INC. - Project : 308032.07
Source : DURANGO Date Sampled : 7/12/2011 10:45 AM
Location : Durango Sign Factory Sampled By : Phill M
Lab Sample ID : **L525637-01** Date Received : 7/13/2011

200.7

Analytic Batch: WG545428 Analysis Date: 7/14/2011 Analysis Time: 9:50 PM
Instrument: ICP8 Analyst: 429 Preparation Date: 7/13/2011 11:04
Method: 200.7 Dilution: 1

CAS NO	Analyte	RL mg/l	RESULTS mg/l	FLAG
7429-90-5	Aluminum	0.10	0.78	
7439-89-6	Iron	0.10	0.75	
7440-66-6	Zinc	0.030	0.23	

LEGEND

RL - Reporting Limit

QUALIFIERS

R8 - Sample RPD exceeded the method acceptance limit.

Comments: 1) Sample results are reported as rounded values.
2) These results are applicable only to the items tested.

Quality Control Summary

SDG: L525637

Engineering & Env. Consultants, INC. -AZ

Test:	Hardness, Total (mg/L as CaCO ₃) by Method 130.1		
Project No:	308032.07	Matrix:	Water - mg/L
Project:	Durango Sign Factory	EPA ID:	TN00003
Collection Date:	7/12/2011	Analytic Batch:	WG546110
Analysis Date:	7/19/2011 9:56:00 AM	Analyst:	479
Instrument ID:	LACHAT3	Extraction Date:	7/18/2011
Sample Numbers:	L525637-01		

Method Blank

Analyte	CAS	PQL	Qualifiers
Hardness		<30.0	

Laboratory Control Sample (LCS)

Analyte	True Value	Found	Recovery %	Control Limits	Qualifiers
Hardness	200	184	92.0	85 - 115	

Laboratory Control Sample Duplicate (LCSD)

Analyte	True Value	Found	Recovery %	Control Limits	Qualifiers
Hardness	200	186	93.0	85 - 115	



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Quality Control Summary

SDG: L525637

Engineering & Env. Consultants, INC. -AZ

Test:	Hardness, Total (mg/L as CaCO3) by Method 130.1		
Project No:	308032.07	Matrix:	Water - mg/L
Project:	Durango Sign Factory	EPA ID:	TN00003
Collection Date:	7/12/2011	Analytic Batch:	WG546110
Analysis Date:	7/19/2011 9:56:00 AM	Analyst:	479
Instrument ID:	LACHAT3	Extraction Date:	7/18/2011
Sample Numbers:	L525637-01		

Laboratory Control Sample/ Laboratory Control Sample Duplicate

Analyte	Spike	LCS	% Rec		Control Limits	Qualifier	% RPD	% Control Limits	
			Rec	LCSD				Rec	Qualifier
Hardness	200	184	92.0	186	93.0	85-115		1.1	20

Sample Duplicate

L525630-22

Name	Sample Results	Duplic Results	%RPD	Limit	Qualifiers
Hardness	170	178	4.6	20	

Sample Duplicate

L525825-05

Name	Sample Results	Duplic Results	%RPD	Limit	Qualifiers
Hardness	160	160	0.0	20	



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Quality Control Summary

SDG: L525637

Engineering & Env. Consultants, INC. -AZ

Test:	Hardness, Total (mg/L as CaCO3) by Method 130.1		
Project No:	308032.07	Matrix:	Water - mg/L
Project:	Durango Sign Factory	EPA ID:	TN00003
Collection Date:	7/12/2011	Analytic Batch:	WG546110
Analysis Date:	7/19/2011 9:56:00 AM	Analyst:	479
Instrument ID:	LACHAT3	Extraction Date:	7/18/2011
Sample Numbers:	L525637-01		

Matrix Spike/Matrix Spike Duplicate

L525476-01

Analyte	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qualifier	% RPD	Control Limits	RPD Qual
Hardness	150	98.0	226	85.3	227	86.0	80-120		0.4	20	

Quality Control Summary

SDG: L525637

Engineering & Env. Consultants, INC. -AZ

Test:	Nitrate-Nitrite by Method 353.2		
Project No:	308032.07	Matrix:	Water - mg/L
Project:	Durango Sign Factory	EPA ID:	TN00003
Collection Date:	7/12/2011	Analytic Batch:	WG545584
Analysis Date:	7/14/2011 2:36:00 PM	Analyst:	239
Instrument ID:	LACHAT2	Extraction Date:	7/14/2011
Sample Numbers:	L525637-01		

Method Blank

Analyte	CAS	PQL	Qualifiers
Nitrate-Nitrite		<0.100	

Laboratory Control Sample (LCS)

Analyte	True Value	Found	Recovery %	Control Limits	Qualifiers
Nitrate-Nitrite	5.00	4.95	99.0	85 - 115	

Laboratory Control Sample Duplicate (LCSD)

Analyte	True Value	Found	Recovery %	Control Limits	Qualifiers
Nitrate-Nitrite	5.00	5.02	100	85 - 115	

Quality Control Summary

SDG: L525637

Engineering & Env. Consultants, INC. -AZ

Test:	Nitrate-Nitrite by Method 353.2	Matrix:	Water - mg/L
Project No:	308032.07	EPA ID:	TN00003
Project:	Durango Sign Factory	Analytic Batch:	WG545584
Collection Date:	7/12/2011	Analyst:	239
Analysis Date:	7/14/2011 2:36:00 PM	Extraction Date:	7/14/2011
Instrument ID:	LACHAT2		
Sample Numbers:	L525637-01		

Laboratory Control Sample/ Laboratory Control Sample Duplicate

Analyte	Spike	LCS	% Rec		LCS	% Rec	Control Limits	Qualifier	% RPD	% Control	
			Rec	LCS						Limits	Qualifier
Nitrate-Nitrite	5.00	4.95	99.0	5.02	100	85-115		1.4	20		

Sample Duplicate

L525689-02

Name	Sample Results	Duplic Results	%RPD	Limit	Qualifiers
Nitrate-Nitrite	0.0000	0.0000			

Sample Duplicate

L525476-01

Name	Sample Results	Duplic Results	%RPD	Limit	Qualifiers
Nitrate-Nitrite	0.940	0.942	0.2	20	



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Quality Control Summary

SDG: L525637

Engineering & Env. Consultants, INC. -AZ

Test:	Nitrate-Nitrite by Method 353.2		
Project No:	308032.07	Matrix:	Water - mg/L
Project:	Durango Sign Factory	EPA ID:	TN00003
Collection Date:	7/12/2011	Analytic Batch:	WG545584
Analysis Date:	7/14/2011 2:36:00 PM	Analyst:	239
Instrument ID:	LACHAT2	Extraction Date:	7/14/2011
Sample Numbers:	L525637-01		

Matrix Spike/Matrix Spike Duplicate

L525432-03

Analyte	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qualifier	% RPD	Control Limits	RPD Qual
Nitrate-Nitrite	5.00	0.0000	5.03	101	5.01	100	80-120		0.4	20	



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Quality Control Summary

SDG: L525637

Engineering & Env. Consultants, INC. -AZ

Test:	Suspended Solids by Method 2540D	Matrix:	Water - mg/L
Project No:	308032.07	EPA ID:	TN00003
Project:	Durango Sign Factory	Analytic Batch:	WG546096
Collection Date:	7/12/2011	Analyst:	036
Analysis Date:	7/18/2011 9:06:00 AM	Extraction Date:	7/18/2011
Instrument ID:	BAL		
Sample Numbers:	L525637-01		

Method Blank

Analyte	CAS	PQL	Qualifiers
Suspended Solids		<1.00	

Laboratory Control Sample (LCS)

Analyte	True Value	Found	Recovery %	Control Limits	Qualifiers
Suspended Solids	773	784	101	85 - 115	

Laboratory Control Sample Duplicate (LCSD)

Analyte	True Value	Found	Recovery %	Control Limits	Qualifiers
Suspended Solids	773	780	101	85 - 115	



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Quality Control Summary

SDG: L525637

Engineering & Env. Consultants, INC. -AZ

Test:	Suspended Solids by Method 2540D	Matrix:	Water - mg/L
Project No:	308032.07	EPA ID:	TN00003
Project:	Durango Sign Factory	Analytic Batch:	WG546096
Collection Date:	7/12/2011	Analyst:	036
Analysis Date:	7/18/2011 9:06:00 AM	Extraction Date:	7/18/2011
Instrument ID:	BAL		
Sample Numbers:	L525637-01		

Laboratory Control Sample/ Laboratory Control Sample Duplicate

Analyte	Spike	LCS	% Rec		Control Limits	Qualifier	% RPD		Control Limits	Qualifier
			Rec	LCSD			RPD	RPD		
Suspended Solids	773	784	101	780	101	85-115	0.5	20		

Sample Duplicate

L525637-01

Name	Sample Results	Duplic Results	%RPD	Limit	Qualifiers
Suspended Solids	42.0	45.5	8.0	5	R8

Quality Control Summary

SDG: L525637

Engineering & Env. Consultants, INC. -AZ

Test:	Trace Metals by Method 200.7	Matrix:	Water - mg/L
Project No:	308032.07	EPA ID:	TN00003
Project:	Durango Sign Factory	Analytic Batch:	WG545428
Collection Date:	7/12/2011	Analyst:	429
Analysis Date:	7/14/2011	Extraction Date:	7/13/2011
Instrument ID:	ICP8		
Sample Numbers:	L525637-01		

Method Blank

Analyte	CAS	PQL	Qualifiers
Aluminum	7429-90-5	<0.100	
Iron	7439-89-6	<0.100	
Zinc	7440-66-6	<0.0300	

Laboratory Control Sample (LCS)

Analyte	True Value	Found	Recovery %	Control Limits	Qualifiers
Aluminum	1.00	0.904	90.4	85 - 115	
Iron	1.00	1.04	104	85 - 115	
Zinc	1.00	0.930	93.0	85 - 115	

Quality Control Summary

SDG: L525637

Engineering & Env. Consultants, INC. -AZ

Test:	Trace Metals by Method 200.7	Matrix:	Water - mg/L
Project No:	308032.07	EPA ID:	TN00003
Project:	Durango Sign Factory	Analytic Batch:	WG545428
Collection Date:	7/12/2011	Analyst:	429
Analysis Date:	7/14/2011	Extraction Date:	7/13/2011
Instrument ID:	ICP8		
Sample Numbers:	L525637-01		

Sample Duplicate

L525640-01

Name	Sample Results	Duplic Results	%RPD	Limit	Qualifiers
Aluminum	8.26	8.34	1.0	20	
Iron	0.160	0.171	6.6	20	
Zinc	0.194	0.190	2.1	20	

Matrix Spike/Matrix Spike Duplicate

L525640-01

Analyte	Spike		%		MSD	%	Control Limits	% Rec Qualifier	% RPD	Control Limits	RPD Qual
	Value	Sample	MS	Rec							
Aluminum	1.00	8.34	9.97	163	10.0	166	75-125	M3	0.3	20	
Iron	1.00	0.171	1.15	97.9	1.17	99.9	75-125		1.7	20	
Zinc	1.00	0.190	1.11	92.0	1.13	94.0	75-125		1.8	20	

Company Name/Address
EEC
 7878 N. 16th St., Suite 140
 Phoenix, AZ 85020

Alternate Billing
 Report to:
JOHN BURTON
 E-mail to:
J.BURTON@EEC.PHX.COM

Analysis/Container/Preservative

F174

Chain of Custody
 Page 1 of 2

Project Description: **DURANGO SIGN FACTORY**

City/State Collected:
PHOENIX / ARIZONA

PHONE: 602-248-7702
 FAX: 602-248-7851

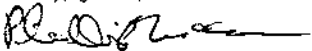
Client Project No.
308032.07

Lab Project #

Collected by:
PHILIPCIAMAZA

Site/Facility ID#
DURANGO


P.O.#

Collected by (signature):

 Packed on Ice N Y

Rush? (Lab MUST be Notified)
 Next Day.....100%
 Two Day.....50%
 Three Day.....25%

Date Results Needed
 No _____ of _____
 Email? No Yes
 FAX? No Yes

NITRATE + NITRITE 250 ml HDPE H 2804
 TSS 1 L HDPE w/ pres
 TOTAL AL, Fe, Zn 500ml HDPE HNO3 L2
 Hardness L2

Prepared by:
 **ENVIRONMENTAL Science corp**
 12065 Lebanon Road
 Mt. Juliet TN 37122
 Phone (615)758-5858
 Phone (800) 767-5859
 FAX (615)758-5859

CoCode (lab use only)

ENGENVPAZ

Template/Prefogin

Shipped Via: Phoenix Service Center

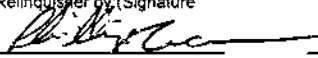
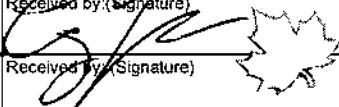
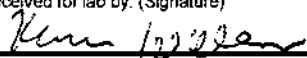
Sample ID	Comp/Grab	Matrix	Depth	Date	Time	Cntrs									
DURANGO	SPAD	SW	Surf.	7-12-11	10:45	4	X	X	X	X					

Remarks/contaminant Sample # (lab only)

LS25637-01

Matrix: SS-Soil/Solid GW-Groundwater WW-Wastewater DW-Drinking Water OT-Other Streamwater pH 7.33 Temp 96.7

Remarks: Flow _____ Other _____

Relinquisher by (Signature) 	Date: 7-12-11	Time: 1140	Received by (Signature) 	Samples returned via FedEx <input checked="" type="checkbox"/> UPS <input type="checkbox"/> Other <input type="checkbox"/>	Condition (lab use only)
Relinquisher by (Signature)	Date:	Time:	Received by (Signature)	Temp: 2.4	Bottles Received: 4
Relinquisher by (Signature)	Date:	Time:	Received for lab by (Signature) 	Date: 7/13/11	Time: 0900
				pH Checked: L2	NCF: 18 of 18

OIC

LABORATORY REPORT

Prepared For: Engineering and Environmental Consultants Phoenix
7878 N. 16th Street, Suite 140
Phoenix, AZ 85020
Attention: John Burton

Project: 308032.07

Sampled: 11/07/11
Received: 11/07/11
Issued: 11/17/11 11:58

NELAP #01109CA 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

PUK0476-01

CLIENT ID

DSF-1/2

MATRIX

Water

SAMPLE RECEIPT: Samples were received intact, at 6°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

Carlene McCutcheon
Project Manager

Engineering and Environmental Consultants Phoenix Project ID: 308032.07
7878 N. 16th Street, Suite 140
Phoenix, AZ 85020 Report Number: PUK0476
Attention: John Burton

Sampled: 11/07/11
Received: 11/07/11

TOTAL METALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUK0476-01 (DSF-1/2 - Water)								
Reporting Units: mg/l								
Aluminum	EPA 6010B	11K0320	0.20	2.3	1	11/8/2011	11/10/2011	
Calcium	EPA 6010B	11K0320	2.0	19	1	11/8/2011	11/10/2011	
Hardness, Total	SM2340B	[CALC]	13	47	1	11/8/2011	11/10/2011	
Iron	EPA 6010B	11K0320	0.050	2.5	1	11/8/2011	11/10/2011	
Magnesium	EPA 6010B	11K0320	2.0	ND	1	11/8/2011	11/10/2011	
Zinc	EPA 6010B	11K0320	0.050	0.40	1	11/8/2011	11/10/2011	

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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PUK0476 <Page 2 of 8>

Engineering and Environmental Consultants Phoenix Project ID: 308032.07
7878 N. 16th Street, Suite 140
Phoenix, AZ 85020 Report Number: PUK0476
Attention: John Burton

Sampled: 11/07/11
Received: 11/07/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUK0476-01 (DSF-1/2 - Water)								
Reporting Units: mg/l								
Nitrate/Nitrite-N	CALC	11K0639	0.40	1.2	1	11/7/2011	11/8/2011	
Nitrate-N	EPA 300.0	11K0296	0.20	1.2	1	11/7/2011	11/8/2011	
Nitrite-N	EPA 300.0	11K0296	0.20	ND	1	11/7/2011	11/8/2011	

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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PUK0476 <Page 3 of 8>

Engineering and Environmental Consultants Phoenix Project ID: 308032.07
7878 N. 16th Street, Suite 140
Phoenix, AZ 85020 Report Number: PUK0476
Attention: John Burton

Sampled: 11/07/11
Received: 11/07/11

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: DSF-1/2 (PUK0476-01) - Water					
CALC	2	11/07/2011 10:25	11/07/2011 11:04	11/07/2011 18:00	11/08/2011 08:42
EPA 300.0	2	11/07/2011 10:25	11/07/2011 11:04	11/07/2011 18:00	11/08/2011 08:42

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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PUK0476 <Page 4 of 8>

Engineering and Environmental Consultants Phoenix Project ID: 308032.07
 7878 N. 16th Street, Suite 140
 Phoenix, AZ 85020 Report Number: PUK0476
 Attention: John Burton

Sampled: 11/07/11
 Received: 11/07/11

METHOD BLANK/QC DATA

TOTAL METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11K0320 Extracted: 11/08/11										
Blank Analyzed: 11/10/2011 (11K0320-BLK1)										
Aluminum	ND	0.20	mg/l							
Calcium	ND	2.0	mg/l							
Iron	ND	0.050	mg/l							
Magnesium	ND	2.0	mg/l							
Zinc	ND	0.050	mg/l							
LCS Analyzed: 11/10/2011 (11K0320-BS1)										
Aluminum	1.89	0.20	mg/l	2.00		94	88-114			
Calcium	20.4	2.0	mg/l	21.0		97	88-109			
Iron	0.906	0.050	mg/l	1.00		91	82-109			
Magnesium	20.1	2.0	mg/l	21.0		96	90-110			
Zinc	1.01	0.050	mg/l	1.00		101	89-116			
LCS Dup Analyzed: 11/10/2011 (11K0320-BSD1)										
Aluminum	1.92	0.20	mg/l	2.00		96	88-114	2	20	
Calcium	20.5	2.0	mg/l	21.0		98	88-109	0.7	20	
Iron	0.927	0.050	mg/l	1.00		93	82-109	2	20	
Magnesium	20.2	2.0	mg/l	21.0		96	90-110	0.3	20	
Zinc	1.03	0.050	mg/l	1.00		103	89-116	2	20	
Matrix Spike Analyzed: 11/10/2011 (11K0320-MS1)										
					Source: PUK0166-01					
Aluminum	2.58	0.20	mg/l	2.00	0.251	116	75-125			
Calcium	150	2.0	mg/l	21.0	130	97	75-125			
Iron	2.03	0.050	mg/l	1.00	1.12	92	75-125			
Magnesium	94.0	2.0	mg/l	21.0	73.6	97	75-125			
Zinc	1.79	0.050	mg/l	1.00	0.849	94	75-125			
Matrix Spike Dup Analyzed: 11/10/2011 (11K0320-MSD1)										
					Source: PUK0166-01					
Aluminum	2.30	0.20	mg/l	2.00	0.251	103	75-125	11	20	
Calcium	144	2.0	mg/l	21.0	130	68	75-125	4	20	M2
Iron	1.98	0.050	mg/l	1.00	1.12	86	75-125	3	20	
Magnesium	90.6	2.0	mg/l	21.0	73.6	81	75-125	4	20	
Zinc	1.77	0.050	mg/l	1.00	0.849	92	75-125	1	20	

TestAmerica Phoenix

Carlene McCutcheon
 Project Manager

Engineering and Environmental Consultants Phoenix Project ID: 308032.07
 7878 N. 16th Street, Suite 140
 Phoenix, AZ 85020 Report Number: PUK0476
 Attention: John Burton

Sampled: 11/07/11
 Received: 11/07/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11K0296 Extracted: 11/07/11										
Blank Analyzed: 11/08/2011 (11K0296-BLK1)										
Nitrate-N	ND	0.20	mg/l							
Nitrite-N	ND	0.20	mg/l							
LCS Analyzed: 11/08/2011 (11K0296-BS1)										
Nitrate-N	4.10	0.20	mg/l	4.00		102	90-110			
Nitrite-N	4.06	0.20	mg/l	4.00		102	90-110			
LCS Dup Analyzed: 11/08/2011 (11K0296-BSD1)										
Nitrate-N	4.10	0.20	mg/l	4.00		102	90-110	0.05	15	
Nitrite-N	3.99	0.20	mg/l	4.00		100	90-110	2	15	
Matrix Spike Analyzed: 11/08/2011 (11K0296-MS1)										
					Source: PUK0485-01					
Nitrate-N	6.48	0.20	mg/l	4.00	2.12	109	80-120			
Nitrite-N	4.17	0.20	mg/l	4.00	ND	104	80-120			
Matrix Spike Dup Analyzed: 11/08/2011 (11K0296-MSD1)										
					Source: PUK0485-01					
Nitrate-N	6.52	0.20	mg/l	4.00	2.12	110	80-120	0.6	15	
Nitrite-N	4.28	0.20	mg/l	4.00	ND	107	80-120	3	15	

TestAmerica Phoenix

Carlene McCutcheon
 Project Manager

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Engineering and Environmental Consultants Phoenix Project ID: 308032.07
7878 N. 16th Street, Suite 140
Phoenix, AZ 85020 Report Number: PUK0476
Attention: John Burton

Sampled: 11/07/11
Received: 11/07/11

DATA QUALIFIERS AND DEFINITIONS

- M2** Matrix spike recovery was low; 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

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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PUK0476 <Page 7 of 8>

Engineering and Environmental Consultants Phoenix Project ID: 308032.07
7878 N. 16th Street, Suite 140
Phoenix, AZ 85020 Report Number: PUK0476
Attention: John Burton

Sampled: 11/07/11
Received: 11/07/11

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
CALC	Water		
EPA 300.0	Water		X
EPA 6010B	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 Phoenix

Carlene McCutcheon
Project Manager

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PUK0476 <Page 8 of 8>

- 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

Client Name / Address:
 7878 N. 16TH ST, Ste 140
 PHOENIX, AZ 85020

Project Manager: John Burton

Sampler: Phillip McNamara

Project/PO Number: 308032.07

Phone Number: (602) 248-7882

Fax Number: (602) 248-7851

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	Total Recoverable Aluminum	Total Recoverable Iron	Total Recoverable Zinc	Nitrate Plus	Nitrate Nitrogen	Hardness	Special Instructions
DSF-1		SOA Plastic	1	11-7-11	10:25	Nitric	X	X	X	X			PUK0476-01
DSF-2		SOA Plastic	1	11-7-11	10:35	None							I

Relinquished By: Phillip J. McNamara 11-7-11 1104

Received By: [Signature] 6/7/11 1104

Relinquished By: [Signature] 6/7/11 1104

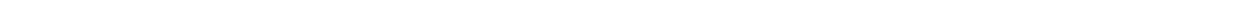
Received In Lab By: [Signature] 6/7/11 1104

Turnaround Time: (Check)
 same day 72 hours
 24 hours 5 days
 48 hours normal

Sample Integrity: (Check)
 intact on ice 5.8

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.

Nogales Maintenance Yard





AZS000018

DISCHARGE MONITORING REPORT (DMR)

(Complete a separate form for each monitoring point)

Facility Name: Nogales Maintenance Yard			Monitoring Point (Outfall): Low point adjacent to facility gate Yard is 108,900 sq ft (2.5 acres)						
Facility Address: 2104 South 22 nd Avenue, Phoenix, Arizona 85009			Year: 2011/2012 Reporting Year – Summer Storm Event						
Monitoring Personnel Name(s): Tom Ross, EEC			Date/Time Collected: July 13, 2011 at 11:45 am Sample collected from installed Nalgene bottle						
Time Rainfall Began: Approximately 7:00am	Duration of Rainfall Event: Approximately 2 hr			Rainfall Amount (inches): 0.13 (0.01 feet)					
Runoff Source: <input checked="" type="checkbox"/> Rainfall <input type="checkbox"/> Snowmelt	Time Elapsed Since Last 0.1 inch Rainfall Event: 18 days			Qualifying Rainfall Event: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO					
Estimated Total Volume of Discharge (Include units; gal, ft³, etc.): 108,900 ft ² X 0.01 ft ² of rain = 1,089 ft ³ X 95% runoff = 1,035 <u>ft³</u> (7.48) = 7,738 <u>gallons</u>			NO DISCHARGE <input type="checkbox"/>						
Parameter	Quantity or Loading			Quality or Concentration			No Ex	Frequency of Analysis	Sample Type
	Average	Maximum	Units	Minimum	Average	Units			
Total Dissolved Solids		19.10	Lbs	260		mg/L		Once each season	Grab
Total Suspended Solids		56.56	Lbs	770		mg/L		Once each season	Grab
Total Petroleum Hydrocarbons		0.02	Lbs	0.23		mg/L		Once each season	Grab
Total Copper		0.01	Lbs	0.10		mg/L		Once each season	Grab
Ammonia		0.04	Lbs	0.50		mg/L		Once each season	Grab
E. Coli*		0	Lbs	0		CFU		Once each season	Grab

*Insufficient sample volume for analyses

LABORATORY REPORT

Prepared For: Engineering and Environmental Consultants Phoenix
7878 N. 16th Street, Suite 140
Phoenix, AZ 85020
Attention: John Burton

Project: [none]

Sampled: 07/13/11
Received: 07/14/11
Issued: 07/25/11 08:36

NELAP #01109CA 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

PUG0892-01
PUG0892-02

CLIENT ID

NOGALES-SW-1
NOGALES-SW-1

MATRIX

Water
Water

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.

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

Carlene McCutcheon
Project Manager

Engineering and Environmental Consultants Phoenix Project ID: [none]
7878 N. 16th Street, Suite 140
Phoenix, AZ 85020 Report Number: PUG0892
Attention: John Burton

Sampled: 07/13/11
Received: 07/14/11

HEXANE EXTRACTABLE MATERIAL BY EPA METHOD 1664A

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUG0892-01 (NOGALES-SW-1 - Water)								
Reporting Units: mg/l								
N-Hexane Extractable Silica Gel Treated (SGT)	EPA 1664A SGT	11G0677	10	ND	1	7/20/2011	7/20/2011	

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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PUG0892 <Page 2 of 12>

Engineering and Environmental Consultants Phoenix Project ID: [none]
7878 N. 16th Street, Suite 140
Phoenix, AZ 85020 Report Number: PUG0892
Attention: John Burton

Sampled: 07/13/11
Received: 07/14/11

TOTAL METALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUG0892-01 (NOGALES-SW-1 - Water)								
Reporting Units: mg/l								
Calcium	EPA 200.7	11G0566	2.0	42	1	7/17/2011	7/18/2011	
Hardness, Total	SM2340B	[CALC]	13	130	1	7/17/2011	7/18/2011	
Magnesium	EPA 200.7	11G0566	2.0	5.0	1	7/17/2011	7/18/2011	

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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PUG0892 <Page 3 of 12>

Engineering and Environmental Consultants Phoenix Project ID: [none]
7878 N. 16th Street, Suite 140
Phoenix, AZ 85020 Report Number: PUG0892
Attention: John Burton

Sampled: 07/13/11
Received: 07/14/11

DISSOLVED METALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUG0892-02 (NOGALES-SW-1 - Water)								
Reporting Units: mg/l								
Copper	EPA 200.7	11G0660	0.010	ND	1	7/19/2011	7/20/2011	

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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PUG0892 <Page 4 of 12>

Engineering and Environmental Consultants Phoenix Project ID: [none]
7878 N. 16th Street, Suite 140
Phoenix, AZ 85020 Report Number: PUG0892
Attention: John Burton

Sampled: 07/13/11
Received: 07/14/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUG0892-01 (NOGALES-SW-1 - Water)								
Reporting Units: mg/l								
Ammonia-N	SM 4500NH3-D	11G0590	0.50	ND	1	7/18/2011	7/18/2011	
Total Dissolved Solids	SM 2540C	11G0627	20	260	1	7/19/2011	7/19/2011	
Total Suspended Solids	SM 2540D	11G0629	20	770	2	7/19/2011	7/19/2011	

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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PUG0892 <Page 5 of 12>

Engineering and Environmental Consultants Phoenix
7878 N. 16th Street, Suite 140
Phoenix, AZ 85020
Attention: John Burton

Project ID: [none]

Report Number: PUG0892

Sampled: 07/13/11

Received: 07/14/11

METHOD BLANK/QC DATA

HEXANE EXTRACTABLE MATERIAL BY EPA METHOD 1664A

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11G0677 Extracted: 07/20/11										
Blank Analyzed: 07/20/2011 (11G0677-BLK1)										
N-Hexane Extractable Silica Gel Treated (SGT)	ND	10	mg/l							
LCS Analyzed: 07/20/2011 (11G0677-BS1)										
N-Hexane Extractable Silica Gel Treated (SGT)	18.4	10	mg/l	20.0		92	64-132			
LCS Dup Analyzed: 07/20/2011 (11G0677-BSD1)										
N-Hexane Extractable Silica Gel Treated (SGT)	17.5	10	mg/l	20.0		87	64-132	5	34	
Matrix Spike Analyzed: 07/20/2011 (11G0677-MS1)										
N-Hexane Extractable Silica Gel Treated (SGT)	16.1	10	mg/l	20.0	ND	81	64-132			
					Source: PUG0872-01					

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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PUG0892 <Page 6 of 12>

Engineering and Environmental Consultants Phoenix
7878 N. 16th Street, Suite 140
Phoenix, AZ 85020
Attention: John Burton

Project ID: [none]

Report Number: PUG0892

Sampled: 07/13/11

Received: 07/14/11

METHOD BLANK/QC DATA

TOTAL METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 11G0566 Extracted: 07/17/11										
Blank Analyzed: 07/18/2011 (11G0566-BLK1)										
Calcium	ND	2.0	mg/l							
Magnesium	ND	2.0	mg/l							
LCS Analyzed: 07/18/2011 (11G0566-BS1)										
Calcium	22.1	2.0	mg/l	21.0		105	85-115			
Magnesium	20.9	2.0	mg/l	21.0		99	85-115			
LCS Dup Analyzed: 07/18/2011 (11G0566-BSD1)										
Calcium	21.8	2.0	mg/l	21.0		104	85-115	1	20	
Magnesium	20.8	2.0	mg/l	21.0		99	85-115	0.4	20	
Matrix Spike Analyzed: 07/18/2011 (11G0566-MS1) Source: PUG0883-01										
Calcium	48.4	2.0	mg/l	21.0	25.1	111	75-125			
Magnesium	23.1	2.0	mg/l	21.0	1.64	102	75-125			
Matrix Spike Analyzed: 07/18/2011 (11G0566-MS2) Source: PUG0884-01										
Calcium	161	2.0	mg/l	21.0	144	82	75-125			
Magnesium	47.7	2.0	mg/l	21.0	27.1	98	75-125			
Matrix Spike Dup Analyzed: 07/18/2011 (11G0566-MSD1) Source: PUG0883-01										
Calcium	47.1	2.0	mg/l	21.0	25.1	105	75-125	3	20	
Magnesium	22.6	2.0	mg/l	21.0	1.64	100	75-125	2	20	
Matrix Spike Dup Analyzed: 07/18/2011 (11G0566-MSD2) Source: PUG0884-01										
Calcium	161	2.0	mg/l	21.0	144	81	75-125	0.04	20	
Magnesium	47.6	2.0	mg/l	21.0	27.1	98	75-125	0.3	20	

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

Engineering and Environmental Consultants Phoenix
 7878 N. 16th Street, Suite 140
 Phoenix, AZ 85020
 Attention: John Burton

Project ID: [none]

Report Number: PUG0892

Sampled: 07/13/11

Received: 07/14/11

METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11G0660 Extracted: 07/19/11										
Blank Analyzed: 07/20/2011 (11G0660-BLK1)										
Copper	ND	0.010	mg/l							
Blank Analyzed: 07/20/2011 (11G0660-BLK2)										
Copper	ND	0.010	mg/l							
LCS Analyzed: 07/20/2011 (11G0660-BS1)										
Copper	1.01	0.010	mg/l	1.00		101	85-115			
LCS Dup Analyzed: 07/20/2011 (11G0660-BSD1)										
Copper	1.02	0.010	mg/l	1.00		102	85-115	0.6	20	
Matrix Spike Analyzed: 07/20/2011 (11G0660-MS1)										
Copper	1.01	0.010	mg/l	1.00	ND	101	75-125			
Matrix Spike Dup Analyzed: 07/20/2011 (11G0660-MSD1)										
Copper	1.02	0.010	mg/l	1.00	ND	102	75-125	2	20	

TestAmerica Phoenix

Carlene McCutcheon
 Project Manager

Engineering and Environmental Consultants Phoenix
7878 N. 16th Street, Suite 140
Phoenix, AZ 85020
Attention: John Burton

Project ID: [none]

Report Number: PUG0892

Sampled: 07/13/11

Received: 07/14/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11G0590 Extracted: 07/18/11										
Blank Analyzed: 07/18/2011 (11G0590-BLK1)										
Ammonia-N	ND	0.50	mg/l							
LCS Analyzed: 07/18/2011 (11G0590-BS1)										
Ammonia-N	20.6	0.50	mg/l	25.0		82	80-120			
LCS Dup Analyzed: 07/18/2011 (11G0590-BSD1)										
Ammonia-N	24.8	0.50	mg/l	25.0		99	80-120	18	20	
Matrix Spike Analyzed: 07/18/2011 (11G0590-MS1)										
Ammonia-N	19.2	0.50	mg/l	25.0	ND	77	80-120			M2
Matrix Spike Dup Analyzed: 07/18/2011 (11G0590-MSD1)										
Ammonia-N	18.4	0.50	mg/l	25.0	ND	74	80-120	4	20	M2
Batch: 11G0627 Extracted: 07/19/11										
Blank Analyzed: 07/19/2011 (11G0627-BLK1)										
Total Dissolved Solids	ND	20	mg/l							
LCS Analyzed: 07/19/2011 (11G0627-BS1)										
Total Dissolved Solids	962	20	mg/l	1000		96	80-115			
LCS Dup Analyzed: 07/19/2011 (11G0627-BSD1)										
Total Dissolved Solids	944	20	mg/l	1000		94	80-115	2	10	
Duplicate Analyzed: 07/19/2011 (11G0627-DUP1)										
Total Dissolved Solids	1080	20	mg/l		1080			0.2	10	

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

Engineering and Environmental Consultants Phoenix
7878 N. 16th Street, Suite 140
Phoenix, AZ 85020
Attention: John Burton

Project ID: [none]

Report Number: PUG0892

Sampled: 07/13/11

Received: 07/14/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11G0627 Extracted: 07/19/11										
Duplicate Analyzed: 07/19/2011 (11G0627-DUP2)										
Total Dissolved Solids	1870	20	mg/l		1880			0.7	10	
Batch: 11G0629 Extracted: 07/19/11										
Blank Analyzed: 07/19/2011 (11G0629-BLK1)										
Total Suspended Solids	ND	10	mg/l							
LCS Analyzed: 07/19/2011 (11G0629-BS1)										
Total Suspended Solids	198	10	mg/l	200		99	90-110			
LCS Dup Analyzed: 07/19/2011 (11G0629-BSD1)										
Total Suspended Solids	195	10	mg/l	200		98	90-110	2	10	
Duplicate Analyzed: 07/19/2011 (11G0629-DUP1)										
Total Suspended Solids	444	40	mg/l		468			5	10	H3
Duplicate Analyzed: 07/19/2011 (11G0629-DUP2)										
Total Suspended Solids	658	29	mg/l		652			0.9	10	

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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PUG0892 <Page 10 of 12>

Engineering and Environmental Consultants Phoenix
7878 N. 16th Street, Suite 140
Phoenix, AZ 85020
Attention: John Burton

Project ID: [none]

Report Number: PUG0892

Sampled: 07/13/11

Received: 07/14/11

DATA QUALIFIERS AND DEFINITIONS

- H3** Sample was received and analyzed past holding time.
- M2** Matrix spike recovery was low; 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

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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PUG0892 <Page 11 of 12>

Engineering and Environmental Consultants Phoenix Project ID: [none]
7878 N. 16th Street, Suite 140
Phoenix, AZ 85020 Report Number: PUG0892
Attention: John Burton

Sampled: 07/13/11
Received: 07/14/11

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 1664A SGT	Water		X
EPA 200.7	Water		X
SM 2540C	Water		X
SM 2540D	Water		X
SM 4500NH3-D	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 Phoenix

Carlene McCutcheon
Project Manager

TestAmerica

CHAIN OF CUSTODY FORM

THE LEADER IN ENVIRONMENTAL TESTING

TAL-0013-550 (10/10)

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- 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

Page 1 of 1

Client Name/Address: 5870 N. 16th Suite 140 Phoenix AZ 85020		Project/PO Number:		Phone Number: 1-602-248-7702		Analysis Required	
Project Manager: John Barrett		Fax Number: 602-248-7757		Sampling Date: 6/13/11		Sampling Time: 13:40	
Sampler: Tom Ross		Sample Description: NOGales - SW-1		Container Type: WT		Preservatives: TPH	
						TSS, TDS	
						CU, & dissolved	
						Ammonia	
						Hardness	
						Special Instructions: PL60892-01, 02	
Relinquished By: <i>[Signature]</i>		Date/Time: 7/13/11 13:40		Received By: <i>[Signature]</i>		Date/Time: 7/13/11 15:40	
Relinquished By: <i>[Signature]</i>		Date/Time: 7/13/11 13:40		Received By: <i>[Signature]</i>		Date/Time: 7/13/11 15:40	
Relinquished By: <i>[Signature]</i>		Date/Time: 7/13/11 13:40		Received in Lab By: <i>[Signature]</i>		Date/Time: 7/14/11 10:30	
Turnaround Time: (Check)		Sample Integrity: (Check)		Turnaround Time: (Check)		Sample Integrity: (Check)	
same day _____		intact <input checked="" type="checkbox"/>		72 hours _____		on ice <input checked="" type="checkbox"/>	
24 hours _____				5 days _____			
48 hours _____				normal _____			

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.



AZS000018

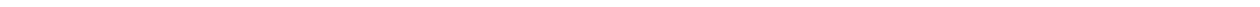
DISCHARGE MONITORING REPORT (DMR)

(Complete a separate form for each monitoring point)

Facility Name: Nogales Maintenance Yard			Monitoring Point (Outfall): Low point adjacent to facility gate Yard is 108,900 sq ft (2.5 acres)						
Facility Address: 2104 South 22 nd Avenue, Phoenix, Arizona 85009			Year: 2011/2012 Reporting Year – Winter Storm Event						
Monitoring Personnel Name(s): Tom Ross, EEC			Date/Time Collected: Dec. 1, 2011 Insufficient sample volume for analyses						
Time Rainfall Began: Unknown	Duration of Rainfall Event: Unknown			Rainfall Amount (inches): 0.1 (0.008 ft)					
Runoff Source: <input checked="" type="checkbox"/> Rainfall <input type="checkbox"/> Snowmelt	Time Elapsed Since Last 0.1 inch Rainfall Event: Unknown			Qualifying Rainfall Event: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO					
Estimated Total Volume of Discharge (Include units; gal, ft³, etc.): 108,900 ft ² X 0.008 ft ² of rain = 871 ft ³ X 95% runoff = 828 ft ³ (7.48) = 6,193 gallons			NO DISCHARGE <input type="checkbox"/>						
Parameter	Quantity or Loading			Quality or Concentration			No Ex	Frequency of Analysis	Sample Type
	Average	Maximum	Units	Minimum	Average	Units			
Total Dissolved Solids*		0	Lbs	0		mg/L		Once each season	Grab
Total Suspended Solids*		0	Lbs	0		mg/L		Once each season	Grab
Total Petroleum Hydrocarbons*		0	Lbs	0		mg/L		Once each season	Grab
Total Copper*		0	Lbs	0		mg/L		Once each season	Grab
Ammonia*		0	Lbs	0		mg/L		Once each season	Grab
E. Coli*		0	Lbs	0		CFU		Once each season	Grab

*Insufficient sample volume for analyses

Superior Maintenance Yard





AZS000018

DISCHARGE MONITORING REPORT (DMR)

(Complete a separate form for each monitoring point)

Facility Name: Superior Maintenance Yard		Monitoring Point (Outfall): Low point at southwest corner of yard Yard is 41,818 sq ft (0.96 acres)	
Facility Address: 951 Main St., Superior, AZ 85273		Year: 2011/2012 Reporting Year – Summer Storm Event	
Monitoring Personnel Name(s): Gary Hoffmann, EEC		Date/Time Collected: July 11, 2011 Insufficient sample volume for analyses	
Time Rainfall Began: Unknown	Duration of Rainfall Event: Unknown	Rainfall Amount (inches): 0.1 Nalgene bottles installed at SW corner of yard	
Runoff Source: <input checked="" type="checkbox"/> Rainfall <input type="checkbox"/> Snowmelt	Time Elapsed Since Last 0.1 inch Rainfall Event: Unknown	Qualifying Rainfall Event: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
Estimated Total Volume of Discharge (Include units; gal, ft³, etc.): 41,818 ft ² X 0.008 ft ² of rain = 335 ft ³ X 95% runoff = 318 ft ³ (7.48) = 2,377 gallons		NO DISCHARGE <input type="checkbox"/>	

Parameter	Quantity or Loading			Quality or Concentration			No Ex	Frequency of Analysis	Sample Type
	Average	Maximum	Units	Minimum	Average	Units			
Total Dissolved Solids*		0	Lbs	0		mg/L		Once each season	Grab
Total Suspended Solids*		0	Lbs	0		mg/L		Once each season	Grab
Total Petroleum Hydrocarbons*		0	Lbs	0		mg/L		Once each season	Grab
Total Copper*		0	Lbs	0		mg/L		Once each season	Grab

*Insufficient sample volume for analyses



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Est. 1970

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

Report Summary

Wednesday December 21, 2011

Report Number: L551531

Samples Received: 12/14/11

Client Project:

Description: Superior Maintenance 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:

Daphne Richards , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,
TX - T104704245, OK-9915, PA - 68-02979

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 21, 2011

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

ESC Sample # : L551531-01

Date Received : December 14, 2011
Description : Superior Maintenance Yard

Site ID :

Sample ID : SUPERIOR FUEL YARD

Project # :

Collected By : Gary Hoffman
Collection Date : 12/13/11 09:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Oil & Grease (Hexane Extr)	BDL	5.6	mg/l	1664A	12/18/11	1
Dissolved Solids	190	10.	mg/l	2540C	12/21/11	1
Suspended Solids	360	1.0	mg/l	2540D	12/19/11	1
Copper	0.50	0.020	mg/l	6010B	12/20/11	1
Copper, Dissolved	0.029	0.020	mg/l	6010B	12/20/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 12/21/11 16:08 Printed: 12/21/11 16:09



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REPORT OF ANALYSIS

December 21, 2011

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

Date Received : December 14, 2011
Description : Superior Maintenance Yard
Sample ID : SUPERIOR MAINTENANCE YARD
Collected By : Gary Hoffman
Collection Date : 12/13/11 10:00

ESC Sample # : L551531-02
Site ID :
Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Oil & Grease (Hexane Extr)	BDL	5.6	mg/l	1664A	12/18/11	1
Dissolved Solids	120	10.	mg/l	2540C	12/21/11	1
Suspended Solids	78.	1.0	mg/l	2540D	12/19/11	1
Copper	0.047	0.020	mg/l	6010B	12/20/11	1
Copper, Dissolved	BDL	0.020	mg/l	6010B	12/20/11	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
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Reported: 12/21/11 16:08 Printed: 12/21/11 16:09

Summary of Remarks For Samples Printed
12/21/11 at 16:09:28

TSR Signing Reports: 288
R5 - Desired TAT

Sample: L551531-01 Account: ENGENVPAZ Received: 12/14/11 09:00 Due Date: 12/21/11 00:00 RPT Date: 12/21/11 16:08

Sample: L551531-02 Account: ENGENVPAZ Received: 12/14/11 09:00 Due Date: 12/21/11 00:00 RPT Date: 12/21/11 16:08



YOUR LAB OF CHOICE

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

Quality Assurance Report
 Level II

L551531

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December 21, 2011

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Oil & Grease (Hexane Extr)	< 5	mg/l			WG570647	12/18/11 23:16
Copper, Dissolved	< .02	mg/l			WG570786	12/20/11 15:25
Copper	< .02	mg/l			WG570727	12/20/11 19:45
Dissolved Solids	< 10	mg/l			WG570457	12/21/11 14:55
Suspended Solids	< 1	mg/l			WG570450	12/19/11 08:03

Analyte	Units	Duplicate		RPD	Limit	Ref Samp	Batch
		Result	Duplicate				
Copper	mg/l	0.510	0.500	2.37	20	L551531-01	WG570727
Dissolved Solids	mg/l	130.	125.	0.797	5	L551531-02	WG570457
Suspended Solids	mg/l	350.	360.	3.97	5	L551531-01	WG570450

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Oil & Grease (Hexane Extr)	mg/l	40	40.8	102.	78-114	WG570647
Copper, Dissolved	mg/l	1.13	1.08	95.6	85-115	WG570786
Copper	mg/l	1.13	1.15	102.	85-115	WG570727
Dissolved Solids	mg/l	8800	8260	93.9	85-115	WG570457
Suspended Solids	mg/l	773	732.	94.7	85-115	WG570450

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Oil & Grease (Hexane Extr)	mg/l	40.1	40.8	100.	78-114	1.73	20	WG570647
Copper, Dissolved	mg/l	1.08	1.08	96.0	85-115	0	20	WG570786
Dissolved Solids	mg/l	8230	8260	94.0	85-115	0.437	20	WG570457

Analyte	Units	Matrix Spike			% Rec	Limit	Ref Samp	Batch
		MS Res	Ref Res	TV				
Copper, Dissolved	mg/l	1.07	0	1.13	94.7	75-125	L551531-02	WG570786

* 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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 John Burton
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December 21, 2011

Analyte	Units	MS Res	Matrix Spike		% Rec	Limit	Ref Samp	Batch
			Ref Res	TV				
Copper	mg/l	1.75	0.500	1.13	111.	75-125	L551531-01	WG570727

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
Copper, Dissolved	mg/l	1.08	1.07	95.6	75-125	0.930	20	L551531-02	WG570786
Copper	mg/l	1.71	1.75	107.	75-125	2.31	20	L551531-01	WG570727

Batch number /Run number / Sample number cross reference

WG570647: R1970612: L551531-01 02
 WG570786: R1973812: L551531-01 02
 WG570727: R1974432: L551531-01 02
 WG570457: R1975194: L551531-01 02
 WG570450: R1975312: L551531-01 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.'



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December 21, 2011

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.

Company Name/Address EEC 7878 N. 16th St., Suite 140 Phoenix, AZ 85020			Alternate Billing Report to: <u>John Burton</u> E-mail to: <u>JBurton@eeccphs.com</u>			Analysis/Container/Preservative					Chain of Custody Page <u>1</u> of <u>1</u>																					
						<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:15%; border: none;">TDS 250ml HDPE No Pres</td> <td style="width:15%; border: none;">TSS 1L HDPE No Pres</td> <td style="width:15%; border: none;">OGHEX 1L Clr HCL</td> <td style="width:15%; border: none;">Cu 500ml HDPE HNO3</td> <td style="width:15%; border: none;">Cu (Dissolved) 500ml HDPE No Pres</td> <td style="width:15%; border: none;"></td> <td style="width:15%; border: none;"></td> <td style="width:15%; border: none;"></td> <td style="width:15%; border: none;"></td> <td style="width:15%; border: none;"></td> </tr> <tr> <td style="text-align: center;">No Pres</td> <td style="text-align: center;">No Pres</td> <td style="text-align: center;">< 9</td> <td style="text-align: center;">< 8</td> <td style="text-align: center;">No Pres</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>					TDS 250ml HDPE No Pres	TSS 1L HDPE No Pres	OGHEX 1L Clr HCL	Cu 500ml HDPE HNO3	Cu (Dissolved) 500ml HDPE No Pres						No Pres	No Pres	< 9	< 8	No Pres						Prepared by: E151 ENVIRONMENTAL Science corp 12065 Lebanon Road Mt. Juliet TN 37122 Phone (615)758-5858 Phone (800) 767-5859 FAX (615)758-5859	
											TDS 250ml HDPE No Pres	TSS 1L HDPE No Pres	OGHEX 1L Clr HCL	Cu 500ml HDPE HNO3	Cu (Dissolved) 500ml HDPE No Pres																	
No Pres	No Pres	< 9	< 8	No Pres																												
Project Description: Superior Maintenance Yard			City/State Collected: <u>Superior, AZ</u>			CoCode _____ (lab use only) ENGENVPAZ Template/Prelogin Shipped Via: _____																										
PHONE 602-248-7702 FAX: 602-248-7851		Client Project No. _____		Lab Project # _____							Rush? (Lab MUST be Notified) <input type="checkbox"/> Next Day.....100% <input type="checkbox"/> Two Day.....50% <input type="checkbox"/> Three Day.....25%																					
Collected by: <u>Gary Hoffmann</u>		Site/Facility ID# _____		P.O.# _____		Date Results Needed _____		No _____ of _____		Email? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes FAX? <input type="checkbox"/> No <input type="checkbox"/> Yes																						
Collected by (signature): 		<input checked="" type="checkbox"/> Packed on Ice N <u>Y</u>		Date Results Needed _____		No _____ of _____		Email? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes FAX? <input type="checkbox"/> No <input type="checkbox"/> Yes		Remarks/contaminant <u>L551531-01</u> <u>202</u>																						
Sample ID	Comp/Grab	Matrix	Depth	Date	Time	Cntrs	TDS 250ml HDPE No Pres	TSS 1L HDPE No Pres	OGHEX 1L Clr HCL	Cu 500ml HDPE HNO3	Cu (Dissolved) 500ml HDPE No Pres	Remarks/contaminant	Sample # (lab only)																			
Superior Fuel Yard	G	soil	0	12/13/11	9:30	5	X	X	X	X	X																					
Superior Maintenance Yard	G	soil	0	12/13/11	10:00	5	X	X	X	X	X																					

Matrix: SS-Soil/Solid GW-Groundwater WW-Wastewater DW-Drinking Water OT-Other Rainwater 5040 0602 1891 pH _____ Temp _____

Remarks: _____ Flow _____ Other _____

Relinquisher by (Signature):		Date: <u>12/13/11</u> Time: <u>11:29</u>		Received by (Signature):		Samples returned via: FedEx <input checked="" type="checkbox"/> UPS <input type="checkbox"/> Other _____		Condition: <u>OK</u> (lab use only)	
Relinquisher by (Signature):		Date: _____ Time: _____		Received by (Signature): _____		Temp: <u>3.1</u>		Bottles Received: <u>10</u>	
Relinquisher by (Signature): _____		Date: _____ Time: _____		Received for lab by: (Signature)		Date: <u>12-14-11</u> Time: <u>0910</u>		pH Checked: <u>< 8</u> NCF: <u>CDL52</u>	

Superior Fuel Yard



AZS000018

DISCHARGE MONITORING REPORT (DMR)

(Complete a separate form for each monitoring point)

Facility Name: Superior Fuel Yard			Monitoring Point (Outfall): South central portion of yard				Yard is 108,900 sq ft (2.5 acres)		
Facility Address: 952/953 Main Street, Superior, AZ			Year: 2011/2012 Reporting Year – Summer Storm Event						
Monitoring Personnel Name(s): Gary Hoffmann, EEC			Date/Time Collected: July 11, 2011			Insufficient sample volume for analyses			
Time Rainfall Began: Unknown		Duration of Rainfall Event: Unknown			Rainfall Amount (inches): 0.1 (0.008 ft) Nalgene bottles at south central portion of yard				
Runoff Source: <input checked="" type="checkbox"/> Rainfall <input type="checkbox"/> Snowmelt		Time Elapsed Since Last 0.1 inch Rainfall Event: Unknown			Qualifying Rainfall Event: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO				
Estimated Total Volume of Discharge (Include units; gal, ft³, etc.): 108,900 ft ² X 0.008 ft ² of rain = 871 ft ³ X 95% runoff = 827 ft ³ (7.48) = 6,186 gallons					NO DISCHARGE <input type="checkbox"/>				
Parameter	Quantity or Loading			Quality or Concentration			No Ex	Frequency of Analysis	Sample Type
	Average	Maximum	Units	Minimum	Average	Units			
Total Dissolved Solids*		0	Lbs	0		mg/L		Once each season	Grab
Total Suspended Solids*		0	Lbs	0		mg/L		Once each season	Grab
Total Petroleum Hydrocarbons*		0	Lbs	0		mg/L		Once each season	Grab
Total Copper*		0	Lbs	0		mg/L		Once each season	Grab

*Insufficient sample volume for analyses



12065 Lebanon Rd.
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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

Wednesday December 21, 2011

Report Number: L551531

Samples Received: 12/14/11

Client Project:

Description: Superior Maintenance 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:

Daphne Richards , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,
TX - T104704245, OK-9915, PA - 68-02979

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.



YOUR LAB OF CHOICE

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REPORT OF ANALYSIS

December 21, 2011

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

Date Received : December 14, 2011
Description : Superior Maintenance Yard
Sample ID : SUPERIOR FUEL YARD
Collected By : Gary Hoffman
Collection Date : 12/13/11 09:30

ESC Sample # : L551531-01
Site ID :
Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Oil & Grease (Hexane Extr)	BDL	5.6	mg/l	1664A	12/18/11	1
Dissolved Solids	190	10.	mg/l	2540C	12/21/11	1
Suspended Solids	360	1.0	mg/l	2540D	12/19/11	1
Copper	0.50	0.020	mg/l	6010B	12/20/11	1
Copper, Dissolved	0.029	0.020	mg/l	6010B	12/20/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 12/21/11 16:08 Printed: 12/21/11 16:09



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REPORT OF ANALYSIS

December 21, 2011

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

Date Received : December 14, 2011
Description : Superior Maintenance Yard
Sample ID : SUPERIOR MAINTENANCE YARD
Collected By : Gary Hoffman
Collection Date : 12/13/11 10:00

ESC Sample # : L551531-02

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Oil & Grease (Hexane Extr)	BDL	5.6	mg/l	1664A	12/18/11	1
Dissolved Solids	120	10.	mg/l	2540C	12/21/11	1
Suspended Solids	78.	1.0	mg/l	2540D	12/19/11	1
Copper	0.047	0.020	mg/l	6010B	12/20/11	1
Copper, Dissolved	BDL	0.020	mg/l	6010B	12/20/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 12/21/11 16:08 Printed: 12/21/11 16:09

Summary of Remarks For Samples Printed
12/21/11 at 16:09:28

TSR Signing Reports: 288
R5 - Desired TAT

Sample: L551531-01 Account: ENGENVPAZ Received: 12/14/11 09:00 Due Date: 12/21/11 00:00 RPT Date: 12/21/11 16:08

Sample: L551531-02 Account: ENGENVPAZ Received: 12/14/11 09:00 Due Date: 12/21/11 00:00 RPT Date: 12/21/11 16:08



YOUR LAB OF CHOICE

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

Quality Assurance Report
 Level II

L551531

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

Tax I.D. 62-0814289

Est. 1970

December 21, 2011

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Oil & Grease (Hexane Extr)	< 5	mg/l			WG570647	12/18/11 23:16
Copper, Dissolved	< .02	mg/l			WG570786	12/20/11 15:25
Copper	< .02	mg/l			WG570727	12/20/11 19:45
Dissolved Solids	< 10	mg/l			WG570457	12/21/11 14:55
Suspended Solids	< 1	mg/l			WG570450	12/19/11 08:03

Analyte	Units	Duplicate		RPD	Limit	Ref Samp	Batch
		Result	Duplicate				
Copper	mg/l	0.510	0.500	2.37	20	L551531-01	WG570727
Dissolved Solids	mg/l	130.	125.	0.797	5	L551531-02	WG570457
Suspended Solids	mg/l	350.	360.	3.97	5	L551531-01	WG570450

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Oil & Grease (Hexane Extr)	mg/l	40	40.8	102.	78-114	WG570647
Copper, Dissolved	mg/l	1.13	1.08	95.6	85-115	WG570786
Copper	mg/l	1.13	1.15	102.	85-115	WG570727
Dissolved Solids	mg/l	8800	8260	93.9	85-115	WG570457
Suspended Solids	mg/l	773	732.	94.7	85-115	WG570450

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Oil & Grease (Hexane Extr)	mg/l	40.1	40.8	100.	78-114	1.73	20	WG570647
Copper, Dissolved	mg/l	1.08	1.08	96.0	85-115	0	20	WG570786
Dissolved Solids	mg/l	8230	8260	94.0	85-115	0.437	20	WG570457

Analyte	Units	Matrix Spike			% Rec	Limit	Ref Samp	Batch
		MS Res	Ref Res	TV				
Copper, Dissolved	mg/l	1.07	0	1.13	94.7	75-125	L551531-02	WG570786

* 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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December 21, 2011

Analyte	Units	MS Res	Matrix Spike		% Rec	Limit	Ref Samp	Batch
			Ref Res	TV				
Copper	mg/l	1.75	0.500	1.13	111.	75-125	L551531-01	WG570727

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
Copper, Dissolved	mg/l	1.08	1.07	95.6	75-125	0.930	20	L551531-02	WG570786
Copper	mg/l	1.71	1.75	107.	75-125	2.31	20	L551531-01	WG570727

Batch number /Run number / Sample number cross reference

WG570647: R1970612: L551531-01 02
 WG570786: R1973812: L551531-01 02
 WG570727: R1974432: L551531-01 02
 WG570457: R1975194: L551531-01 02
 WG570450: R1975312: L551531-01 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.'



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Quality Assurance Report
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Tax I.D. 62-0814289

Est. 1970

December 21, 2011

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.

Company Name/Address EEC 7878 N. 16th St., Suite 140 Phoenix, AZ 85020			Alternate Billing Report to: <u>John Burton</u> E-mail to: <u>JBurton@eeccphs.com</u>			Analysis/Container/Preservative					Chain of Custody Page <u>1</u> of <u>1</u>											
						<table border="1" style="width:100%; height: 100%; text-align: center;"> <tr> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">TDS 250ml HDPE No Pres</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">TSS 1L HDPE No Pres</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">OGHEX 1L Clr HCL</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Cu 500ml HDPE HNO3</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Cu (Dissolved) 500ml HDPE No Pres</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>					TDS 250ml HDPE No Pres	TSS 1L HDPE No Pres	OGHEX 1L Clr HCL	Cu 500ml HDPE HNO3	Cu (Dissolved) 500ml HDPE No Pres						Prepared by: E151	
											TDS 250ml HDPE No Pres	TSS 1L HDPE No Pres	OGHEX 1L Clr HCL	Cu 500ml HDPE HNO3	Cu (Dissolved) 500ml HDPE No Pres							
ENVIRONMENTAL Science corp 12065 Lebanon Road Mt. Juliet TN 37122 Phone (615)758-5858 Phone (800) 767-5859 FAX (615)758-5859																						
Project Description: Superior Maintenance Yard			City/State Collected: <u>Superior, AZ</u>								CoCode (lab use only) ENGENVPAZ Template/Prelogin Shipped Via:											
PHONE 602-248-7702	Client Project No.	Lab Project #	FAX: 602-248-7851																			
Collected by: <u>Gary Hoffmann</u>	Site/Facility ID#	P.O.#	Rush? (Lab MUST be Notified) <input type="checkbox"/> Next Day.....100% <input type="checkbox"/> Two Day.....50% <input type="checkbox"/> Three Day.....25%	Date Results Needed	No						Remarks/contaminant <u>L551531-01</u> <u>202</u>											
Collected by (signature):				Email? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	of																	
Packed on Ice N <u>Y</u> <input checked="" type="checkbox"/>	FAX? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes																					
Sample ID	Comp/Grab	Matrix	Depth	Date	Time	Cntrs	TDS 250ml HDPE No Pres	TSS 1L HDPE No Pres	OGHEX 1L Clr HCL	Cu 500ml HDPE HNO3	Cu (Dissolved) 500ml HDPE No Pres	Remarks/contaminant	Sample # (lab only)									
<u>Superior Fuel Yard</u>	<u>G</u>	<u>soil</u>	<u>0</u>	<u>12/13/11</u>	<u>9:30</u>	<u>5</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>											
<u>Superior Maintenance Yard</u>	<u>G</u>	<u>soil</u>	<u>0</u>	<u>12/13/11</u>	<u>10:00</u>	<u>5</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>											

Matrix: SS-Soil/Solid GW-Groundwater WW-Wastewater DW-Drinking Water OT-Other Rain water 5040 0602 1891 pH _____ Temp _____

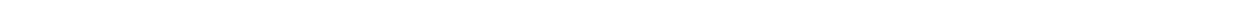
Remarks: _____ Flow _____ Other _____

Relinquisher by (Signature):		Date: <u>12/13/11</u>	Time: <u>11:29</u>	Received by (Signature):		Samples returned via: FedEx <input checked="" type="checkbox"/> UPS <input type="checkbox"/> Other _____		Condition: <u>OK</u> (lab use only)	
Relinquisher by (Signature):		Date:	Time:	Received by (Signature):		Temp: <u>3.1°</u>	Bottles Received: <u>10</u>		
Relinquisher by (Signature):		Date:	Time:	Received for lab by (Signature):		Date: <u>12-14-11</u>	Time: <u>0910</u>	pH Checked: <u>2.8</u>	NCF: <u>CDL52</u>

APPENDIX I
Discharge Monitoring Reports

Marsh Station
Doubtful Canyon

Marsh Station





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
 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

AZS000018-2008
 PERMIT NUMBER

#1
 MONITORING POINT ID

07 2011
 MONTH YEAR

PARAMETERS	TURBIDITY	Streamflow	
		Field	Calc.*
ANALYSIS TYPE: (Field, Lab, Calculation*)	Field		
UNITS	NTUs	ft ³ /sec	kg/day
PERMIT LIMITS	Min.		TMDL Info Only
	Mean		
	Max.		
DAY OF THE MONTH	1		
	2		
	3		
	4		
	5		
	6		
	7		
	8		
	9		
	10		
	11		
	12		
	13		
	14		
	15		
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	19		
	20		
	21		
	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

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.

Tom Billings
 NAME OF PRINCIPAL EXECUTIVE OFFICER
ECC
 TITLE OF PRINCIPAL EXECUTIVE OFFICER
[Signature]
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER

7/22/11
 DATE
602-619-8454
 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
 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

AZS000018-2008
 PERMIT NUMBER

#2
 MONITORING POINT ID

07 2011
 MONTH YEAR

PARAMETERS	TURBIDITY	Streamflow	
		Field	Calc.*
ANALYSIS TYPE: (Field, Lab, Calculation*)	Field		
UNITS	NTUs	ft ³ /sec	kg/day
PERMIT LIMITS	Min.		TMDL Info Only
	Mean		
	Max.		
1			
2			
3			
4			
5			
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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

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.

Tom Billings
 NAME OF PRINCIPAL EXECUTIVE OFFICER
ECC
 TITLE OF PRINCIPAL EXECUTIVE OFFICER

 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER

7/22/11
 DATE
602-619-8451
 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
 ARRA-010-E(2011)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

#3
 MONITORING POINT ID

072011
 MONTH YEAR

PARAMETERS	TURBIDITY	Streamflow	
		Field	Calc.*
ANALYSIS TYPE: (Field, Lab, Calculation*)	Field		
UNITS	NTUs	ft ³ /sec	kg/day
PERMIT LIMITS	Min.		TMDL Info Only
	Mean		
	Max.		
DAY OF THE MONTH	1		
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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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Tom Billings
 NAME OF PRINCIPAL EXECUTIVE OFFICER
 ECC
 TITLE OF PRINCIPAL EXECUTIVE OFFICER
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER

7/22/11
 DATE
 602-619-8454
 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
 Genega Creek
 AREA-010-E(2011)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

#1
 MONITORING POINT ID

08 2011
 MONTH YEAR

PARAMETERS	TURBIDITY	Streamflow	
		Field	Calc.*
ANALYSIS TYPE: (Field, Lab, Calculation*)	Field		
UNITS	NTUs	ft ³ /sec	kg/day
PERMIT LIMITS	Min.		TMDL Info Only
	Mean		
	Max.		
DAY OF THE MONTH	1		
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	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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Tom Billings
 NAME OF PRINCIPAL EXECUTIVE OFFICER
 ECC
 TITLE OF PRINCIPAL EXECUTIVE OFFICER
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER

8/23/11
 DATE
 602-619-8484
 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
 AAAA-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

#2
 MONITORING POINT ID

08 2011
 MONTH YEAR

PARAMETERS ANALYSIS TYPE: (Field, Lab, Calculation*)	TURBIDITY Field	Streamflow			
		Field	Calc.*	Field	Calc.*
UNITS	NTUs	ft ³ /sec	kg/day		
PERMIT LIMITS	Min.			TMDL Info Only	
	Mean				
	Max.				
1					
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Monthly Mean					
Highest Value					
Lowest Value					
Number of Exceedances					

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Tom Billings
 NAME OF PRINCIPAL EXECUTIVE OFFICER
 ECC
 TITLE OF PRINCIPAL EXECUTIVE OFFICER
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER

8/23/11
 DATE
 602-619-8491
 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
 ANPA-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
 PERMIT NUMBER

#3
 MONITORING POINT ID

08 2011
 MONTH YEAR

PARAMETERS	TURBIDITY	Streamflow	
		Field	Calc.*
ANALYSIS TYPE: (Field, Lab, Calculation*)	Field	Field	Calc.*
UNITS	NTUs	ft ³ /sec	kg/day
PERMIT LIMITS	Min.		TMDL
	Mean		Info
	Max.		Only
DAY OF THE MONTH	1		
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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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Tom Billings
 NAME OF PRINCIPAL EXECUTIVE OFFICER
 ECC
 TITLE OF PRINCIPAL EXECUTIVE OFFICER
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER

8/23/11
 DATE
 602-619-8454
 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
 ARAA-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
 PERMIT NUMBER

#1
 MONITORING POINT ID

09 2011
 MONTH YEAR

PARAMETERS	TURBIDITY	Streamflow	
		Field	Calc.*
ANALYSIS TYPE: (Field, Lab, Calculation*)	Field		
UNITS	NTUs	ft ³ /sec	kg/day
PERMIT LIMITS	Min.		TMDL
	Mean		Info
	Max.		Only
DAY OF THE MONTH	1		
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	Monthly Mean		
	Highest Value		
	Lowest Value		
	Number of Exceedances		

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Tom Billings
 NAME OF PRINCIPAL EXECUTIVE OFFICER

9/29/11
 DATE

ECL
 TITLE OF PRINCIPAL EXECUTIVE OFFICER

602-619-8484
 TELEPHONE

[Signature]
 SIGNATURE 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:
 I-10 Marsh Station to
 Cienega Creek
 AAAA-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

#2
 MONITORING POINT ID

09 2011
 MONTH YEAR

PARAMETERS	TURBIDITY	Streamflow	
		Field	Calc.*
ANALYSIS TYPE: (Field, Lab, Calculation*)	Field		
UNITS	NTUs	ft ³ /sec	kg/day
PERMIT LIMITS	Min.		TMDL Info Only
	Mean		
	Max.		
DAY OF THE MONTH	1		
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	Monthly Mean		
	Highest Value		
	Lowest Value		
	Number of Exceedances		

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Tom Billings 9/29/11
 NAME OF PRINCIPAL EXECUTIVE OFFICER DATE
 ECL 602-619-8454
 TITLE OF PRINCIPAL EXECUTIVE OFFICER TELEPHONE
 SIGNATURE 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:
 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

AZS000018-2008
 PERMIT NUMBER

#3
 MONITORING POINT ID

09 2011
 MONTH YEAR

PARAMETERS	TURBIDITY	Streamflow	
		Field	Calc.*
ANALYSIS TYPE: (Field, Lab, Calculation*)	Field		
UNITS	NTUs	ft ³ /sec	kg/day
PERMIT LIMITS	Min.		TMDL Info Only
	Mean		
	Max.		
DAY OF THE MONTH	1		
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Monthly Mean			
Highest Value			
Lowest Value			
Number of Exceedances			

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Tom Billings
 NAME OF PRINCIPAL EXECUTIVE OFFICER

9/29/11
 DATE

ECC
 TITLE OF PRINCIPAL EXECUTIVE OFFICER

602-619-8454
 TELEPHONE

[Signature]
 SIGNATURE 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:
 I-10 Marsh Station to
 Cienega Creek
 ARAA-010-E(2010)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

#1
 MONITORING POINT ID

10 2011
 MONTH YEAR

PARAMETERS	TURBIDITY					Streamflow	
						Field	Calc.*
ANALYSIS TYPE: (Field, Lab, Calculation*)	Field						
UNITS	NTUs				ft ³ /sec	kg/day	
PERMIT LIMITS	Min.						TMDL Info Only
	Mean						
	Max.						
DAY OF THE MONTH	1						
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	Monthly Mean						
	Highest Value						
	Lowest Value						
	Number of Exceedances						

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Tom Billings
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ECC
 TITLE OF PRINCIPAL EXECUTIVE OFFICER

 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER

10/26/11
 DATE
602-619-8484
 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
 Genega 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

AZS000018-2008
 PERMIT NUMBER

#2
 MONITORING POINT ID

10 2011
 MONTH YEAR

PARAMETERS	TURBIDITY	Streamflow	
		Field	Calc.*
ANALYSIS TYPE: (Field, Lab, Calculation*)	Field	Field	Calc.*
UNITS	NTUs	ft ³ /sec	kg/day
PERMIT LIMITS	Min.		TMDL
	Mean		Info
	Max.		Only
DAY OF THE MONTH	1		
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	Monthly Mean		
	Highest Value		
	Lowest Value		
	Number of Exceedances		

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Tom Billings
 NAME OF PRINCIPAL EXECUTIVE OFFICER
 ECC
 TITLE OF PRINCIPAL EXECUTIVE OFFICER
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER

10/26/11
 DATE
 602-619-8451
 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
 Genega 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

AZS000018-2008
 PERMIT NUMBER

#3
 MONITORING POINT ID

10 2011
 MONTH YEAR

PARAMETERS	TURBIDITY	Streamflow	
		Field	Calc.*
ANALYSIS TYPE: (Field, Lab, Calculation*)	Field	Field	Calc.*
UNITS	NTUs	ft ³ /sec	kg/day
PERMIT LIMITS	Min.		TMDL
	Mean		Info
	Max.		Only
DAY OF THE MONTH	1		
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Monthly Mean			
Highest Value			
Lowest Value			
Number of Exceedances			

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Tom Billings
 NAME OF PRINCIPAL EXECUTIVE OFFICER
 ECC
 TITLE OF PRINCIPAL EXECUTIVE OFFICER
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER

10/26/11
 DATE
 602-619-8431
 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
 ARPA-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
 PERMIT NUMBER

#1
 MONITORING POINT ID

11 2011
 MONTH YEAR

PARAMETERS (Field, Lab, Calculation*)	TURBIDITY				Streamflow	
	Field				Field	Calc.*
UNITS	NTUs				ft ³ /sec	kg/day
PERMIT LIMITS	Min.					TMDL
	Mean					Info
	Max.					Only
DAY OF THE MONTH	1					
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	Monthly Mean					
	Highest Value					
	Lowest Value					
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Tom Billings
 NAME OF PRINCIPAL EXECUTIVE OFFICER
 ECC
 TITLE OF PRINCIPAL EXECUTIVE OFFICER
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER

12/2/11
 DATE
 602-619-8454
 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
 AWA-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
 PERMIT NUMBER

#2
 MONITORING POINT ID

11 2011
 MONTH YEAR

PARAMETERS	TURBIDITY	Streamflow	
		Field	Calc.*
ANALYSIS TYPE: (Field, Lab, Calculation*)	Field	Field	Calc.*
UNITS	NTUs	ft ³ /sec	kg/day
PERMIT LIMITS	Min.		TMDL
	Mean		Info
	Max.		Only
DAY OF THE MONTH	1		
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	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

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.

Tom Billings
 NAME OF PRINCIPAL EXECUTIVE OFFICER
 ECC
 TITLE OF PRINCIPAL EXECUTIVE OFFICER
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER

12/2/11
 DATE
 602-619-8454
 TELEPHONE



ARIZONA DEPARTMENT OF TRANSPORTATION
 Monthly Discharge Monitoring Report (DMR) Form
 for the ADOT Statewide Permit #AZS000018-2008

14 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

AZS000018-2008
 PERMIT NUMBER

#3
 MONITORING POINT ID

1	1	2	0	1	1
MONTH			YEAR		

PARAMETERS ANALYSIS TYPE: (Field, Lab, Calculation*)	TURBIDITY Field					Streamflow	
						Field	Calc.*
UNITS	NTUs					ft ³ /sec	kg/day
PERMIT LIMITS	Min.						TMDL
	Mean						Info
	Max.						Only
DAY OF THE MONTH	1						
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Highest Value							
Lowest Value							
Number of Exceedances							

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Tom Billings
 NAME OF PRINCIPAL EXECUTIVE OFFICER
 ECC
 TITLE OF PRINCIPAL EXECUTIVE OFFICER
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER
 12/2/11
 DATE
 602-619-8494
 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
 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

AZS000018-2008
 PERMIT NUMBER

#1
 MONITORING POINT ID

1 2 2 0 1 1
 MONTH YEAR

PARAMETERS	ANALYSIS TYPE: (Field, Lab, Calculation*)	TURBIDITY	Streamflow			
			Field	Calc.*	Field	Calc.*
UNITS		NTUs	ft ³ /sec	kg/day	TMDL Info Only	
PERMIT LIMITS	Min.					
	Mean					
	Max.					
DAY OF THE MONTH	1					
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Monthly Mean						
Highest Value						
Lowest Value						
Number of Exceedances						

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Tom Billings
 NAME OF PRINCIPAL EXECUTIVE OFFICER
 ECC
 TITLE OF PRINCIPAL EXECUTIVE OFFICER
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER

1/3/12
 DATE
 602-619-8484
 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
 AHUA-010-E(2011A) & 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

#2
 MONITORING POINT ID

11 20 11
 MONTH YEAR

PARAMETERS ANALYSIS TYPE: (Field, Lab, Calculation*)	TURBIDITY Field	Streamflow	
		Field	Calc.*
UNITS	NTUs	ft ³ /sec	kg/day
PERMIT LIMITS	Min.		TMDL Info Only
	Mean		
	Max.		
DAY OF THE MONTH	1		
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	Monthly Mean		
	Highest Value		
	Lowest Value		
	Number of Exceedances		

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Tom Billings
 NAME OF PRINCIPAL EXECUTIVE OFFICER
 ECC
 TITLE OF PRINCIPAL EXECUTIVE OFFICER
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER

1/3/12
 DATE
 602-619-8454
 TELEPHONE



ARIZONA DEPARTMENT OF TRANSPORTATION
 Monthly Discharge Monitoring Report (DMR) Form
 for the ADOT Statewide Permit #AZS000018-2008

19/ NO DISCHARGE
 THIS MONTH

PROJECT NAME AND ADDRESS:
 I-10 Marsh Station to
 Cienega Creek
 AQQA-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
 PERMIT NUMBER

#3
 MONITORING POINT ID

12 2011
 MONTH YEAR

PARAMETERS	ANALYSIS TYPE: (Field, Lab, Calculation*)	TURBIDITY	Streamflow	
			Field	Calc.*
UNITS		NTUs	ft ³ /sec	kg/day
PERMIT LIMITS	Min.			
	Mean			TMDL Info Only
	Max.			
DAY OF THE MONTH	1			
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	Monthly Mean			
	Highest Value			
	Lowest Value			
	Number of Exceedances			

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Tom Billings
 NAME OF PRINCIPAL EXECUTIVE OFFICER
 ECC
 TITLE OF PRINCIPAL EXECUTIVE OFFICER
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER

1/3/12
 DATE
 602-619-8454
 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
 ARPA-010-E(2011) & 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

#1
 MONITORING POINT ID

01 2012
 MONTH YEAR

PARAMETERS	ANALYSIS TYPE: (Field, Lab, Calculation*)	UNITS	TURBIDITY				Streamflow	
			Field				Field	Calc.*
PERMIT LIMITS	Min.		NTUs				ft ³ /sec	kg/day
	Mean							TMDL Info Only
	Max.							
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Lowest Value								
Number of Exceedances								

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Tom Billings
 NAME OF PRINCIPAL EXECUTIVE OFFICER
 ECL
 TITLE OF PRINCIPAL EXECUTIVE OFFICER
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER

2/2/12
 DATE
 602-619-8451
 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
 ARAA-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
 PERMIT NUMBER

#2
 MONITORING POINT ID

01 2012
 MONTH YEAR

PARAMETERS	ANALYSIS TYPE: (Field, Lab, Calculation*)	TURBIDITY	Streamflow	
			Field	Calc.*
UNITS		NTUs	ft ³ /sec	kg/day
PERMIT LIMITS	Min.			TMDL Info Only
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	Max.			
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	Highest Value			
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	Number of Exceedances			

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Tom Billings
 NAME OF PRINCIPAL EXECUTIVE OFFICER
 ECL
 TITLE OF PRINCIPAL EXECUTIVE OFFICER
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER

2/2/12
 DATE
 602-619-8494
 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
 AREA-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

#3
 MONITORING POINT ID

01 2012
 MONTH YEAR

PARAMETERS	ANALYSIS TYPE: (Field, Lab, Calculation*)	UNITS	TURBIDITY				Streamflow	
			Field				Field	Calc.*
PERMIT LIMITS	Min.	Mean	NTUs				ft ³ /sec	kg/day
	Max.							TMDL Info Only
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	Monthly Mean							
	Highest Value							
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	Number of Exceedances							

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Tom Billings
 NAME OF PRINCIPAL EXECUTIVE OFFICER
 ECC
 TITLE OF PRINCIPAL EXECUTIVE OFFICER
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER
 2/2/12
 DATE
 602-619-8454
 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
 AAAA-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
 PERMIT NUMBER

#1
 MONITORING POINT ID

02 2012
 MONTH YEAR

PARAMETERS ANALYSIS TYPE: (Field, Lab, Calculation*)	TURBIDITY Field						Streamflow	
							Field	Calc.*
UNITS	NTUs						ft ³ /sec	kg/day
PERMIT LIMITS	Min.							
	Mean							
	Max.						TMDL Info Only	
DAY OF THE MONTH	1							
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Number of Exceedances								

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Tom Billings
 NAME OF PRINCIPAL EXECUTIVE OFFICER
 ECC
 TITLE OF PRINCIPAL EXECUTIVE OFFICER
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER
 3/1/12
 DATE
 602-619-8484
 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
 Cieneega Creek
 A111A-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
 PERMIT NUMBER

#2
 MONITORING POINT ID

02 2012
 MONTH YEAR

PARAMETERS	ANALYSIS TYPE: (Field, Lab, Calculation*)	TURBIDITY	Streamflow	
			Field	Calc.*
UNITS		Field	Calc.*	
PERMIT LIMITS	Min.	NTUs	ft ³ /sec	kg/day
	Mean			TMDL Info Only
	Max.			
DAY OF THE MONTH	1			
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	Highest Value			
	Lowest Value			
	Number of Exceedances			

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Tom Billings
 NAME OF PRINCIPAL EXECUTIVE OFFICER
 ECC
 TITLE OF PRINCIPAL EXECUTIVE OFFICER
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER

3/1/12
 DATE
 602-619-8434
 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
 AQQA-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

#3
 MONITORING POINT ID

02 2012
 MONTH YEAR

PARAMETERS	ANALYSIS TYPE: (Field, Lab, Calculation*)	TURBIDITY	Streamflow	
			Field	Calc.*
UNITS		NTUs	ft ³ /sec	kg/day
PERMIT LIMITS	Min.			TMDL Info Only
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	Max.			
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	Highest Value			
	Lowest Value			
	Number of Exceedances			

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Tom Billings
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 TITLE OF PRINCIPAL EXECUTIVE OFFICER
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER

3/1/12
 DATE
 602-619-8454
 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
 ARRA-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

#1
 MONITORING POINT ID

032012
 MONTH YEAR

PARAMETERS	TURBIDITY	Streamflow	
		Field	Calc.*
ANALYSIS TYPE: (Field, Lab, Calculation*)	Field		
UNITS	NTUs	ft ³ /sec	kg/day
PERMIT LIMITS	Min.		TMDL
	Mean		Info
	Max.		Only
DAY OF THE MONTH	1		
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	Monthly Mean		
	Highest Value		
	Lowest Value		
	Number of Exceedances		

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Tom Billings
 NAME OF PRINCIPAL EXECUTIVE OFFICER
ECC
 TITLE OF PRINCIPAL EXECUTIVE OFFICER
[Signature]
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER

4/2/12
 DATE
602-619-8454
 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
 AYMA-010-E(2012)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

#2
 MONITORING POINT ID

03 2012
 MONTH YEAR

PARAMETERS	ANALYSIS TYPE: (Field, Lab, Calculation*)	TURBIDITY	Streamflow	
			Field	Calc.*
UNITS		NTUs	ft ³ /sec	kg/day
PERMIT LIMITS	Min.			
	Mean			TMDL Info Only
	Max.			
DAY OF THE MONTH	1			
	2			
	3			
	4			
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	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

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.

Tom Billings
 NAME OF PRINCIPAL EXECUTIVE OFFICER
ECC
 TITLE OF PRINCIPAL EXECUTIVE OFFICER

 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER

4/2/12
 DATE
602-619-8484
 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
 AREA-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
 PERMIT NUMBER

#3
 MONITORING POINT ID

03 2012
 MONTH YEAR

PARAMETERS	TURBIDITY	Streamflow	
		Field	Calc.*
ANALYSIS TYPE: (Field, Lab, Calculation*)	Field		
UNITS	NTUs	ft ³ /sec	kg/day
PERMIT LIMITS	Min.		TMDL
	Mean		Info
	Max.		Only
DAY OF THE MONTH	1		
	2		
	3		
	4		
	5		
	6		
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	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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Tom Billings
 NAME OF PRINCIPAL EXECUTIVE OFFICER
 ECC
 TITLE OF PRINCIPAL EXECUTIVE OFFICER
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER

4/2/12
 DATE
 602-619-8454
 TELEPHONE

Doubtful Canyon

Doubtful Canyon



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:
 Ames Construction
 State Highway Payson - Show Low
 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
 PERMIT NUMBER

MONITORING POINT ID

07 2011
 MONTH YEAR

PARAMETERS ANALYSIS IN FIELD (Calculations)	TURBIDITY	Streamflow	
		Field	Calc.*
UNITS	NTUs	ft ³ /sec	kg/day
PERMIT LIMITS	Mean		TMDL Info Only
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
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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 11-1-11
 NAME OF PRINCIPAL EXECUTIVE OFFICER DATE
 Environmental Manager 602 431-2111
 TITLE OF PRINCIPAL EXECUTIVE OFFICER TELEPHONE
 [Signature]
 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

NO DISCHARGE
 THIS MONTH

PROJECT NAME AND ADDRESS:
 Ames Construction
 State Highway Payson - Show Low
 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
 PERMIT NUMBER

2
 MONITORING POINT ID

07 2011
 MONTH YEAR

PARAMETERS (Include Calculations)	TURBIDITY	Streamflow		
		Field	Field	Calc.*
CONDUCTIVITY	NTUs	ft ³ /sec	kg/day	TMDL
PERMIT LIMITS	Mean		Info	Only
1				
2				
3				
4				
5				
6				
7				
8				
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31				
Monthly Mean				
Highest Value				
Lowest Value				
Number of Exceedances				

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John J Baker 11-1-11
 NAME OF PRINCIPAL EXECUTIVE OFFICER DATE
 Environmental Manager 602-431-2111
 TITLE OF PRINCIPAL EXECUTIVE OFFICER TELEPHONE
 [Signature]
 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

NO DISCHARGE
 THIS MONTH

PROJECT NAME AND ADDRESS:
 Ames Construction
 State Highway Payson - Show Low
 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
 PERMIT NUMBER

3
 MONITORING POINT ID

07 2011
 MONTH YEAR

PARAMETERS	TURBIDITY	Streamflow	
		Field	Calc.*
ANALYSIS TYPE (Include calculation)	Field	ft ³ /sec	kg/day
UNITS	NTUs		TMDL Info Only
PERMIT LIMITS	Mean		
	Max		
1			
2			
3			
4			
5			
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31			
Monthly Mean			
Highest Value			
Lowest Value			
Number of Exceedances			

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John J Baker 11-1-11
 NAME OF PRINCIPAL EXECUTIVE OFFICER DATE
 Environmental Manager 602-431-2111
 TITLE OF PRINCIPAL EXECUTIVE OFFICER TELEPHONE
 [Signature]
 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 #AZS00018-2008

NO DISCHARGE
 THIS MONTH

PROJECT NAME AND ADDRESS:
 Ames Construction
 State Highway Payson - Show Low
 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

AZS00018-2008
 PERMIT NUMBER

4
 MONITORING POINT ID

07 2011
 MONTH YEAR

PARAMETERS (ANALYSIS TYPE (field/lab calculations))	TURBIDITY	Streamflow		
		Field	Field	Calc.*
UNITS	NTUs	ft ³ /sec	kg/day	TMDL Info Only
PERMIT LIMITS	Min Mean Max			
1				
2				
3				
4				
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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 11-1-11
 NAME OF PRINCIPAL EXECUTIVE OFFICER DATE
 Regional Environmental Manager 602-431-2111
 TITLE OF PRINCIPAL EXECUTIVE OFFICER TELEPHONE
 [Signature]
 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

NO DISCHARGE
 THIS MONTH

PROJECT NAME AND ADDRESS:
 Ames Construction
 State Highway Payson - Show Low
 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 PERMIT NUMBER	5 MONITORING POINT ID	07 MONTH	2011 YEAR
---------------------------------	--------------------------	-------------	--------------

PARAMETERS ANALYSIS TYPE (Reliability Category)	TURBIDITY Field NTUs	Streamflow	
		Field ft ³ /sec	Calc.* kg/day
PERMIT LIMITS	MIN MAX		TMDL Info Only
1			
2			
3			
4			
5			
6			
7			
8			
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10			
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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 11-1-11
 NAME OF PRINCIPAL EXECUTIVE OFFICER DATE
 Regional Environmental Manager 602-431-2111
 TITLE OF PRINCIPAL EXECUTIVE OFFICER TELEPHONE
 [Signature]
 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 #AZS00018-2008

NO DISCHARGE
 THIS MONTH

PROJECT NAME AND ADDRESS:
 Ames Construction
 State Highway Payson - Show Low
 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

AZS00018-2008
 PERMIT NUMBER

6
 MONITORING POINT ID

07 2011
 MONTH YEAR

PARAMETERS (Analyzed by Gallegos)	TURBIDITY Field	Streamflow			
		Field	Calc.*		
ADDITIONAL PERMIT TIMES	NTUs	ft ³ /sec	kg/day	TMDL Info Only	
1					
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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 11-1-11
 NAME OF PRINCIPAL EXECUTIVE OFFICER DATE
 Res. Environmental Manager 602 431-2111
 TITLE OF PRINCIPAL EXECUTIVE OFFICER TELEPHONE
 [Signature]
 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

NO DISCHARGE
 THIS MONTH

PROJECT NAME AND ADDRESS:
 Ames Construction
 State Highway Payson - Show Low
 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
 PERMIT NUMBER

7
 MONITORING POINT ID

07 2011
 MONTH YEAR

PARAMETERS (ANALYSIS TYPE (in field or calculations))	TURBIDITY	Streamflow	
		Field	Calc.*
MONITORING POINT	Field	ft ³ /sec	kg/day
PERMIT NUMBER	NTUs		TMDL Info Only
MEANS	Mean		
MAX	Max		
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
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27			
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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 11-1-11
 NAME OF PRINCIPAL EXECUTIVE OFFICER DATE
 Environmental Manager 602-431-2111
 TITLE OF PRINCIPAL EXECUTIVE OFFICER TELEPHONE
 [Signature]
 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

NO DISCHARGE
 THIS MONTH

PROJECT NAME AND ADDRESS:
 Ames Construction
 State Highway Payson - Show Low
 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
 PERMIT NUMBER

8
 MONITORING POINT ID

07 2011
 MONTH YEAR

PARAMETERS (ANALYSIS METHOD) (FIELD CALCULATION)	TURBIDITY	Streamflow	
		Field	Calc.*
UNITS	NTUs	ft ³ /sec	kg/day
PERMIT LIMITS	MAX		TMDL Info Only
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
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22			
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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 11-1-11
 NAME OF PRINCIPAL EXECUTIVE OFFICER DATE
 Environmental Manager 602-431-2111
 TITLE OF PRINCIPAL EXECUTIVE OFFICER TELEPHONE
 [Signature]
 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

NO DISCHARGE
 THIS MONTH

PROJECT NAME AND ADDRESS:
 Ames Construction
 State Highway Payson - Show Low
 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
 PERMIT NUMBER

1
 MONITORING POINT ID

08 2011
 MONTH YEAR

PARAMETERS (Field/ Lab/ Calculation)	TURBIDITY	Streamflow		
		Field	Calc.*	
	NTUs	ft ³ /sec	kg/day	TMDL Info Only
1				
2				
3				
4	2.4			
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
Monthly Mean	2.4			
Highest Value	2.4			
Lowest Value	2.4			
Number of Exceedances	0			

* 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 11-1-11
 NAME OF PRINCIPAL EXECUTIVE OFFICER DATE
 Environmental Manager 602 431-2111
 TITLE OF PRINCIPAL EXECUTIVE OFFICER TELEPHONE
 [Signature]
 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

NO DISCHARGE
 THIS MONTH

PROJECT NAME AND ADDRESS:
 Ames Construction
 State Highway Payson - Show Low
 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

AZS000018-2008
 PERMIT NUMBER

2
 MONITORING POINT ID

08 2011
 MONTH YEAR

PARAMETERS (with calculation)	TURBIDITY	Streamflow	
		Field	Calc.*
CONCENTRATION	NTUs	ft ³ /sec	kg/day
PERMIT LIMITS	Mean		TMDL Info Only
	Max		
1			
2			
3			
4	5.2		
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
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18			
19			
20			
21			
22			
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28			
29			
30			
31			
Monthly Mean	5.2		
Highest Value	5.2		
Lowest Value	5.2		
Number of Exceedances	0		

* 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 11-1-11
 NAME OF PRINCIPAL EXECUTIVE OFFICER DATE
 Environmental Manager 602 431-2111
 TITLE OF PRINCIPAL EXECUTIVE OFFICER TELEPHONE
 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

NO DISCHARGE
 THIS MONTH

PROJECT NAME AND ADDRESS:
 Ames Construction
 State Highway Payson - Show Low
 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
 PERMIT NUMBER

3
 MONITORING POINT ID

08 2011
 MONTH YEAR

PARAMETERS (FIELD OR CALCULATION)	TURBIDITY	Streamflow	
		Field	Calc.*
MONITORING POINT	NTUs	ft ³ /sec	kg/day
PERMIT LIMITS	Mean		TMDL Info Only
	Max		
1			
2			
3			
4			
5			
6			
7			
8			
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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

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.

John J Baker 11-1-11
 NAME OF PRINCIPAL EXECUTIVE OFFICER DATE
 Regional Environmental Manager 602-431-2111
 TITLE OF PRINCIPAL EXECUTIVE OFFICER TELEPHONE
 [Signature]
 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 #AZS00018-2008

NO DISCHARGE
 THIS MONTH

PROJECT NAME AND ADDRESS:
 Ames Construction
 State Highway Payson - Show Low
 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

AZS00018-2008
 PERMIT NUMBER

4
 MONITORING POINT ID

08 2011
 MONTH YEAR

PARAMETERS (Field Lab/Calculation)	TURBIDITY Field NTUs	Streamflow	
		Field ft ³ /sec	Calc.* kg/day
PERMIT LIMITS Min Max			TMDL Info Only
1			
2			
3			
4			
5			
6			
7			
8			
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10			
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12			
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28			
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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
 NAME OF PRINCIPAL EXECUTIVE OFFICER
 Environmental Manager
 TITLE OF PRINCIPAL EXECUTIVE OFFICER
 11-1-11
 DATE
 602 431-2111
 TELEPHONE
 [Signature]
 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

NO DISCHARGE
 THIS MONTH

PROJECT NAME AND ADDRESS:
 Ames Construction
 State Highway Payson - Show Low
 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
 PERMIT NUMBER

5
 MONITORING POINT ID

08 2011
 MONTH YEAR

PARAMETERS (Analytical or Calculated)	TURBIDITY	Streamflow	
		Field	Calc.*
CONTINUOUS	NTUs	ft ³ /sec	kg/day
PERMIT LIMITS	Min		TMDL Info Only
	Mean		
	Max		
1			
2			
3			
4			
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8			
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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 11-1-11
 NAME OF PRINCIPAL EXECUTIVE OFFICER DATE
 Regional Environmental Manager 602-431-2111
 TITLE OF PRINCIPAL EXECUTIVE OFFICER TELEPHONE
 [Signature]
 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

NO DISCHARGE
 THIS MONTH

PROJECT NAME AND ADDRESS:
 Ames Construction
 State Highway Payson - Show Low
 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
 PERMIT NUMBER

6
 MONITORING POINT ID

08 2011
 MONTH YEAR

PARAMETERS (ANALYSIS TYPE (include calculation))	TURBIDITY	Streamflow	
		Field	Calc.*
NTUs		ft ³ /sec	kg/day
PERMIT LIMITS			TMDL Info Only
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
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28			
29			
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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 11-1-11
 NAME OF PRINCIPAL EXECUTIVE OFFICER DATE
 Regional Environmental Manager 602-431-2111
 TITLE OF PRINCIPAL EXECUTIVE OFFICER TELEPHONE
 JJB
 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

JJB
 NO DISCHARGE
 THIS MONTH

PROJECT NAME AND ADDRESS:
 Ames Construction
 State Highway Payson - Show Low
 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
 PERMIT NUMBER

7
 MONITORING POINT ID

08 2011
 MONTH YEAR

PARAMETERS	TURBIDITY	Streamflow	
		Field	Calc.*
ANALYSIS TYPE (Reference)	Field	ft ³ /sec	kg/day
CONTINUOUS	NTUs		TMDL Info Only
PERMIT			
MINUS			
1			
2			
3			
4	143		
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
Monthly Means	143		
Highest Value	143		
Lowest Value	143		
Number of Exceedances	0		

* 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 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.

John J Baker 11-1-11
 NAME OF PRINCIPAL EXECUTIVE OFFICER DATE
 Reg. Environmental Manager 602-431-2111
 TITLE OF PRINCIPAL EXECUTIVE OFFICER TELEPHONE
 JJB
 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

11 NO DISCHARGE
 THIS MONTH

PROJECT NAME AND ADDRESS:
 Ames Construction
 State Highway Payson - Show Low
 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
 PERMIT NUMBER

8
 MONITORING POINT ID

08 2011
 MONTH YEAR

PARAMETERS ANALYSIS TYPE (include calculations)	TURBIDITY	Streamflow	
		Field	Calc.*
UNITS	NTUs	ft ³ /sec	kg/day
PERMIT LIMITS	Means		TMDL Info Only
1			
2			
3			
4	302		
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
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17			
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25			
26			
27			
28			
29			
30			
31			
Monthly Mean	302		
Highest Value	302		
Lowest Value	302		
Number of Exceedances	0		

* 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 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.

John J Baker 11-1-11
 NAME OF PRINCIPAL EXECUTIVE OFFICER DATE
 Environmental Manager 602-431-2111
 TITLE OF PRINCIPAL EXECUTIVE OFFICER TELEPHONE
 JJB
 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

NO DISCHARGE
 THIS MONTH

PROJECT NAME AND ADDRESS:
 Ames Construction
 State Highway Payson - Show Low
 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
 PERMIT NUMBER

1
 MONITORING POINT ID

09 2011
 MONTH YEAR

PARAMETERS (ANALYSIS TYPE (FIELD OR LABORATORY))	TURBIDITY	Streamflow	
		Field	Calc.*
NTUs		ft ³ /sec	kg/day
PERMIT NUMBER			TMDL Info Only
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
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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 11-1-11
 NAME OF PRINCIPAL EXECUTIVE OFFICER DATE
 Environmental Manager 602-431-2111
 TITLE OF PRINCIPAL EXECUTIVE OFFICER TELEPHONE
 [Signature]
 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

NO DISCHARGE
 THIS MONTH

PROJECT NAME AND ADDRESS:
 Ames Construction
 State Highway Payson - Show Low
 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
 PERMIT NUMBER

2
 MONITORING POINT ID

09 2011
 MONTH YEAR

PARAMETERS (ANALYSIS METHOD (Chemical Calculations))	TURBIDITY	Streamflow	
		Field	Calc.*
MONITORING POINT	NTUs	ft ³ /sec	kg/day
PERMIT	Mean		TMDL Info Only
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
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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 11-1-11
 NAME OF PRINCIPAL EXECUTIVE OFFICER DATE
 Regional Environmental Manager 602-431-2111
 TITLE OF PRINCIPAL EXECUTIVE OFFICER TELEPHONE
 [Signature]
 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

NO DISCHARGE
 THIS MONTH

PROJECT NAME AND ADDRESS:
 Ames Construction
 State Highway Payson - Show Low
 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 6M02
 Phoenix, AZ 85007

AZS000018-2008
 PERMIT NUMBER

3
 MONITORING POINT ID

09 2011
 MONTH YEAR

PARAMETERS	TURBIDITY	Streamflow	
		Field	Calc.*
	Field	ft ³ /sec	kg/day
	NTUs		TMDL Info Only
1			
2			
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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 11-1-11
 NAME OF PRINCIPAL EXECUTIVE OFFICER DATE
 Regional Environmental Manager 602-431-2111
 TITLE OF PRINCIPAL EXECUTIVE OFFICER TELEPHONE
 [Signature]
 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

NO DISCHARGE
 THIS MONTH

PROJECT NAME AND ADDRESS:
 Ames Construction
 State Highway Payson - Show Low
 SR 260
 Doubtful Canyon Section

COMPLETE AND SUBMIT DNE COPY PBR MONITORING POINT

Mail to: ADDT Office of Environmental Services
 Water Quality Group
 1611 W. Jackson Street, MD EM02
 Phoenix, AZ 85007

AZS000018-2008
 PERMIT NUMBER

4
 MONITORING POINT ID

09 2011
 MONTH YEAR

PARAMETERS	TURBIDITY	Streamflow	
		Field	Calc.*
ANALYSIS METHOD	Field	ft ³ /sec	kg/day
CONTINUOUS	NTUs		TMDL Info Only
PERMIT LIMITS			
1			
2			
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4			
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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 11-1-11
 NAME OF PRINCIPAL EXECUTIVE OFFICER DATE
 Regional Environmental Manager (602) 431-2111
 TITLE OF PRINCIPAL EXECUTIVE OFFICER TELEPHONE
 [Signature]
 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

NO DISCHARGE
 THIS MONTH

PROJECT NAME AND ADDRESS:
 Ames Construction
 State Highway Payson - Show Low
 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 6M02
 Phoenix, AZ 85007

AZS000018-2008
 PERMIT NUMBER

5
 MONITORING POINT ID

09 2011
 MONTH YEAR

PARAMETERS (ANALYSIS METHOD (if applicable))	TURBIDITY	Streamflow	
		Field	Calc.*
UNITS	Field	ft ³ /sec	kg/day
	NTUs		TMDL Info Only
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
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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 11-1-11
 NAME OF PRINCIPAL EXECUTIVE OFFICER DATE
 Regional Environmental Manager 602-431-2111
 TITLE OF PRINCIPAL EXECUTIVE OFFICER TELEPHONE
 [Signature]
 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

NO DISCHARGE
 THIS MONTH

PROJECT NAME AND ADDRESS:
 Ames Construction
 State Highway Payson - Show Low
 SR260
 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
 PERMIT NUMBER

6
 MONITORING POINT ID

09 2011
 MONTH YEAR

PARAMETERS	TURBIDITY	Streamflow	
		Field	Calc.*
(Method of Calculation)	NTUs	ft ³ /sec	kg/day
PERMIT LIMITS	Maximum		TMDL Info Only
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
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13			
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31			
Monthly Mean			
Highest Value			
Lowest Value			
Number of Exceedances			

* TMDL Loading Calculations in kg/day: mg/L x Streamflow x 2.4465 ; μL x Streamflow x 0.0024465

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John J Baker 11-1-11
 NAME OF PRINCIPAL EXECUTIVE OFFICER DATE
 Environmental Manager 602 431-2111
 TITLE OF PRINCIPAL EXECUTIVE OFFICER TELEPHONE
 [Signature]
 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

NO DISCHARGE
 THIS MONTH

PROJECT NAME AND ADDRESS:
 Ames Construction
 State Highway Payson - Show Low
 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
 PERMIT NUMBER

7
 MONITORING POINT ID

092011
 MONTH YEAR

PARAMETERS (ANALYSIS TYPE) (DATE CALCULATED)	TURBIDITY	Streamflow	
		Field	Calc.*
NONUS	Field	ft ³ /sec	kg/day
MEAN	NTUs		TMDL
MAX			Info
			Only
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
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24			
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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 11-1-11
 NAME OF PRINCIPAL EXECUTIVE OFFICER DATE
 Regional Environmental Manager 602-431-2111
 TITLE OF PRINCIPAL EXECUTIVE OFFICER TELEPHONE
 [Signature]
 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

NO DISCHARGE
 THIS MONTH

PROJECT NAME AND ADDRESS:
 Ames Construction
 State Highway Payson - Show Low
 SR 260
 Doubtful Canyon Section

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to: ADDT Office of Environmental Services
 Water Quality Group
 1611 W. Jackson Street, MD-EM02
 Phoenix, AZ 85007

AZS000018-2008
 PERMIT NUMBER

8
 MONITORING POINT ID

09 2011
 MONTH YEAR

PARAMETERS (ANALYSIS TYPE) (Method/Calculator)	TURBIDITY	Streamflow	
		Field	Calc.*
NTUs	Field	ft ³ /sec	kg/day
			TMDL Info Only
1			
2			
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30			
31			
Monthly Means			
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

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.

John J Baker 11-1-11
 NAME OF PRINCIPAL EXECUTIVE OFFICER DATE
 Environmental Manager 602 431-2111
 TITLE OF PRINCIPAL EXECUTIVE OFFICER TELEPHONE
 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

NO DISCHARGE
 THIS MONTH

PROJECT NAME AND ADDRESS:
 Ames Construction
 State Highway Payson - Show Low
 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 PERMIT NUMBER	1 MONITORING POINT ID	10 MONTH	2011 YEAR
---------------------------------	--------------------------	-------------	--------------

PARAMETERS ANALYZED Method of Calculations	TURBIDITY Field NTUs	Streamflow	
		Field ft ³ /sec	Calc.* kg/day TMDL Info Only
1			
2			
3			
4			
5			
6			
7			
8			
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Monthly Mean			
Highest Value			
Lowest Value			
Number of Exceedances			

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John J Baker
 NAME OF PRINCIPAL EXECUTIVE OFFICER
 Environmental Manager
 TITLE OF PRINCIPAL EXECUTIVE OFFICER
 11-1-11
 DATE
 602-431-2111
 TELEPHONE
 [Signature]
 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

NO DISCHARGE
 THIS MONTH

PROJECT NAME AND ADDRESS:
 Ames Construction
 State Highway Payson - Show Low
 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 6M02
 Phoenix, AZ 85007

AZS000018-2008
 PERMIT NUMBER

2
 MONITORING POINT ID

10 20 11
 MONTH YEAR

PARAMETERS (Criteria Calculations)	TURBIDITY	Streamflow	
		Field	Calc.*
UNITS	Field	ft ³ /sec	kg/day
	NTUs		TMDL Info Only
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
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Monthly Means			
Highest Value			
Lowest Value			
Number of Exceedances			

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John J Baker 11-1-11
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 Environmental Manager 602 431-2111
 TITLE OF PRINCIPAL EXECUTIVE OFFICER TELEPHONE
 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

NO DISCHARGE
 THIS MONTH

PROJECT NAME AND ADDRESS:
 Ames Construction
 State Highway Payson - Show Low
 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 6M02
 Phoenix, AZ 85007

AZS000018-2008
 PERMIT NUMBER

3
 MONITORING POINT ID

10 20 11
 MONTH YEAR

STATION NUMBER	TURBIDITY	Streamflow	
		Field	Calc.*
	Field	ft ³ /sec	kg/day
	NTUs		TMDL Info Only
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
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28			
29			
30			
31			
Monthly Mean			
Highest Value			
Lowest Value			
Number of Exceedances			

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John J Baker 11-1-11
 NAME OF PRINCIPAL EXECUTIVE OFFICER DATE
 Environmental Manager 602-431-2111
 TITLE OF PRINCIPAL EXECUTIVE OFFICER TELEPHONE
 [Signature]
 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

NO DISCHARGE
 THIS MONTH

PROJECT NAME AND ADDRESS:
 Ames Construction
 State Highway Payson - Show Low
 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

AZS000018-2008
 PERMIT NUMBER

4
 MONITORING POINT ID

10 2011
 MONTH YEAR

PARAMETERS ANALYSIS METHOD (USE USEC Calculation)	TURBIDITY	Streamflow		
		Field	Field	Calc.*
UNITS	NTUs	ft ³ /sec	kg/day	TMDL Info Only
PERMIT LIMITS	PERMIT LIMITS			
1				
2				
3				
4				
5				
6				
7				
8				
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29				
30				
31				
Monthly Mean				
Highest Value				
Lowest Value				
Number of Exceedances				

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John J Baker 11-1-11
 NAME OF PRINCIPAL EXECUTIVE OFFICER DATE
 Regional Environmental Manager (602) 431-2111
 TITLE OF PRINCIPAL EXECUTIVE OFFICER TELEPHONE
 [Signature]
 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

NO DISCHARGE
 THIS MONTH

PROJECT NAME AND ADDRESS:
 Ames Construction
 State Highway Payson - Show Low
 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
 PERMIT NUMBER

5
 MONITORING POINT ID

10 2011
 MONTH YEAR

PARAMETERS	TURBIDITY	Streamflow	
		Field	Calc.*
ANALYSIS/TEST/Calculation	Field	ft ³ /sec	kg/day
CONDUIT	NTUs		TMDL
FEDERAL/STATE/LOCAL			Info
ADOT/OTHER			Only
1			
2			
3			
4			
5			
6			
7			
8			
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Monthly Means			
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 11-1-11
 NAME OF PRINCIPAL EXECUTIVE OFFICER DATE
 Environmental Manager 602 431-2111
 TITLE OF PRINCIPAL EXECUTIVE OFFICER TELEPHONE
 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

NO DISCHARGE
 THIS MONTH

PROJECT NAME AND ADDRESS:
 Ames Construction
 State Highway Payson - Show Low
 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
 PERMIT NUMBER

6
 MONITORING POINT ID

10 20 11
 MONTH YEAR

PARAMETERS	TURBIDITY	Streamflow	
		Field	Calc.*
ANALYSIS TYPE	Field	ft ³ /sec	kg/day
UNITS	NTUs		TMDL Info Only
PERMIT	MEAN		
ANALYSIS	MAX		
1			
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3			
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29			
30			
31			
Monthly Mean			
Highest Value			
Lowest Value			
Number of Exceedances			

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John J Baker 11-1-11
 NAME OF PRINCIPAL EXECUTIVE OFFICER DATE
 Regional Environmental Manager 602 431-2111
 TITLE OF PRINCIPAL EXECUTIVE OFFICER TELEPHONE
 [Signature]
 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

NO DISCHARGE
 THIS MONTH

PROJECT NAME AND ADDRESS:
 Ames Construction
 State Highway Payson - Show Low
 SR 260
 Doubtfire 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 6M02
 Phoenix, AZ 85007

AZS000018-2008
 PERMIT NUMBER

7
 MONITORING POINT ID

10 2011
 MONTH YEAR

PARAMETERS	TURBIDITY	Streamflow	
		Field	Calc.*
ANALYSIS BY FIELD	Field	ft ³ /sec	kg/day
CONCENTRATION	NTUs		TMDL Info Only
1			
2			
3			
4	210		
5			
6			
7			
8			
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12			
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28			
29			
30			
31			
Monthly Mean	210		
Highest Value	210		
Lowest Value	210		
Number of Exceedances	0		

* 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 11-1-11
 NAME OF PRINCIPAL EXECUTIVE OFFICER DATE
 Regional Environmental Manager 602 431-2111
 TITLE OF PRINCIPAL EXECUTIVE OFFICER TELEPHONE
 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 #AZS00018-2008

NO DISCHARGE
 THIS MONTH

PROJECT NAME AND ADDRESS:
 Ames Construction
 State Highway Payson - Show Low
 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

AZS00018-2008
 PERMIT NUMBER

8
 MONITORING POINT ID

10 2011
 MONTH YEAR

DATE	TURBIDITY	Streamflow	
		Field	Calc.*
	Field	ft ³ /sec	kg/day
	NTUs		TMDL Info Only
1			
2			
3			
4	100		
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Monthly Mean	100		
Highest Value	100		
Lowest Value	100		
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 11-1-11
 NAME OF PRINCIPAL EXECUTIVE OFFICER DATE
 Environmental Manager 602-431-2111
 TITLE OF PRINCIPAL EXECUTIVE OFFICER TELEPHONE
 [Signature]
 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

NO DISCHARGE
 THIS MONTH

PROJECT NAME AND ADDRESS:
 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

AZS000018-2008
 PERMIT NUMBER

MONITORING POINT ID

1 1 2 0 1 1
 MONTH YEAR

PARAMETERS	TURBIDITY	Streamflow	
		Field	Calc.*
ANALYSIS TYPE (Field, Lab, Calculation)	Field	ft ³ /sec	kg/day
UNITS	NTUs		TMDL Info Only
PERMIT LIMITS	Min.		
	Mean		
	Max.		
DAY OF THE MONTH	1		
	2		
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	30		
	31		
	Monthly Mean		
	Highest Value		
	Lowest Value		
	Number of Exceedances		

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John J Baker, CPESC ECC
 NAME OF PRINCIPAL EXECUTIVE OFFICER
 Regional Environmental Manager
 TITLE OF PRINCIPAL EXECUTIVE OFFICER
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER

11/30/11
 DATE
 (602) 370-6387
 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

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	2	11	2	0	1	1
PERMIT NUMBER	MONITORING POINT ID	MONTH	YEAR			

PARAMETERS	TURBIDITY	Streamflow	
		Field	Calc.*
ANALYSIS TYPE (Field, Lab, Calculation*)	Field	ft ³ /sec	kg/day
UNITS	NTUs		TMDL Info Only
PERMIT LIMITS	Min		
	Mean		
	Max		
DAY OF THE MONTH	1		
	2		
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	31		
	Monthly Mean		
	Highest Value		
	Lowest Value		
	Number of Exceedances		

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John J Baker, CPESC ECC
 NAME OF PRINCIPAL EXECUTIVE OFFICER
 Regional Environmental Manager
 TITLE OF PRINCIPAL EXECUTIVE OFFICER
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER

11/30/11
 DATE
 (602) 370-6387
 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

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
 PERMIT NUMBER

3
 MONITORING POINT ID

1 1 2 0 1 1
 MONTH YEAR

PARAMETERS	TURBIDITY	Streamflow	
		Field	Calc. *
ANALYSIS TYPE: (Field, Lab, Calculation*)	Field	ft ³ /sec	kg/day
UNITS	NTUs		TMDL Info Only
PERMIT LIMITS	Min.		
	Mean		
	Max.		
DAY OF THE MONTH	1		
	2		
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	30		
	31		
	Monthly Mean		
	Highest Value		
	Lowest Value		
	Number of Exceedances		

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John J Baker, CPESC ECC
 NAME OF PRINCIPAL EXECUTIVE OFFICER
 Regional Environmental Manager
 TITLE OF PRINCIPAL EXECUTIVE OFFICER
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER

11/30/11
 DATE
 (602) 370-6387
 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

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 PERMIT NUMBER	4 MONITORING POINT ID	1 1 2 0 1 1 MONTH YEAR
---------------------------------	--------------------------	-------------------------------------

PARAMETERS:	TURBIDITY	Streamflow	
		Field	Calc.*
ANALYSIS TYPE: (Field, Lab, Calculation*)	Field	ft ³ /sec	kg/day
UNITS:	NTUs		TMDL Info Only
PERMIT LIMITS	Min:		
	Mean:		
	Max:		
DAY OF THE MONTH	1		
	2		
	3		
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	30		
	31		
	Monthly Mean		
	Highest Value		
	Lowest Value		
	Number of Exceedances		

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John J Baker, CPESC ECC
 NAME OF PRINCIPAL EXECUTIVE OFFICER
 Regional Environmental Manager
 TITLE OF PRINCIPAL EXECUTIVE OFFICER
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER

11/30/11
 DATE
 (602) 370-6387
 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

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
 PERMIT NUMBER

5
 MONITORING POINT ID

1 1 2 0 1 1
 MONTH YEAR

PARAMETERS	TURBIDITY	Streamflow	
		Field	Calc.*
ANALYSIS TYPE (Field, Lab, Calculation*)	Field	ft ³ /sec	kg/day
UNITS	NTUs		TMDL Info Only
PERMIT LIMITS	Min.		
	Mean		
	Max.		
1			
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28			
29			
30			
31			
Monthly Mean			
Highest Value			
Lowest Value			
Number 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 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.

John J Baker, CPESC ECC
 NAME OF PRINCIPAL EXECUTIVE OFFICER
 Regional Environmental Manager
 TITLE OF PRINCIPAL EXECUTIVE OFFICER
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER

11/30/11
 DATE
 (602) 370-6387
 TELEPHONE

Attachment E
 ADOT Discharge Monitoring Report for Analytical Monitoring



ARIZONA DEPARTMENT OF TRANSPORTATION
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 for the ADOT Statewide Permit #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

AZS000018-2008	6	11	2	0	1	1
PERMIT NUMBER	MONITORING POINT ID	MONTH	YEAR			

PARAMETERS	TURBIDITY	Streamflow	
		Field	Calc.*
ANALYSIS TYPE (Field, Lab, Calculation*)	Field	ft ³ /sec	kg/day
UNITS	NTUs		TMDL Info Only
PERMIT LIMITS	Min.		
	Mean		
	Max.		
DAY OF THE MONTH	1		
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	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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 Water Quality Group
 1611 W. Jackson Street, MD EM02
 Phoenix, AZ 85007

AZS000018-2008
 PERMIT NUMBER

7
 MONITORING POINT ID

1 1 2 0 1 1
 MONTH YEAR

PARAMETERS	TURBIDITY	Streamflow				
		Field	Calc. *			
ANALYSIS TYPE (Field, Lab, Calculation*)	Field					
UNITS	NTUs					
PERMIT LIMITS	Min.					TMDL Info Only
	Mean					
	Max.					
DAY OF THE MONTH	1					
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	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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Mail to: ADOT Office of Environmental Services
 Water Quality Group
 1611 W. Jackson Street, MD EM02
 Phoenix, AZ 85007

AZS000018-2008 PERMIT NUMBER	8 MONITORING POINT ID	1 1 2 0 1 1 MONTH YEAR
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PARAMETERS	TURBIDITY	Streamflow	
		Field	Calc.*
ANALYSIS TYPE: (Field, Lab, Calculation*)	Field	ft ³ /sec	kg/day
UNITS	NTUs		TMDL Info Only
PERMIT LIMITS	Min.		
	Mean		
	Max.		
DAY OF THE MONTH	1		
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	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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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

11 NO DISCHARGE
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PROJECT NAME AND ADDRESS:
 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

AZS000018-2008
 PERMIT NUMBER

1
 MONITORING POINT ID

1 2 2 0 1 1
 MONTH YEAR

PARAMETERS	TURBIDITY	Streamflow	
		Field	Calc. *
ANALYSIS TYPE (Field, Lab, Calculation*)	Field	ft ³ /sec	kg/day
UNITS	NTUs		TMDL Info Only
PERMIT LIMITS	Min.		
	Mean		
	Max.		
DAY OF THE MONTH	1		
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	30		
	31		
	Monthly Mean	2.0	
	Highest Value	2.0	
	Lowest Value	2.0	
	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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 TITLE OF PRINCIPAL EXECUTIVE OFFICER
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER

12/30/11
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Attachment E
 ADOT Discharge Monitoring Report for Analytical Monitoring



ARIZONA DEPARTMENT OF TRANSPORTATION
 Monthly Discharge Monitoring Report (DMR) Form
 for the ADOT Statewide Permit #AZS00018-2008

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

AZS00018-2008
PERMIT NUMBER

2
MONITORING POINT ID

1	2	2	0	1	1
MONTH			YEAR		

PARAMETERS	TURBIDITY	Streamflow	
		Field	Calc.*
ANALYSIS TYPE (Field, Lab, Calculation*)	Field		
UNITS	NTUs	ft ³ /sec	kg/day
PERMIT LIMITS	Min.		TMDL Info Only
	Mean		
	Max.		
DAY OF THE MONTH	1		
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	31		
Monthly Mean	2.5		
Highest Value	2.5		
Lowest Value	2.5		
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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12/30/11
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Attachment E
 ADOT Discharge Monitoring Report for Analytical Monitoring



ARIZONA DEPARTMENT OF TRANSPORTATION
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 for the ADOT Statewide Permit #AZS000018-2008

**NO DISCHARGE
THIS MONTH**

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Mail to: ADOT Office of Environmental Services
 Water Quality Group
 1611 W. Jackson Street, MD EM02
 Phoenix, AZ 85007

AZS000018-2008
PERMIT NUMBER

3
MONITORING POINT ID

1	2	2	0	1	1
MONTH			YEAR		

PARAMETERS	TURBIDITY		Streamflow	
	Field		Field	Calc.*
ANALYSIS TYPE: (Field, Lab, Calculation*)	NTUs		ft ³ /sec	kg/day
UNITS				TMDL Info Only
PERMIT LIMITS	Min.			
	Mean			
	Max.			
DAY OF THE MONTH	1			
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	31			
Monthly Mean				
Highest Value				
Lowest Value				
Number of Exceedances				

* TMDL Loading Calculations in kg/day: mg/L x Streamflow x 2.4465 ug/L x Streamflow x 0.0024465

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12/30/11
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 ADOT Discharge Monitoring Report for Analytical Monitoring



ARIZONA DEPARTMENT OF TRANSPORTATION
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 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

AZS000018-2008	4	1	2	2	0	1	1
PERMIT NUMBER	MONITORING POINT ID	MONTH		YEAR			

PARAMETERS	TURBIDITY	Streamflow	
		Field	Calc.*
ANALYSIS TYPE: (Field, Lab, Calculation*)	Field		
UNITS	NTUs	ft ³ /sec	kg/day
PERMIT LIMITS	Min.		TMDL Info Only
	Mean		
	Max.		
DAY OF THE MONTH	1		
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	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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12/30/11
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Mail to: ADOT Office of Environmental Services
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 1611 W. Jackson Street, MD EM02
 Phoenix, AZ 85007

AZS000018-2008
 PERMIT NUMBER

5
 MONITORING POINT ID

1 2 2 0 1 1
 MONTH YEAR

PARAMETERS	TURBIDITY				Streamflow	
	ANALYSIS TYPE (Field, Lab, Calculation*)	Field			Field	Calc.*
UNITS		NTUs			ft ³ /sec	kg/day
PERMIT LIMITS	Min.					TMDL
	Mean					Info
	Max.					Only
DAY OF THE MONTH	1					
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	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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 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

AZS000018-2008	6	1	2	2	0	1	1
PERMIT NUMBER	MONITORING POINT ID	MONTH	YEAR				

PARAMETERS	TURBIDITY	Streamflow	
		Field	Calc.*
ANALYSIS TYPE (Field, Lab, Calculation*)	Field	ft ³ /sec	kg/day
UNITS	NTUs		TMDL Info Only
PERMIT LIMITS	Min.		
	Mean		
	Max.		
DAY OF THE MONTH	1		
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	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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 Monthly Discharge Monitoring Report (DMR) Form
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 SR 260 Doubtful Canyon Section

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 1611 W. Jackson Street, MD EM02
 Phoenix, AZ 85007

AZS00018-2008
 PERMIT NUMBER

7
 MONITORING POINT ID

1 | 2 | 2 | 0 | 1 | 1
 MONTH YEAR

PARAMETERS	TURBIDITY	Streamflow	
		Field	Calc.*
ANALYSIS TYPE: (Field, Lab, Calculation*)	Field	ft ³ /sec	kg/day
UNITS	NTUs		TMDL Info Only
PERMIT LIMITS	Min.		
	Mean		
	Max.		
DAY OF THE MONTH	1		
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	19	89.2	
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	30		
	31		
	Monthly Mean	89.2	
	Highest Value	89.2	
	Lowest Value	89.2	
	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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 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

AZS000018-2008 PERMIT NUMBER	8 MONITORING POINT ID	1 2 MONTH	2 0 1 1 YEAR
---------------------------------	--------------------------	----------------	-----------------------

PARAMETERS	TURBIDITY	Streamflow		
		Field	Calc.*	
ANALYSIS TYPE (Field, Lab, Calculation*)	Field	ft ³ /sec	kg/day	
UNITS	NTUs		TMDL Info Only	
PERMIT LIMITS	Min.			
	Mean			
	Max.			
DAY OF THE MONTH	1			
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	19	69.4		
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	21			
	22			
	23			
	24			
	25			
	26			
	27			
	28			
	29			
	30			
	31			
Monthly Mean	69.4			
Highest Value	69.4			
Lowest Value	69.4			
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
 TITLE OF PRINCIPAL EXECUTIVE OFFICER
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER

12/30/11
 DATE
 (602) 370-6387
 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 #AZS00018-2008

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

AZS00018-2008
 PERMIT NUMBER

1
 MONITORING POINT ID

0 1 2 | 0 1 2
 MONTH YEAR

PARAMETERS	TURBIDITY	Streamflow				
		Field	Calc.*			
ANALYSIS TYPE (Field, Lab, Calculation*)	Field					
UNITS	NTUs					
PERMIT LIMITS	Min.					
	Mean					
	Max.					
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Monthly Mean						
Highest Value						
Lowest Value						
Number of Exceedances						

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John J Baker, CPESC ECC
 NAME OF PRINCIPAL EXECUTIVE OFFICER
 Regional Environmental Manager
 TITLE OF PRINCIPAL EXECUTIVE OFFICER
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER

1/31/12
 DATE
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Attachment E
 ADOT Discharge Monitoring Report for Analytical Monitoring



ARIZONA DEPARTMENT OF TRANSPORTATION
 Monthly Discharge Monitoring Report (DMR) Form
 for the ADOT Statewide Permit #AZS00018-2008

NO DISCHARGE
 THIS MONTH

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 Water Quality Group
 1611 W. Jackson Street, MD EM02
 Phoenix, AZ 85007

AZS00018-2008
 PERMIT NUMBER

2
 MONITORING POINT ID

0	1	2	0	1	2
MONTH			YEAR		

PARAMETERS	TURBIDITY	Streamflow	
		Field	Calc. *
ANALYSIS TYPE: (Field, Lab, Calculation*)	Field	ft ³ /sec	kg/day
UNITS	NTUs		TMDL Info Only
PERMIT LIMITS	Min		
	Mean		
	Max		
DAY OF THE MONTH	1		
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Monthly Mean			
Highest Value			
Lowest Value			
Number of Exceedances			

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 Regional Environmental Manager
 TITLE OF PRINCIPAL EXECUTIVE OFFICER
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER

1/31/12
 DATE
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Attachment E
 ADOT Discharge Monitoring Report for Analytical Monitoring



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 for the ADOT Statewide Permit #AZS00018-2008

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 Water Quality Group
 1611 W. Jackson Street, MD EM02
 Phoenix, AZ 85007

AZS00018-2008
 PERMIT NUMBER

3
 MONITORING POINT ID

0 1 2 1 0 1 2
 MONTH YEAR

PARAMETERS	TURBIDITY	Streamflow				
		Field	Calc.*			
ANALYSIS TYPE (Field, Lab, Calculation*)	Field					
UNITS	NTUs					
PERMIT LIMITS	Min.					TMDL
	Mean					Info
	Max.					Only
DAY OF THE MONTH	1					
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Monthly Mean						
Highest Value						
Lowest Value						
Number of Exceedances						

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1/31/12
 DATE
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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 260 Doubtful Canyon Section

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 Water Quality Group
 1611 W. Jackson Street, MD EM02
 Phoenix, AZ 85007

AZS000018-2008
 PERMIT NUMBER

4
 MONITORING POINT ID

0 1 2 0 1 2
 MONTH YEAR

PARAMETERS	TURBIDITY	Streamflow				
		Field	Calc. 4			
ANALYSIS TYPE (Field, Lab, Calculation*)	Field					
UNITS	NTUs	ft ³ /sec	kg/day			
PERMIT LIMITS	Min.					TMDL Info Only
	Mean					
	Max.					
DAY OF THE MONTH	1					
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	Monthly Mean					
	Highest Value					
	Lowest Value					
	Number of Exceedances					

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1/31/12
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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 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

AZS000018-2008
 PERMIT NUMBER

5
 MONITORING POINT ID

0 1 2 0 1 2
 MONTH YEAR

PARAMETERS	TURBIDITY	Streamflow	
		Field	Calc.*
ANALYSIS TYPE (Field, Lab, Calculation*)	Field	ft ³ /sec	kg/day
UNITS	NTUs		TMDL Info Only
PERMIT LIMITS	Min:		
	Mean:		
	Max:		
DAY OF THE MONTH	1		
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	Monthly Mean		
	Highest Value		
	Lowest Value		
	Number of Exceedances		

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 TITLE OF PRINCIPAL EXECUTIVE OFFICER
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER

1/31/12
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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 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

AZS000018-2008
 PERMIT NUMBER

6
 MONITORING POINT ID

0 1 2 0 1 2
 MONTH YEAR

PARAMETERS	TURBIDITY	Streamflow				
	Field	Field				
ANALYSIS TYPE (Field, Lab, Calculation*)	Field	Field				
UNITS	NTUs	ft ³ /sec				
PERMIT LIMITS	Min.	TMDL Info Only				
	Mean	TMDL Info Only				
	Max.	TMDL Info Only				
DAY OF THE MONTH	1					
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Monthly Mean						
Highest Value						
Lowest Value						
Number of Exceedances						

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 Regional Environmental Manager
 TITLE OF PRINCIPAL EXECUTIVE OFFICER
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER

1/31/12
 DATE
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Attachment E
 ADOT Discharge Monitoring Report for Analytical Monitoring



ARIZONA DEPARTMENT OF TRANSPORTATION
 Monthly Discharge Monitoring Report (DMR) Form
 for the ADOT Statewide Permit #AZS00018-2008

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

AZS00018-2008
 PERMIT NUMBER

7
 MONITORING POINT ID

0 1 2 0 1 2
 MONTH YEAR

PARAMETERS	TURBIDITY					Streamflow	
	ANALYSIS TYPE (Field, Lab, Calculation*)	Field				Field	Calc. *
UNITS		NTUs				ft ³ /sec	kg/day
PERMIT LIMITS	Min.						TMDL Info Only
	Mean						
	Max.						
DAY OF THE MONTH	1						
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Highest Value							
Lowest Value							
Number of Exceedances							

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 Regional Environmental Manager
 TITLE OF PRINCIPAL EXECUTIVE OFFICER
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER

1/31/12
 DATE
 (602) 370-6387
 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

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
 PERMIT NUMBER

8
 MONITORING POINT ID

0 1 2 0 1 2
 MONTH YEAR

PARAMETERS	TURBIDITY				Streamflow	
	ANALYSIS TYPE (Field, Lab, Calculation*)	Field			Field	Calc.*
UNITS		NTUs			ft ³ /sec	kg/day
PERMIT LIMITS	Min.					TMDL Info Only
	Mean					
	Max.					
DAY OF THE MONTH	1					
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	Monthly Mean					
	Highest Value					
	Lowest Value					
	Number of Exceedances					

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1/31/12
 DATE
 (602) 370-6387
 TELEPHONE

Attachment E
 ADOT Discharge Monitoring Report for Analytical Monitoring



ARIZONA DEPARTMENT OF TRANSPORTATION
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 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

AZS000018-2008
 PERMIT NUMBER

1
 MONITORING POINT ID

0 2 2 0 1 2
 MONTH YEAR

PARAMETERS	TURBIDITY	Streamflow	
		Field	Calc.*
ANALYSIS TYPE (Field, Lab, Calculation*)	Field	ft ³ /sec	kg/day
UNITS	NTUs		TMDL Info Only
PERMIT LIMITS	Min.		
	Mean		
	Max.		
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Monthly Mean			
Highest Value			
Lowest Value			
Number of Exceedances			

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 TITLE OF PRINCIPAL EXECUTIVE OFFICER
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER

2/29/12
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Attachment E
 ADOT Discharge Monitoring Report for Analytical Monitoring



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 Monthly Discharge Monitoring Report (DMR) Form
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 1611 W. Jackson Street, MD EM02
 Phoenix, AZ 85007

AZS000018-2008
 PERMIT NUMBER

2
 MONITORING POINT ID

0 2 2 0 1 2
 MONTH YEAR

PARAMETERS	TURBIDITY				Streamflow	
	ANALYSIS TYPE: (Field, Lab, Calculation*)	Field			Field	Calc.*
UNITS		NTUs			ft ³ /sec	kg/day
PERMIT LIMITS	Min					TMDL Info Only
	Mean					
	Max					
DAY OF THE MONTH	1					
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	Monthly Mean					
	Highest Value					
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 ADOT Discharge Monitoring Report for Analytical Monitoring



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 Monthly Discharge Monitoring Report (DMR) Form
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 SR 260 Doubtful Canyon Section

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 Phoenix, AZ 85007

AZS00018-2008
 PERMIT NUMBER

3
 MONITORING POINT ID

0 2 2 0 1 2
 MONTH YEAR

PARAMETERS	TURBIDITY	Streamflow	
		Field	Calc.*
ANALYSIS TYPE (Field, Lab, Calculation*)	Field	r ³ /sec	kg/day
UNITS	NTUs		TMDL Info Only
PERMIT LIMITS	Min.		
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	Highest Value		
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	Number of Exceedances		

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 ADOT Discharge Monitoring Report for Analytical Monitoring



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 Monthly Discharge Monitoring Report (DMR) Form
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 SR 260 Doubtful Canyon Section

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 Water Quality Group
 1611 W. Jackson Street, MD EM02
 Phoenix, AZ 85007

AZS00018-2008
 PERMIT NUMBER

4
 MONITORING POINT ID

0 2 2 0 1 2
 MONTH YEAR

PARAMETERS	TURBIDITY	Streamflow			
		Field	Calc.*		
ANALYSIS TYPE (Field, Lab, Calculation*)	Field	ft ³ /sec	kg/day		
UNITS	NTUs		TMDL		
PERMIT LIMITS	Min.		Info		
	Mean		Only		
	Max.				
DAY OF THE MONTH	1				
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	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
 TITLE OF PRINCIPAL EXECUTIVE OFFICER
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER

2/29/12
 DATE
 (602) 370-6387
 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

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
 PERMIT NUMBER

5
 MONITORING POINT ID

0 2 2 0 1 2
 MONTH YEAR

PARAMETERS	TURBIDITY	Streamflow	
		Field	Calc.*
ANALYSIS TYPE: (Field, Lab, Calculation)	Field	ft ³ /sec	kg/day
UNITS	NTUs		TMDL Info Only
PERMIT LIMITS	Min		
	Mean		
	Max		
DAY OF THE MONTH	1		
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	Monthly Mean		
	Highest Value		
	Lowest Value		
	Number of Exceedances		

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 Regional Environmental Manager
 TITLE OF PRINCIPAL EXECUTIVE OFFICER
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER

2/29/12
 DATE
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Attachment E
 ADOT Discharge Monitoring Report for Analytical Monitoring



ARIZONA DEPARTMENT OF TRANSPORTATION
 Monthly Discharge Monitoring Report (DMR) Form
 for the ADOT Statewide Permit #AZS00018-2008

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

AZS00018-2008
 PERMIT NUMBER

6
 MONITORING POINT ID

0 2 2 0 1 2
 MONTH YEAR

PARAMETERS	TURBIDITY	Streamflow			
		Field	Calc.*		
ANALYSIS TYPE: (Field, Lab, Calculation*)	Field				
UNITS	NTUs	ft ³ /sec	kg/day		
PERMIT LIMITS	Min.			TMDL	
	Mean			Info	
	Max			Only	
DAY OF THE MONTH	1				
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	Monthly Mean				
	Highest Value				
	Lowest Value				
	Number of Exceedances				

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2/29/12
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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

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 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

AZS000018-2008
 PERMIT NUMBER

7
 MONITORING POINT ID

0 2 2 0 1 2
 MONTH YEAR

PARAMETERS	TURBIDITY	Streamflow			
		Field	Calc.*		
ANALYSIS TYPE (Field, Lab, Calculation*)	Field	Field	kg/day		
UNITS	NTUs	ft ³ /sec	kg/day		
PERMIT LIMITS	Min.			TMDL Info Only	
	Mean				
	Max.				
DAY OF THE MONTH	1				
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	Monthly Mean				
	Highest Value				
	Lowest Value				
	Number of Exceedances				

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2/29/12
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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
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 SR 260 Doubtful Canyon Section

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 Water Quality Group
 1611 W. Jackson Street, MD EM02
 Phoenix, AZ 85007

AZS000018-2008
 PERMIT NUMBER

8
 MONITORING POINT ID

0 2 2 0 1 2
 MONTH YEAR

PARAMETERS	TURBIDITY	Streamflow	
		Field	Calc.*
ANALYSIS TYPE: (Field, Lab, Calculation)	Field	ft ³ /sec	kg/day
UNITS	NTUs		TMDL Info Only
PERMIT LIMITS	Min		
	Mean		
	Max		
DAY OF THE MONTH	1		
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	Monthly Mean		
	Highest Value		
	Lowest Value		
	Number of Exceedances		

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2/29/12
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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
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PROJECT NAME AND ADDRESS:
 SR 260 Doubtful Canyon Section

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 Water Quality Group
 1611 W. Jackson Street, MD EM02
 Phoenix, AZ 85007

AZS000018-2008
 PERMIT NUMBER

1
 MONITORING POINT ID

0 3 2 0 1 2
 MONTH YEAR

PARAMETERS	ANALYSIS TYPE (Field, Lab, Calculation*)	UNITS	PERMIT LIMITS		TURBIDITY	Streamflow								
			Min.	Mean		Max.	Field	Calc.*						
					NTUs	ft ³ /sec	kg/day	TMDL	Info	Only				
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Highest Value														
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Number of Exceedances														

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3/30/12
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Attachment E
 ADOT Discharge Monitoring Report for Analytical Monitoring



ARIZONA DEPARTMENT OF TRANSPORTATION
 Monthly Discharge Monitoring Report (DMR) Form
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 Water Quality Group
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 Phoenix, AZ 85007

AZS000018-2008
 PERMIT NUMBER

2
 MONITORING POINT ID

0 3 2 0 1 2
 MONTH YEAR

PARAMETERS	TURBIDITY	Streamflow	
		Field	Calc.*
ANALYSIS TYPE (Field, Lab, Calculation*)	Field	ft ³ /sec	kg/day
UNITS	NTUs		TMDL Info Only
PERMIT LIMITS	Min.		
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Monthly Mean			
Highest Value			
Lowest Value			
Number of Exceedances			

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3/30/12
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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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 SR 260 Doubtful Canyon Section

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 Water Quality Group
 1611 W. Jackson Street, MD EM02
 Phoenix, AZ 85007

AZS000018-2008
 PERMIT NUMBER

3
 MONITORING POINT ID

0 3 2 0 1 2
 MONTH YEAR

PARAMETERS	TURBIDITY	Streamflow	
		Field	Calc. *
ANALYSIS TYPE: (Field, Lab, Calculation)	Field	ft ³ /sec	kg/day
UNITS	NTUs		TMDL
PERMIT LIMITS	Min		Info
	Mean		Only
	Max		
DAY OF THE MONTH	1		
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	Monthly Mean		
	Highest Value		
	Lowest Value		
	Number of Exceedances		

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3/30/12
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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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PROJECT NAME AND ADDRESS:
 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

AZS000018-2008
 PERMIT NUMBER

4
 MONITORING POINT ID

0 3 2 0 1 2
 MONTH YEAR

PARAMETERS	TURBIDITY	Streamflow	
		Field	Calc.*
ANALYSIS TYPE: (Field, Lab, Calculation*)	Field	ft ³ /sec	kg/day
UNITS	NTUs		TMDL Info Only
PERMIT LIMITS	Min		
	Mean		
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Monthly Mean			
Highest Value			
Lowest Value			
Number of Exceedances			

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Attachment E
 ADOT Discharge Monitoring Report for Analytical Monitoring



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 for the ADOT Statewide Permit #AZS000018-2008

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 SR 260 Doubtful Canyon Section

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 Water Quality Group
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 Phoenix, AZ 85007

AZS000018-2008
 PERMIT NUMBER

5
 MONITORING POINT ID

0 3 2 0 1 2
 MONTH YEAR

PARAMETERS	TURBIDITY	Streamflow	
		Field	Calc.*
ANALYSIS TYPE (Field, Lab, Calculation*)	Field	ft ³ /sec	kg/day
UNITS	NTUs		TMDL Info Only
PERMIT LIMITS	Min:		
	Mean:		
	Max:		
DAY OF THE MONTH	1		
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	Monthly Mean		
	Highest Value		
	Lowest Value		
	Number of Exceedances		

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3/30/12
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Attachment E
 ADOT Discharge Monitoring Report for Analytical Monitoring



ARIZONA DEPARTMENT OF TRANSPORTATION
 Monthly Discharge Monitoring Report (DMR) Form
 for the ADOT Statewide Permit #AZS00018-2008

NO DISCHARGE
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PROJECT NAME AND ADDRESS:
 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

AZS00018-2008
 PERMIT NUMBER

6
 MONITORING POINT ID

0 3 2 0 1 2
 MONTH YEAR

PARAMETERS	TURBIDITY	Streamflow			
		Field	Calc.*		
ANALYSIS TYPE (Field, Lab, Calculation?)	Field				
UNITS	NTUs	ft ³ /sec	kg/day		
PERMIT LIMITS	Min				TMDL
	Mean				Info
	Max				Only
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Highest Value					
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3/30/12
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Attachment E
 ADOT Discharge Monitoring Report for Analytical Monitoring



ARIZONA DEPARTMENT OF TRANSPORTATION
 Monthly Discharge Monitoring Report (DMR) Form
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AZS00018-2008
 PERMIT NUMBER

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 MONITORING POINT ID

0 3 2 0 1 2
 MONTH YEAR

PARAMETERS	TURBIDITY	Streamflow	
		Field	Calc.*
ANALYSIS TYPE (Field, Lab, Calculation*)	Field	ft ³ /sec	kg/day
UNITS	NTUs		TMDL Info Only
PERMIT LIMITS	Min.		
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Highest Value			
Lowest Value			
Number of Exceedances			

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 Phoenix, AZ 85007

AZS000018-2008
 PERMIT NUMBER

8
 MONITORING POINT ID

0 3 2 0 1 2
 MONTH YEAR

PARAMETERS	TURBIDITY	Streamflow	
		Field	Calc.*
ANALYSIS TYPE (Field, Lab, Calculation*)	Field	ft ³ /sec	kg/day
UNITS	NTUs		TMDL Info Only
PERMIT LIMITS	Min		
	Mean		
	Max		
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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

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 insure 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.

John J Baker, CPESC ECC
 NAME OF PRINCIPAL EXECUTIVE OFFICER
 Regional Environmental Manager
 TITLE OF PRINCIPAL EXECUTIVE OFFICER
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER

3/30/12
 DATE
 (602) 370-6387
 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

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

AZS00018-2008
 PERMIT NUMBER

1
 MONITORING POINT ID

0 4 2 0 1 2
 MONTH YEAR

PARAMETERS	TURBIDITY	Streamflow	
		Field	Calc.*
ANALYSIS TYPE (Field, Lab, Calculation*)	Field	ft ³ /sec	kg/day
UNITS	NTUs		TMDL Info Only
PERMIT LIMITS	Min.		
	Mean		
	Max.		
DAY OF THE MONTH	1		
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	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
 TITLE OF PRINCIPAL EXECUTIVE OFFICER
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER

4/30/12
 DATE
 (602) 370-6387
 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

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
 PERMIT NUMBER

2
 MONITORING POINT ID

0 4 2 0 1 2
 MONTH YEAR

PARAMETERS	TURBIDITY				Streamflow	
	ANALYSIS TYPE (Field, Lab, Calculation*)	Field			Field	Calc.*
UNITS		NTUs			ft ³ /sec	kg/day
PERMIT LIMITS	Min.					TMDL Info Only
	Mean					
	Max.					
DAY OF THE MONTH	1					
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	Monthly Mean					
	Highest Value					
	Lowest Value					
	Number of Exceedances					

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John J Baker, CPESC ECC
 NAME OF PRINCIPAL EXECUTIVE OFFICER
 Regional Environmental Manager
 TITLE OF PRINCIPAL EXECUTIVE OFFICER
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER

4/30/12
 DATE
 (602) 370-6387
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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 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

AZS000018-2008
 PERMIT NUMBER

3
 MONITORING POINT ID

0 4 2 0 1 2
 MONTH YEAR

PARAMETERS	TURBIDITY	Streamflow	
		Field	Calc.*
ANALYSIS TYPE: (Field, Lab, Calculation*)	Field	ft ³ /sec	kg/day
UNITS	NTUs		TMDL Info Only
PERMIT LIMITS	Min		
	Mean		
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DAY OF THE MONTH	1		
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	Monthly Mean		
	Highest Value		
	Lowest Value		
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 NAME OF PRINCIPAL EXECUTIVE OFFICER
 Regional Environmental Manager
 TITLE OF PRINCIPAL EXECUTIVE OFFICER
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER

4/30/12
 DATE
 (602) 370-6387
 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 #AZS00018-2008

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 EM03
 Phoenix, AZ 85007

AZS00018-2008
 PERMIT NUMBER

4
 MONITORING POINT ID

0 4 2 0 1 2
 MONTH YEAR

PARAMETERS	TURBIDITY				Streamflow	
	ANALYSIS TYPE (Field, Lab, Calculation*)	Field			Field	Calc.*
UNITS		NTUs			ft ³ /sec	kg/day
PERMIT LIMITS	Min.					TMDL
	Mean					Info
	Max.					Only
DAY OF THE MONTH	1					
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Monthly Mean						
Highest Value						
Lowest Value						
Number of Exceedances						

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John J Baker, CPESC ECC
 NAME OF PRINCIPAL EXECUTIVE OFFICER
 Regional Environmental Manager
 TITLE OF PRINCIPAL EXECUTIVE OFFICER
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER

4/30/12
 DATE
 (602) 370-6387
 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

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
 PERMIT NUMBER

5
 MONITORING POINT ID

0 4 2 0 1 2
 MONTH YEAR

PARAMETERS	TURBIDITY	Streamflow			
		Field	Calc.*	ft ³ /sec	kg/day
ANALYSIS TYPE (Field, Lab, Calculation*)	Field				
UNITS	NTUs				
PERMIT LIMITS	Min.				TMDL Info Only
	Mean				
	Max.				
DAY OF THE MONTH	1				
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	Monthly Mean				
	Highest Value				
	Lowest Value				
	Number of Exceedances				

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 Regional Environmental Manager
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 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER

4/30/12
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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 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
 PERMIT NUMBER

6
 MONITORING POINT ID

0 4 2 0 1 2
 MONTH YEAR

PARAMETERS	TURBIDITY	Streamflow	
		Field	Calc.*
ANALYSIS TYPE (Field, Lab, Calculation*)	Field	ft ³ /sec	kg/day
UNITS	NTUs		TMDL Info Only
PERMIT LIMITS	Min:		
	Mean:		
	Max:		
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Monthly Mean			
Highest Value			
Lowest Value			
Number of Exceedances			

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John J Baker, CPESC ECC
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 Regional Environmental Manager
 TITLE OF PRINCIPAL EXECUTIVE OFFICER
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER

4/30/12
 DATE
 (602) 370-6387
 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

NO DISCHARGE
 THIS MONTH

PROJECT NAME AND ADDRESS:
 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

AZS000018-2008
 PERMIT NUMBER

7
 MONITORING POINT ID

0 4 2 0 1 2
 MONTH YEAR

PARAMETERS	TURBIDITY				Streamflow	
	ANALYSIS TYPE: (Field, Lab, Calculation*)	Field			Field	Calc.*
UNITS		NTUs			ft ³ /sec	kg/day
PERMIT LIMITS	Min					TMDL Info Only
	Mean					
	Max					
DAY OF THE MONTH	1					
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Monthly Mean						
Highest Value						
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Number of Exceedances						

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 Regional Environmental Manager
 TITLE OF PRINCIPAL EXECUTIVE OFFICER
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4/30/12
 DATE
 (602) 370-6387
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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 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
 PERMIT NUMBER

8
 MONITORING POINT ID

0 4 2 0 1 2
 MONTH YEAR

PARAMETERS	TURBIDITY	Streamflow	
		Field	Calc.*
ANALYSIS TYPE (Field, Lab, Calculation*)	Field	ft ³ /sec	kg/day
UNITS	NTUs		TMDL Info Only
PERMIT LIMITS	Min		
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Monthly Mean			
Highest Value			
Lowest Value			
Number of Exceedances			

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 Regional Environmental Manager
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4/30/12
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Attachment E
 ADOT Discharge Monitoring Report for Analytical Monitoring



ARIZONA DEPARTMENT OF TRANSPORTATION
 Monthly Discharge Monitoring Report (DMR) Form
 for the ADOT Statewide Permit #AZS00018-2008

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

AZS00018-2008
 PERMIT NUMBER

1
 MONITORING POINT ID

0 5 2 0 1 2
 MONTH YEAR

PARAMETERS	TURBIDITY				Streamflow	
	ANALYSIS TYPE: (Field, Lab, Calculation*)	Field			Field	Calc.*
UNITS		NTUs			ft ³ /sec	kg/day
PERMIT LIMITS	Min.					TMDL
	Mean					Info
	Max.					Only
DAY OF THE MONTH	1					
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Highest Value						
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 NAME OF PRINCIPAL EXECUTIVE OFFICER
 Regional Environmental Manager
 TITLE OF PRINCIPAL EXECUTIVE OFFICER
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER

5/31/12
 DATE
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Attachment E
 ADOT Discharge Monitoring Report for Analytical Monitoring



ARIZONA DEPARTMENT OF TRANSPORTATION
 Monthly Discharge Monitoring Report (DMR) Form
 for the ADOT Statewide Permit #AZS00018-2008

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

AZS00018-2008
 PERMIT NUMBER

2
 MONITORING POINT ID

0 5 2 0 1 2
 MONTH YEAR

PARAMETERS	TURBIDITY	Streamflow	
		Field	Calc.*
ANALYSIS TYPE: (Field, Lab, Calculation*)	Field	ft ³ /sec	kg/day
UNITS	NTUs		TMDL Info Only
PERMIT LIMITS	Min		
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	Max		
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 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER

5/31/12
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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 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

AZS000018-2008
 PERMIT NUMBER

3
 MONITORING POINT ID

0 5 2 0 1 2
 MONTH YEAR

PARAMETERS	TURBIDITY					Streamflow	
	ANALYSIS TYPE (Field, Lab, Calculation*)	Field				Field	Calc.*
UNITS		NTUs				ft ³ /sec	kg/day
PERMIT LIMITS	Min.						TMDL Info Only
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Highest Value							
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Number of Exceedances							

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 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER

5/31/12
 DATE
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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 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
 PERMIT NUMBER

4
 MONITORING POINT ID

0 5 2 0 1 2
 MONTH YEAR

PARAMETERS	TURBIDITY				Streamflow	
	ANALYSIS TYPE (Field, Lab, Calculation)	Field			Field	Calc.*
UNITS		NTUs			ft ³ /sec	kg/day
PERMIT LIMITS	Min					TMDL Info Only
	Mean					
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	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

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.

John J Baker, CPESC ECC
 NAME OF PRINCIPAL EXECUTIVE OFFICER
 Regional Environmental Manager
 TITLE OF PRINCIPAL EXECUTIVE OFFICER
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER

5/31/12
 DATE
 (602) 370-6387
 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

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
 PERMIT NUMBER

5
 MONITORING POINT ID

0	5	2	0	1	2
MONTH			YEAR		

PARAMETERS	TURBIDITY	Streamflow			
		Field	Calc.*	Field	Calc.*
ANALYSIS TYPE (Field, Lab, Calculation)	Field				
UNITS	NTUs	ft ³ /sec		kg/day	
PERMIT LIMITS	Min				
	Mean				
	Max				
DAY OF THE MONTH	1				
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	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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Attachment E
 ADOT Discharge Monitoring Report for Analytical Monitoring



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 Monthly Discharge Monitoring Report (DMR) Form
 for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE
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 Water Quality Group
 1611 W. Jackson Street, MD EM02
 Phoenix, AZ 85007

AZS000018-2008
 PERMIT NUMBER

6
 MONITORING POINT ID

0 5 2 0 1 2
 MONTH YEAR

PARAMETERS	TURBIDITY	Streamflow	
		Field	Calc. *
ANALYSIS TYPE (Field, Lab, Calculation*)	Field	ft ³ /sec	kg/day
UNITS	NTUs		TMDL Info Only
PERMIT LIMITS	Min.		
	Mean		
	Max.		
DAY OF THE MONTH	1		
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	31		
	Monthly Mean		
	Highest Value		
	Lowest Value		
	Number of Exceedances		

* TMDL Loading Calculations in kg/day: mg/L x Streamflow x 2.4465 ;e/L x Streamflow x 0.0024465

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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
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 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

AZS000018-2008
 PERMIT NUMBER

7
 MONITORING POINT ID

0 5 2 0 1 2
 MONTH YEAR

PARAMETERS	TURBIDITY	Streamflow	
		Field	Calc.*
ANALYSIS TYPE (Field, Lab, Calculation*)	Field	ft ³ /sec	kg/day
UNITS	NTUs		TMDL Info Only
PERMIT LIMITS	Min:		
	Mean:		
	Max:		
DAY OF THE MONTH	1		
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	31		
	Monthly Mean		
	Highest Value		
	Lowest Value		
	Number of Exceedances		

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Attachment E
 ADOT Discharge Monitoring Report for Analytical Monitoring



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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
 Phoenix, AZ 85007

AZS000018-2008
 PERMIT NUMBER

8
 MONITORING POINT ID

0	5	2	0	1	2
MONTH			YEAR		

PARAMETERS	TURBIDITY	Streamflow	
		Field	Calc.*
ANALYSIS TYPE (Field, Lab, Calculation*)	Field	ft ³ /sec	kg/day
UNITS	NTUs		TMDL Info Only
PERMIT LIMITS	Min.		
	Mean		
	Max.		
DAY OF THE MONTH	1		
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	Monthly Mean		
	Highest Value		
	Lowest Value		
	Number of Exceedances		

* TMDL Loading Calculations in kg/day: mg/L x Streamflow x 2.4465 ;e/L x Streamflow x 0.0024465

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 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER

5/31/12
 DATE
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APPENDIX J
Storm Event Records for MS4 Monitoring Locations

Storm Event Record
2011-2012 Report Year
ADOT MS4 Sampling Locations

	Date	Outfall 1 Phoenix	Rainfall (inches)	Outfall 2 Sedona	Rainfall (inches)	Outfall 3 Flagstaff	Rainfall (inches)	Outfall 4 Tucson	Rainfall (inches)	Outfall 5 Nogales	Rainfall (inches)
Summer June 1 - Oct. 31	07/24/2011	-	-	-	-	-	-	NS	0.26	-	-
	07/25/2011	-	-	-	-	NS	0.34	-	-	-	-
	07/30/2011	NS	0.13	-	-	-	-	-	-	-	-
	8/2/2011	-	-	-	-	-	-	NS	0.21	-	-
	08/03/2011	-	-	-	-	NS	0.22	-	-	-	-
	08/14/2011	-	-	-	-	NS	0.49	-	-	-	-
	08/18/2011	-	-	-	-	-	-	NS	0.26	-	-
	09/05/2011	-	-	-	-	NS	0.13	-	-	-	-
	09/10/2011	-	-	-	-	-	-	NS	1.4	-	-
	09/15/2011	-	-	-	-	IF	0.1	-	-	-	-
	10/02/2011	-	-	-	-	-	-	NS	0.13	-	-
	10/06/2011	-	-	-	-	NS	0.51	-	-	-	-
	10/26/2011	-	-	-	-	NS	0.13	-	-	-	-
	06/16/2012	-	-	-	-	-	-	IF	0.16	IF	0.1
06/27/2012	-	-	-	-	-	-	NS	0.32	IF	0.1	
Winter Nov. 1 - May 31	11/07/2011	-	-	-	-	-	-	PS	0.28	-	-
	11/05/2011	PS	0.24	-	-	-	-	-	-	-	-
	11/13/2011	IF	0.1	-	-	-	-	NS	0.39	-	-
	12/01/2011	-	-	-	-	-	-	IF	0.12	-	-
	12/12/2011	NS	0.19	-	-	-	-	-	-	-	-
	12/13/2011	-	-	-	-	-	-	NS	0.37	-	-
	12/18/2011	-	-	-	-	-	-	NS	0.1	-	-
	01/15/2012	-	-	-	-	-	-	IF	0.13	-	-
	02/12/2012	-	-	IF	0.1	-	-	-	-	-	-
	03/18/2012	-	-	-	-	-	-	NS	0.23	-	-
	03/24/2012	IF	0.11	-	-	-	-	-	-	-	-
	04/14/2012	-	-	-	-	-	-	IF	0.1	-	-
	04/17/2012	-	-	-	-	IF	0.1	-	-	-	-
	04/26/2012	-	-	-	-	NS	0.44	-	-	-	-
12/26/2012	-	-	-	-	-	-	-	-	NS	0.14	
12/31/2012	-	-	-	-	-	-	-	-	NS	0.55	

KEY:

- NS** No Sample Collected - equipment malfunction or debris issues
- SC** Sample Collected
- IF** Insufficient Flow for Sample Collection

APPENDIX K
Estimates of Pollutant Loading for MS4 Locations

Phoenix
Tucson

Phoenix

Miscellaneous Pollutant Loading Estimate
 ADOT Phoenix MS4
 2011/2012 Report Year

Pollutant Loading: Phoenix MS4-Summer Season (No Sample collected due to equipment failure)					
Pollutant	Unit Conversion Factor	Runoff or R value (inches)	Pollutant Concentration (mg/L)	Area (acres)	Pollutant (lbs)
Oil & Grease (grab)	0.226	0	NS	32.00	0.00
TPH (grab)	0.226	0	NS	32.00	0.00
E. Coli (grab)	103	0	NS	32.00	0.00
BOD	0.226	0	NS	32.00	0.00
COD	0.226	0	NS	32.00	0.00
TSS	0.226	0	NS	32.00	0.00
TDS	0.226	0	NS	32.00	0.00
Total Nitrogen	0.226	0	NS	32.00	0.00
TKN	0.226	0	NS	32.00	0.00
Total Phosphorous	0.226	0	NS	32.00	0.00
Metals - varies	0.226	0	NS	32.00	0.00
Drainage Area (acres)	32				
Winter Runoff	0				
Winter Rainfall	0				
Percent of Rainfall Runoff	0.9				
Percent of Site Impervious	0.95				
Runoff Factor	0.905				

Simple Method Pollutant Calculation: $L=0.226 \cdot R \cdot C \cdot A$
 Simple Method Bacteria Calculation: $L=103 \cdot R \cdot C \cdot A$

NS = No Sample

Miscellaneous Pollutant Loading Estimate
 ADOT Phoenix MS4
 2011/2012 Report Year

Pollutant Loading: Phoenix MS4-Winter Season (Partial sample collected 11/5/11)					
Pollutant	Unit Conversion Factor	Runoff or R value (inches)	Pollutant Concentration (mg/L)*	Area (acres)	Pollutant (lbs)
Oil & Grease (grab)	0.226	0.2052	7.3	32.00	10.83
TPH (grab)	0.226	0.2052	0.29	32.00	0.43
E. Coli (grab)	103	0.2052	170	32.00	114,977.66
BOD	0.226	0.2052	NS	32.00	0.00
COD	0.226	0.2052	NS	32.00	0.00
TSS	0.226	0.2052	NS	32.00	0.00
TDS	0.226	0.2052	NS	32.00	0.00
Total Nitrogen	0.226	0.2052	NS	32.00	0.00
TKN	0.226	0.2052	NS	32.00	0.00
Total Phosphorous	0.226	0.2052	NS	32.00	0.00
Metals - varies	0.226	0.2052	NS	32.00	0.00
Drainage Area (acres)	32				
Winter Runoff	0.2052				
Winter Rainfall	0.24				
Percent of Rainfall Runoff	0.9				
Percent of Site Impervious	0.95				
Runoff Factor	0.905				

* E. Coli concentration is in billion colonies
 Simple Method Pollutant Calculation: $L=0.226 \cdot R \cdot C \cdot A$
 Simple Method Bacteria Calculation: $L=103 \cdot R \cdot C \cdot A$

NS = No Sample

Miscellaneous Pollutant Loading Estimate
 ADOT Phoenix MS4
 2011/2012 Report Year

Annual Pollutant Loading: Phoenix MS4- Event Mean Concentration					
Pollutant	Unit Conversion Factor	Runoff or R value (inches)	EMC (mg/L)	Area (acres)	Pollutant (lbs)
BOD	0.226	0.2052	NS	32.00	0.00
COD	0.226	0.2052	NS	32.00	0.00
TSS	0.226	0.2052	NS	32.00	0.00
TDS	0.226	0.2052	NS	32.00	0.00
Total Nitrogen	0.226	0.2052	NS	32.00	0.00
TKN	0.226	0.2052	NS	32.00	0.00
Total Phosphorous	0.226	0.2052	NS	32.00	0.00
Metals - varies	0.226	0.2052	NS	32.00	0.00
Drainage Area (acres)	32				
Winter Runoff	0.2052				
Winter Rainfall	0.24				
Percent of Rainfall Runoff	0.9				
Percent of Site Impervious	0.95				
Runoff Factor	0.905				

Note: Event Mean Concentration (EMC) is the pollutant concentration of flow-weighted sampling (multiple aliquots) collected during the course of a storm.
 No flow weighted composite samples collected/analyed due to equipment issues

NS = No Sample

Tucson

Miscellaneous Pollutant Loading Estimate
 ADOT Tucson MS4
 2011/2012 Report Year

Pollutant Loading: Tucson MS4-Summer Season (No Sample collected due to equipment failure)					
Pollutant	Unit Conversion Factor	Runoff or R value (inches)	Pollutant Concentration (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				

Simple Method Pollutant Calculation: $L=0.226 \cdot R \cdot C \cdot A$
 Simple Method Bacteria Calculation: $L=103 \cdot R \cdot C \cdot A$

NS = No Sample

Miscellaneous Pollutant Loading Estimate
 ADOT Tucson MS4
 2011/2012 Report Year

Pollutant Loading: Tucson MS4-Winter Season (Partial sample collected 11/7/11)																																	
Pollutant	Unit Conversion Factor	Runoff or R value (inches)	Pollutant Concentration (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																												
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																												
<table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="width: 30%;">Drainage Area (acres)</td> <td style="width: 15%; text-align: center;">4.8</td> <td colspan="4"></td> </tr> <tr> <td>Winter Runoff</td> <td style="text-align: center;">0.2052</td> <td colspan="4"></td> </tr> <tr> <td>Winter Rainfall</td> <td style="text-align: center;">0.24</td> <td colspan="4"></td> </tr> <tr> <td>Percent of Rainfall Runoff</td> <td style="text-align: center;">0.9</td> <td colspan="4" rowspan="3"> * E. Coli concentration is in billion colonies Simple Method Pollutant Calculation: $L=0.226 \cdot R \cdot C \cdot A$ Simple Method Bacteria Calculation: $L=103 \cdot R \cdot C \cdot A$ </td> </tr> <tr> <td>Percent of Site Impervious</td> <td style="text-align: center;">0.95</td> </tr> <tr> <td>Runoff Factor</td> <td style="text-align: center;">0.905</td> </tr> </tbody> </table>						Drainage Area (acres)	4.8					Winter Runoff	0.2052					Winter Rainfall	0.24					Percent of Rainfall Runoff	0.9	* E. Coli concentration is in billion colonies Simple Method Pollutant Calculation: $L=0.226 \cdot R \cdot C \cdot A$ Simple Method Bacteria Calculation: $L=103 \cdot R \cdot C \cdot A$				Percent of Site Impervious	0.95	Runoff Factor	0.905
Drainage Area (acres)	4.8																																
Winter Runoff	0.2052																																
Winter Rainfall	0.24																																
Percent of Rainfall Runoff	0.9	* E. Coli concentration is in billion colonies Simple Method Pollutant Calculation: $L=0.226 \cdot R \cdot C \cdot A$ Simple Method Bacteria Calculation: $L=103 \cdot R \cdot C \cdot A$																															
Percent of Site Impervious	0.95																																
Runoff Factor	0.905																																

NS = No Sample; ND = Non Detect

Miscellaneous Pollutant Loading Estimate
 ADOT Tucson MS4
 2011/2012 Report Year

Annual Pollutant Loading: Tucson MS4- Event Mean Concentration					
Pollutant	Unit Conversion Factor	Runoff or R value (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				
Percent of Site Impervious	0.95				
Runoff Factor	0.905				

Note: Event Mean Concentration (EMC) is the pollutant concentration of flow-weighted sampling (multiple aliquots) collected during the course of a storm.

No flow weighted composite samples collected/analyed due to equipment issues

NS = No Sample