Animas Environmental Services, LLC



Prepared for:
City of Aztec
201 West Chaco
Aztec, New Mexico 87410
and
San Juan County
305 South Oliver Drive
Aztec, New Mexico 87410

NPDES Phase II Small MS4
Annual Report
for
San Juan County
and City of Aztec
San Juan County, New Mexico

September 21, 2015

Prepared by:

Animas Environmental Services, LLC 604 W. Pinon Street Farmington, New Mexico 87401 (505) 564-2281 www.animasenvironmental.com

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NPDES Phase II Small MS4 General Permit Annual Report

San Juan County and City of Aztec San Juan County, New Mexico

1.0 General Information

Animas Environmental Services, LLC has completed this National Pollutant Discharge Elimination System (NPDES) Phase II Municipal Separate Storm Sewer System (MS4) General Permit Annual Report on behalf of the City of Aztec and San Juan County, located in northwest New Mexico.

Municipality/Organization:	City of Aztec and San Juan County
EPA NPDES Permit Number:	Pending
Reporting Period:	July 1, 2014 – June 30, 2015

1.1 Executive Summary

The Storm Water Management Plan outlines the City of Aztec and San Juan County five year program to comply with the U.S. Environmental Protection Agency Phase II Storm Water Final Rule (64 CFR 6872, 8 Dec 99) to improve storm water quality in accordance with the Clean Water Act of 1972. This program also serves to develop, implement, and enforce a storm water management program designed to reduce the discharge of pollutants to the maximum feasible extent possible. The U.S. Environmental Protection Agency has identified six minimum control measures which must be specifically addressed within this plan. City of Aztec and San Juan County must show measurable goals and improvements in these six minimum control areas, which are listed below and outlined in the Table of Contents. These six control measures involve several departments within City of Aztec and San Juan County government. There are numerous storm drain outfalls located in the City and County which discharge into the Waters of the U.S. By following these six control measures, City of Aztec and San Juan County will benefit from significant reductions in pollutants being discharged to these Waters. A record of these results and improvements will be the responsibility of each department.

1.2 Storm Water Management Plan: Six Minimum Control Measures

- 1. Public Education and Outreach
- 2. Public Involvement and Participation
- 3. Illicit Discharge Detection and Elimination (IDDE)
- 4. Construction Site Storm Water Runoff Control
- Post-Construction Storm Water Management in New Development and Redevelopment
- 6. Pollution Prevention and Good House Keeping for Municipal Operators

1.3 Permit Coverage

The Storm Water Management Plan (SWMP) encompasses the urbanized areas within City of Aztec (COA) and San Juan Country (SJC) and covers approximately 44 square miles. The COA has a population of approximately 6,683, and SJC has a population of approximately 128,529 (U.S. Census Bureau 2012).

1.4 Reporting Requirements

The MS4 Annual Report includes the status of compliance with the permit conditions, an assessment of the appropriateness of the Best Management Practices (BMPs) selected, and progress towards achieving the measurable goals for each of the six minimum control measures. The report also summarizes activities undertaken by the COA (City) and SJC (County) during the reporting cycle, any changes to the plan or its measurable goals, and all relevant data obtained during the reporting period. Additionally, any changes made to BMPs or the measurable goals will be addressed.

1.5 Certification

Contact Person: T.J. Richards, San Juan County Special Projects Manager					
Telephone #: (505) 334-4574	Email: trichards@sjcounty.net				
Mailing Address: 305 South Oliver Drive, Aztec,	, New Mexico 87410				
I certify under penalty of law that this document my direction or supervision in accordance with a personnel properly gather and evaluate the info the person or persons who manage the system, gathering the information, the information subrabelief, true, accurate, and complete. I am aware submitting false information, including the poss violations.	a system designed to assure that qualified ormation submitted. Based on my inquiry of or those persons directly responsible for mitted is, to the best of my knowledge and e that there are significant penalties for				
Signature (San Juan County):					
Printed Name:					
Title:					
Date:					

Telephone #:	(505) 334-7600	Email:	JRay@aztecnm.gov
Mailing Address	: 201 West Chaco, Aztec, Ne	ew Mexico 87410	
my direction or personnel properthe person or	ersons who manage the syste formation, the information suurate, and complete. I am aw	th a system desigr nformation submi m, or those perso ubmitted is, to the vare that there are	ned to assure that qualified tted. Based on my inquiry of ns directly responsible for best of my knowledge and
Signature (City o	of Aztec):		_
Printed Name:			_
Title:			_
Date:			_

Contact Person: Josh Ray, Aztec City Manager

2.0 Self-Assessment

COA and SJC have a Storm Water Management Plan (SWMP) in place which is used as a guide to improve storm water quality and implement compliance with the EPA Phase II Final Rule and the Clean Water Act of 1972 (Aztec 2014).

The COA and SJC SWMP emphasizes Public Education and Outreach, and Public Involvement and Participation as control measures in storm water management. Public education and involvement are effective tools that reach across many socio- and economic boundaries, and the effect on public behavior can last indefinitely. The City and County stress these control measures in an effort to increase awareness and prevention, thereby reducing the number of storm water pollution incidents which may occur. Throughout the year, COA and SJC sponsor clean-up efforts and recycling programs, which receive high participation rates by the public and interest groups.

COA and SJC have implemented a Storm Water Hotline to report spills, illicit discharges, illegal dumping, and general comments or complaints from the public regarding storm water runoff. Between July 1, 2014 and June 30, 2015, COA had two reports of illegal dumping, while SJC had 170 reports of illegal dumping. The Storm Water Hotline has proven to be a valuable resource, though the City and County would like to see more participation and reporting by the public.

Both COA and SJC require the approval of submitted construction plans and land use plans that comply with EPA regulations for all construction projects at least one acre in size. Two Notices of Intent (NOIs) for construction stormwater permits were filed with COA as owner/operator for construction sites during this permit period: Ruins Trail Project and River Walk Trail. Two NOIs were also filed with SJC as the owner/operator for construction sites during this permit period: Shiprock Roads Project and San Juan Chapter Roads.

COA and SJC provide a good example with storm water management with regular inspections and maintenance of their vehicles, street sweeping, working with the Adult Detention Center in efforts to help clean up roadways and outfalls, and implementing a sound Pesticide Management Plan, among many other measures. The City and County also provide a number of resources available for the public, such as access to the GeoPortal interactive mapping website, the Storm Water Hotline, listings of solid waste dumping locations, recycling centers, and hosting hazardous waste collection days.

3.0 Summary of Minimum Control Measures

3.1 Public Education and Outreach

3.1.1 Target Audiences

COA and SJC use a variety of methods to reach a diverse audience, such as utilizing mass media campaigns and a mix of resources to promote pollution awareness relevant to the SWMP. The industrial outreach program builds upon existing programs such as setting up a booth at the San Juan County Fair (County Fair), mailing out educational brochures, and recycling to target businesses and industries which significantly impact storm drains.

3.1.2 Education Materials and Strategies

The public education effort informs residents about COA and SJC recycling programs, including proper disposal of used motor oil, chemicals, solvents, and other hazardous household products. Citizen watch groups are encouraged to identify areas regarding storm water pollution. A Storm Water Hotline has been established to aid the community in reporting illicit discharge and potential spills. These strategies involve using various public service announcements, including multilingual posters, brochures, and flyers to help promote awareness in storm water pollution management.

3.1.3 Pesticide Management/Community Awareness

An integrated Pest Management brochure for City and County residents to find alternatives for traditional pesticides has been offered. San Juan County Vector Control and the New Mexico State University's (NMSU's) Extension services have been consulted to address urban pest management. A community education program teaches residents xeriscaping, non-chemical pest control, and removal of pests by non-chemical means. Lawn pesticides (and household) application brochures are available to City and County employees and residents through the existing Pesticide Awareness Program.

Table 1. Public Education and Outreach

BMP ID#	BMP Description	Responsible Dept./ Person Name	Measurable Goals	Progress on Goal(s) – Permit Year 2014-2015	Planned Activities – Permit Year 2015-2016
1.1	Public notice of upcoming meetings and event schedules	Public Works	Submit notices to area newspapers and post on county website (sjcounty.net).	Public has been notified via newspaper articles, fliers, webpages, etc. of upcoming meetings and events.	Continue notifying public through various means of upcoming meetings and events.
1.2	Employee Guide on Storm Water	Public Works	Train all new City and County employees on preventing storm water pollution.	No new employees trained in 2014-2015 permit period for SJC.	Continue training new employees. Update Guide as needed.
1.3	Stencil drain program and mark outfalls	Public Works	Design and post Storm Drain Markers.	Storm Drain Markers were maintained and replaced as needed.	Maintain and add Storm Drain Markers as needed.
1.4	Storm Water Management Training of COA and SJC personnel	Public Works, AES	Attend training programs and classes, EPA Region 6 Storm Water Conference, attend local interest group meetings.	Laurie Martinez of COA and TJ Richards of SJC were updated on stormwater regulations and BMPs. Stephanie Hinds, of AES, is a member of San Juan Watershed Group which meets bimonthly.	Send COA/SJC representative to appropriate conferences, training classes, and group meetings.
1.5	Education through displays at San Juan County Fair	Public Works	Set up booth at County Fair with educational brochures and pamphlets.	Booth set up for August 2015 County Fair. Handed out brochures and pamphlets to residents.	Attend and set up booth display for upcoming County Fair.

BMP ID#	BMP Description	Responsible Dept./ Person Name	Measurable Goals	Progress on Goal(s) – Permit Year 2014-2015	Planned Activities – Permit Year 2015-2016
1.6	Floodplain Management Education	Public Works	Floodplain Management Brochure handed out to City and County residents.	Several hundred brochures handed out at County Fair. Extras saved and handed out at other educational outreach programs. Interactive Floodplain Map available to public on county website.	Continue educating public on flood management and safety.
1.7	Hazardous Products Education	Public Works	Safer Alternatives to Hazardous Products Brochure handed out at County Fair.	Several hundred brochures handed out at County Fair. Extras saved and handed out at other educational outreach programs.	Continue educating public on hazardous products and disposal methods.
1.8	Storm Water Newspaper Articles	Public Works	Newspaper articles notifying public of EPA Storm Water Conference, COA and SJC Storm Water Program, Storm Water Hotline, Hazardous Waste Disposal locations and dates, etc.	Newspaper articles submitted. See Appendix A for a sampling of articles published.	Submit additional newspaper articles as needed.
1.9	Storm Water Flow Chart	Public Works	Education through the use of a SWMP Flow Chart.	Determine if a SWMP Flow Chart would be useful and what it all would entail.	Design SWMP Flow Chart if deemed useful for new employees and COA/SJC residents.
1.10	Pesticide Management Plan	Public Works	Inform/educate residents of pesticide management and offer alternative methods to controlling pests/weeds.	Brochures and pamphlets are made available to public through the Pesticide Awareness Program.	Continue educating the public through the Pesticide Awareness Program.

3.2 Public Involvement and Participation

The COA and SJC public participation control measure has a large public component and involves all socio-economic groups. Support by residents is crucial to the success of the SWMP. Broader public support in the development and decision making process minimizes potential legal challenges and maximizes acceptance and cooperation.

3.2.1 Volunteer Educators/Speakers

Volunteer educators and speakers are encouraged to provide their expertise in the areas of storm water maintenance and pollution prevention. COA and SJC also have the resources available at San Juan College in the fields of water and wildlife conservation, engineering, and hydrology to help support the storm water infrastructure.

3.2.2 Public Meetings/Community Outreach

Public meetings present an opportunity to discuss various topics and provide input concerning appropriate storm water management policies and BMPs. Community clean-up events and activities are City and County sponsored. A telephone hotline has been set up to aid enforcement authorities in the identification of polluters. The program seeks to contact groups such as the City of Aztec Chamber of Commerce, Rotary Clubs, River Walk groups, rafting groups, Glade Recreation Area users, and the Boy and Girl Scouts.

3.2.3 Recycling

Recycling programs have been instituted to recycle yard waste, newspapers, cardboard, plastic, oils, and antifreeze. A recycling program that targets these materials encourages proper disposal and should further reduce pollution of the river and waterways. The feasibility of a swapping center will be discussed in the near future. The swapping center could be used for residents to drop off unused items, such as paint or scrap metal parts, which other residents may be able to use. These efforts will help reduce the amount of usable materials that end up in landfills, as well as provide an affordable alternative disposal method for residents.

Table 2. Public Involvement and Participation

BMP ID#	BMP Description	Responsible Dept./ Person Name	Measurable Goals	Progress on Goal(s) – Permit Year 2014-2015	Planned Activities – Permit Year 2015-2016
2.1	Hazardous Waste Collection	Public Works	Set dates and locations for hazardous waste collection.	Hazardous Waste Collection days: September 6, 2014, and May 2, 2015 at two locations in SJC.	Schedule more Hazardous Waste Collection days throughout 2015-2016 permit period.
2.2	Storm Water Hotline	Public Works	Establish Storm Water Hotline to report spills and illicit discharges.	Storm Water Hotline at (505) 334-4560 successfully operating.	Keep Storm Water Hotline available to public. Increase advertisement of hotline and encourage reporting.
2.3	Reporting Illegal Dumping	Public Works	Establish hotline to report illegal dumping activities.	Hotline to report illegal dumping activities in the County or City Municipalities at (505) 334-6622 successfully operating.	Increase awareness of County Ordinances regarding illegal dumping. Encourage reporting illegal dumping activities.
2.4	Leaf Raking, Pet Waste Disposal	Public Works	Newspaper article addressing proper disposal methods for leaves and pet waste.	Article submitted in the November 2014 Aztec Local News.	Advertise in local newspaper for Fall 2015.

BMP ID#	BMP Description	Responsible Dept./ Person Name	Measurable Goals	Progress on Goal(s) – Permit Year 2014-2015	Planned Activities – Permit Year 2015-2016
2.5	Community Clean-Up Days	Public Works	Community clean-up days for curbside pickup, Freon removal, tree branch/limb recycling, and dump convenience center. Services are free to county residents.	Fall clean-up days held on October 13-16, 2014, and spring clean-up days held on April 20-23, 2015.	Schedule clean-up days for fall 2015 and spring 2016.
2.6	County Adult Detention Facility roadside and yard waste clean-up program	Public Works	Inmates of the Adult Detention Facility assist in roadside and yard clean-up of trash and debris.	Recycled 1,408 units of white goods (e.g. washers, driers, refrigerators) and placed in Compactor/Transfer Station.	Continue working with the County Adult Detention Facility and encouraging volunteer hours from the inmates.
2.7	National Public Lands Day	Public Works and U.S. Department of the Interior	Clean up illegally dumped trash in the BLM Glade Run Recreation Area.	Held on September 14, 2014. Picked up approximately 7 dumpster roll-off loads.	Continue to host National Public Lands Day and encourage additional volunteers.

3.3 Illicit Discharge and Detection Elimination

3.3.1 Visual Inspection/Screening

The illicit discharge detection measure involves City and County staff as well as local citizens. COA and SJC will locate illicit discharge problem areas through visual inspections, public complaints, visual screening, and dry weather screening methods. The program will work to detect and eliminate illicit discharges. COA and SJC will catalog data pertinent to the NPDES program. The data will be available to interested parties. Visual inspection of storm drains will be integral in identifying those areas of the City and County that have frequent occurrences of illicit discharges.

3.3.2 Geographic Information System (GIS) Mapping

GIS is utilized by COA and SJC to map the location of all storm sewer lines, ponds, and other waters that receive storm water discharges. This information is made available through the City and County network and ArcGIS software. All outfalls which discharge into a recognized water body are accurately mapped using Global Positioning Systems (GPS) survey equipment. Thus, an accurate map of the various aspects of the storm water system (catch basins, pipes, culverts, and other storm water structures) can also be depicted. This enables the City and County to accurately locate sources of illicit discharges and the affected downstream waterways. SJC also hosts a GeoPortal page on its county website (www.sjcounty.net). The GeoPortal presents interactive web maps which display educational tools such as land use plans, waterways, floodplains, and SJC road statuses.

3.3.3 Correct Illicit Discharges

If illicit discharges are discovered, reported, or suspected, the City and County address each discharge on a case by case basis, where an educational method to approaching illicit dischargers is first used to help prevent future non-compliance by that person or persons. The City and County will submit a written letter, call, or personally talk to the individuals, with an emphasis on educating them about their actions' impacts to waterways, wildlife, and property value. In the event of re-occurring or illicit discharges with notable consequences, proper authorities are notified and legal action is taken in accordance with County Ordinance No. 73 Trash and Refuse Disposal.

3.3.4 Documentation

COA and SJC catalog pertinent data to the NPDES program. If future sampling in receiving water bodies shows elevated levels of a particular pollutant, then the City and County can use the GIS resource to focus its investigation on possible sources of illicit discharges.

Table 3. Illicit Discharge Detection and Elimination

BMP ID#	BMP Description	Responsible Dept./Person Name	Measurable Goals	Progress on Goal(s) – Permit Year 2014-2015	Planned Activities – Permit Year 2015-2016
3.1	Storm Water Hotline	Public Works	Increase participation of Storm Water Hotline.	Storm Water Hotline established and advertised in local papers, pamphlets, fairs, and educational outreach programs.	Continue advertising hotline. Encourage reporting of illicit dumping and spills.
3.2	Visual inspections and monitoring	Public Works	Locate and report illicit discharges, illegal dumping, and spills.	For COA, two illegal dumping incidents were reported to Storm Water Hotline. For SJC, 170 illegal dumping incidents were reported.	Continue tracking and educating offenders. Continue promoting the use of the Storm Water Hotline for reporting illegal dumping and discharges.
3.3	Storm drains, outfalls, and problematic areas monitoring	Public Works, AES	Visual inspection of storm drains and potential problematic areas.	COA visually inspects and monitors on a yearly basis. SJC visually inspects and monitors on a quarterly basis. Results of inspections are attached in Appendix C.	COA will inspect and monitor annually or as needed. SJC will inspect and monitor every quarter.
3.4	City Ordinance on discharges and illegal dumping	Public Works	Update City Ordinances on prohibition of illicit discharges.	City Ordinances proposed/written but not adopted.	Adopt revised City Ordinances.
3.5	Dumpster in Glade Recreation Area	Public Works, BLM	Set up dumpsters throughout Glade for recreation groups/volunteers to fill.	Six dumpsters set up two to three times a year. Publicized a week beforehand. Six 40-cubic yard roll-off dumpsters were completely filled.	Continue setting out dumpsters and advertising to Glade users. Adjust number of dumpsters or collection days as needed.

3.4 Construction Site Storm Water Runoff Control

3.4.1 Site Plan Review

COA and SJC recognize that construction sites can deposit a significant amount of sediment in a short period of time. The Phase II Rule, according to 40 CFR 122.34(b)(4) (U.S. Government Printing Office 2013), requires the City and County to develop and enforce a storm water management program to address storm water runoff from construction sites one acre or greater in area. The City and County currently require the approval of submitted construction plans and a land use plan that complies with EPA regulations. If construction commences prior to the approval of the plans, heavy fines may be levied.

3.4.2 Erosion Awareness

COA and SJC are adopting smart growth initiatives, such as Low Impact Development (LID) designs, xeriscaping, and rain gardens, to promote open space and native landscaping to help reduce erosion.

3.4.3 Non-Structural BMPs

Non-structural BMPs for storm water runoff from construction sites implemented by COA and SJC include: education and awareness to construction personnel, minimizing disturbance to native soil and vegetation, establishing buffers along streams and waterways, minimizing disturbances of high slope areas, and encouraging sheet flow to vegetated areas. Stream buffer guidance will be encouraged by the Public Works Department Staff such that riparian stream areas are restored with native vegetation. The zone will be 100 to 150 feet wide on both sides of the bank. The buffer includes the 100-year flood plain delineation and is governed by the Flood Plain Manager for COA and SJC.

3.4.4 Structural BMPs

Structural BMPs encouraged by COA and SJC include: check dams, geotextile silt fences, berms, and sediment basins. Native seeds are often incorporated into berms to help stabilize the structure and reduce runoff. This technology has the benefit of being retrofitted in the developed portions of the City and County.

Table 4. Construction Site Storm Water Runoff Control

BMP ID#	BMP Description	Responsible Dept./Person Name	Dept./Person Measurable Goals Progress on Goal(s) - Permit Year 2014-2015		Planned Activities – Permit Year 2015-2016
4.1	Documentation of construction activities one acre or greater in size	Public Works	Record construction activities which result in construction site runoff. Train City and County staff (inspectors and plan reviewers) and construction operators.	Tracked all construction activity related to storm water runoff. Documented sites with inadequate BMPs. Educating construction workers and responsible parties on storm water runoff management. COA filed two NOIs for construction projects (Ruins Trail Project and River Walk Trail), and SJC filed two construction NOIs (Shiprock Roads Project and San Juan Chapter Roads).	Continue to document construction site compliance as needed, and continue educating construction personnel.
4.2	Storm Water Management Plan	Public Works	Construction sites greater than one acre must submit a SWMP.	Include requirements for SWMP in City Ordinances. Inspect sites for compliance.	Continue enforcing SWMP compliance. Revise City Ordinances as needed.
4.3	Education and Implementation of Structural and Non-Structural BMPs	Public Works, Engineering	Educate and encourage construction personnel and contractors to implement BMPs aimed at reducing storm water runoff and erosion.	Observed BMPs and storm water management practices for construction sites.	Continue with education and encouragement of BMP installation and practices.

3.5 Post-Construction Storm Water Management in New Development and Redevelopment

3.5.1 Post-Construction Runoff Control

COA and SJC address post-construction storm water runoff with structural and non-structural BMPs. The controls seek to reduce the amount of impervious cover by increasing natural land and vegetation, and to utilize pervious areas for more effective storm water management. The City and County encourage regional ponds and parks, which provide additional pervious areas and native flora and fauna. The net increase of scenic features will positively impact neighborhood aesthetics and increase residential property values.

Table 5. Post-Construction Storm Water Management in New Development and Redevelopment

BMP ID#	BMP Description	Responsible Dept./ Person Name	Measurable Goals	Progress on Goal(s) – Permit Year 2014-2015	Planned Activities – Permit Year 2015-2016
5.1	Education and Awareness	Public Works	Visit post- construction sites and ensure compliance of City or County Ordinances.	Visited recent post-construction sites. Inspected to ensure compliance with ordinances.	Continue to visit post-construction sites on an asneeded basis or when compliance issues arise.
5.2	Education and Implementation of Structural and Non- Structural BMPs	Public Works, Engineering	Educate and encourage implementation of BMPs aimed at reducing storm water runoff and erosion.	Post-construction BMPs and storm water management practices observed at construction sites, including waddles and drainage.	Continue with education and encouragement of BMP installation and practices.
5.3	EPA Post Construction Workshop	Public Works, Engineering	Attend trainings and seminars on post-construction stormwater.	Attended EPA Post Construction Workshop on December 3, 2014.	Continue attending educational classes and workshops.

3.6.1 Municipal Maintenance

The COA and SJC Pollution Prevention and Good Housekeeping in Municipal Operations Program goals are to reduce pollutant runoff from City and County operations. A vehicle maintenance program requires that all City and County -owned vehicles be regularly inspected to eliminate the amount of oil, grease, and fluid leaks. Street sweeping is performed on all city streets at a frequency based on the most traveled streets and busiest intersections. All street cleaning is performed using vacuum-equipped sweepers. Outfalls are regularly inspected and analyzed according to a standardized checklist. Trouble outfalls are inspected and maintained after every storm event.

3.6.2 City-Wide Clean-Up Days

City-wide clean-up days are held twice a year (April and October) throughout the area for community residents to help clean roadways, side streets, yards, parking lots, ditches, and parks. (Aztec 2014)

Table 6. Pollution Prevention and Good Housekeeping in Municipal Operations

BMP ID#	BMP Description	Responsible Dept./ Person Name	Measurable Goals	Progress on Goal(s) – Permit Year 2014-2015	Planned Activities – Permit Year 2015-2016
6.1	Municipal Maintenance	Public Works	Inspect and maintain City and County vehicles. Sweep streets on a regular basis; sweeping more often on the most traveled and busiest streets. Inspect and maintain outfalls.	Government-owned vehicles are regularly inspected and maintained. 45 miles of paved roads are swept in COA. 236 miles of paved road are swept in SJC. Storm drains and outfalls are regularly inspected and maintained.	Continue inspections and maintenance operations. Continue street sweeping on a regular basis, increase frequency as needed.
6.2	City-Wide Clean-Up Days	Public Works	Hold city-wide public clean-up days.	Clean-up days were held twice a year throughout COA, once in April and again in October.	Continue public clean- up days on a semi-annual basis.

4.0 Field Work

There are 12 designated outfall locations that are routinely inspected during dry weather periods and sampled from during stormwater runoff events. These outfall locations are shown in Figure 1.

4.1 Outfall Inspections

Outfall inspections were performed during dry periods and runoff events for Permit Year 2014-2015. Outfalls were observed for standing water, evidence of recent spills, changes in plant life, eroded banks, and corrective actions that need to be taken. Dry weather inspections were conducted on June 19, 2015, and June 25, 2015. Wet weather inspections were performed on August 13, September 9, and October 9, 2014, and May 12, 2015.

4.2 Stormwater Runoff Sampling and Laboratory Analyses

Stormwater samples were collected during the 2014-2015 permit period and laboratory analyzed for nutrients, metals, oil and grease, *Escherichia coli (E. coli)*, and suspended solids. Stormwater runoff was sampled from several outfalls during runoff events on August 13, September 9, and October 9, 2014, and May 12, 2015.

Stormwater samples collected for laboratory analysis were placed into new, clean, laboratory-supplied containers, which were then labeled, placed on ice, and logged onto a sample chain of custody record. Samples were maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico. Samples were laboratory analyzed for:

- Metals, including Aluminum, Arsenic, Cadmium, Copper, Iron, Lead, Mercury, Nickel, Selenium, and Zinc;
- Nutrients, including Nitrite/Nitrate, Total Kjeldahl Nitrogen (TKN), Ammonia, and total Phosphorus;
- Total Suspended Solids (TSS);
- Oil and Grease: and
- Chemical Oxygen Demand (COD).

In addition, *E.coli* samples were collected and laboratory analyzed by CH2MHill in Farmington, New Mexico.

Completed field forms and laboratory results for the runoff events are shown in Table 1 in Appendix D.

5.0 Summary of Information Collected and Analyzed

COA and SJC have used a number of outreach tools and mass media campaigns to educate the public on storm water management. Examples of such control measures include setting up booths at the County Fair, mailing out educational brochures and fliers, and submitting storm water related articles to the local newspapers. Storm Drain Markers, which have been placed throughout the City and County to inform the public which drains flow directly to nearby rivers or waterways, are checked and replaced as needed. A Pesticide Management Plan is utilized to educate the public on proper spraying methods as well as alternative methods to controlling weeds and insects.

COA and SJC personnel have attended and will continue attending training sessions, meetings, and conferences on storm water. New employees to the City or County are educated by their peers and through reading the Employee Guide on Storm Water.

The City and County sponsor recycling programs several times a year to collect chemicals and hazardous household wastes, a city-wide clean-up twice a year, and the set-up of dumpster in the Glade Recreational Area two to three times a year. Citizen watch groups and general members of the public are encouraged to report spills or illicit discharges through the use of the Storm Water Hotline.

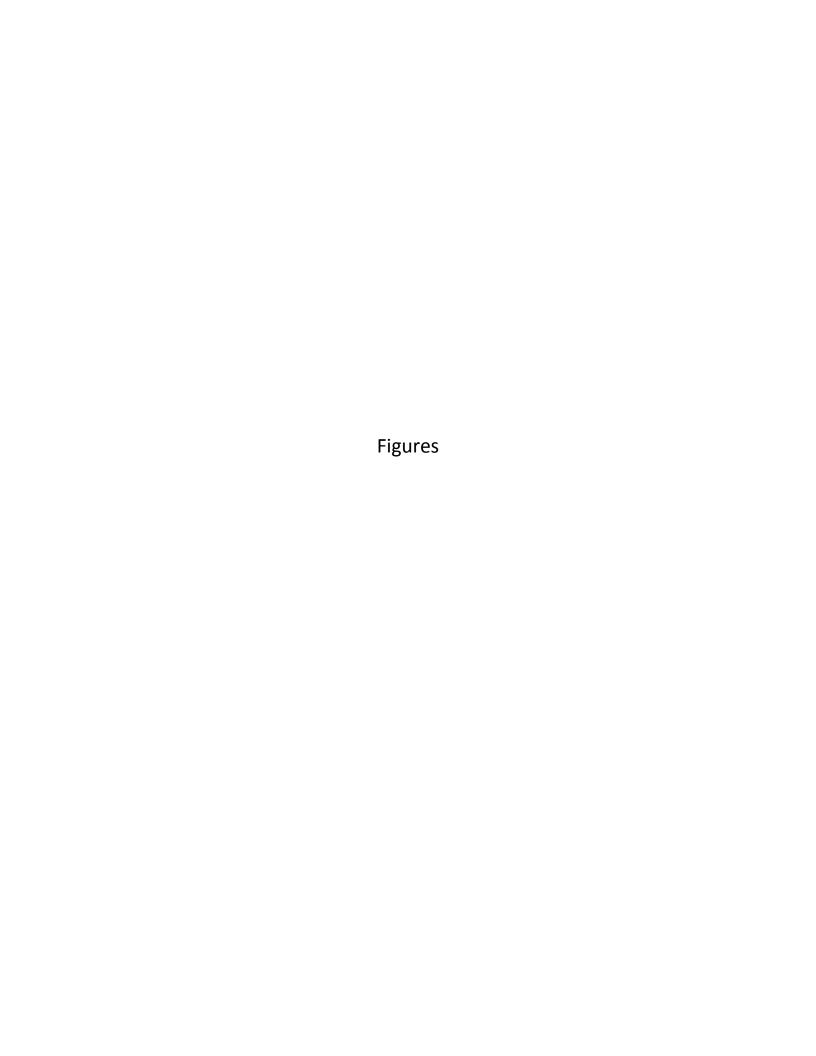
With the help of the Adult Detention Center, COA and SJC were able to collect 1,408 units of white goods, which were taken to the landfill. The City sweeps 45 miles of paved roads, while the County sweeps 236 miles of paved roads. Government vehicle operated are regularly inspected and maintained to prevent fluid leaks.

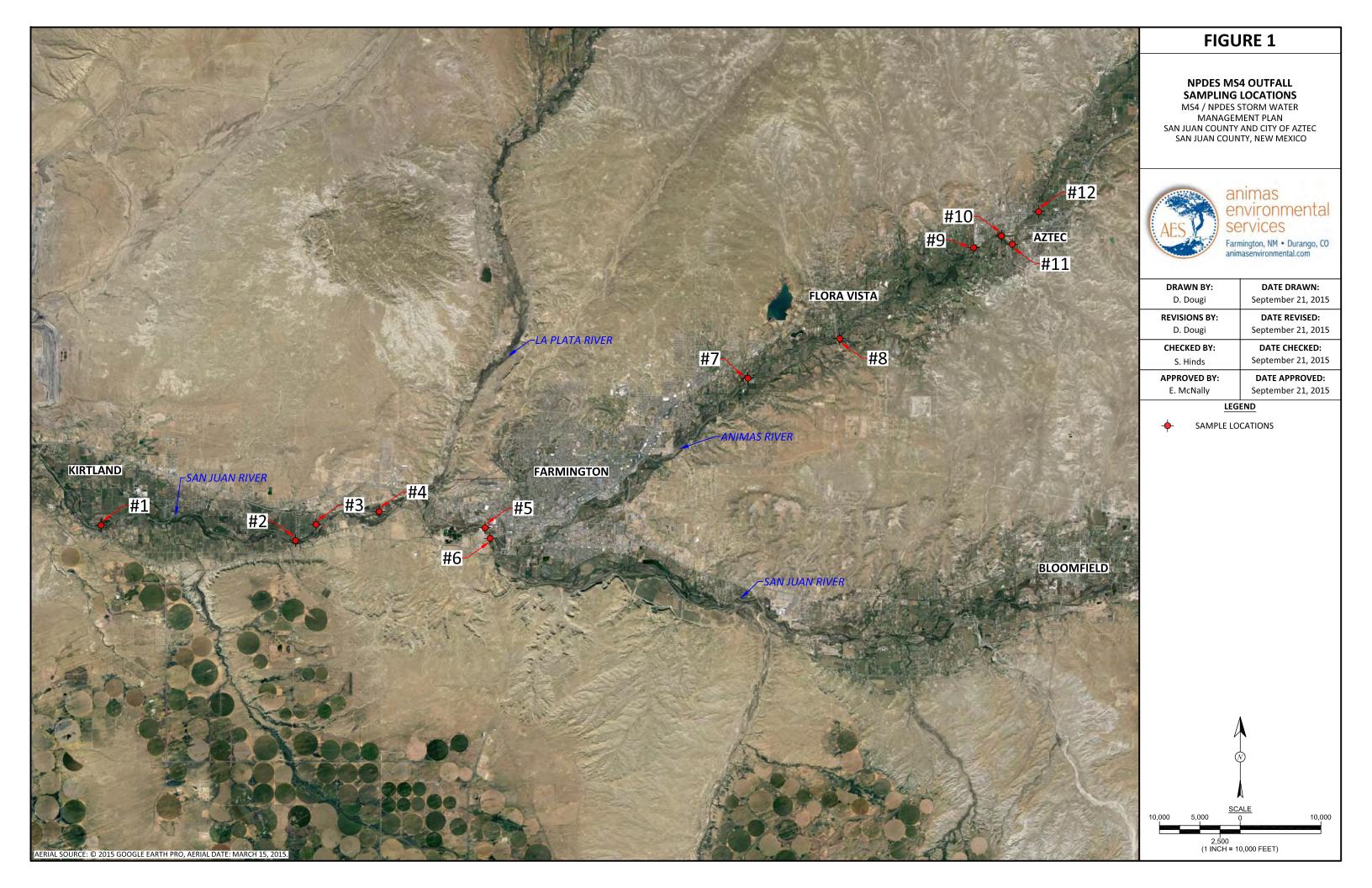
Construction sites equal to or greater than one acre in size are required to submit a storm water management plan in accordance to EPA regulations and City and County Ordinances. The City and County encourage and educate proper installation and maintenance of structural and non-structural BMPs for construction and post-construction sites. LID implementation, xeriscaping, and preservation of natural land and vegetation are also encouraged by COA and SJC.

Stormwater outfalls were inspected throughout the year to ensure they were in good operating condition and to help identify impending structural failures, maintenance needs, and water quality issues of the storm drain system. SJC and COA will continue routine inspections and sampling events to ensure BMPs are met and they are in good operating condition.

5.0 References

- Aztec, San Juan County and City of. *Storm Water Management Plan.* Storm Water Management Plan, Aztec: San Juan County and City of Aztec, 2012.
- Federal Emergency Management Agency. *FEMA News Releases*. December 20, 2013. http://www.fema.gov/news-release/2013/12/20/nm-officials-face-dec-27-deadline-requests-public-assistance (accessed September 24, 2014).
- U.S. Census Bureau. *State and County Quickfacts*. 2012. http://quickfacts.census.gov/qfd/states/35000.html (accessed August 26, 2013).
- U.S. Government Printing Office. *Electronic Code of Federal Regulations*. June 4, 2013. http://www.ecfr.gov/cgi-bin/text-idx?tpl=/ecfrbrowse/Title40/40cfr122_main_02.tpl (accessed July 8, 2013).







Meeting Agenda August 7, 2014

<u>Invitees:</u> NMDOT District 5, City of Aztec, San Juan County, and City of Farmington **Purpose:** to discuss Municipal Separate Storm Sewer System (MS4) Permit coordination.

The participants will discuss the MS4 Permit's six Minimum Control Measures (MCMs). We will discuss the control measures one at a time. Each attendee will explain how they are implementing each control measure. Then we will discuss ways we can coordinate, share, and mutually benefit from our combined efforts. This will include opportunities to share credit for jointly published/distributed pamphlets, coordination of IDDE detection and response, potential water quality testing, and combined trainings.

1)	Public Education and Outreach	
2)	Public Involvement and Participation	
3)	Illicit Discharge Detection and Elimination .	
4)	Construction Site Stormwater runoff control	
5)	Post-Construction Stormwater Management in New Development and Redevelopment	ent
6)	Pollution Prevention and Good Housekeeping in Municipal Operations.	

Richards, T.J.

From:

Smith, Nelly [Smith.Nelly@epa.gov]

Sent:

Wednesday, September 10, 2014 12:32 PM

To:

'dale.tafoya@belen-nm.gov'; 'lucy.baca@belen-nm.gov'; 'rudy.jaramillo@belen-nm.gov'; 'vialpandor@loslunasnm.gov'; 'martinG@loslunasnm.gov'; 'archuletar@loslunasnm.gov';

'vigilr@loslunasnm.gov'; 'clerkadmin@bosquefarmsnm.gov';

'waterdept@bosquefarmsnm.gov'; 'jacobo.martinez@co.valencia.nm.us'; 'hoss.foster@co.valencia.nm.us'; 'sarah.schell@co.valencia.nm.us'; debral@mesilla.nm.gov;

Keck, Dave; dnpike@santafenm.gov; heathera.patrick@rocketmail.com;

henryco@donaanacounty.org; jfkirby@nmsu.edu; jssanchez@santafecounty.nm.gov; Lisa Blueeyes; naschiavo@santafenm.gov; pbennett@las-cruces.org; rrodke@santafecounty.org;

Ted.Barber@state.nm.us; timothyr.trujillo@state.nm.us; Richards, T.J.;

'archuletar@loslunasnm.gov'; 'clerkadmin@bosquefarmsnm.gov'; 'dale.tafoya@belen-

nm.gov'; Hashem Faudi; "hoss.foster@co.valencia.nm.us';

'jacobo.martinez@co.valencia.nm.us'; Loretta Hatch; 'lucy.baca@belen-nm.gov';

'martinG@loslunasnm.gov'; Michael Jaramillo; Nick Telles; 'rudy.jaramillo@belen-nm.gov';

steven Morgenstern; 'vialpandor@loslunasnm.gov'; 'vigilr@loslunasnm.gov';

'waterdept@bosquefarmsnm.gov'; Chris Urioste; Dave Reck; David Catanach; David Martinez; Dorian Alcantar; harold.Love; Hashem Faidi; Josh Ray; Laurie Martinez; Michelle Gutierrez; Miguel Gabaldon; Nica Westerling; Paul Kavanangh; Ray Zamora; Rene Molina;

Robert Duran

Cc:

Larsen, Brent; Holcomb, Sarah, NMENV; Yurdin, Bruce, NMENV

Subject:

RE: Save A Date - Meetings in NM with potential permittees - Statewide MS4 Permit

Please see final dates, times, and locations for the EPA meetings. Please make sure someone from your organization can attend the meeting planned in your Urbanized Area.

I apologize if you are receiving this e-mail for the first time. I have updated the e-mail distribution list based on the attendee signature sheets from last year meetings. As I indicated in my initial e-mail, EPA Region 6 is drafting an NPDES general permit for MS4s located in the State of New Mexico, except for these located in the Middle Rio Grande Watershed in the Albuquerque area. The purpose of these meetings is to provide an overview of the stormwater program and the likely permit requirements.

Meetings Information:

Las Cruces/ El Paso Urbanized Area:

Date and time: September 22 - 10:00 am - 11-130 am

Place: Multi-media Conference Room at the Doña Ana Government Center, located at 845 N Motel Blvd.

Las Cruces, NM

Los Lunas UA

Date and Time: September 22 – 3:30 pm -5:00 pm

Place: Old Valencia County courthouse/ administrative offices, 444 Luna Ave, Los Lunas NM

Farmington UA

Date and Time: September 23 - 1:00 pm - 2:30 pm

Place: San Juan County Commission Chambers at 100 S. Oliver Drive, City of Aztec

Santa Fe UA

Date and Time: September 24 - 8:00 am to 11:30 am

Place:

State Records Center & Archives - Yucca Room (#2022) on the second floor

1205 Camino Carlos Rev

EPA Post-Construction Region 6 Workshops New Mexico









Las Cruces/El Paso

Urbanized Area Workshop Date: December 1, 2014 Time: 9:30 am to 5:00 pm Location: Doña Ana **Government Center** 845 N. Motel Blvd. Las Cruces, NM 88007

Farmington

Urbanized Area Workshop Date: December 3, 2014 Time: 8:30 am to 4:00 pm Location: San Juan County **Commission Chambers** 100 South Oliver Drive Aztec, NM 87410

Albuquerque

Urbanized Area Workshop Date: December 4, 2014 Time: 8:30 am to 4:00 pm Location: City of Albuquerque Convention Center, Taos Room 401 2nd St NW Albuquerque, NM 87102

EPA is inviting you to participate in one of the three post-construction stormwater workshops being held in Las Cruces, Aztec, and Albuquerque, NM, during the dates and locations listed above. Implementation of Green Infrastructure and Low Impact Development practices are an important tool for protecting water quality and useful in meeting post-construction runoff control requirements in MS4 permits across the country.

The goal of the workshops is to educate municipal staff and engineers on how to design sites to mimic predevelopment conditions. The workshops will include case studies of projects that have implemented stormwater controls in arid and semi-arid areas. The workshops will also present the analysis carried out in a Middle Rio Grande Predevelopment Hydrology Study. See additional information on this study at

http://epa.gov/region6/water/npdes/sw/ms4/nfs albuquerque report april2014 v2.pdf

The workshops are open to MS4s, developers, State and Federal regulators, and other stormwater practitioners involved with the municipal stormwater program. The workshops will be at no cost, but due to limited space, attendees need to register using the following website:

http://water.epa.gov/polwaste/npdes/NPDES-Training-Courses-and-Workshops.cfm

MUNICIPAL STORMWATER PROGRAM



For additional information contact Nelly Smith (EPA R6 MS4 Coordinator) at 214-665-7109 or via e-mail at smith.nelly@epa.gov

Richards, T.J.

From: Sent:

Subject:

Smith, Nelly [Smith.Nelly@epa.gov] Friday, August 22, 2014 3:00 PM FW: Runoff Rundown August 2014

FYI

Nelly Smith Industrial and Municipal Stormwater Coordinator EPA Region 6 Permits and Technical Assistance Section NPDES Permits and TMDLs Branch

ph: 214-665-7109

Email: smith.nelly@epa.gov

From: Center for Watershed Protection, Inc. [mailto:center@cwp.org]

Sent: Thursday, August 21, 2014 9:26 AM

To: Smith, Nelly

Subject: Runoff Rundown August 2014



Monthly News from the Center for Watershed Protection 55

August 2014 * Issue

Click Here to read the entire issue online.

INSIDE THIS

News from The Center

Latest Webcast

CWPA Member Profile

Clean Water

Center Developing Optimization Tool for Stormwater Pollution Reduction



The Center is developing a Clean Water Optimization Tool to help Maryland Eastern Shore counties develop more realistic and cost-effective pollution reduction strategies.

Communities on the Eastern Shore of Maryland face some unique challenges with developing stormwater pollution reduction strategies to meet the Chesapeake Bay total maximum daily load (TMDL)

Optimization Tool

Citizen Pollution Monitoring

BMP Design Projects

MEWS FROM THE HENTER



Maria de la companya de la companya

Read more...

LATEST WEBCAST



Stream Restoration as a Pollutant Reduction Strategy

September 10, 2014 * Time 1-3pm EST

Read more...

CWP ASSOC.



Riverside County
Flood Control & Water
Conservation District is
Going Green with
Stormwater Capture
Read more...

requirements. Each county was tasked with developing a Phase II Watershed Implementation Plan (WIP) that outlines how they will achieve the TMDL reductions, which will be enforced through the National Pollution Discharge and Elimination System (NPDES) municipal separate storm sewer system (MS4) permit program. Only two Eastern Shore municipalities are currently regulated under the MS4 program, leaving the remaining counties uncertain of their legal obligation to reduce nutrient and sediment loads. **Read more...**

Monitoring Guide for Citizens Targets Sewage Discharges



Water that is contaminated with sewage presents a serious health risk at beaches and in rivers and streams throughout the United States. A 2012 estimate by the US Environmental Protection Agency showed that 35% of US waters are not even clean enough to support fishing or swimming because of pollutants such as bacteria. In

urban areas, untreated or partially treated sewage makes its way into rivers and streams through sewer overflows and leaks, dumping, illegal sewer connections and failing septic systems.

The Center has been working at both the local and federal levels to address the important issue of sewage discharges, including authoring a national guidance on Illicit Discharge Detection and Elimination (IDDE) in 2004 and working with more than 20 communities to implement and refine the monitoring protocols for identifying and tracking the sources of sewage discharges. The IDDE manual was intended for regulated MS4 communities tasked with setting up a program, but does not address the role of volunteers. Read more...

Center Ramps Up on Stormwater BMP
Design



The Center is undertaking a major design effort this summer, through several grants from the Maryland Department of Natural Resources and other funders. The Center will be designing at least 20 different stormwater retrofits in multiple locations throughout Maryland, including various state parks and both public and private

lands in the City of Frederick, Anne Arundel County, Wicomico County and Howard County.

We're looking forward to this effort as a great chance to continue to practice what we preach, and achieve some real on-the-ground water quality improvements. This effort will allow the Center to work in several communities that we haven't before, and convincing people to adopt stormwater retrofits as part of their water quality improvement efforts becomes a lot easier when there is already a

good example to point to in their community. The retrofits will primarily be bioretention facilities, but there will be plenty of variety to keep things interesting. The projects also include dry swales and regenerative stormwater conveyance practices, some impervious cover removal, and a green roof. **Read more...**

More About the Center for Watershed Protection

Join our association
Latest blog on gray and green infrastructure
Join the 330+ members of our Linkedin group
Watershed fun on Facebook
Online watershed research



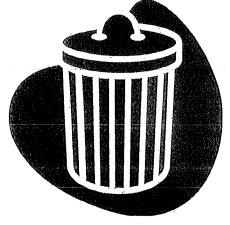
Center for Watershed Protection | 3290 North Ridge Road, Ste 290 | Ellicott City | MD | 21043





LOUSEHOLD LAZARDOUS LAZARD





FREE! TO ALL SAN JUAN COUNTY RESIDENTS ONLY!

(No Commercial Hazardous Waste Please!)

Two Sites:

San Juan County Facility

Administration Parking Lot 100 South Oliver Drive Aztec, NM American Plaza Parking Lot

1001 West Broadway

DO YOU HAVE OLD PAINT, MOTOR OIL, WEED KILLERS AND OTHER HAZARDOUS ITEMS THAT YOU WANT TO GET RID OF?

WE CAN ACCEPT:

Antifreeze, auto fluids, gas, brake fluid, motor oil, batteries, dry cleaning fluid, glue, household cleaners, fertilizer, insecticides, weed killers, aerosols, paints, stains, artist paints & cleaners, chemistry sets, wood paint, enamel paints, and varnishes.

WE CANNOT AGGEPT:

Biomedical or radioactive wastes, explosives, compressed gases, 55 gal. drums, business generated wastes, yard waste, ammunition or industrial waste, appliances (refrigerators), tires, E-waste (computers, cell phones, etc) – see Farmington Clean & Beautiful (599-1426) for information on disposal of E-waste.

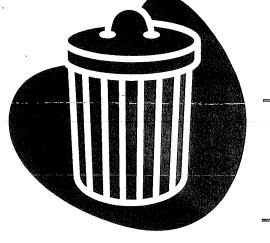
For Wore Information, Please Call:

325-6741 or 599-1284 Mon-fri. 8:00am - 400pm. NOTE: Paint in liquid form is considered a Household Hazardous Waste. Paint in dried-out solid form is NOT a Hazardous Waste and can be thrown out in the trash-

LOUSEIOLO STELLINGO DE LA CONTROL DE LA CONT

SATURDAY & May, 2nd 9:00 a.m. - 1:00 p.m.

COLLECTION DAY



FREE! TO ALL SAN JUAN COUNTY RESIDENTS ONLY!

(No Commercial Hazardous Waste Please!)

Two Sites:

San Juan County Facility

Administration Parking Lot 100 South Oliver Drive Aztec, NM **American Plaza Parking**

Lot 1001 West Broadway Farmington, NM

DO YOU HAVE OLD PAINT, MOTOR OIL, WEED KILLERS AND OTHER HAZARDOUS ITEMS THAT YOU WANT TO GET RID OF?

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BIE CANNOT AGGERT:

Biomedical or radioactive wastes, explosives, compressed gases, 55 gal. drums, business generated wastes, yard waste, ammunition or industrial waste, appliances (refrigerators), tires, E-waste (computers, cell phones, etc) – see Farmington Clean & Beautiful (599-1426) for information on disposal of E-waste.

For More Information, Please Call:

325-6741 or 599-1284 Mon-Fri 8:00am:400am NOTE: Paint in liquid form is considered a Household Hazardous Waste. Paint in dried-out solid form is NOT a Hazardous Waste and can be thrown out in the trash

2014 San Juan County Fair

San Juan County Fair attendance increases - Joni Kelsey

Billy Huish, San Juan County Fairboard Director, said "The San Juan County Fair attendance was up close to 2% this year. It may have had to do with moving the fair dates back one week so the fair didn't coincide with the Connie Mack World Series."

Despite rainy weather, evening attendance was very busy. The turn-out for the Susie McEntire concert was incredible.

Revenues for the fair were down a little bit but could be attributed to the Fairboard giving free entrance to seniors and special needs groups. One of the options for free attendance was a food drive for the Farmington ECHO food bank. ECHO received a total of 1,260 pounds of food which will help provide local families with over 1,600 meals. Amy Werner with ECHO, Inc. stated, "That's a huge impact and we appreciate all the hard work. Your help is vitally needed and deeply appreciated. We hope that you will continue to support our

San Juan County
Communications Authority

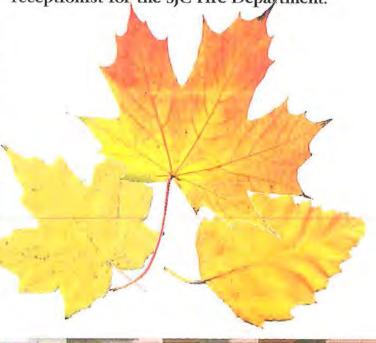
Melody Buser, 911 Call-Taker, mans the SJC Communications Authority booth at the Fair.

community effort to provide these programs for the less fortunate citizens of San Juan County."

Billy Huish went on to say "The San Juan County Fair couldn't have been so successful without the help of McGee Park and their staff. We really apprectiate their support and personnel."



Gretchen Schneider and her children Coulter and Kaitlyn greet fair-goers from the SJC Fire Department booth. Gretchen is the receptionist for the SJC Fire Department.







Fall Cleanup Week ~ 2014 October 13-16, 2014 During the week of October 6-9, 2014 residents can call the City' Public

Works Office (334-7660) to schedule curbside pickup of oversized objects for pickup the week of October 13-16, 2014.

PROHIBITED ITEMS



- No regular household garbage
- No hazardous waste such as paint, oil or hazardous chemicals
- No tires

- No concrete
- · No junk cars
- No Construction Materials (lumber, sheetrock, insulation, etc.)

OTHER RESTRICTIONS

- All items MUST be located on the CURB for pickup and bagged as much as possible. City employees will not pickup items in alleys or in yards must be on curb.
- Branches or limbs MUST be cut into 3 feet lengths and tied into a manageable bundle for pickup. If limbs are not in 3 feet lengths, they will not be picked up and it will be your responsibility to dispose of them.
- Certified Freon Removal: Refrigerators, freezers and other appliances containing
 Freon must have the compressor removed and must be affixed with a red tag from a
 certified technician indicating that all Freon has been removed.

DUMP CONVENIENCE CENTER

During Community Cleanup Week the Aztec Recycle Center will serve as a Dump Convenience Center and will accept junk and trash items that are generally required to be taken to the County Dump. This service is FREE during normal Recycle Center hours:



Tuesday through Thursday: 10:00 a.m. – 4:00 p.m. Friday & Saturday: 9:00 a.m. to 4:00 p.m. Sunday: Noon to 4:00 p.m.

The City would like to <u>THANK YOU</u> in advance for your participation in Community Cleanup Week. By working together we can make our city a beautiful place to live, work and play.

SPRING FLING ~ 2015 Community Cleanup Week April 20 - April 23

During the week of April 13-16 residents can call the City's Public Works Office (334-7660) to schedule curbside pickup of oversized objects for pickup the week of April 20-23.

PROHIBITED ITEMS



N

- No regular household garbage
- No hazardous waste such as paint, oil or hazardous chemicals
- No tires

- No concrete
- No junk cars
- No Construction Materials (lumber, sheetrock, insulation, etc.)

N

OTHER RESTRICTIONS

- All items MUST be located on the CURB for pickup and bagged as much as possible. City employees will not pickup items in alleys or in yards - must be on curb.
- Branches or limbs MUST be cut into 3 feet lengths and preferably tied or otherwise contained for pickup. If limbs are not in 3 feet lengths, they will not be picked up and it will be your responsibility to dispose of them.
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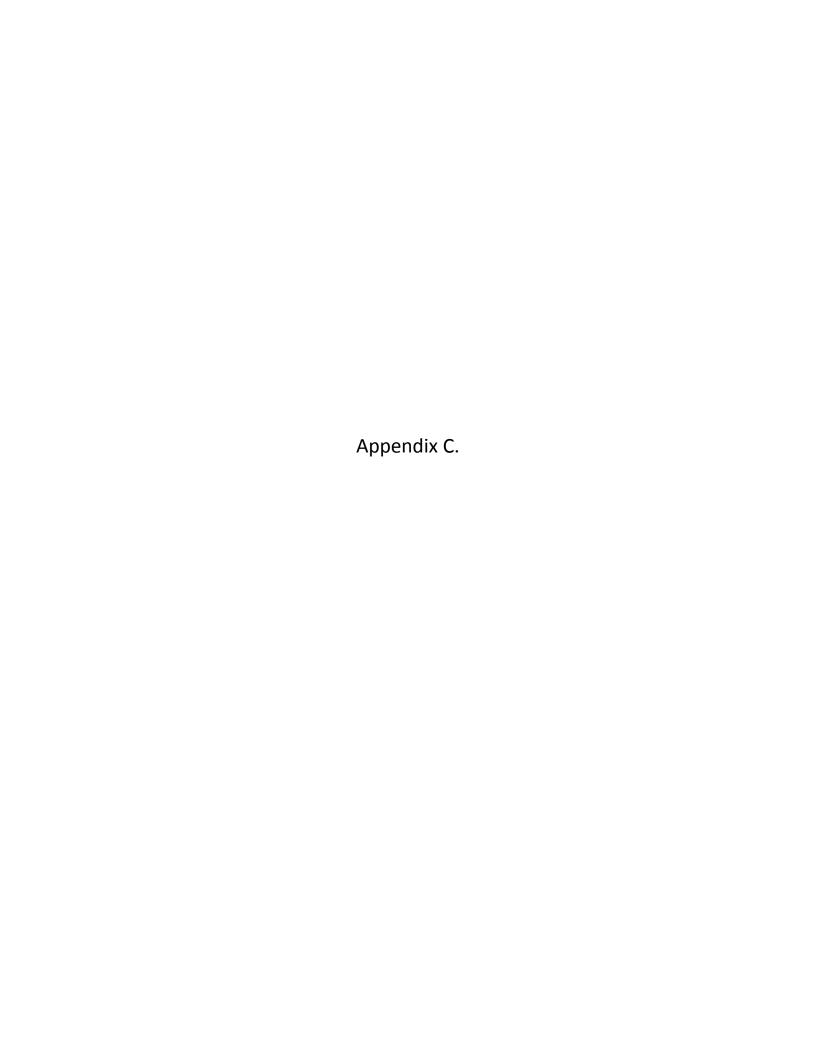


Tuesday through Thursday: 10:00 a.m. - 4:00 p.m. Friday & Saturday: 9:00 a.m. to 4:00 p.m. Sunday: Noon to 4:00 p.m.

LIMB RECYCLING

Branches or limbs MUST be cut into 3 feet lengths and preferably tied or otherwise contained for pickup or may be dropped off at the Recycle Center where MULCH is available for pickup at no charge during the week- Monday - Thursday, April 10 am to 4 pm. If timbs are not in 3 feet lengths they will not be picked up and it will be your responsibility to dispose of them. Mulch is available throughout the year, at no charge, at the Recycle Center.

The City would like to THANK YOU in advance for your participation in Community Cleanup Week. By working together we can make our city a beautiful place to live, work and play.



Storm Water Moni	toring Form		Animas Environ	mental Services,LLC			
Wet Weather and	_			animasenvironmental.com			
***To be completed quart		WPPP		I-2281 Fax (505) 324-2022			
D							
	luarterly Monitoring]	Project No.: Date:	<i>a</i> l., 1			
Client: San Juan Co Location: Outfall #10		***	Time:	<u>8/13/14</u> 			
Inspector: S. Lynn, S.		· · · · · · · · · · · · · · · · · · ·	Weather:	partly cloudy			
Inspector's Title: Project	Manager		Air Temperature:	7401			
,	<u> </u>		Date of last rainfall:	8/3/14			
	1		t of Last Rainfall (in.):	0.45" for 8/13/14			
OUTFALL	_	Storm Water	Recent	Notes			
Location:	Condition	Accumulation? (Y/N)	Spill (Y/N)	& Actions Taken			
Outfall #10	Good	У	\mathcal{N}	None			

1. Is there visible standing	water at outfall locs	ation? If no, go to nevt gu	estion				
_	water at outlan loce	ation: If no, go to next qu	estion.				
Check all that apply:	BA code	Ctains					
Colored Water	Murky	Stains					
Odor	Floating Objects	**************************************	fference in Plant Life				
Oily Sheen	Sludge Present	Comments/N	Comments/Notes: Mostlyclean water, but Slight hownish				
Clear Water	Suds	Sloght hon	warsh				
		<i>0</i>					
2. If no visible standing wat	er at outfall location	n check all that apply:		***************************************			
Sludge Present	Notable Difference						
Stains	L		l-4				
Land Statio		Comments/N	iotes:				
				Market Control of the			
	·						
3. Describe any storm water	er flows and estimate	te flow rate: Approxima	tely 10 cfs	The three Process and the Control of			
		.,	0				
4. Describe storm water sa	mples collected, if	any: Brownish color	- Ivery labt thous	rh)			
			0.0				
5. Describe any corrective a	actions to be taken	· None					
o. Describe any corrective t	actions to be taken	. / • • • • • • • • • • • • • • • • • •					
Additional Notes and Wa			6 1				
Temp: 22.67°c	DO: 8.02 mg/L	pH: 8,36	Cond: 0.546 ms/cm	ORP: -121.5			
7. Next Inspection Schedule	ed for: TBD						

Storm Water Mo Wet Weather and ***To be completed qua	d Sampling		http://www.	mental Services,LLC animasenvironmental.com -2281 Fax (505) 324-2022
Client: San Juan Location: Outfall # Inspector: S.lynn,	Quarterly Monitoring County II S. Glasses ect Mgr		Project No.: Date: Time: Weather: Air Temperature: Date of last rainfall: t of-Last Rainfall (in.):	8/13/14 13:27 lightly raming. 720+ 8/3/14 0.45 inches for 8/13/14
OUTFALL		Storm Water	Recent	Notes
Location:	Condition	Accumulation? (Y/N)	Spill (Y/N)	& Actions Taken
Out-fall # 11	Good	У	N	None
Check all that apply: Colored Water Odor Oily Sheen Clear Water 2. If no visible standing was Sludge Present Stains	Murky Floating Objects Sludge Present Suds vater at outfall location Notable Differen	Comments/Non, check all that apply:	otes: Munky - lots o	J sedment flowing
4. Describe storm water s	samples collected, if unt life abong 1	any: Brownish colo		Sco to rations that
6. Additional Notes and V	Vater Quality Data: DO: 7.62 ^{mg} /μ	pH: 8.05	Cond: 0.621 ms/cm	ORP: 67.1
7. Next Inspection Sched	uled for: 781)			

Storm Water Mon	itoring Form		Animas Environ	mental Services,LLC
Wet Weather and	Sampling		http://www.	animasenvironmental.com
***To be completed quar		WPPP	J	-2281 Fax (505) 324-2022
Project: Storm Water 0	Quarterly Monitoring]	Project No.:	
Client: San Juan (ovuty.		Date:	8)13/14
- Daltag -	<i>-</i>		Time:	/3:45
Inspector: S. Lynn, S. Inspector's Title: Pale	Glasses		Weather:	mostly cloudy
inspector's rue. Projec	t Mgr	***************************************	Air Temperature: Date of last rainfall:	72° Ř 8 / 3 / 14
		Amour	nt of Last Rainfall (in.):	0.45" for 8/13/14
OUTFALL		Storm Water	Recent	Notes
Location:	Condition	Accumulation? (Y/N)	Spill (Y/N)	& Actions Taken
Outfull #12	Fair	У	N	See Below
1. Is there visible standing	water at outfall loca	ation? If no, go to next qu	uestion.	
Check all that apply:				
Colored Water	Murky	Stains		
Odor	Floating Objects	Notable D	ifference in Plant Life	
Oily Sheen	Sludge Present	Comments/N	Notes: Tank	u de a
Clear Water	Suds	Comments/N	Notes: Farry clear i	vacer
74 Ciour Huisi	Suus			
If no visible standing wa	uter at outfall locatio	n check all that apply		
Sludge Present	Notable Differen	• • •		
Stains	recasie billeren		1.1.	
Stanis		Comments/N	lotes:	
0 D : it			. 1	
Describe any storm wat	er flows and estima	te flow rate: Approxima	utely 20 cts	
Describe storm water sa	amples collected if	anv: Mostl al.	Stample	
Describe storm water sa	ampico concotca, ii	any. Most ly clear	Jany	10.00
5. Describe any corrective	actions to be taken	: Stream banks a	are showing srying	of ension
▼			0 0	0
			d-American Control of the Control of	
6. Additional Notes and W	ater Quality Data:			
Temp: /8,58°C	DO: 8.20 mg	pH: <i>8.(1</i>	Cond: 0,674 mg/sm	ORP: -107.0
			ms/cm	
7. Next Inspection Schedu	led for: TBD			

/19/2015	STC/COA Stormwater
	Outfall Dry Weather Inspector
Armre a	uttal # 6 8:53 am
	Currently dry. No stammy, some trash. Strykt build-up of sand at outtall from
	culvert. Sirght erosom downstream, but in good condition at outfall
	and uphild of culvert.
mive	Outfall #5 9:05 am
	La Plata River flowing high nite Saw Juan Kiver, which is also very high.
	lots of vegetation at how that accesses outfull. Ducks present, vegetation appears
	healthy. Water is brown (10ts of sedement), but no on sudo staming.
Arrive	aut fall # 1 9:35 a.m.
	Could not guste access outfall location - electric fence bift road and and
	path to outfall. Observed upstream of sulfall, Ivrogation dotal is flowing,
	but not very fast. Vegetatom appears healthy. Slightly cloudy water, some
- 3	algea. No observed stamping or only sheen I suds
Arrive	Oct fall #2 10:22
	little ditals has clear water in and it, but not running very past. Dre
	Section observed was ~ I ft deep. lots of vegetation, all appear healthy. No
	steps of starring / suds / on.
Arri	
	Could not get mean outfall - very overgrown and lots of downtall (possits Noty of
	Snakes in brush). But appeared that some water was present in ditale-
-	likely bretetill from nearby San Juan River. Vegetution appears healthy.
Arri	NE OUR FALL # 4 11:00
	Lots of reget atom along route to out fall. Talked to veryblor of Many
	Fisher - said better place to collect stormwater (and not virigiting ditch
	Water) is at elbowin road just at bottom y will. Culvert goes under
	road - partially AM col with scalinat. Is captures runoth from mean.
	Currently dry. No such starting / trach.
Arrive 1	AES @ 13:00, Hoghlander = 170826

Rite in the Rain.

SSC/COA Outfalls - Dry Weather Inspections Depart AES @ 8:45. Ford 2011 (108). Mileage = 72860. Arrive SJC office @ 9:10. Talk with TJ Archards and Laurie Martinez Depart SJC office @ 10:02. Arrive Outfall #11 @ 10:10. Flow from ditch ~ 20 cts. Good how, regitation appears wattly. No suds or show for in flow base flow. No major erosion - rock walls working well. No trash present. Arrive outfall # 12 @ 10:40 Flow from ditch ~ 15 cfs. Water is mostly dear, no suds or only sheen. No signs of Stammy. Vegetatine appears healthy. No trash. Arrive outfall # 10 @ 10:48 Deep but very slow flow from dtheh, ~ 5 cfs. Vegitarkun ypeans healtry. No stynsy Staining or suds/olly sheen. No trash. Armye Outfall #9 @ 11:04 Vegetatrian very overgrown - could not see or access large culved. Highly wooded just below large culvert. Smaller upper culvert observed. No flow from eather one No styns of staring or trash. (Aztec Auto Salvage SWPPP respection 11:10-12:10) Arrove Outfall & 8 @ 12:30. DACK & flowing, some water backed up from RNer. Flow slow ~ 5 CFs?. No styre of Starning or off sheen / suds. Vegetatran appears healthy. Arrive Outfall # 7 @ 12:55. Met wife Cam and showed me easier access to cruck. Shallow flow ~ 2 cfs Witer is clear, no signs of Starring or olly sher / suchs. Vegetation healthy, of cottonwood seeds nearby. (Rusch Lunch = 0.25 hrs) Arrive AES @ 13:40, Mileage = 72900



CH2M HILL
Farmington Project
816 South Cartton Ave
Farmington, NM 87401
Tel 505.325-6953
Fax 506.684.2650



August 29, 2014

Animas Environmental 624 E. Comanche Farmington, NM 87401

Attention:

Ms. Stephanie Lynn

Dear Stephanie,

Please find enclosed the results for the samples submitted August 13, 2014, as well as an invoice for these analyses.

Quality Control parameters were acceptable for all analyses unless otherwise noted below. If you need more information or have any questions, please call us at 505/325-6953.

Sincerely,

Monica Peterson
Laboratory Director

cc: File

Animas Environmental

-2-

August 29, 2014

SAMPLE DATA

SAMPLE LOCATION	SAMPLE LAB NO.	DATE AND TIME SAMPLED
SJC Outfall #11	2014c-0352	August 13, 2014 @ 1330
SJC Outfall #12	2014c-0353	August 13, 2014 @ 1350
SJC Outfall #10	2014c-0354	August 13, 2014 @ 1410

Samples received August 13, 2014 @ 1452

RESULTS, E. coll

SAMPLE LOCATION	E. colt RESULTS	ANALYSIS DATE & TIME	ANALYST
SJC Outfall #11	148 MPN/100 mL	August 13, 2014 @ 1524	MB
SJC Outfall #12	187 MPN/100 mL	August 13, 2014 @ 1524	MB
SJC Outfall #10	19,863 MPN/100 mL	August 13, 2014 @ 1524	MB

OC Notes

Method of Analysis
E. coll - Standard Methods 9223B - 2004

Circuit Name Authors Edution Nutral Cerrice Sampler - Printed Name and phone number(s) Stephault Edution Stephault E	Sampler - Printed Name and phone number(s) Comaucha Eurinamba. NA 37701 Type Staphause Eugan (505) 547-2.		FARMINGTON ENVIRONMENTAL LAB CH2M HILL OMI
17 17 17 17 17 17 17 17	Community NA 87701. Type Stephante Lynn (505) 524-2. Doalion Time Comp. Grab Lab ID # Pres. Containers # 11 8 /13 /14 13:30 V 2019 C - 0352 No. 8 Type of Containers # 12 8 /13 /14 13:50 V 2019 C - 0352 No. 20 on ice 1 @ 21 op on ice 1 @ 22 op on ice	Services	r - Printed Name and phone number(s)
Type Comp. Grab Lab ID # Pres. No. & Type of Containers	Type of Comp. Comp. Grab Lab ID # Pres. No. & Type of Containers 1/1/2003 0800 24 hr.	NA 87701.	Stophante Lyon (505) 524-2281
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444 # 12 8/13/14 17:10 V 2014 -0353 112.50, 10 120 p	# 12 8/13/14 13:50 V 2014/2 -0353 Hazszo, 10 1200 # 10 8/13/14 17:10 V 2014/2 -0354 Hazszo, 10 1200	13:30 ~ 2019	- 0352 No. 50. 10120 C
46-11 # 10 8/13/14 14:10 V 2014 -0354 Nus. 510.3 100 120 p	9/13/14 19:10 V 2014 -0354 Mu,5:03 100 120 p	13:50	2 1 0 1 0 3 m/l
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CH2M Hit.t. Fermington Project 615 South Carlton Ave Farmington, NM 87401 Tel 505.325-9953 Fex 505.564.2680



October 22, 2014

Animas Environmental 624 E. Comanche Farmington, NM 87401

Attention:

Ms. Stephanie Hinds

Dear Stephanie,

Please find enclosed the results for the samples submitted October 9, 2014, as well as an invoice for these analyses.

Quality Control parameters were acceptable for all analyses unless otherwise noted below. If you need more information or have any questions, please call us at 505/325-6953.

Sincerely,

Monica Peterson
Laboratory Director

cc: File

Animas Environmental

-2-

October 22, 2014

SAMPLE DATA

SAMPLE LOCATION	SAMPLE LAB NO.	DATE AND TIME SAMPLED
SJC Outfall #6	2014c-0500	October 9, 2014 @ 0815
SJC Outfall #5	2014c-0501	October 9, 2014 @ 0830
COF Outfall #11	2014c-0502	October 9, 2014 @ 0850

Samples received October 9, 2014 @ 1006

RESULTS, E. coli

SAMPLE LOCATION	E. coli RESULTS	ANALYSIS DATE & TIME	ANALYST
SJC Outfall #6	3,441 MPN/100 mL	October 9, 2014 @ 1100	TKT
SJC Outfall #5	12,997 MPN/100 mL	October 9, 2014 @ 1100	TKT
COF Outfall #11	261.3 MPN/100 mL	October 9, 2014 @ 1100	TKT

OC Notes NA

Method of Analysis
E. coli – Standard Methods 9223B – 2004

Printed Name and phone Stephanie Hind. Stephanie Hind. OSO on ice on ice on ice of SO on ice o	1395 S. Lake Street Farmington, NM 87401 Client Name: HAIMES ENVIORME		J	XIAIN O	PF CUS	CHAIN OF CUSTODY			
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W. Pinan St. Farmington, N/A 87401 Stephanie Atheres ocation Date Time $\frac{1}{1000}$ </td <td>ļ</td> <td>ental Serv</td> <td>ices</td> <td> - </td> <td>!</td> <td>Sampler - Printed No.</td> <td>ame and phon</td> <td>te number(s)</td> <td></td>	ļ	ental Serv	ices	 - 	!	Sampler - Printed No.	ame and phon	te number(s)	
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#6 10/9/14 0835 × 3014A-0500 mice #5 10/9/14 0830 × 3014A-0500 mice # 11 10/9/14 0850 × 3014A-0500 mice	Sample Location	Date	Time	Comp.	Grab	Lab ID #	Pips		Analysis
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111.101. 111.		N.V			* \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	fed			



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

September 02, 2014

Stephanie Lynn Animas Environmental Services 624 East Comanche Farmington, NM 87401

TEL: (505) 564-2281 FAX (505) 324-2022

RE: San Juan County Outfall Sampling OrderNo.: 1408717

Dear Stephanie Lynn:

Hall Environmental Analysis Laboratory received 3 sample(s) on 8/14/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order **1408717**Date Reported: **9/2/2014**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services Client Sample ID: Outfall #11

Project:San Juan County Outfall SamplingCollection Date: 8/13/2014 1:30:00 PMLab ID:1408717-001Matrix: AQUEOUSReceived Date: 8/14/2014 8:15:00 AM

Analyses	Result	RL Qı	ual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analyst	: JRR
Nitrate+Nitrite as N	ND	1.0	mg/L	5 8/18/2014 5:17:09 PM	R20647
EPA METHOD 200.7: METALS				Analyst	:: JLF
Aluminum	23	2.0	* mg/L	100 8/26/2014 11:34:33 AM	I 14930
Iron	29	2.0	* mg/L	100 8/26/2014 11:34:33 AM	14930
Zinc	0.28	0.010	mg/L	1 8/26/2014 11:29:41 AM	14930
EPA 200.8: METALS				Analyst	: DBD
Arsenic	0.0068	0.0010	mg/L	1 8/25/2014 3:14:54 PM	14930
Cadmium	ND	0.0010	mg/L	1 8/25/2014 3:14:54 PM	14930
Lead	0.045	0.0010	* mg/L	1 8/25/2014 3:14:54 PM	14930
Nickel	0.015	0.0010	mg/L	1 8/25/2014 3:14:54 PM	14930
Copper	0.037	0.0010	mg/L	1 8/25/2014 3:14:54 PM	14930
Selenium	ND	0.0010	mg/L	1 8/25/2014 3:14:54 PM	14930
EPA METHOD 245.1: MERCURY				Analyst	:: JLF
Mercury	ND	0.00020	mg/L	1 8/26/2014 1:55:05 PM	14944
EPA METHOD 1664A				Analyst	:: MRA
N-Hexane Extractable Material	ND	5.3	mg/L	1 8/19/2014 12:00:00 PM	14778
Silica Gel Treated N-Hexane Extractable Material	ND	5.3	mg/L	1 8/19/2014 12:00:00 PM	l 14778
SM 4500 NH3: AMMONIA				Analyst	: TMG
Nitrogen, Ammonia	ND	1.0	mg/L	1 8/22/2014 10:50:00 AM	R20744
SM 4500 NORG C: TKN				Analyst	:: TMG
Nitrogen, Kjeldahl, Total	1.1	1.0	mg/L	1 8/20/2014 1:25:00 PM	14837
SM 2540D: TSS				Analyst	: KS
Suspended Solids	1500	8.0	mg/L	1 8/15/2014 5:45:00 PM	14791

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 1 of 12

- $P \hspace{0.5cm} \hbox{Sample pH greater than 2.} \\$
- RL Reporting Detection Limit

Analytical ReportLab Order **1408717**

Date Reported: 9/2/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services Client Sample ID: Outfall #12

Project:San Juan County Outfall SamplingCollection Date: 8/13/2014 1:50:00 PMLab ID:1408717-002Matrix: AQUEOUSReceived Date: 8/14/2014 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	:: JRR
Nitrate+Nitrite as N	ND	1.0		mg/L	5	8/18/2014 5:29:33 PM	R20647
EPA METHOD 200.7: METALS						Analyst	:: JLF
Aluminum	11	0.40	*	mg/L	20	8/26/2014 11:36:16 AM	I 14930
Iron	12	0.40	*	mg/L	20	8/26/2014 11:36:16 AM	14930
Zinc	0.19	0.010		mg/L	1	8/26/2014 11:31:35 AM	l 14930
EPA 200.8: METALS						Analyst	: DBD
Arsenic	0.0038	0.0010		mg/L	1	8/25/2014 3:24:56 PM	14930
Cadmium	ND	0.0010		mg/L	1	8/25/2014 3:24:56 PM	14930
Lead	0.027	0.0010	*	mg/L	1	8/25/2014 3:24:56 PM	14930
Nickel	0.0053	0.0010		mg/L	1	8/25/2014 3:24:56 PM	14930
Copper	0.024	0.0010		mg/L	1	8/25/2014 3:24:56 PM	14930
Selenium	ND	0.0010		mg/L	1	8/25/2014 3:24:56 PM	14930
EPA METHOD 245.1: MERCURY						Analyst	: JLF
Mercury	ND	0.00020		mg/L	1	8/26/2014 1:56:54 PM	14944
EPA METHOD 1664A						Analyst	: MRA
N-Hexane Extractable Material	ND	5.3		mg/L	1	8/19/2014 12:00:00 PM	14778
Silica Gel Treated N-Hexane Extractable Material	ND	5.3		mg/L	1	8/19/2014 12:00:00 PM	l 14778
SM 4500 NH3: AMMONIA						Analyst	:: TMG
Nitrogen, Ammonia	ND	1.0		mg/L	1	8/22/2014 10:50:00 AM	R20744
SM 4500 NORG C: TKN						Analyst	:: TMG
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	8/20/2014 1:25:00 PM	14837
SM 2540D: TSS						Analyst	:: KS
Suspended Solids	650	8.0		mg/L	1	8/15/2014 5:45:00 PM	14791

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 2 of 12

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Analytical ReportLab Order **1408717**

Date Reported: 9/2/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services Client Sample ID: Outfall #10

Project:San Juan County Outfall SamplingCollection Date: 8/13/2014 2:10:00 PMLab ID:1408717-003Matrix: AQUEOUSReceived Date: 8/14/2014 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: JRR
Nitrate+Nitrite as N	ND	1.0		mg/L	5	8/18/2014 5:41:57 PM	R20647
EPA METHOD 200.7: METALS						Analyst	: JLF
Aluminum	2.0	0.10	*	mg/L	5	8/28/2014 2:50:39 PM	14981
Iron	1.4	0.10	*	mg/L	5	8/28/2014 2:50:39 PM	14981
Zinc	0.021	0.010		mg/L	1	8/28/2014 2:10:58 PM	14981
EPA 200.8: METALS						Analyst	DBD
Arsenic	ND	0.0010		mg/L	1	8/28/2014 11:54:09 AM	14981
Cadmium	ND	0.0010		mg/L	1	8/28/2014 11:54:09 AM	14981
Lead	0.0036	0.0010		mg/L	1	8/28/2014 11:54:09 AM	14981
Nickel	0.0017	0.0010		mg/L	1	8/28/2014 11:54:09 AM	14981
Copper	0.0043	0.0010		mg/L	1	8/28/2014 11:54:09 AM	14981
Selenium	ND	0.0010		mg/L	1	8/28/2014 11:54:09 AM	14981
EPA METHOD 245.1: MERCURY						Analyst	: MMD
Mercury	ND	0.00020		mg/L	1	8/28/2014 7:47:26 AM	14984
EPA METHOD 1664A						Analyst	MRA
N-Hexane Extractable Material	ND	5.5		mg/L	1	8/19/2014 12:00:00 PM	14778
Silica Gel Treated N-Hexane Extractable Material	ND	5.5		mg/L	1	8/19/2014 12:00:00 PM	14778
SM 4500 NH3: AMMONIA						Analyst	TMG
Nitrogen, Ammonia	ND	1.0		mg/L	1	8/27/2014 1:26:00 PM	R20841
SM 4500 NORG C: TKN						Analyst	: TMG
Nitrogen, Kjeldahl, Total	1.1	1.0		mg/L	1	8/20/2014 1:25:00 PM	14837
SM 2540D: TSS						Analyst	: KS
Suspended Solids	57	4.0		mg/L	1	8/15/2014 5:45:00 PM	14791

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 - at the Reporting Limit Page 3 of 12
- P Sample pH greater than 2.
- RL Reporting Detection Limit



YOUR LAB OF CHOICE

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

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

August 26, 2014

Hall Environmental Analysis Laborat 4901 Hawkins NE Albuquerque, NM 87109

ESC Sample # : L716774-01

Date Received

19, 2014 August

Site ID :

Description Sample ID

1408717-001D OUTFALL 11

Project # :

Collected By : Collection Date :

08/13/14 13:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
COD	400	10.	mg/l	410.4	08/26/14	1
Phosphorus, Total	0.56	0.10	mg/l	365.4	08/26/14	1

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

Note:

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

Reported: 08/26/14 16:55 Printed: 08/26/14 16:55



YOUR TAB OF CHOICE

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

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

August 26, 2014

Hall Environmental Analysis Laborat

4901 Hawkins NE

Albuquerque, NM 87109

ESC Sample # : L716774-02

Date Received :

Description

August 19, 2014

Site ID :

Sample ID

1408717-002D OUTFALL 12

Project # :

Collected By

Collection Date : 08/13/14 13:50

Parameter	Result	Det. Limit	Units	Method	Date Dil.
COD	19.	10.	mg/l	410.4	08/26/14 1
Phosphorus, Total	0.22	0.10	mg/1	365.4	08/26/14 1

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

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

Reported: 08/26/14 16:55 Printed: 08/26/14 16:55



YOUR LAB OF CHOICE

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

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

August 26, 2014

Hall Environmental Analysis Laborat

4901 Hawkins NE Albuquerque, NM 87109

ESC Sample # : L716774-03

Date Received : Description

19, 2014 August

Site ID :

Sample ID

1408717-003D OUTFALL 10

Project # :

Collected By : Collection Date :

08/13/14 14:10

Parameter	Result	Det. Limit	Units	Method	Date Dil.
COD	20.	10.	mg/l	410.4	08/26/14 1
Phosphorus, Total	BDL	0.10	mg/l	365.4	08/26/14 1

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

Note:

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

Reported: 08/26/14 16:55 Printed: 08/26/14 16:55



YOUR LAB OF CHOICE

Hall Environmental Analysis Laboratory

4901 Hawkins NE

Albuquerque, NM 87109

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

Tax I.D. 62-0814289

Est. 1970

Quality Assurance Report Level II

L716774

August 26, 2014

		Labora	tory Blan	k .				
Analyte	Result	Units		Rec	Limit		Batch	Date Analyzed
COD (1) 127 127 127 127 127 127 127 127 127 127	< 10	mg/1	ymini i	[BATT S			WG739290	08/26/14 13:05
Phosphorus, Total	< .1	mg/l					WG739283	08/26/14 14:46
			plicate				D = E - C =	
Analyte	Units	Result	Duplicat	e RPD	Limit	<u>. </u>	Ref Samp) Batch
COD COD	mg/l mg/l	650. 0.0	650. 0.0	0.0	5 5		L716766- L717033-	
Phosphorus, Total Phosphorus, Total	mg/l mg/l	0.260 0.200	0.260 0.210	0.0 4.88	20	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	L716802- L716822-	
		Laborator	Z Control	Sample				
Analyte	Units	Known Val		Result	% Rec		Limit	Batch
COD [24] [24] [25] [25] [25] [25] [25]	mg/l	183		96.	107.	- 5-85	90-110	WG739290
Phosphorus, Total	mg/l	11	1	.02	102.		90-110	WG739283
		Laboratory Cont	rol Sampl	e Duplicat	te:			•
Analyte	Units	Result Res		Rec	Limit	RPD	Lir	nit Batch
COD Spring the second of the s	mg/l	190. 190	5.0 1001	04.	90-110	3.11	5	WG7 39290
		Mati	ix Spike	4				
Analyte	Units	MS Res Re	f Res	ŤV % I	Rec Lim	it	Ref Samp	Batch
CODE SULTE DE LE COME DE LA COME	mg/l	446. 42	.0	00 100	o. 90÷	110	L716766-	WG739290
Phosphorus, Total	mg/l	2.98 0.	340 2	2.5 100	0. 90-	110	L716821-	01 WG739283
		Matrix S	nike Dubli	cate				
Analyte	Units	MSD Ref	%Rec		mit RPD	Limit	t Ref Samp	Batch
	mg/l	458. 446.	104.	90	-110 2.65	5.	L716766-	02 WG739290
Phosphorus, Total	mg/l	3.00 2.98	106.	90-	-110 0.66	9 20	L716821-	01 WG739283

Batch number /Run number / Sample number cross reference

WG739290: R2981291: L716774-01 02 03 WG739283: R2981313: L716774-01 02 03

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

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

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408717**

02-Sep-14

Client: Animas Environmental Services
Project: San Juan County Outfall Sampling

Sample ID MB-14778 SampType: MBLK TestCode: EPA Method 1664A

Client ID: PBW Batch ID: 14778 RunNo: 20666

Prep Date: **8/15/2014** Analysis Date: **8/19/2014** SeqNo: **601350** Units: **mg/L**

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

N-Hexane Extractable Material ND 5.0 Silica Gel Treated N-Hexane Extrac ND 5.0

Sample ID LCS-14778 SampType: LCS TestCode: EPA Method 1664A

Client ID: LCSW Batch ID: 14778 RunNo: 20666

Prep Date: 8/15/2014 Analysis Date: 8/19/2014 SeqNo: 601351 Units: mg/L

LowLimit Analyte Result **PQL** SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual N-Hexane Extractable Material 33 5.0 40.00 0 81.3 78 114 17 20.00 0 83.5 64 Silica Gel Treated N-Hexane Extrac 5.0 132

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

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Client:

Hall Environmental Analysis Laboratory, Inc.

Animas Environmental Services

WO#: **1408717**

02-Sep-14

Project: San Jua	n County Ou	tfall Sa	mpling							
Sample ID MB-14930	SampTy	pe: ME	BLK	Tes	tCode: El	PA Method	200.7: Metals			
Client ID: PBW	Batch	930	RunNo: 20802							
Prep Date: 8/25/2014	Analysis Da	ite: 8/	26/2014	5	SeqNo: 6	05257	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum	ND	0.020								
Iron	ND	0.020								
7:	ND	0.040								
Zinc	ND	0.010								
Sample ID LCS-14930	SampTy		s	Tes	tCode: EI	PA Method	200.7: Metals			
	SampTy				tCode: El		200.7: Metals			
Sample ID LCS-14930	SampTy	pe: LC	930	F		0802	200.7: Metals Units: mg/L			
Sample ID LCS-14930 Client ID: LCSW	SampTy Batch	pe: LC	930 26/2014	F	RunNo: 2	0802		%RPD	RPDLimit	Qual
Sample ID LCS-14930 Client ID: LCSW Prep Date: 8/25/2014	SampTy Batch Analysis Da	pe: LC ID: 14 9 ate: 8 /	930 26/2014	F	RunNo: 26 SeqNo: 66	0802 05258	Units: mg/L		RPDLimit	Qual
Sample ID LCS-14930 Client ID: LCSW Prep Date: 8/25/2014 Analyte	SampTy Batch Analysis Da Result	pe: LC ID: 14 ate: 8 /	930 26/2014 SPK value	F S SPK Ref Val	RunNo: 20 SeqNo: 60 %REC	0802 05258 LowLimit	Units: mg/L HighLimit		RPDLimit	Qual

Sample ID MB-14981	SampT	mpType: MBLK TestCode: EPA Method 2				200.7: Metals				
Client ID: PBW	Batch	ID: 149	981	R	tunNo: 2	0867				
Prep Date: 8/27/2014	Analysis D	ate: 8/	28/2014	S	eqNo: 6	07296	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum	ND	0.020								
Iron	ND	0.020								
Zinc	ND	0.010								

Sample ID LCS-14981	SampT	ype: LC	S	Test	tCode: El	PA Method	200.7: Metals	6		
Client ID: LCSW	Batch	1D: 14 9	981	R	tunNo: 20	0867				
Prep Date: 8/27/2014	Analysis D	ate: 8/	28/2014	S	eqNo: 60	07297	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
		. ~-		O	,		9	,		
Aluminum	0.49	0.020	0.5000	0	97.0	85	115			
Aluminum Iron				0 0			3	,,,,,		

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1408717**

02-Sep-14

Client: Animas Environmental Services
Project: San Juan County Outfall Sampling

Sample ID LL	LCS-14930	SampType: LCSLL TestCode: EPA 200.8:					/letals				
Client ID: Ba	tchQC	Batch ID: 14930 RunNo: 207					20781				
Prep Date: 8	/25/2014	Analysis I	Date: 8/	25/2014	5	SeqNo: 6	04868	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic		0.024	0.0010	0.02500	0	96.2	85	115			
Cadmium		0.024	0.0010	0.02500	0	97.0	85	115			
Lead		0.024	0.0010	0.02500	0	96.7	85	115			
Nickel		0.023	0.0010	0.02500	0	93.1	85	115			
Copper		0.023	0.0010	0.02500	0	93.7	85	115			
Selenium		0.024	0.0010	0.02500	0	94.5	85	115			
Sample ID ME	B-14930	Samp	Туре: МЕ	BLK	Tes	tCode: E	PA 200.8: N	/letals			
Client ID: PE	SW	Bato	h ID: 14	930	RunNo: 20781						
Prep Date: 8	/25/2014	Analysis I	Date: 8/	25/2014	5	SeqNo: 6	04871	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic		ND	0.0010								
Cadmium		ND	0.0010								
Lead		ND	0.0010								
Nickel		ND	0.0010								
Copper		ND	0.0010								
Selenium		ND	0.0010								
Sample ID LL	LCS-14981	Samp	Type: LC	SLL	Tes	tCode: E	PA 200.8: N	/letals			
Client ID: Ba	tchQC	Bato	h ID: 14	981	F	RunNo: 2	20877				
Prep Date: 8	/27/2014	Analysis I	Date: 8/	28/2014	5	SeqNo: 6	607492	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.025	0.0010	0.02500	0	98.5	85	115			
Cadmium	0.025	0.0010	0.02500	0	99.2	85	115			
Lead	0.025	0.0010	0.02500	0	99.9	85	115			
Nickel	0.025	0.0010	0.02500	0	99.0	85	115			
Copper	0.025	0.0010	0.02500	0	98.6	85	115			
Selenium	0.024	0.0010	0.02500	0	96.8	85	115			
Sample ID MB-14981	O MB-14981 SampType: MBLK				tCode: El	PA 200.8: M	letals			

Sample ID N	/IB-14981	SampT	ype: MB	LK	Test	tCode: E	PA 200.8: M	letals				
Client ID: P	PBW	Batch	ID: 149	81	R	tunNo: 2	20877					
Prep Date:	8/27/2014	Analysis D	ate: 8/2	28/2014	S	eqNo: 6	607493	Units: mg/L				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Arsenic		ND	0.0010	•	•	<u> </u>	•	•		•		

Arsenic	ND	0.0010
Cadmium	ND	0.0010
Lead	ND	0.0010
Nickel	ND	0.0010

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1408717**

02-Sep-14

Client: Animas Environmental Services
Project: San Juan County Outfall Sampling

Sample ID MB-14981 SampType: MBLK TestCode: EPA 200.8: Metals

Client ID: PBW Batch ID: 14981 RunNo: 20877

Prep Date: **8/27/2014** Analysis Date: **8/28/2014** SeqNo: **607493** Units: **mg/L**

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Copper
 ND
 0.0010

 Selenium
 ND
 0.0010

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1408717**

02-Sep-14

Client: Animas Environmental Services
Project: San Juan County Outfall Sampling

Sample ID MB-14944 SampType: MBLK TestCode: EPA Method 245.1: Mercury

Client ID: PBW Batch ID: 14944 RunNo: 20808

Prep Date: 8/25/2014 Analysis Date: 8/26/2014 SeqNo: 605517 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Mercury ND 0.00020

Sample ID LCS-14944 SampType: LCS TestCode: EPA Method 245.1: Mercury

Client ID: LCSW Batch ID: 14944 RunNo: 20808

Prep Date: 8/25/2014 Analysis Date: 8/26/2014 SeqNo: 605518 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Mercury 0.0049 0.00020 0.005000 0 98.9 80 120

Sample ID MB-14984 SampType: MBLK TestCode: EPA Method 245.1: Mercury

Client ID: PBW Batch ID: 14984 RunNo: 20842

Prep Date: 8/27/2014 Analysis Date: 8/28/2014 SeqNo: 606610 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Mercury ND 0.00020

Sample ID LCS-14984 SampType: LCS TestCode: EPA Method 245.1: Mercury

Client ID: LCSW Batch ID: 14984 RunNo: 20842

Prep Date: 8/27/2014 Analysis Date: 8/28/2014 SeqNo: 606611 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Mercury 0.0049 0.00020 0.005000 0 98.5 80 120

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

Result

3.3

0.20

WO#: **1408717**

02-Sep-14

Client:		Animas Environmen									
Project:		San Juan County Ou	ittall S	ampling							
Sample ID	МВ	MB SampType: MBLK		TestCode: EPA Method 300.0: Anions							
Client ID:	PBW	Batch	ID: R2	20647	F	RunNo: 2	0647				
Prep Date:		Analysis D	ate: 8	/18/2014	9	SeqNo: 6	00891	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrate+Nitrite	as N	ND	0.20								
Sample ID	D LCS SampType: LCS TestCode: EPA Method 300.0: Anions										
Client ID:	LCSW	Batch	ID: R2	20647	F	RunNo: 2	0647				
Prep Date:		Analysis D	ate: 8	/18/2014	\$	SeqNo: 6	00892	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrate+Nitrite	as N	3.3	0.20	3.500	0	95.3	90	110			
Sample ID	ample ID MB SampType: MBLK		BLK	TestCode: EPA Method 300.0: Anions							
Client ID:	PBW	Batch	ID: R2	20647	F	RunNo: 2	0647				
Prep Date:		Analysis D	ate: 8	/18/2014	5	SeqNo: 6	00927	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrate+Nitrite	as N	ND	0.20								
Sample ID	nple ID LCS SampType: LCS		cs	TestCode: EPA Method 300.0: Anions							
Client ID:	Client ID: LCSW		Batch ID: R20647		RunNo: 20647						
Prep Date:		Analysis D	ate: 8	/18/2014	5	SeqNo: 6	00928	Units: mg/L			

SPK value SPK Ref Val

0

3.500

Qualifiers:

Analyte

Nitrate+Nitrite as N

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

%REC

93.7

LowLimit

90

HighLimit

110

- P Sample pH greater than 2.
- RL Reporting Detection Limit

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%RPD

RPDLimit

Qual

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408717**

02-Sep-14

Client:	Animas Environmental Services				
Project:	San Juan County Outfall Sampling				
Sample ID MB	SampType: MBLK	TestCode: SM 4500 NH3: Ammonia			
Client ID: PBW	Batch ID: R20744	RunNo: 20744			
Prep Date:	Analysis Date: 8/22/2014	SeqNo: 603633 Units: mg/	L		
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Ammonia	ND 1.0				
Sample ID LCS	SampType: LCS	TestCode: SM 4500 NH3: Ammonia			
Client ID: LCSW	Batch ID: R20744	RunNo: 20744			
Prep Date:	Analysis Date: 8/22/2014	SeqNo: 603634 Units: mg/	L		
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Ammonia	10 1.0 10.00	0 101 80 120			
Sample ID MB	SampType: MBLK	TestCode: SM 4500 NH3: Ammonia			
Client ID: PBW	Batch ID: R20841	RunNo: 20841			
Prep Date:	Analysis Date: 8/27/2014	SeqNo: 606587 Units: mg/	L		
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Ammonia	ND 1.0				
Sample ID LCS	SampType: LCS	TestCode: SM 4500 NH3: Ammonia			
Client ID: LCSW	Batch ID: R20841	RunNo: 20841			
Prep Date:	Analysis Date: 8/27/2014	SeqNo: 606588 Units: mg/	L		
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Ammonia	10 1.0 10.00	0 101 80 120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1408717**

02-Sep-14

Client: Animas Environmental Services
Project: San Juan County Outfall Sampling

Sample ID MB-14837 SampType: MBLK TestCode: SM 4500 Norg C: TKN

Client ID: PBW Batch ID: 14837 RunNo: 20704

Prep Date: 8/19/2014 Analysis Date: 8/20/2014 SeqNo: 602449 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total ND 1.0

Sample ID LCS-14837 SampType: LCS TestCode: SM 4500 Norg C: TKN

Client ID: LCSW Batch ID: 14837 RunNo: 20704

Prep Date: **8/19/2014** Analysis Date: **8/20/2014** SeqNo: **602450** Units: **mg/L**

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total 10 1.0 10.00 0 102 80 120

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1408717**

02-Sep-14

Client: Animas Environmental Services
Project: San Juan County Outfall Sampling

Sample ID MB-14791 SampType: MBLK TestCode: SM 2540D: TSS

Client ID: PBW Batch ID: 14791 RunNo: 20615

Prep Date: 8/15/2014 Analysis Date: 8/15/2014 SeqNo: 599662 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Suspended Solids ND 4.0

Sample ID LCS-14791 SampType: LCS TestCode: SM 2540D: TSS

Client ID: LCSW Batch ID: 14791 RunNo: 20615

Prep Date: 8/15/2014 Analysis Date: 8/15/2014 SeqNo: 599663 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Suspended Solids 88 4.0 92.40 0 95.2 82.47 119.05

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105 TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

Website: www.hallenvironmental.com RcptNo: 1 Work Order Number: 1408717 Client Name: Animas Environmental Received by/date: 8/14/2014 8:15:00 AM Logged By: **Ashley Gallegos** 8/14/2014 12:05:54 PM Completed By: **Ashley Gallegos** Reviewed By: Chain of Custody Not Present Yes 🗌 No 🗌 1. Custody seals intact on sample bottles? No 🗀 Not Present Yes 🗸 2. Is Chain of Custody complete? Courier 3. How was the sample delivered? Log In Yes 🔽 No 🗌 NA 🗍 4. Was an attempt made to cool the samples? No 🗌 NA 🗌 Yes 🗹 5. Were all samples received at a temperature of >0° C to 6.0°C No \square Yes 🗹 6. Sample(s) in proper container(s)? No 🗌 7 Sufficient sample volume for indicated test(s)? No 🗌 8. Are samples (except VOA and ONG) properly preserved? Yes No 🗹 NA 🗌 Yes 🗌 9. Was preservative added to bottles? No VOA Vials Yes 🗌 No 🗀 10.VOA vials have zero headspace? Yes 🗆 No 🗹 11. Were any sample containers received broken? # of preserved bottles checked for pH: Yes 🗹 Nο 12. Does paperwork match bottle labels? 12 unless noted) (Note discrepancies on chain of custody) No 🗆 Yes 🗸 13. Are matrices correctly identified on Chain of Custody? No 🗌 Yes 🔽 14. Is it clear what analyses were requested? No 🗌 Yes 🗹 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) NA 🔽 Yes 🗌 No 🗀 16. Was client notified of all discrepancies with this order? Person Notified: Date: eMail Phone Fax In Person By Whom: Via: Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Cooler No Temp °C Condition Seal Intact | Seal No Seal Date Yes 3.4 Good

HALL ENVIRONMENTAL	www.hallenvironmental.com	4901 Hawkins NE - Albuquerque, NM 87109	Tel. 505-345-3975 Fax 505-345-4107	Analysis Request		K, Na)6	below ca, Mg, ide, Sulfa 3 6010 Phospi te ion 664A	see see cotal cota	8015 TPH GI 8260 VOCs Signal and Signal and Great Beecific Conductor Signal and Great Good A10.4 TDS 2540C Signal and Signal and Great Good A10.4 TKN, NH3, TTPS 2540C Signal and Great Good A10.4 Metals 6020/TKN, NH3, TTPS 2540C Signal and Great Good A10.4 TSS, Nitrate/TSS, Nitr	× × × × × ×	× × ×	× × × × × × × × × × × × × × × × × × ×			Remarks: Metals: Al, As, Cd, Cu, Fe, Hg, Ni, Pb, Se, and Zn. Please call with questions.		HOW WORLD Serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.
X Standard		San Juan County Outfall Sampling	Project #:		Project Manager:	Stephanie Lynn		emper	Container Preservative HEAL No.		6-500 mL 2 HNO ₃ , Plastic, 3 H ₂ SO ₄ , - 0 0 Z 1-1L Glass 2 Non	6-500 mL 2 HNO $_3$, 2 Plastic, 3 H $_2$ SO $_4$, 2 - 00 2			Received by: Date Time	Ē	ntracted to other acceptited laboratories. This serves as not
Animas Environmental Services	<u> </u>	624 E Comanche	Farmington, NM 87401	505-564-2281	slynn@animasenvironmental.com	□ Level 4 (Full Validation)			Matrix Sample Request ID	H2O Outfall #11	H2O Outfall #12	H2O Outfall #10			Relinquished by:	-3	113 YIMOUL MARK f necessary, samples submitted to Hall Environmental may be subcontracted to oth
Client: Animas En		Mailing Address: 624	Fan	Phone #: 505	email or Fax#: slynr	QA/QC Package: X Standard	<u> </u>	□ EDD (Type)	Date Time Ma'	8/13/2014 13:30 HZ	8/13/2014 13:50 H2	8/13/2014 14:10 H2			Date: Time: Relin	Time:	If necessary, sampl



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

September 25, 2014

Stephanie Lynn Animas Environmental Services 604 Pinon Street Farmington, NM 87401

TEL: (505) 564-2281 FAX (505) 324-2022

RE: San Juan County Outfall Sampling OrderNo.: 1409575

Dear Stephanie Lynn:

Hall Environmental Analysis Laboratory received 1 sample(s) on 9/12/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order **1409575**Date Reported: **9/25/2014**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services Client Sample ID: Outfall #2

Project:San Juan County Outfall SamplingCollection Date: 9/9/2014 5:40:00 PMLab ID:1409575-001Matrix: AQUEOUSReceived Date: 9/12/2014 6:30:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JRR
Nitrate+Nitrite as N	1.1	1.0	mg/L	5	9/19/2014 2:48:14 AM	R21310
EPA METHOD 200.7: METALS					Analyst	: JLF
Aluminum	0.20	0.020	mg/L	1	9/17/2014 3:22:19 PM	15338
Cadmium	ND	0.0020	mg/L	1	9/17/2014 3:22:19 PM	15338
Iron	0.22	0.020	mg/L	1	9/17/2014 3:22:19 PM	15338
Lead	ND	0.0050	mg/L	1	9/17/2014 3:22:19 PM	15338
Nickel	ND	0.010	mg/L	1	9/17/2014 3:22:19 PM	15338
Zinc	ND	0.010	mg/L	1	9/17/2014 3:22:19 PM	15338
EPA 200.8: METALS					Analyst	: DBD
Arsenic	ND	0.0010	mg/L	1	9/18/2014 3:25:08 PM	15338
Selenium	0.0023	0.0010	mg/L	1	9/18/2014 2:20:03 PM	15338
EPA METHOD 245.1: MERCURY					Analyst	: MMD
Mercury	ND	0.00020	mg/L	1	9/15/2014 2:36:03 PM	15279
EPA METHOD 1664A					Analyst	: MRA
N-Hexane Extractable Material	ND	5.4	mg/L	1	9/19/2014	15364
SM 4500 NH3: AMMONIA					Analyst	: TMG
Nitrogen, Ammonia	ND	1.0	mg/L	1	9/17/2014 8:00:00 AM	R21250
SM 4500 NORG C: TKN					Analyst	: TMG
Nitrogen, Kjeldahl, Total	ND	1.0	mg/L	1	9/16/2014 9:25:00 AM	15290
SM 2540D: TSS					Analyst	: KS
Suspended Solids	ND	4.0	mg/L	1	9/15/2014 12:36:00 PM	15264

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 1 of 9

- $P \hspace{0.5cm} \hbox{Sample pH greater than 2.} \\$
- RL Reporting Detection Limit



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

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

September 22, 2014

Hall Environmental Analysis Laborat

4901 Hawkins NE

Albuquerque, NM 87109

ESC Sample # : L721896-01

Date Received :

September 16, 2014

Site ID :

Description Sample ID

1409575-001D OUTFALL 2

Project # :

Collected By : Collection Date : 09/09/14 17:40

Parameter	Result	Det. Limit	Units	Method	Date	Dil.	
COD	13.	10.	mg/l	410.4	09/20/14	1	

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

Note:

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

Reported: 09/22/14 09:26 Printed: 09/22/14 09:27



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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

September 22, 2014

Site ID :

Project # :

ESC Sample # : L721896-02

Hall Environmental Analysis Laborat

4901 Hawkins NE Albuquerque, NM 87109

Date Received :

September 16, 2014

Description

Sample ID

1409575-001E OUTFALL 2

Collected By : Collection Date : 09/09/14 17:40

Parameter	Result	Det. Limit	Units	Method	Date Dil.
Phosphorus. Total	BDL	0.10	mq/l	365.4	09/21/14 1

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

Note:

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

Reported: 09/22/14 09:26 Printed: 09/22/14 09:27

Summary of Remarks For Samples Printed 09/22/14 at 09:27:07

TSR Signing Reports: 288 R5 - Desired TAT

Enter Sample ID's AND Client Sample Id name if listed on bottom of CoC requesting All dissolved metals are field filtered Confirm Method # with client on all metals if not listed

Sample: L721896-01 Account: HALLENVANM Received: 09/16/14 09:00 Due Date: 09/23/14 00:00 RPT Date: 09/22/14 09:26

Sample: L721896-02 Account: HALLENVANM Received: 09/16/14 09:00 Due Date: 09/23/14 00:00 RPT Date: 09/22/14 09:26



Hall Environmental Analysis Laboratory

4901 Hawkins NE

Albuquerque, NM 87109

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

Tax I.D. 62-0814289

Est. 1970

Quality Assurance Report Level II

L721896

September 22, 2014

				ory Blank			Limit		Batch	Data	n1
Analyte	Result		Units	* 1	Rec		TIMIE		вассп	расе	<u>Analy</u> zed
Phosphorus, Total	< .1		mg/l	and the second	ost i fil				WG744012	09/21	/14 13:50
COD	< 10		mg/l						WG743992	09/20	/14 10:57
Analyte	Units	Resul		licate Duplicate	RPI	D	Limit		Ref Sam	ip	Batch
Phosphorus, Total Phosphorus, Total	mg/l mg/l	0.250 0.330		0.240 0.350	4.0 5.8		20 20		L721935 L721468		WG744012 WG744012
COD : COD	mg/l mg/l	340. 62.0		3 40. 63.0	0.0	0	5	REV In	L722545 L721 <u>34</u> 2		WG743992 WG743992
		Laboi	ratory	Control S	amole						
Analyte	Units		vn Val		Result		% Rec		Limit		Batch
Phosphorus, Total	mg/1	Seau t al		.0.	936		93.6		90-110	W.C.F.	WG744012
COD	mg/l	183		18	6.		102.		90-110_		WG743992
	s (*)	Laborator	/ Contr	ol Sample	Duplic	cate					
Analyte		Result	Ref	%R			imit	RPD	Li	<u>mi</u> t	Batch
Phosphorus, Total	mg/l	0.929	0.93	6 , 93	.0		00-110	0.751	20	MARTH.	WG744012
COD	mg/l	187.	186.	10	2		00-110	0.536	. 5		WG743992
			Matri	x Spike							
Analyte	Units	MS Res	Ref	Res T	Λ ;	% Rec	Limit_		Ref Samp)	Batch
Phosphorus, Total	mg/l	2.82	0.3	40 2.	5	99.0	90-110	n (Bai	L721808-	-01	WG744012
COD	mg/l	443.	56.	0 40	0 9	97.0	90-110		L721754-	-01	WG743992
Analyte	Units	ृ Mat: MSD	rix Spi Ref	ke Duplic %Rec		Limit	<u>RP</u> D	Limit	Ref Samp		Batch
Phosphorus, Total	mg/l	2.83	2.82	99.6		90-110	0.354	20	L721808	-01	WG744012
COD	mg/l	443.	443.	96.8	,	90-110	0.0	5	L721754	-01	WG743992

Batch number /Run number / Sample number cross reference

WG744012: R2991454: L721896-02 WG743992: R2991582: L721896-01

^{* *} 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.'

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409575**

25-Sep-14

Client: Animas Environmental Services
Project: San Juan County Outfall Sampling

Sample ID MB-15364 SampType: MBLK TestCode: EPA Method 1664A

Client ID: PBW Batch ID: 15364 RunNo: 21364

Prep Date: 9/18/2014 Analysis Date: 9/19/2014 SeqNo: 623894 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

N-Hexane Extractable Material ND 5.0 Silica Gel Treated N-Hexane Extrac ND 5.0

Sample ID LCS-15364 SampType: LCS TestCode: EPA Method 1664A

Client ID: LCSW Batch ID: 15364 RunNo: 21364

Prep Date: 9/18/2014 Analysis Date: 9/19/2014 SeqNo: 623895 Units: mg/L

LowLimit Analyte Result **PQL** SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual N-Hexane Extractable Material 36 5.0 40.00 0 89.2 78 114 16 20.00 0 82.0 64 Silica Gel Treated N-Hexane Extrac 5.0 132

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Page 2 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409575**

25-Sep-14

Client: Animas Environmental Services
Project: San Juan County Outfall Sampling

Sample ID MB-15338 SampType: MBLK TestCode: EPA Method 200.7: Metals PBW Client ID: Batch ID: 15338 RunNo: 21261 9/17/2014 Prep Date: Analysis Date: 9/17/2014 SeqNo: 620076 Units: mg/L Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Aluminum ND 0.020 Cadmium ND 0.0020 0.020 Iron ND Lead ND 0.0050 Nickel ND 0.010 Zinc ND 0.010

Sample ID LCS-15338 SampType: LCS Client ID: LCSW Batch ID: 15338 Prep Date: 9/17/2014 Analysis Date: 9/17/2014				F	RunNo: 2		i			
Analyte	Result	Date: 9/ PQL		SPK Ref Val	SeqNo: 6 %REC	LowLimit	Units: mg/L HighLimit	%RPD	RPDLimit	Qual
Aluminum	0.55	0.020	0.5000	0	111	85	115	701111111111111111111111111111111111111	TO DEMINE	Quai
Cadmium	0.49	0.0020	0.5000	0	98.5	85	115			
Iron	0.51	0.020	0.5000	0	101	85	115			
Lead	0.50	0.0050	0.5000	0	101	85	115			
Nickel	0.48	0.010	0.5000	0	95.6	85	115			
Zinc	0.51	0.010	0.5000	0	102	85	115			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Page 3 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409575**

25-Sep-14

Client: Animas Environmental Services
Project: San Juan County Outfall Sampling

Sample ID LLLCS-15338 SampType: LCSLL TestCode: EPA 200.8: Metals

Client ID: BatchQC Batch ID: 15338 RunNo: 21296

Prep Date: 9/17/2014 Analysis Date: 9/18/2014 SeqNo: 621424 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Arsenic 0.023 0.0010 0.02500 0 92.7 85 115 0.023 0.0010 0 91.1 85 Selenium 0.02500 115

Sample ID MB-15338 SampType: MBLK TestCode: EPA 200.8: Metals

Client ID: PBW Batch ID: 15338 RunNo: 21296

Prep Date: 9/17/2014 Analysis Date: 9/18/2014 SeqNo: 621427 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Arsenic
 ND
 0.0010

 Selenium
 ND
 0.0010

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Page 4 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409575**

25-Sep-14

Client: Animas Environmental Services
Project: San Juan County Outfall Sampling

Sample ID MB-15279 SampType: MBLK TestCode: EPA Method 245.1: Mercury

Client ID: PBW Batch ID: 15279 RunNo: 21205

Prep Date: 9/15/2014 Analysis Date: 9/15/2014 SeqNo: 617635 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Mercury ND 0.00020

Sample ID LCS-15279 SampType: LCS TestCode: EPA Method 245.1: Mercury

Client ID: LCSW Batch ID: 15279 RunNo: 21205

Prep Date: 9/15/2014 Analysis Date: 9/15/2014 SeqNo: 617636 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Mercury 0.0055 0.00020 0.005000 0 109 80 120

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Page 5 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409575**

25-Sep-14

Client: Animas Environmental Services
Project: San Juan County Outfall Sampling

Sample ID MB SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBW Batch ID: R21310 RunNo: 21310

Prep Date: Analysis Date: 9/18/2014 SeqNo: 621823 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrate+Nitrite as N ND 0.20

Sample ID LCS SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSW Batch ID: R21310 RunNo: 21310

Prep Date: Analysis Date: 9/18/2014 SeqNo: 621824 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrate+Nitrite as N 3.3 0.20 3.500 0 95.6 90 110

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Page 6 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409575**

25-Sep-14

Client: Animas Environmental Services
Project: San Juan County Outfall Sampling

Sample ID MB SampType: MBLK TestCode: SM 4500 NH3: Ammonia

Client ID: PBW Batch ID: R21250 RunNo: 21250

Prep Date: Analysis Date: 9/17/2014 SeqNo: 619403 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Ammonia ND 1.0

Sample ID LCS SampType: LCS TestCode: SM 4500 NH3: Ammonia

Client ID: LCSW Batch ID: R21250 RunNo: 21250

Prep Date: Analysis Date: 9/17/2014 SeqNo: 619404 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Ammonia 9.8 1.0 10.00 0 98.0 80 120

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Page 7 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409575**

25-Sep-14

Client: Animas Environmental Services
Project: San Juan County Outfall Sampling

Sample ID MB-15290 SampType: MBLK TestCode: SM 4500 Norg C: TKN

Client ID: PBW Batch ID: 15290 RunNo: 21231

Prep Date: 9/15/2014 Analysis Date: 9/16/2014 SeqNo: 618486 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total ND 1.0

Sample ID LCS-15290 SampType: LCS TestCode: SM 4500 Norg C: TKN

Client ID: LCSW Batch ID: 15290 RunNo: 21231

Prep Date: 9/15/2014 Analysis Date: 9/16/2014 SeqNo: 618487 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total 9.9 1.0 10.00 0 99.4 80 120

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Page 8 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409575**

25-Sep-14

Client: Animas Environmental Services
Project: San Juan County Outfall Sampling

Sample ID MB-15264 SampType: MBLK TestCode: SM 2540D: TSS

Client ID: **PBW** Batch ID: **15264** RunNo: **21222**

Prep Date: 9/12/2014 Analysis Date: 9/15/2014 SeqNo: 618260 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Suspended Solids ND 4.0

Sample ID LCS-15264 SampType: LCS TestCode: SM 2540D: TSS

Client ID: LCSW Batch ID: 15264 RunNo: 21222

Prep Date: 9/12/2014 Analysis Date: 9/15/2014 SeqNo: 618261 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Suspended Solids 81 4.0 91.80 0 88.2 83.99 119.83

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Page 9 of 9



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name:	Animas Environmental	Work Order Number:	1409575		RcptNo: 1	
Received by/da	te:	09/12/14				
Logged By:	Lindsay Mangin	9/12/2014 6:30:00 AM		James Harris		
Completed By:	Lindsay Mangin	9/12/2014 7:38:26 AM		Junky Harge		
Reviewed By:	00	7/12/14	_			
Chain of Cus	stody	4				•
1. Custody sea	als intact on sample bottles?		Yes \square	No 🗌	Not Present 🗹	
2. Is Chain of	Custody complete?		Yes 🗹	No 🗌	Not Present	
3. How was th	e sample delivered?		Courier			
<u>Log In</u>						
4. Was an att	empt made to cool the sample	s?	Yes 🗹	No 🗆	na 🗆	
5. Were all sa	imples received at a temperatu	re of >0° C to 6.0°C	Yes 🗹	No 🗆	NA \square	
6. Sample(s)	in proper container(s)?		Yes 🗹	No 🗀		
7. Sufficient s	ample volume for indicated tes	t(s)?	Yes 🗹	No 🗆		
8. Are sample	es (except VOA and ONG) prop	erly preserved?	Yes 🗹	No 🗆		
9. Was preser	rvative added to bottles?		Yes 🗌	No 🗹	NA 🗆	
10.VOA vials h	nave zero headspace?		Yes 🗌	No 🗆	No VOA Vials 🗹	
	sample containers received bro	oken?	Yes	No 🗹	# -£	CS 09/12/14
					# of preserved bottles checked	¥5 377
	rwork match bottle labels? epancies on chain of custody)		Yes 🗹	No 📙	for pH:	'>12 unless noted)
	es correctly identified on Chain	of Custody?	Yes 🗸	No 🗆	Adjusted?	no
	hat analyses were requested?	-	Yes 🗹	No 🗆		10
	olding times able to be met? y customer for authorization.)		Yes 🗹	No 🗆	Checked by:	<u>(C</u> C
Special Han	dling (if applicable)			-		
16. Was client	notified of all discrepancies wit	th this order?	Yes 🗌	No 🗌	NA 🗹	
Perse	on Notified:	Date:	***************************************			
By W	/hom:	Via:	eMail _	Phone Fax	in Person	
	arding:	Annual Control of Control				
Clien	nt Instructions:	Market and the second s				
17. Additional	remarks:		·			.
18. <u>Cooler In</u> Cooler	No Temp °C Condition	Seal Intact Seal No	Seal Date	Signed By		
<u> </u>	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					

Air Bubbles (Y or N) lone Azsur 50anl 13 half fall. Not enough Souple Remarks: Metals: Al, As, G, Fe, Hg, Ni, Pb, Se, and Zn كاستوريد **ANALYSIS LABORATORY** HALL ENVIRONMENTAL If necessary, samples submitted to Hall Environmental may be subcontracted to other active laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report SUNDAGENA ISTOT 0000 0000 5 1273M メ 4901 Hawkins NE - Albuquerque, NM 87109 Fax 505-345-4107 h'altı (1º) (# www.hallenvironmental.com Analysis Request (AOV) 808S8 Please Call with questions 8081 Pesticides / 8082 PCB's Anions (F,Cl,NO3,NO2,PO4,SO4) RCRA 8 Metals Tel. 505-345-3975 (SMIS 07S8 10 01E8) s'HA9 EDB (Method 504.1) (Nethod 418.1) (OAM / OAG / OAS) 83108 H9T BTEX + MTBE + TPH (Gas only) BTEX + MTBE + TMB's (8021) San Juan County Outfall Sompling 1860 17067E 83 HEAL No. 7 2 ☐ Rush Preservative 3.H2.SQ4 7-110M Type 120 2 HW3 Sample Temperature: **K**Yes Turn-Around Time: Project Manager: Ċ, Project Name Container Type and # 6-500mL On Ice: Siers Received by Project #: Sampler: □ Level 4 (Full Validation) Sample Request ID Chain-of-Custody Record きて 4 Client: Animas Environmental 45-524-228 Cather! Farmington NM 8746 Mailing Address: LOUT W. DUM iquished by: Other Matrix 4,0 Services 97 Time QA/QC Package: 1560 ☐ EDD (Type) email or Fax#: Accreditation □ Standard □ NELAP Phone #: 4-6-14 Date



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

October 28, 2014

Stephanie Hinds Animas Environmental Services 604 Pinon Street Farmington, NM 87401

TEL: (505) 564-2281 FAX (505) 324-2022

RE: SJC OrderNo.: 1410555

Dear Stephanie Hinds:

Hall Environmental Analysis Laboratory received 2 sample(s) on 10/10/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order **1410555**

Date Reported: 10/28/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services Client Sample ID: Outfall #6

 Project:
 SJC
 Collection Date: 10/9/2014 8:15:00 AM

 Lab ID:
 1410555-001
 Matrix: AQUEOUS
 Received Date: 10/10/2014 4:15:00 PM

Analyses	Result	RL Qu	ıal Units	DF Date Analyzed Batch
EPA METHOD 300.0: ANIONS				Analyst: JRR
Nitrate+Nitrite as N	1.1	1.0	mg/L	5 10/13/2014 1:41:44 PM R21876
EPA METHOD 200.7: METALS				Analyst: ELS
Aluminum	17	1.0	* mg/L	50 10/16/2014 3:11:45 PM 15908
Iron	19	1.0	* mg/L	50 10/16/2014 3:11:45 PM 15908
Zinc	0.34	0.010	mg/L	1 10/15/2014 6:07:20 PM 15908
EPA 200.8: METALS				Analyst: DBD
Selenium	ND	0.010	mg/L	10 10/15/2014 5:59:55 PM 15908
EPA METHOD 245.1: MERCURY				Analyst: MMD
Mercury	ND	0.00020	mg/L	1 10/16/2014 1:38:35 PM 15933
EPA METHOD 1664A				Analyst: MRA
N-Hexane Extractable Material	ND	5.3	mg/L	1 10/16/2014 15943
SM 4500 NH3: AMMONIA				Analyst: TMG
Nitrogen, Ammonia	ND	1.0	mg/L	1 10/17/2014 7:15:00 AM R21975
SM 4500 NORG C: TKN				Analyst: TMG
Nitrogen, Kjeldahl, Total	2.5	1.0	mg/L	1 10/16/2014 11:55:00 AM 15936
SM 2540D: TSS				Analyst: KS
Suspended Solids	440	20	mg/L	1 10/14/2014 6:14:00 PM 15886

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 1 of 10
 - P Sample pH greater than 2.
- RL Reporting Detection Limit

Analytical Report

Lab Order 1410555

Hall Environmental Analysis Laboratory, Inc. Date Reported: 10/28/2014

CLIENT: Animas Environmental Services Client Sample ID: Outfall #5

SJC **Project: Collection Date:** 10/9/2014 8:30:00 AM 1410555-002 Matrix: AQUEOUS Lab ID: Received Date: 10/10/2014 4:15:00 PM

Analyses	Result	RL Qu	ual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analyst:	JRR
Nitrate+Nitrite as N	ND	1.0	mg/L	5 10/13/2014 1:54:09 PM	R21876
EPA METHOD 200.7: METALS				Analyst:	ELS
Aluminum	32	2.0	* mg/L	100 10/16/2014 3:19:05 PM	15908
Iron	41	2.0	* mg/L	100 10/16/2014 3:19:05 PM	15908
Zinc	0.27	0.010	mg/L	1 10/15/2014 6:08:52 PM	15908
EPA 200.8: METALS				Analyst:	DBD
Selenium	ND	0.010	mg/L	10 10/15/2014 6:05:15 PM	15908
EPA METHOD 245.1: MERCURY				Analyst:	MMD
Mercury	ND	0.00020	mg/L	1 10/16/2014 1:40:21 PM	15933
EPA METHOD 1664A				Analyst:	MRA
N-Hexane Extractable Material	ND	5.4	mg/L	1 10/16/2014	15943
SM 4500 NH3: AMMONIA				Analyst:	TMG
Nitrogen, Ammonia	ND	1.0	mg/L	1 10/17/2014 7:15:00 AM	R21975
SM 4500 NORG C: TKN				Analyst:	TMG
Nitrogen, Kjeldahl, Total	2.5	1.0	mg/L	1 10/16/2014 11:55:00 AM	1 15936
SM 2540D: TSS				Analyst:	KS
Suspended Solids	1900	20	mg/L	1 10/14/2014 6:14:00 PM	15886

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 - P Sample pH greater than 2.

Page 2 of 10

- RL Reporting Detection Limit



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Est. 1970

REPORT OF ANALYSIS

October 17, 2014

Hall Environmental Analysis Laborat

4901 Hawkins NE Albuquerque, NM 87109

ESC Sample # : L727318-01

Date Received

: Description

October 14, 2014

Sample ID

1410555-001D OUTFALL 6

Site ID : Project # :

Collected By : Collection Date : 10/09/14 08:15

Parameter	Result	Det. Limit	Units_	Method	Date	Dil.	
COD	210	10.	mg/l	410.4	10/16/14	1	
Phosphorus, Total	0.46	0.10	mg/l	365.4	10/17/14	1	

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

Note:

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

Reported: 10/17/14 17:26 Printed: 10/17/14 17:27



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Est. 1970

REPORT OF ANALYSIS

October 17, 2014

Hall Environmental Analysis Laborat

4901 Hawkins NE Albuquerque, NM 87109

ESC Sample # : L727318-02

Date Received :

Description

October 14, 2014

Site ID :

Sample ID

: 1410555-002D OUTFALL 5

Project # :

Collected By : Collection Date : 10/09/14 08:15

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
COD	110	10.	mg/l	410.4	10/16/14	1
Phosphorus, Total	0.74	0.10	mg/l	365.4	10/17/14	1

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

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 10/17/14 17:26 Printed: 10/17/14 17:27



Hall Environmental Analysis Laboratory

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Albuquerque, NM 87109

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Est. 1970

Quality Assurance Report Level II

L727318

October 17, 2014

Analyte	Result		aboratory Jnits	Blank % Red	=	Limit		Batch Dai	te Analyzed
COD	< 10	7720371	ng/I				FRE	WG748889 10,	/16/14 10:45
Phosphorus, Total	< .1		ng/l					WG748501 10,	<u>/17/14_</u> 03:49
Analyte	Units	Result	Duplica t Dupl	ite licate	RPD	Limit		Ref Samp	Batch
COD COD	mg/l mg/l	0.0 1000	0.0 1000) [74] [84] [0.0	5 5	(378.1)	L727732-01 L726972-01	WG748889 WG748889
Phosphorus, Total Phosphorus, Total	mg/l mg/l_	0.0 2.60	0.0 2.60		0.0	20 20		L727217-01 L726816-04	WG748501 WG748501
Analyte	Units	Labor Know	atory Cont n Val		ole sult	% Rec	_	Limit	Batch
COD	mg/l	183	ST THE LA	188.		103.	AALTINI.	90-110	WG748889
Phosphorus, Total	mg/l	1		1.09		109.		90-110	WG748501
Analyte		Laboratory Result	Control: Ref	Sample D %Rec	uplicate	Limit	RPD	Limit	Batch
COD	mg/1	189.	188.	103.		90-110	0.0	rus mun g mar	WG748889
Phosphorus, Total	mg/l	1.06	1,09	106.	<u> </u>	90-110	2.79	20	WG748501
Analyte	Units	MS Res	Matrix S Ref Re		% Rec_	Limit		Ref Samp	Batch
COD	.mg/l	429.	47.0	400	96.0	90-110		L727222-02	WG748889
Phosphorus, Total	mg/l	2.85	0.160	2.5	110.	90-110)	L726825-02	WG748501
Analyte	Units_		ix Spike Ref	Duplicat %Rec	e Limit	RPD	Limit	Ref Samp	Batch
COD	mg/1	429.	429.	95.5	90-110	0.0	5	1727222-02	WG748889
Phosphorus, Total	mg/l	2.95	2.85	112.*	90-110	3.45	20	L726825-02	WG748501

Batch number /Run number / Sample number cross reference

WG74889: R2998067: L727318-01 02 WG748501: R2998443: L727318-01 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.'

Hall Environmental Analysis Laboratory, Inc.

WO#: **1410555**

28-Oct-14

Client: Animas Environmental Services

Project: SJC

Sample ID MB-15943 SampType: MBLK TestCode: EPA Method 1664A

Client ID: PBW Batch ID: 15943 RunNo: 22042

Prep Date: 10/16/2014 Analysis Date: 10/16/2014 SeqNo: 648062 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

N-Hexane Extractable Material ND 5.0 Silica Gel Treated N-Hexane Extrac ND 5.0

Sample ID LCS-15943 SampType: LCS TestCode: EPA Method 1664A

Client ID: LCSW Batch ID: 15943 RunNo: 22042

Prep Date: 10/16/2014 Analysis Date: 10/16/2014 SeqNo: 648063 Units: mg/L

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual N-Hexane Extractable Material 35 5.0 40.00 0 86.5 78 114 17 20.00 0 82.5 64 Silica Gel Treated N-Hexane Extrac 5.0 132

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 1410555

28-Oct-14

Client: Animas Environmental Services

Project: SJC

Sample ID MB-15908 SampType: MBLK TestCode: EPA Method 200.7: Metals

Client ID: **PBW** Batch ID: 15908 RunNo: 21945

Prep Date: 10/15/2014 Analysis Date: 10/15/2014 SeqNo: 644633 Units: mg/L

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Aluminum ND 0.020 ND 0.020 Iron Zinc ND 0.010

Sample ID LCS-15908 SampType: LCS TestCode: EPA Method 200.7: Metals

LCSW RunNo: 21945 Client ID: Batch ID: 15908

Prep Date: 10/15/2014 Analysis Date: 10/15/2014 SeqNo: 644634 Units: mg/L

Analyte **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Aluminum 0.56 0 112 85 0.020 0.5000 115 Iron 0.51 0.020 0.5000 0 102 85 115 0.52 0.010 0.5000 0 103 85 115 Zinc

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- Analyte detected below quantitation limits J
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- В Analyte detected in the associated Method Blank
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1410555**

28-Oct-14

Client: Animas Environmental Services

Project: SJC

Sample ID LLLCS-15908 SampType: LCSLL TestCode: EPA 200.8: Metals

Client ID: BatchQC Batch ID: 15908 RunNo: 21913

Prep Date: 10/15/2014 Analysis Date: 10/15/2014 SeqNo: 644765 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Selenium 0.025 0.0010 0.02500 0 99.2 85 115

Sample ID MB-15908 SampType: MBLK TestCode: EPA 200.8: Metals

Client ID: PBW Batch ID: 15908 RunNo: 21913

Prep Date: 10/15/2014 Analysis Date: 10/15/2014 SeqNo: 644769 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Selenium ND 0.0010

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1410555**

28-Oct-14

Client: Animas Environmental Services

Project: SJC

Sample ID MB-15933 SampType: MBLK TestCode: EPA Method 245.1: Mercury

Client ID: **PBW** Batch ID: **15933** RunNo: **21956**

Prep Date: 10/16/2014 Analysis Date: 10/16/2014 SeqNo: 645214 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Mercury ND 0.00020

Sample ID LCS-15933 SampType: LCS TestCode: EPA Method 245.1: Mercury

Client ID: LCSW Batch ID: 15933 RunNo: 21956

Prep Date: 10/16/2014 Analysis Date: 10/16/2014 SeqNo: 645215 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Mercury 0.0052 0.00020 0.005000 0 105 80 120

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Reporting Detection Limit

P Sample pH greater than 2.

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1410555**

28-Oct-14

Client: Animas Environmental Services

Project: SJC

Sample ID MB SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBW Batch ID: R21876 RunNo: 21876

Prep Date: Analysis Date: 10/13/2014 SeqNo: 642873 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrate+Nitrite as N ND 0.20

Sample ID LCS SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSW Batch ID: R21876 RunNo: 21876

Prep Date: Analysis Date: 10/13/2014 SeqNo: 642874 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrate+Nitrite as N 3.3 0.20 3.500 0 93.9 90 110

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1410555**

28-Oct-14

Client: Animas Environmental Services

Project: SJC

Sample ID MB SampType: MBLK TestCode: SM 4500 NH3: Ammonia

Client ID: PBW Batch ID: R21975 RunNo: 21975

Prep Date: Analysis Date: 10/17/2014 SeqNo: 645924 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Ammonia ND 1.0

Sample ID LCS SampType: LCS TestCode: SM 4500 NH3: Ammonia

Client ID: LCSW Batch ID: R21975 RunNo: 21975

Prep Date: Analysis Date: 10/17/2014 SeqNo: 645925 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Ammonia 9.9 1.0 10.00 0 99.4 80 120

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.

RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1410555**

28-Oct-14

Client: Animas Environmental Services

Project: SJC

Sample ID MB-15936 SampType: MBLK TestCode: SM 4500 Norg C: TKN

Client ID: PBW Batch ID: 15936 RunNo: 21954

Prep Date: 10/16/2014 Analysis Date: 10/16/2014 SeqNo: 645181 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total ND 1.0

Sample ID LCS-15936 SampType: LCS TestCode: SM 4500 Norg C: TKN

Client ID: LCSW Batch ID: 15936 RunNo: 21954

Prep Date: 10/16/2014 Analysis Date: 10/16/2014 SeqNo: 645182 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total 9.9 1.0 10.00 0 99.4 80 120

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.

RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1410555**

28-Oct-14

Client: Animas Environmental Services

Project: SJC

Sample ID MB-15886 SampType: MBLK TestCode: SM 2540D: TSS

Client ID: **PBW** Batch ID: **15886** RunNo: **21908**

Prep Date: 10/14/2014 Analysis Date: 10/14/2014 SeqNo: 644079 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Suspended Solids ND 4.0

Sample ID LCS-15886 SampType: LCS TestCode: SM 2540D: TSS

Client ID: LCSW Batch ID: 15886 RunNo: 21908

Prep Date: 10/14/2014 Analysis Date: 10/14/2014 SeqNo: 644080 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Suspended Solids 86 4.0 91.80 0 93.7 83.99 119.83

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

Sample Log-In Check List

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Client Name:	Animas Environm	nental Work Order Nun	nber: 1410555		RcptNo: 1	
Received by/date	e: <u>()</u> <u>S</u>	10/10/14				
Logged By:	Celina Sessa	10/10/2014 4:15:0	0 PM	Celin S	m	
Completed By:	Celina Sessa	10/10/2014 4:48:1	6 PM	Celin S	7.00-	
Reviewed By:	HM	10/13/14		- J		
Chain of Cus	tody	(2)				
	uls intact on sample	bottles?	Yes	No 🗆	Not Present	
2. Is Chain of C	Custody complete?		Yes 🗸	No 🗌	Not Present	
3. How was the	e sample delivered	?	Courier			
Log In						
4. Was an atte	empt made to cool t	the samples?	Yes 🗹	No 🗆	na 🗀	
5. Were all sar	nples received at a	temperature of >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗆	
6. Sample(s) ii	n proper container(s)?	Yes 🗹	No 🗌		
7. Sufficient sa	ımple volume for in	dicated test(s)?	Yes 🗹	No 🗌		
8. Are samples	(except VOA and	ONG) properly preserved?	Yes 🗹	No 🗌		
9. Was preserv	vative added to bot	tles?	Yes 🗌	No 🗸	NA 🗀	
10.VOA vials ha	ave zero headspac	e?	Yes 🗌	No 🗆	No VOA Vials 🗹	
11. Were any sa	ample containers re	eceived broken?	Yes	No 🗹	# of preserved /	~
	work match bottle l		Yes 🗹	No 🗆	bottles checked (for pH:	>12 up(ess noted)
-	pancies on chain o	or custody) d on Chain of Custody?	Yes 🔽	No 🗆	Adjusted	NO
	nat analyses were r		Yes 🗹	No 🗆		
	ding times able to		Yes 🗸	No 🗌	Checked by:	X
(If no, notify	customer for author	orization.)		·		XV -
Special Hand	lling (if applica	<u>able)</u>				
16. Was client r	notified of all discre	pancies with this order?	Yes	No 🗆	NA 🗹	
Perso	n Notified:	Da	ite		•	
By Wh	hom:	Vi	a: 🗌 eMail 🗌 F	Phone 🔲 Fax	☐ In Person	
Regar	rding:	20 1000				
Client	Instructions:					
17. Additional r	remarks:					
18. <u>Cooler info</u>		j	1 -		•	
Cooler N	lo Temp °C C	ondition Seal Intact Seal No od Yes	Seal Date	Signed By		
<u> </u>	1.0 60	Ou 1 G3				

##: Shinds@animasenvironmental.com ##: Shinds@anima	Client:	Animas		Animas Environmental Services	X Standard	□ Rush			T R	ALL E	HALL ENVIRONMENTAL ANALYSIS LABORATORY	IMENTA ORATOF	_ ≿
Solution Street Such an independent Such and a project #:		!			Project Name:					www	.hallenviror	ımental.cor	۶
Famington, NM 87401 Project #: Project	iling Addre	SS:	604 W.		SJC			4	901 Hz	wkins N	E - Albuqu	ıerque, NM	8710
## Sample Request ID Container Type Preservative			Farming	NM 87401	Project #:				el. 50£	-345-39			107
### Project Manager: Control Project Manager: Control Project Man	one #:		505-56	4-2281		ļ				Analy	sis Reques	#	
Other Ample Sample Sam	ail or Fax#	٠.٠	shinds@	animasenvironmental.com	Project Manager	,.		wole	•				
Sample Container Contain	/QC Packag	.: .:						eq ə					-
Sampler S. Hinds/ S. Glasses Sampler S. Hinds/ S. Glasses Sampler S. Hinds/ S. Glasses Sampler Smyle Yarden alter Type Preservative Type Ty	X Standard			☐ Level 4 (Full Validation)	Stephanie (Lynn) Hinds		es (
DD (Type) A Do (Type)	creditation: NELAP		□ Other		Sampler: On Ice:	S. Hinds/ S. (X Yes	Glasses Gli No)747/0					(N)
17 11 12 13 14 15 15 15 15 15 15 15	EDD (Type				Sample Temper	1	\mathcal{O}_{p}	109					o Д
1/2014 8:15 H2O Outfall #6 (6) 500 mL Plastic (3) H2SO4	Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO. 14/10555				i) səlddu8 riA
1/2014 8:30 H2O Outfall #5 (6) 500 mL Plastic (2) HNO3 (7) 1L Glass (2) Non -003	10/9/2014	8:15	H20	Outfall #6		(2) HNO3 (3) H2SO4 (2) Non	100-						
Time: Relinquished by: Date Time	10/9/2014	8:30	H20	Outfall #5	500 mL Plastic 1L Glass	(2) HNO3 (3) H2SO4 (2) Non	-003			<u>-</u>			
Time: Relinquished by:								j	-		_		
Time: Relinquished by:													
Time: Relinquished by:								_			_		
Time: Relinquished by: John House Bate Time 10 10 14 10 15 16 16 16 16 16 16 16													
14 1011 Hoper House (Martin Wooder 10/14 1011 Time: Relinquished by: Received by: Date Time 14 1115 Mat. Jalle Of the Sont 10/10/14 1615		jue.	Relinguish	od bv.	Received by:			Remar			_		
Time: Relinquished by:	-	<u> </u>	H	٠, ٢	Como true	Joseph !	_0	Metals questic	: Al, Fe	, Zn, Hg	ı, Se Pleası	e call with	
1115 Moto Som allen Sons		ime:	Relinquish	ed by:	Received by:								
		1115			allen	1	10/10/14 1615						



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

June 10, 2015

Stephanie Hinds Animas Environmental Services 604 Pinon Street Farmington, NM 87401

TEL: (505) 564-2281 FAX (505) 324-2022

RE: San Juan County Stormwater OrderNo.: 1505544

Dear Stephanie Hinds:

Hall Environmental Analysis Laboratory received 2 sample(s) on 5/13/2015 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

Analytical ReportLab Order **1505544**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/10/2015

CLIENT: Animas Environmental Services Client Sample ID: Outfall #6

Project:San Juan County StormwaterCollection Date: 5/12/2015 4:10:00 PMLab ID:1505544-001Matrix: AQUEOUSReceived Date: 5/13/2015 7:00:00 AM

Analyses	Result	RL (Qual Units	DF Date Analyzed	Batch
EPA METHOD 1664A				Analyst:	MRA
N-Hexane Extractable Material	7.7	5.2	mg/L	1 5/26/2015	19379
EPA METHOD 300.0: ANIONS				Analyst:	LGT
Nitrogen, Nitrite (As N)	ND	0.50	mg/L	5 5/13/2015 7:40:22 PM	R26175
Nitrogen, Nitrate (As N)	6.3	0.50	mg/L	5 5/13/2015 7:40:22 PM	R26175
SM 4500 NH3: AMMONIA				Analyst:	JML
Nitrogen, Ammonia	ND	1.0	mg/L	1 5/19/2015 11:11:00 AM	R26290
SM 4500 NORG C: TKN				Analyst:	JML
Nitrogen, Kjeldahl, Total	21	5.0	mg/L	1 5/24/2015 2:29:00 PM	19363
SM 2540D: TSS				Analyst:	JML
Suspended Solids	14000	80	mg/L	1 5/18/2015 10:20:00 AM	19261
EPA METHOD 200.7: TOTAL METALS				Analyst:	JLF
Aluminum	80	2.0	* mg/L	100 5/21/2015 12:39:28 PM	19301
Iron	79	2.0	* mg/L	100 5/21/2015 12:39:28 PM	19301
Zinc	0.81	0.010	mg/L	1 5/21/2015 12:01:40 PM	19301
200.8 ICPMS METALS:TOTAL				Analyst:	DBD
Selenium	ND	0.0050	mg/L	5 5/20/2015 4:54:44 PM	19301
EPA METHOD 245.1: MERCURY				Analyst:	MED
Mercury	0.00052	0.00020	mg/L	1 5/28/2015 9:47:51 AM	19401

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 1 of 10

- P Sample pH Not In Range
- RL Reporting Detection Limit

Analytical ReportLab Order **1505544**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/10/2015

CLIENT: Animas Environmental Services Client Sample ID: Outfall #5

Project:San Juan County StormwaterCollection Date: 5/12/2015 4:35:00 PMLab ID:1505544-002Matrix: AQUEOUSReceived Date: 5/13/2015 7:00:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 1664A						Analys	t: MRA
N-Hexane Extractable Material	ND	5.3		mg/L	1	5/26/2015	19379
EPA METHOD 300.0: ANIONS						Analys	st: LGT
Nitrogen, Nitrite (As N)	ND	0.50		mg/L	5	5/13/2015 8:05:10 PM	R26175
Nitrogen, Nitrate (As N)	0.97	0.50		mg/L	5	5/13/2015 8:05:10 PM	R26175
SM 4500 NH3: AMMONIA						Analys	st: JML
Nitrogen, Ammonia	ND	1.0		mg/L	1	5/19/2015 11:11:00 Al	M R26290
SM 4500 NORG C: TKN						Analys	t: JML
Nitrogen, Kjeldahl, Total	12	5.0		mg/L	1	5/24/2015 2:29:00 PM	19363
SM 2540D: TSS						Analys	st: JML
Suspended Solids	8500	80		mg/L	1	5/18/2015 10:20:00 Al	M 19261
EPA METHOD 200.7: TOTAL METALS						Analys	t: JLF
Aluminum	25	2.0	*	mg/L	100	5/21/2015 12:41:24 PI	M 19301
Iron	33	2.0	*	mg/L	100	5/21/2015 12:41:24 Pi	VI 19301
Zinc	0.63	0.010		mg/L	1	5/21/2015 12:03:30 PI	M 19301
200.8 ICPMS METALS:TOTAL						Analys	t: DBD
Selenium	ND	0.0050		mg/L	5	5/20/2015 4:57:47 PM	19301
EPA METHOD 245.1: MERCURY						Analys	t: MED
Mercury	0.00040	0.00020		mg/L	1	5/28/2015 9:49:54 AM	19401

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 2 of 10

- P Sample pH Not In Range
- RL Reporting Detection Limit

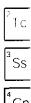
1505544001D OUTFALL 6 Collected date/time: 05/12/15 16:10

SAMPLE RESULTS - 01

ONE LAB. NATIONWIDE.

Wet Chemistry by Method 365.4

·	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Phosphorus,Total	5.82		0.200	2	05/26/2015 10:10	<u>WG790312</u>
Wet Chemistry by	Method 410.4					
	Result	Qualifier	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	mg/l		mg/l		date / time	
COD	341		10.0	1	05/21/2015 06:06	WG790307













DATE/TIME:

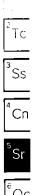
1505544002D OUTFALL 5 Collected date/time: 05/12/15 16:35

SAMPLE RESULTS - 02

ONE LAB. NATIONWIDE.

Wet Chemistry by Method 365.4

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Phosphorus, Total	2.89		0.100	1	05/26/2015 10:11	<u>WG790312</u>
Wet Chemistry by M	othod 410 4					
Trace Offermony by in	CHIOG TIO.T					
	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte		Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch











ACCOUNT:

SDG:

QUALITY CONTROL SUMMARY

70,10-09169

ONE LAB. NATIONWIDE.

Tc Ss Ss Ss Ss Sr

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Sc Sc

Method Blank (MB)

MB Result MB Qualifier MB RDL	
Phosphorus, Total ND 0.100	

L764714-01 Original Sample (OS) • Duplicate (DUP)

	DUP RPD Limits	5€	20	
	DUP Qualifier			
	DUP RPD	≫	2.2	
	Dilution		-	
	Original Result DUP Result	ľ/gm	4.7	
05/26/15 09:27	Original Resu	l/gm	4.6	
(OS) 05'26/15 09:26 • (DUP) 05/26/15 09:27		Analyte	Phosphorus, Total	

L765'82-02 Original Sample (OS) • Duplicate (DUP)

DUP RPD DUP Qualifier DUP RPD Limits	%	2.2 20
--------------------------------------	---	--------

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

	ts		
	RPD Limits	%	20
	RPD	3€	7.38
	LCSD Qualifier		
	LCS Qualifier		
	Rec. Limits	%	90.0-110
	LCSD Rec.	3€	104
	LCS Rec.	3€	9.96
	LCSD Result	mg/l	1.04
4	Spike Amount LCS Result	mg/l	0.966
2) 05/26/15 09:2	Spike Amou	l/6m	1.00
LCS; 05/26/15 09:22 • (LCSD) 05/26/15 09:24		Analyte	Phosphorus,Total

L765036-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

	imits		
	RPD Limits	98	20
	RPD	%	8.63
	MSD Qualifier		
	MS Qualifier		
	Rec. Limits	54	90.0-110
	Dilution		-
	MSD Rec.	%	94.0
	MS Rec.	જે	103
	MSD Result	√gm	2.55
33	MS Result	∥⁄gm	2.78
SO 61/97/SO (DSM)	Spike Amount Original Result MS Result	l/gm	0.200
5/76/15 09:38 • (Spike Amo		2.50
(05) 05:26/15 04:37 • (MS) 05/26/15 09:38 • (MSD) 05/26/15 09:39		Analyte	Phosphorus.Total

PROJECT:

DATE/TIME:

QUALIT CONTROL SUMMARY

ONE LAB. NATIONWIDE.

Method Blank (MB)

MB Result MB Dualified MB ROL M		MAD Docult											
mg mg mg mg mg mg mg mg		JIDSAY GIAI	MB Qualifier	MBRDL									
112-19 Original Sample (OS) - Duplicate (DUP) 21715 06308 - (DUP) 05521715 06309 - (LCS) - Laboratory Control Sample (LCS) - Rec Limits LCS Dualifier LCS Dualifier RPD RPD Limits RPD RPD Limits RPD RPD Limits RPD RPD Limits RPD RPD Limits RPD	Analyte	l/gm		mg/l									
12-19 Original Sample (OS) • Duplicate (DUP) 12-19 Original Sample (OS) • Duplicate (DUP) 12-19 Original Sample (OS) • Duplicate (DUP) 1-10 OLIGINAR	cop	Q		10.0									
721/15 G6:06 • (DUP) 05/21/15 G6:00 • (LCS) - Laboratory Control Sample Duplicate (LCS) - Laboratory Control Sample Duplicate (LCSD) 3-21/15 G6:00 • (LCS) 05/21/15 G6:00 • (LCS) 05/2	L765112-19 Original	Sample (OS) • [Juplicate (E	(PD)			-						
Original Result DuP Result Dilution DUP RPD Limits mg/s mg/l 17 1 0.00 5 TOTOTY Control Sample (LCS) - Laboratory Control Sample (LCS) - Rectimits Rectimits (Rectimits (LCS) - Laboratory Control Sample (LCS) - Result (LCS) - Laboratory Control Sample (LCS) - Result (LCS) - Result (LCS) - Rectimits (RCS) - Result (RCS) - Rectimits (RCS) - Result (R	(OS) 05/21/15 06:06 • (DUF	05/21/15 06:06							:				
### ### ### ### ### ### ### ### ### ##		Original Result	DUP Result			Qualifier DUP	RPD Limits						
17 17 17 17 19 19 19 19	Analyte	ូច័យ	mg/l	Š	8	<i></i> ₹							
Figures Oction Sample (LCS) - Laboratory Control Sample Duplicate (LCSD) Spike Amount LCS Result LCS Result LCS Rec. LCSD Rec. Limits LCS Qualifier RPD RPD Limits T2-12 Original Sample (OS) - Matrix Spike (MS) - Matrix Spike Duplicate (MSD) Spike Amount Original Result MS Result MSD	COD	17	17	-	00.0	ß							
12-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD) Spike Amount Original Result MS Result MSP	(LCS) 05:21/15 06:00 • (LC	SD) 05/21/15 06:00 Spike Amount	I CS Result	LCSD Result	LCS Rec	LCSD Rec		I CS Oualifier	H CSD Qualifi		PPD Limits		
12-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD) 12-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD) 12-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD) 12-14 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD) 12-15 Original Sample (OS) • Matrix Spike Duplicate (MSD) 12-15 Original Sample (OS) • Matrix Spike Duplicate (MSD) 12-16 Original Sample (OS) • Matrix Spike Duplicate (MSD) 12-17 Original Sample (OS) • Matrix Spike Duplicate (MSD) 12-17 Original Sample (OS) • Matrix Spike Duplicate (MSD) 12-18 Original Sample (OS) • Matrix Spike Duplicate (MSD) 13-18 Original Samp	Analyte	l/om	ma/l	mo/l	3%	>≤) ,		
12-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD) 121/15 06:02 • (MS) 05/21/15 06:02 • (MSD) 05/21/15 06:02 • (MS) 05/21/15 06	COD	183	168	168	91.8	91.8	90.0-110			0.000	വ		
21/75 06:02 • (MS) 05/21/75 06:02 • (MSD) 0	L765′12-12 Original	Sample (OS) • N	√atrix Spik∈	e (MS) • Matr	ix Spike Du	iplicate (MS	;D)						
Spike Amount Original Result MSD Result MSD Result MSD Rec. Limits MS Qualifier MSD Qualifier RPD mg/l mg/l mg/l %	(OS) 05 21/15 06:02 • (MS)	05/21/15 06:02 • (MSE	D) 05/21/15 06:0	02									
mg/l mg/l mg/l % % % % % % % % % % % % % % % % % % %		Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.		Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
400 ND 378 377 94.5 94.3 1 90.0-110 0.265	4nalyte		l/gm	l/gm	l/gm	3€	% €		δ€			3·5	%
	COD	400	2 2	378	377	94.5	94.3	-	90.0-110			0.265	2

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PROJECT:

DATE/TIME

Hall Environmental Analysis Laboratory, Inc.

WO#: **1505544**

10-Jun-15

Client: Animas Environmental Services
Project: San Juan County Stormwater

Sample ID MB-19379 SampType: MBLK TestCode: EPA Method 1664A

Client ID: PBW Batch ID: 19379 RunNo: 26411

Prep Date: 5/26/2015 Analysis Date: 5/26/2015 SeqNo: 784738 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

N-Hexane Extractable Material ND 5.0

Sample ID LCS-1L-19379 SampType: LCS-1L TestCode: EPA Method 1664A

Client ID: BatchQC Batch ID: 19379 RunNo: 26411

Prep Date: 5/26/2015 Analysis Date: 5/26/2015 SeqNo: 784739 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

N-Hexane Extractable Material 38 5.0 40.00 0 94.8 78 114

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

Page 3 of 10

Hall Environmental Analysis Laboratory, Inc.

WO#: 1505544

10-Jun-15

Client: Animas Environmental Services Project: San Juan County Stormwater

SampType: MBLK Client ID: **PBW** Batch ID: 19301 RunNo: 26339

Prep Date: 5/19/2015 Analysis Date: 5/21/2015 SeqNo: 782717 Units: mg/L

Analyte **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

TestCode: EPA Method 200.7: Total Metals

Aluminum ND 0.020 ND 0.020 Iron Zinc ND 0.010

Sample ID MB-19301

Sample ID LCS-19301 SampType: LCS TestCode: EPA Method 200.7: Total Metals

LCSW Client ID: Batch ID: 19301 RunNo: 26339

Analysis Date: 5/21/2015 Prep Date: 5/19/2015 SeqNo: 782718 Units: mg/L

Analyte **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Aluminum 0 106 85 0.53 0.020 0.5000 115 Iron 0.47 0.020 0.5000 0 94.5 85 115 0.47 0.010 0.5000 0 94.3 85 115 Zinc

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- Analyte detected below quantitation limits J
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- В Analyte detected in the associated Method Blank
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- Reporting Detection Limit

Page 4 of 10

Hall Environmental Analysis Laboratory, Inc.

WO#: 1505544

10-Jun-15

Client: Animas Environmental Services
Project: San Juan County Stormwater

Sample ID LLLCS-19301 SampType: LCSLL TestCode: 200.8 ICPMS Metals:Total

Client ID: BatchQC Batch ID: 19301 RunNo: 26324

Prep Date: 5/19/2015 Analysis Date: 5/20/2015 SeqNo: 782283 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Selenium 0.022 0.0010 0.02500 0 89.5 85 115

Sample ID MB-19301 SampType: MBLK TestCode: 200.8 ICPMS Metals:Total

Client ID: PBW Batch ID: 19301 RunNo: 26324

Prep Date: 5/19/2015 Analysis Date: 5/20/2015 SeqNo: 782287 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Selenium ND 0.0010

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

Page 5 of 10

Hall Environmental Analysis Laboratory, Inc.

WO#: **1505544**

10-Jun-15

Client: Animas Environmental Services
Project: San Juan County Stormwater

Sample ID MB-19401 SampType: MBLK TestCode: EPA Method 245.1: Mercury

Client ID: PBW Batch ID: 19401 RunNo: 26454

Prep Date: 5/27/2015 Analysis Date: 5/28/2015 SeqNo: 786366 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Mercury ND 0.00020

Sample ID LCS-19401 SampType: LCS TestCode: EPA Method 245.1: Mercury

Client ID: LCSW Batch ID: 19401 RunNo: 26454

Prep Date: 5/27/2015 Analysis Date: 5/28/2015 SeqNo: 786367 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Mercury 0.0048 0.00020 0.005000 0 95.3 80 120

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

Page 6 of 10

Hall Environmental Analysis Laboratory, Inc.

2.5

0.10

2.500

WO#: **1505544**

10-Jun-15

Client:	Animas Environmental Services		
Project:	San Juan County Stormwater		
Sample ID MB	SampType: MBLK	TestCode: EPA Method 300.0: A	Anions
Client ID: PBW	Batch ID: R26175	RunNo: 26175	
Prep Date:	Analysis Date: 5/13/2015	SeqNo: 776655 Units:	mg/L
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighL	imit %RPD RPDLimit Qual
Nitrogen, Nitrite (As N)	ND 0.10		
Nitrogen, Nitrate (As N)	ND 0.10		
Sample ID LCS	SampType: LCS	TestCode: EPA Method 300.0: A	Anions
Client ID: LCSW	Batch ID: R26175	RunNo: 26175	
Prep Date:	Analysis Date: 5/13/2015	SeqNo: 776656 Units:	mg/L
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighL	imit %RPD RPDLimit Qual
Nitrogen, Nitrite (As N)	1.0 0.10 1.000	0 99.9 90	110
Nitrogen, Nitrate (As N)	2.5 0.10 2.500	0 101 90	110
Sample ID MB	SampType: MBLK	TestCode: EPA Method 300.0: A	Anions
Client ID: PBW	Batch ID: R26175	RunNo: 26175	
Prep Date:	Analysis Date: 5/14/2015	SeqNo: 776767 Units:	mg/L
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighL	imit %RPD RPDLimit Qual
Nitrogen, Nitrite (As N)	ND 0.10		
Nitrogen, Nitrate (As N)	ND 0.10		
Sample ID LCS	SampType: LCS	TestCode: EPA Method 300.0: A	Anions
Client ID: LCSW	Batch ID: R26175	RunNo: 26175	
Prep Date:	Analysis Date: 5/14/2015	SeqNo: 776768 Units:	mg/L
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighL	imit %RPD RPDLimit Qual
Nitrogen, Nitrite (As N)	0.98 0.10 1.000	0 98.2 90	110

Qualifiers:

Nitrogen, Nitrate (As N)

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

98.2

90

110

- P Sample pH Not In Range
- RL Reporting Detection Limit

Page 7 of 10

Hall Environmental Analysis Laboratory, Inc.

WO#: **1505544**

10-Jun-15

Client: Animas Environmental Services
Project: San Juan County Stormwater

Sample ID MB SampType: MBLK TestCode: SM 4500 NH3: Ammonia

Client ID: PBW Batch ID: R26290 RunNo: 26290

Prep Date: Analysis Date: 5/19/2015 SeqNo: 780972 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Ammonia ND 1.0

Sample ID LCS SampType: LCS TestCode: SM 4500 NH3: Ammonia

Client ID: LCSW Batch ID: R26290 RunNo: 26290

Prep Date: Analysis Date: 5/19/2015 SeqNo: 780973 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Ammonia 9.8 1.0 10.00 0 98.0 80 120

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 - P Sample pH Not In Range
- RL Reporting Detection Limit

Page 8 of 10

Hall Environmental Analysis Laboratory, Inc.

WO#: **1505544**

10-Jun-15

Client: Animas Environmental Services
Project: San Juan County Stormwater

Sample ID MB-19363 SampType: MBLK TestCode: SM 4500 Norg C: TKN

Client ID: PBW Batch ID: 19363 RunNo: 26381

Prep Date: 5/22/2015 Analysis Date: 5/24/2015 SeqNo: 783885 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total ND 1.0

Sample ID LCS-19363 SampType: LCS TestCode: SM 4500 Norg C: TKN

Client ID: LCSW Batch ID: 19363 RunNo: 26381

Prep Date: 5/22/2015 Analysis Date: 5/24/2015 SeqNo: 783886 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total 10 1.0 10.00 0 101 80 120

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

Page 9 of 10

Hall Environmental Analysis Laboratory, Inc.

WO#: **1505544**

10-Jun-15

Client: Animas Environmental Services
Project: San Juan County Stormwater

Sample ID MB-19261 SampType: MBLK TestCode: SM 2540D: TSS

Client ID: **PBW** Batch ID: **19261** RunNo: **26256**

Prep Date: 5/15/2015 Analysis Date: 5/18/2015 SeqNo: 779672 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Suspended Solids ND 4.0

Sample ID LCS-19261 SampType: LCS TestCode: SM 2540D: TSS

Client ID: LCSW Batch ID: 19261 RunNo: 26256

Prep Date: 5/15/2015 Analysis Date: 5/18/2015 SeqNo: 779673 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Suspended Solids 91 4.0 91.80 0 99.1 83.99 119.83

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Animas Environmental	Work Order Number:	15055	44		RcptNo: 1	
Received by/date: CM 05/13/15			 ··			
Logged By: Anne Thorne	5/13/2015 7:00:00 AM			anne Am		
Completed By: Anne Thorne	5/13/2015			an Il-		
Reviewed By:	05/13/15				<u></u>	
Chain of Custody						
1. Custody seals intact on sample bottles?		Yes		No 🗆	Not Present 🗹	
2. Is Chain of Custody complete?		Yes	✓	No 🗌	Not Present	
3. How was the sample delivered?		Cour	<u>ier</u>			
<u>Log In</u>						
4. Was an attempt made to cool the sample	s?	Yes	✓	No 🗆	na 🗆	
5. Were all samples received at a temperatu	re of >0° C to 6.0°C	Yes	\checkmark	No 🗌	NA 🗆	
6. Sample(s) in proper container(s)?		Yes	\checkmark	No 🗌		
7. Sufficient sample volume for indicated tes	t(s)?	Yes	✓	No 🗆	cs 05/13/15	
8. Are samples (except VOA and ONG) prop	erly preserved?	Yes		No ☑	62 paleales	
9. Was preservative added to bottles? metals analysis, added In	11 HNO3 to -00	Yes	Tor	acceptable	NA □ PH. Held i) No VOA Vials ☑	Login for 24
10.VOA vials have zero headspace?		Yes			No VOA Vials 🗹	MOUND CS OSIS
11. Were any sample containers received bro	ken?	Yes		No 🗹	# of preserved	
40.5		Yes	•	No 🗆	bottles checked for pH:	<u> </u>
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		163	<u>. </u>		(Z)or	>12 unless noted)
13. Are matrices correctly identified on Chain	of Custody?	Yes		No 🗌	Adjusted? \	les
14. Is it clear what analyses were requested?		Yes		No 🗀	Checked by:	08
15. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes	✓	No ∐		
Special Handling (if applicable)						
16. Was client notified of all discrepancies wi	th this order?	Yes		No 🗆	NA 🔽	
Person Notified:	Date					
By Whom:	Via:	eM	ail 🗀	Phone Fax	☐ In Person	
Regarding:						
Client Instructions:						
17. Additional remarks:			_			-
18. Cooler Information			,			
Cooler No Temp °C Condition		Seal D	ate	Signed By		
1 3.0 Good	Yes					

HALL ENVIRONMENTAL	ANALYSIS LABORATORY	www.hallenvironmental.com	Albuquerque, NM 87109	Fax 505-345-4107	Analysis Request			(N		· A)	səlddu8 riA					Metals: Al, Fe, Zn, Hg, Se. Please call if you have			This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytic																
INVIE	SIS 1	ww.hall	4901 Hawkins NE - /	3975	alysis		- "	∀†9	91	əse	oil and Gres	×	×			⁻g, Se.			acted data																
	ALY	≯	wkins	Tel. 505-345-3975	Ar	_					TSS, Nitrate	×	×			Zn, F			up-contr																
H	A		1 Ha	. 505			porus	dsoy	d I	stol	ТКИ [,] ИНЗ ^{, -}	×	×			Metals: Al, Fe,	2		Anv St																
÷			490	Tel		vole	ed ees b	0747	/0 l	09/	0S08 elsteM	×	×		Remarks	tals: A	<u>}</u>		ssibility																
:20:								- T			COD 410.4	×	×		 Rer		<u>.</u>	·	f this po																
			ormwater				spı		oN 🗆		HEAL No.	100-	702		Date Time	1	Date Time	12 N ST																	
Turn-Around Time:	X Standard Rush Project Name:		San Juan County Stormwater		Project #:																			Stephanie Hinds	ĤS	SH OV Yes ture:	Ittire: 35 Preservative Type	(2) HNO3 (2) H2SO4 (1) HCI (2) Non cool	(2) HNO3 (2) H2SO4 (1) HCI (2) Non cool		404	beh		S d	accredited laboratories
		Project Name:	San Ju	Project #:		Project Manager:	Project Manager:	•	•			Sampler:	On loe:	Sample Temperature:	Container Type and #	(6) 500 mL HDPE (1) 1 L amber glass	(6) 500 mL HDPE (1) 1 L amber glass	; ; ;	Received by:	Mustral	Received by:		e subcontracted to other												
Chain-of-Custody Record	Animas Environmental Services		604 W. Pinon Street	Farmington, NM 87401	2281	shinds@animasenvironmental.com	□ Level 4 (Full Validation)	1			Sample Request ID	Outfall #6	Outfall #5		ed by:	Hopeni Avid	ed by:	11th, Western	sociation of the submitted to Hall Environmental may be subcontracted to other a																
f-Cus	Environn		604 W. P	Farmingt	505-564-2281	shinds@a			□ Other_		Matrix	H20	H20		Relinquished by:	`	Relinquished by:	3	ocean comple																
ain-o	Animas		ress:			#	age:	.: ::		(e)	Time	16:10	16:35		Time:	1746	Time:	1837	le nede																
ပ်	Client:		Mailing Address:		Phone #:	email or Fax#:	QA/QC Package: X Standard	Accreditation:	□ NELAP	□ EDD (Type)	Date	5/12/2015	5/12/2015		Date:	SI/alle	Date:	s/falls	•																

10/9/14 SJC and COF Stormwater Mileage 90319 - 90329 Tacoma 2010 08:00 - 09:00 Bisti Bridge at ad 8:15 (SJC) Outfall # 6 - Good flow (~ 2 efs), very morky, grey, lots of trash downstream Farmington Glade at 8:30 (SJC) Outfall # 5 - Strong flow, dark/clovery Baseball Fields at 8:50 (COF) Oulfull # 11 - Small flow, ~ 0.5 ets, very brown No YSI data. YSIs were being calibrated at time of sampling. Drop off Ecoli samples at OMI = 0.5 hr -TW 243 and Gasanat 536 Mileage 123489 - 12350L Depert AES @ 10:30 10:15, Arrive 10:30. Large ransform ~ 14:30. Waited 30 mmutes for it to pass. Depart 15:45. Arrive AES @ 16:00. W. MI. 10/10/14 TW 243 Returned to site location at 8:15. Re-sampled MW-4 due to runoff from yesterday's stown affecting samples, Sampled TW-243 NW-4 @ 833. 1 al fin Rite in the Rain.

Scale: 1 square =

5/12/15 Stormwites S. 12 == 1	10		0.04.00
5/12/15 Stormwiter Sunglay - STel	-		
Tacoma 2008, MARage 92540,			
Depart AES @ 15:45		YSI #	2
* Arrive SJC out fall # le at 10:00	Ÿ		
(By Bridge of West Side of Bisti Hwy / Broadway Intersection)			
Sampled at 16:10			
YSI readings Temp: 13.74°C			
DO: 16.2 mg/L	3		
Cond: 0.125 ms/am			
рн: 9.32			
DRP: 115.9			
Flow ~ 8 cfs			1 1
Very cloudy, dark brown, some study, no signs of oil or sheen	-		1
muddy, " chocolate brown"			
J. superint aroun			
* Array STC OUTBULL 5 + 11.2 (- 1		
* Arrive STC Outfall # 5 at 16:30 (downstream of Sweetlands) Soupled at 16:35			
95I reading! Texp: 13.32°C			1 1
00: 8.7/	1 1		
Cond: 0,322 ms/cm			4 1
pu: 8.37	1		
ORP: 120.0			
Flow ~ 30 cfs			
Very Muddy, "chocolate Grown", some such / Form, Same debris /	trast o	floating d	oun
ATTNE back at AES at 16:50.			
Mileage = 92543			- 1
			7 7
	Ť		
		1	1
	1		

Scale: 1 square =