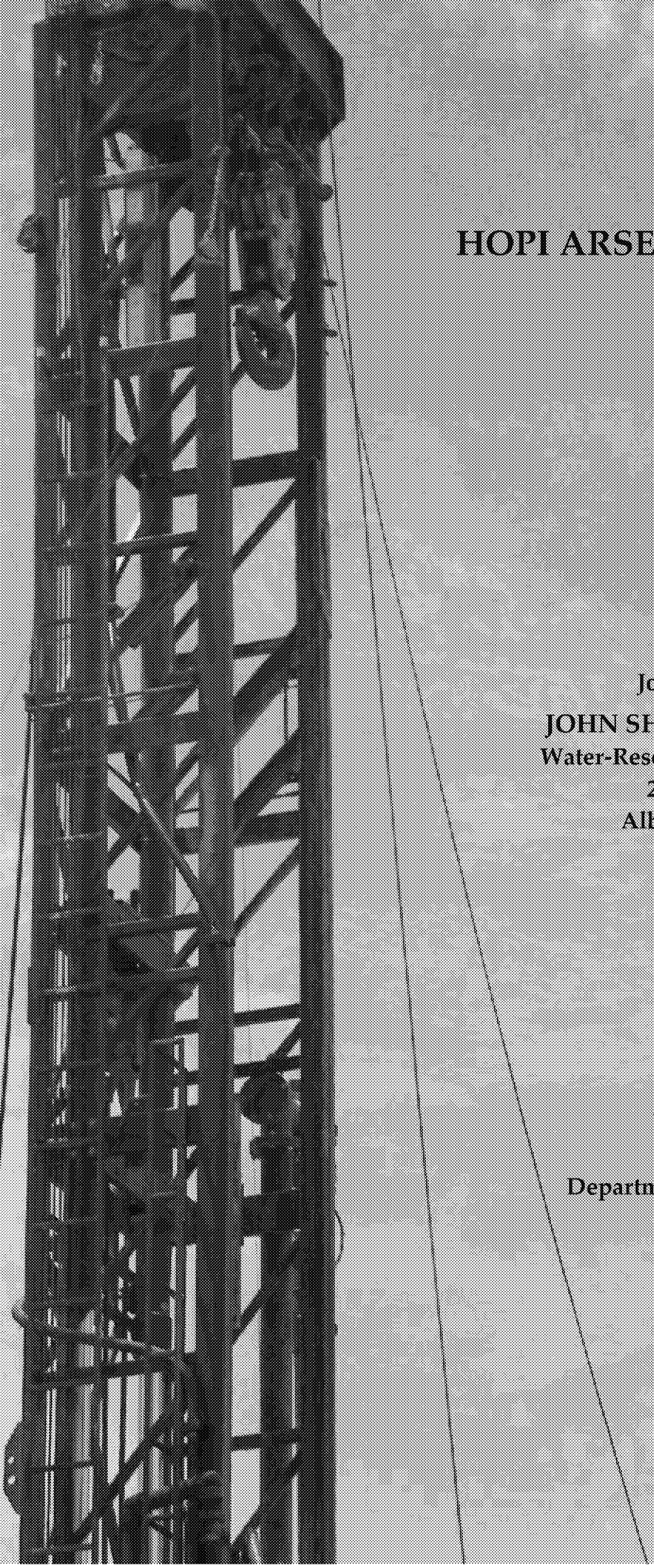

DRAFT

WELL REPORT
HOPI ARSENIC MITIGATION PROJECT
WELL NO. 2
HOPE TRIBE
ARIZONA

prepared by

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prepared for

Bohannan Huston, Inc.
Albuquerque, New Mexico
and
Department of Health and Human Services
Public Health Service
Indian Health Service
Lakeside, Arizona

January 6, 2014

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WELL REPORT
HOPI ARSENIC MITIGATION PROJECT, WELL NO. 2
HOPI TRIBE, ARIZONA

EXECUTIVE SUMMARY

Between June 13 and September 7, 2013, Well No. 2 of the Hopi Arsenic Mitigation Project (HAMP) on Turquoise Trail in the Hopi Tribal lands was completed by Yellow Jacket Drilling Services, Inc. (YJD) of Phoenix, Arizona. John Shomaker & Associates, Inc. (JSAI) provided part-time oversight during well drilling and completion, interpreted pumping-test data, and reviewed laboratory analyses of groundwater quality.

The production well was completed in the N aquifer (Navajo Sandstone) to a total depth of 2,179.7 ft below ground level (bgl) with 12-in. inside-diameter (ID) high-strength low-alloy (HSLA) steel blank casing and 12-in. ID stainless-steel louvered screen. Depth to water was 420 ft. A 1,000-minute constant-rate pumping test was performed at a rate of 300 gallons per minute (gpm) and maximum drawdown of 126.65 ft was recorded. The transmissivity calculated from the drawdown data was 642 ft^2/day, and the transmissivity calculated from the recovery data was 533 ft^2/day. The specific capacity at the end of the test was 2.37 gallons per minute per foot of drawdown (gpm/ft) at 300 gpm. A post-construction video survey results to be entered here.

Laboratory results for constituents listed in the contract documents, including selected organic and inorganic constituents, were all below Environmental Protection Agency (EPA) maximum contaminant levels for the water collected at the end of the constant-rate test, except for pH.

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WELL REPORT
HOPI ARSENIC MITIGATION PROJECT, WELL NO. 2
HOPI TRIBE, ARIZONA

1.0 INTRODUCTION

The Hopi Arsenic Mitigation Project (HAMP) project is a part of the Multi-Agency Tribal Infrastructure Collaborative (MATIC) project that began in 2010. The HAMP portion addresses the need additional water sources as water from certain existing wells that serve the Hopi Tribe exceed the 2006 EPA arsenic standard. To that end, Kennedy/Jenks Consultants was tasked with studying the geology and water resources of the area, and prepared the "Turquoise Trail Hydrogeologic Study" dated August 3, 2011 (Kennedy/Jenks, 2011). Based on Kennedy/Jenks' recommendations, additional wells were proposed to be drilled in the Turquoise Trail area under the HAMP program.

At the location selected for Well No. 2, the pilot borehole reached 2,510 ft below ground level (bgl) on July 21, 2013 to fully penetrate the Navajo sandstone, the principal water-bearing unit of the N aquifer, so that a determination could be made as to whether the water quality would be appropriate for community use.

John Shomaker & Associates, Inc. (JSAI) provided part-time oversight during the drilling and zonal air-lift sampling. Based on the preliminary results of the three zones sampled in the N aquifer and subsequent conversations with representatives of the Indian Health Service (IHS), the decision was made to complete a production well at the site. Yellow Jacket Drilling Services, Inc. (YJD) reamed the borehole, completed and developed the well, and installed a temporary test pump. JSAI evaluated data collected from the well including drill cuttings, geophysical logs, pumping test records, and water quality. Selected photos of the activities on site are included as Appendix 1.

A topographic map showing the location of HAMP Well No. 2 is included as Figure 1, and an aerial photo of the location is included as Figure 2, with the location as listed in Table 1.

Table 1. Well location, HAMP Well No. 2, Hopi Tribe, Arizona

Ex. 9 Wells

NAD83 - North American datum of 1983 ft bgl - feet below ground level

2.0 BOREHOLE DRILLING

A 32-in. diameter borehole was drilled to a depth of 40 ft bgl and 20-in. diameter mild-steel conductor casing, with a 0.25-in. wall thickness, was installed in the borehole and cemented in place. The pilot borehole for HAMP Well No. 2 was drilled to a diameter of 12-1/4-in., with a total logged depth of 2,494 ft bgl. A lithologic description of the drill cuttings from the pilot borehole is provided in Appendix 2. Geophysical logs of the pilot borehole were completed by Southwest Exploration Services on July 21, 2013. These included short- and long-normal resistivity, single-point resistivity, spontaneous potential (SP), natural gamma-ray, dual-guard resistivity, sonic, and caliper logs. Copies of the geophysical logs are included as Appendix 3.

The geology encountered in the subsurface began in the Cretaceous-age Mesaverde Group and continued through Cretaceous- and Jurassic-age units into the Kayenta Formation. Table 2 lists the geologic units and the depths to the tops below.

Table 2. Tops of geologic units, HAMP Well No. 2, Hopi Tribe, Arizona

unit	depth to top, ft bgl
Cretaceous	
Mancos Shale	350
Dakota Sandstone	890
Jurassic	
Entrada Sandstone	976
Carmel Formation	1,590
Navajo Sandstone	1,670
Kayenta Formation	2,170

ft bgl - feet below ground level

The Mesaverde Group at this location was characterized by tan and gray fine-grained sandstones, and included coal bearing beds. The Mancos Shale was gray to black and had a thickness of 540 ft. The Dakota Sandstone was fine-grained and gray overall with some silts and clays and minor coals. The thickness of the Dakota Sandstone in this location was 86 ft. The Dakota is the uppermost unit of the D-aquifer and is used locally as a shallow water source.

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The Entrada Sandstone was observed as very silty to clayey in this location and gray to brown in color, and was 614 ft thick. The Carmel Formation was observed as predominately silt with some sand and clay, and mostly reddish-brown to gray in color. The Carmel was estimated to be 80 ft thick. Water-bearing sandstones beds in the Entrada and Carmel are also considered parts of the D-aquifer. The Navajo Sandstone was a silty, fine grained sandstone, brown in color, and is the uppermost unit of the N aquifer. The Navajo was found to be about 500 ft thick. The underlying Kayenta Formation was brown in this location and characterized as siltstone and claystone with some fine-grained sand. The full thickness of the Kayenta was not penetrated.

The pilot borehole was drilled to 2,510 ft bgl to fully penetrate the Navajo Sandstone and the portion of the N aquifer contained therein. The cuttings and geophysical logs indicate the pilot borehole extended 340 ft beyond the bottom of the Navajo Sandstone into the Kayenta Formation, but the cuttings and logs indicated that the Kayenta would have low permeability and not yield a significant amount of water to the well.

3.0 ZONAL AIR LIFT SAMPLING

After reviewing the lithologic description of the cuttings and comparing them with the geophysical logs, one zone in the D-aquifer and three zones in the Navajo sandstone within the N aquifer were targeted to be sampled by means of temporary zonal air lifting according to the technical specifications. Diagrams of the four temporary zones constructed for sampling the formation waters are included as Appendix 4. Table 3 lists the depths of the zones sampled and the corresponding aquifers.

Table 3. Depths of temporary zones sampled for water quality with corresponding aquifer designations, HAMP Well No. 2, Hopi Tribe, Arizona

zone depth	targeted aquifer	zone name
980 to 1,034	D-aquifer, Dakota Sandstone	Z1,006
1,681 to 1,727	N-aquifer, top of Navajo Sandstone	Z1,706
1,820 to 1,864	N-aquifer, middle of Navajo Sandstone	Z1,845
2,031 to 2,081	N-aquifer, near bottom of Navajo Sandstone	Z2,056

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Each zone was constructed with a 10-ft bottom seal, then 50 ft of temporary filter gravel surrounding the air-lift tool which was suspended on the bottom of drill pipe, with a minimum 10-ft clay seal above it. Zones were tested from deepest to shallowest. The air lifting was performed for a minimum of 12 hours in each zone, or longer as needed to air-lift pump the drilling fluid from the temporary well-completion and produce relatively clean formation water. This was determined by water clarity and by the stability of specific-conductance measurements. Table 4 lists the field parameters for each zone air lifted.

Table 4. Field results for temporary zones sampled for water quality, HAMP Well No. 2, Hopi Tribe, Arizona

zone name	number of hours air-lifted	water clarity	starting specific conductance, µS/cm	ending specific conductance, µS/cm
Z1,006	12	cloudy	944	2,490
Z1,706	12	hazy	771	406
Z1,845	22	slightly cloudy	1,213	399
Z2,056	31	hazy	1,985	382

µS - microSiemens per centimeter

Due to cost and length of time for turn-around of the results from the laboratory, only the arsenic results were rushed and were generally available 2 to 3 days later. The full results took up to 2 months to be received. Copies of the water-quality laboratory results of all four zones and the production well are included in Appendix 5. An abbreviated list of the laboratory water-quality results for each of the zones is shown in Table 5. The gross alpha activity in Zone Z1,006 was close to the primary drinking water standard, but this zone is in the D-aquifer and was not screened in the completed well. No other constituents analyzed exceeded EPA primary standards for maximum contaminant level (MCL) in the zonal sampling. Aluminum, color and iron, secondary-standard MCLs that were exceeded in the N-aquifer samples are attributed to residual drilling fluid constituents in the temporary zones. The fluoride and total dissolved solid (TDS) levels in Z1,006 that exceed the secondary standards are typical of the D-aquifer water quality in the region. The high pH levels in the zones are also characteristic to the region. Microorganisms were detected in the zone sampling, however these samples were taken before any chlorination or permanent well construction occurred.

Table 5. Summary of water-quality data from samples collected during zonal sampling, HAMP Well No. 2, Hopi Tribe, Arizona

constituent	units	Zone Z1,006 D-aquifer	Zone Z1,706 Upper N-aquifer	Zone Z1,845 Middle N-aquifer	Zone Z2,056 Lower N-aquifer	EPA MCL standard
date sampled		8/8/2013	8/5/2013	8/4/2013	7/28/2013	
microorganisms as total coliforms	MPN	>23.0	>23.0	>23.0	present	
alkalinity as $CaCO_3$	mg/L	680	190	186	165	
aluminum	mg/L	**11.3 sec**	<2.0 sec	**7.35 sec**	**7.30 sec**	0.05 to 0.2 sec
arsenic	mg/L	0.0029	0.0041	0.0048	0.0046	0.010
calcium	mg/L	20	43	26	8	---
chloride	mg/L	173	<5.0	<5.0	8.8	250
color	color units	**150 sec**	**35 sec**	**100 sec**	**30 sec**	15 sec
copper	mg/L	0.01	0.04	0.02	<0.01	1.3
fluoride	mg/L	**5.30 sec**	0.16	0.18	0.18	2.0
total hardness as $CaCO_3$	mg/L	50	107	81	21	
iron	mg/L	**13.5 sec**	<0.50 sec	**5.17 sec**	**3.02 sec**	0.3 sec
magnesium	mg/L	5	1	4	1	---
odor	T.O.N.	<1	<1	<1	<1	3
pH		**9.2 sec**	**9.1 sec**	**9.2 sec**	**9.1 sec**	6.5 to 8.5 sec
total silica	mg/L	63.3	27.4	54.9	70.3	---
silver	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	0.10
sodium	mg/L	527	307	94	85	---
thallium	mg/L	<0.0005	<0.0005	<0.0005	<0.0005	0.0005
total dissolved solids	mg/L	**1,390 sec**	315	431	264	500 sec
total organic carbon	mg/L	23.7	<1.00	<1.00	<1.00	---
zinc	mg/L	0.05	0.07	0.04	0.02	5
combined radium	pCi/L	0.5 ± 0.1	1.6 ± 0.2	1.8 ± 0.3	<0.6	5
gross alpha activity	pCi/L	13.3 ± 2.6	4.3 ± 1.0	5.7 ± 1.1	4.0 ± 1.0	15
radium 226 activity	pCi/L	0.5 ± 0.1	0.7 ± 0.1	1.0 ± 0.2	<0.4	---
radium 228 activity	mg/L	<0.8	0.9 ± 0.2	0.8 ± 0.2	<0.6	---

cfu/ml - bacterial colony forming units per milliliter
MCL - maximum contaminant level
MPN - Most Probable Number
NTU - nephelometric turbidity units
sec - secondary or aesthetic EPA standard
bold font indicates parameter exceeded MCL level for that constituent

EPA - U.S. Environmental Protection Agency
mg/L - milligrams per liter
mrem/yr - millirems per year
pCi/L - picoCuries per liter
T.O.N - Threshold Odor Number

4.0 BOREHOLE REAMING AND WELL COMPLETION

After the preliminary laboratory results for arsenic levels in each of the four air-lift sample zones were reviewed and found to be within EPA drinking water standards, the borehole was enlarged by reaming to 18-in. diameter, using a combination of bits, hole-openers and reamers, so that a production well would be completed and screened through the Navajo Sandstone portion of the N-aquifer.

Reaming began on August 9 and concluded September 7, 2013. The total depth of the reamed borehole was 2,195 ft bgl, approximately 25 ft into the Kayenta Formation. On September 8, 2013, a three-arm caliper log was run, to determine the final diameter and hole volume, and the results are given in Appendix 3. Well construction began immediately following.

The production casing was landed by YJD on September 11, 2013. The well was completed with 12-in. inside diameter (ID), 0.312-in. wall-thickness, high-strength low-alloy (HSLA) steel blank casing, and stainless-steel screen, to a total depth of 2,179.7 ft bgl. The screen section consisted of 12-in. Roscoe-Moss wire-wrapped Type 304 stainless-steel screen with a 0.050-in. slot-opening. The screen was installed from 1,694.1 to 2,174.2 ft bgl. The placement of the screen section was determined based on the data collected from the pilot borehole before reaming began. A 5-ft-long section of blank stainless-steel casing was placed as a sump from 2,174.2 to 2,179.7 ft bgl, and the bottom of the casing was closed with a stainless-steel end cap. The annulus around the casing was filled with 8-12 gradation Carmeuse silica sand filter pack material from total depth back to 1,686 ft bgl. Next, a fine-grained sand cap was placed from 1,669 to 1,686 ft bgl to prevent bentonite seal material from moving downward into the filter pack. Then a bentonite seal was placed in the annulus from 1,659 to 1,669 ft bgl, and finally pozzolan cement grout was placed from 1,659 ft bgl to near ground surface. Additional cement has yet to be placed, to fill the annulus completely, as of the time of this writing. The as-built well diagram is presented as Figure 3.

5.0 WELL DEVELOPMENT

Well development was performed to remove fine-grained material from the annulus, settle the gravel pack, and repair damage to the formation caused by residual drilling fluid from the drilling process. The well was developed by air-lift swabbing, sand-pump bailing and pumping with a temporary submersible pump. Air-lift development was performed with the drill rig from September 14 through 19, 2013 for a total of 95.5 hours, with a swab and air-lift tool on the dual wall drill pipe raised and lowered throughout the entire screen zone while air-lifting.

Short step-drawdown and constant-rate tests were performed on September 22 and 23, 2013 to provide preliminary information as to well performance. The step-drawdown test indicated high well efficiency, and at the end of 500 minutes of pumping at an average of 309 gpm during the constant-rate test, specific capacity was 2.03 gpm per foot of drawdown. The well continued to develop after those tests, and specific capacity at the end of 500 minutes of pumping at 300 gpm during the formal constant-rate test of November 27 (see below) was 2.45 gpm per foot. Apparent transmissivity based on the slope of the recovery plots increased from 472 ft^2/day to 533 ft^2/day (see discussion below).

Development by bailing was performed September 25, 2013 with a sand-pump type bailer. The well was clear to total depth. Development by pumping was performed for 105.6 hours between October 31 and November 23, 2013 and consisted of pumping the well at rates ranging from 150 to 350 gallons per minute (gpm) for various time periods. The pump was turned off for selected time periods to help generate a surging of water in the well and through the gravel pack to promote well development. At the end of development, the water produced from the well was clear and contained little sediment.

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6.0 STEP-DRAWDOWN AND CONSTANT-RATE PUMPING TESTS

The YJD performed formal step-drawdown and constant-rate pumping tests of HAMP Well No. 2, between November 25 and 27, 2013. JSAI provided part-time oversight during the testing and interpreted the pumping test results. Data were collected by YJD at 1-minute intervals using a pressure transducer and data logger.

The step-drawdown pumping test was performed on November 25, 2013. The pre-pumping water level was 420.42 ft bgl. The test consisted of pumping the well for 100 minutes at each of the following rates: 151, 201, 250 and 300 gpm. Recovery measurements were collected upon completion of the pumping period. A plot of the step-drawdown data is provided as Figure 4.

The primary reasons for performing a step-drawdown test were to evaluate the completeness of well development, to assess well efficiency, and to help determine an appropriate rate for performing a constant rate pumping test. The drawdowns at a range of pumping rates can be extrapolated to higher pumping rates that might be used at the production well. Drawdown and specific-capacity estimates are included in Table 6. The specific capacity is a measure of the productivity of the well in terms of discharge rate and drawdown. The specific capacity of the well is relatively high as compared with other N-aquifer wells in the area (reference??).

A plot of specific capacity versus pumping rate is shown as Figure 5. The specific capacity at the projected zero-pumping-rate intercept, which would represent the condition without well losses, provides one approach to evaluation of well efficiency. The ratio of the observed short-term specific capacity at each pumping rate to the projected specific capacity at a pumping rate of zero indicates that efficiency ranges from about 90 percent at 150 gpm to about 80 percent at 300 gpm. The plot may be extrapolated to estimate specific capacity, and therefore drawdown, at somewhat higher pumping rates.

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Table 6. Summary of step-drawdown pumping test, HAMP Well No. 2, Hopi Tribe, Arizona

step number	average pumping rate, Q, for 100 minutes, gpm	maximum drawdown during each step, s, ft	specific capacity (Q/s), gpm/ft
starting water level = 420.42 ft bgl			
1	151	49.95	3.02
2	201	70.61	2.85
3	250	89.85	2.78
4	300	112.27	2.67

gpm - gallons per minute
gpm/ft - gallon per minute per foot of drawdown
ft bgl - feet below ground level

Sand production was monitored during development pumping and during the step test, as described below.

YJD performed a constant-rate pumping test on November 26 and 27, 2013. The well had not been pumped for 1,460 minutes (slightly more than 24 hours) prior to beginning the test. The constant-rate pumping test was performed at an average rate of 300 gpm for 1,000 minutes. The pumping rate, as measured with a standard orifice-plate (3-in. orifice in 4-in. discharge pipe) and manometer, varied from 296 gpm to 301 gpm during the test, a range of about 1.7 percent. The water level in the well prior to starting the test was 420.32 ft bgl. Maximum drawdown at the end of the test was 126.65 ft, with a corresponding specific capacity of 2.37 gpm per foot of drawdown.

Sand production was monitored during development pumping and pumping tests using a Rossum Sand Tester. At the beginning of development pumping, sand rates over 700 ppm in 15 minutes were observed during times when loose fine-grained sediments were being produced from the formation. Gradually over the course of pumping and surging the sand rate dropped such that at the end of development pumping the sand rate was 9 ppm the first 20 minutes, and 11 ppm at the end of the final pumping round at 150 minutes. During the step test the sand-production rate was 7 ppm for the first 20 minutes and 6 ppm at the end of the test at 400 minutes. During the constant-rate test the sand rate was 21 ppm over the first 20 minutes, and 2.4 ppm at the end of the test at 1,000 minutes. It is probable that sand production will decrease further over time.

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Drawdown and recovery data were plotted, and the data were analyzed using the Cooper-Jacob (1946) "straight-line" method. A transmissivity of 642 ft^2/day was calculated from the drawdown curve, and a transmissivity of 533 ft^2/day was calculated from the recovery curve. Table 3 summarizes the constant-rate pumping test information, and a semi-logarithmic plot of the drawdown and recovery curves is presented as Figure 6. Water samples were collected after 960 minutes of pumping, and submitted to Legend Technical Services, Inc. for analysis of selected parameters (copy of lab report included as Appendix 5).

The transmissivity based on the late recovery data, 533 ft^2/day, is probably representative of the Navajo Sandstone itself, and the somewhat higher value derived from the drawdown plot, (and the gradual flattening of the plot) probably reflects leakage from above and below the Navajo in response to the lowered head in the aquifer during pumping.

A theoretical specific capacity of the well based on the transmissivity calculated from the recovery data, a storage coefficient estimated as 10^{-6} times the thickness of the aquifer in feet, a well-radius of 9 in. (the nominal radius of the reamed borehole), and the pumping time, calculated using the rearranged Theis equation, would be 2.328 gpm per foot of drawdown. The fact that the observed specific capacity at 300 gpm, at 2.37 gpm/ft, is slightly higher than the theoretical value, probably is also attributable to some leakage into the aquifer from adjoining beds.

The long-term decline in water level attributable to continued production pumping can be estimated by extrapolation of the drawdown plot if there are no significant hydrologic boundary conditions. The literature suggests that, apart from a general increase in transmissivity from east to west in the Navajo Sandstone, attributable to a gradual increase in saturated thickness, no important boundary condition in the aquifer is to be expected within a number of miles of the well. Such an extrapolation would, of course, be based on an average pumping rate rather than the instantaneous rate during pumping periods, and would not account for drawdown due to pumping from other wells tapping the aquifer. For example, a projection of the test itself, pumping at a constant 300 gpm (484 acre-feet per year), would lead to a pumping level of about 605 ft after 40 years.

The additional drawdown that would be caused by pumping from a similar well completed in the N-aquifer, if the hydraulic properties of the aquifer are the same and assuming the same 300-gpm constant pumping rate, would be about 62 ft after 40 years if the well were 1 mile away, and about 50 ft if the well were 2 miles away, as calculated using the Theis equation (Theis, 1935). If the average pumping rate were more or less than 300 gpm constant, the effects would be proportional to the pumping rate.

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Table 7. Summary of 1,000-minute constant-rate pumping test, HAMP Well No. 2, Hopi Tribe, Arizona

pumping test rate, gpm	starting water level, ft bgl	ending water level, ft bgl	total drawdown, ft	specific capacity (Q/s), gpm/ft	transmissivity, drawdown plot, ft^2/day	transmissivity, recovery plot, ft^2/day
300	420.32	546.97	112.65	2.37	642	533

gpm - gallons per minute
ft bgl - feet below ground level
gpm/ft - gallons per minute per foot of drawdown

7.0 POST-CONSTRUCTION VIDEO INSPECTION

On Month x, 2014, Southwest Exploration performed a gyroscopic survey and a post-construction video inspection of the well to assess the well's condition. A copy of the DVD are included as Appendix 6. Random side scans of the blank casing joints and screen sections showed casing joint welds that were results here. Screen and blank intervals were present where they were expected according to well completion documents, and the casing appeared to be in xxx condition. Above the screen at xxx ft bgl, the water column was xxx. Below the top of the screen the water column was xxx and welds were xxxxxxx.

The video survey logged a water level of about xxx.x ft bgl. The video survey tagged fill within the sump, at a total depth of xxx ft bgl, indicating about x ft of fill in the sump. An initial stick-up of x.x ft above ground level was indicated on the displayed depth of the video survey.

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8.0 WATER QUALITY

Based on the parameters analyzed by the laboratory of the final samples collected near the end of the constant-rate test, water produced from the well is of generally good quality. A copy of the complete laboratory report for HAMP Well No. 2 is included in Appendix 5. The groundwater at the site is a sodium bicarbonate water type. The arsenic concentration was 0.0047 milligrams per liter (mg/L), and is well below the U.S. Environmental Protection Agency (EPA) primary drinking water standard of 0.010 mg/L. Water produced from the well had non-detectable concentrations of purgeable organics as determined by EPA method 524, non-detectable concentrations of selected synthetic organic chemicals regulated in public drinking water systems (various EPA methods), disinfection by-products, and non-detectable concentrations of polychlorinated dibenzodioxins and polychlorinated dibenzofurans as determined by high-resolution mass spectrometry.

Concentrations of all other water-quality parameters analyzed including metals, anions, total coliform (after a disinfection treatment), turbidity, and asbestos among others were below EPA maximum contaminant levels. However, the pH measured at Well No. 2 after the constant-rate test was 9.7. This level exceeds the U.S. EPA national secondary drinking water regulation water-quality standards. High pH results are common for the aquifers in this area. Users may notice the water feels slippery or has a soda taste; and there is the possibility of deposits forming. A summary of the results is listed in Table 8.

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Table 8. Summary of laboratory water-quality data from completed well, November 27, 2013, HAMP Well No. 2, Hopi Tribe, Arizona

constituent	units	concentration	EPA MCL standard
microorganisms as total coliforms	MPN	Absent	
alkalinity as $CaCO_3$	mg/L	163	
aluminum	mg/L	<0.20	0.05 to 0.2
arsenic	mg/L	0.0047	0.010
calcium	mg/L	<1	---
chloride	mg/L	<5	250
color	color units	<1	15
copper	mg/L	<0.01	1.3
fluoride	mg/L	0.15	2.0
total hardness as $CaCO_3$	mg/L	<4	
iron	mg/L	<0.05	0.3
magnesium	mg/L	<1	---
odor	T.O.N.	<1	3
pH		**9.7 sec**	6.5 to 8.5
total silica	mg/L	27.0	---
silver	mg/L	<0.0001	0.10
sodium	mg/L	82	---
thallium	mg/L	<0.0005	0.0005
total dissolved solids	mg/L	167	500
total organic carbon	mg/L	<1.00	---
zinc	mg/L	<0.02	5
combined radium	pCi/L	<0.4	5
gross alpha activity	pCi/L	0.9 ± 0.5	15
radium 226 activity	pCi/L	<0.3	---
radium 228 activity	mg/L	<0.4	---

cfu/ml - bacterial colonies per milliliter
MCL - maximum contaminant level
MPN - Most Probable Number
NTU - nephelometric turbidity units
sec - secondary or aesthetic EPA standard
EPA - U.S. Environmental Protection Agency
mg/L - milligrams per liter
mrem/yr - millirems per year
pCi/L - picoCuries per liter
T.O.N - Threshold Odor Number
bold font indicates the parameter exceeded the MCL level for that constituent

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9.0 RECOMMENDATIONS

During the pumping tests, the well was pumped at a maximum rate of about 350 gpm. Although JSAI's recommendation is for a pumping rate of up to 350 gpm, short-term pumping rates somewhat greater than 350 gpm may be sustained to meet emergency peak demand. Once the well is equipped and in use, we recommend that pumping and non-pumping water levels be collected quarterly, including the pumping rate at the time of the pumping water-level measurement. This will facilitate identification and remedying of problems that may occur over time.

Pumping from the N-aquifer in the area of HAMP Well No. 2 is essentially the same as groundwater mining, in that no increase in recharge (other than leakage from adjoining strata) is induced, and there is no stream connection. There is some leakage into the Navajo Sandstone from adjoining beds, and the leakage ameliorates drawdowns to some degree. Regional water-level decline attributable to historical pumping can be evaluated based on the records of water levels in the nearby BM-5 well (USGS 360055110304001) about 2.3 miles to the west-southwest, and the NTUA Hard Rock No. 1 well (USGS 360309110301301) about 2.7 miles to the northwest. The record of the BM-5 well indicates a decline rate of about 2.7 ft per year from 2005 through 2008, and an essentially constant level since then. The record of the NTUA Hard Rock well is fragmentary, but a worst-case estimate would be an overall decline of about 3.3 ft per year from 1996 to late 2004, when the record ends. A regional drawdown rate of 3.0 ft per year seems reasonable, although pumping from other wells may increase over time and cause a more rapid water-level decline.

Estimates of future pumping water levels given in Table 9 are based on the current non-pumping depth to water of 420 ft; a short-term (100-minute) specific capacity, primarily reflecting well losses, based on the results of the November step-drawdown test (Fig. 6); the transmissivity estimated from the November constant-rate test (533 ft^2/day); a storage coefficient of 4.8×10^{-4} derived from the typical fully confined specific storage value and the thickness of the aquifer open to the well; and a regional drawdown rate of 3.0 ft per year. The estimates, based on the Theis equation, do not account for leakage or variation in aquifer properties from place to place. The deepest predicted pumping water level, at 790 ft, represents about 29 percent of the total available drawdown above the top of the well screen.

ED_005149_00023261-00021

Recognizing the uncertainties in the calculations, the pump setting depth should be substantially greater than the predicted pumping water level given in Table 9 for any particular rate.

Table 9. Summary of long-term pumping level estimates, HAMP Well No. 2, Hopi Tribe, Arizona

pumping rate, constant, gpm	starting water level, ft	100-min specific capacity, gpm/ft	100-min drawdown, ft	5 years			40 years		
				regional drawdown, ft	additional drawdown after 100 min, ft	pumping water level, ft	regional drawdown, ft	additional drawdown after 100 min, ft	pumping water level, ft
175	420	2.94	60	15	55	550	120	65	665
200	420	2.89	69	15	62	566	120	74	683
250	420	2.77	90	15	74	599	120	89	719
300	420	2.66	113	15	84	632	120	101	754
350	420	2.55	137	15	92	664	120	113	790

ft bgl - feet below ground level
gpm - gallons per minute

ED_005149_00023261-00022

10.0 REFERENCES

Cooper, H.H., and Jacob, C.E., 1946, A generalized graphical method for evaluating formation constants and summarizing well field history: American Geophysical Union Transactions, v. 27, pp. 526-534.

Kennedy/Jenks Consultants, 2011, Turquoise Trail Hydrogeologic Study: consultant's report prepared for U.S. Public Health Service.

[EPA] Environmental Protection Agency, 2013, website accessed September through December, 2013: http://water.epa.gov/drink/

MATIC, 2013, Power Point presentation: http://www.epa.gov/tp/trprograms/multi-agency-tribal-infrastructure-collaborative-presentation-16MAY12.pdf.

Theis, C.V., 1935, The relation between the lowering of the piezometric surface and the rate and duration of discharge of a well using groundwater storage: American Geophysical Union Transactions, v. 16, pp. 519-524.

ILLUSTRATIONS

ED_005149_00023261-00024

Ex. 9 Wells

Ex. 9 Wells

Ex. 9 Wells

Ex. 9 Wells

Ex. 9 Wells

Ex. 9 Wells

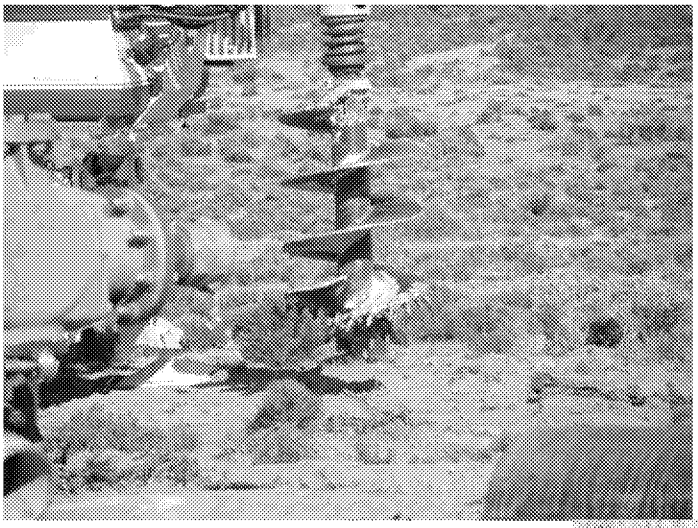
APPENDICES

ED_005149_00023261-00031

Appendix 1.

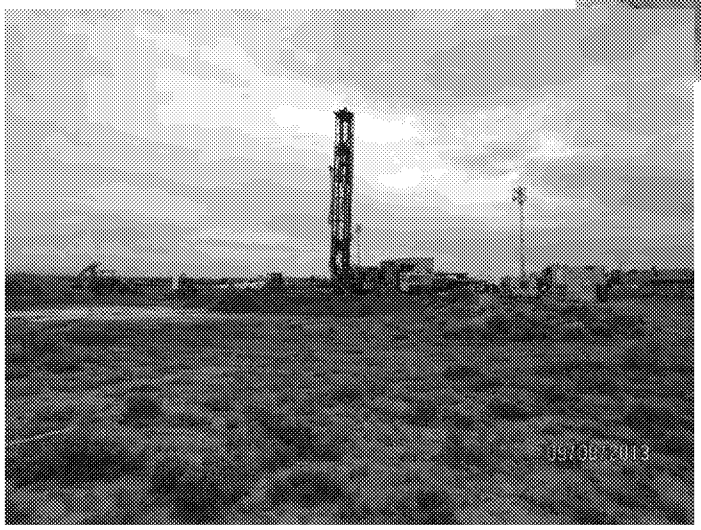
Selected photos of project activities,
HAMP Well No. 2, Hopi Tribe, Arizona

ED_005149_00023261-00032

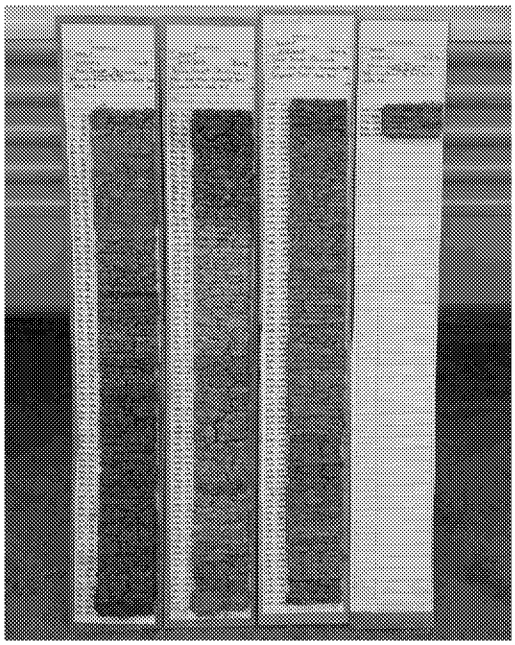


Conductor casing drilling start.

Conductor casing installation.



Project site.

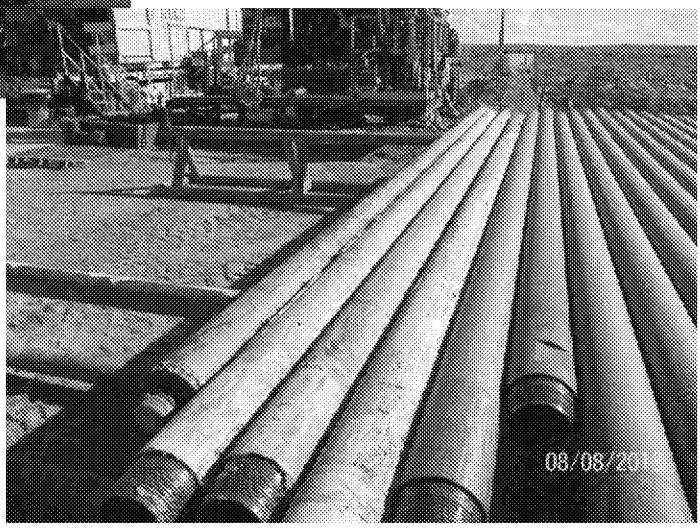


Chipboards.

Bit 2 out after TD.

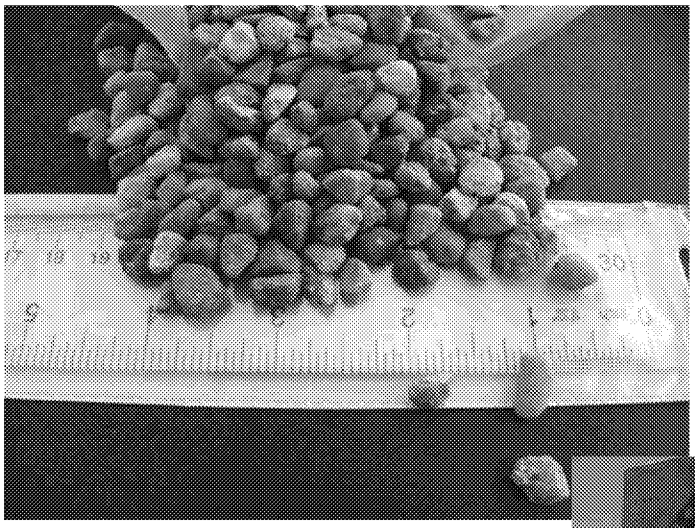
Mill-tooth bit 7-19-2013.

Geophysical logging.

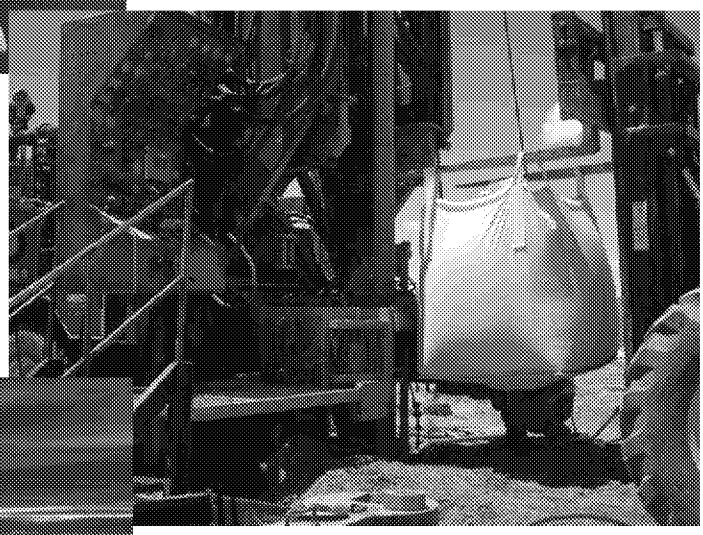


Zone sampling tool.

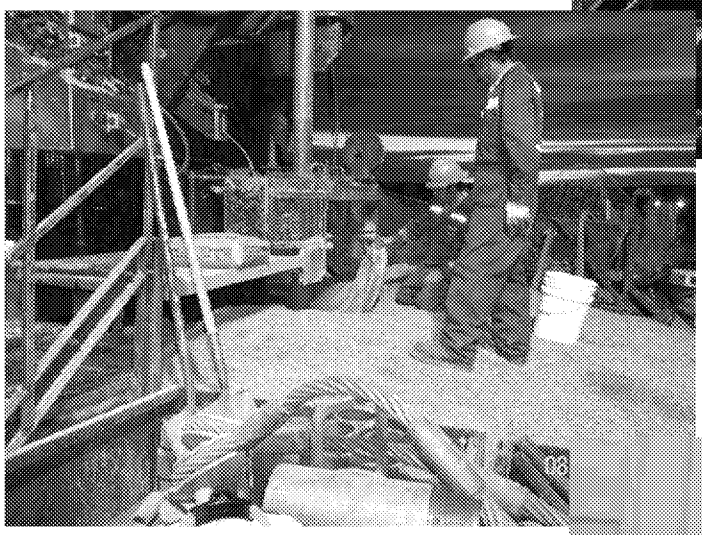
ED_005149_00023261-00034



Zone install filter gravel.



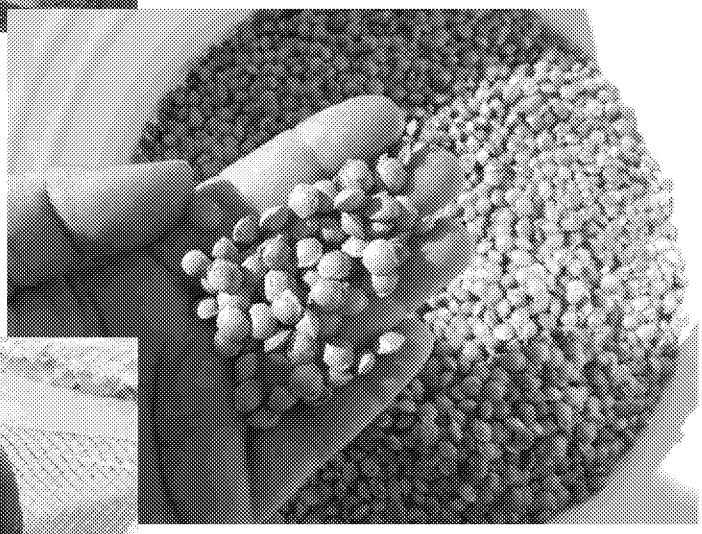
Pea gravel in super sack.



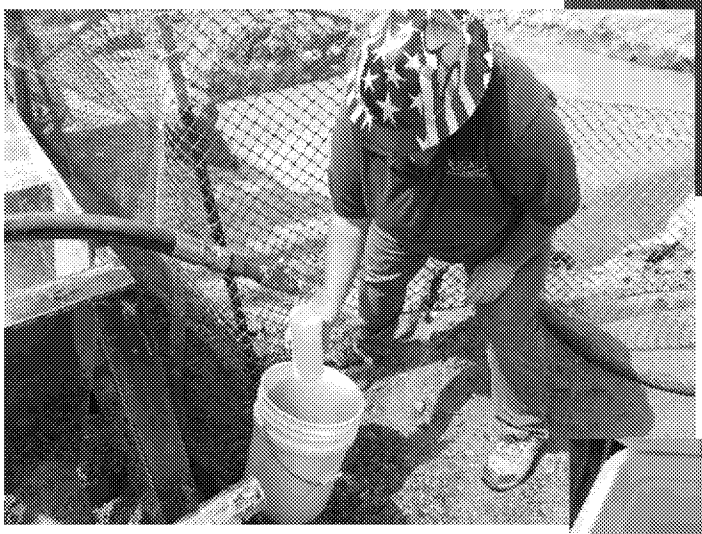
Zone install fine sand.

Zone air lifting.

Zone install seal.



Pel plug.



Zone sampling.

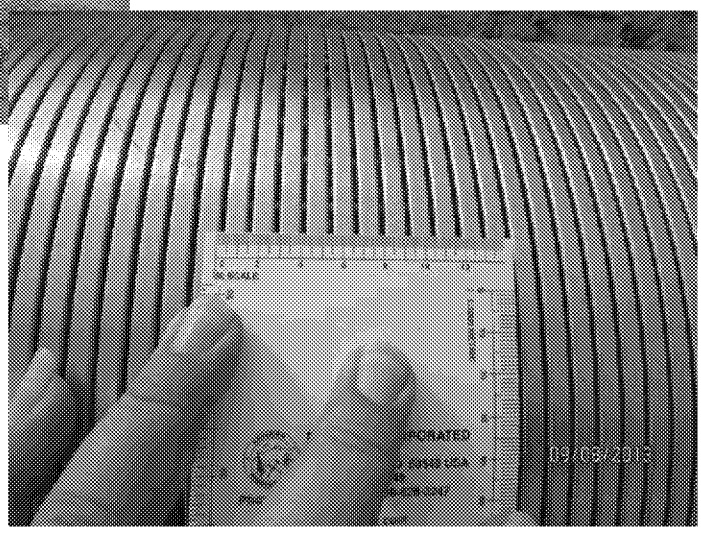
Zone sampling-bottles.

ED_005149_00023261-00036

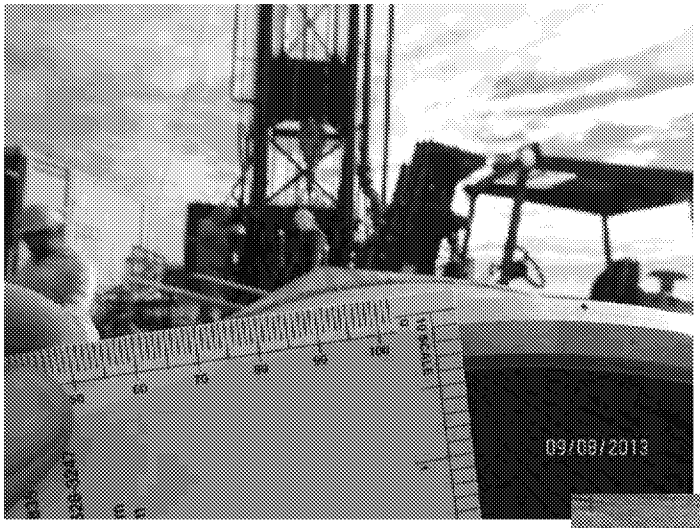
A-ream hole openers.

B-ream hole kit.

Ream cal 1.

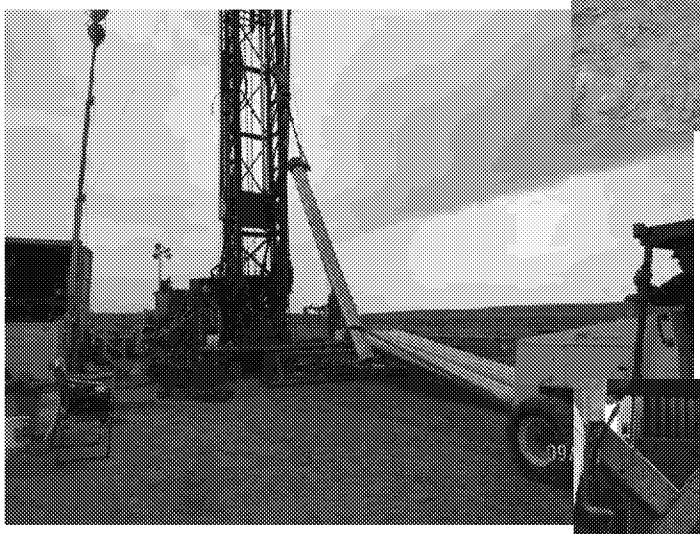


Wire wrap slot size.

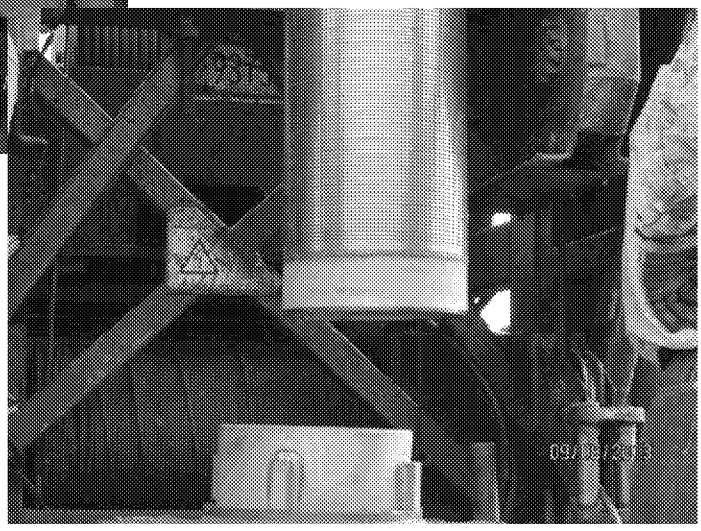


Wire wrap thickness.

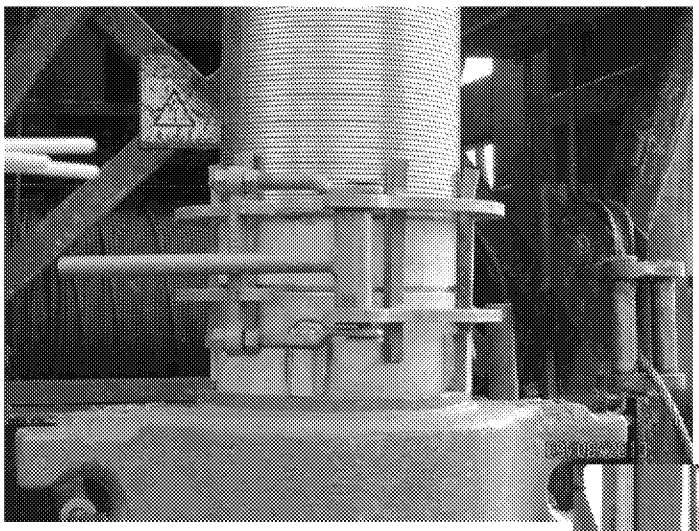
Sump and end.



Raising joint.



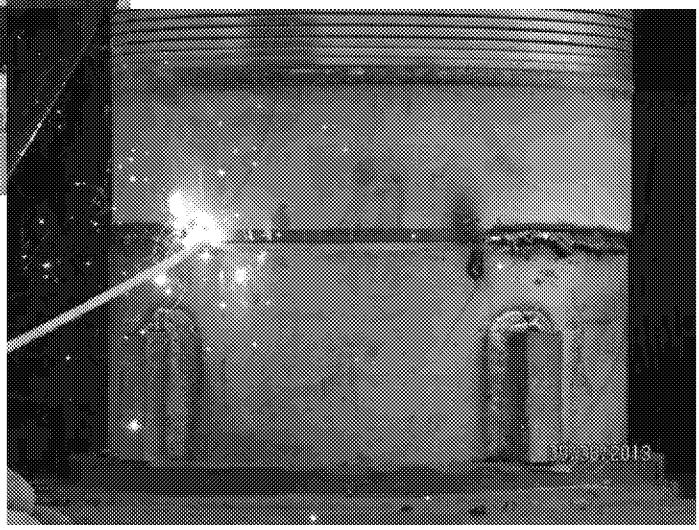
Screen to sump.



Casing clamp.

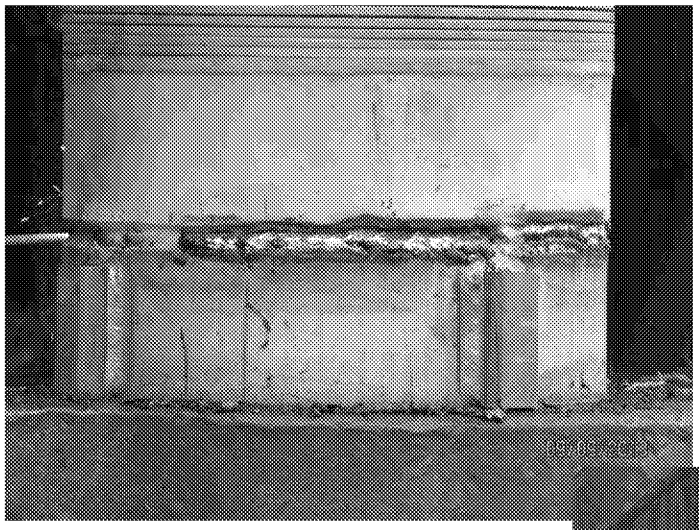
Check plumbness.

Tack the joint.

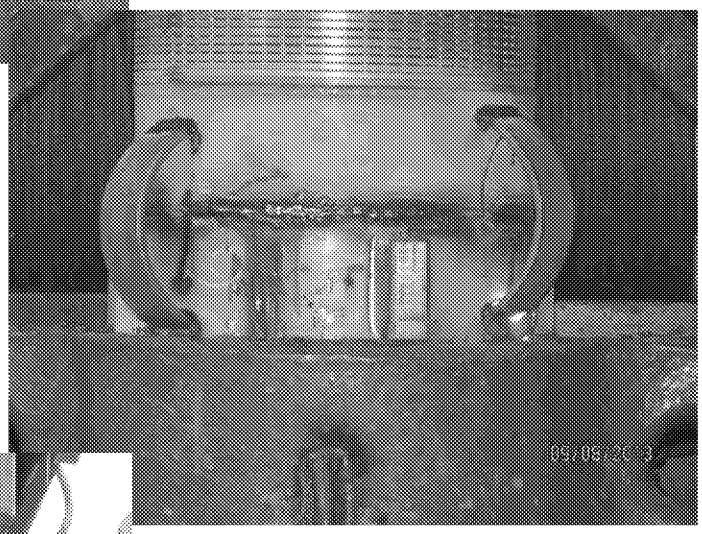


Weld the joint.

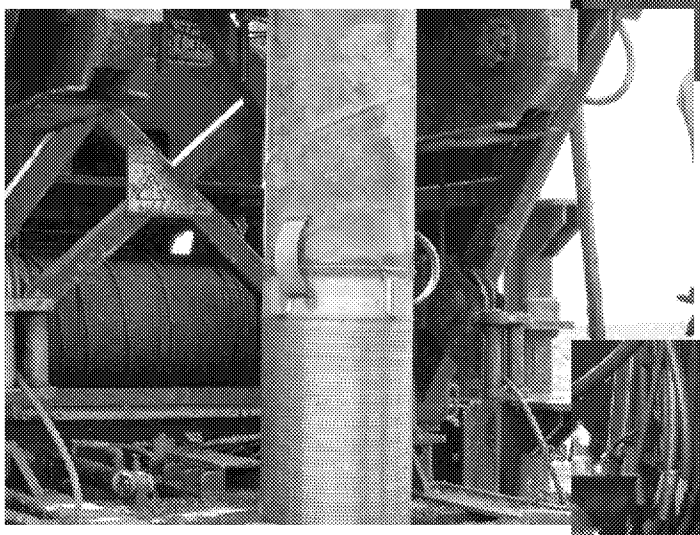
ED_005149_00023261-00039



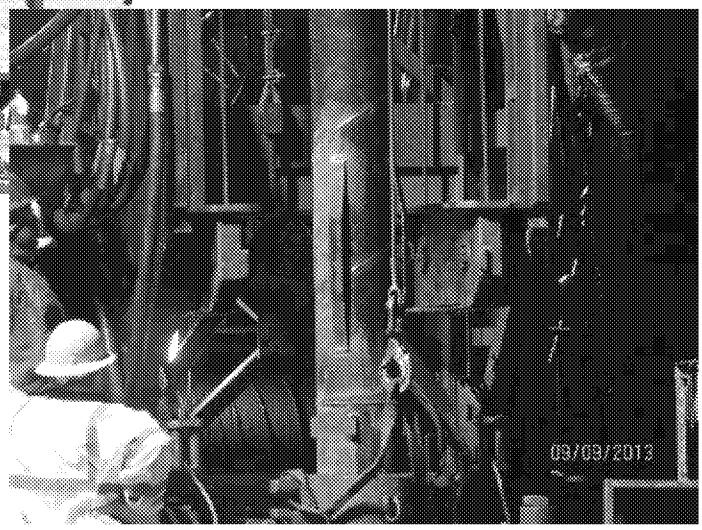
Weld.



Tacking on centralizers to the screen.



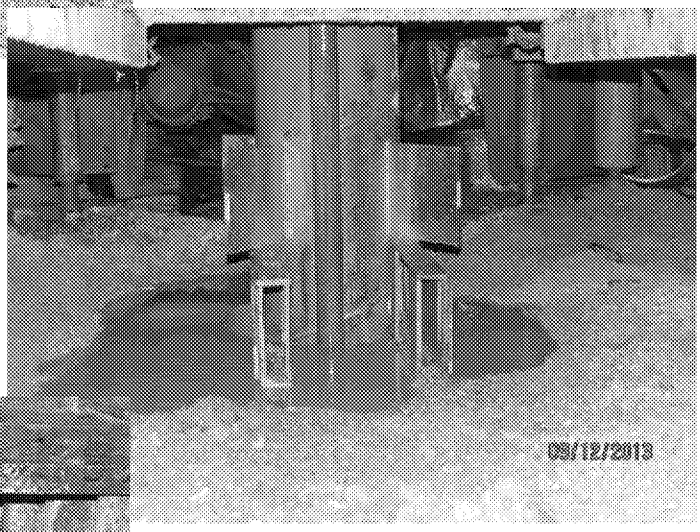
Blank to screen.



Tacking on centralizers to the blank.

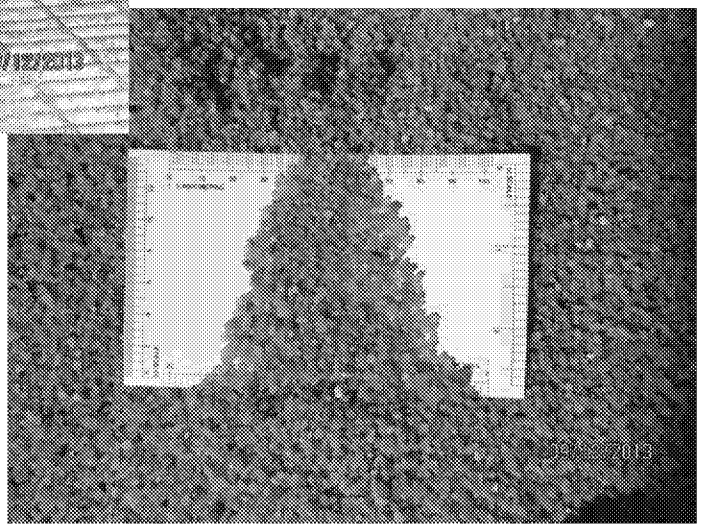
ED_005149_00023261-00040

Landing the casing.



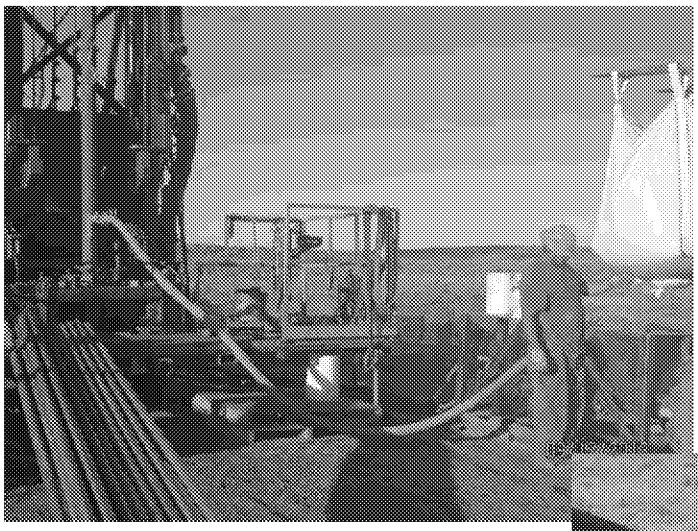
Production and conductor casings.

Stickup.



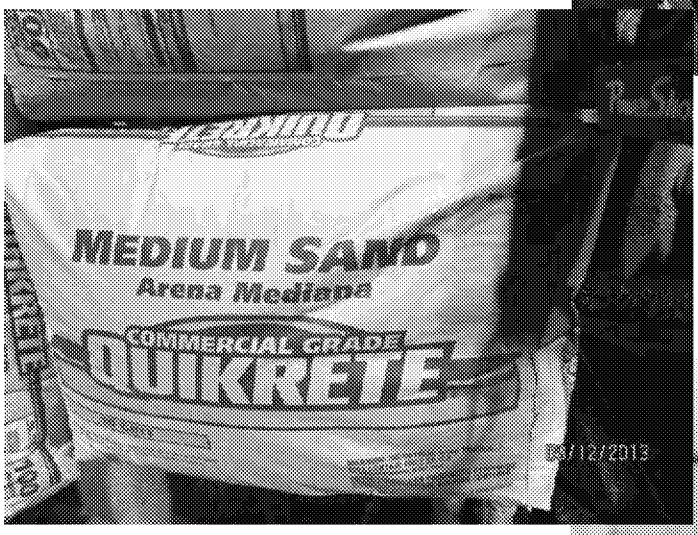
Colorado Silica Sand.

ED_005149_00023261-00041



Gravel pack install.

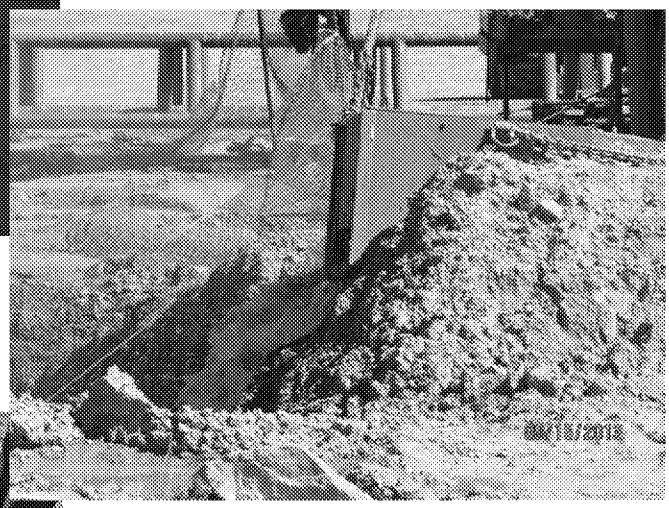
Chlorine.



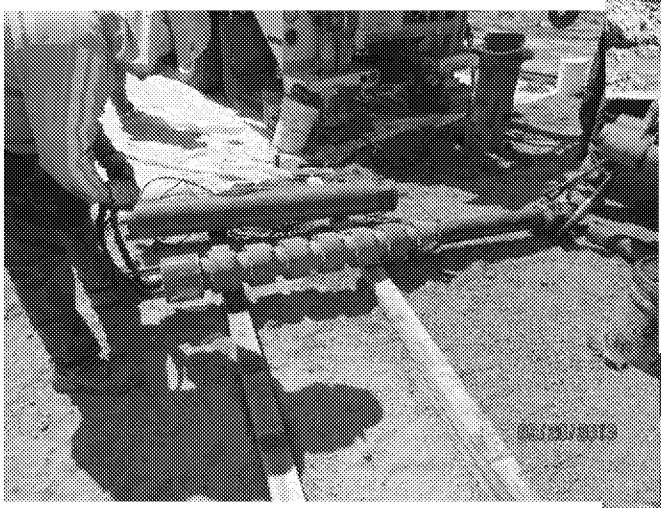
Fine sand cap.

Pel plug seal.

Swab air-lift development tool.

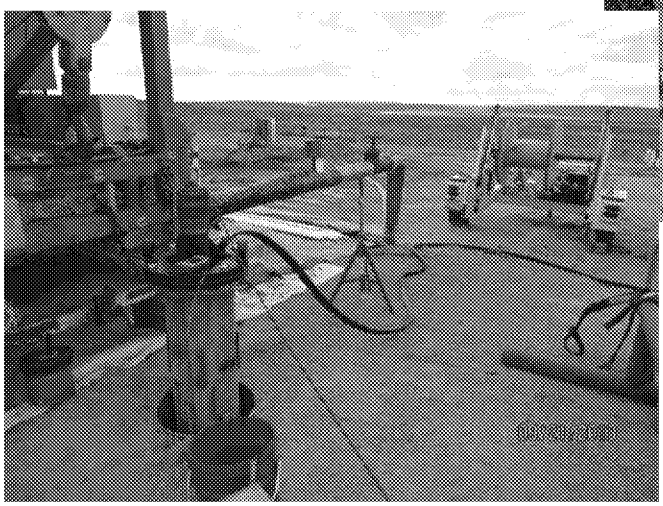


Water produced during swab air-lift development.



Temporary pump.

Installing temporary pump.



Above ground plumbing.

Appendix 2.

Lithologic descriptions of the drill cuttings and photographs of chipboards, HAMP Well No. 2, Hopi Tribe, Arizona

ED_005149_00023261-00044

Ex. 9 Wells

Ex. 9 Wells

Ex. 9 Wells

Ex. 9 Wells

Ex. 9 Wells

Ex. 9 Wells

Ex. 9 Wells

Ex. 9 Wells

Ex. 9 Wells

Ex. 9 Wells

Ex. 9 Wells

Ex. 9 Wells

Ex. 9 Wells

ED_005149_00023261-00057

Ex. 9 Wells

Appendix 3.

Copies of geophysical logs,
HAMP Well No. 2, Hopi Tribe, Arizona

ED_005149_00023261-00059

Copy of geophysical logs for pilot borehole,
HAMP Well No. 2, Hopi Tribe

ED_005149_00023261-00060

Southwest Exploration Services, LLC

borehole geophysics & video services

COMPANY	PHS/IHS
WELL ID	TURQUOISE TRAIL WELL #2
FIELD	TURQUOISE TRAIL
COUNTY	NAVAJO STATE ARIZONA

TYPE OF LOGS: E-LOGS, NAT. GAMMA
MORE: GUARD RESISTIVITY

LOCATION

SEC TWP RGE

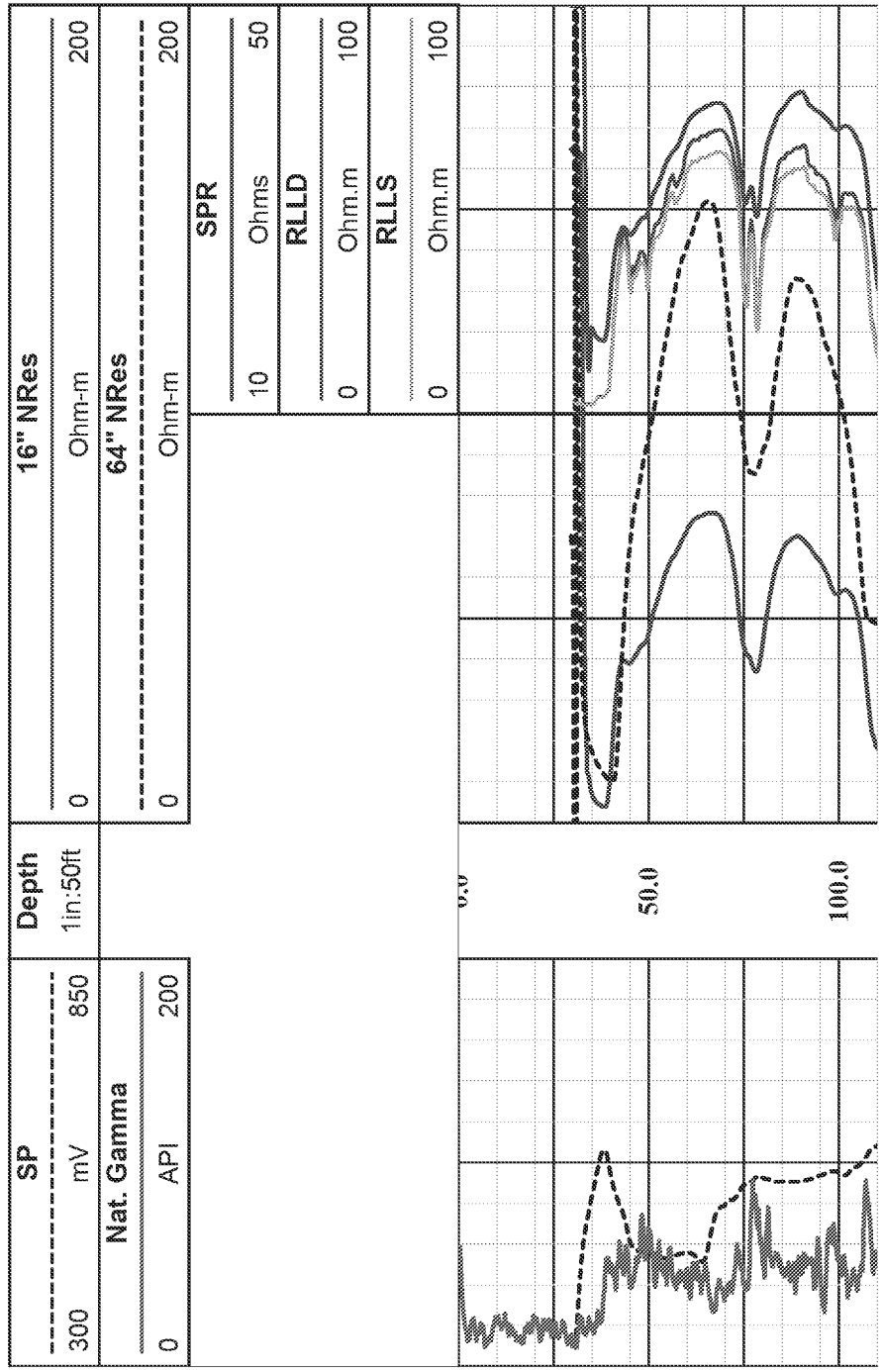
OTHER SERVICES
CALIPER
SONIC

PERMANENT DATUM		ELEVATION	K.B. 4 FEET
LOG MEAS. FROM	GROUND LEVEL	ABOVE PERM. DATUM	D.F.
DRILLING MEAS. FROM			G.L. ZERO

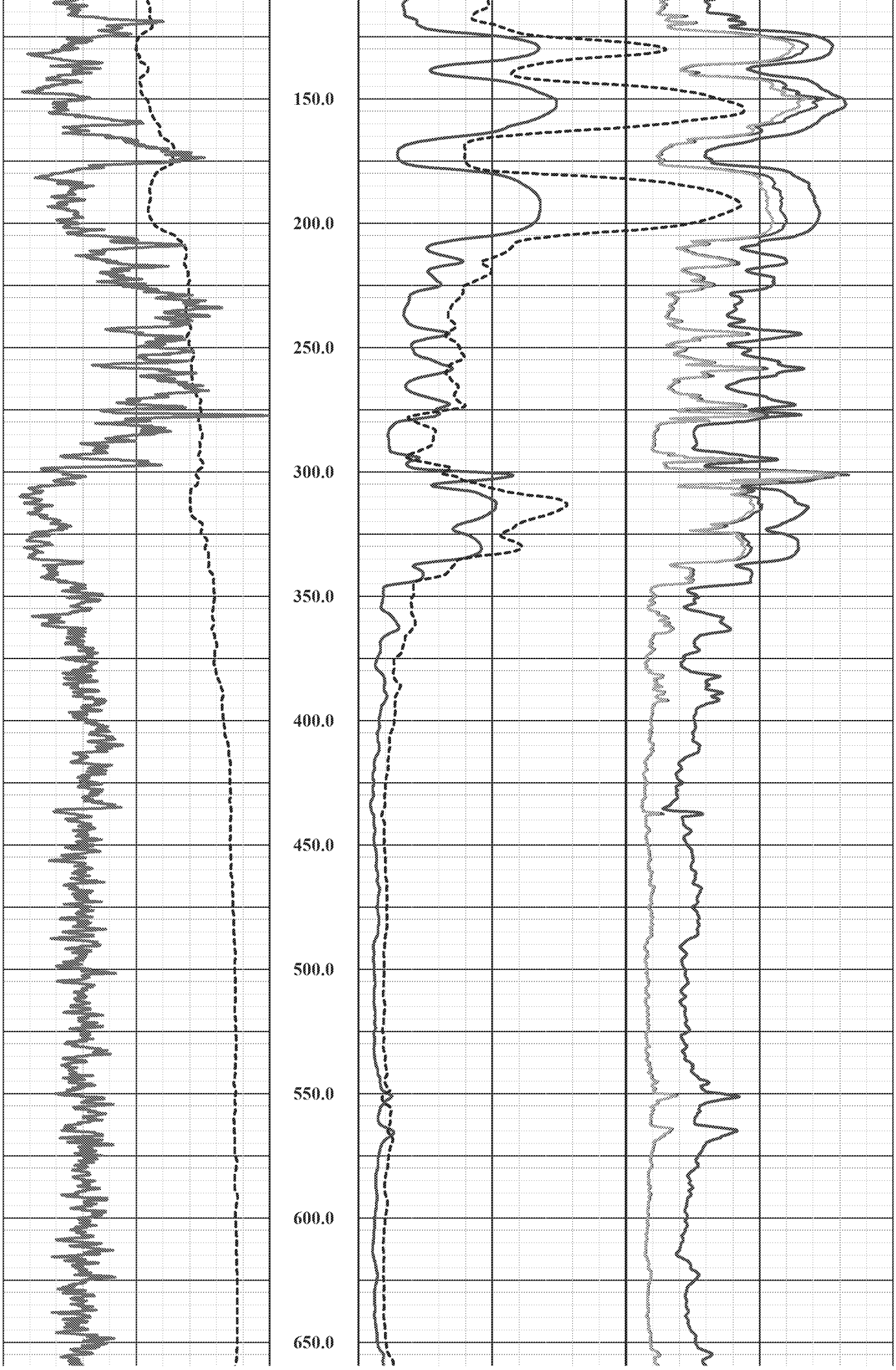
DATE	7-21-13	TYPE FLUID IN HOLE	FRESH MUD
RUN No	1	SALINITY	N/A
TYPE LOG	ELOGS, GAMMA, GUARD	DENSITY	N/A
DEPTH-DRILLER	2510 FT	LEVEL	FULL
DEPTH-LOGGER	2499 FT	MAX. REC. TEMP.	N/A
BTM LOGGED INTERVAL	2499 FT	IMAGE ORIENTED TO:	N/A
TOP LOGGED INTERVAL	SURFACE	SAMPLE INTERVAL	0.2 FT
DRILLER / RIG#	YELLOW JACKET	LOGGING TRUCK	TRUCK #750
RECORDED BY / Logging Eng.	S. STROUD	TOOL STRING/SN	40GRP SN 5514, DLL3 DGRD
WITNESSED BY	JSAI- SHERRY	LOG TIME:ON SITE/OFF SITE	1630

RUN	BOREHOLE RECORD			CASING RECORD			
NO.	BIT	FROM	TO	SIZE	WGT.	FROM	TO
1	?	SURFACE	40 FT	20 IN		SURFACE	40 FT
2	12 1/2 IN	40 FT	TOTAL DEPTH				

COMMENTS:



ED_005149_00023261-00061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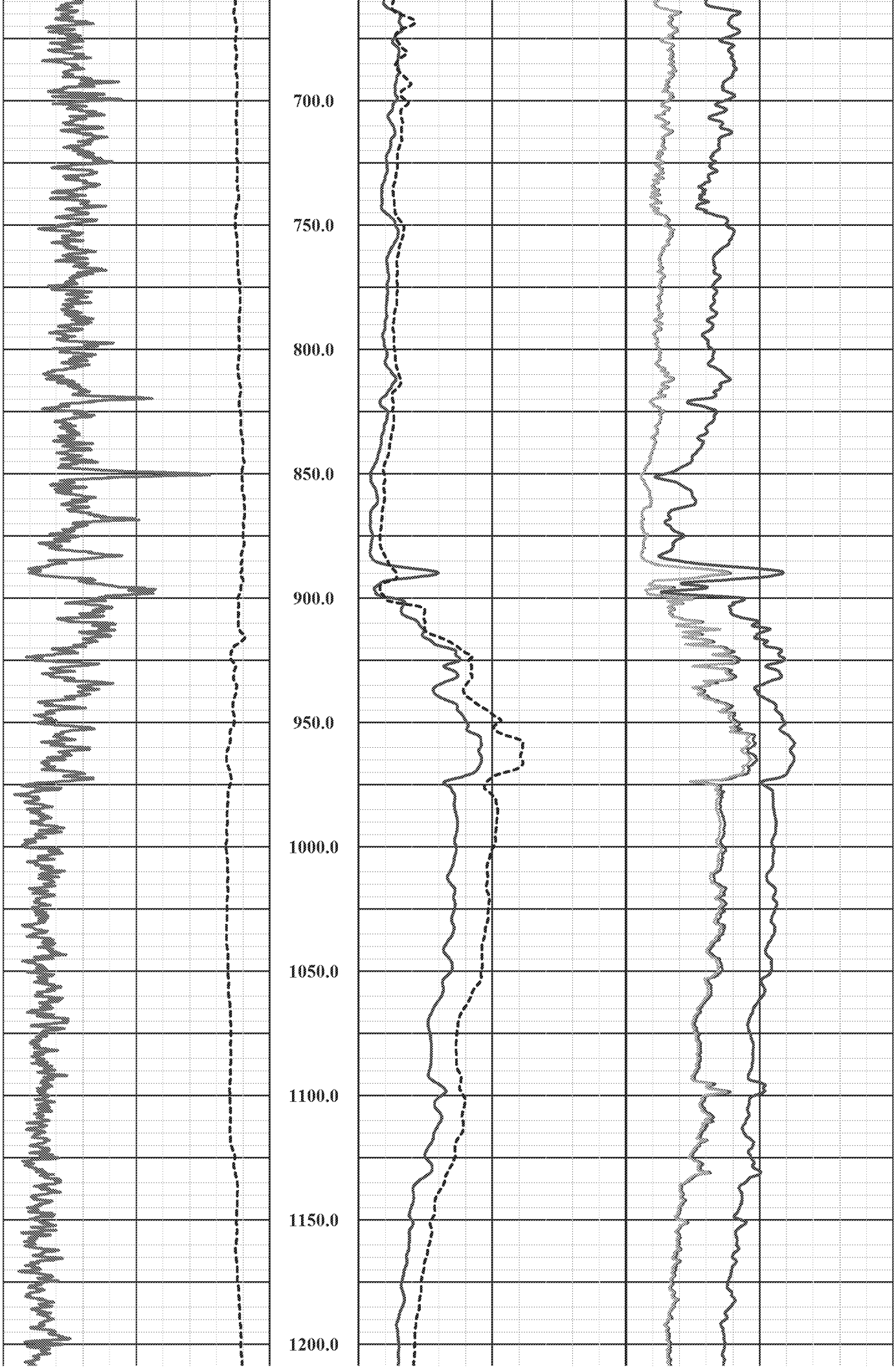
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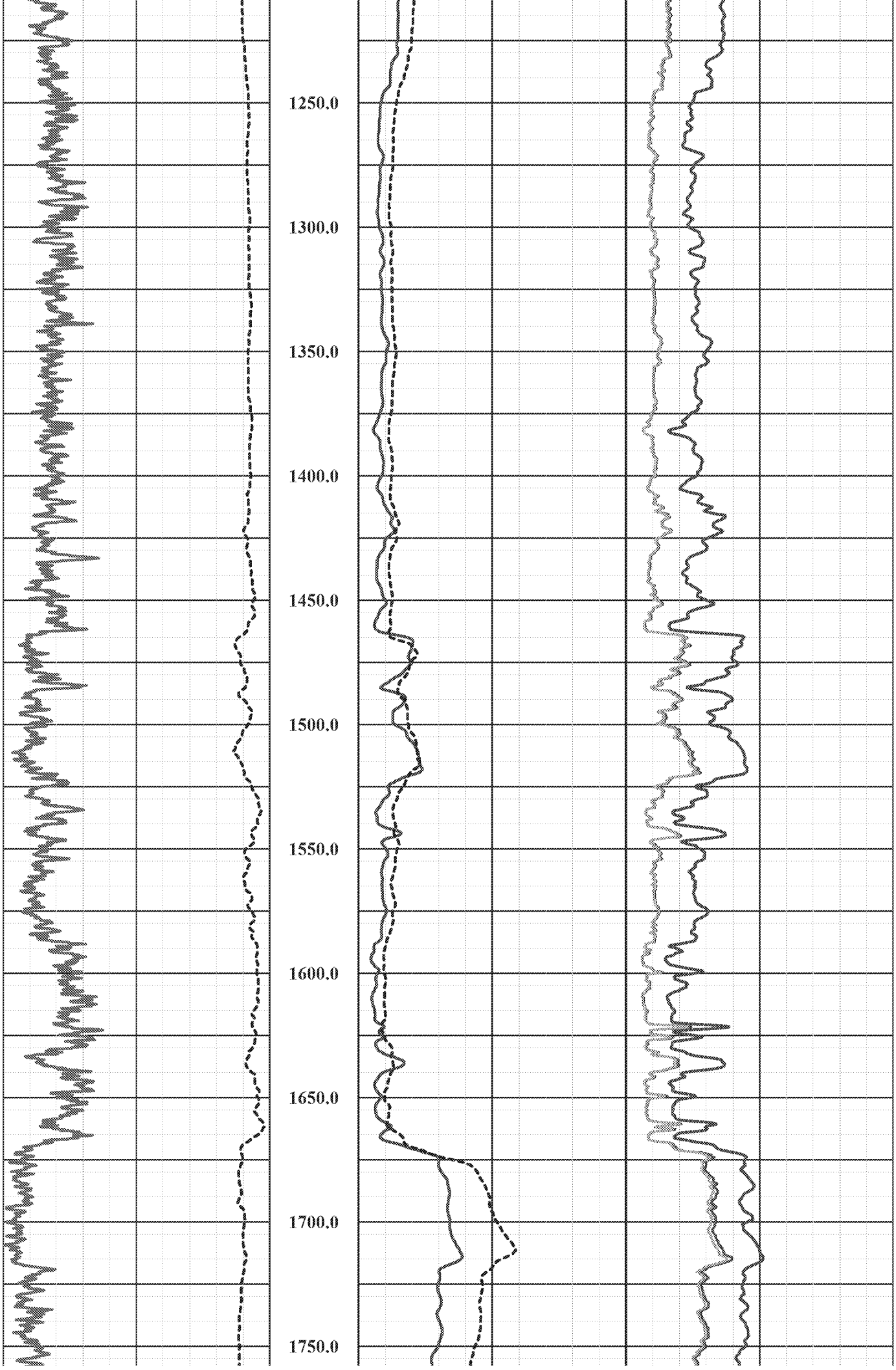
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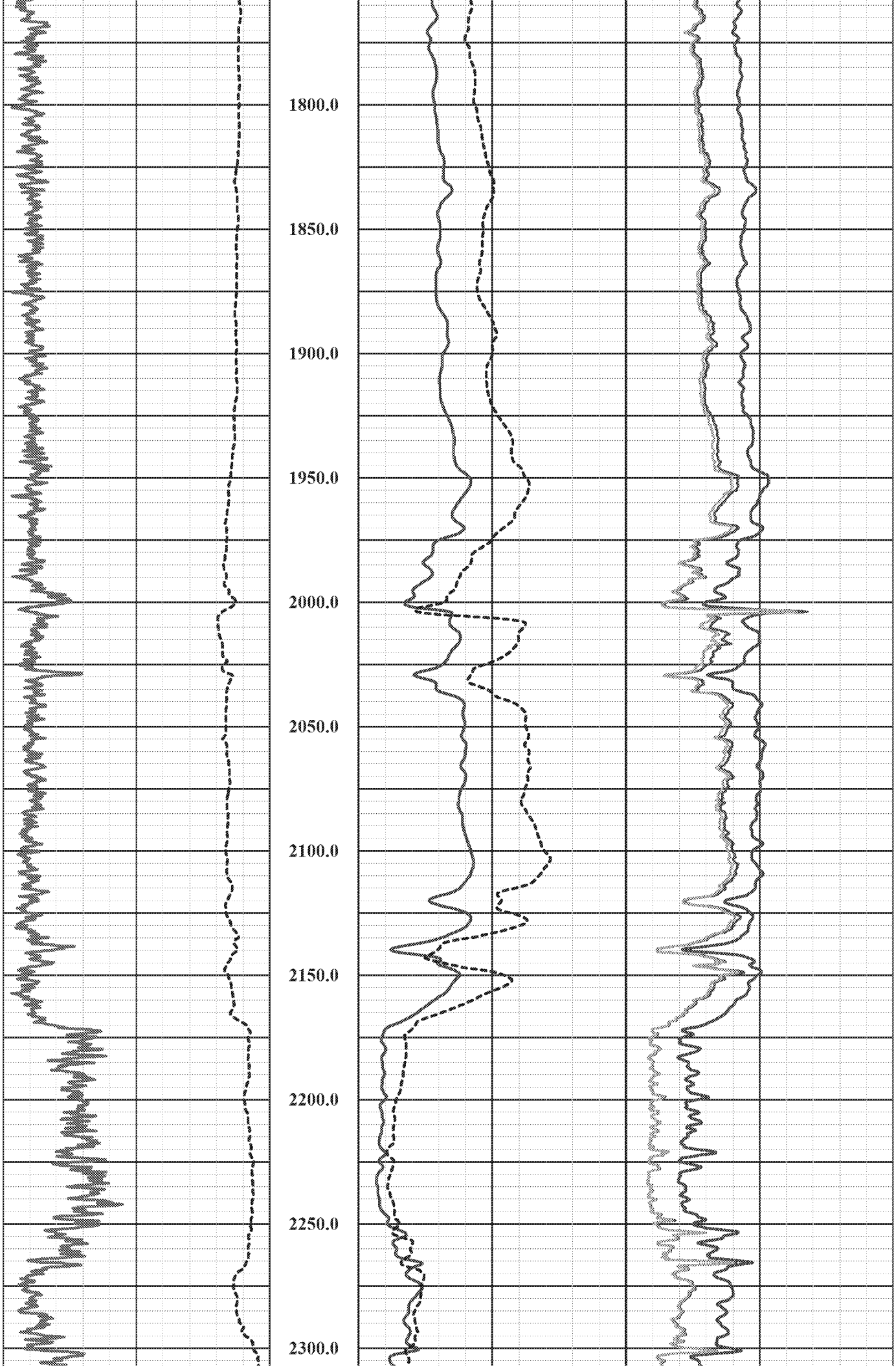
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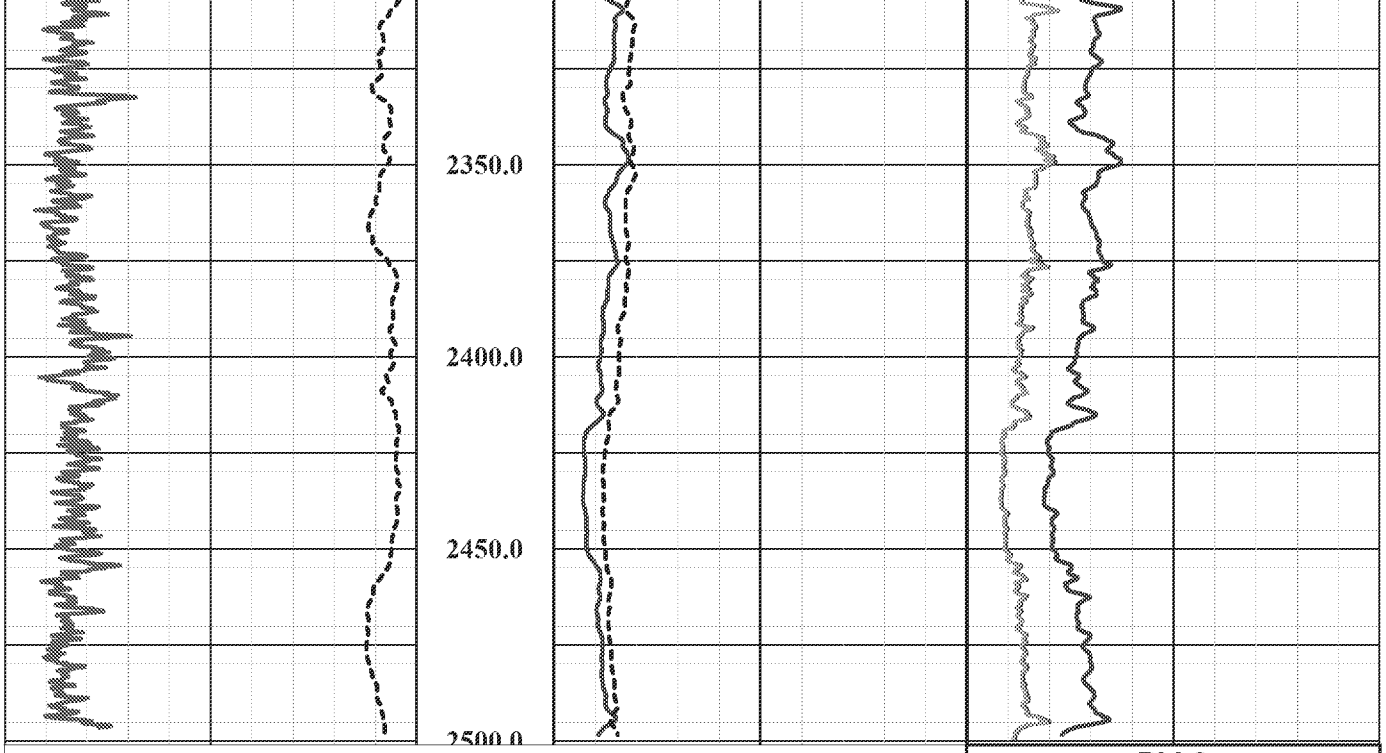


RLLS		
0	Ohm.m	100

RLLD		
0	Ohm.m	100

SPR		
10	Ohms	50

Nat. Gamma		
0	API	200

SP		
300	mV	850

Depth
1in:50ft

64" NRes		
0	Ohm-m	200

16" NRes		
0	Ohm-m	200

Southwest Exploration Services, LLC

borehole geophysics & video services

COMPANY	PHS/IHS
WELL ID	TURQUOISE TRAIL WELL #2
FIELD	TURQUOISE TRAIL
COUNTY	NAVAJO STATE ARIZONA

TYPE OF LOGS: 60mm SONIC
MORE: GAMMA, CALIPER

LOCATION

SEC TWP RGE

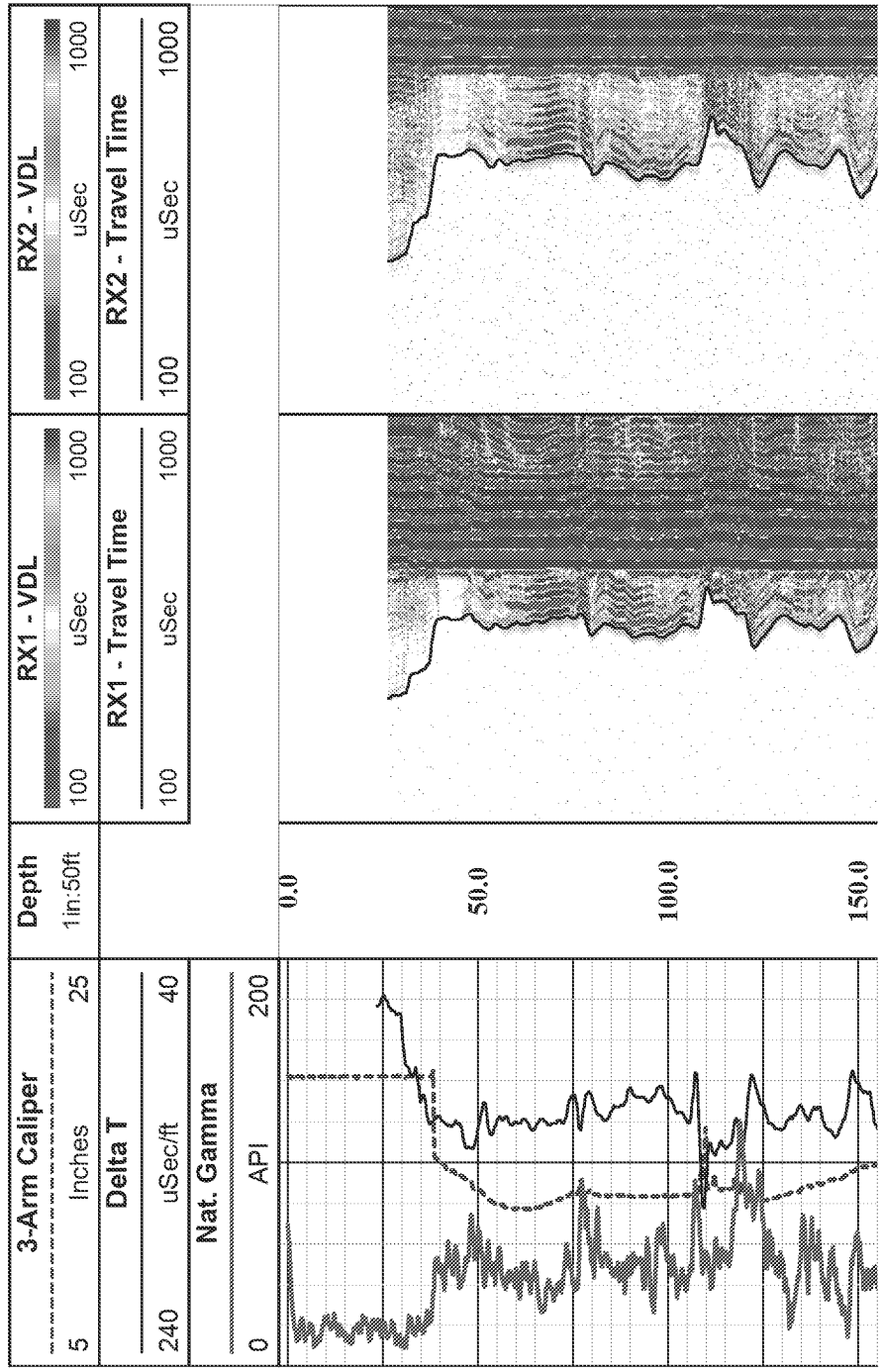
OTHER SERVICES
ELOGS
DUAL GUARD

PERMANENT DATUM	ELEVATION	K.B.
LOG MEAS. FROM	ABOVE PERM. DATUM	D.F.
DRILLING MEAS. FROM		G.L.

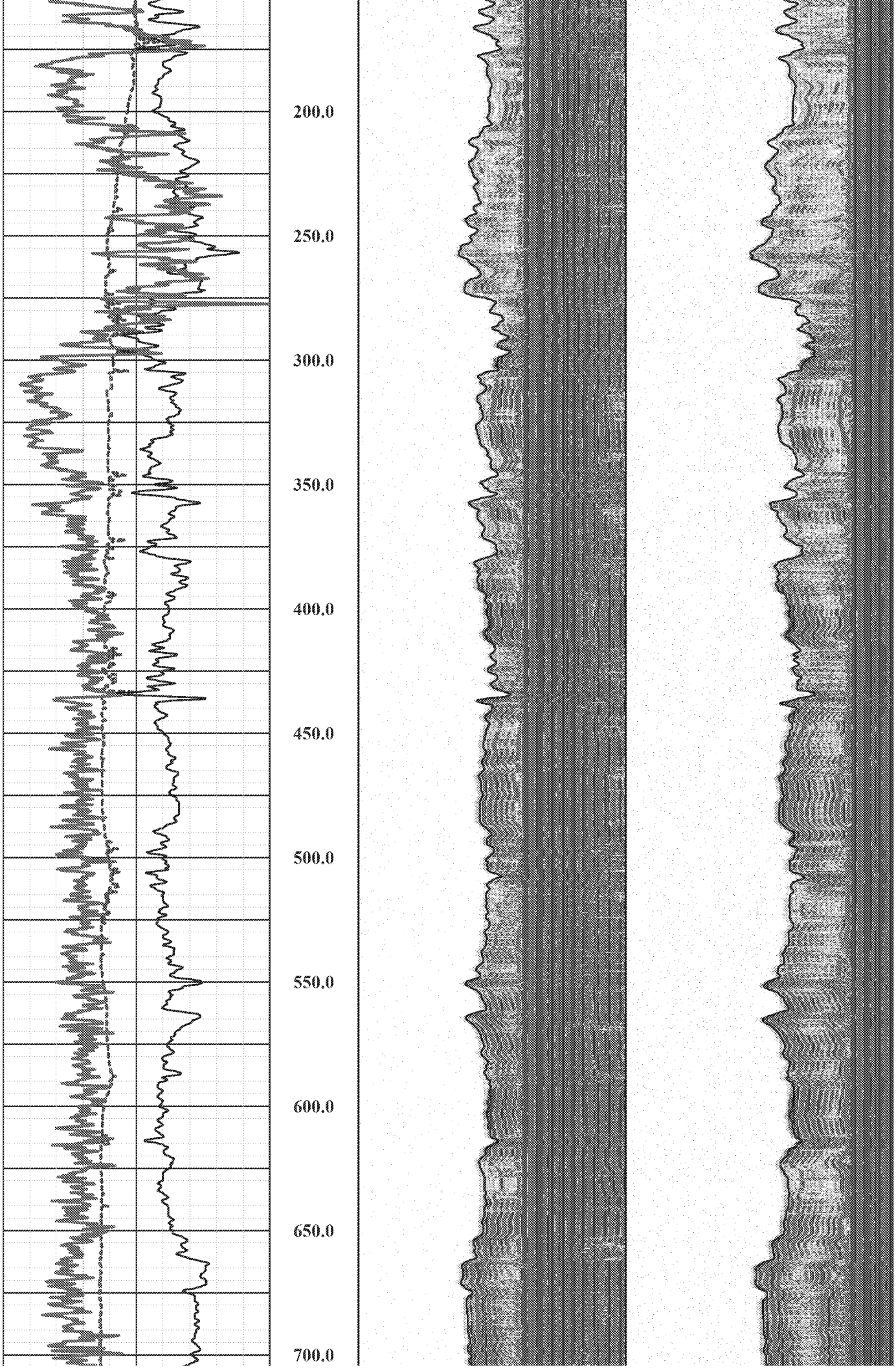
DATE	7-21-13	TYPE FLUID IN HOLE	FRESH MUD
RUN No	1	SALINITY	N/A
TYPE LOG	SONIC, GAMMA, CALIPER	DENSITY	N/A
DEPTH-DRILLER	2510 FT	LEVEL	FULL
DEPTH-LOGGER	2494 FT	MAX. REC. TEMP.	N/A
BTM LOGGED INTERVAL	2494 FT	IMAGE ORIENTED TO:	N/A
TOP LOGGED INTERVAL	SURFACE	SAMPLE INTERVAL	0.2 FT
DRILLER / RIG#	YELLOW JACKET	LOGGING TRUCK	TRUCK #750
RECORDED BY / Logging Eng.	S. STROUD	TOOL STRING/SN	MSI 60mm SONIC
WITNESSED BY	JSAI- SHERRY	LOG TIME:ON SITE/OFF SITE	1630

RUN	BOREHOLE RECORD			CASING RECORD			
NO.	BIT	FROM	TO	SIZE	WGT.	FROM	TO
1	?	SURFACE	40 FT	20 IN		SURFACE	40 FT
2	12 1/2 IN	40 FT	TOTAL DEPTH				

COMMENTS:



ED_005149_00023261-00067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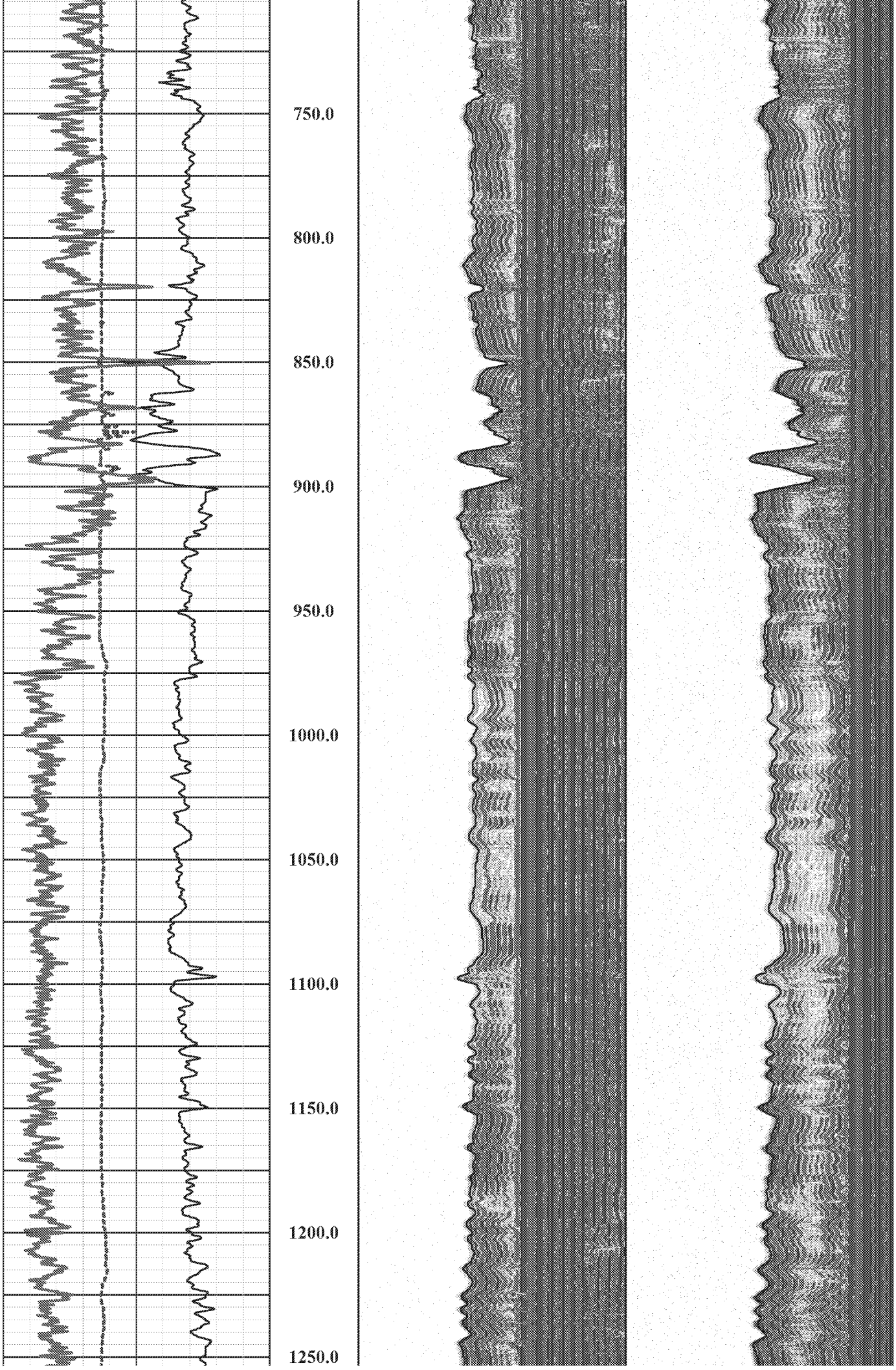
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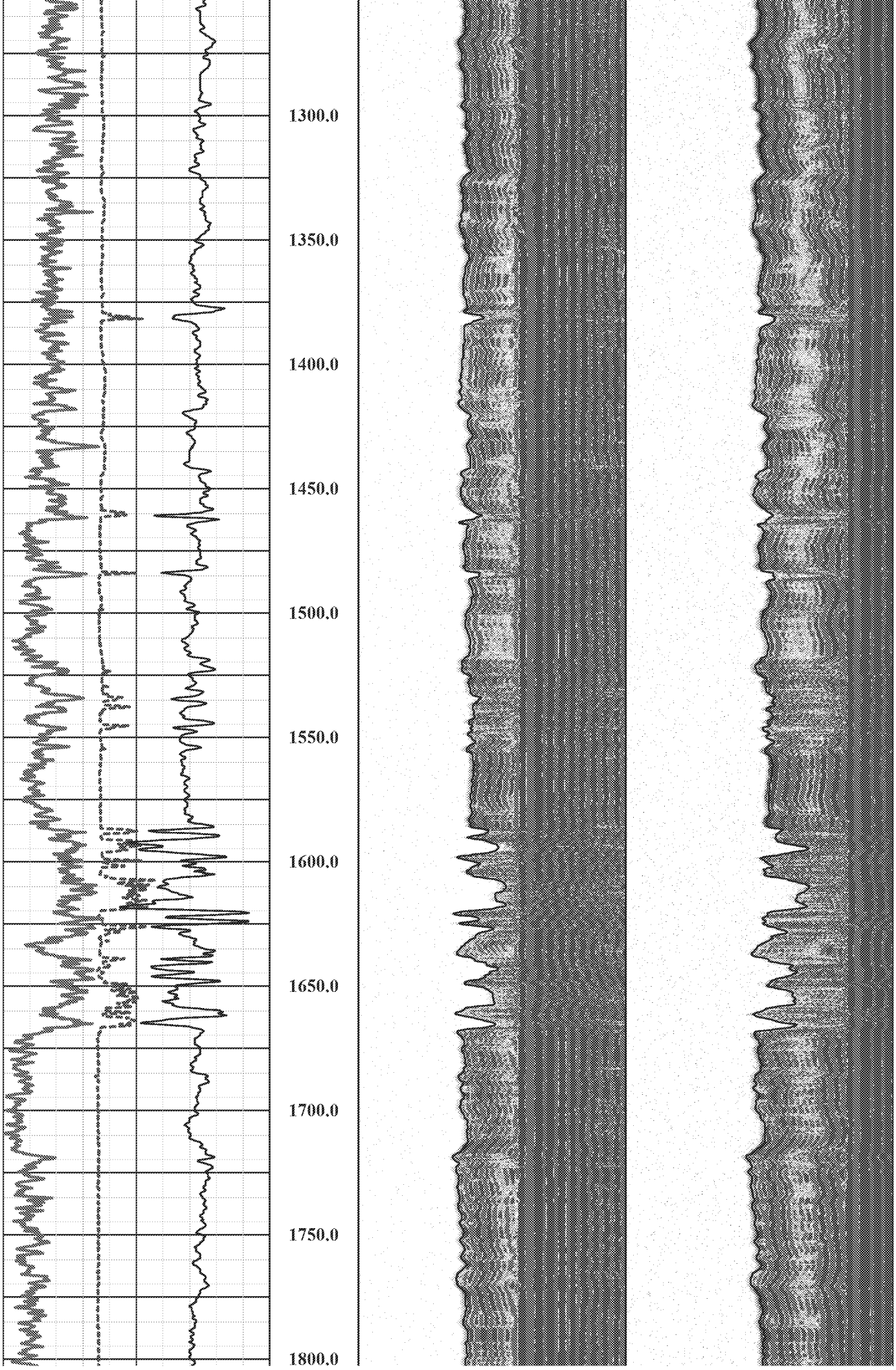
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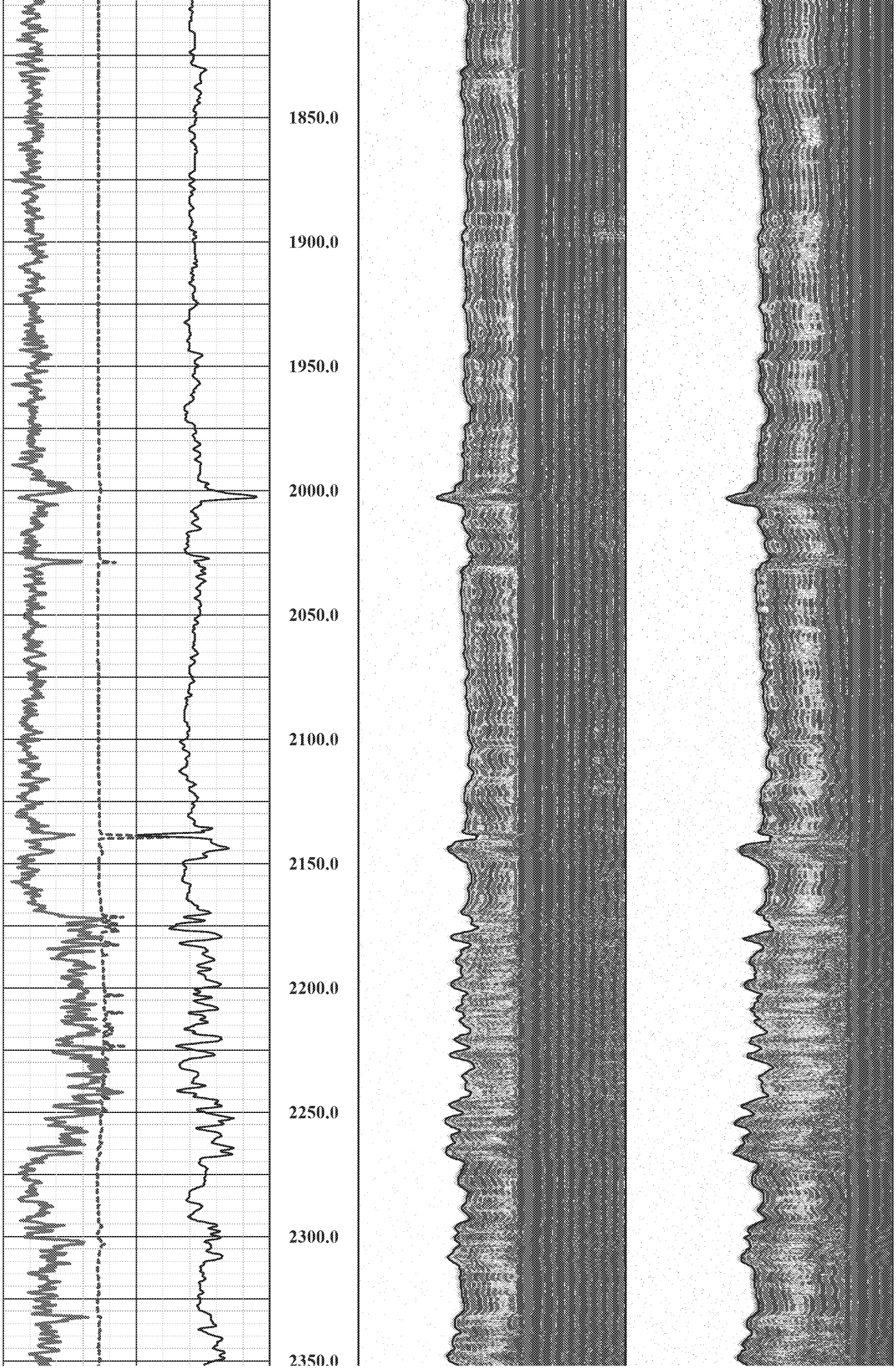
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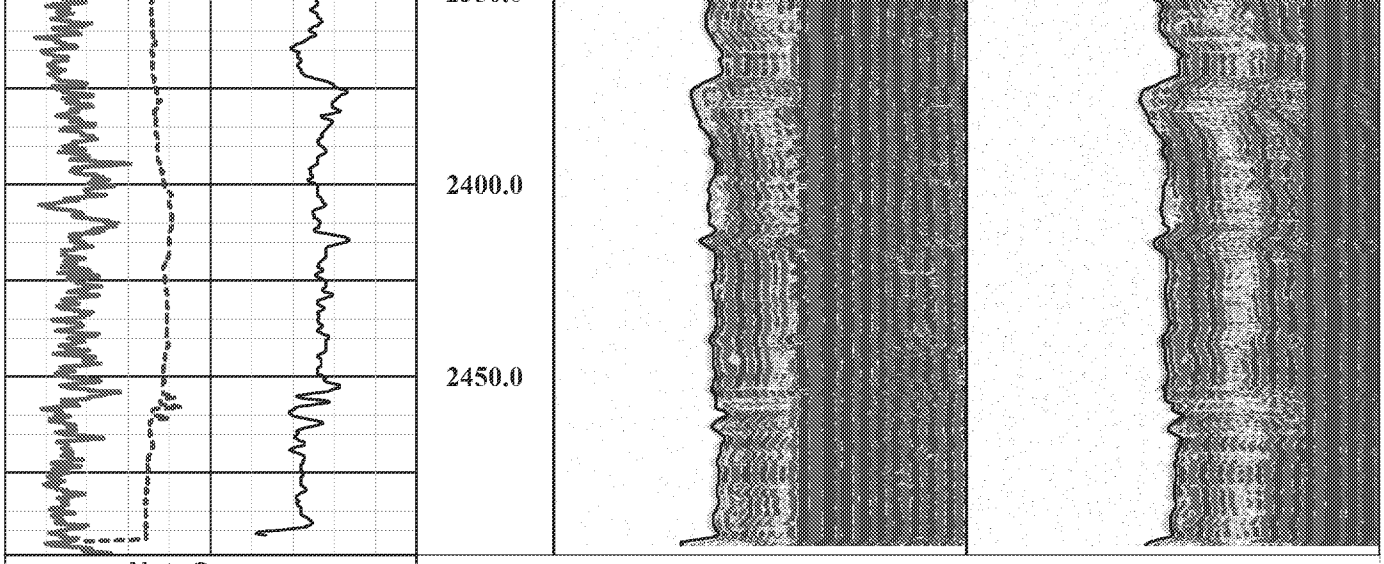


Nat. Gamma					
0	API	200			
Delta T			**RX1 - Travel Time**	**RX2 - Travel Time**	
240	uSec/ft	40	100 uSec 1000	100 uSec 1000	
3-Arm Caliper	**Depth**		**RX1 - VDL**	**RX2 - VDL**	
5	Inches	25	1in:50ft	100 uSec 1000	100 uSec 1000

Copy of geophysical log for reamed borehole,
HAMP Well No. 2, Hopi Tribe

ED_005149_00023261-00073

Southwest Exploration Services, LLC

borehole geophysics & video services

COMPANY	IHS/PHS
WELL ID	#2
FIELD	TURQUOISE TRAIL
COUNTY	NAVAJO STATE ARIZONA

TYPE OF LOGS: REAM CALIPER

MORE:

LOCATION

SEC TWP RGE

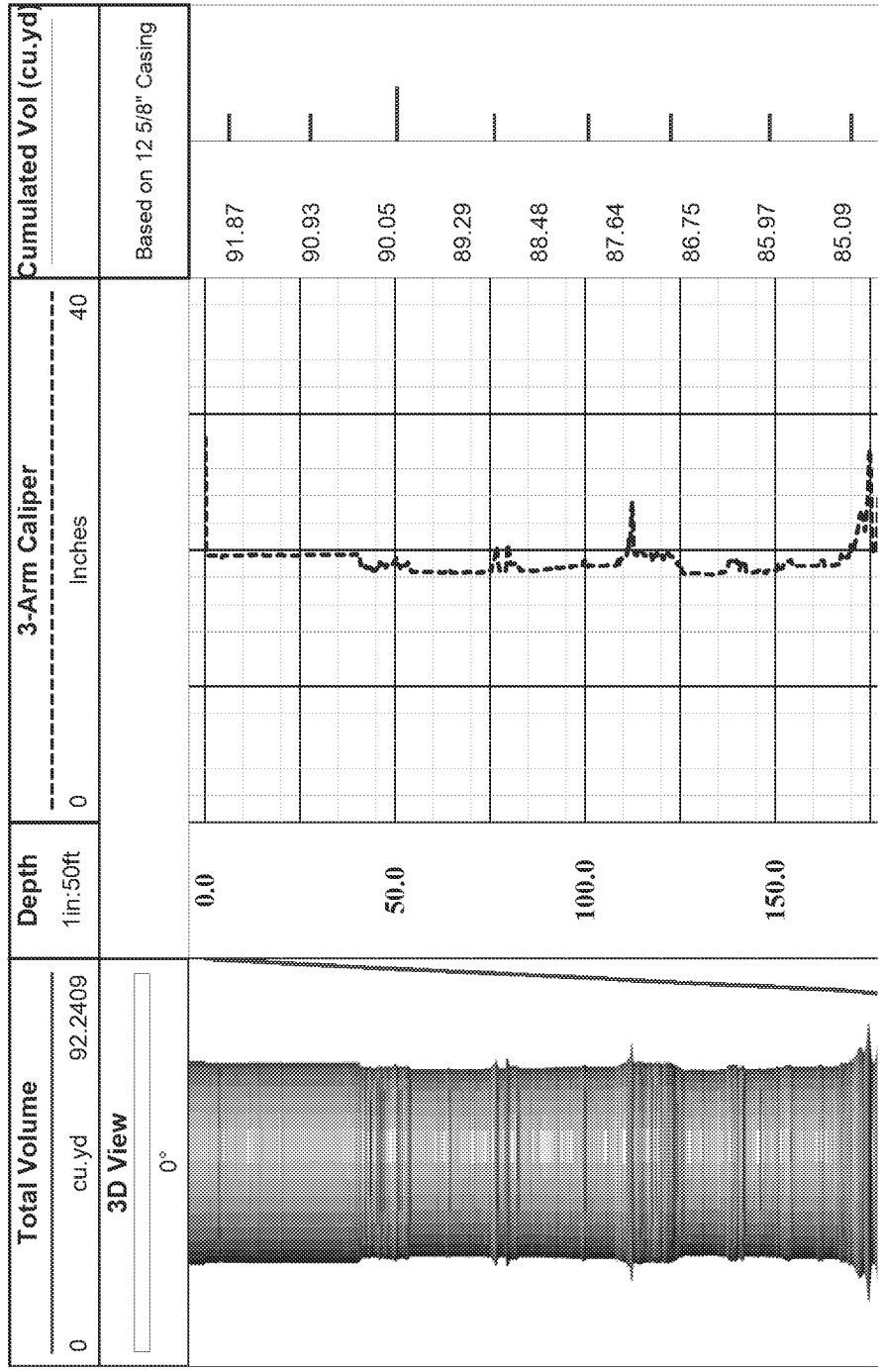
OTHER SERVICES
NONE

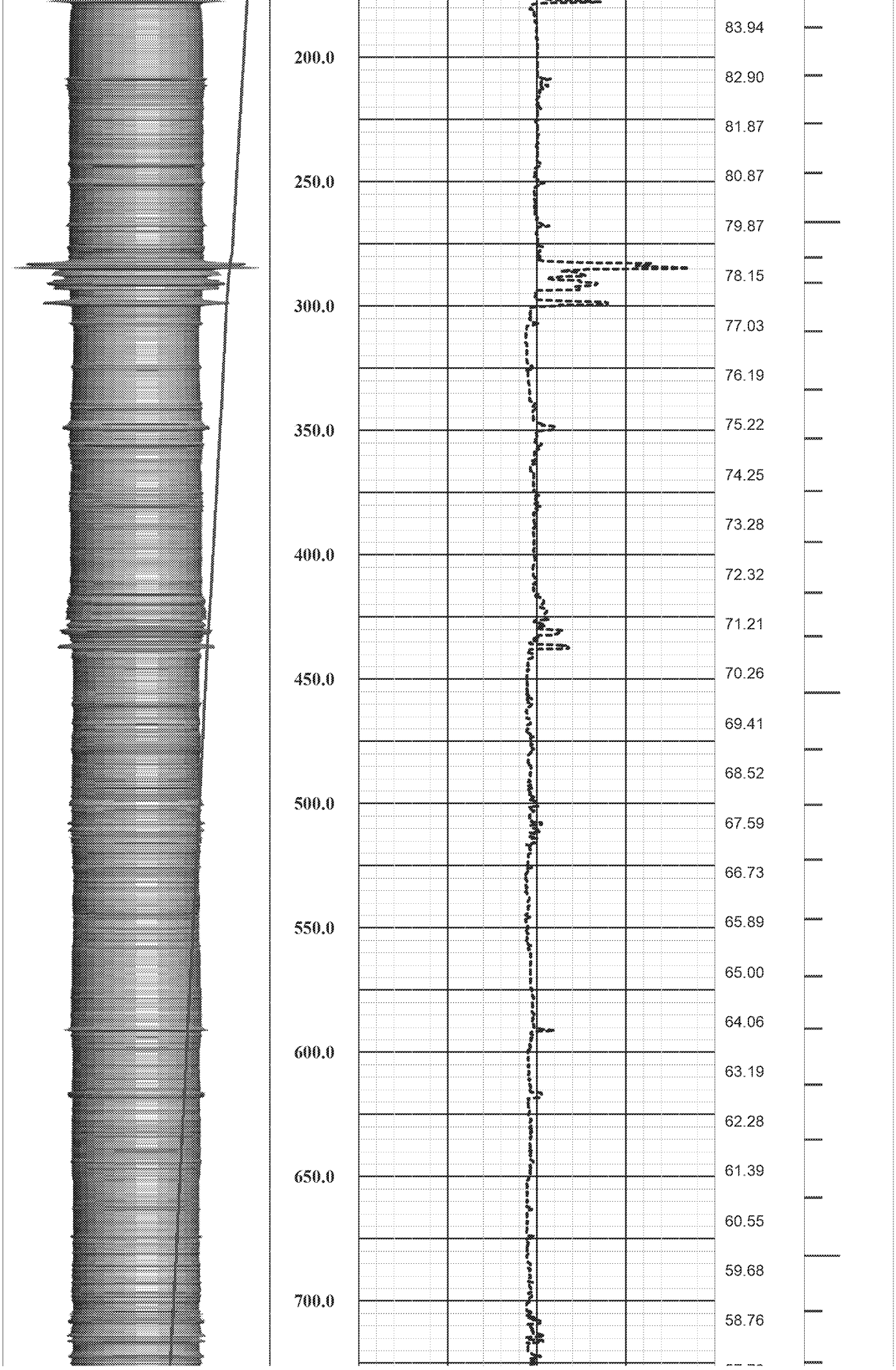
PERMANENT DATUM		ELEVATION	K.B.
LOG MEAS. FROM	GROUND LEVEL	ABOVE PERM. DATUM	D.F.
DRILLING MEAS. FROM			G.L.

DATE	9-8-13	TYPE FLUID IN HOLE	FRESH MUD
RUN No	1	SALINITY	N/A
TYPE LOG	REAM CALIPER	DENSITY	N/A
DEPTH-DRILLER	2195 FT	LEVEL	FULL
DEPTH-LOGGER	2192 FT	MAX. REC. TEMP.	N/A
BTM LOGGED INTERVAL	2191 FT	IMAGE ORIENTED TO:	N/A
TOP LOGGED INTERVAL	SURFACE	SAMPLE INTERVAL	. 2 FT
DRILLER / RIG#	YELLOW JACKET-JASON	LOGGING TRUCK	TRUCK # 400
RECORDED BY / Logging Eng.	S. STROUD	TOOL STRING/SN	COMPROBE CALIPER
WITNESSED BY	JSAI-SHERRY FRITZ	LOG TIME:ON SITE/OFF SITE	630 AM 845 AM

RUN	BOREHOLE RECORD			CASING RECORD			
NO.	BIT	FROM	TO	SIZE	WGT.	FROM	TO
1	32 IN	0	40 FT	20 IN		SURFACE	40 FT
2	12 1/4 IN	40 FT	2494 FT				
3	18 IN	40 FT	2192 FT				

COMMENTS:

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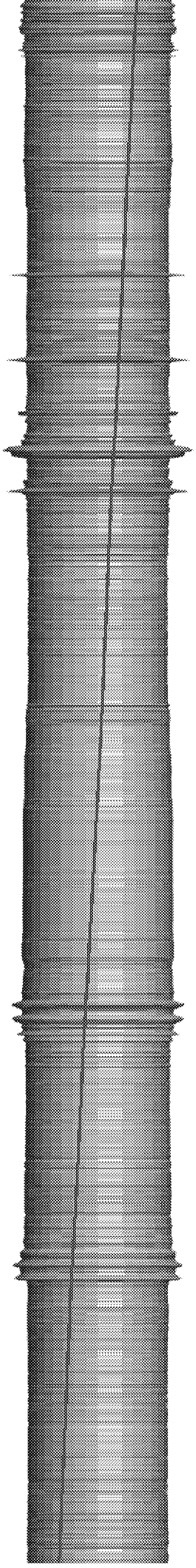

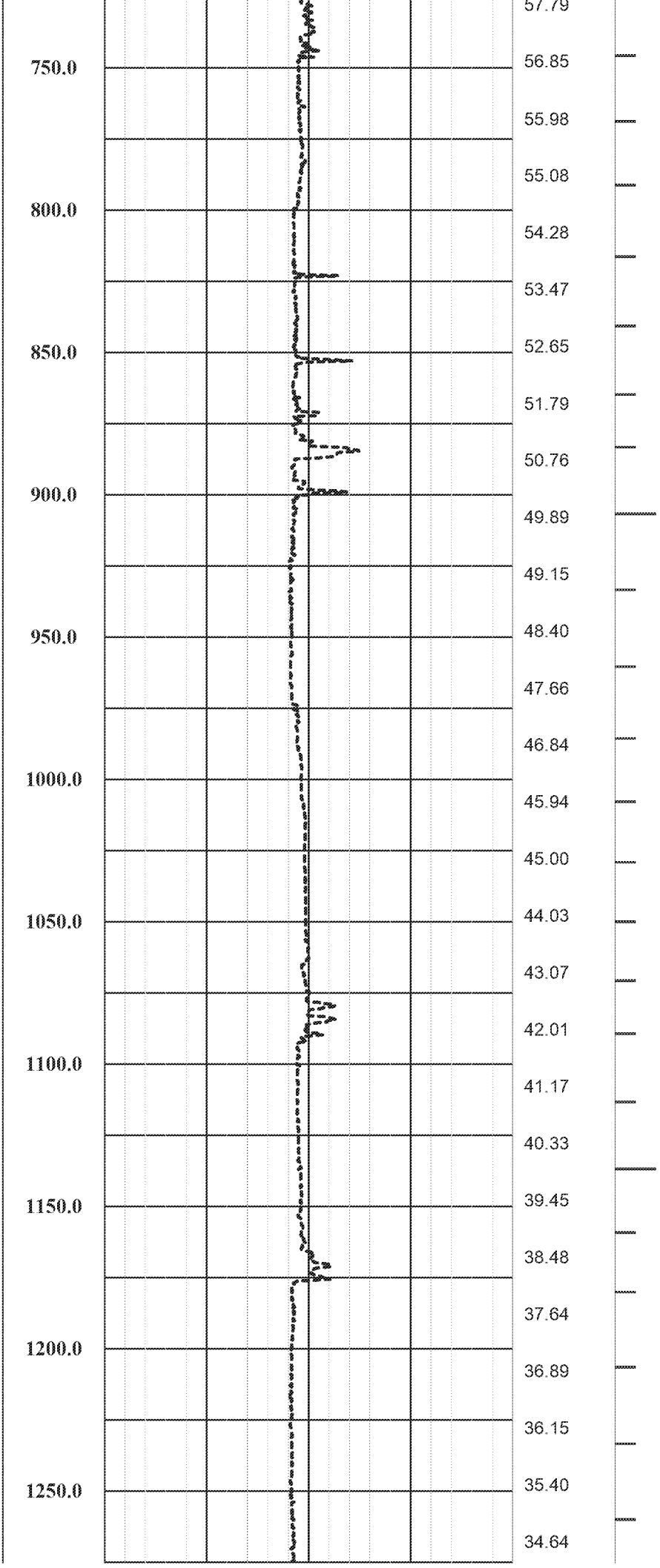
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50.76
49.89
49.15
48.40
47.66
46.84
45.94
45.00
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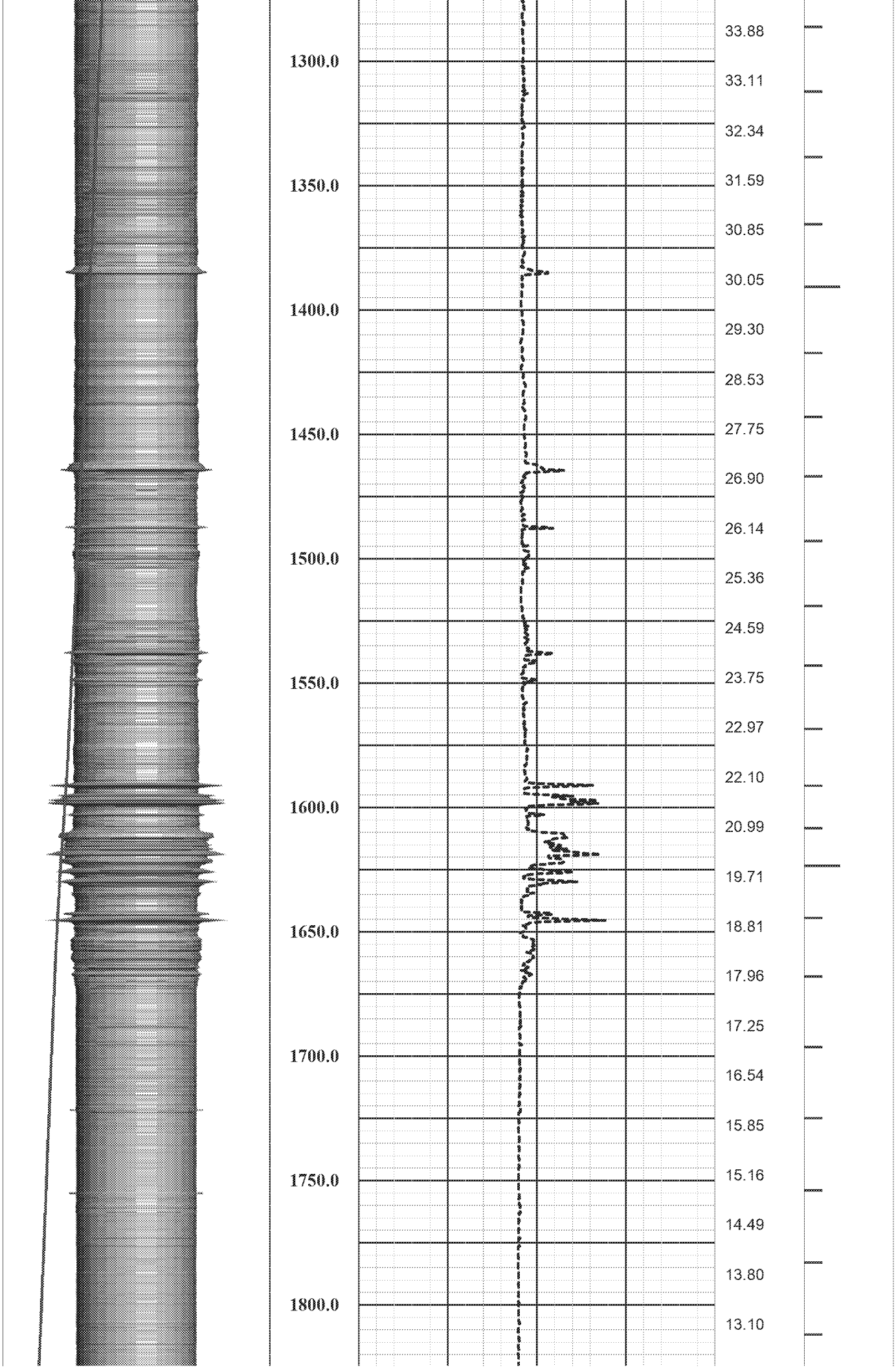
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30.85
30.05
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28.53
27.75
26.90
26.14
25.36
24.59
23.75
22.97
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13.80
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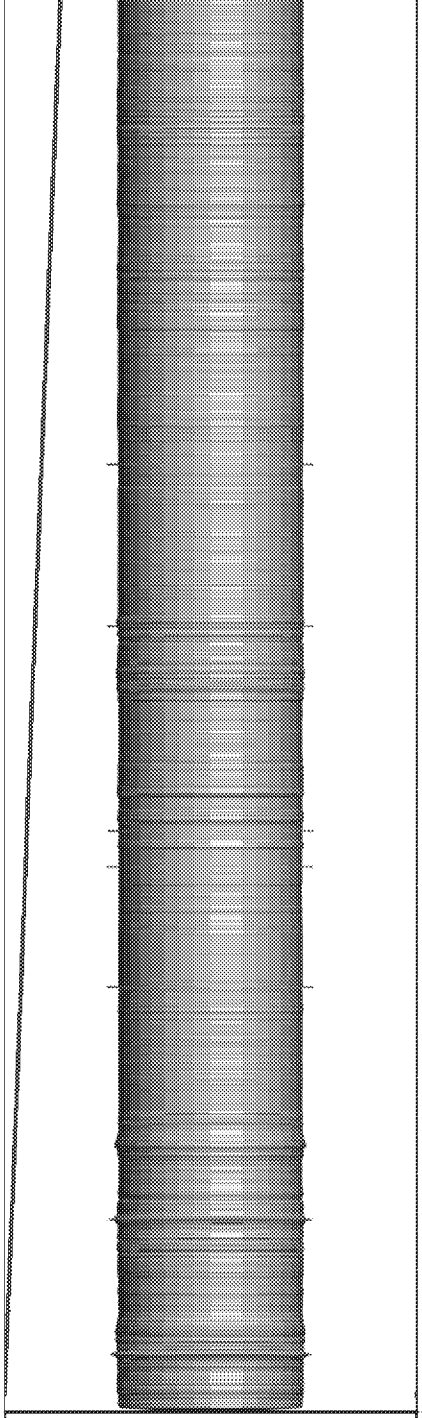

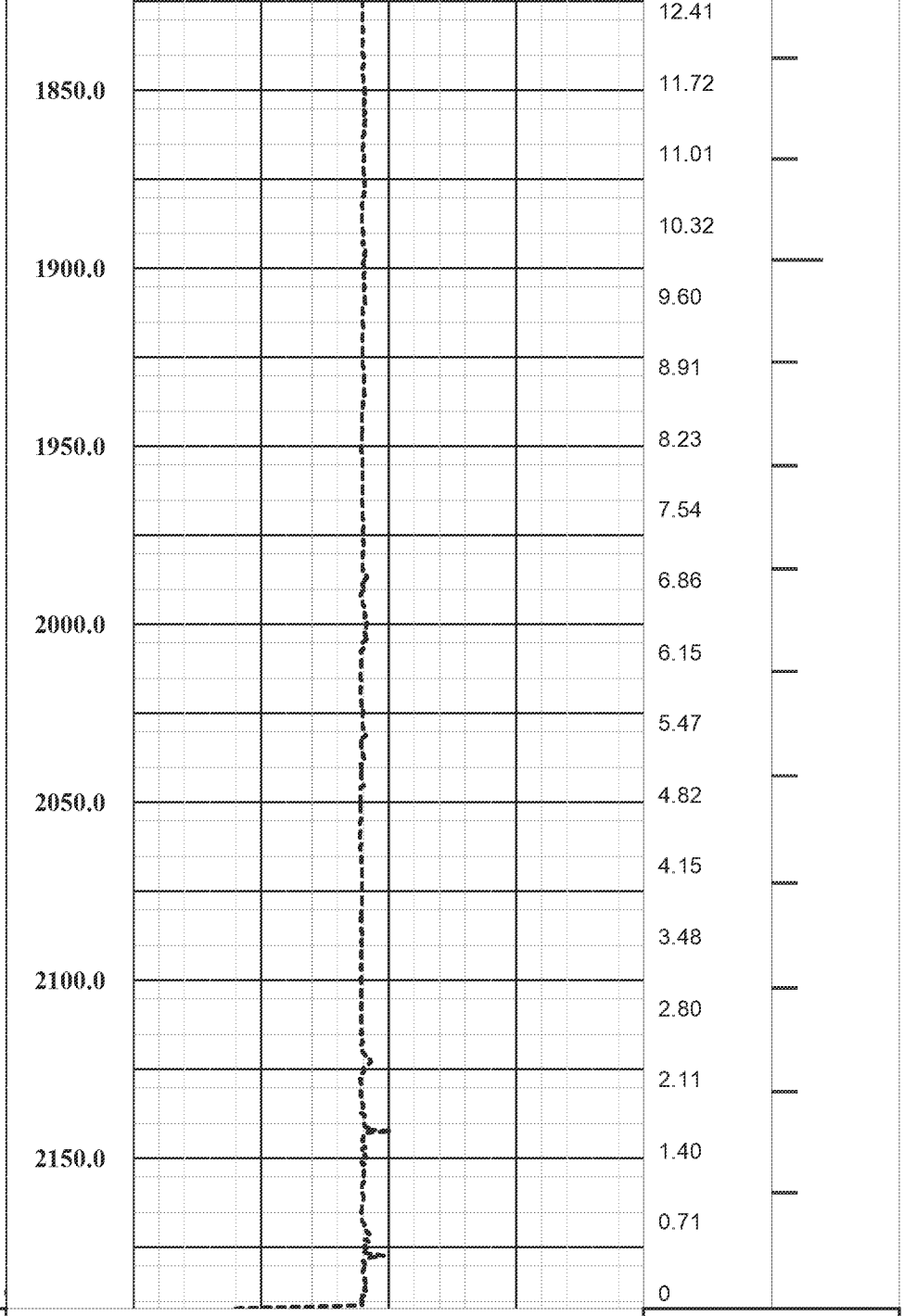

3D View			
0°			Based on 12 5/8" Casing
Total Volume	**Depth**	**3-Arm Caliper**	**Cumulated Vol (cu.yd)**
0 cu.yd 92.2409	1in:50ft	0 Inches 40	

Appendix 4.

As-built diagrams of four temporary zones constructed for sampling formation water, HAMP Well No. 2, Hopi Tribe, Arizona

ED_005149_00023261-00079

Ex. 9 Wells

Ex. 9 Wells

Ex. 9 Wells

Ex. 9 Wells

Appendix 5.

Copies of laboratory water-quality sample results, HAMP Well No. 2, Hopi Tribe, Arizona

ED_005149_00023261-00084

Copy of the laboratory water quality results
from the zonal sampling of the pilot borehole
Zone 995 to 1,016 (Zone Z1,006)
HAMP Well No. 2, Hopi Tribe

ED_005149_00023261-00085

LEGEND
Technical Services, Inc.
www.legend-group.com

17631 North 25th Avenue • Phoenix, AZ 85023
P (602) 324-6100 • F (602) 324-6101

25 September 2013

John Traux
Yellow Jacket Drilling Service
3922 E University Dr. Suite#1
Phoenix, AZ 85034

RE: New source

Laboratory Work Order No.: 3080870

Legend Technical Services of Arizona, Inc. is pleased to provide the enclosed analytical results for the aforementioned project. These results relate only to the items tested. This cover letter and the accompanying pages represent the full report for these analyses and should only be reproduced in full. Samples for this project were received by the laboratory on 08/09/13 13:43.

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

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

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

Sincerely,
LEGEND TECHNICAL SERVICES OF ARIZONA, INC.

Cory Lund For Michelle Thompson
Client Services Representative
(602) 324-6100

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

ED_005149_00023261-00086

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Type	Date Sampled	Date Received
Hamp Well #2 (Z1,006)	3080870-01	Drinking Water	Grab	08/08/13 12:00	08/09/13 13:43

Sample Condition Upon Receipt:

Temperature: 2.00 C

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

Case Narrative:

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

QA/QC Criteria: All analyses met method requirements unless otherwise qualified.

Certifications: AZ(PHX)0004, AZ(TUC)OOO4, AIHA#102982, CDC ELITE Member.

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

Comments: There were no problems encountered during the processing of the samples, unless otherwise noted. All samples were analyzed on a "wet" basis unless designated as "dry weight".

Sample was turbid resulting in apparent color. In order to record the true color, the sample was centrifuged at 4500 rpm for 10 minutes. This resulted in a pellet at the bottom of the sample. The supernatant was poured off and the true color was taken from this portion of the sample. 8/15/13 CL

Hamp Well #2 (Z1,006) (3080870-01) Drinking Water (Grab) Sampled: 08/08/13 12:00 Received: 08/09/13 13:43

UL#AZ0432

Analyte	Result	PQL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EPA 504.1									
1,2-Dibromo-3-chloropropane (D	<0.00002	0.00002	mg/L	1.02	182660	08/14/13 00:00	08/14/13 00:00	EPA 504.1	
1,2-Dibromoethane (EDB)	<0.00001	0.00001	mg/L	1.02	182660	08/14/13 00:00	08/14/13 00:00	EPA 504.1	
EPA 515.3									
2,4,5-TP (Silvex)	<0.0010	0.0010	mg/L	10	183006	08/21/13 00:00	08/23/13 00:00	EPA 515.3	D1
2,4-D	<0.0010	0.0010	mg/L	10	183006	08/21/13 00:00	08/23/13 00:00	EPA 515.3	D1
Dalapon	<0.0100	0.0100	mg/L	10	183006	08/21/13 00:00	08/23/13 00:00	EPA 515.3	D1
Dicamba	<0.0010	0.0010	mg/L	10	183006	08/21/13 00:00	08/23/13 00:00	EPA 515.3	D1
Dinoseb	<0.0010	0.0010	mg/L	10	183006	08/21/13 00:00	08/23/13 00:00	EPA 515.3	D1
Pentachlorophenol	<0.00040	0.00040	mg/L	10	183006	08/21/13 00:00	08/23/13 00:00	EPA 515.3	D1
Picloram	<0.0010	0.0010	mg/L	10	183006	08/21/13 00:00	08/23/13 00:00	EPA 515.3	D1
Surrogate: SS-2,4-Dichlorophenylacetic acid		*99 %*		*70-130*	*183006*	*08/21/13*	*08/23/13*	*EPA 515.3*	*D1*
EPA 525.2									
Alachlor	<0.0002	0.0002	mg/L	1.02	182841	08/16/13 00:00	08/20/13 00:00	EPA 525.2	E7, S6, S11
Aldrin	<0.0001	0.0001	mg/L	1.02	182841	08/16/13 00:00	08/20/13 00:00	EPA 525.2	E7, S6, S11
Atrazine	<0.0001	0.0001	mg/L	1.02	182841	08/16/13 00:00	08/20/13 00:00	EPA 525.2	E7, S6, S11
Benzo(a)pyrene	<0.00002	0.00002	mg/L	1.02	182841	08/16/13 00:00	08/20/13 00:00	EPA 525.2	E7, S6, S11
Butachlor	<0.0001	0.0001	mg/L	1.02	182841	08/16/13 00:00	08/20/13 00:00	EPA 525.2	E7, S6, S11
Di(2-ethylhexyl)adipate	~ 0.052	0.0006	mg/L	1.02	182841	08/16/13 00:00	08/20/13 00:00	EPA 525.2	E7, S6, S11
Di(2-ethylhexyl)phthalate	~ 0.016	0.0006	mg/L	1.02	182841	08/16/13 00:00	08/20/13 00:00	EPA 525.2	E7, S6, S11
Dieldrin	<0.0001	0.0001	mg/L	1.02	182841	08/16/13 00:00	08/20/13 00:00	EPA 525.2	E7, S6, S11
Endrin	<0.00001	0.00001	mg/L	1.02	182841	08/16/13 00:00	08/20/13 00:00	EPA 525.2	E7, S6, S11
gamma-BHC (Lindane)	<0.00002	0.00002	mg/L	1.02	182841	08/16/13 00:00	08/20/13 00:00	EPA 525.2	E7, S6, S11
Heptachlor	<0.00004	0.00004	mg/L	1.02	182841	08/16/13 00:00	08/20/13 00:00	EPA 525.2	E7, S6, S11
Heptachlor epoxide	<0.00002	0.00002	mg/L	1.02	182841	08/16/13 00:00	08/20/13 00:00	EPA 525.2	E7, S6, S11
Hexachlorobenzene	<0.0001	0.0001	mg/L	1.02	182841	08/16/13 00:00	08/20/13 00:00	EPA 525.2	E7, S6, S11
Hexachlorocyclopentadiene	<0.0001	0.0001	mg/L	1.02	182841	08/16/13 00:00	08/20/13 00:00	EPA 525.2	E7, S6, S11
Methoxychlor	<0.0001	0.0001	mg/L	1.02	182841	08/16/13 00:00	08/20/13 00:00	EPA 525.2	E7, S6, S11
Metolachlor	<0.0001	0.0001	mg/L	1.02	182841	08/16/13 00:00	08/20/13 00:00	EPA 525.2	E7, S6, S11
Metribuzin	<0.0001	0.0001	mg/L	1.02	182841	08/16/13 00:00	08/20/13 00:00	EPA 525.2	E7, S6, S11
Propachlor	<0.0001	0.0001	mg/L	1.02	182841	08/16/13 00:00	08/20/13 00:00	EPA 525.2	E7, S6, S11
Simazine	<0.00007	0.00007	mg/L	1.02	182841	08/16/13 00:00	08/20/13 00:00	EPA 525.2	E7, S6, S11
Surrogate: SS-2,4,5,6-Tetrachloro-m-xylene		*26 %*		*70-130*	*182841*	*08/16/13*	*08/20/13*	*EPA 525.2*	*S6*
Surrogate: SS-4,4'-Dichlorobiphenyl		*42 %*		*70-130*	*182841*	*08/16/13*	*08/20/13*	*EPA 525.2*	*S6*
Surrogate: SS-Triphenylphosphate		*562 %*		*70-130*	*182841*	*08/16/13*	*08/20/13*	*EPA 525.2*	*S11*

Hamp Well #2 (Z1,006) (3080870-01) Drinking Water (Grab) Sampled: 08/08/13 12:00 Received: 08/09/13 13:43

Analyte	Result	PQL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			UL#AZ0432						
EPA 548.1									
Endothall	<0.0090	0.0090	mg/L	1	182661	08/14/13 00:00	08/15/13 00:00	EPA 548.1	
Surrogate: SS-2,4-Dichlorophenylacetic acid		*103 %*		*54-125*	*182661*	*08/14/13*	*08/15/13*	*EPA 548.1*	
EPA 549.2									
Diquat	<0.0004	0.0004	mg/L	1	182646	08/14/13 00:00	08/14/13 00:00	EPA 549.2	
			Radiation Safety Engineering #AZ0462						
Calculation									
Combined Radium	**0.5 ± 0.1**		pCi/L	1	NA		08/15/13 00:00	Calculation	
EPA 600/00-02									
Gross Alpha Activity	**13.3 ± 2.6**		pCi/L	1	NA		08/19/13 00:00	EPA 600/00-02	
EPA 903.1									
Radium 226 Activity	**0.5 ± 0.1**		pCi/L	1	NA		08/15/13 00:00	EPA 903.1	
EPA 904.0									
Radium 228 Activity	<0.8		pCi/L	1	NA		08/15/13 00:00	EPA 904.0	
			Pace Analytical Services, Inc.						
EPA-5 1613B-Tetras									
Dioxin	ND	0.0000000053	mg/L	1	13792	08/20/13 13:30	08/22/13 00:53	EPA-5 1613B-Tetras	
Surrogate: 13C-2,3,7,8-TCDD		*92 %*		*31-137*	*13792*	*08/20/13*	*08/22/13*	*EPA-5 1613B-Tetras*	
			Legend Technical Services, Inc. #AZ0557						
PESTICIDES/PCBS 505									
Aroclor 1016	<0.000080	0.000080	mg/L	1	B3H2122	08/21/13 12:35	08/21/13 20:30	EPA 505	
Aroclor 1221	<0.020	0.020	mg/L	1	B3H2122	08/21/13 12:35	08/21/13 20:30	EPA 505	
Aroclor 1232	<0.00050	0.00050	mg/L	1	B3H2122	08/21/13 12:35	08/21/13 20:30	EPA 505	
Aroclor 1242	<0.00030	0.00030	mg/L	1	B3H2122	08/21/13 12:35	08/21/13 20:30	EPA 505	
Aroclor 1248	<0.00010	0.00010	mg/L	1	B3H2122	08/21/13 12:35	08/21/13 20:30	EPA 505	
Aroclor 1254	<0.00010	0.00010	mg/L	1	B3H2122	08/21/13 12:35	08/21/13 20:30	EPA 505	
Aroclor 1260	<0.00020	0.00020	mg/L	1	B3H2122	08/21/13 12:35	08/21/13 20:30	EPA 505	
Chlordane	<0.00020	0.00020	mg/L	1	B3H2122	08/21/13 12:35	08/21/13 20:30	EPA 505	
Toxaphene	<0.0010	0.0010	mg/L	1	B3H2122	08/21/13 12:35	08/21/13 20:30	EPA 505	
Surrogate: Decachlorobiphenyl		*23.6 %*		*66.7-131*	*B3H2122*	*08/21/13*	*08/21/13*	*EPA 505*	*S12*

Hamp Well #2 (Z1,006) (3080870-01) Drinking Water (Grab) Sampled: 08/08/13 12:00 Received: 08/09/13 13:43

Legend Technical Services of Arizona, Inc.

Analyte	Result	PQL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Microbiology									
Total Coliforms, MPN	> 23.0	1.1	MPN/100 mL	1	B3H0336	08/09/13 15:20	08/09/13 15:20	SM 9221B	
Total Metals									
Aluminum	**11.3**	0.20	mg/L	1	B3H0291	08/09/13 17:15	08/12/13 18:37	EPA 200.7	
Antimony	**0.0006**	0.0005	mg/L	1	B3H0290	08/09/13 17:15	08/12/13 15:21	EPA 200.8	
Arsenic	**0.0029**	0.0010	mg/L	1	B3H0290	08/09/13 17:15	08/12/13 15:21	EPA 200.8	
Barium	**0.23**	0.01	mg/L	1	B3H0291	08/09/13 17:15	08/12/13 18:37	EPA 200.7	
Beryllium	<0.002	0.002	mg/L	1	B3H0291	08/09/13 17:15	08/12/13 18:37	EPA 200.7	
Cadmium	<0.0001	0.0001	mg/L	1	B3H0290	08/09/13 17:15	08/12/13 15:21	EPA 200.8	
Calcium	**20**	1	mg/L	1	B3H0291	08/09/13 17:15	08/12/13 18:37	EPA 200.7	
Chromium	**0.007**	0.005	mg/L	1	B3H0291	08/09/13 17:15	08/12/13 18:37	EPA 200.7	
Copper	**0.01**	0.01	mg/L	1	B3H0291	08/09/13 17:15	08/12/13 18:37	EPA 200.7	
Iron	**13.5**	0.50	mg/L	10	B3H0291	08/09/13 17:15	08/12/13 18:34	EPA 200.7	B7
Lead	**0.0063**	0.0010	mg/L	1	B3H0290	08/09/13 17:15	08/12/13 15:21	EPA 200.8	
Magnesium	**5**	1	mg/L	1	B3H0291	08/09/13 17:15	08/12/13 18:37	EPA 200.7	
Manganese	**0.40**	0.02	mg/L	1	B3H0291	08/09/13 17:15	08/12/13 18:37	EPA 200.7	
Mercury	<0.0002	0.0002	mg/L	1	B3H0484	08/16/13 09:37	08/16/13 14:39	EPA 245.1	
Nickel	<0.02	0.02	mg/L	1	B3H0291	08/09/13 17:15	08/12/13 18:37	EPA 200.7	
Selenium	<0.0020	0.0020	mg/L	1	B3H0290	08/09/13 17:15	08/12/13 15:21	EPA 200.8	
Silica, Total	**63.3**	0.2	mg/L	1	[CALC]	08/09/13 17:15	08/12/13 18:37	EPA 200.7	
Silicon	**29.6**	0.1	mg/L	1	B3H0291	08/09/13 17:15	08/12/13 18:37	EPA 200.7	
Silver	<0.0001	0.0001	mg/L	1	B3H0290	08/09/13 17:15	08/12/13 15:21	EPA 200.8	
Sodium	**527**	10	mg/L	10	B3H0291	08/09/13 17:15	08/12/13 18:34	EPA 200.7	
Thallium	<0.0005	0.0005	mg/L	1	B3H0290	08/09/13 17:15	08/12/13 15:21	EPA 200.8	
Calcium Hardness as CaCO3	**50**	2	mg/L	1	[CALC]	08/09/13 17:15	08/12/13 18:37	SM2340B	
Magnesium Hardness as CaCO3	**21**	4	mg/L	1	[CALC]	08/09/13 17:15	08/12/13 18:37	SM2340B	
Total Hardness as CaCO3	**71**	4	mg/L	1	[CALC]	08/09/13 17:15	08/12/13 18:37	SM2340B	
Zinc	**0.05**	0.02	mg/L	1	B3H0291	08/09/13 17:15	08/12/13 18:37	EPA 200.7	

Hamp Well #2 (Z1,006) (3080870-01) Drinking Water (Grab) Sampled: 08/08/13 12:00 Received: 08/09/13 13:43

Legend Technical Services of Arizona, Inc.

Analyte	Result	PQL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Inorganic Chemistry									
Total Alkalinity as CaCO3	**680**	10	mg/L	1	B3H0457	08/15/13 14:40	08/15/13 14:40	SM 2320 B	
Chloride	**173**	50.0	mg/L	10	B3H0448	08/15/13 09:33	08/15/13 09:33	EPA 300.0	
Color	**150**	1	Color Units	1	B3H0272	08/09/13 16:15	08/09/13 16:15	SM 2120 B	N1
Cyanide, Total	<0.010	0.010	mg/L	1	B3H0354	08/13/13 10:30	08/13/13 13:57	SM 4500 CN E	
Fluoride	**5.30**	0.10	mg/L	1	B3H0527	08/16/13 17:25	08/16/13 17:25	SM 4500 F C	
Nitrate as N	**0.21**	0.20	mg/L	1	[CALC]	08/16/13 10:00	08/16/13 10:00	Calculation	
Nitrate + Nitrite as N	**0.21**	0.20	mg/L	1	B3H0533	08/16/13 10:00	08/16/13 10:00	SM 4500 NO3 F	
Nitrite as N	<0.10	0.10	mg/L	1	B3H0282	08/09/13 15:35	08/09/13 15:35	SM 4500 NO2 B	
Threshold Odor Number	<1	1	T.O.N.	1	B3H0273	08/09/13 16:15	08/09/13 16:15	EPA 140.1	
pH	**9.2**		pH Units	1	B3H0278	08/11/13 12:45	08/11/13 12:45	SM 4500H B	H5
Temperature	**19.1**		°C	1	B3H0278	08/11/13 12:45	08/11/13 12:45	pH Temperature	H5
Sulfate	**280**	50.0	mg/L	10	B3H0448	08/15/13 09:33	08/15/13 09:33	EPA 300.0	
Total Dissolved Solids	**1390**	1	mg/L	1	B3H0419	08/14/13 10:00	08/14/13 10:00	SM 2540 C	
Total Organic Carbon	**23.7**	1.00	mg/L	1	B3H0435	08/14/13 16:38	08/14/13 16:38	SM 5310 C	
Volatile Organic Compounds									
1,1,1-Trichloroethane	<0.0005	0.0005	mg/L	1	B3H0366	08/13/13 09:00	08/13/13 17:08	EPA 524.2	
1,1,2-Trichloroethane	<0.0005	0.0005	mg/L	1	B3H0366	08/13/13 09:00	08/13/13 17:08	EPA 524.2	
1,1-Dichloroethene	<0.0005	0.0005	mg/L	1	B3H0366	08/13/13 09:00	08/13/13 17:08	EPA 524.2	
1,2,4-Trichlorobenzene	<0.0005	0.0005	mg/L	1	B3H0366	08/13/13 09:00	08/13/13 17:08	EPA 524.2	
1,2-Dichlorobenzene	<0.0005	0.0005	mg/L	1	B3H0366	08/13/13 09:00	08/13/13 17:08	EPA 524.2	
1,2-Dichloroethane	<0.0005	0.0005	mg/L	1	B3H0366	08/13/13 09:00	08/13/13 17:08	EPA 524.2	
1,2-Dichloropropane	<0.0005	0.0005	mg/L	1	B3H0366	08/13/13 09:00	08/13/13 17:08	EPA 524.2	
1,4-Dichlorobenzene	<0.0005	0.0005	mg/L	1	B3H0366	08/13/13 09:00	08/13/13 17:08	EPA 524.2	
Benzene	<0.0005	0.0005	mg/L	1	B3H0366	08/13/13 09:00	08/13/13 17:08	EPA 524.2	
Bromodichloromethane	<0.0005	0.0005	mg/L	1	B3H0366	08/13/13 09:00	08/13/13 17:08	EPA 524.2	
Bromoform	<0.0005	0.0005	mg/L	1	B3H0366	08/13/13 09:00	08/13/13 17:08	EPA 524.2	
Carbon tetrachloride	<0.0005	0.0005	mg/L	1	B3H0366	08/13/13 09:00	08/13/13 17:08	EPA 524.2	
Chlorobenzene	<0.0005	0.0005	mg/L	1	B3H0366	08/13/13 09:00	08/13/13 17:08	EPA 524.2	
Chloroform	<0.0005	0.0005	mg/L	1	B3H0366	08/13/13 09:00	08/13/13 17:08	EPA 524.2	
cis-1,2-Dichloroethylene	<0.0005	0.0005	mg/L	1	B3H0366	08/13/13 09:00	08/13/13 17:08	EPA 524.2	
Dibromochloromethane	<0.0005	0.0005	mg/L	1	B3H0366	08/13/13 09:00	08/13/13 17:08	EPA 524.2	
Dichloromethane	<0.0005	0.0005	mg/L	1	B3H0366	08/13/13 09:00	08/13/13 17:08	EPA 524.2	
Ethylbenzene	<0.0005	0.0005	mg/L	1	B3H0366	08/13/13 09:00	08/13/13 17:08	EPA 524.2	
m,p-Xylene	<0.0005	0.0005	mg/L	1	B3H0366	08/13/13 09:00	08/13/13 17:08	EPA 524.2	
o-Xylene	<0.0005	0.0005	mg/L	1	B3H0366	08/13/13 09:00	08/13/13 17:08	EPA 524.2	
Styrene	<0.0005	0.0005	mg/L	1	B3H0366	08/13/13 09:00	08/13/13 17:08	EPA 524.2	
Tetrachloroethene	<0.0005	0.0005	mg/L	1	B3H0366	08/13/13 09:00	08/13/13 17:08	EPA 524.2	
Toluene	<0.0005	0.0005	mg/L	1	B3H0366	08/13/13 09:00	08/13/13 17:08	EPA 524.2	
Total THMs	<0.0005	0.0005	mg/L	1	B3H0366	08/13/13 09:00	08/13/13 17:08	EPA 524.2	
trans-1,2-Dichloroethene	<0.0005	0.0005	mg/L	1	B3H0366	08/13/13 09:00	08/13/13 17:08	EPA 524.2	
Trichloroethene	<0.0005	0.0005	mg/L	1	B3H0366	08/13/13 09:00	08/13/13 17:08	EPA 524.2	
Vinyl chloride	<0.0005	0.0005	mg/L	1	B3H0366	08/13/13 09:00	08/13/13 17:08	EPA 524.2	
Xylenes (total)	<0.0005	0.0005	mg/L	1	B3H0366	08/13/13 09:00	08/13/13 17:08	EPA 524.2	
Surrogate: 1,2-Dichlorobenzene-d4		*106 %*		*70-130*	*B3H0366*	*08/13/13*	*08/13/13*	*EPA 524.2*	
Surrogate: 1,2-Dichloroethane-d4		*92 %*		*70-130*	*B3H0366*	*08/13/13*	*08/13/13*	*EPA 524.2*	

Hamp Well #2 (Z1,006) (3080870-01) Drinking Water (Grab) Sampled: 08/08/13 12:00 Received: 08/09/13 13:43

Analyte	Result	PQL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Legend Technical Services of Arizona, Inc.									
Volatile Organic Compounds									
Surrogate: 4-Bromofluorobenzene		*84 %*		*70-130*	*B3H0366*	*08/13/13*	*08/13/13*	*EPA 524.2*	
Surrogate: Pentafluorobenzene		*99 %*		*70-130*	*B3H0366*	*08/13/13*	*08/13/13*	*EPA 524.2*	
Miscellaneous									
Langlier Index	**1.73**	-5.00	N/A	1	B3H0359	08/13/13 15:47	08/14/13 14:43	Miscellaneous	
Semi-Volatile Organic Compounds									**D6**
3-Hydroxycarbofuran	<0.0050	0.0050	mg/L	10	B3H0443	08/15/13 11:00	08/16/13 01:44	EPA 531.2	
Aldicarb	<0.0050	0.0050	mg/L	10	B3H0443	08/15/13 11:00	08/16/13 01:44	EPA 531.2	
Aldicarb sulfone	<0.0080	0.0080	mg/L	10	B3H0443	08/15/13 11:00	08/16/13 01:44	EPA 531.2	
Aldicarb sulfoxide	<0.0050	0.0050	mg/L	10	B3H0443	08/15/13 11:00	08/16/13 01:44	EPA 531.2	
Carbaryl	<0.0050	0.0050	mg/L	10	B3H0443	08/15/13 11:00	08/16/13 01:44	EPA 531.2	
Carbofuran	<0.0090	0.0090	mg/L	10	B3H0443	08/15/13 11:00	08/16/13 01:44	EPA 531.2	
Methomyl	<0.0050	0.0050	mg/L	10	B3H0443	08/15/13 11:00	08/16/13 01:44	EPA 531.2	
Oxamyl	<0.0200	0.0200	mg/L	10	B3H0443	08/15/13 11:00	08/16/13 01:44	EPA 531.2	
Surrogate: 4-Bromo-3,5-dimethylphenyl-N-methylcarbamate		*105 %*		*70-130*	*B3H0443*	*08/15/13*	*08/16/13*	*EPA 531.2*	
Herbicides									**D1**
Glyphosate	<0.060	0.060	mg/L	10	B3H0613	08/21/13 13:00	08/22/13 21:11	EPA 547	
Fiberquant Analytical Services #AZ0633									
EPA 100.1									
Asbestos	<48.4	20	MFL	1	N/A	08/12/13 00:00	08/19/13 00:00	EPA 100.1	

Total Metals - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H0290 - EPA 200.8										
Blank (B3H0290-BLK1)				*Prepared: 08/09/13 Analyzed: 08/12/13*						
Antimony	<0.0005	0.0005	mg/L							
Arsenic	<0.0010	0.0010	mg/L							
Cadmium	<0.0001	0.0001	mg/L							
Lead	<0.0010	0.0010	mg/L							
Selenium	<0.0020	0.0020	mg/L							
Silver	<0.0001	0.0001	mg/L							
Thallium	<0.0005	0.0005	mg/L							
LCS (B3H0290-BS1)				*Prepared: 08/09/13 Analyzed: 08/12/13*						
Antimony	0.0243	0.0005	mg/L	0.0250		97	85-115			
Arsenic	0.0243	0.0010	mg/L	0.0250		97	85-115			
Cadmium	0.0250	0.0001	mg/L	0.0250		100	85-115			
Lead	0.0242	0.0010	mg/L	0.0250		97	85-115			
Selenium	0.0253	0.0020	mg/L	0.0250		101	85-115			
Silver	0.0254	0.0001	mg/L	0.0250		102	85-115			
Thallium	0.0236	0.0005	mg/L	0.0250		94	85-115			
Matrix Spike (B3H0290-MS1)		**Source: 3080680-02**		*Prepared: 08/09/13 Analyzed: 08/12/13*						
Antimony	0.0254	0.0005	mg/L	0.0250	0.00008	101	70-130			
Matrix Spike (B3H0290-MS2)		**Source: 3080680-02**		*Prepared: 08/09/13 Analyzed: 08/14/13*						
Arsenic	0.0240	0.0010	mg/L	0.0250	<0.0010	96	70-130			
Cadmium	0.0248	0.0001	mg/L	0.0250	0.0002	98	70-130			
Lead	0.0257	0.0010	mg/L	0.0250	0.0016	97	70-130			
Selenium	0.0248	0.0020	mg/L	0.0250	<0.0020	99	70-130			
Silver	0.0226	0.0001	mg/L	0.0250	<0.0001	90	70-130			
Thallium	0.0249	0.0005	mg/L	0.0250	0.00004	100	70-130			

Total Metals - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H0290 - EPA 200.8										
Matrix Spike Dup (B3H0290-MSD1)		**Source: 3080680-02**		*Prepared: 08/09/13 Analyzed: 08/12/13*						
Antimony	0.0252	0.0005	mg/L	0.0250	0.00008	101	70-130	0.8	20	
Matrix Spike Dup (B3H0290-MSD2)		**Source: 3080680-02**		*Prepared: 08/09/13 Analyzed: 08/14/13*						
Arsenic	0.0240	0.0010	mg/L	0.0250	<0.0010	96	70-130	0.3	20	
Cadmium	0.0250	0.0001	mg/L	0.0250	0.0002	99	70-130	0.8	20	
Lead	0.0258	0.0010	mg/L	0.0250	0.0016	97	70-130	0.4	20	
Selenium	0.0252	0.0020	mg/L	0.0250	<0.0020	101	70-130	2	20	
Silver	0.0227	0.0001	mg/L	0.0250	<0.0001	91	70-130	0.2	20	
Thallium	0.0253	0.0005	mg/L	0.0250	0.00004	101	70-130	1	20	
Batch B3H0291 - EPA 200.7										
Blank (B3H0291-BLK1)				*Prepared: 08/09/13 Analyzed: 08/12/13*						
Aluminum	<0.20	0.20	mg/L							
Barium	<0.01	0.01	mg/L							
Beryllium	<0.002	0.002	mg/L							
Calcium	<1	1	mg/L							
Chromium	<0.005	0.005	mg/L							
Copper	<0.01	0.01	mg/L							
Iron	0.06	0.05	mg/L							B7
Magnesium	<1	1	mg/L							
Manganese	<0.02	0.02	mg/L							
Nickel	<0.02	0.02	mg/L							
Silicon	<0.1	0.1	mg/L							
Sodium	<1	1	mg/L							
Zinc	<0.02	0.02	mg/L							

Total Metals - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H0291 - EPA 200.7										
LCS (B3H0291-BS1)				*Prepared: 08/09/13 Analyzed: 08/12/13*						
Aluminum	1.92	0.20	mg/L	2.00		96	85-115			
Barium	0.94	0.01	mg/L	1.00		94	85-115			
Beryllium	0.193	0.002	mg/L	0.200		96	85-115			
Calcium	19	1	mg/L	20.0		95	85-115			
Chromium	0.470	0.005	mg/L	0.500		94	85-115			
Copper	0.89	0.01	mg/L	1.00		89	85-115			
Iron	0.93	0.05	mg/L	1.00		93	85-115			
Magnesium	19	1	mg/L	20.0		93	85-115			
Manganese	0.93	0.02	mg/L	1.00		93	85-115			
Nickel	0.94	0.02	mg/L	1.00		94	85-115			
Silicon	3.8	0.1	mg/L	4.00		94	85-115			
Sodium	20	1	mg/L	20.0		98	85-115			
Zinc	0.97	0.02	mg/L	1.00		97	85-115			
Matrix Spike (B3H0291-MS1)		**Source: 3080680-02**		*Prepared: 08/09/13 Analyzed: 08/12/13*						
Aluminum	2.13	0.20	mg/L	2.00	0.128	100	70-130			
Barium	0.98	0.01	mg/L	1.00	0.05	94	70-130			
Beryllium	0.194	0.002	mg/L	0.200	<0.002	97	70-130			
Calcium	70	1	mg/L	20.0	53	83	70-130			
Chromium	0.470	0.005	mg/L	0.500	0.001	94	70-130			
Copper	0.92	0.01	mg/L	1.00	0.03	89	70-130			
Iron	1.00	0.05	mg/L	1.00	0.07	93	70-130			
Magnesium	31	1	mg/L	20.0	13	91	70-130			
Manganese	0.92	0.02	mg/L	1.00	0.002	92	70-130			
Nickel	0.93	0.02	mg/L	1.00	0.002	93	75-125			
Silicon	7.4	0.1	mg/L	4.00	3.6	95	70-130			
Sodium	22	1	mg/L	20.0	3	98	70-130			
Zinc	1.17	0.02	mg/L	1.00	0.22	95	70-130			

Total Metals - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H0291 - EPA 200.7										
Matrix Spike Dup (B3H0291-MSD1)		**Source: 3080680-02**		*Prepared: 08/09/13 Analyzed: 08/12/13*						
Aluminum	2.14	0.20	mg/L	2.00	0.128	101	70-130	0.5	20	
Barium	0.99	0.01	mg/L	1.00	0.05	94	70-130	0.8	20	
Beryllium	0.196	0.002	mg/L	0.200	<0.002	98	70-130	1	20	
Calcium	71	1	mg/L	20.0	53	86	70-130	1	20	
Chromium	0.475	0.005	mg/L	0.500	0.001	95	70-130	1	20	
Copper	0.93	0.01	mg/L	1.00	0.03	90	70-130	0.8	20	
Iron	1.02	0.05	mg/L	1.00	0.07	95	70-130	2	20	
Magnesium	31	1	mg/L	20.0	13	93	70-130	0.7	20	
Manganese	0.94	0.02	mg/L	1.00	0.002	94	70-130	2	20	
Nickel	0.94	0.02	mg/L	1.00	0.002	94	75-125	1	20	
Silicon	7.4	0.1	mg/L	4.00	3.6	96	70-130	0.7	20	
Sodium	22	1	mg/L	20.0	3	99	70-130	0.4	20	
Zinc	1.18	0.02	mg/L	1.00	0.22	96	70-130	0.8	20	
Batch B3H0484 - EPA 245.1/245.2 Prep										
Blank (B3H0484-BLK1)				*Prepared & Analyzed: 08/16/13*						
Mercury	<0.0002	0.0002	mg/L							
LCS (B3H0484-BS1)				*Prepared & Analyzed: 08/16/13*						
Mercury	0.00099	0.0002	mg/L	0.00100		99	85-115			
Matrix Spike (B3H0484-MS1)		**Source: 3080972-01**		*Prepared & Analyzed: 08/16/13*						
Mercury	0.00102	0.0002	mg/L	0.00100	<0.0002	102	70-130			
Matrix Spike (B3H0484-MS2)		**Source: 3081389-01**		*Prepared & Analyzed: 08/16/13*						
Mercury	0.00098	0.0002	mg/L	0.00100	<0.0002	98	70-130			

Total Metals - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H0484 - EPA 245.1/245.2 Prep										
Matrix Spike Dup (B3H0484-MSD1)		**Source: 3080972-01**		*Prepared & Analyzed: 08/16/13*						
Mercury	0.00101	0.0002	mg/L	0.00100	<0.0002	101	70-130	1	20	
Matrix Spike Dup (B3H0484-MSD2)		**Source: 3081389-01**		*Prepared & Analyzed: 08/16/13*						
Mercury	0.00100	0.0002	mg/L	0.00100	<0.0002	100	70-130	2	20	

Inorganic Chemistry - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H0272 - NO PREP										
Duplicate (B3H0272-DUP1)		**Source: 3080870-01**		*Prepared & Analyzed: 08/09/13*						
Color	150	1	Color Units		150			0	20	
Batch B3H0278 - NO PREP										
Duplicate (B3H0278-DUP1)		**Source: 3080745-01**		*Prepared & Analyzed: 08/11/13*						
pH	7.6		pH Units		7.6			0.3	10	
Temperature	19.5		°C		19.6			0.512	200	
Batch B3H0282 - NO PREP										
Blank (B3H0282-BLK1)				*Prepared & Analyzed: 08/09/13*						
Nitrite as N	<0.10	0.10	mg/L							
Blank (B3H0282-BLK2)				*Prepared & Analyzed: 08/09/13*						
Nitrite as N	<0.10	0.10	mg/L							
Blank (B3H0282-BLK3)				*Prepared & Analyzed: 08/09/13*						
Nitrite as N	<0.10	0.10	mg/L							
LCS (B3H0282-BS1)				*Prepared & Analyzed: 08/09/13*						
Nitrite as N	0.211	0.10	mg/L	0.200		106	80-120			
LCS (B3H0282-BS2)				*Prepared & Analyzed: 08/09/13*						
Nitrite as N	0.211	0.10	mg/L	0.200		106	80-120			
LCS Dup (B3H0282-BSD1)				*Prepared & Analyzed: 08/09/13*						
Nitrite as N	0.211	0.10	mg/L	0.200		106	80-120	0	20	

Inorganic Chemistry - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H0282 - NO PREP										
LCS Dup (B3H0282-BSD2)				*Prepared & Analyzed: 08/09/13*						
Nitrite as N	0.211	0.10	mg/L	0.200		106	80-120	0	20	
Matrix Spike (B3H0282-MS1)		**Source: 3080746-01**		*Prepared & Analyzed: 08/09/13*						
Nitrite as N	<0.10	0.10	mg/L	0.200	<0.10		80-120			M2
Matrix Spike (B3H0282-MS2)		**Source: 3080779-05**		*Prepared & Analyzed: 08/09/13*						
Nitrite as N	0.199	0.10	mg/L	0.200	<0.10	100	80-120			
Matrix Spike (B3H0282-MS3)		**Source: 3080828-01**		*Prepared & Analyzed: 08/09/13*						
Nitrite as N	0.202	0.10	mg/L	0.200	<0.10	101	80-120			
Matrix Spike Dup (B3H0282-MSD1)		**Source: 3080746-01**		*Prepared & Analyzed: 08/09/13*						
Nitrite as N	0.006	0.10	mg/L	0.200	<0.10	3	80-120		20	M2
Matrix Spike Dup (B3H0282-MSD2)		**Source: 3080779-05**		*Prepared & Analyzed: 08/09/13*						
Nitrite as N	0.198	0.10	mg/L	0.200	<0.10	99	80-120	0.5	20	
Matrix Spike Dup (B3H0282-MSD3)		**Source: 3080828-01**		*Prepared & Analyzed: 08/09/13*						
Nitrite as N	0.206	0.10	mg/L	0.200	<0.10	103	80-120	2	20	
Batch B3H0354 - NO PREP										
Blank (B3H0354-BLK1)				*Prepared & Analyzed: 08/13/13*						
Cyanide, Total	<0.010	0.010	mg/L							
LCS (B3H0354-BS1)				*Prepared & Analyzed: 08/13/13*						
Cyanide, Total	0.049	0.010	mg/L	0.0500		98	80-120			

Inorganic Chemistry - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H0354 - NO PREP										
LCS Dup (B3H0354-BSD1)				*Prepared & Analyzed: 08/13/13*						
Cyanide, Total	0.048	0.010	mg/L	0.0500		96	80-120	2	20	
Matrix Spike (B3H0354-MS1)		**Source: 3080462-01**		*Prepared & Analyzed: 08/13/13*						
Cyanide, Total	0.039	0.010	mg/L	0.0500	<0.010	78	80-120			M2
Matrix Spike Dup (B3H0354-MSD1)		**Source: 3080462-01**		*Prepared & Analyzed: 08/13/13*						
Cyanide, Total	0.039	0.010	mg/L	0.0500	<0.010	78	80-120	0	20	M2
Batch B3H0419 - NO PREP										
Blank (B3H0419-BLK1)				*Prepared & Analyzed: 08/14/13*						
Total Dissolved Solids	<1	1	mg/L							
Duplicate (B3H0419-DUP1)		**Source: 3080745-01**		*Prepared & Analyzed: 08/14/13*						
Total Dissolved Solids	386	1	mg/L		386			0	5	
Batch B3H0435 - NO PREP										
Blank (B3H0435-BLK1)				*Prepared & Analyzed: 08/14/13*						
Total Organic Carbon	<1.00	1.00	mg/L							
LCS (B3H0435-BS1)				*Prepared & Analyzed: 08/14/13*						
Total Organic Carbon	10.3	1.00	mg/L	10.0		103	80-120			
LCS Dup (B3H0435-BSD1)				*Prepared & Analyzed: 08/14/13*						
Total Organic Carbon	10.3	1.00	mg/L	10.0		103	80-120	0	20	

Inorganic Chemistry - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H0435 - NO PREP										
Matrix Spike (B3H0435-MS1)		**Source: 3081132-01**		*Prepared & Analyzed: 08/14/13*						
Total Organic Carbon	10.4	1.00	mg/L	10.0	<1.00	104	80-120			
Matrix Spike Dup (B3H0435-MSD1)		**Source: 3081132-01**		*Prepared & Analyzed: 08/14/13*						
Total Organic Carbon	10.4	1.00	mg/L	10.0	<1.00	104	80-120	0	20	
Batch B3H0448 - NO PREP										
Blank (B3H0448-BLK1)				*Prepared & Analyzed: 08/15/13*						
Chloride	<5.0	5.0	mg/L							
Sulfate	<5.0	5.0	mg/L							
Blank (B3H0448-BLK2)				*Prepared & Analyzed: 08/15/13*						
Chloride	<5.0	5.0	mg/L							
Sulfate	<5.0	5.0	mg/L							
LCS (B3H0448-BS1)				*Prepared & Analyzed: 08/15/13*						
Chloride	9.9	5.0	mg/L	10.0		99	90-110			
Sulfate	19.5	5.0	mg/L	20.0		98	90-110			
LCS Dup (B3H0448-BSD1)				*Prepared & Analyzed: 08/15/13*						
Chloride	9.9	5.0	mg/L	10.0		99	90-110	0.3	20	
Sulfate	19.6	5.0	mg/L	20.0		98	90-110	0.5	20	
Matrix Spike (B3H0448-MS1)		**Source: 3080722-02**		*Prepared & Analyzed: 08/15/13*						
Chloride	13.6	5.0	mg/L	10.0	3.4	102	90-110			
Sulfate	19.5	5.0	mg/L	20.0	<5.0	98	90-110			

Inorganic Chemistry - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H0448 - NO PREP										
Matrix Spike (B3H0448-MS2)		**Source: 3080934-04**		*Prepared & Analyzed: 08/15/13*						
Chloride	10.2	5.0	mg/L	10.0	0.3	99	90-110			
Sulfate	19.7	5.0	mg/L	20.0	<5.0	98	90-110			
Matrix Spike Dup (B3H0448-MSD1)		**Source: 3080722-02**		*Prepared & Analyzed: 08/15/13*						
Chloride	13.6	5.0	mg/L	10.0	3.4	102	90-110	0	20	
Sulfate	19.6	5.0	mg/L	20.0	<5.0	98	90-110	0.5	20	
Matrix Spike Dup (B3H0448-MSD2)		**Source: 3080934-04**		*Prepared & Analyzed: 08/15/13*						
Chloride	10.3	5.0	mg/L	10.0	0.3	100	90-110	1	20	
Sulfate	19.8	5.0	mg/L	20.0	<5.0	99	90-110	0.5	20	
Batch B3H0457 - NO PREP										
Blank (B3H0457-BLK1)				*Prepared & Analyzed: 08/15/13*						
Total Alkalinity as CaCO3	<10	10	mg/L							
LCS (B3H0457-BS1)				*Prepared & Analyzed: 08/15/13*						
Total Alkalinity as CaCO3	193	10	mg/L	200		96	80-120			
LCS Dup (B3H0457-BSD1)				*Prepared & Analyzed: 08/15/13*						
Total Alkalinity as CaCO3	191	10	mg/L	200		96	80-120	0.8	20	
Matrix Spike (B3H0457-MS1)		**Source: 3080623-01**		*Prepared & Analyzed: 08/15/13*						
Total Alkalinity as CaCO3	196	10	mg/L	200	7	95	80-120			
Matrix Spike Dup (B3H0457-MSD1)		**Source: 3080623-01**		*Prepared & Analyzed: 08/15/13*						
Total Alkalinity as CaCO3	197	10	mg/L	200	7	95	80-120	0.2	20	

Inorganic Chemistry - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H0527 - NO PREP										
Blank (B3H0527-BLK1)				*Prepared & Analyzed: 08/16/13*						
Fluoride	<0.10	0.10	mg/L							
LCS (B3H0527-BS1)				*Prepared & Analyzed: 08/16/13*						
Fluoride	2.00	0.10	mg/L	2.00		100	90-110			
LCS Dup (B3H0527-BSD1)				*Prepared & Analyzed: 08/16/13*						
Fluoride	2.00	0.10	mg/L	2.00		100	90-110	0	20	
Matrix Spike (B3H0527-MS1)		**Source: 3080870-01**		*Prepared & Analyzed: 08/16/13*						
Fluoride	7.25	0.10	mg/L	2.00	5.30	97	90-110			
Matrix Spike Dup (B3H0527-MSD1)		**Source: 3080870-01**		*Prepared & Analyzed: 08/16/13*						
Fluoride	7.25	0.10	mg/L	2.00	5.30	97	90-110	0	20	
Batch B3H0533 - NO PREP										
Blank (B3H0533-BLK1)				*Prepared & Analyzed: 08/16/13*						
Nitrate + Nitrite as N	<0.20	0.20	mg/L							
Blank (B3H0533-BLK2)				*Prepared & Analyzed: 08/16/13*						
Nitrate + Nitrite as N	<0.20	0.20	mg/L							
Blank (B3H0533-BLK3)				*Prepared & Analyzed: 08/16/13*						
Nitrate + Nitrite as N	<0.20	0.20	mg/L							
Blank (B3H0533-BLK4)				*Prepared & Analyzed: 08/16/13*						
Nitrate + Nitrite as N	<0.20	0.20	mg/L							

Inorganic Chemistry - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H0533 - NO PREP										
LCS (B3H0533-BS1)				*Prepared & Analyzed: 08/16/13*						
Nitrate + Nitrite as N	10.1	0.20	mg/L	10.0		101	90-110			
LCS (B3H0533-BS2)				*Prepared & Analyzed: 08/16/13*						
Nitrate + Nitrite as N	9.58	0.20	mg/L	10.0		96	90-110			
LCS Dup (B3H0533-BSD1)				*Prepared & Analyzed: 08/16/13*						
Nitrate + Nitrite as N	10.1	0.20	mg/L	10.0		101	90-110	0	20	
LCS Dup (B3H0533-BSD2)				*Prepared & Analyzed: 08/16/13*						
Nitrate + Nitrite as N	9.55	0.20	mg/L	10.0		96	90-110	0.3	20	
Matrix Spike (B3H0533-MS1)		**Source: 3080934-02**		*Prepared & Analyzed: 08/16/13*						
Nitrate + Nitrite as N	9.74	0.20	mg/L	10.0	<0.20	97	80-120			
Matrix Spike (B3H0533-MS2)		**Source: 3080934-06**		*Prepared & Analyzed: 08/16/13*						
Nitrate + Nitrite as N	9.44	0.20	mg/L	10.0	<0.20	94	80-120			
Matrix Spike (B3H0533-MS3)		**Source: 3081010-01**		*Prepared & Analyzed: 08/16/13*						
Nitrate + Nitrite as N	9.80	0.20	mg/L	10.0	0.15	96	80-120			
Matrix Spike (B3H0533-MS4)		**Source: 3081010-05**		*Prepared & Analyzed: 08/16/13*						
Nitrate + Nitrite as N	9.82	0.20	mg/L	10.0	0.23	96	80-120			
Matrix Spike Dup (B3H0533-MSD1)		**Source: 3080934-02**		*Prepared & Analyzed: 08/16/13*						
Nitrate + Nitrite as N	9.91	0.20	mg/L	10.0	<0.20	99	80-120	2	20	
Matrix Spike Dup (B3H0533-MSD2)		**Source: 3080934-06**		*Prepared & Analyzed: 08/16/13*						
Nitrate + Nitrite as N	9.75	0.20	mg/L	10.0	<0.20	98	80-120	3	20	

Inorganic Chemistry - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H0533 - NO PREP										
Matrix Spike Dup (B3H0533-MSD3)		**Source: 3081010-01**		*Prepared & Analyzed: 08/16/13*						
Nitrate + Nitrite as N	10.0	0.20	mg/L	10.0	0.15	98	80-120	2	20	
Matrix Spike Dup (B3H0533-MSD4)		**Source: 3081010-05**		*Prepared & Analyzed: 08/16/13*						
Nitrate + Nitrite as N	10.0	0.20	mg/L	10.0	0.23	98	80-120	2	20	

Volatile Organic Compounds - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H0366 - Default Prep VOC										
Blank (B3H0366-BLK1)				*Prepared & Analyzed: 08/13/13*						
1,1,1-Trichloroethane	<0.0005	0.0005	mg/L							
1,1,2-Trichloroethane	<0.0005	0.0005	mg/L							
1,1-Dichloroethene	<0.0005	0.0005	mg/L							
1,2,4-Trichlorobenzene	<0.0005	0.0005	mg/L							
1,2-Dichlorobenzene	<0.0005	0.0005	mg/L							
1,2-Dichloroethane	<0.0005	0.0005	mg/L							
1,2-Dichloropropane	<0.0005	0.0005	mg/L							
1,4-Dichlorobenzene	<0.0005	0.0005	mg/L							
Benzene	<0.0005	0.0005	mg/L							
Bromodichloromethane	<0.0005	0.0005	mg/L							
Bromoform	<0.0005	0.0005	mg/L							
Carbon tetrachloride	<0.0005	0.0005	mg/L							
Chlorobenzene	<0.0005	0.0005	mg/L							
Chloroform	<0.0005	0.0005	mg/L							
cis-1,2-Dichloroethylene	<0.0005	0.0005	mg/L							
Dibromochloromethane	<0.0005	0.0005	mg/L							
Dichloromethane	<0.0005	0.0005	mg/L							
Ethylbenzene	<0.0005	0.0005	mg/L							
m,p-Xylene	<0.0005	0.0005	mg/L							
o-Xylene	<0.0005	0.0005	mg/L							
Styrene	<0.0005	0.0005	mg/L							
Tetrachloroethene	<0.0005	0.0005	mg/L							
Toluene	<0.0005	0.0005	mg/L							
Total THMs	<0.0005	0.0005	mg/L							
trans-1,2-Dichloroethene	<0.0005	0.0005	mg/L							
Trichloroethene	<0.0005	0.0005	mg/L							
Vinyl chloride	<0.0005	0.0005	mg/L							
Xylenes (total)	<0.0005	0.0005	mg/L							

Volatile Organic Compounds - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H0366 - Default Prep VOC										
LCS (B3H0366-BS1)				*Prepared & Analyzed: 08/13/13*						
1,1,1-Trichloroethane	0.0020	0.0005	mg/L	0.00200		100	70-130			
1,1,2-Trichloroethane	0.0018	0.0005	mg/L	0.00200		92	70-130			
1,1-Dichloroethene	0.0019	0.0005	mg/L	0.00200		96	70-130			
1,2,4-Trichlorobenzene	0.0017	0.0005	mg/L	0.00200		84	70-130			
1,2-Dichlorobenzene	0.0018	0.0005	mg/L	0.00200		90	70-130			
1,2-Dichloroethane	0.0017	0.0005	mg/L	0.00200		84	70-130			
1,2-Dichloropropane	0.0017	0.0005	mg/L	0.00200		87	70-130			
1,4-Dichlorobenzene	0.0018	0.0005	mg/L	0.00200		90	70-130			
Benzene	0.0018	0.0005	mg/L	0.00200		92	70-130			
Bromodichloromethane	0.0017	0.0005	mg/L	0.00200		87	70-130			
Bromoform	0.0018	0.0005	mg/L	0.00200		88	70-130			
Carbon tetrachloride	0.0022	0.0005	mg/L	0.00200		108	70-130			
Chlorobenzene	0.0018	0.0005	mg/L	0.00200		91	70-130			
Chloroform	0.0019	0.0005	mg/L	0.00200		96	70-130			
cis-1,2-Dichloroethylene	0.0019	0.0005	mg/L	0.00200		94	70-130			
Dibromochloromethane	0.0017	0.0005	mg/L	0.00200		86	70-130			
Dichloromethane	0.0018	0.0005	mg/L	0.00200		90	70-130			
Ethylbenzene	0.0017	0.0005	mg/L	0.00200		86	70-130			
m,p-Xylene	0.0035	0.0005	mg/L	0.00400		88	70-130			
o-Xylene	0.0017	0.0005	mg/L	0.00200		87	70-130			
Styrene	0.0017	0.0005	mg/L	0.00200		86	70-130			
Tetrachloroethene	0.0019	0.0005	mg/L	0.00200		96	70-130			
Toluene	0.0017	0.0005	mg/L	0.00200		84	70-130			
Total THMs	0.0071	0.0005	mg/L	0.00800		89	0-200			
trans-1,2-Dichloroethene	0.0019	0.0005	mg/L	0.00200		96	70-130			
Trichloroethene	0.0019	0.0005	mg/L	0.00200		96	70-130			
Vinyl chloride	0.0021	0.0005	mg/L	0.00200		104	70-130			
Xylenes (total)	0.0052	0.0005	mg/L	0.00600		87	0-200			

Volatile Organic Compounds - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H0366 - Default Prep VOC										
LCS Dup (B3H0366-BSD1)				*Prepared & Analyzed: 08/13/13*						
1,1,1-Trichloroethane	0.0018	0.0005	mg/L	0.00200		91	70-130	9	20	
1,1,2-Trichloroethane	0.0019	0.0005	mg/L	0.00200		94	70-130	3	20	
1,1-Dichloroethene	0.0018	0.0005	mg/L	0.00200		90	70-130	6	20	
1,2,4-Trichlorobenzene	0.0016	0.0005	mg/L	0.00200		78	70-130	8	20	
1,2-Dichlorobenzene	0.0017	0.0005	mg/L	0.00200		86	70-130	3	20	
1,2-Dichloroethane	0.0017	0.0005	mg/L	0.00200		86	70-130	2	20	
1,2-Dichloropropane	0.0017	0.0005	mg/L	0.00200		84	70-130	3	20	
1,4-Dichlorobenzene	0.0018	0.0005	mg/L	0.00200		89	70-130	2	20	
Benzene	0.0018	0.0005	mg/L	0.00200		88	70-130	4	20	
Bromodichloromethane	0.0017	0.0005	mg/L	0.00200		86	70-130	1	20	
Bromoform	0.0019	0.0005	mg/L	0.00200		94	70-130	6	20	
Carbon tetrachloride	0.0020	0.0005	mg/L	0.00200		100	70-130	8	20	
Chlorobenzene	0.0018	0.0005	mg/L	0.00200		88	70-130	3	20	
Chloroform	0.0018	0.0005	mg/L	0.00200		90	70-130	5	20	
cis-1,2-Dichloroethylene	0.0018	0.0005	mg/L	0.00200		90	70-130	4	20	
Dibromochloromethane	0.0018	0.0005	mg/L	0.00200		92	70-130	7	20	
Dichloromethane	0.0017	0.0005	mg/L	0.00200		86	70-130	5	20	
Ethylbenzene	0.0016	0.0005	mg/L	0.00200		81	70-130	6	20	
m,p-Xylene	0.0034	0.0005	mg/L	0.00400		84	70-130	3	20	
o-Xylene	0.0017	0.0005	mg/L	0.00200		84	70-130	4	20	
Styrene	0.0016	0.0005	mg/L	0.00200		82	70-130	4	20	
Tetrachloroethene	0.0020	0.0005	mg/L	0.00200		97	70-130	2	20	
Toluene	0.0018	0.0005	mg/L	0.00200		89	70-130	6	20	
Total THMs	0.0072	0.0005	mg/L	0.00800		90	0-200	1	200	
trans-1,2-Dichloroethene	0.0018	0.0005	mg/L	0.00200		91	70-130	5	20	
Trichloroethene	0.0018	0.0005	mg/L	0.00200		90	70-130	6	20	
Vinyl chloride	0.0020	0.0005	mg/L	0.00200		99	70-130	5	20	
Xylenes (total)	0.0051	0.0005	mg/L	0.00600		85	0-200	3	200	

Semi-Volatile Organic Compounds - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H0443 - Default Prep GC-Semi										
Blank (B3H0443-BLK1)				*Prepared & Analyzed: 08/15/13*						
3-Hydroxycarbofuran	<0.0005	0.0005	mg/L							
Aldicarb	<0.0005	0.0005	mg/L							
Aldicarb sulfone	<0.0008	0.0008	mg/L							
Aldicarb sulfoxide	<0.0005	0.0005	mg/L							
Carbaryl	<0.0005	0.0005	mg/L							
Carbofuran	<0.0009	0.0009	mg/L							
Methomyl	<0.0005	0.0005	mg/L							
Oxamyl	<0.0020	0.0020	mg/L							
LCS (B3H0443-BS1)				*Prepared & Analyzed: 08/15/13*						
3-Hydroxycarbofuran	0.0020	0.0005	mg/L	0.00200		102	70-130			
Aldicarb	0.0020	0.0005	mg/L	0.00200		102	70-130			
Aldicarb sulfone	0.0021	0.0008	mg/L	0.00200		103	70-130			
Aldicarb sulfoxide	0.0022	0.0005	mg/L	0.00200		108	70-130			
Carbaryl	0.0021	0.0005	mg/L	0.00200		104	70-130			
Carbofuran	0.0021	0.0009	mg/L	0.00200		105	70-130			
Methomyl	0.0021	0.0005	mg/L	0.00200		105	70-130			
Oxamyl	0.0021	0.0020	mg/L	0.00200		106	70-130			
LCS Dup (B3H0443-BSD1)				*Prepared & Analyzed: 08/15/13*						
3-Hydroxycarbofuran	0.0021	0.0005	mg/L	0.00200		103	70-130	0.3	20	
Aldicarb	0.0020	0.0005	mg/L	0.00200		102	70-130	0.2	20	
Aldicarb sulfone	0.0021	0.0008	mg/L	0.00200		103	70-130	0.2	20	
Aldicarb sulfoxide	0.0022	0.0005	mg/L	0.00200		108	70-130	0.4	20	
Carbaryl	0.0021	0.0005	mg/L	0.00200		104	70-130	0.2	20	
Carbofuran	0.0021	0.0009	mg/L	0.00200		105	70-130	0.2	20	
Methomyl	0.0021	0.0005	mg/L	0.00200		105	70-130	0.2	20	
Oxamyl	0.0021	0.0020	mg/L	0.00200		105	70-130	0.9	20	

Semi-Volatile Organic Compounds - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H0443 - Default Prep GC-Semi										
Matrix Spike (B3H0443-MS1)		**Source: 3080462-01**		*Prepared & Analyzed: 08/15/13*						
3-Hydroxycarbofuran	0.0021	0.0005	mg/L	0.00200	<0.0005	103	70-130			
Aldicarb	0.0020	0.0005	mg/L	0.00200	<0.0005	102	70-130			
Aldicarb sulfone	0.0021	0.0008	mg/L	0.00200	<0.0008	106	70-130			
Aldicarb sulfoxide	0.0022	0.0005	mg/L	0.00200	<0.0005	112	70-130			
Carbaryl	0.0021	0.0005	mg/L	0.00200	<0.0005	104	70-130			
Carbofuran	0.0021	0.0009	mg/L	0.00200	<0.0009	105	70-130			
Methomyl	0.0021	0.0005	mg/L	0.00200	<0.0005	107	70-130			
Oxamyl	0.0021	0.0020	mg/L	0.00200	<0.0020	107	70-130			
Matrix Spike Dup (B3H0443-MSD1)		**Source: 3080462-01**		*Prepared & Analyzed: 08/15/13*						
3-Hydroxycarbofuran	0.0021	0.0005	mg/L	0.00200	<0.0005	103	70-130	0.1	30	
Aldicarb	0.0020	0.0005	mg/L	0.00200	<0.0005	102	70-130	0.4	30	
Aldicarb sulfone	0.0021	0.0008	mg/L	0.00200	<0.0008	105	70-130	0.5	30	
Aldicarb sulfoxide	0.0022	0.0005	mg/L	0.00200	<0.0005	112	70-130	0.3	30	
Carbaryl	0.0021	0.0005	mg/L	0.00200	<0.0005	104	70-130	0.4	30	
Carbofuran	0.0021	0.0009	mg/L	0.00200	<0.0009	104	70-130	0.9	30	
Methomyl	0.0021	0.0005	mg/L	0.00200	<0.0005	106	70-130	0.4	30	
Oxamyl	0.0022	0.0020	mg/L	0.00200	<0.0020	108	70-130	0.2	30	

Herbicides - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H0613 - Default Prep GC-Semi										
Blank (B3H0613-BLK1)				*Prepared: 08/21/13 Analyzed: 08/22/13*						
Glyphosate	<0.006	0.006	mg/L							
LCS (B3H0613-BS1)				*Prepared & Analyzed: 08/22/13*						
Glyphosate	0.047	0.006	mg/L	0.0500		95	70-130			
LCS Dup (B3H0613-BSD1)				*Prepared & Analyzed: 08/22/13*						
Glyphosate	0.047	0.006	mg/L	0.0500		93	70-130	2	20	
Matrix Spike (B3H0613-MS1)		**Source: 3081285-01**		*Prepared & Analyzed: 08/22/13*						
Glyphosate	0.048	0.006	mg/L	0.0500	<0.006	96	70-130			
Matrix Spike Dup (B3H0613-MSD1)		**Source: 3081285-01**		*Prepared & Analyzed: 08/22/13*						
Glyphosate	0.048	0.006	mg/L	0.0500	<0.006	95	70-130	0.7	20	

PESTICIDES/PCBS 505 - Quality Control

Legend Technical Services, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H2122 - EPA 500 Series										
Blank (B3H2122-BLK1)				*Prepared & Analyzed: 08/21/13*						
Aroclor 1016	<0.000080	0.000080	mg/L							
Aroclor 1221	<0.020	0.020	mg/L							
Aroclor 1232	<0.00050	0.00050	mg/L							
Aroclor 1242	<0.00030	0.00030	mg/L							
Aroclor 1248	<0.00010	0.00010	mg/L							
Aroclor 1254	<0.00010	0.00010	mg/L							
Aroclor 1260	<0.00020	0.00020	mg/L							
Chlordane	<0.00020	0.00020	mg/L							
Toxaphene	<0.0010	0.0010	mg/L							
LCS (B3H2122-BS1)				*Prepared & Analyzed: 08/21/13*						
Aroclor 1016	0.000481	0.000080	mg/L	0.000500		96.2	70-130			
Aroclor 1260	0.000459	0.00020	mg/L	0.000500		91.8	70-130			
LCS Dup (B3H2122-BSD1)				*Prepared & Analyzed: 08/21/13*						
Aroclor 1016	0.000464	0.000080	mg/L	0.000500		92.8	70-130	3.60	20	
Aroclor 1260	0.000417	0.00020	mg/L	0.000500		83.4	70-130	9.59	20	
Matrix Spike (B3H2122-MS1)		**Source: 1303925-01**		*Prepared: 08/21/13 Analyzed: 08/22/13*						
Aroclor 1016	0.000488	0.000080	mg/L	0.000498	<0.000080	97.9	65-135			
Aroclor 1260	0.000433	0.00020	mg/L	0.000498	<0.00020	86.9	65-135			

EPA 504.1 - Quality Control

UL#AZ0432

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 182660 - MLLE										
Blank (2876400)		**Source: 41105**		*Prepared & Analyzed: 08/14/13*						
1,2-Dibromo-3-chloropropane (DBCP)	<0.00001	0.00001	mg/L				-			
1,2-Dibromoethane (EDB)	<0.00001	0.00001	mg/L				-			
LCS (2876401)		**Source: 41105**		*Prepared & Analyzed: 08/14/13*						
1,2-Dibromo-3-chloropropane (DBCP)	0.00026	0.00001	mg/L	0.000257		102	70-130			
1,2-Dibromoethane (EDB)	0.00025	0.00001	mg/L	0.000257		96	70-130			
LCS (2876402)		**Source: 41105**		*Prepared & Analyzed: 08/14/13*						
1,2-Dibromo-3-chloropropane (DBCP)	0.00026	0.00001	mg/L	0.000257		101	70-130			
1,2-Dibromoethane (EDB)	0.00026	0.00001	mg/L	0.000257		100	70-130			
Reference (2876403)		**Source: 41105**		*Prepared & Analyzed: 08/14/13*						
1,2-Dibromo-3-chloropropane (DBCP)	0.00011	0.00001	mg/L	0.0001		109	70-130			
1,2-Dibromoethane (EDB)	0.00010	0.00001	mg/L	0.0001		105	70-130			
Reference (2876404)		**Source: 41105**		*Prepared: 08/14/13 Analyzed: 08/15/13*						
1,2-Dibromo-3-chloropropane (DBCP)	0.00011	0.00001	mg/L	0.0001		111	70-130			
1,2-Dibromoethane (EDB)	0.00010	0.00001	mg/L	0.0001		101	70-130			

EPA 515.3 - Quality Control

UL#AZ0432

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 183006 - MLLE										
Blank (2881143)		**Source: 41201**		*Prepared: 08/21/13 Analyzed: 08/23/13*						
2,4,5-TP (Silvex)	<0.0001	0.0001	mg/L				-			
2,4-D	<0.0001	0.0001	mg/L				-			
Dalapon	<0.0010	0.0010	mg/L				-			
Dicamba	<0.0001	0.0001	mg/L				-			
Dinoseb	<0.0001	0.0001	mg/L				-			
Pentachlorophenol	<0.00004	0.00004	mg/L				-			
Picloram	<0.0001	0.0001	mg/L				-			
Reference (2881145)		**Source: 41201**		*Prepared: 08/21/13 Analyzed: 08/23/13*						
2,4,5-TP (Silvex)	0.0004	0.0001	mg/L	0.0005		90	70-130			
2,4-D	0.0007	0.0001	mg/L	0.001		72	70-130			
Dalapon	<0.0010	0.0010	mg/L	0.001		85	70-130			
Dicamba	0.0010	0.0001	mg/L	0.001		101	70-130			
Dinoseb	0.0010	0.0001	mg/L	0.001		98	70-130			
Pentachlorophenol	0.00020	0.00004	mg/L	0.0002		98	70-130			
Picloram	0.0004	0.0001	mg/L	0.0005		71	70-130			
Reference (2881146)		**Source: 41201**		*Prepared: 08/21/13 Analyzed: 08/24/13*						
2,4,5-TP (Silvex)	0.0016	0.0001	mg/L	0.0015		105	70-130			
2,4-D	0.0033	0.0001	mg/L	0.003		109	70-130			
Dalapon	0.0034	0.0010	mg/L	0.003		112	70-130			
Dicamba	0.0032	0.0001	mg/L	0.003		108	70-130			
Dinoseb	0.0031	0.0001	mg/L	0.003		104	70-130			
Pentachlorophenol	0.00063	0.00004	mg/L	0.0006		105	70-130			
Picloram	0.0016	0.0001	mg/L	0.0015		108	70-130			

EPA 525.2 - Quality Control

UL#AZ0432

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 182841 - SPE										
Blank (2878962)		**Source: 41153**		*Prepared: 08/16/13 Analyzed: 08/19/13*						
Alachlor	<0.0001	0.0001	mg/L				-			
Aldrin	<0.0001	0.0001	mg/L				-			
Atrazine	<0.0001	0.0001	mg/L				-			
Benzo(a)pyrene	<0.00002	0.00002	mg/L				-			
Butachlor	<0.0001	0.0001	mg/L				-			
Di(2-ethylhexyl)adipate	<0.0006	0.0006	mg/L				-			
Di(2-ethylhexyl)phthalate	<0.0006	0.0006	mg/L				-			
Dieldrin	<0.0001	0.0001	mg/L				-			
Endrin	<0.00001	0.00001	mg/L				-			
gamma-BHC (Lindane)	<0.00002	0.00002	mg/L				-			
Heptachlor	<0.00004	0.00004	mg/L				-			
Heptachlor epoxide	<0.00002	0.00002	mg/L				-			
Hexachlorobenzene	<0.0001	0.0001	mg/L				-			
Hexachlorocyclopentadiene	<0.0001	0.0001	mg/L				-			
Methoxychlor	<0.0001	0.0001	mg/L				-			
Metolachlor	<0.0001	0.0001	mg/L				-			
Metribuzin	<0.0001	0.0001	mg/L				-			
Propachlor	<0.0001	0.0001	mg/L				-			
Simazine	<0.00007	0.00007	mg/L				-			
LCS (2878964)		**Source: 41153**		*Prepared: 08/16/13 Analyzed: 08/19/13*						
Alachlor	0.0022	0.0001	mg/L	0.002		110	70-130			
Aldrin	0.0020	0.0001	mg/L	0.002		101	70-130			
Atrazine	0.0022	0.0001	mg/L	0.002		111	70-130			
Benzo(a)pyrene	0.0017	0.00002	mg/L	0.002		85	70-130			
Butachlor	0.0021	0.0001	mg/L	0.002		104	70-130			
Di(2-ethylhexyl)adipate	0.0023	0.0006	mg/L	0.002		113	70-130			
Di(2-ethylhexyl)phthalate	0.0022	0.0006	mg/L	0.002		111	70-130			
Dieldrin	0.0022	0.0001	mg/L	0.002		109	70-130			
Endrin	0.0022	0.00001	mg/L	0.002		108	70-130			
gamma-BHC (Lindane)	0.0021	0.00002	mg/L	0.002		104	70-130			
Heptachlor	0.0019	0.00004	mg/L	0.002		96	70-130			
Heptachlor epoxide	0.0020	0.00002	mg/L	0.002		98	70-130			
Hexachlorobenzene	0.0019	0.0001	mg/L	0.002		94	70-130			
Hexachlorocyclopentadiene	0.0014	0.0001	mg/L	0.002		71	70-130			
Methoxychlor	0.0021	0.0001	mg/L	0.002		107	70-130			
Metolachlor	0.0022	0.0001	mg/L	0.002		109	70-130			
Metribuzin	0.0018	0.0001	mg/L	0.002		90	70-130			
Propachlor	0.0023	0.0001	mg/L	0.002		116	70-130			
Simazine	0.0021	0.00007	mg/L	0.002		105	70-130			

EPA 525.2 - Quality Control

UL#AZ0432

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 182841 - SPE										
Reference (2878967)		**Source: 41154**		*Prepared: 08/16/13 Analyzed: 08/20/13*						
Alachlor	0.0024	0.0001	mg/L	0.002		118	70-130			
Aldrin	0.0023	0.0001	mg/L	0.002		113	70-130			
Atrazine	0.0023	0.0001	mg/L	0.002		114	70-130			
Benzo(a)pyrene	0.0022	0.00002	mg/L	0.002		112	70-130			
Butachlor	0.0023	0.0001	mg/L	0.002		116	70-130			
Di(2-ethylhexyl)adipate	0.0024	0.0006	mg/L	0.002		122	70-130			
Di(2-ethylhexyl)phthalate	0.0025	0.0006	mg/L	0.002		126	70-130			
Dieldrin	0.0024	0.0001	mg/L	0.002		118	70-130			
Endrin	0.0023	0.00001	mg/L	0.002		113	70-130			
gamma-BHC (Lindane)	0.0022	0.00002	mg/L	0.002		112	70-130			
Heptachlor	0.0022	0.00004	mg/L	0.002		112	70-130			
Heptachlor epoxide	0.0021	0.00002	mg/L	0.002		105	70-130			
Hexachlorobenzene	0.0022	0.0001	mg/L	0.002		108	70-130			
Hexachlorocyclopentadiene	0.0022	0.0001	mg/L	0.002		108	70-130			
Methoxychlor	0.0022	0.0001	mg/L	0.002		108	70-130			
Metolachlor	0.0023	0.0001	mg/L	0.002		116	70-130			
Metribuzin	0.0021	0.0001	mg/L	0.002		107	70-130			
Propachlor	0.0023	0.0001	mg/L	0.002		117	70-130			
Simazine	0.0022	0.00007	mg/L	0.002		109	70-130			
Reference (2879021)				*Prepared: Analyzed: 08/20/13*						
Alachlor	0.0024	0.0001	mg/L	0.002		122	70-130			
Aldrin	0.0024	0.0001	mg/L	0.002		120	70-130			
Atrazine	0.0023	0.0001	mg/L	0.002		115	70-130			
Benzo(a)pyrene	0.0022	0.00002	mg/L	0.002		108	70-130			
Butachlor	0.0022	0.0001	mg/L	0.002		110	70-130			
Di(2-ethylhexyl)adipate	0.0024	0.0006	mg/L	0.002		122	70-130			
Di(2-ethylhexyl)phthalate	0.0025	0.0006	mg/L	0.002		123	70-130			
Dieldrin	0.0023	0.0001	mg/L	0.002		114	70-130			
Endrin	0.0024	0.00001	mg/L	0.002		119	70-130			
gamma-BHC (Lindane)	0.0022	0.00002	mg/L	0.002		112	70-130			
Heptachlor	0.0023	0.00004	mg/L	0.002		116	70-130			
Heptachlor epoxide	0.0021	0.00002	mg/L	0.002		104	70-130			
Hexachlorobenzene	0.0023	0.0001	mg/L	0.002		114	70-130			
Hexachlorocyclopentadiene	0.0023	0.0001	mg/L	0.002		113	70-130			
Methoxychlor	0.0022	0.0001	mg/L	0.002		111	70-130			
Metolachlor	0.0024	0.0001	mg/L	0.002		120	70-130			
Metribuzin	0.0022	0.0001	mg/L	0.002		111	70-130			
Propachlor	0.0024	0.0001	mg/L	0.002		120	70-130			
Simazine	0.0023	0.00007	mg/L	0.002		113	70-130			

EPA 548.1 - Quality Control

UL#AZ0432

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 182661 - SPE										
Blank (2876189)		**Source: 41102**		*Prepared: 08/14/13 Analyzed: 08/15/13*						
Endothall	<0.0090	0.0090	mg/L				-			
LCS (2876213)		**Source: 41102**		*Prepared: 08/14/13 Analyzed: 08/15/13*						
Endothall	0.11	0.0090	mg/L	0.1		114	70-142			
Reference (2876228)		**Source: 41103**		*Prepared: 08/14/13 Analyzed: 08/15/13*						
Endothall	0.047	0.0090	mg/L	0.05		93	70-130			
Reference (2876229)		**Source: 41103**		*Prepared: 08/14/13 Analyzed: 08/15/13*						
Endothall	0.052	0.0090	mg/L	0.05		103	70-130			
Matrix Spike (2876231)		**Source: 41102**		*Prepared: 08/14/13 Analyzed: 08/15/13*						
Endothall	0.13	0.0090	mg/L	0.1	< MRL	130	70-142			
Matrix Spike Dup (2876232)		**Source: 41102**		*Prepared: 08/14/13 Analyzed: 08/15/13*						
Endothall	0.11	0.0090	mg/L	0.1	< MRL	115	70-142			

EPA 549.2 - Quality Control

UL#AZ0432

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 182646 - SPE										
Blank (2876793)		**Source: 41110**		*Prepared & Analyzed: 08/14/13*						
Diquat	<0.0004	0.0004	mg/L				-			
LCS (2876796)		**Source: 41110**		*Prepared & Analyzed: 08/14/13*						
Diquat	0.0045	0.0004	mg/L	0.005		89	70-130			
Reference (2876806)		**Source: 40865**		*Prepared: 07/25/13 Analyzed: 08/14/13*						
Diquat	0.0018	0.0004	mg/L	0.002		91	80-120			
Reference (2876807)		**Source: 40865**		*Prepared: 07/25/13 Analyzed: 08/14/13*						
Diquat	0.0047	0.0004	mg/L	0.005		94	80-120			

Notes and Definitions

S6	Surrogate recovery was below laboratory and method acceptance limits. Reextraction and/or reanalysis confirms low recovery caused by matrix effect.
S12	Surrogate recovery was low. Data reported per ADEQ policy 0154.000.
S11	Surrogate recovery was high. Data reported per ADEQ policy 0154.000.
N1	See case narrative.
M2	Matrix spike recovery was low; the associated blank spike recovery was acceptable.
J	Concentration detected is below the calibration range
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
E7	Concentration estimated. Internal stantard recoveries did not meet laboratory acceptance limits.
D6	Minimum Reporting Limit (MRL) adjusted due to an automatic 10X dilution performed on this sample for the purpose of reporting traditional drinking water analytes for wastewater requirements.
D1	Sample required dilution due to matrix.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
BLK	Method Blank
LCS/Dup	Laboratory Control Sample/Laboratory Fortified Blank/Duplicate
MS/Dup	Matrix Spike/Duplicate
Dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Location / Sample ID: 3080870

CHAIN OF CUSTODY RECORD

LEGEND Technical Services, Inc.
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Page 1 of 1

Please Print Clearly

CLIENT INFORMATION

Client Name	Address	City	State	Zip	Phone	Fax Number or Email Address
YELLOW JACKET DRILLING SVCS	POB 801	GILBERT	AZ	85299 0801	602-453-3252	vern@yjdrilling.com shirtze@hamptr.com

Project Name	Project Number/PWS	Contact	P.O. No.	Fax Results ☐ Email Results ☒	QC Report ☐ EDD ☐ Special Detection Limits ☐
New Source HAMP	13-011 AZ	Vern			

SAMPLE TYPE CODES: DW=Drinking Water, WW=Wastewater, SW=Surface Water, GW=Groundwater, SL=Soil/Solid, TB=Travel Blank, F=Food, S=Sludge/Biosolids, Other

TURN AROUND TIME: Laboratory Authorization Required for Rush
☒ Standard (10-20 Working Days) for all others
☒ Other Rush Arsenic (Laboratory Authorization Required)

REQUESTED ANALYSES

Client's	Date	Time	Sample Location/POE/DWR	Composite	Grab	Sample Type	Compliance	No. of Containers	pH (Lab Use Only)	Metals*	Arsenic	Cyanide	Nitrate, Nitrite	Langelier Index**	Total Coliform	Sulfate	Fluoride	Total Hardness	505, 515, 525	531, 547, 548	549, Dioxin	524, 504	Gross Alpha	Radium 226/228	
HAMP WELL #2	9/9/2013	noon	Z1,006		X	DW		32		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-01
Travel Blank (Do Not Open)					X	DI		3														X			-02
TEMPERATURE BLANK								1																	------

RUSH
AZ 9/15/13

TO ENSURE COMPLETION OF ANALYSIS, SAMPLES MUST BE RECEIVED AT LEAST 3 HOURS PRIOR TO THE HOLD TIME EXPIRATION

Comments / Special Instructions: *Metals= Sb, As, Ba, Be, Bo, Cd, Ca, Rb, Mg, Ni, Se, Na, Tl; **Langelier/Ryan= Ca, Alkalinity, TDS, pH; ***Total Hardness= Ca, Mg. Please Rush As Results If sample source is chlorinated, different sample containers/preservatives must be used for sechlorination. Use Standard Drinking Water detection limits. See list for tests required

SAMPLE CONDITION UPON RECEIPT (Lab Use)

No. of Containers	35	
Temperature	2.0°C	
Custody Seals	Y	(N)
Seals Intact	Y	N
Preserved	(Y)	N

RELINQUISHED BY	Date	Time	SAMPLES RECEIVED BY	Date	Time
① Sampler Signature: Sherry Fritz; Sampler Printed Name: SHERRY FRITZ	9/9/2013	13:35	Signature: Marion L Phillips; Printed Name: MARION L PHILLIPS	9/9/13	1336
② Signature: Marion L Phillips; Printed Name: Marion Phillips	9/9/13	1347	Signature: [illegible]; Printed Name: [illegible]	9/9/13	1343
③ Signature:	Date	Time	Signature:	Date	Time
Printed Name:			Printed Name:		

WHITE-LAB YELLOW-CLIENT

OK per Cory to run cadmium past hold time 9/9/13 [illegible]

FORM GEN-170 (05/06) OK per Cory

The "new source approval" test from Legend Technical Services shall comply with the most recent version of the National Primary Drinking Water Regulations and shall test for the following general classes of contaminants:

1. Microorganisms
2. Organic Chemicals
3. Inorganic Chemicals
4. Radionuclides

3080870

The Contractor shall also sample and test for the following secondary parameters to determine water chemistry that may lead to customer complaints or operation and maintenance problems:

1. Alkalinity
2. Aluminum
3. Calcium
4. Chloride
5. Color
6. Copper
7. Corrosivity
8. Flouride
9. Hardness as CaCO3
10. Iron
11. Magnesium
12. Manganese
13. Nickel
14. Odor
15. pH
16. Silver
17. Sodium
18. Sulfate
19. Total Dissolved Solids (TDS)
20. Total Organic Carbon (TOC)
21. Zinc
22. Silica

Sample analysis (both acquisition and payment) shall be the sole responsibility of the Contractor. The Project Engineer shall be present during water sampling and shall initial the custody seals of the sample containers.

RUSH NOTICE 4-day W.O. #: 3080870

Company: Yellow Jacket drilling Phone:

Contact:

Prelim Due Date: Final Due Date: 8/15/13

Analysis: Arsenic

Number of Samples: 1 Date Samples Expected: 8/9/13

Matrix: DW Expiration Date:

Supervisor Approval

Inorganics:		Specifics:	
Metals:	HL 8/9/13	Specifics:	4 days
Micro:		Specifics:	
SOC:		Specifics:	
VOC:		Specifics:	
Sub1:		Specifics:	
Sub2:		Specifics:	

Comments:

COST: Project Manager: CL

RUSH Initiator: CL

FORM GEN-086.1 (10/06)

Legend Technical Services of Arizona, Inc.

PO Number: 3080870
Sampled By: Sherry Fritz
Compliance?: Yes No

SUBCONTRACT ORDER
3080870

SENDING LABORATORY:
Legend Technical Services of Arizona, Inc.
17631 North 25th Avenue
Phoenix, AZ 85023
Phone: 602-324-6100
Fax: 602-324-6101
Project Manager: Cory Lund

RECEIVING LABORATORY:
Fiberquant Analytical Services
5025 S. 33rd Street
Phoenix, AZ 85040
Phone :(602) 276-6139
Fax: (602) 276-4556

Analysis	Due	Expires	Sample Type circle one	Sample Comments
Sample ID: 3080870-01 Drinking W Sampled: 08/08/13 12:00 Grab Composite N/A				
Asbestos	08/20/13 09:00	08/10/13 12:00		

Containers Supplied:
03_1000mL Plastic Cool to 4° C (T)

OK per Cory to run past hold time 8/9/13 [illegible]

Heather Ward x [signature] 8/12/13 1245 — Released By (Print & Sign) / Date / Time
KMcFarlin x [signature] 8/12/13 1245 — Received By (Print & Sign) / Date / Time
KMcFarlin x [signature] 8/12/13 1315 — Released By (Print & Sign) / Date / Time
Kathy Knowles [signature] 8-12-13 13:15 — Received By (Print & Sign) / Date / Time

Review of Analysis Request (Initials) KLK

Page 1 of 2

Legend Technical Services of Arizona, Inc. **PO Number:** 3080870

SUBCONTRACT ORDER
3080870

SENDING LABORATORY:

Legend Technical Services of Arizona, Inc.
17631 North 25th Avenue
Phoenix, AZ 85023
Phone: 602-324-6100
Fax: 602-324-6101
Project Manager: Cory Lund

RECEIVING LABORATORY:

Underwriter's Laboratories
110 S. Hill Street
South Bend, IN 46617
Phone :(800) 332-4345
Fax: (574) 233-8207

Analysis	Due	Expires	Sample Type (circle one)	Sample Comments
Sample ID: 3080870-01	**Drinking W.**	**Sampled:08/08/13 12:00**	**Grab Composite**	**N/A**
549-Subcontract	08/20/13 09:00	08/15/13 12:00		
548-Subcontract	08/20/13 09:00	08/15/13 12:00		
525-Subcontract	08/20/13 09:00	08/22/13 12:00		
515-Subcontract	08/20/13 09:00	08/22/13 12:00		
504-Subcontract	08/20/13 09:00	08/22/13 12:00		

Containers Supplied:
11_125ml. Amber Glass Bottle w/ Sodium Sulfite (H)
11_125ml. Amber Glass Bottle w/ Sodium Sulfite (I)
20_500ml. Amber Plastic w/ S.T. & H2SO4 (J)
07_1000mL Amber Glass pH <2 w/ SS & HCl (K)
07_1000mL Amber Glass pH <2 w/ SS & HCl (L)
10_40ml. Sodium Thiosulfate Clear Vial Cool to 4° C (M)
10_40ml. Sodium Thiosulfate Clear Vial Cool to 4° C (N)
10_40ml. Sodium Thiosulfate Clear Vial Cool to 4° C (O)
10_40ml. Sodium Thiosulfate Clear Vial Cool to 4° C (P)

Released By (Print & Sign)	Date	Time	Received By (Print & Sign)	Date	Time
Heather Ward x [signature]	8/12/13	1630	FEDEX x	8/12/13	1630
FEDEX x					

Page 2 of 2

Legend Technical Services of Arizona, Inc.

SUBCONTRACT ORDER
3080870

PO Number: 3080870
Sampled By: Sherry Fritz
Compliance?: Yes No

SENDING LABORATORY:
Legend Technical Services of Arizona, Inc.
17631 North 25th Avenue
Phoenix, AZ 85023
Phone: 602-324-6100
Fax: 602-324-6101
Project Manager: Cory Lund

RECEIVING LABORATORY:
Radiation Safety Engineering
3245 N. Washington
Chandler, AZ 85225
Phone :(480) 897-9459
Fax: (480) 892-5446

Analysis	Due	Expires	Sample Type circle one	Sample Comments
Sample ID: 3080870-01	**Drinking W.**	**Sampled: 08/08/13 12:00**	**Grab Composite**	**N/A**
Radium 228	08/20/13 09:00	02/04/14 12:00		
Radium 226	08/20/13 09:00	02/04/14 12:00		
Gross Alpha, Measured	08/20/13 09:00	02/04/14 12:00		
Gross Alpha, Deviation	08/20/13 09:00	02/04/14 12:00		

Containers Supplied:
06_1000mL Plastic pH <2 w/ HNO3 (C)
06_1000mL Plastic pH <2 w/ HNO3 (D)
06_1000mL Plastic pH <2 w/ HNO3 (E)
06_1000mL Plastic pH <2 w/ HNO3 (F)

Released By (Print & Sign)	Date	Time	Received By (Print & Sign)	Date	Time
Heather Ward x [signature]	8/12/13	1245	KMcFarlin [signature]	8/12/13	1245
KMcFarlin x [signature]	8/12/13	1335	[signature]	8-12-13	13:35

Page 2 of 2

Legend Technical Services of Arizona, Inc. PO Number: 3080870

SUBCONTRACT ORDER
3080870

SENDING LABORATORY:

Legend Technical Services of Arizona, Inc.
17631 North 25th Avenue
Phoenix, AZ 85023
Phone: 602-324-6100
Fax: 602-324-6101
Project Manager: Cory Lund

RECEIVING LABORATORY:

Pace Analytical Services
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone :(612) 607-1700
Fax: (612) 607-6444

Analysis	Due	Expires	Sample Type (circle one)	Sample Comments
Sample ID: 3080870-01	**Drinking W**	**Sampled:08/08/13 12:00**	**Grab Composite**	**N/A**
1613-Subcontract	08/20/13 09:00	11/06/13 12:00		

Containers Supplied:
02_1000mL Amber Glass Cool to 4° C (A)
02_1000mL Amber Glass Cool to 4° C (B)

Released By (Print & Sign)	Date	Time	Received By (Print & Sign)	Date	Time
Heather Ward x [signature]	8/8/13	1630	FEDEX x	8/12/13	1630
FEDEX x					

Page 1 of 2

Legend Technical Services of Arizona, Inc. PO Number: 3080870

SUBCONTRACT ORDER
3080870

SENDING LABORATORY:

Legend Technical Services of Arizona, Inc.
17631 North 25th Avenue
Phoenix, AZ 85023
Phone: 602-324-6100
Fax: 602-324-6101
Project Manager: Cory Lund

RECEIVING LABORATORY:

Legend Technical Services, St. Paul AZ0557
88 Empire Drive
Saint Paul, MN 55103
Phone :(800) 826-8553
Fax: (651) 642-1239

Project: Drinking Water

Client: Yellow Jacket Drilling

Analysis	Due	Expires	Sample Comments
Sample ID: 3080870-01 Drinking Wat	**Sampled:08/08/13 12:00**		
505-Subcontract	08/20/13 09:00	08/22/13 12:00	

Containers Supplied:
10_40mL Sodium Thiosulfate Clear Vial Cool to 4° C (Q)
10_40mL Sodium Thiosulfate Clear Vial Cool to 4° C (R)

Special Instructions:

* The sample matrix for leachates supplied to the MN laboratory reflects the matrix of the original sample received by LEGEND AZ.

Released By (Print & Sign)	Date	Time	Received By (Print & Sign)	Date	Time
x Heather Ward	8/12/13	1630	x Felix	8/12/13	1630
x					

Page 1 of 1

Copy of the laboratory water quality results
from the zonal sampling of the pilot borehole
Zone 1,695 to 1,716 (Zone Z1,706)
HAMP Well No. 2, Hopi Tribe

LEGEND
Technical Services, Inc.
www.legend-group.com

17631 North 25th Avenue • Phoenix, AZ 85023
P (602) 324-6100 • F (602) 324-6101

04 September 2013

Yellow Jacket Drilling Services
Valued Client
POB 801
Gilbert, Arizona 85299

RE: Drinking Water

Laboratory Work Order No.: 3080358

Legend Technical Services of Arizona, Inc. is pleased to provide the enclosed analytical results for the aforementioned project. These results relate only to the items tested. This cover letter and the accompanying pages represent the full report for these analyses and should only be reproduced in full. Samples for this project were received by the laboratory on 08/06/13 10:35.

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

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

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

Sincerely,
LEGEND TECHNICAL SERVICES OF ARIZONA, INC.

Cory Lund
Client Services Representative
(602) 324-6100

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

ED_005149_00023261-00129

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Type	Date Sampled	Date Received
Hamp Well #2 (Z1,706)	3080358-01	Drinking Water	Grab	08/05/13 17:30	08/06/13 10:35

Sample Condition Upon Receipt:

Temperature: 2.00 C

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

Case Narrative:

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

QA/QC Criteria: All analyses met method requirements unless otherwise qualified.

Certifications: AZ(PHX)0004, AZ(TUC)OOO4, AIHA#102982, CDC ELITE Member.

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

Comments: There were no problems encountered during the processing of the samples, unless otherwise noted. All samples were analyzed on a "wet" basis unless designated as "dry weight".

Sample was turbid in appearant color. In order to recordthe true color, the sample was centrifuged at 4500 rpm for 10 minutes. This resulted in a pellet at the bottom of the sample. The supernatant was poured off and the true color was taken from this portion of the sample. 8/8/13 CL

This report contains data that were produced by a subcontracted laboratory certified for the fields of testing performed.

Underwriter's Laboratories AZ0432
Jim Van Fleit
574.472-5535

Pace Analytical AZ0014
Emily Hazelroth
612.607.6407

Legend Technical Services, St. Paul AZ0557
Bach Pham
651.221.4062

Radiation Safety AZ0462
Pierre Pouquette
480.897.9459

Fiberquant AZ0633
Karen Grant 602.276.6131
Kathy Townsend 602.276.6139

Hamp Well #2 (Z1,706) (3080358-01) Drinking Water (Grab) Sampled: 08/05/13 17:30 Received: 08/06/13 10:35

UL#AZ0432

Analyte	Result	PQL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EPA 504.1									
1,2-Dibromo-3-chloropropane (D	<0.00002	0.00002	mg/L	1.01	182492	08/08/13 00:00	08/08/13 00:00	EPA 504.1	
1,2-Dibromoethane (EDB)	<0.00001	0.00001	mg/L	1.01	182492	08/08/13 00:00	08/08/13 00:00	EPA 504.1	
EPA 515.3									
2,4,5-TP (Silvex)	<0.0010	0.0010	mg/L	10	182762	08/15/13 00:00	08/16/13 00:00	EPA 515.3	D1
2,4-D	<0.0010	0.0010	mg/L	10	182762	08/15/13 00:00	08/16/13 00:00	EPA 515.3	D1, N4
Dalapon	<0.0100	0.0100	mg/L	10	182762	08/15/13 00:00	08/16/13 00:00	EPA 515.3	D1
Dicamba	<0.0010	0.0010	mg/L	10	182762	08/15/13 00:00	08/16/13 00:00	EPA 515.3	D1
Dinoseb	<0.0010	0.0010	mg/L	10	182762	08/15/13 00:00	08/16/13 00:00	EPA 515.3	D1
Pentachlorophenol	<0.00040	0.00040	mg/L	10	182762	08/15/13 00:00	08/16/13 00:00	EPA 515.3	D1
Picloram	<0.0010	0.0010	mg/L	10	182762	08/15/13 00:00	08/16/13 00:00	EPA 515.3	D1
Surrogate: SS-2,4-Dichlorophenylacetic acid		*160 %*		*36-196*	*182302*	*68/17/19*	*68/10/19*	*EPA 515.3*	*D1*
EPA 525.2									
Alachlor	<0.0002	0.0002	mg/L	1.43	182712	08/14/13 00:00	08/15/13 00:00	EPA 525.2	E7, S7, N1
Aldrin	<0.0001	0.0001	mg/L	1.43	182712	08/14/13 00:00	08/15/13 00:00	EPA 525.2	E7, S7, N1
Atrazine	<0.0001	0.0001	mg/L	1.43	182712	08/14/13 00:00	08/15/13 00:00	EPA 525.2	E7, S7, N1
Benzo(a)pyrene	<0.00003	0.00003	mg/L	1.43	182712	08/14/13 00:00	08/15/13 00:00	EPA 525.2	E7, S7, N1
Butachlor	<0.0001	0.0001	mg/L	1.43	182712	08/14/13 00:00	08/15/13 00:00	EPA 525.2	E7, S7, N1
Di(2-ethylhexyl)adipate	**0.0013**	0.0009	mg/L	1.43	182712	08/14/13 00:00	08/15/13 00:00	EPA 525.2	E7, S7, N1
Di(2-ethylhexyl)phthalate	**0.0027**	0.0009	mg/L	1.43	182712	08/14/13 00:00	08/15/13 00:00	EPA 525.2	E7, S7, N1
Dieldrin	<0.0001	0.0001	mg/L	1.43	182712	08/14/13 00:00	08/15/13 00:00	EPA 525.2	E7, S7, N1
Endrin	<0.00001	0.00001	mg/L	1.43	182712	08/14/13 00:00	08/15/13 00:00	EPA 525.2	E7, S7, N1
gamma-BHC (Lindane)	<0.00003	0.00003	mg/L	1.43	182712	08/14/13 00:00	08/15/13 00:00	EPA 525.2	E7, S7, N1
Heptachlor	<0.00006	0.00006	mg/L	1.43	182712	08/14/13 00:00	08/15/13 00:00	EPA 525.2	E7, S7, N1
Heptachlor epoxide	<0.00003	0.00003	mg/L	1.43	182712	08/14/13 00:00	08/15/13 00:00	EPA 525.2	E7, S7, N1
Hexachlorobenzene	<0.0001	0.0001	mg/L	1.43	182712	08/14/13 00:00	08/15/13 00:00	EPA 525.2	E7, S7, N1
Hexachlorocyclopentadiene	<0.0001	0.0001	mg/L	1.43	182712	08/14/13 00:00	08/16/13 00:00	EPA 525.2	E7, S7, N1
Methoxychlor	<0.0001	0.0001	mg/L	1.43	182712	08/14/13 00:00	08/15/13 00:00	EPA 525.2	E7, S7, N1
Metolachlor	<0.0001	0.0001	mg/L	1.43	182712	08/14/13 00:00	08/15/13 00:00	EPA 525.2	E7, S7, N1
Metribuzin	<0.0001	0.0001	mg/L	1.43	182712	08/14/13 00:00	08/15/13 00:00	EPA 525.2	E7, S7, N1
Propachlor	<0.0001	0.0001	mg/L	1.43	182712	08/14/13 00:00	08/15/13 00:00	EPA 525.2	E7, S7, N1
Simazine	<0.00010	0.00010	mg/L	1.43	182712	08/14/13 00:00	08/15/13 00:00	EPA 525.2	E7, S7, N1
Surrogate: SS-2,4,7,0-Tetrachloro-m-5ylene		*24 %*		*36-196*	*182312*	*68/14/19*	*68/17/19*	*EPA 525.2*	*S3*
Surrogate: SS-4,4'-Dichlorobiphenyl		*08 %*		*36-196*	*182312*	*68/14/19*	*68/17/19*	*EPA 525.2*	*S3*
Surrogate: SS-Triphenylphosphate		*078 %*		*36-196*	*182312*	*68/14/19*	*68/17/19*	*EPA 525.2*	*N1*

Hamp Well #2 (Z1,706) (3080358-01) Drinking Water (Grab) Sampled: 08/05/13 17:30 Received: 08/06/13 10:35

Analyte	Result	PQL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			UL#AZ0432						
EPA 548.1									
Endothall	<0.0090	0.0090	mg/L	1	182548	08/09/13 00:00	08/09/13 00:00	EPA 548.1	
Surrogate: SS-2,4-Dichlorophenylacetic acid		*x0 %*		*74-127*	*182748*	*68/6x/19*	*68/6x/19*	*EPA 548.1*	
EPA 549.2									
Diquat	<0.0004	0.0004	mg/L	1	182521	08/09/13 00:00	08/09/13 00:00	EPA 549.2	
			Radiation Safety Engineering #AZ0462						
Calculation									
Combined Radium	**1.6 ± 0.2**		pCi/L	1	NA		08/08/13 00:00	Calculation	
EPA 600/00-02									
Gross Alpha Activity	**4.3 ± 1.0**		pCi/L	1	NA		08/08/13 00:00	EPA 600/00-02	
EPA 903.1									
Radium 226 Activity	**0.7 ± 0.1**		pCi/L	1	NA		08/08/13 00:00	EPA 903.1	
EPA 904.0									
Radium 228 Activity	**0.9 ± 0.2**		pCi/L	1	NA		08/08/13 00:00	EPA 904.0	
			Pace Analytical Services, Inc.						
EPA-5 1613B-Tetras									
Dioxin	ND	0.0000000052	mg/L	1	13756	08/12/13 00:00	08/14/13 16:47	EPA-5 1613B-Tetras	
Surrogate: 19C-2,9,3,8-TCDD		*83 %*		*91-193*	*19370*	*68/12/19*	*68/14/19*	*EPA-5 1613B-Tetras*	
			Legend Technical Services, Inc. #AZ0557						
PESTICIDES/PCBS 505									
Aroclor 1016	<0.000080	0.000080	mg/L	1	B3H1414	08/14/13 12:09	08/14/13 21:05	EPA 505	
Aroclor 1221	<0.020	0.020	mg/L	1	B3H1414	08/14/13 12:09	08/14/13 21:05	EPA 505	
Aroclor 1232	<0.00050	0.00050	mg/L	1	B3H1414	08/14/13 12:09	08/14/13 21:05	EPA 505	
Aroclor 1242	<0.00030	0.00030	mg/L	1	B3H1414	08/14/13 12:09	08/14/13 21:05	EPA 505	
Aroclor 1248	<0.00010	0.00010	mg/L	1	B3H1414	08/14/13 12:09	08/14/13 21:05	EPA 505	
Aroclor 1254	<0.00010	0.00010	mg/L	1	B3H1414	08/14/13 12:09	08/14/13 21:05	EPA 505	
Aroclor 1260	<0.00020	0.00020	mg/L	1	B3H1414	08/14/13 12:09	08/14/13 21:05	EPA 505	
Chlordane	<0.00020	0.00020	mg/L	1	B3H1414	08/14/13 12:09	08/14/13 21:05	EPA 505	
Toxaphene	<0.0010	0.0010	mg/L	1	B3H1414	08/14/13 12:09	08/14/13 21:05	EPA 505	
Surrogate: Decachlorobiphenyl		*03.7 %*		*00.3-191*	*B9H1414*	*68/14/19*	*68/14/19*	*EPA 505*	

Hamp Well #2 (Z1,706) (3080358-01) Drinking Water (Grab) Sampled: 08/05/13 17:30 Received: 08/06/13 10:35

Legend Technical Services of Arizona, Inc.

Analyte	Result	PQL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Microbiology									
Total Coliforms, MPN	> 23.0	1.1	MPN/100 mL	1	B3H0334	08/06/13 13:05	08/06/13 13:05	SM 9221B	
Total Metals									
Aluminum	<2.00	2.00	mg/L	10	B3H0151	08/06/13 16:30	08/07/13 16:56	EPA 200.7	D1a
Antimony	<0.0025	0.0025	mg/L	5	B3H0152	08/06/13 16:30	08/07/13 14:35	EPA 200.8	D1a
Arsenic	**0.0041**	0.0010	mg/L	1	B3H0152	08/06/13 16:30	08/07/13 14:46	EPA 200.8	
Barium	**0.07**	0.01	mg/L	1	B3H0151	08/06/13 16:30	08/07/13 17:17	EPA 200.7	
Beryllium	<0.002	0.002	mg/L	1	B3H0151	08/06/13 16:30	08/07/13 17:17	EPA 200.7	
Cadmium	<0.0001	0.0001	mg/L	1	B3H0152	08/06/13 16:30	08/07/13 14:46	EPA 200.8	
Calcium	**43**	10	mg/L	10	B3H0151	08/06/13 16:30	08/07/13 16:56	EPA 200.7	D1a
Chromium	**0.006**	0.005	mg/L	1	B3H0151	08/06/13 16:30	08/07/13 17:17	EPA 200.7	
Copper	**0.04**	0.01	mg/L	1	B3H0151	08/06/13 16:30	08/07/13 17:17	EPA 200.7	
Iron	<0.50	0.50	mg/L	10	B3H0151	08/06/13 16:30	08/07/13 16:56	EPA 200.7	D1a
Lead	**0.0050**	0.0010	mg/L	1	B3H0152	08/06/13 16:30	08/07/13 14:46	EPA 200.8	
Magnesium	**1**	1	mg/L	1	B3H0151	08/06/13 16:30	08/07/13 17:17	EPA 200.7	
Manganese	<0.02	0.02	mg/L	1	B3H0151	08/06/13 16:30	08/07/13 17:17	EPA 200.7	
Mercury	<0.0002	0.0002	mg/L	1	B3H0253	08/08/13 09:23	08/08/13 15:00	EPA 245.1	
Nickel	<0.02	0.02	mg/L	1	B3H0151	08/06/13 16:30	08/07/13 17:17	EPA 200.7	
Selenium	<0.0020	0.0020	mg/L	1	B3H0152	08/06/13 16:30	08/08/13 10:40	EPA 200.8	
Silica, Total	**27.4**	2.1	mg/L	10	[CALC]	08/06/13 16:30	08/07/13 16:56	EPA 200.7	
Silicon	**12.8**	1.0	mg/L	10	B3H0151	08/06/13 16:30	08/07/13 16:56	EPA 200.7	D1a
Silver	<0.0001	0.0001	mg/L	1	B3H0152	08/06/13 16:30	08/07/13 14:46	EPA 200.8	
Sodium	**307**	10	mg/L	10	B3H0151	08/06/13 16:30	08/07/13 16:56	EPA 200.7	D1a
Thallium	<0.0005	0.0005	mg/L	1	B3H0152	08/06/13 16:30	08/07/13 14:46	EPA 200.8	
Calcium Hardness as CaCO3	**107**	25	mg/L	10	[CALC]	08/06/13 16:30	08/07/13 16:56	SM2340B	
Magnesium Hardness as CaCO3	**4**	4	mg/L	1	[CALC]	08/06/13 16:30	08/07/13 17:17	SM2340B	
Total Hardness as CaCO3	**111**	25	mg/L	10	[CALC]	08/06/13 16:30	08/07/13 17:17	SM2340B	
Zinc	**0.07**	0.02	mg/L	1	B3H0151	08/06/13 16:30	08/07/13 17:17	EPA 200.7	

Hamp Well #2 (Z1,706) (3080358-01) Drinking Water (Grab) Sampled: 08/05/13 17:30 Received: 08/06/13 10:35

Legend Technical Services of Arizona, Inc.

Analyte	Result	PQL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Inorganic Chemistry									
Total Alkalinity as CaCO3	**190**	10	mg/L	1	B3H0204	08/07/13 15:45	08/07/13 15:45	SM 2320 B	
Chloride	<5.0	5.0	mg/L	1	B3H0225	08/08/13 09:48	08/08/13 09:48	EPA 300.0	
Color	**35**	1	Color Units	1	B3H0194	08/07/13 11:55	08/07/13 11:55	SM 2120 B	N1a
Cyanide, Total	<0.010	0.010	mg/L	1	B3H0161	08/06/13 14:00	08/06/13 16:04	SM 4500 CN E	
Fluoride	**0.16**	0.10	mg/L	1	B3H0381	08/13/13 16:25	08/13/13 16:25	SM 4500 F C	
Nitrate as N	**1.52**	0.20	mg/L	1	[CALC]	08/09/13 11:20	08/09/13 11:20	Calculation	
Nitrate + Nitrite as N	**1.52**	0.20	mg/L	1	B3H0267	08/09/13 11:20	08/09/13 11:20	SM 4500 NO3 F	
Nitrite as N	<0.10	0.10	mg/L	1	B3H0188	08/06/13 17:10	08/06/13 17:10	SM 4500 NO2 B	
Threshold Odor Number	<1	1	T.O.N.	1	B3H0193	08/07/13 11:55	08/07/13 11:55	EPA 140.1	
pH	**9.1**		pH Units	1	B3H0211	08/08/13 10:50	08/08/13 10:50	SM 4500H B	H5
Temperature	**23.6**		°C	1	B3H0211	08/08/13 10:50	08/08/13 10:50	pH Temperature	H5
Sulfate	**7.4**	5.0	mg/L	1	B3H0225	08/08/13 09:48	08/08/13 09:48	EPA 300.0	
Total Dissolved Solids	**315**	1	mg/L	1	B3H0287	08/12/13 08:30	08/12/13 08:30	SM 2540 C	
Total Organic Carbon	<1.00	1.00	mg/L	1	B3H0218	08/07/13 16:51	08/07/13 16:51	SM 5310 C	
Volatile Organic Compounds									
1,1,1-Trichloroethane	<0.0005	0.0005	mg/L	1	B3H0258	08/09/13 08:00	08/09/13 18:27	EPA 524.2	
1,1,2-Trichloroethane	<0.0005	0.0005	mg/L	1	B3H0258	08/09/13 08:00	08/09/13 18:27	EPA 524.2	
1,1-Dichloroethene	<0.0005	0.0005	mg/L	1	B3H0258	08/09/13 08:00	08/09/13 18:27	EPA 524.2	
1,2,4-Trichlorobenzene	<0.0005	0.0005	mg/L	1	B3H0258	08/09/13 08:00	08/09/13 18:27	EPA 524.2	
1,2-Dichlorobenzene	<0.0005	0.0005	mg/L	1	B3H0258	08/09/13 08:00	08/09/13 18:27	EPA 524.2	
1,2-Dichloroethane	<0.0005	0.0005	mg/L	1	B3H0258	08/09/13 08:00	08/09/13 18:27	EPA 524.2	
1,2-Dichloropropane	<0.0005	0.0005	mg/L	1	B3H0258	08/09/13 08:00	08/09/13 18:27	EPA 524.2	
1,4-Dichlorobenzene	<0.0005	0.0005	mg/L	1	B3H0258	08/09/13 08:00	08/09/13 18:27	EPA 524.2	
Benzene	<0.0005	0.0005	mg/L	1	B3H0258	08/09/13 08:00	08/09/13 18:27	EPA 524.2	
Bromodichloromethane	<0.0005	0.0005	mg/L	1	B3H0258	08/09/13 08:00	08/09/13 18:27	EPA 524.2	
Bromoform	<0.0005	0.0005	mg/L	1	B3H0258	08/09/13 08:00	08/09/13 18:27	EPA 524.2	
Carbon tetrachloride	<0.0005	0.0005	mg/L	1	B3H0258	08/09/13 08:00	08/09/13 18:27	EPA 524.2	
Chlorobenzene	<0.0005	0.0005	mg/L	1	B3H0258	08/09/13 08:00	08/09/13 18:27	EPA 524.2	
Chloroform	<0.0005	0.0005	mg/L	1	B3H0258	08/09/13 08:00	08/09/13 18:27	EPA 524.2	
cis-1,2-Dichloroethylene	<0.0005	0.0005	mg/L	1	B3H0258	08/09/13 08:00	08/09/13 18:27	EPA 524.2	
Dibromochloromethane	<0.0005	0.0005	mg/L	1	B3H0258	08/09/13 08:00	08/09/13 18:27	EPA 524.2	
Dichloromethane	<0.0005	0.0005	mg/L	1	B3H0258	08/09/13 08:00	08/09/13 18:27	EPA 524.2	
Ethylbenzene	<0.0005	0.0005	mg/L	1	B3H0258	08/09/13 08:00	08/09/13 18:27	EPA 524.2	
m,p-Xylene	<0.0005	0.0005	mg/L	1	B3H0258	08/09/13 08:00	08/09/13 18:27	EPA 524.2	
o-Xylene	<0.0005	0.0005	mg/L	1	B3H0258	08/09/13 08:00	08/09/13 18:27	EPA 524.2	
Styrene	<0.0005	0.0005	mg/L	1	B3H0258	08/09/13 08:00	08/09/13 18:27	EPA 524.2	
Tetrachloroethene	<0.0005	0.0005	mg/L	1	B3H0258	08/09/13 08:00	08/09/13 18:27	EPA 524.2	
Toluene	<0.0005	0.0005	mg/L	1	B3H0258	08/09/13 08:00	08/09/13 18:27	EPA 524.2	
Total THMs	<0.0005	0.0005	mg/L	1	B3H0258	08/09/13 08:00	08/09/13 18:27	EPA 524.2	
trans-1,2-Dichloroethene	<0.0005	0.0005	mg/L	1	B3H0258	08/09/13 08:00	08/09/13 18:27	EPA 524.2	
Trichloroethene	<0.0005	0.0005	mg/L	1	B3H0258	08/09/13 08:00	08/09/13 18:27	EPA 524.2	
Vinyl chloride	<0.0005	0.0005	mg/L	1	B3H0258	08/09/13 08:00	08/09/13 18:27	EPA 524.2	
Xylenes (total)	<0.0005	0.0005	mg/L	1	B3H0258	08/09/13 08:00	08/09/13 18:27	EPA 524.2	
Surrogate: 1,2-Dichlorobenzene-d4		*163 %*		*36-196*	*B9H6278*	*68/6x/19*	*68/6x/19*	*EPA 524.2*	

Hamp Well #2 (Z1,706) (3080358-01) Drinking Water (Grab) Sampled: 08/05/13 17:30 Received: 08/06/13 10:35

Analyte	Result	PQL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Legend Technical Services of Arizona, Inc.									
Volatile Organic Compounds									
Surrogate: 1,2-Dichloroethane-d4		*x3 %*		*36-196*	*B9H6278*	*68/6x/19*	*68/6x/19*	*EPA 524.2*	
Surrogate: 4-Bromofluorobenzene		*x6 %*		*36-196*	*B9H6278*	*68/6x/19*	*68/6x/19*	*EPA 524.2*	
Surrogate: Pentafluorobenzene		*167 %*		*36-196*	*B9H6278*	*68/6x/19*	*68/6x/19*	*EPA 524.2*	
Miscellaneous									
Langlier Index	**1.45**	-5.00	N/A	1	B3H0359	08/13/13 15:47	08/14/13 14:43	Miscellaneous	
Semi-Volatile Organic Compounds									**D1a**
3-Hydroxycarbofuran	<0.0050	0.0050	mg/L	10	B3H0443	08/15/13 11:00	08/15/13 20:32	EPA 531.2	
Aldicarb	<0.0050	0.0050	mg/L	10	B3H0443	08/15/13 11:00	08/15/13 20:32	EPA 531.2	
Aldicarb sulfone	<0.0080	0.0080	mg/L	10	B3H0443	08/15/13 11:00	08/15/13 20:32	EPA 531.2	
Aldicarb sulfoxide	<0.0050	0.0050	mg/L	10	B3H0443	08/15/13 11:00	08/15/13 20:32	EPA 531.2	
Carbaryl	<0.0050	0.0050	mg/L	10	B3H0443	08/15/13 11:00	08/15/13 20:32	EPA 531.2	
Carbofuran	<0.0090	0.0090	mg/L	10	B3H0443	08/15/13 11:00	08/15/13 20:32	EPA 531.2	
Methomyl	<0.0050	0.0050	mg/L	10	B3H0443	08/15/13 11:00	08/15/13 20:32	EPA 531.2	
Oxamyl	<0.0200	0.0200	mg/L	10	B3H0443	08/15/13 11:00	08/15/13 20:32	EPA 531.2	
Surrogate: 4-Bromo-9,7-dimethylphenyl-N-methylcarbamate		*161 %*		*36-196*	*B9H6449*	*68/17/19*	*68/17/19*	*EPA 531.2*	
Herbicides									**D1a**
Glyphosate	<0.060	0.060	mg/L	10	B3H0181	08/08/13 10:00	08/09/13 06:51	EPA 547	
Fiberquant Analytical Services #AZ0633									
EPA 100.1									
Asbestos	<19.4	19.4	MFL	20	N/A	08/06/13 00:00	08/13/13 00:00	EPA 100.1	

Total Metals - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H0151 - EPA 200.7										
Blank (B3H0151-BLK1)				*Prepared: 68/60/19 Analyzed: 68/63/19*						
Aluminum	<0.20	0.20	mg/L							
Barium	<0.01	0.01	mg/L							
Beryllium	<0.002	0.002	mg/L							
Calcium	<1	1	mg/L							
Chromium	<0.005	0.005	mg/L							
Copper	<0.01	0.01	mg/L							
Iron	<0.05	0.05	mg/L							
Magnesium	<1	1	mg/L							
Manganese	<0.02	0.02	mg/L							
Nickel	<0.02	0.02	mg/L							
Silicon	<0.1	0.1	mg/L							
Sodium	<1	1	mg/L							
Zinc	<0.02	0.02	mg/L							
LCS (B3H0151-BS1)				*Prepared: 68/60/19 Analyzed: 68/63/19*						
Aluminum	1.98	0.20	mg/L	2.00		99	85-115			
Barium	1.02	0.01	mg/L	1.00		102	85-115			
Beryllium	0.195	0.002	mg/L	0.200		97	85-115			
Calcium	20	1	mg/L	20.0		98	85-115			
Chromium	0.495	0.005	mg/L	0.500		99	85-115			
Copper	0.98	0.01	mg/L	1.00		98	85-115			
Iron	0.99	0.05	mg/L	1.00		99	85-115			
Magnesium	20	1	mg/L	20.0		98	85-115			
Manganese	1.02	0.02	mg/L	1.00		102	85-115			
Nickel	0.99	0.02	mg/L	1.00		99	85-115			
Silicon	4.0	0.1	mg/L	4.00		100	85-115			
Sodium	20	1	mg/L	20.0		100	85-115			
Zinc	1.00	0.02	mg/L	1.00		100	85-115			

Total Metals - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H0151 - EPA 200.7										
Matrix Spike (B3H0151-MS1)		**Source: 3080358-01**		*Prepared: 68/60/19 Analyzed: 68/63/19*						
Barium	1.26	0.01	mg/L	1.00	0.07	119	70-130			
Beryllium	0.190	0.002	mg/L	0.200	<0.002	95	70-130			
Chromium	0.496	0.005	mg/L	0.500	0.006	98	70-130			
Copper	0.97	0.01	mg/L	1.00	0.04	94	70-130			
Magnesium	24	1	mg/L	20.0	1	112	70-130			
Manganese	1.18	0.02	mg/L	1.00	<0.02	118	70-130			
Nickel	0.96	0.02	mg/L	1.00	<0.02	96	75-125			
Zinc	1.01	0.02	mg/L	1.00	0.07	94	70-130			
Matrix Spike (B3H0151-MS2)		**Source: 3080358-01**		*Prepared: 68/60/19 Analyzed: 68/63/19*						
Aluminum	19.5	2.00	mg/L	20.0	0.0751	97	70-130			
Calcium	236	10	mg/L	200	43	97	70-130			
Iron	9.76	0.50	mg/L	10.0	0.20	96	70-130			
Silicon	51.3	1.0	mg/L	40.0	12.8	96	70-130			
Sodium	489	10	mg/L	200	307	91	70-130			
Matrix Spike Dup (B3H0151-MSD1)		**Source: 3080358-01**		*Prepared: 68/60/19 Analyzed: 68/63/19*						
Barium	1.26	0.01	mg/L	1.00	0.07	119	70-130	0.07	20	
Beryllium	0.190	0.002	mg/L	0.200	<0.002	95	70-130	0.03	20	
Chromium	0.495	0.005	mg/L	0.500	0.006	98	70-130	0.2	20	
Copper	0.97	0.01	mg/L	1.00	0.04	94	70-130	0.1	20	
Magnesium	23	1	mg/L	20.0	1	111	70-130	1	20	
Manganese	1.17	0.02	mg/L	1.00	<0.02	117	70-130	0.2	20	
Nickel	0.96	0.02	mg/L	1.00	<0.02	96	75-125	0.02	20	
Zinc	1.01	0.02	mg/L	1.00	0.07	94	70-130	0.3	20	
Matrix Spike Dup (B3H0151-MSD2)		**Source: 3080358-01**		*Prepared: 68/60/19 Analyzed: 68/63/19*						
Aluminum	19.4	2.00	mg/L	20.0	0.0751	97	70-130	0.4	20	
Calcium	235	10	mg/L	200	43	96	70-130	0.4	20	
Iron	9.93	0.50	mg/L	10.0	0.20	97	70-130	2	20	
Silicon	50.9	1.0	mg/L	40.0	12.8	95	70-130	0.7	20	
Sodium	490	10	mg/L	200	307	91	70-130	0.1	20	

Total Metals - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H0152 - EPA 200.8										
Blank (B3H0152-BLK1)				*Prepared: 68/60/19 Analyzed: 68/63/19*						
Antimony	<0.0005	0.0005	mg/L							
Arsenic	<0.0010	0.0010	mg/L							
Cadmium	<0.0001	0.0001	mg/L							
Lead	<0.0010	0.0010	mg/L							
Selenium	<0.0020	0.0020	mg/L							
Silver	<0.0001	0.0001	mg/L							
Thallium	<0.0005	0.0005	mg/L							
LCS (B3H0152-BS1)				*Prepared: 68/60/19 Analyzed: 68/63/19*						
Antimony	0.0273	0.0005	mg/L	0.0250		109	85-115			
Arsenic	0.0264	0.0010	mg/L	0.0250		105	85-115			
Cadmium	0.0273	0.0001	mg/L	0.0250		109	85-115			
Lead	0.0262	0.0010	mg/L	0.0250		105	85-115			
Selenium	0.0260	0.0020	mg/L	0.0250		104	85-115			
Silver	0.0262	0.0001	mg/L	0.0250		105	85-115			
Thallium	0.0252	0.0005	mg/L	0.0250		101	85-115			
Matrix Spike (B3H0152-MS1)		**Source: 3080351-05**		*Prepared: 68/60/19 Analyzed: 68/63/19*						
Antimony	0.0288	0.0005	mg/L	0.0250	0.00004	115	70-130			
Arsenic	0.0301	0.0010	mg/L	0.0250	0.0031	108	70-130			
Cadmium	0.0268	0.0001	mg/L	0.0250	<0.0001	107	70-130			
Lead	0.0268	0.0010	mg/L	0.0250	0.0009	103	70-130			
Silver	0.0228	0.0001	mg/L	0.0250	<0.0001	91	70-130			
Thallium	0.0226	0.0005	mg/L	0.0250	<0.0005	90	70-130			
Matrix Spike (B3H0152-MS2)		**Source: 3080358-01**		*Prepared: 68/60/19 Analyzed: 68/63/19*						
Arsenic	0.0271	0.0010	mg/L	0.0250	0.0041	92	70-130			
Cadmium	0.0270	0.0001	mg/L	0.0250	0.00004	108	70-130			
Lead	0.0246	0.0010	mg/L	0.0250	0.0050	78	70-130			
Selenium	0.0229	0.0020	mg/L	0.0250	<0.0020	91	70-130			
Silver	0.0219	0.0001	mg/L	0.0250	<0.0001	87	70-130			
Thallium	0.0250	0.0005	mg/L	0.0250	0.00009	100	70-130			

Total Metals - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H0152 - EPA 200.8										
Matrix Spike (B3H0152-MS3)		**Source: 3080358-01**		*Prepared: 68/60/19 Analyzed: 68/63/19*						
Antimony	0.132	0.0025	mg/L	0.125	0.0001	105	70-130			
Matrix Spike Dup (B3H0152-MSD1)		**Source: 3080351-05**		*Prepared: 68/60/19 Analyzed: 68/63/19*						
Antimony	0.0286	0.0005	mg/L	0.0250	0.00004	114	70-130	0.8	20	
Arsenic	0.0302	0.0010	mg/L	0.0250	0.0031	108	70-130	0.4	20	
Cadmium	0.0266	0.0001	mg/L	0.0250	<0.0001	106	70-130	0.7	20	
Lead	0.0268	0.0010	mg/L	0.0250	0.0009	103	70-130	0.2	20	
Silver	0.0223	0.0001	mg/L	0.0250	<0.0001	89	70-130	2	20	
Thallium	0.0242	0.0005	mg/L	0.0250	<0.0005	97	70-130	7	20	
Matrix Spike Dup (B3H0152-MSD2)		**Source: 3080358-01**		*Prepared: 68/60/19 Analyzed: 68/63/19*						
Arsenic	0.0271	0.0010	mg/L	0.0250	0.0041	92	70-130	0.2	20	
Cadmium	0.0272	0.0001	mg/L	0.0250	0.00004	109	70-130	0.8	20	
Lead	0.0260	0.0010	mg/L	0.0250	0.0050	84	70-130	6	20	
Selenium	0.0226	0.0020	mg/L	0.0250	<0.0020	90	70-130	1	20	
Silver	0.0217	0.0001	mg/L	0.0250	<0.0001	87	70-130	0.6	20	
Thallium	0.0268	0.0005	mg/L	0.0250	0.00009	107	70-130	7	20	
Matrix Spike Dup (B3H0152-MSD3)		**Source: 3080358-01**		*Prepared: 68/60/19 Analyzed: 68/63/19*						
Antimony	0.132	0.0025	mg/L	0.125	0.0001	106	70-130	0.6	20	
Batch B3H0253 - EPA 245.1/245.2 Prep										
Blank (B3H0253-BLK1)				*Prepared & Analyzed: 68/68/19*						
Mercury	<0.0002	0.0002	mg/L							
LCS (B3H0253-BS1)				*Prepared & Analyzed: 68/68/19*						
Mercury	0.00099	0.0002	mg/L	0.00100		99	85-115			

Total Metals - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H0253 - EPA 245.1/245.2 Prep										
Matrix Spike (B3H0253-MS1)		**Source: 3080219-01**		*Prepared & Analyzed: 68/68/19*						
Mercury	0.00101	0.0002	mg/L	0.00100	<0.0002	101	70-130			
Matrix Spike (B3H0253-MS2)		**Source: 3080349-01**		*Prepared & Analyzed: 68/68/19*						
Mercury	0.00100	0.0002	mg/L	0.00100	<0.0002	100	70-130			
Matrix Spike Dup (B3H0253-MSD1)		**Source: 3080219-01**		*Prepared & Analyzed: 68/68/19*						
Mercury	0.00102	0.0002	mg/L	0.00100	<0.0002	102	70-130	1	20	
Matrix Spike Dup (B3H0253-MSD2)		**Source: 3080349-01**		*Prepared & Analyzed: 68/68/19*						
Mercury	0.00099	0.0002	mg/L	0.00100	<0.0002	99	70-130	1	20	

Inorganic Chemistry - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H0161 - NO PREP										
Blank (B3H0161-BLK1)				*Prepared & Analyzed: 68/60/19*						
Cyanide, Total	<0.010	0.010	mg/L							
LCS (B3H0161-BS1)				*Prepared & Analyzed: 68/60/19*						
Cyanide, Total	0.050	0.010	mg/L	0.0500		100	80-120			
LCS Dup (B3H0161-BSD1)				*Prepared & Analyzed: 68/60/19*						
Cyanide, Total	0.050	0.010	mg/L	0.0500		100	80-120	0	20	
Matrix Spike (B3H0161-MS1)		**Source: 3072743-01**		*Prepared & Analyzed: 68/60/19*						
Cyanide, Total	0.048	0.010	mg/L	0.0500	<0.010	96	80-120			
Matrix Spike Dup (B3H0161-MSD1)		**Source: 3072743-01**		*Prepared & Analyzed: 68/60/19*						
Cyanide, Total	0.048	0.010	mg/L	0.0500	<0.010	96	80-120	0	20	
Batch B3H0188 - NO PREP										
Blank (B3H0188-BLK1)				*Prepared & Analyzed: 68/60/19*						
Nitrite as N	<0.10	0.10	mg/L							
LCS (B3H0188-BS1)				*Prepared & Analyzed: 68/60/19*						
Nitrite as N	0.200	0.10	mg/L	0.200		100	80-120			
LCS Dup (B3H0188-BSD1)				*Prepared & Analyzed: 68/60/19*						
Nitrite as N	0.200	0.10	mg/L	0.200		100	80-120	0	20	
Matrix Spike (B3H0188-MS1)		**Source: 3080349-01**		*Prepared & Analyzed: 68/60/19*						
Nitrite as N	0.189	0.10	mg/L	0.200	<0.10	94	80-120			

Inorganic Chemistry - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H0188 - NO PREP										
Matrix Spike Dup (B3H0188-MSD1)		**Source: 3080349-01**		*Prepared & Analyzed: 68/60/19*						
Nitrite as N	0.190	0.10	mg/L	0.200	<0.10	95	80-120	0.5	20	
Batch B3H0194 - NO PREP										
Duplicate (B3H0194-DUP1)		**Source: 3080358-01**		*Prepared & Analyzed: 68/63/19*						
Color	35	1	Color Units		35			0	20	
Batch B3H0204 - NO PREP										
Blank (B3H0204-BLK1)				*Prepared & Analyzed: 68/63/19*						
Total Alkalinity as CaCO3	<10	10	mg/L							
LCS (B3H0204-BS1)				*Prepared & Analyzed: 68/63/19*						
Total Alkalinity as CaCO3	196	10	mg/L	200		98	80-120			
LCS Dup (B3H0204-BSD1)				*Prepared & Analyzed: 68/63/19*						
Total Alkalinity as CaCO3	196	10	mg/L	200		98	80-120	0.2	20	
Matrix Spike (B3H0204-MS1)		**Source: 3072448-01**		*Prepared & Analyzed: 68/63/19*						
Total Alkalinity as CaCO3	357	10	mg/L	200	165	96	80-120			
Matrix Spike Dup (B3H0204-MSD1)		**Source: 3072448-01**		*Prepared & Analyzed: 68/63/19*						
Total Alkalinity as CaCO3	356	10	mg/L	200	165	96	80-120	0.1	20	
Batch B3H0211 - NO PREP										
Duplicate (B3H0211-DUP1)		**Source: 3080623-01**		*Prepared & Analyzed: 68/68/19*						
pH	6.7		pH Units		6.7			0.4	10	
Temperature	15.3		°C		15.4			0.651	200	

Inorganic Chemistry - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H0218 - NO PREP										
Blank (B3H0218-BLK1)				*Prepared & Analyzed: 68/63/19*						
Total Organic Carbon	<1.00	1.00	mg/L							
LCS (B3H0218-BS1)				*Prepared & Analyzed: 68/63/19*						
Total Organic Carbon	10.5	1.00	mg/L	10.0		105	80-120			
LCS Dup (B3H0218-BSD1)				*Prepared & Analyzed: 68/63/19*						
Total Organic Carbon	10.5	1.00	mg/L	10.0		105	80-120	0	20	
Matrix Spike (B3H0218-MS1)		**Source: 3080398-01**		*Prepared & Analyzed: 68/63/19*						
Total Organic Carbon	14.3	1.00	mg/L	10.0	4.07	102	80-120			
Matrix Spike Dup (B3H0218-MSD1)		**Source: 3080398-01**		*Prepared & Analyzed: 68/63/19*						
Total Organic Carbon	14.3	1.00	mg/L	10.0	4.07	102	80-120	0	20	
Batch B3H0225 - NO PREP										
Blank (B3H0225-BLK1)				*Prepared & Analyzed: 68/68/19*						
Chloride	<5.0	5.0	mg/L							
Sulfate	<5.0	5.0	mg/L							
LCS (B3H0225-BS1)				*Prepared & Analyzed: 68/68/19*						
Chloride	9.9	5.0	mg/L	10.0		99	90-110			
Sulfate	19.7	5.0	mg/L	20.0		98	90-110			
LCS Dup (B3H0225-BSD1)				*Prepared & Analyzed: 68/68/19*						
Chloride	10.0	5.0	mg/L	10.0		100	90-110	0.8	20	
Sulfate	19.8	5.0	mg/L	20.0		99	90-110	0.5	20	

Inorganic Chemistry - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H0225 - NO PREP										
Matrix Spike (B3H0225-MS1)		**Source: 3080109-01**		*Prepared & Analyzed: 68/68/19*						
Chloride	14.4	5.0	mg/L	10.0	5.1	93	90-110			
Sulfate	19.8	5.0	mg/L	20.0	0.6	96	90-110			
Matrix Spike Dup (B3H0225-MSD1)		**Source: 3080109-01**		*Prepared & Analyzed: 68/68/19*						
Chloride	14.3	5.0	mg/L	10.0	5.1	92	90-110	0.7	20	
Sulfate	20.0	5.0	mg/L	20.0	0.6	97	90-110	1	20	
Batch B3H0267 - NO PREP										
Blank (B3H0267-BLK1)				*Prepared & Analyzed: 68/6x/19*						
Nitrate + Nitrite as N	<0.20	0.20	mg/L							
Blank (B3H0267-BLK2)				*Prepared & Analyzed: 68/6x/19*						
Nitrate + Nitrite as N	<0.20	0.20	mg/L							
Blank (B3H0267-BLK3)				*Prepared & Analyzed: 68/6x/19*						
Nitrate + Nitrite as N	<0.20	0.20	mg/L							
Blank (B3H0267-BLK4)				*Prepared & Analyzed: 68/6x/19*						
Nitrate + Nitrite as N	<0.20	0.20	mg/L							
LCS (B3H0267-BS1)				*Prepared & Analyzed: 68/6x/19*						
Nitrate + Nitrite as N	10.3	0.20	mg/L	10.0		103	90-110			
LCS (B3H0267-BS2)				*Prepared & Analyzed: 68/6x/19*						
Nitrate + Nitrite as N	10.5	0.20	mg/L	10.0		105	90-110			

Inorganic Chemistry - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H0267 - NO PREP										
LCS Dup (B3H0267-BSD1)				*Prepared & Analyzed: 68/6x/19*						
Nitrate + Nitrite as N	10.4	0.20	mg/L	10.0		104	90-110	1	20	
LCS Dup (B3H0267-BSD2)				*Prepared & Analyzed: 68/6x/19*						
Nitrate + Nitrite as N	10.3	0.20	mg/L	10.0		103	90-110	2	20	
Matrix Spike (B3H0267-MS1)		**Source: 3080292-02**		*Prepared & Analyzed: 68/6x/19*						
Nitrate + Nitrite as N	16.7	0.20	mg/L	10.0	6.51	102	80-120			
Matrix Spike (B3H0267-MS2)		**Source: 3080311-04**		*Prepared & Analyzed: 68/6x/19*						
Nitrate + Nitrite as N	10.1	0.20	mg/L	10.0	<0.20	101	80-120			
Matrix Spike (B3H0267-MS3)		**Source: 3080462-01**		*Prepared & Analyzed: 68/6x/19*						
Nitrate + Nitrite as N	13.1	0.20	mg/L	10.0	2.86	102	80-120			
Matrix Spike (B3H0267-MS4)		**Source: 3080563-01**		*Prepared & Analyzed: 68/6x/19*						
Nitrate + Nitrite as N	12.4	0.20	mg/L	10.0	2.14	103	80-120			
Matrix Spike Dup (B3H0267-MSD1)		**Source: 3080292-02**		*Prepared & Analyzed: 68/6x/19*						
Nitrate + Nitrite as N	16.6	0.20	mg/L	10.0	6.51	101	80-120	0.6	20	
Matrix Spike Dup (B3H0267-MSD2)		**Source: 3080311-04**		*Prepared & Analyzed: 68/6x/19*						
Nitrate + Nitrite as N	10.4	0.20	mg/L	10.0	<0.20	104	80-120	3	20	
Matrix Spike Dup (B3H0267-MSD3)		**Source: 3080462-01**		*Prepared & Analyzed: 68/6x/19*						
Nitrate + Nitrite as N	13.3	0.20	mg/L	10.0	2.86	104	80-120	2	20	
Matrix Spike Dup (B3H0267-MSD4)		**Source: 3080563-01**		*Prepared & Analyzed: 68/6x/19*						
Nitrate + Nitrite as N	12.8	0.20	mg/L	10.0	2.14	107	80-120	3	20	

Inorganic Chemistry - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H0287 - NO PREP										
Blank (B3H0287-BLK1)				*Prepared & Analyzed: 68/12/19*						
Total Dissolved Solids	<1	1	mg/L							
Duplicate (B3H0287-DUP1)		**Source: 3080255-01**		*Prepared & Analyzed: 68/12/19*						
Total Dissolved Solids	308	1	mg/L		294			5	5	
Batch B3H0381 - NO PREP										
Blank (B3H0381-BLK1)				*Prepared & Analyzed: 68/19/19*						
Fluoride	<0.10	0.10	mg/L							
LCS (B3H0381-BS1)				*Prepared & Analyzed: 68/19/19*						
Fluoride	2.01	0.10	mg/L	2.00		100	90-110			
LCS Dup (B3H0381-BSD1)				*Prepared & Analyzed: 68/19/19*						
Fluoride	2.02	0.10	mg/L	2.00		101	90-110	0.5	20	
Matrix Spike (B3H0381-MS1)		**Source: 3080194-01**		*Prepared & Analyzed: 68/19/19*						
Fluoride	2.18	0.10	mg/L	2.00	0.18	100	90-110			
Matrix Spike Dup (B3H0381-MSD1)		**Source: 3080194-01**		*Prepared & Analyzed: 68/19/19*						
Fluoride	2.15	0.10	mg/L	2.00	0.18	99	90-110	1	20	

Volatile Organic Compounds - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H0258 - Default Prep VOC										
Blank (B3H0258-BLK1)				*Prepared & Analyzed: 68/6x/19*						
1,1,1-Trichloroethane	<0.0005	0.0005	mg/L							
1,1,2-Trichloroethane	<0.0005	0.0005	mg/L							
1,1-Dichloroethene	<0.0005	0.0005	mg/L							
1,2,4-Trichlorobenzene	<0.0005	0.0005	mg/L							
1,2-Dichlorobenzene	<0.0005	0.0005	mg/L							
1,2-Dichloroethane	<0.0005	0.0005	mg/L							
1,2-Dichloropropane	<0.0005	0.0005	mg/L							
1,4-Dichlorobenzene	<0.0005	0.0005	mg/L							
Benzene	<0.0005	0.0005	mg/L							
Bromodichloromethane	<0.0005	0.0005	mg/L							
Bromoform	<0.0005	0.0005	mg/L							
Carbon tetrachloride	<0.0005	0.0005	mg/L							
Chlorobenzene	<0.0005	0.0005	mg/L							
Chloroform	<0.0005	0.0005	mg/L							
cis-1,2-Dichloroethylene	<0.0005	0.0005	mg/L							
Dibromochloromethane	<0.0005	0.0005	mg/L							
Dichloromethane	<0.0005	0.0005	mg/L							
Ethylbenzene	<0.0005	0.0005	mg/L							
m,p-Xylene	<0.0005	0.0005	mg/L							
o-Xylene	<0.0005	0.0005	mg/L							
Styrene	<0.0005	0.0005	mg/L							
Tetrachloroethene	<0.0005	0.0005	mg/L							
Toluene	<0.0005	0.0005	mg/L							
Total THMs	<0.0005	0.0005	mg/L							
trans-1,2-Dichloroethene	<0.0005	0.0005	mg/L							
Trichloroethene	<0.0005	0.0005	mg/L							
Vinyl chloride	<0.0005	0.0005	mg/L							
Xylenes (total)	<0.0005	0.0005	mg/L							

Volatile Organic Compounds - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H0258 - Default Prep VOC										
LCS (B3H0258-BS1)				*Prepared & Analyzed: 68/6x/19*						
1,1,1-Trichloroethane	0.0021	0.0005	mg/L	0.00200		104	70-130			
1,1,2-Trichloroethane	0.0022	0.0005	mg/L	0.00200		108	70-130			
1,1-Dichloroethene	0.0021	0.0005	mg/L	0.00200		104	70-130			
1,2,4-Trichlorobenzene	0.0018	0.0005	mg/L	0.00200		91	70-130			
1,2-Dichlorobenzene	0.0020	0.0005	mg/L	0.00200		102	70-130			
1,2-Dichloroethane	0.0020	0.0005	mg/L	0.00200		98	70-130			
1,2-Dichloropropane	0.0020	0.0005	mg/L	0.00200		99	70-130			
1,4-Dichlorobenzene	0.0020	0.0005	mg/L	0.00200		102	70-130			
Benzene	0.0020	0.0005	mg/L	0.00200		101	70-130			
Bromodichloromethane	0.0020	0.0005	mg/L	0.00200		99	70-130			
Bromoform	0.0021	0.0005	mg/L	0.00200		104	70-130			
Carbon tetrachloride	0.0023	0.0005	mg/L	0.00200		115	70-130			
Chlorobenzene	0.0020	0.0005	mg/L	0.00200		102	70-130			
Chloroform	0.0021	0.0005	mg/L	0.00200		104	70-130			
cis-1,2-Dichloroethylene	0.0021	0.0005	mg/L	0.00200		106	70-130			
Dibromochloromethane	0.0022	0.0005	mg/L	0.00200		110	70-130			
Dichloromethane	0.0020	0.0005	mg/L	0.00200		100	70-130			
Ethylbenzene	0.0019	0.0005	mg/L	0.00200		96	70-130			
m,p-Xylene	0.0039	0.0005	mg/L	0.00400		97	70-130			
o-Xylene	0.0019	0.0005	mg/L	0.00200		97	70-130			
Styrene	0.0019	0.0005	mg/L	0.00200		95	70-130			
Tetrachloroethene	0.0022	0.0005	mg/L	0.00200		112	70-130			
Toluene	0.0022	0.0005	mg/L	0.00200		108	70-130			
Total THMs	0.0084	0.0005	mg/L	0.00800		104	0-200			
trans-1,2-Dichloroethene	0.0021	0.0005	mg/L	0.00200		104	70-130			
Trichloroethene	0.0021	0.0005	mg/L	0.00200		104	70-130			
Vinyl chloride	0.0022	0.0005	mg/L	0.00200		108	70-130			
Xylenes (total)	0.0058	0.0005	mg/L	0.00600		97	0-200			

Volatile Organic Compounds - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H0258 - Default Prep VOC										
LCS Dup (B3H0258-BSD1)				*Prepared & Analyzed: 68/6x/19*						
1,1,1-Trichloroethane	0.0022	0.0005	mg/L	0.00200		110	70-130	5	20	
1,1,2-Trichloroethane	0.0021	0.0005	mg/L	0.00200		104	70-130	5	20	
1,1-Dichloroethene	0.0020	0.0005	mg/L	0.00200		100	70-130	3	20	
1,2,4-Trichlorobenzene	0.0018	0.0005	mg/L	0.00200		91	70-130	0	20	
1,2-Dichlorobenzene	0.0021	0.0005	mg/L	0.00200		104	70-130	2	20	
1,2-Dichloroethane	0.0020	0.0005	mg/L	0.00200		98	70-130	0.5	20	
1,2-Dichloropropane	0.0019	0.0005	mg/L	0.00200		93	70-130	6	20	
1,4-Dichlorobenzene	0.0020	0.0005	mg/L	0.00200		102	70-130	0.5	20	
Benzene	0.0021	0.0005	mg/L	0.00200		103	70-130	2	20	
Bromodichloromethane	0.0019	0.0005	mg/L	0.00200		96	70-130	3	20	
Bromoform	0.0021	0.0005	mg/L	0.00200		105	70-130	0.5	20	
Carbon tetrachloride	0.0023	0.0005	mg/L	0.00200		113	70-130	2	20	
Chlorobenzene	0.0020	0.0005	mg/L	0.00200		101	70-130	0.5	20	
Chloroform	0.0021	0.0005	mg/L	0.00200		106	70-130	1	20	
cis-1,2-Dichloroethylene	0.0018	0.0005	mg/L	0.00200		92	70-130	14	20	
Dibromochloromethane	0.0021	0.0005	mg/L	0.00200		106	70-130	3	20	
Dichloromethane	0.0020	0.0005	mg/L	0.00200		100	70-130	1	20	
Ethylbenzene	0.0019	0.0005	mg/L	0.00200		94	70-130	2	20	
m,p-Xylene	0.0039	0.0005	mg/L	0.00400		96	70-130	1	20	
o-Xylene	0.0019	0.0005	mg/L	0.00200		96	70-130	2	20	
Styrene	0.0019	0.0005	mg/L	0.00200		95	70-130	0	20	
Tetrachloroethene	0.0021	0.0005	mg/L	0.00200		104	70-130	7	20	
Toluene	0.0018	0.0005	mg/L	0.00200		92	70-130	15	20	
Total THMs	0.0082	0.0005	mg/L	0.00800		102	0-200	2	200	
trans-1,2-Dichloroethene	0.0021	0.0005	mg/L	0.00200		103	70-130	1	20	
Trichloroethene	0.0020	0.0005	mg/L	0.00200		102	70-130	1	20	
Vinyl chloride	0.0022	0.0005	mg/L	0.00200		108	70-130	0.5	20	
Xylenes (total)	0.0058	0.0005	mg/L	0.00600		96	0-200	1	200	

Semi-Volatile Organic Compounds - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H0443 - Default Prep GC-Semi										
Blank (B3H0443-BLK1)				*Prepared & Analyzed: 68/17/19*						
3-Hydroxycarbofuran	<0.0005	0.0005	mg/L							
Aldicarb	<0.0005	0.0005	mg/L							
Aldicarb sulfone	<0.0008	0.0008	mg/L							
Aldicarb sulfoxide	<0.0005	0.0005	mg/L							
Carbaryl	<0.0005	0.0005	mg/L							
Carbofuran	<0.0009	0.0009	mg/L							
Methomyl	<0.0005	0.0005	mg/L							
Oxamyl	<0.0020	0.0020	mg/L							
LCS (B3H0443-BS1)				*Prepared & Analyzed: 68/17/19*						
3-Hydroxycarbofuran	0.0020	0.0005	mg/L	0.00200		102	70-130			
Aldicarb	0.0020	0.0005	mg/L	0.00200		102	70-130			
Aldicarb sulfone	0.0021	0.0008	mg/L	0.00200		103	70-130			
Aldicarb sulfoxide	0.0022	0.0005	mg/L	0.00200		108	70-130			
Carbaryl	0.0021	0.0005	mg/L	0.00200		104	70-130			
Carbofuran	0.0021	0.0009	mg/L	0.00200		105	70-130			
Methomyl	0.0021	0.0005	mg/L	0.00200		105	70-130			
Oxamyl	0.0021	0.0020	mg/L	0.00200		106	70-130			
LCS Dup (B3H0443-BSD1)				*Prepared & Analyzed: 68/17/19*						
3-Hydroxycarbofuran	0.0021	0.0005	mg/L	0.00200		103	70-130	0.3	20	
Aldicarb	0.0020	0.0005	mg/L	0.00200		102	70-130	0.2	20	
Aldicarb sulfone	0.0021	0.0008	mg/L	0.00200		103	70-130	0.2	20	
Aldicarb sulfoxide	0.0022	0.0005	mg/L	0.00200		108	70-130	0.4	20	
Carbaryl	0.0021	0.0005	mg/L	0.00200		104	70-130	0.2	20	
Carbofuran	0.0021	0.0009	mg/L	0.00200		105	70-130	0.2	20	
Methomyl	0.0021	0.0005	mg/L	0.00200		105	70-130	0.2	20	
Oxamyl	0.0021	0.0020	mg/L	0.00200		105	70-130	0.9	20	

Semi-Volatile Organic Compounds - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H0443 - Default Prep GC-Semi										
Matrix Spike (B3H0443-MS1)		**Source: 3080462-01**		*Prepared & Analyzed: 68/17/19*						
3-Hydroxycarbofuran	0.0021	0.0005	mg/L	0.00200	<0.0005	103	70-130			
Aldicarb	0.0020	0.0005	mg/L	0.00200	<0.0005	102	70-130			
Aldicarb sulfone	0.0021	0.0008	mg/L	0.00200	<0.0008	106	70-130			
Aldicarb sulfoxide	0.0022	0.0005	mg/L	0.00200	<0.0005	112	70-130			
Carbaryl	0.0021	0.0005	mg/L	0.00200	<0.0005	104	70-130			
Carbofuran	0.0021	0.0009	mg/L	0.00200	<0.0009	105	70-130			
Methomyl	0.0021	0.0005	mg/L	0.00200	<0.0005	107	70-130			
Oxamyl	0.0021	0.0020	mg/L	0.00200	<0.0020	107	70-130			
Matrix Spike Dup (B3H0443-MSD1)		**Source: 3080462-01**		*Prepared & Analyzed: 68/17/19*						
3-Hydroxycarbofuran	0.0021	0.0005	mg/L	0.00200	<0.0005	103	70-130	0.1	30	
Aldicarb	0.0020	0.0005	mg/L	0.00200	<0.0005	102	70-130	0.4	30	
Aldicarb sulfone	0.0021	0.0008	mg/L	0.00200	<0.0008	105	70-130	0.5	30	
Aldicarb sulfoxide	0.0022	0.0005	mg/L	0.00200	<0.0005	112	70-130	0.3	30	
Carbaryl	0.0021	0.0005	mg/L	0.00200	<0.0005	104	70-130	0.4	30	
Carbofuran	0.0021	0.0009	mg/L	0.00200	<0.0009	104	70-130	0.9	30	
Methomyl	0.0021	0.0005	mg/L	0.00200	<0.0005	106	70-130	0.4	30	
Oxamyl	0.0022	0.0020	mg/L	0.00200	<0.0020	108	70-130	0.2	30	

Herbicides - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H0181 - Default Prep GC-Semi										
Blank (B3H0181-BLK1)				*Prepared & Analyzed: 68/68/19*						
Glyphosate	<0.006	0.006	mg/L							
LCS (B3H0181-BS1)				*Prepared & Analyzed: 68/68/19*						
Glyphosate	0.054	0.006	mg/L	0.0500		108	70-130			
LCS Dup (B3H0181-BSD1)				*Prepared & Analyzed: 68/68/19*						
Glyphosate	0.049	0.006	mg/L	0.0500		97	70-130	10	20	
Matrix Spike (B3H0181-MS1)		**Source: 3072452-01**		*Prepared & Analyzed: 68/68/19*						
Glyphosate	0.051	0.006	mg/L	0.0500	<0.006	103	70-130			
Matrix Spike Dup (B3H0181-MSD1)		**Source: 3072452-01**		*Prepared & Analyzed: 68/68/19*						
Glyphosate	0.051	0.006	mg/L	0.0500	<0.006	101	70-130	2	20	

PESTICIDES/PCBS 505 - Quality Control

Legend Technical Services, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H1414 - EPA 500 Series										
Blank (B3H1414-BLK1)				*Prepared & Analyzed: 68/14/19*						
Aroclor 1016	<0.000080	0.000080	mg/L							
Aroclor 1221	<0.020	0.020	mg/L							
Aroclor 1232	<0.00050	0.00050	mg/L							
Aroclor 1242	<0.00030	0.00030	mg/L							
Aroclor 1248	<0.00010	0.00010	mg/L							
Aroclor 1254	<0.00010	0.00010	mg/L							
Aroclor 1260	<0.00020	0.00020	mg/L							
Chlordane	<0.00020	0.00020	mg/L							
Toxaphene	<0.0010	0.0010	mg/L							
LCS (B3H1414-BS1)				*Prepared & Analyzed: 68/14/19*						
Toxaphene	0.00223	0.0010	mg/L	0.00200		111	70-130			
LCS Dup (B3H1414-BSD1)				*Prepared & Analyzed: 68/14/19*						
Toxaphene	0.00202	0.0010	mg/L	0.00200		101	70-130	9.99	20	
Matrix Spike (B3H1414-MS1)		**Source: 1303732-01**		*Prepared & Analyzed: 68/14/19*						
Toxaphene	0.00189	0.0010	mg/L	0.00196	<0.0010	96.4	65-135			

EPA 504.1 - Quality Control

UL#AZ0432

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 182492 - MLLE										
Blank (2873191)		**Source: 41048**		*Prepared & Analyzed: 68/68/19*						
1,2-Dibromo-3-chloropropane (DBCP)	<0.00002	0.00002	mg/L				-			
1,2-Dibromoethane (EDB)	<0.00001	0.00001	mg/L				-			
Reference (2873192)		**Source: 41048**		*Prepared & Analyzed: 68/68/19*						
1,2-Dibromo-3-chloropropane (DBCP)	0.00002	0.00002	mg/L	0.00002		110	60-140			
1,2-Dibromoethane (EDB)	0.00002	0.00001	mg/L	0.00002		116	60-140			
Reference (2873193)		**Source: 41048**		*Prepared & Analyzed: 68/68/19*						
1,2-Dibromo-3-chloropropane (DBCP)	0.00010	0.00002	mg/L	0.0001		102	70-130			
1,2-Dibromoethane (EDB)	0.00010	0.00001	mg/L	0.0001		96	70-130			
Reference (2873194)		**Source: 41048**		*Prepared: 68/68/19 Analyzed: 68/6x/19*						
1,2-Dibromo-3-chloropropane (DBCP)	0.00010	0.00002	mg/L	0.0001		104	70-130			
1,2-Dibromoethane (EDB)	0.00009	0.00001	mg/L	0.0001		91	70-130			
LCS (2873195)		**Source: 41048**		*Prepared & Analyzed: 68/68/19*						
1,2-Dibromo-3-chloropropane (DBCP)	0.00023	0.00002	mg/L	0.000257		89	70-130			
1,2-Dibromoethane (EDB)	0.00020	0.00001	mg/L	0.000257		80	70-130			
LCS (2873196)		**Source: 41048**		*Prepared & Analyzed: 68/68/19*						
1,2-Dibromo-3-chloropropane (DBCP)	0.00024	0.00002	mg/L	0.000257		94	70-130			
1,2-Dibromoethane (EDB)	0.00021	0.00001	mg/L	0.000257		82	70-130			

EPA 515.3 - Quality Control

UL#AZ0432

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 182762 - MLLE										
Blank (2877349)		**Source: 41130**		*Prepared: 68/17/19 Analyzed: 68/10/19*						
2,4,5-TP (Silvex)	<0.0002	0.0002	mg/L				-			
2,4-D	<0.0001	0.0001	mg/L				-			
Dalapon	<0.0010	0.0010	mg/L				-			
Dicamba	<0.0001	0.0001	mg/L				-			
Dinoseb	<0.0002	0.0002	mg/L				-			
Pentachlorophenol	<0.00004	0.00004	mg/L				-			
Picloram	<0.0001	0.0001	mg/L				-			
LCS (2877350)		**Source: 41130**		*Prepared: 68/17/19 Analyzed: 68/10/19*						
2,4,5-TP (Silvex)	<0.0002	0.0002	mg/L	0.0001		88	48-148			
2,4-D	0.0003	0.0001	mg/L	0.0002		139	24-138			N4
Dinoseb	0.0002	0.0002	mg/L	0.0002		111	39-141			
Pentachlorophenol	0.00004	0.00004	mg/L	0.00004		110	30-171			
Picloram	0.0001	0.0001	mg/L	0.0001		121	24-150			
Reference (2877360)		**Source: 41130**		*Prepared: 68/17/19 Analyzed: 68/10/19*						
2,4,5-TP (Silvex)	0.0005	0.0002	mg/L	0.0005		110	70-130			
2,4-D	0.0013	0.0001	mg/L	0.001		130	70-130			
Dalapon	0.0011	0.0010	mg/L	0.001		112	70-130			
Dicamba	0.0011	0.0001	mg/L	0.001		111	70-130			
Dinoseb	0.0011	0.0002	mg/L	0.001		108	70-130			
Pentachlorophenol	0.00023	0.00004	mg/L	0.0002		113	70-130			
Picloram	0.0006	0.0001	mg/L	0.0005		115	70-130			
Reference (2877361)		**Source: 41130**		*Prepared: 68/17/19 Analyzed: 68/13/19*						
2,4,5-TP (Silvex)	0.0015	0.0002	mg/L	0.0015		103	70-130			
2,4-D	0.0033	0.0001	mg/L	0.003		109	70-130			
Dalapon	0.0031	0.0010	mg/L	0.003		103	70-130			
Dicamba	0.0031	0.0001	mg/L	0.003		102	70-130			
Dinoseb	0.0032	0.0002	mg/L	0.003		106	70-130			
Pentachlorophenol	0.00064	0.00004	mg/L	0.0006		106	70-130			
Picloram	0.0017	0.0001	mg/L	0.0015		111	70-130			

EPA 525.2 - Quality Control

UL#AZ0432

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 182712 - SPE										
Blank (2876848)		**Source: 41111**		*Prepared & Analyzed: 68/14/19*						
Alachlor	<0.0002	0.0002	mg/L				-			
Aldrin	<0.0001	0.0001	mg/L				-			
Atrazine	<0.0001	0.0001	mg/L				-			
Benzo(a)pyrene	<0.00002	0.00002	mg/L				-			
Butachlor	<0.0001	0.0001	mg/L				-			
Di(2-ethylhexyl)adipate	<0.0006	0.0006	mg/L				-			
Di(2-ethylhexyl)phthalate	<0.0006	0.0006	mg/L				-			
Dieldrin	<0.0001	0.0001	mg/L				-			
Endrin	<0.00001	0.00001	mg/L				-			
gamma-BHC (Lindane)	<0.00002	0.00002	mg/L				-			
Heptachlor	<0.00004	0.00004	mg/L				-			
Heptachlor epoxide	<0.00002	0.00002	mg/L				-			
Hexachlorobenzene	<0.0001	0.0001	mg/L				-			
Hexachlorocyclopentadiene	<0.0001	0.0001	mg/L				-			
Methoxychlor	<0.0001	0.0001	mg/L				-			
Metolachlor	<0.0001	0.0001	mg/L				-			
Metribuzin	<0.0001	0.0001	mg/L				-			
Propachlor	<0.0001	0.0001	mg/L				-			
Simazine	<0.00007	0.00007	mg/L				-			
LCS (2876849)		**Source: 41111**		*Prepared & Analyzed: 68/14/19*						
Alachlor	<0.0002	0.0002	mg/L	0.0001		99	66-122			
Atrazine	<0.0001	0.0001	mg/L	0.0001		86	73-138			
Benzo(a)pyrene	0.00002	0.00002	mg/L	0.00002		120	43-174			
Di(2-ethylhexyl)adipate	0.0008	0.0006	mg/L	0.0006		126	75-147			
Di(2-ethylhexyl)phthalate	0.0007	0.0006	mg/L	0.0006		125	54-149			
Endrin	0.00001	0.00001	mg/L	0.00001		120	42-294			
gamma-BHC (Lindane)	<0.00002	0.00002	mg/L	0.00002		95	73-150			
Heptachlor	<0.00004	0.00004	mg/L	0.00004		85	65-124			
Heptachlor epoxide	<0.00002	0.00002	mg/L	0.00002		75	46-163			
Hexachlorobenzene	<0.0001	0.0001	mg/L	0.0001		66	62-114			
Methoxychlor	<0.0001	0.0001	mg/L	0.0001		98	51-111			
Metolachlor	<0.0001	0.0001	mg/L	0.0001		93	61-116			
Simazine	<0.00007	0.00007	mg/L	0.00007		74	66-118			

EPA 525.2 - Quality Control

UL#AZ0432

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 182712 - SPE										
LCS (2876850)		**Source: 41111**		*Prepared & Analyzed: 68/14/19*						
Alachlor	0.0021	0.0002	mg/L	0.002		106	70-130			
Aldrin	0.0016	0.0001	mg/L	0.002		82	70-130			
Atrazine	0.0023	0.0001	mg/L	0.002		113	70-130			
Benzo(a)pyrene	0.0020	0.00002	mg/L	0.002		100	70-130			
Butachlor	0.0020	0.0001	mg/L	0.002		102	70-130			
Di(2-ethylhexyl)adipate	0.0023	0.0006	mg/L	0.002		116	70-130			
Di(2-ethylhexyl)phthalate	0.0022	0.0006	mg/L	0.002		109	70-130			
Dieldrin	0.0020	0.0001	mg/L	0.002		98	70-130			
Endrin	0.0021	0.00001	mg/L	0.002		106	70-130			
gamma-BHC (Lindane)	0.0021	0.00002	mg/L	0.002		104	70-130			
Heptachlor	0.0020	0.00004	mg/L	0.002		101	70-130			
Heptachlor epoxide	0.0020	0.00002	mg/L	0.002		101	70-130			
Hexachlorobenzene	0.0019	0.0001	mg/L	0.002		97	70-130			
Hexachlorocyclopentadiene	0.0020	0.0001	mg/L	0.002		99	70-130			
Methoxychlor	0.0020	0.0001	mg/L	0.002		100	70-130			
Metolachlor	0.0021	0.0001	mg/L	0.002		106	70-130			
Metribuzin	0.0017	0.0001	mg/L	0.002		86	70-130			
Propachlor	0.0023	0.0001	mg/L	0.002		116	70-130			
Simazine	0.0018	0.00007	mg/L	0.002		91	70-130			
Reference (2876855)		**Source: 41112**		*Prepared & Analyzed: 68/14/19*						
Alachlor	0.0010	0.0002	mg/L	0.001		101	70-130			
Aldrin	0.0010	0.0001	mg/L	0.001		95	70-130			
Atrazine	0.0010	0.0001	mg/L	0.001		102	70-130			
Benzo(a)pyrene	0.0010	0.00002	mg/L	0.001		101	70-130			
Butachlor	0.0010	0.0001	mg/L	0.001		98	70-130			
Di(2-ethylhexyl)adipate	0.0012	0.0006	mg/L	0.001		123	70-130			
Di(2-ethylhexyl)phthalate	0.0011	0.0006	mg/L	0.001		112	70-130			
Dieldrin	0.0010	0.0001	mg/L	0.001		100	70-130			
Endrin	0.0011	0.00001	mg/L	0.001		106	70-130			
gamma-BHC (Lindane)	0.00098	0.00002	mg/L	0.001		98	70-130			
Heptachlor	0.00099	0.00004	mg/L	0.001		99	70-130			
Heptachlor epoxide	0.00091	0.00002	mg/L	0.001		91	70-130			
Hexachlorobenzene	0.0009	0.0001	mg/L	0.001		92	70-130			
Methoxychlor	0.0010	0.0001	mg/L	0.001		98	70-130			
Metolachlor	0.0010	0.0001	mg/L	0.001		99	70-130			
Metribuzin	0.0010	0.0001	mg/L	0.001		104	70-130			
Propachlor	0.0011	0.0001	mg/L	0.001		110	70-130			
Simazine	0.00092	0.00007	mg/L	0.001		92	70-130			

EPA 525.2 - Quality Control

UL#AZ0432

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 182712 - SPE										
Reference (2876856)		**Source: 41112**		*Prepared: 68/14/19 Analyzed: 68/17/19*						
Alachlor	0.0011	0.0002	mg/L	0.001		107	70-130			
Aldrin	0.0010	0.0001	mg/L	0.001		98	70-130			
Atrazine	0.0011	0.0001	mg/L	0.001		105	70-130			
Benzo(a)pyrene	0.0010	0.00002	mg/L	0.001		102	70-130			
Butachlor	0.0010	0.0001	mg/L	0.001		105	70-130			
Di(2-ethylhexyl)adipate	0.0012	0.0006	mg/L	0.001		120	70-130			
Di(2-ethylhexyl)phthalate	0.0011	0.0006	mg/L	0.001		112	70-130			
Dieldrin	0.0010	0.0001	mg/L	0.001		96	70-130			
Endrin	0.0011	0.00001	mg/L	0.001		107	70-130			
gamma-BHC (Lindane)	0.0010	0.00002	mg/L	0.001		101	70-130			
Heptachlor	0.0010	0.00004	mg/L	0.001		104	70-130			
Heptachlor epoxide	0.00096	0.00002	mg/L	0.001		96	70-130			
Hexachlorobenzene	0.0010	0.0001	mg/L	0.001		95	70-130			
Methoxychlor	0.0010	0.0001	mg/L	0.001		103	70-130			
Metolachlor	0.0010	0.0001	mg/L	0.001		101	70-130			
Metribuzin	0.0011	0.0001	mg/L	0.001		107	70-130			
Propachlor	0.0011	0.0001	mg/L	0.001		111	70-130			
Simazine	0.00094	0.00007	mg/L	0.001		94	70-130			
Reference (2876857)		**Source: 41112**		*Prepared: 68/14/19 Analyzed: 68/17/19*						
Alachlor	0.0010	0.0002	mg/L	0.001		104	70-130			
Aldrin	0.0010	0.0001	mg/L	0.001		99	70-130			
Atrazine	0.0010	0.0001	mg/L	0.001		104	70-130			
Benzo(a)pyrene	0.0011	0.00002	mg/L	0.001		108	70-130			
Butachlor	0.0010	0.0001	mg/L	0.001		103	70-130			
Di(2-ethylhexyl)adipate	0.0012	0.0006	mg/L	0.001		125	70-130			
Di(2-ethylhexyl)phthalate	0.0011	0.0006	mg/L	0.001		107	70-130			
Dieldrin	0.0009	0.0001	mg/L	0.001		95	70-130			
Endrin	0.0011	0.00001	mg/L	0.001		112	70-130			
gamma-BHC (Lindane)	0.0010	0.00002	mg/L	0.001		100	70-130			
Heptachlor	0.0010	0.00004	mg/L	0.001		102	70-130			
Heptachlor epoxide	0.00098	0.00002	mg/L	0.001		98	70-130			
Hexachlorobenzene	0.0010	0.0001	mg/L	0.001		98	70-130			
Methoxychlor	0.0009	0.0001	mg/L	0.001		90	70-130			
Metolachlor	0.0010	0.0001	mg/L	0.001		100	70-130			
Metribuzin	0.0010	0.0001	mg/L	0.001		104	70-130			
Propachlor	0.0011	0.0001	mg/L	0.001		112	70-130			
Simazine	0.00096	0.00007	mg/L	0.001		96	70-130			

EPA 525.2 - Quality Control

UL#AZ0432

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 182712 - N/A										
Reference (2876866)				*Prepared: Analyzed: 68/17/19*						
Alachlor	0.0010	0.0002	mg/L	0.001		100	70-130			
Aldrin	0.0010	0.0001	mg/L	0.001		97	70-130			
Atrazine	0.0011	0.0001	mg/L	0.001		106	70-130			
Benzo(a)pyrene	0.0011	0.00002	mg/L	0.001		106	70-130			
Butachlor	0.0009	0.0001	mg/L	0.001		93	70-130			
Di(2-ethylhexyl)adipate	0.0012	0.0006	mg/L	0.001		118	70-130			
Di(2-ethylhexyl)phthalate	0.0011	0.0006	mg/L	0.001		107	70-130			
Dieldrin	0.0009	0.0001	mg/L	0.001		90	70-130			
Endrin	0.0010	0.00001	mg/L	0.001		102	70-130			
gamma-BHC (Lindane)	0.00098	0.00002	mg/L	0.001		98	70-130			
Heptachlor	0.0010	0.00004	mg/L	0.001		101	70-130			
Heptachlor epoxide	0.00091	0.00002	mg/L	0.001		91	70-130			
Hexachlorobenzene	0.0010	0.0001	mg/L	0.001		95	70-130			
Methoxychlor	0.0009	0.0001	mg/L	0.001		88	70-130			
Metolachlor	0.0010	0.0001	mg/L	0.001		102	70-130			
Metribuzin	0.0011	0.0001	mg/L	0.001		106	70-130			
Propachlor	0.0011	0.0001	mg/L	0.001		111	70-130			
Simazine	0.0010	0.00007	mg/L	0.001		102	70-130			

EPA 548.1 - Quality Control

UL#AZ0432

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 182548 - SPE										
Blank (2874283)		**Source: 41070**		*Prepared & Analyzed: 68/6x/19*						
Endothall	<0.0090	0.0090	mg/L				-			
LCS (2874284)		**Source: 41070**		*Prepared & Analyzed: 68/6x/19*						
Endothall	0.10	0.0090	mg/L	0.1		101	70-142			
LCS (2874285)		**Source: 41070**		*Prepared & Analyzed: 68/6x/19*						
Endothall	0.012	0.0090	mg/L	0.009		133	38-161			
Reference (2874287)		**Source: 41071**		*Prepared & Analyzed: 68/6x/19*						
Endothall	0.11	0.0090	mg/L	0.1		109	70-130			
Reference (2874288)		**Source: 41071**		*Prepared & Analyzed: 68/6x/19*						
Endothall	0.11	0.0090	mg/L	0.1		108	70-130			
Reference (2874289)		**Source: 41071**		*Prepared: 68/6x/19 Analyzed: 68/16/19*						
Endothall	0.11	0.0090	mg/L	0.1		105	70-130			

EPA 549.2 - Quality Control

UL#AZ0432

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 182521 - SPE										
Reference (2873839)		**Source: 40865**		*Prepared: 63/27/19 Analyzed: 68/6x/19*						
Diquat	0.0019	0.0004	mg/L	0.002		93	80-120			
Reference (2873840)		**Source: 40865**		*Prepared: 63/27/19 Analyzed: 68/6x/19*						
Diquat	0.0045	0.0004	mg/L	0.005		90	80-120			
LCS (2873841)		**Source: 41066**		*Prepared & Analyzed: 68/6x/19*						
Diquat	<0.0004	0.0004	mg/L	0.0004		51	21-161			
Blank (2873842)		**Source: 41066**		*Prepared & Analyzed: 68/6x/19*						
Diquat	<0.0004	0.0004	mg/L				-			
LCS (2873843)		**Source: 41066**		*Prepared & Analyzed: 68/6x/19*						
Diquat	0.0041	0.0004	mg/L	0.005		82	70-130			

EPA-5 1613B-Tetras - Quality Control

Pace Analytical Services, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 13756 - 1613										
(ALCS-37389)				*Prepared: 68/12/19 Analyzed: 68/14/19*						
Dioxin	ND	0.000000005	mg/L	5.2			25-141			I
Blank (BLANK-37386)				*Prepared: 68/12/19 Analyzed: 68/14/19*						
Dioxin	ND	0.000000005	mg/L				31-137			
LCS (LCS-37387)				*Prepared: 68/12/19 Analyzed: 68/14/19*						
Dioxin	2.4e-007	0.000000005	mg/L	200			73-146			
LCSD (LCSD-37388)		**Source: LCS-37387**		*Prepared: 68/12/19 Analyzed: 68/14/19*						
Dioxin	2.4e-007	0.000000005	mg/L	200	0.00000024		73-146	1.8	0	

Notes and Definitions

S7	Surrogate recovery was below laboratory and method acceptance limits. Unable to confirm matrix effect.
N4	The Minimum Reporting Limit (MRL) verification check did not meet laboratory acceptance.
N1a	See case narrative.
N1	See case narrative
I	Interference
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
E7	Concentration estimated. Internal standard recoveries did meet laboratory acceptance limits.
D1a	Sample required dilution due to matrix.
D1	Sample required dilution due to matrix
BLK	Method Blank
LCS/Dup	Laboratory Control Sample/Laboratory Fortified Blank/Duplicate
MS/Dup	Matrix Spike/Duplicate
Dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Laboratory Sample ID: 3080358

CHAIN OF CUSTODY RECORD

LEGEND Technical Services, Inc.

☐ 17831 N. 29th Avenue • Phoenix, AZ 85023 • (602) 324-6100 • Fax (602) 324-6101
☐ 4565 S. Palo Verde Rd, Ste 423 • Tucson, AZ 85706 • (520) 327-1234 • Fax (520) 327-0518

Page 1 of 1

Please Print Clearly

CLIENT INFORMATION

Client Name	Address	City	State	Zip	Phone	Fax Number or Email Address
YELLOW JACKET DRILLING SVCS	POB 801	GILBERT	AZ	85299-0801	602-453-3252	vern@yjdrilling.com, sfritz@shamak.com

Project Name	Project Number/PWS	Contact	P.O. No.	
New Source HAMP	13-0111 AZ	Vern		Fax Results ☐ QC Report ☐ EDD ☐ Email Results ☒ Special Detection Limits ☐

SAMPLE TYPE CODES: DW=Drinking Water, WW=Wastewater, SW=Surface Water, G=Groundwater, O=Other, S=Soil/Solid, T=Travel Blank, F=Food, O=Sludge/Biosolids

TURN AROUND TIME: Laboratory Authorization Required for Rush
☒ Standard 15-20 Working Days for all others
☒ Other Rush Arsenic (Laboratory Authorization Required)

REQUESTED ANALYSES

Client's	Date	Time	Sample Location/POE/DWR	Composite	Grab	Sample Type	Compliance	No. of Containers	pH ✓ (Lab Use Only)	Metals*	Asbestos	Cyanide	Nitrate, Nitrite	Langlier Index**	Total Coliform	Sulfate	Fluoride	Total Hardness	505, 515, 525	531, 547, 548	549, Dioxin	524, 504	Gross Alpha	Radium 226/22	Lab No.
HAMP WELL #2	8/5/20	3 17:30	Z1,706		X	DW		32		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-01
Travel Blank (Do Not Open)					X	DI		3														X			-02
Temperature Blank								1																	

RUSH AS ONLY

TO ENSURE COMPLETION OF ANALYSIS, SAMPLES MUST BE RECEIVED AT LEAST 3 HOURS PRIOR TO THE HOLD TIME EXPIRATION

Comments / Special Instructions: *Metals= Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Na, Tl **Langlier Index= Ca, Alkalinity, TDS, pH ***Total Hardness= Ca, Mg Please Rush As Results

If sample source is chlorinated, different sample containers/preservatives must be used for dechlorination. Use Standard Drinking Water detection Limits, see list for tests Required

SAMPLE CONDITION UPON RECEIPT (Lab Use)		
No. of Containers	20	
Temperature	2.0 °C	
Custody Seals	Y	N
Seals Intact	Y	N
Preserved	Y	N

	RELINQUISHED BY		SAMPLES RECEIVED BY	
①	Sampler Signature: Sherry Fritz	Date: 8/5/20	Signature: Marion Phillips	Date: 8/5/13
	Sampler Printed Name: SHERRY FRITZ	Time: 2107	Printed Name: Marion Phillips	Time: 2107
②	Signature: Marion Phillips	Date: 8/6/13	Signature: [illegible]	Date: 8/6/13
	Printed Name: MARION Phillips	Time: 1035	Printed Name: L. Parrish	Time: 1035
③	Signature:	Date:	Signature:	Date:
	Printed Name:	Time:	Printed Name:	Time:

WHITE-LAB YELLOW-CLIENT

FORM GEN-170 (05/08)

RUSH NOTICE

W.O. #: 3080358

Company: Yellow Jacket Drilling Phone:

Contact:

Prelim Due Date: Final Due Date: 8/9/13

Analysis: Arsenic

Number of Samples: 1 Date Samples Expected: 8/6/13

Matrix: DW Expiration Date:

Supervisor Approval

Inorganics:		Specifics:
Metals:	MY 8/6/13	Specifics:
Micro:		Specifics:
SOC:		Specifics:
VOC:		Specifics:
Sub1:		Specifics:
Sub2:		Specifics:

Comments:

COST:

Project Manager: CL

RUSH Initiator: CL

FORM GEN-080.1 (10/06)

3080358

The "new source approval" test from Legend Technical Services shall comply with the most recent version of the National Primary Drinking Water Regulations and shall test for the following general classes of contaminants:

1. Microorganisms
2. Organic Chemicals
3. Inorganic Chemicals
4. Radionuclides

The Contractor shall also sample and test for the following secondary parameters to determine water chemistry that may lead to customer complaints or operation and maintenance problems:

1. Alkalinity
2. Aluminum
3. Calcium
4. Chloride
5. Color
6. Copper
7. Corrosivity
8. Flouride
9. Hardness as CaCO3
10. Iron
11. Magnesium
12. Manganese
13. Nickel
14. Odor
15. pH
16. Silver
17. Sodium
18. Sulfate
19. Total Dissolved Solids (TDS)
20. Total Organic Carbon (TOC)
21. Zinc
22. Silica

3080358

Sample analysis (both acquisition and payment) shall be the sole responsibility of the Contractor. The Project Engineer shall be present during water sampling and shall initial the custody seals of the sample containers.

Legend Technical Services of Arizona, Inc. PO Number: 3080358

SUBCONTRACT ORDER
3080358

SENDING LABORATORY:
Legend Technical Services of Arizona, Inc.
17631 North 25th Avenue
Phoenix, AZ 85023
Phone: 602-324-6100
Fax: 602-324-6101
Project Manager: Cory Lund

RECEIVING LABORATORY:
Pace Analytical Services
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone :(612) 607-1700
Fax: (612) 607-6444

Analysis	Due	Expires	Sample Type circle one	Sample Comments
Sample ID: 3080358-01 Drinking W. Sampled:08/05/13 17:30			Grab Composite	N/A
1613-Subcontract	08/15/13 09:00	11/03/13 17:30		

Containers Supplied:
02_1000mL Amber Glass Cool to 4° C (A)
02_1000mL Amber Glass Cool to 4° C (B)

Released By (Print & Sign)	Date	Time	Received By (Print & Sign)	Date	Time
Jobree Jerome X [signature]	8/6/13	1630	Fed Ex X	8/6/13	1630
Fed Ex X					

Page 1 of 1

Legend Technical Services of Arizona, Inc. **PO Number:** 3080358

SUBCONTRACT ORDER
3080358

SENDING LABORATORY:

Legend Technical Services of Arizona, Inc.
17631 North 25th Avenue
Phoenix, AZ 85023
Phone: 602-324-6100
Fax: 602-324-6101
Project Manager: Cory Lund
Project: Drinking Water

RECEIVING LABORATORY:

Legend Technical Services, St. Paul AZ0557
88 Empire Drive
Saint Paul, MN 55103
Phone :(800) 826-8553
Fax: (651) 642-1239

Client: Yellow Jacket Drilling

Analysis	Due	Expires	Sample Comments
Sample ID: 3080358-01 Drinking Wat **Sampled:08/05/13 17:30**			
505-Subcontract	08/15/13 09:00	08/19/13 17:30	

Containers Supplied:
10_40mL Sodium Thiosulfate Clear Vial Cool to 4° C (Q)
10_40mL Sodium Thiosulfate Clear Vial Cool to 4° C (R)

Special Instructions:

* The sample matrix for leachates supplied to the MN laboratory reflects the matrix of the original sample received by LEGEND AZ.

Released By (Print & Sign)	Date	Time	Received By (Print & Sign)	Date	Time
Aurore Jerome	8/6/13	1630	Fed Ex x	8/6/13	1630
x					

Page 1 of 1

Legend Technical Services of Arizona, Inc.

PO Number: 3080358
Sampled By: Sherry Fritz
Compliance?: Yes No

SUBCONTRACT ORDER
3080358

SENDING LABORATORY:

Legend Technical Services of Arizona, Inc.
17631 North 25th Avenue
Phoenix, AZ 85023
Phone: 602-324-6100
Fax: 602-324-6101
Project Manager: Cory Lund

RECEIVING LABORATORY:

Radiation Safety Engineering
3245 N. Washington
Chandler, AZ 85225
Phone :(480) 897-9459
Fax: (480) 892-5446

Analysis	Due	Expires	Sample Type (circle one)	Sample Comments
Sample ID: 3080358-01	**Drinking W.**	**Sampled:08/06/13 17:30**	**Grab Composite N/A**	
Radium 228	08/15/13 09:00	02/01/14 17:30		
Radium 226	08/15/13 09:00	02/01/14 17:30		
Gross Alpha, Measured	08/15/13 09:00	02/01/14 17:30		
Gross Alpha, Deviation	08/15/13 09:00	02/01/14 17:30		

Containers Supplied:
06_1000mL Plastic pH <2 w/ HNO3 (C)
06_1000mL Plastic pH <2 w/ HNO3 (D)
06_1000mL Plastic pH <2 w/ HNO3 (E)
06_1000mL Plastic pH <2 w/ HNO3 (F)

Released By (Print & Sign)	Date	Time	Received By (Print & Sign)	Date	Time
[illegible]	8/6/13	1325	[illegible]	8/6/13	1325
[illegible]	8/6/13	1436	[illegible]	8/6/13	1436

Page 1 of 1

Legend Technical Services of Arizona, Inc.

PO Number: 3080358

SUBCONTRACT ORDER
3080358

SENDING LABORATORY:
Legend Technical Services of Arizona, Inc.
17631 North 25th Avenue
Phoenix, AZ 85023
Phone: 602-324-6100
Fax: 602-324-6101
Project Manager: Cory Lund

RECEIVING LABORATORY:
Underwriter's Laboratories
110 S. Hill Street
South Bend, IN 46617
Phone :(800) 332-4345
Fax: (574) 233-8207

Analysis	Due	Expires	Sample Type (circle one)	Sample Comments
Sample ID: 3080358-01	**Drinking W.**	**Sampled: 08/05/13 17:30**	**Grab Composite**	**N/A**
549-Subcontract	08/15/13 09:00	08/12/13 17:30		
548-Subcontract	08/15/13 09:00	08/12/13 17:30		
525-Subcontract	08/15/13 09:00	08/19/13 17:30		
515-Subcontract	08/15/13 09:00	08/19/13 17:30		
504-Subcontract	08/15/13 09:00	08/19/13 17:30		

Containers Supplied:
11_125mL Amber Glass Bottle w/ Sodium Sulfite (H)
11_125mL Amber Glass Bottle w/ Sodium Sulfite (I)
20_500mL Amber Plastic w/ S.T. & H2SO4 (J)
07_1000mL Amber Glass pH <2 w/ SS & HCl (K)
07_1000mL Amber Glass pH <2 w/ SS & HCl (L)
10_40mL Sodium Thiosulfate Clear Vial Cool to 4° C (M)
10_40mL Sodium Thiosulfate Clear Vial Cool to 4° C (N)
10_40mL Sodium Thiosulfate Clear Vial Cool to 4° C (O)
10_40mL Sodium Thiosulfate Clear Vial Cool to 4° C (P)

Released By (Print & Sign)	Date	Time	Received By (Print & Sign)	Date	Time
Aubree Jerome X [signature]	8/6/13	1630	Fed Ex X	8/6/13	1630
Fed Ex X					

Page 1 of 1

Legend Technical Services of Arizona, Inc.

SUBCONTRACT ORDER
3080358

PO Number: 3080358
Sampled By: Sherry Fritz
Compliance?: Yes No

SENDING LABORATORY:
Legend Technical Services of Arizona, Inc.
17631 North 25th Avenue
Phoenix, AZ 85023
Phone: 602-324-6100
Fax: 602-324-6101
Project Manager: Cory Lund

RECEIVING LABORATORY:
Fiberquant Analytical Services
5025 S. 33rd Street
Phoenix, AZ 85040
Phone :(602) 276-6139
Fax: (602) 276-4558

Analysis	Due	Expires	Sample Type (circle one)	Sample Comments
Sample ID: 3080358-01 Drinking W. Sampled: 08/05/13 17:30 Grab Composite N/A				
Asbestos	08/15/13 09:00	08/07/13 17:30		

Containers Supplied:
03. 1000mL Plastic Cool to 4° C (T)

L Parrish x L Parrish 8/6/13 1325 K McFarlin x K McFarlin 8/6/13 8/6/13 1325
Released By (Print & Sign) Date Time Received By (Print & Sign) Date Time

K McFarlin x K McFarlin 8/6/13 1412 [illegible] 8/6/13 14:18
Released By (Print & Sign) Date Time Received By (Print & Sign) Date Time

Review of Analysis Request (Initials) [illegible]

Page 1 of 1

Copy of the laboratory water quality results
from the zonal sampling of the pilot borehole
Zone 1,834 to 1,855 (Zone Z1,845)
HAMP Well No. 2, Hopi Tribe

LEGEND
Technical Services, Inc.
www.legend-group.com

17631 North 25th Avenue • Phoenix, AZ 85023
P (602) 324-6100 • F (602) 324-6101

06 September 2013

Yellow Jacket Drilling Services
Valued Client
POB 801
Gilbert, Arizona 85299

RE: Drinking Water

Laboratory Work Order q o.: 3080196

Legend Technical Services of Arizona, Inc. is pleased to provide the enclosed analytical results for the aforementioned project. These results relate only to the items tested. This cover letter and the accompanying pages represent the full report for these analyses and should only be reproduced in full. Samples for this project were received by the laboratory on 08/06/13 12:6N.

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

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

This entire report was reviewed and approved for release by the undersigned. If you have any 4uestions concerning this report, please feel free to contact me.

Sincerely,
LEGEND TECHNICAL SERVICES OF ARIZONA, INC.

Cory Lund
Client Services Representative
(N02) 326-N100

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

ED_005149_00023261-00173

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Type	Date Sampled	Date Received
Hamp Well #2 (Z1, 865)	3080196-01	Drinking Water	Grab	08/06/13 05:00	08/06/13 12:6N

Sample Condition Upon Receipt:

Temperature: 2.N0 C

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

Case Narrative:

Holding Times: All holding times were met unless otherwise 4ualified.

QA/QC Criteria: All analyses met method re4uirements unless otherwise 4ualified.

Certifications: AZ(PHX)0004, AZ(TUC)OOO4, AIHA#102982, CDC ELITE Member.

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

Comments: There were no problems encountered during the processing of the samples, unless otherwise noted. All samples were analyzed on a "wet" basis unless designated as "dry weight".

The sample was turbid in apparent color. In order to record the true color, the sample was centrifuged at 6500 rpm for 10 minutes. This resulted in a pelet at the bottom of the sample. The supernatant was poured off and the true color was taken from this portion of the sample. 8/N/13 CL

This report contains data that were produced by a subcontracted laboratory certified for the fields of testing performed.

Underwriter's Laboratories AZ0432
Jim Van 7leit
5F6.6F2-5535

Pace Analytical AZ0014
Emily Hazelroth
N12.N0F.N60F

Legend Technical Services, St. Paul AZ0557
Bach Pham
N51.221.60N2

Radiation Safety AZ0462
Pierre Pou4uette
680.89F.9659

Fiberquant AZ0633
Karen Grant N02.2FN.N131
Kathy Townsend N02.2FN.N139

Hamp Well #2 (Z1, 845) (3080194-01) Drinking Water (Grab) Sampled: 08/04/13 05:00 Received: 08/04/13 12:46

Analyte	Result	PQL	Units	Dilution	Batch	Prepared	Analyzed	Method	q otes
			UL#AZ0632						
EPA 504.1									
1,2-Dibromo-3-chloropropane (D	<0.00002	0.00002	mg/L	1.01	182692	08/08/13 00:00	08/08/13 00:00	EPA 506.1	D1
1,2-Dibromoethane (EDB)	<0.00001	0.00001	mg/L	1.01	182692	08/08/13 00:00	08/08/13 00:00	EPA 506.1	D1
EPA 515.3									
2,6,5-TP (Silvex)	<0.0010	0.0010	mg/L	10	182FN2	08/15/13 00:00	08/16/13 00:00	EPA 515.3	D1
2,6-D	<0.0010	0.0010	mg/L	10	182FN2	08/15/13 00:00	08/16/13 00:00	EPA 515.3	D1, q 6
Dalapon	<0.0100	0.0100	mg/L	10	182FN2	08/15/13 00:00	08/16/13 00:00	EPA 515.3	D1
Dicamba	<0.0010	0.0010	mg/L	10	182FN2	08/15/13 00:00	08/16/13 00:00	EPA 515.3	D1
Dinoseb	<0.0010	0.0010	mg/L	10	182FN2	08/15/13 00:00	08/16/13 00:00	EPA 515.3	D1
Pentachlorophenol	<0.00060	0.00060	mg/L	10	182FN2	08/15/13 00:00	08/16/13 00:00	EPA 515.3	D1
Picloram	<0.0010	0.0010	mg/L	10	182FN2	08/15/13 00:00	08/16/13 00:00	EPA 515.3	D1
Surrogate: SS-2,4-Dichlorophenylacetic acid		*167 %*		*36-196*	*182302*	*68/17/19*	*68/10/19*	*EPA 515.3*	*D1*
EPA 525.2									
Alachlor	<0.0002	0.0002	mg/L	1.02	182555	08/09/13 00:00	08/10/13 00:00	EPA 525.2	EF, SF
Aldrin	<0.0001	0.0001	mg/L	1.02	182555	08/09/13 00:00	08/10/13 00:00	EPA 525.2	EF, SF
Atrazine	<0.0001	0.0001	mg/L	1.02	182555	08/09/13 00:00	08/10/13 00:00	EPA 525.2	EF, SF
Benzo(a)pyrene	<0.00002	0.00002	mg/L	1.02	182555	08/09/13 00:00	08/10/13 00:00	EPA 525.2	EF, q 1
Butachlor	<0.0001	0.0001	mg/L	1.02	182555	08/09/13 00:00	08/10/13 00:00	EPA 525.2	EF, q 1
Di(2-ethylhexyl)adipate	**0.0012**	0.000N	mg/L	1.02	182555	08/09/13 00:00	08/10/13 00:00	EPA 525.2	EF, q 1
Di(2-ethylhexyl)phthalate	**0.0010**	0.000N	mg/L	1.02	182555	08/09/13 00:00	08/10/13 00:00	EPA 525.2	EF, q 1
Dieldrin	<0.0001	0.0001	mg/L	1.02	182555	08/09/13 00:00	08/10/13 00:00	EPA 525.2	EF, q 1
Endrin	<0.00001	0.00001	mg/L	1.02	182555	08/09/13 00:00	08/10/13 00:00	EPA 525.2	EF, q 1
gamma-BHC (Lindane)	<0.00002	0.00002	mg/L	1.02	182555	08/09/13 00:00	08/10/13 00:00	EPA 525.2	EF, SF
Heptachlor	<0.00006	0.00006	mg/L	1.02	182555	08/09/13 00:00	08/10/13 00:00	EPA 525.2	EF, SF
Heptachlor epoxide	<0.00002	0.00002	mg/L	1.02	182555	08/09/13 00:00	08/10/13 00:00	EPA 525.2	EF, q 1
Hexachlorobenzene	<0.0001	0.0001	mg/L	1.02	182555	08/09/13 00:00	08/10/13 00:00	EPA 525.2	EF, SF
Hexachlorocyclopentadiene	<0.0001	0.0001	mg/L	1.02	182555	08/09/13 00:00	08/10/13 00:00	EPA 525.2	EF, SF
Methoxychlor	<0.0001	0.0001	mg/L	1.02	182555	08/09/13 00:00	08/10/13 00:00	EPA 525.2	EF, q 1
Metolachlor	<0.0001	0.0001	mg/L	1.02	182555	08/09/13 00:00	08/10/13 00:00	EPA 525.2	EF, SF
Metribuzin	<0.0001	0.0001	mg/L	1.02	182555	08/09/13 00:00	08/10/13 00:00	EPA 525.2	EF, SF
Propachlor	<0.0001	0.0001	mg/L	1.02	182555	08/09/13 00:00	08/10/13 00:00	EPA 525.2	EF, SF
Simazine	<0.0000F	0.0000F	mg/L	1.02	182555	08/09/13 00:00	08/10/13 00:00	EPA 525.2	EF, SF
Surrogate: SS-2,4,7,0-Tetrachloro-m-5ylene		*41 %*		*36-196*	*182777*	*68/6x/19*	*68/16/19*	*EPA 525.2*	*S3*
Surrogate: SS-4,4'-Dichlorobiphenyl		*04 %*		*36-196*	*182777*	*68/6x/19*	*68/16/19*	*EPA 525.2*	*S3*
Surrogate: SS-Triphenylphosphate		*463 %*		*36-196*	*182777*	*68/6x/19*	*68/16/19*	*EPA 525.2*	*N1*

Hamp Well #2 (Z1, 845) (3080194-01) Drinking Water (Grab) Sampled: 08/04/13 05:00 Received: 08/04/13 12:46

Analyte	Result	PQL	Units	Dilution	Batch	Prepared	Analyzed	Method	q otes
			UL#AZ0632						
EPA 548.1									
Endothall	<0.0090	0.0090	mg/L	1	182568	08/09/13 00:00	08/09/13 00:00	EPA 568.1	
Surrogate: SS-2,4-Dichlorophenylacetic acid		*x1 %*		*74-127*	*182748*	*68/6x/19*	*68/6x/19*	*EPA 548.1*	
EPA 549.2									
Di4uat	<0.0006	0.0006	mg/L	1	182620	08/07/13 00:00	08/07/13 00:00	EPA 569.2	
			Radiation Safety Engineering #AZ06N2						
Calculation									
Combined Radium	**1.8 ± 0.3**		pCi/L	1	q A		08/08/13 00:00	Calculation	
EPA 600/00-02									
Gross Alpha Activity	**5.7 ± 1.1**		pCi/L	1	q A		08/08/13 00:00	EPA N00/00-02	
EPA 903.1									
Radium 22NActivity	**1.0 ± 0.2**		pCi/L	1	q A		08/08/13 00:00	EPA 903.1	
EPA 904.0									
Radium 228 Activity	**0.8 ± 0.2**		pCi/L	1	q A		08/08/13 00:00	EPA 906.0	
			Pace Analytical Services, Inc.						
EPA-5 1613B-Tetras									
Dioxin	q D	0.00000000N3	mg/L	1	13F5N	08/12/13 00:00	08/14/13 16:13	EPA-5 1N13B-Tetras	
Surrogate: 19C-2,9,3,8-TCDD		*86 %*		*91-193*	*19370*	*68/12/19*	*68/14/19*	*EPA-5 1613B-Tetras*	
			Legend Technical Services, Inc. #AZ055F						
PESTICIDES/PCBS 505									
Aroclor 101N	<0.000080	0.000080	mg/L	1	B3H1616	08/14/13 12:09	08/14/13 20:35	EPA 505	
Aroclor 1221	<0.020	0.020	mg/L	1	B3H1616	08/14/13 12:09	08/14/13 20:35	EPA 505	
Aroclor 1232	<0.00050	0.00050	mg/L	1	B3H1616	08/14/13 12:09	08/14/13 20:35	EPA 505	
Aroclor 1262	<0.00030	0.00030	mg/L	1	B3H1616	08/14/13 12:09	08/14/13 20:35	EPA 505	
Aroclor 1268	<0.00010	0.00010	mg/L	1	B3H1616	08/14/13 12:09	08/14/13 20:35	EPA 505	
Aroclor 1256	<0.00010	0.00010	mg/L	1	B3H1616	08/14/13 12:09	08/14/13 20:35	EPA 505	
Aroclor 12N0	<0.00020	0.00020	mg/L	1	B3H1616	08/14/13 12:09	08/14/13 20:35	EPA 505	
Chlordane	<0.00020	0.00020	mg/L	1	B3H1616	08/14/13 12:09	08/14/13 20:35	EPA 505	
Toxaphene	<0.0010	0.0010	mg/L	1	B3H1616	08/14/13 12:09	08/14/13 20:35	EPA 505	
Surrogate: Decachlorobiphenyl		*73.4 %*		*00.3-191*	*B9H1414*	*68/14/19*	*68/14/19*	*EPA 505*	*S12*

Valued Client	Project: Drinking Water	
POB 801	Project q umber: q ew Source HAMP 13-0111 AZ	**Reported:**
Gilbert, Arizona 85299	Project Manager: Yellow Jacket Drilling Services	09/06/13 12:05

Hamp Well #2 (Z1, 845) (3080194-01) Drinking Water (Grab) Sampled: 08/04/13 05:00 Received: 08/04/13 12:46

Analyte	Result	PQL	Units	Dilution	Batch	Prepared	Analyzed	Method	q otes
		Legend Technical Services of Arizona, Inc.							
Microbiology									
Total Coliforms, MPq	> 23.0	1.1	MPq /100 mL	1	B3H0333	08/05/13 09:05	08/05/13 09:05	SM 9221B	
Total Metals									
Aluminum	**7.35**	2.00	mg/L	10	B3H0151	08/06/13 16:30	08/07/13 16:46	EPA 200.F	D1a
Antimony	<0.0005	0.0005	mg/L	1	B3H0152	08/06/13 16:30	08/07/13 14:44	EPA 200.8	
Arsenic	**0.0048**	0.0010	mg/L	1	B3H0152	08/06/13 16:30	08/07/13 14:44	EPA 200.8	
Barium	**0.10**	0.01	mg/L	1	B3H0151	08/06/13 16:30	08/07/13 16:49	EPA 200.F	
Beryllium	<0.002	0.002	mg/L	1	B3H0151	08/06/13 16:30	08/07/13 16:49	EPA 200.F	
Cadmium	<0.0001	0.0001	mg/L	1	B3H0152	08/06/13 16:30	08/07/13 14:44	EPA 200.8	
Calcium	**26**	10	mg/L	10	B3H0151	08/06/13 16:30	08/07/13 16:46	EPA 200.F	D1a
Chromium	**0.010**	0.005	mg/L	1	B3H0151	08/06/13 16:30	08/07/13 16:49	EPA 200.F	
Copper	**0.02**	0.01	mg/L	1	B3H0151	08/06/13 16:30	08/07/13 16:49	EPA 200.F	
Iron	**5.17**	0.50	mg/L	10	B3H0151	08/06/13 16:30	08/07/13 16:46	EPA 200.F	D1a
Lead	**0.0080**	0.0010	mg/L	1	B3H0152	08/06/13 16:30	08/07/13 14:44	EPA 200.8	
Magnesium	**4**	1	mg/L	1	B3H0151	08/06/13 16:30	08/07/13 16:49	EPA 200.F	
Manganese	**0.20**	0.02	mg/L	1	B3H0151	08/06/13 16:30	08/07/13 16:49	EPA 200.F	
Mercury	<0.0002	0.0002	mg/L	1	B3H0253	08/08/13 09:23	08/08/13 15:00	EPA 265.1	
q ickel	<0.02	0.02	mg/L	1	B3H0151	08/06/13 16:30	08/07/13 16:49	EPA 200.F	
Selenium	<0.0020	0.0020	mg/L	1	B3H0152	08/06/13 16:30	08/08/13 10:37	EPA 200.8	
Silica, Total	**54.9**	2.1	mg/L	10	[CALC]	08/06/13 16:30	08/07/13 16:46	EPA 200.F	
Silicon	**25.6**	1.0	mg/L	10	B3H0151	08/06/13 16:30	08/07/13 16:46	EPA 200.F	D1a
Silver	<0.0001	0.0001	mg/L	1	B3H0152	08/06/13 16:30	08/07/13 14:44	EPA 200.8	
Sodium	**94**	10	mg/L	10	B3H0151	08/06/13 16:30	08/07/13 16:46	EPA 200.F	D1a
Thallium	<0.0005	0.0005	mg/L	1	B3H0152	08/06/13 16:30	08/07/13 14:44	EPA 200.8	
Calcium Hardness as CaCO3	**65**	25	mg/L	10	[CALC]	08/06/13 16:30	08/07/13 16:46	SM2360B	
Magnesium Hardness as CaCO3	**15**	6	mg/L	1	[CALC]	08/06/13 16:30	08/07/13 16:49	SM2360B	
Total Hardness as CaCO3	**81**	25	mg/L	10	[CALC]	08/06/13 16:30	08/07/13 16:49	SM2360B	
Zinc	**0.04**	0.02	mg/L	1	B3H0151	08/06/13 16:30	08/07/13 16:49	EPA 200.F	

Valued Client	Project: Drinking Water	
POB 801	Project q umber: q ew Source HAMP 13-0111 AZ	**Reported:**
Gilbert, Arizona 85299	Project Manager: Yellow Jacket Drilling Services	09/06/13 12:05

Hamp Well #2 (Z1, 845) (3080194-01) Drinking Water (Grab) Sampled: 08/04/13 05:00 Received: 08/04/13 12:46

Analyte	Result	PQL	Units	Dilution	Batch	Prepared	Analyzed	Method	q otes
			Legend Technical Services of Arizona, Inc.						
Inorganic Chemistry									
Total Alkalinity as CaCO3	**186**	10	mg/L	1	B3H0206	08/07/13 15:45	08/07/13 15:45	SM 2320 B	
Chloride	<5.0	5.0	mg/L	1	B3H0225	08/08/13 09:48	08/08/13 09:48	EPA 300.0	
Color	**100**	1	Color Units	1	B3H0113	08/05/13 10:00	08/05/13 10:00	SM 2120 B	
Cyanide, Total	<0.010	0.010	mg/L	1	B3H01N1	08/06/13 14:00	08/06/13 16:04	SM 6500 Cq E	
7luoride	**0.18**	0.10	mg/L	1	B3H0381	08/13/13 16:25	08/13/13 16:25	SM 6500 7 C	
q itrate as q	**1.30**	0.20	mg/L	1	[CALC]	08/09/13 11:20	08/09/13 11:20	Calculation	
q itrate + q itrite as q	**1.30**	0.20	mg/L	1	B3H02NF	08/09/13 11:20	08/09/13 11:20	SM 6500 q O3 7	
q itrite as q	<0.10	0.10	mg/L	1	B3H0121	08/05/13 16:15	08/05/13 16:15	SM 6500 q O2 B	
Threshold Odor q umber	<1	1	T.O.q.	1	B3H0116	08/05/13 10:00	08/05/13 10:00	EPA 160.1	
pH	**9.2**		pH Units	1	B3H00F5	08/04/13 13:00	08/04/13 13:00	SM 6500H B	H5
Temperature	**10.3**		°C	1	B3H00F5	08/04/13 13:00	08/04/13 13:00	pH Temperature	H5
Sulfate	**7.9**	5.0	mg/L	1	B3H0225	08/08/13 09:48	08/08/13 09:48	EPA 300.0	
Total Dissolved Solids	**431**	1	mg/L	1	B3H00F8	08/04/13 10:00	08/04/13 10:00	SM 2560 C	
Total Organic Carbon	<1.00	1.00	mg/L	1	B3H0218	08/07/13 16:51	08/07/13 16:51	SM 5310 C	
Volatile Organic Compounds									
1,1,1-Trichloroethane	<0.0005	0.0005	mg/L	1	B3H022N	08/08/13 09:00	08/08/13 16:34	EPA 526.2	
1,1,2-Trichloroethane	<0.0005	0.0005	mg/L	1	B3H022N	08/08/13 09:00	08/08/13 16:34	EPA 526.2	
1,1-Dichloroethene	<0.0005	0.0005	mg/L	1	B3H022N	08/08/13 09:00	08/08/13 16:34	EPA 526.2	
1,2,6-Trichlorobenzene	<0.0005	0.0005	mg/L	1	B3H022N	08/08/13 09:00	08/08/13 16:34	EPA 526.2	
1,2-Dichlorobenzene	<0.0005	0.0005	mg/L	1	B3H022N	08/08/13 09:00	08/08/13 16:34	EPA 526.2	
1,2-Dichloroethane	<0.0005	0.0005	mg/L	1	B3H022N	08/08/13 09:00	08/08/13 16:34	EPA 526.2	
1,2-Dichloropropane	<0.0005	0.0005	mg/L	1	B3H022N	08/08/13 09:00	08/08/13 16:34	EPA 526.2	
1,6-Dichlorobenzene	<0.0005	0.0005	mg/L	1	B3H022N	08/08/13 09:00	08/08/13 16:34	EPA 526.2	
Benzene	<0.0005	0.0005	mg/L	1	B3H022N	08/08/13 09:00	08/08/13 16:34	EPA 526.2	
Bromodichloromethane	<0.0005	0.0005	mg/L	1	B3H022N	08/08/13 09:00	08/08/13 16:34	EPA 526.2	
Bromoform	<0.0005	0.0005	mg/L	1	B3H022N	08/08/13 09:00	08/08/13 16:34	EPA 526.2	
Carbon tetrachloride	<0.0005	0.0005	mg/L	1	B3H022N	08/08/13 09:00	08/08/13 16:34	EPA 526.2	
Chlorobenzene	<0.0005	0.0005	mg/L	1	B3H022N	08/08/13 09:00	08/08/13 16:34	EPA 526.2	
Chloroform	<0.0005	0.0005	mg/L	1	B3H022N	08/08/13 09:00	08/08/13 16:34	EPA 526.2	
cis-1,2-Dichloroethylene	<0.0005	0.0005	mg/L	1	B3H022N	08/08/13 09:00	08/08/13 16:34	EPA 526.2	
Dibromochloromethane	<0.0005	0.0005	mg/L	1	B3H022N	08/08/13 09:00	08/08/13 16:34	EPA 526.2	
Dichloromethane	<0.0005	0.0005	mg/L	1	B3H022N	08/08/13 09:00	08/08/13 16:34	EPA 526.2	
Ethylbenzene	<0.0005	0.0005	mg/L	1	B3H022N	08/08/13 09:00	08/08/13 16:34	EPA 526.2	
m,p-Xylene	<0.0005	0.0005	mg/L	1	B3H022N	08/08/13 09:00	08/08/13 16:34	EPA 526.2	
o-Xylene	<0.0005	0.0005	mg/L	1	B3H022N	08/08/13 09:00	08/08/13 16:34	EPA 526.2	
Styrene	<0.0005	0.0005	mg/L	1	B3H022N	08/08/13 09:00	08/08/13 16:34	EPA 526.2	
Tetrachloroethene	<0.0005	0.0005	mg/L	1	B3H022N	08/08/13 09:00	08/08/13 16:34	EPA 526.2	
Toluene	<0.0005	0.0005	mg/L	1	B3H022N	08/08/13 09:00	08/08/13 16:34	EPA 526.2	
Total THMs	<0.0005	0.0005	mg/L	1	B3H022N	08/08/13 09:00	08/08/13 16:34	EPA 526.2	
trans-1,2-Dichloroethene	<0.0005	0.0005	mg/L	1	B3H022N	08/08/13 09:00	08/08/13 16:34	EPA 526.2	
Trichloroethene	<0.0005	0.0005	mg/L	1	B3H022N	08/08/13 09:00	08/08/13 16:34	EPA 526.2	
Vinyl chloride	<0.0005	0.0005	mg/L	1	B3H022N	08/08/13 09:00	08/08/13 16:34	EPA 526.2	
Xylenes (total)	<0.0005	0.0005	mg/L	1	B3H022N	08/08/13 09:00	08/08/13 16:34	EPA 526.2	
Surrogate: 1,2-Dichlorobenzene-d4		*xx %*		*36-196*	*B9H6220*	*68/68/19*	*68/68/19*	*EPA 524.2*	

Valued Client	Project: Drinking Water	
POB 801	Project q umber: q ew Source HAMP 13-0111 AZ	**Reported:**
Gilbert, Arizona 85299	Project Manager: Yellow Jacket Drilling Services	09/06/13 12:05

Hamp Well #2 (Z1, 845) (3080194-01) Drinking Water (Grab) Sampled: 08/04/13 05:00 Received: 08/04/13 12:46

Analyte	Result	PQL	Units	Dilution	Batch	Prepared	Analyzed	Method	q otes
Legend Technical Services of Arizona, Inc.									
Volatile Organic Compounds									
Surrogate: 1,2-Dichloroethane-d4		*x2 %*		*36-196*	*B9H6220*	*68/68/19*	*68/68/19*	*EPA 524.2*	
Surrogate: 4-Bromofluorobenzene		*82 %*		*36-196*	*B9H6220*	*68/68/19*	*68/68/19*	*EPA 524.2*	
Surrogate: Pentafluorobenzene		*x4 %*		*36-196*	*B9H6220*	*68/68/19*	*68/68/19*	*EPA 524.2*	
Miscellaneous									
Langlier Index	**1.12**	-5.00	q/A	1	B3H0359	08/13/13 15:47	08/13/13 15:51	Miscellaneous	
Semi-Volatile Organic Compounds									**D1a**
3-Hydroxycarbofuran	<0.0050	0.0050	mg/L	10	B3H0663	08/15/13 11:00	08/15/13 20:01	EPA 531.2	
Aldicarb	<0.0050	0.0050	mg/L	10	B3H0663	08/15/13 11:00	08/15/13 20:01	EPA 531.2	
Aldicarb sulfone	<0.0080	0.0080	mg/L	10	B3H0663	08/15/13 11:00	08/15/13 20:01	EPA 531.2	
Aldicarb sulfoxide	<0.0050	0.0050	mg/L	10	B3H0663	08/15/13 11:00	08/15/13 20:01	EPA 531.2	
Carbaryl	<0.0050	0.0050	mg/L	10	B3H0663	08/15/13 11:00	08/15/13 20:01	EPA 531.2	
Carbofuran	<0.0090	0.0090	mg/L	10	B3H0663	08/15/13 11:00	08/15/13 20:01	EPA 531.2	
Methomyl	<0.0050	0.0050	mg/L	10	B3H0663	08/15/13 11:00	08/15/13 20:01	EPA 531.2	
Oxamyl	<0.0200	0.0200	mg/L	10	B3H0663	08/15/13 11:00	08/15/13 20:01	EPA 531.2	
Surrogate: 4-Bromo-9,7-dimethylphenyl-N-methylcarbamate		*169 %*		*36-196*	*B9H6449*	*68/17/19*	*68/17/19*	*EPA 531.2*	
Herbicides									**D1a**
Glyphosate	<0.0N0	0.0N0	mg/L	10	B3H0181	08/08/13 10:00	08/09/13 06:20	EPA 56F	
7iber4uant Analytical Services #AZ0N33									
EPA 100.1									
Asbestos	<9N8.8	9N8.8	M7L	20	q/A	08/05/13 00:00	08/09/13 00:00	EPA 100.1	

Total Metals - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	q otes
Batch B3H0151 - EPA 200.7										
Blank (B3H0151-BLK1)				*Prepared: 68/60/19 Analyzed: 68/63/19*						
Aluminum	<0.20	0.20	mg/L							
Barium	<0.01	0.01	mg/L							
Beryllium	<0.002	0.002	mg/L							
Calcium	<1	1	mg/L							
Chromium	<0.005	0.005	mg/L							
Copper	<0.01	0.01	mg/L							
Iron	<0.05	0.05	mg/L							
Magnesium	<1	1	mg/L							
Manganese	<0.02	0.02	mg/L							
q ickel	<0.02	0.02	mg/L							
Silicon	<0.1	0.1	mg/L							
Sodium	<1	1	mg/L							
Zinc	<0.02	0.02	mg/L							
LCS (B3H0151-BS1)				*Prepared: 68/60/19 Analyzed: 68/63/19*						
Aluminum	1.98	0.20	mg/L	2.00		99	85-115			
Barium	1.02	0.01	mg/L	1.00		102	85-115			
Beryllium	0.195	0.002	mg/L	0.200		9F	85-115			
Calcium	20	1	mg/L	20.0		98	85-115			
Chromium	0.695	0.005	mg/L	0.500		99	85-115			
Copper	0.98	0.01	mg/L	1.00		98	85-115			
Iron	0.99	0.05	mg/L	1.00		99	85-115			
Magnesium	20	1	mg/L	20.0		98	85-115			
Manganese	1.02	0.02	mg/L	1.00		102	85-115			
q ickel	0.99	0.02	mg/L	1.00		99	85-115			
Silicon	6.0	0.1	mg/L	6.00		100	85-115			
Sodium	20	1	mg/L	20.0		100	85-115			
Zinc	1.00	0.02	mg/L	1.00		100	85-115			

Total Metals - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	q otes
Batch B3H0151 - EPA 200.7										
Matrix Spike (B3H0151-MS1)		**Source: 3080358-01**		*Prepared: 68/60/19 Analyzed: 68/63/19*						
Barium	1.2N	0.01	mg/L	1.00	0.0F	119	F0-130			
Beryllium	0.190	0.002	mg/L	0.200	<0.002	95	F0-130			
Chromium	0.69N	0.005	mg/L	0.500	0.00N	98	F0-130			
Copper	0.9F	0.01	mg/L	1.00	0.06	96	F0-130			
Magnesium	26	1	mg/L	20.0	1	112	F0-130			
Manganese	1.18	0.02	mg/L	1.00	<0.02	118	F0-130			
q ickel	0.9N	0.02	mg/L	1.00	<0.02	9N	F5-125			
Zinc	1.01	0.02	mg/L	1.00	0.0F	96	F0-130			
Matrix Spike (B3H0151-MS2)		**Source: 3080358-01**		*Prepared: 68/60/19 Analyzed: 68/63/19*						
Aluminum	19.5	2.00	mg/L	20.0	0.0F51	9F	F0-130			
Calcium	23N	10	mg/L	200	63	9F	F0-130			
Iron	9.FN	0.50	mg/L	10.0	0.20	9N	F0-130			
Silicon	51.3	1.0	mg/L	60.0	12.8	9N	F0-130			
Sodium	689	10	mg/L	200	30F	91	F0-130			
Matrix Spike Dup (B3H0151-MSD1)		**Source: 3080358-01**		*Prepared: 68/60/19 Analyzed: 68/63/19*						
Barium	1.2N	0.01	mg/L	1.00	0.0F	119	F0-130	0.0F	20	
Beryllium	0.190	0.002	mg/L	0.200	<0.002	95	F0-130	0.03	20	
Chromium	0.695	0.005	mg/L	0.500	0.00N	98	F0-130	0.2	20	
Copper	0.9F	0.01	mg/L	1.00	0.06	96	F0-130	0.1	20	
Magnesium	23	1	mg/L	20.0	1	111	F0-130	1	20	
Manganese	1.1F	0.02	mg/L	1.00	<0.02	11F	F0-130	0.2	20	
q ickel	0.9N	0.02	mg/L	1.00	<0.02	9N	F5-125	0.02	20	
Zinc	1.01	0.02	mg/L	1.00	0.0F	96	F0-130	0.3	20	
Matrix Spike Dup (B3H0151-MSD2)		**Source: 3080358-01**		*Prepared: 68/60/19 Analyzed: 68/63/19*						
Aluminum	19.6	2.00	mg/L	20.0	0.0F51	9F	F0-130	0.6	20	
Calcium	235	10	mg/L	200	63	9N	F0-130	0.6	20	
Iron	9.93	0.50	mg/L	10.0	0.20	9F	F0-130	2	20	
Silicon	50.9	1.0	mg/L	60.0	12.8	95	F0-130	0.F	20	
Sodium	690	10	mg/L	200	30F	91	F0-130	0.1	20	

Total Metals - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	q otes
Batch B3H0152 - EPA 200.8										
Blank (B3H0152-BLK1)				*Prepared: 68/60/19 Analyzed: 68/63/19*						
Antimony	<0.0005	0.0005	mg/L							
Arsenic	<0.0010	0.0010	mg/L							
Cadmium	<0.0001	0.0001	mg/L							
Lead	<0.0010	0.0010	mg/L							
Selenium	<0.0020	0.0020	mg/L							
Silver	<0.0001	0.0001	mg/L							
Thallium	<0.0005	0.0005	mg/L							
LCS (B3H0152-BS1)				*Prepared: 68/60/19 Analyzed: 68/63/19*						
Antimony	0.02F3	0.0005	mg/L	0.0250		109	85-115			
Arsenic	0.02N6	0.0010	mg/L	0.0250		105	85-115			
Cadmium	0.02F3	0.0001	mg/L	0.0250		109	85-115			
Lead	0.02N2	0.0010	mg/L	0.0250		105	85-115			
Selenium	0.02N0	0.0020	mg/L	0.0250		106	85-115			
Silver	0.02N2	0.0001	mg/L	0.0250		105	85-115			
Thallium	0.0252	0.0005	mg/L	0.0250		101	85-115			
Matrix Spike (B3H0152-MS1)		**Source: 3080351-05**		*Prepared: 68/60/19 Analyzed: 68/63/19*						
Antimony	0.0288	0.0005	mg/L	0.0250	0.00006	115	F0-130			
Arsenic	0.0301	0.0010	mg/L	0.0250	0.0031	108	F0-130			
Cadmium	0.02N8	0.0001	mg/L	0.0250	<0.0001	10F	F0-130			
Lead	0.02N8	0.0010	mg/L	0.0250	0.0009	103	F0-130			
Silver	0.0228	0.0001	mg/L	0.0250	<0.0001	91	F0-130			
Thallium	0.022N	0.0005	mg/L	0.0250	<0.0005	90	F0-130			
Matrix Spike (B3H0152-MS2)		**Source: 3080358-01**		*Prepared: 68/60/19 Analyzed: 68/63/19*						
Arsenic	0.02F1	0.0010	mg/L	0.0250	0.0061	92	F0-130			
Cadmium	0.02F0	0.0001	mg/L	0.0250	0.00006	108	F0-130			
Lead	0.026N	0.0010	mg/L	0.0250	0.0050	F8	F0-130			
Selenium	0.0229	0.0020	mg/L	0.0250	<0.0020	91	F0-130			
Silver	0.0219	0.0001	mg/L	0.0250	<0.0001	8F	F0-130			
Thallium	0.0250	0.0005	mg/L	0.0250	0.00009	100	F0-130			

Total Metals - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	q otes
Batch B3H0152 - EPA 200.8										
Matrix Spike (B3H0152-MS3)		**Source: 3080358-01**		*Prepared: 68/60/19 Analyzed: 68/63/19*						
Antimony	0.132	0.0025	mg/L	0.125	0.0001	105	F0-130			
Matrix Spike Dup (B3H0152-MSD1)		**Source: 3080351-05**		*Prepared: 68/60/19 Analyzed: 68/63/19*						
Antimony	0.028N	0.0005	mg/L	0.0250	0.00006	116	F0-130	0.8	20	
Arsenic	0.0302	0.0010	mg/L	0.0250	0.0031	108	F0-130	0.6	20	
Cadmium	0.02NN	0.0001	mg/L	0.0250	<0.0001	10N	F0-130	0.F	20	
Lead	0.02N8	0.0010	mg/L	0.0250	0.0009	103	F0-130	0.2	20	
Silver	0.0223	0.0001	mg/L	0.0250	<0.0001	89	F0-130	2	20	
Thallium	0.0262	0.0005	mg/L	0.0250	<0.0005	9F	F0-130	F	20	
Matrix Spike Dup (B3H0152-MSD2)		**Source: 3080358-01**		*Prepared: 68/60/19 Analyzed: 68/63/19*						
Arsenic	0.02F1	0.0010	mg/L	0.0250	0.0061	92	F0-130	0.2	20	
Cadmium	0.02F2	0.0001	mg/L	0.0250	0.00006	109	F0-130	0.8	20	
Lead	0.02N0	0.0010	mg/L	0.0250	0.0050	86	F0-130	N	20	
Selenium	0.022N	0.0020	mg/L	0.0250	<0.0020	90	F0-130	1	20	
Silver	0.021F	0.0001	mg/L	0.0250	<0.0001	8F	F0-130	0.N	20	
Thallium	0.02N8	0.0005	mg/L	0.0250	0.00009	10F	F0-130	F	20	
Matrix Spike Dup (B3H0152-MSD3)		**Source: 3080358-01**		*Prepared: 68/60/19 Analyzed: 68/63/19*						
Antimony	0.132	0.0025	mg/L	0.125	0.0001	10N	F0-130	0.N	20	
Batch B3H0253 - EPA 245.1/245.2 Prep										
Blank (B3H0253-BLK1)				*Prepared & Analyzed: 68/68/19*						
Mercury	<0.0002	0.0002	mg/L							
LCS (B3H0253-BS1)				*Prepared & Analyzed: 68/68/19*						
Mercury	0.00099	0.0002	mg/L	0.00100		99	85-115			

Total Metals - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	q otes
Batch B3H0253 - EPA 245.1/245.2 Prep										
Matrix Spike (B3H0253-MS1)		**Source: 3080219-01**		*Prepared & Analyzed: 68/68/19*						
Mercury	0.00101	0.0002	mg/L	0.00100	<0.0002	101	F0-130			
Matrix Spike (B3H0253-MS2)		**Source: 3080349-01**		*Prepared & Analyzed: 68/68/19*						
Mercury	0.00100	0.0002	mg/L	0.00100	<0.0002	100	F0-130			
Matrix Spike Dup (B3H0253-MSD1)		**Source: 3080219-01**		*Prepared & Analyzed: 68/68/19*						
Mercury	0.00102	0.0002	mg/L	0.00100	<0.0002	102	F0-130	1	20	
Matrix Spike Dup (B3H0253-MSD2)		**Source: 3080349-01**		*Prepared & Analyzed: 68/68/19*						
Mercury	0.00099	0.0002	mg/L	0.00100	<0.0002	99	F0-130	1	20	

Inorganic Chemistry - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	q otes
Batch B3H0075 - NO PREP										
Duplicate (B3H0075-DUP1)		**Source: 3080194-01**		*Prepared & Analyzed: 68/64/19*						
pH	9.3		pH Units		9.2			1	10	
Temperature	10.2		°C		10.3			0.9FN	200	
Batch B3H0078 - NO PREP										
Blank (B3H0078-BLK1)				*Prepared & Analyzed: 68/64/19*						
Total Dissolved Solids	<1	1	mg/L							
Duplicate (B3H0078-DUP1)		**Source: 3072607-01**		*Prepared & Analyzed: 68/64/19*						
Total Dissolved Solids	31N	1	mg/L		308			3	5	
Duplicate (B3H0078-DUP2)		**Source: 3072626-03**		*Prepared & Analyzed: 68/64/19*						
Total Dissolved Solids	320	1	mg/L		318			0.N	5	
Batch B3H0113 - NO PREP										
Duplicate (B3H0113-DUP1)		**Source: 3080194-01**		*Prepared & Analyzed: 68/67/19*						
Color	100	1	Color Units		100			0	20	
Batch B3H0121 - NO PREP										
Blank (B3H0121-BLK1)				*Prepared & Analyzed: 68/67/19*						
q itrite as q	<0.10	0.10	mg/L							
LCS (B3H0121-BS1)				*Prepared & Analyzed: 68/67/19*						
q itrite as q	0.206	0.10	mg/L	0.200		102	80-120			

Inorganic Chemistry - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	q otes
Batch B3H0121 - NO PREP										
LCS Dup (B3H0121-BSD1)				*Prepared & Analyzed: 68/67/19*						
q itrite as q	0.205	0.10	mg/L	0.200		102	80-120	0.5	20	
Matrix Spike (B3H0121-MS1)		**Source: 3080229-03**		*Prepared & Analyzed: 68/67/19*						
q itrite as q	0.191	0.10	mg/L	0.200	<0.10	9N	80-120			
Matrix Spike Dup (B3H0121-MSD1)		**Source: 3080229-03**		*Prepared & Analyzed: 68/67/19*						
q itrite as q	0.190	0.10	mg/L	0.200	<0.10	95	80-120	0.5	20	
Batch B3H0161 - NO PREP										
Blank (B3H0161-BLK1)				*Prepared & Analyzed: 68/60/19*						
Cyanide, Total	<0.010	0.010	mg/L							
LCS (B3H0161-BS1)				*Prepared & Analyzed: 68/60/19*						
Cyanide, Total	0.050	0.010	mg/L	0.0500		100	80-120			
LCS Dup (B3H0161-BSD1)				*Prepared & Analyzed: 68/60/19*						
Cyanide, Total	0.050	0.010	mg/L	0.0500		100	80-120	0	20	
Matrix Spike (B3H0161-MS1)		**Source: 3072743-01**		*Prepared & Analyzed: 68/60/19*						
Cyanide, Total	0.068	0.010	mg/L	0.0500	<0.010	9N	80-120			
Matrix Spike Dup (B3H0161-MSD1)		**Source: 3072743-01**		*Prepared & Analyzed: 68/60/19*						
Cyanide, Total	0.068	0.010	mg/L	0.0500	<0.010	9N	80-120	0	20	
Batch B3H0204 - NO PREP										
Blank (B3H0204-BLK1)				*Prepared & Analyzed: 68/63/19*						
Total Alkalinity as CaCO3	<10	10	mg/L							

Inorganic Chemistry - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	q otes
Batch B3H0204 - NO PREP										
LCS (B3H0204-BS1)				*Prepared & Analyzed: 68/63/19*						
Total Alkalinity as CaCO3	19N	10	mg/L	200		98	80-120			
LCS Dup (B3H0204-BSD1)				*Prepared & Analyzed: 68/63/19*						
Total Alkalinity as CaCO3	19N	10	mg/L	200		98	80-120	0.2	20	
Matrix Spike (B3H0204-MS1)		**Source: 3072448-01**		*Prepared & Analyzed: 68/63/19*						
Total Alkalinity as CaCO3	35F	10	mg/L	200	1N5	9N	80-120			
Matrix Spike Dup (B3H0204-MSD1)		**Source: 3072448-01**		*Prepared & Analyzed: 68/63/19*						
Total Alkalinity as CaCO3	35N	10	mg/L	200	1N5	9N	80-120	0.1	20	
Batch B3H0218 - NO PREP										
Blank (B3H0218-BLK1)				*Prepared & Analyzed: 68/63/19*						
Total Organic Carbon	<1.00	1.00	mg/L							
LCS (B3H0218-BS1)				*Prepared & Analyzed: 68/63/19*						
Total Organic Carbon	10.5	1.00	mg/L	10.0		105	80-120			
LCS Dup (B3H0218-BSD1)				*Prepared & Analyzed: 68/63/19*						
Total Organic Carbon	10.5	1.00	mg/L	10.0		105	80-120	0	20	
Matrix Spike (B3H0218-MS1)		**Source: 3080398-01**		*Prepared & Analyzed: 68/63/19*						
Total Organic Carbon	16.3	1.00	mg/L	10.0	6.0F	102	80-120			
Matrix Spike Dup (B3H0218-MSD1)		**Source: 3080398-01**		*Prepared & Analyzed: 68/63/19*						
Total Organic Carbon	16.3	1.00	mg/L	10.0	6.0F	102	80-120	0	20	

Inorganic Chemistry - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	q otes
Batch B3H0225 - NO PREP										
Blank (B3H0225-BLK1)				*Prepared & Analyzed: 68/68/19*						
Chloride	<5.0	5.0	mg/L							
Sulfate	<5.0	5.0	mg/L							
LCS (B3H0225-BS1)				*Prepared & Analyzed: 68/68/19*						
Chloride	9.9	5.0	mg/L	10.0		99	90-110			
Sulfate	19.F	5.0	mg/L	20.0		98	90-110			
LCS Dup (B3H0225-BSD1)				*Prepared & Analyzed: 68/68/19*						
Chloride	10.0	5.0	mg/L	10.0		100	90-110	0.8	20	
Sulfate	19.8	5.0	mg/L	20.0		99	90-110	0.5	20	
Matrix Spike (B3H0225-MS1)		**Source: 3080109-01**		*Prepared & Analyzed: 68/68/19*						
Chloride	16.6	5.0	mg/L	10.0	5.1	93	90-110			
Sulfate	19.8	5.0	mg/L	20.0	0.N	9N	90-110			
Matrix Spike Dup (B3H0225-MSD1)		**Source: 3080109-01**		*Prepared & Analyzed: 68/68/19*						
Chloride	16.3	5.0	mg/L	10.0	5.1	92	90-110	0.F	20	
Sulfate	20.0	5.0	mg/L	20.0	0.N	9F	90-110	1	20	
Batch B3H0267 - NO PREP										
Blank (B3H0267-BLK1)				*Prepared & Analyzed: 68/6x/19*						
q itrate + q itrite as q	<0.20	0.20	mg/L							
Blank (B3H0267-BLK2)				*Prepared & Analyzed: 68/6x/19*						
q itrate + q itrite as q	<0.20	0.20	mg/L							

Inorganic Chemistry - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	q otes
Batch B3H0267 - NO PREP										
Blank (B3H0267-BLK3)				*Prepared & Analyzed: 68/6x/19*						
q itrate + q itrite as q	<0.20	0.20	mg/L							
Blank (B3H0267-BLK4)				*Prepared & Analyzed: 68/6x/19*						
q itrate + q itrite as q	<0.20	0.20	mg/L							
LCS (B3H0267-BS1)				*Prepared & Analyzed: 68/6x/19*						
q itrate + q itrite as q	10.3	0.20	mg/L	10.0		103	90-110			
LCS (B3H0267-BS2)				*Prepared & Analyzed: 68/6x/19*						
q itrate + q itrite as q	10.5	0.20	mg/L	10.0		105	90-110			
LCS Dup (B3H0267-BSD1)				*Prepared & Analyzed: 68/6x/19*						
q itrate + q itrite as q	10.6	0.20	mg/L	10.0		106	90-110	1	20	
LCS Dup (B3H0267-BSD2)				*Prepared & Analyzed: 68/6x/19*						
q itrate + q itrite as q	10.3	0.20	mg/L	10.0		103	90-110	2	20	
Matrix Spike (B3H0267-MS1)		**Source: 3080292-02**		*Prepared & Analyzed: 68/6x/19*						
q itrate + q itrite as q	1N.F	0.20	mg/L	10.0	N51	102	80-120			
Matrix Spike (B3H0267-MS2)		**Source: 3080311-04**		*Prepared & Analyzed: 68/6x/19*						
q itrate + q itrite as q	10.1	0.20	mg/L	10.0	<0.20	101	80-120			
Matrix Spike (B3H0267-MS3)		**Source: 3080462-01**		*Prepared & Analyzed: 68/6x/19*						
q itrate + q itrite as q	13.1	0.20	mg/L	10.0	2.8N	102	80-120			
Matrix Spike (B3H0267-MS4)		**Source: 3080563-01**		*Prepared & Analyzed: 68/6x/19*						
q itrate + q itrite as q	12.6	0.20	mg/L	10.0	2.16	103	80-120			

Inorganic Chemistry - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	q otes
Batch B3H0267 - NO PREP										
Matrix Spike Dup (B3H0267-MSD1)		**Source: 3080292-02**		*Prepared & Analyzed: 68/6x/19*						
q itrate + q itrite as q	1N.N	0.20	mg/L	10.0	N.51	101	80-120	0.N	20	
Matrix Spike Dup (B3H0267-MSD2)		**Source: 3080311-04**		*Prepared & Analyzed: 68/6x/19*						
q itrate + q itrite as q	10.6	0.20	mg/L	10.0	<0.20	106	80-120	3	20	
Matrix Spike Dup (B3H0267-MSD3)		**Source: 3080462-01**		*Prepared & Analyzed: 68/6x/19*						
q itrate + q itrite as q	13.3	0.20	mg/L	10.0	2.8N	106	80-120	2	20	
Matrix Spike Dup (B3H0267-MSD4)		**Source: 3080563-01**		*Prepared & Analyzed: 68/6x/19*						
q itrate + q itrite as q	12.8	0.20	mg/L	10.0	2.16	10F	80-120	3	20	
Batch B3H0381 - NO PREP										
Blank (B3H0381-BLK1)				*Prepared & Analyzed: 68/19/19*						
7luoride	<0.10	0.10	mg/L							
LCS (B3H0381-BS1)				*Prepared & Analyzed: 68/19/19*						
7luoride	2.01	0.10	mg/L	2.00		100	90-110			
LCS Dup (B3H0381-BSD1)				*Prepared & Analyzed: 68/19/19*						
7luoride	2.02	0.10	mg/L	2.00		101	90-110	0.5	20	
Matrix Spike (B3H0381-MS1)		**Source: 3080194-01**		*Prepared & Analyzed: 68/19/19*						
7luoride	2.18	0.10	mg/L	2.00	0.18	100	90-110			
Matrix Spike Dup (B3H0381-MSD1)		**Source: 3080194-01**		*Prepared & Analyzed: 68/19/19*						
7luoride	2.15	0.10	mg/L	2.00	0.18	99	90-110	1	20	

Volatile Organic Compounds - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	q otes
Batch B3H0226 - Default Prep VOC										
Blank (B3H0226-BLK1)				*Prepared & Analyzed: 68/68/19*						
1,1,1-Trichloroethane	<0.0005	0.0005	mg/L							
1,1,2-Trichloroethane	<0.0005	0.0005	mg/L							
1,1-Dichloroethene	<0.0005	0.0005	mg/L							
1,2,6-Trichlorobenzene	<0.0005	0.0005	mg/L							
1,2-Dichlorobenzene	<0.0005	0.0005	mg/L							
1,2-Dichloroethane	<0.0005	0.0005	mg/L							
1,2-Dichloropropane	<0.0005	0.0005	mg/L							
1,6-Dichlorobenzene	<0.0005	0.0005	mg/L							
Benzene	<0.0005	0.0005	mg/L							
Bromodichloromethane	<0.0005	0.0005	mg/L							
Bromoform	<0.0005	0.0005	mg/L							
Carbon tetrachloride	<0.0005	0.0005	mg/L							
Chlorobenzene	<0.0005	0.0005	mg/L							
Chloroform	<0.0005	0.0005	mg/L							
cis-1,2-Dichloroethylene	<0.0005	0.0005	mg/L							
Dibromochloromethane	<0.0005	0.0005	mg/L							
Dichloromethane	<0.0005	0.0005	mg/L							
Ethylbenzene	<0.0005	0.0005	mg/L							
m,p-Xylene	<0.0005	0.0005	mg/L							
o-Xylene	<0.0005	0.0005	mg/L							
Styrene	<0.0005	0.0005	mg/L							
Tetrachloroethene	<0.0005	0.0005	mg/L							
Toluene	<0.0005	0.0005	mg/L							
Total THMs	<0.0005	0.0005	mg/L							
trans-1,2-Dichloroethene	<0.0005	0.0005	mg/L							
Trichloroethene	<0.0005	0.0005	mg/L							
Vinyl chloride	<0.0005	0.0005	mg/L							
Xylenes (total)	<0.0005	0.0005	mg/L							

Volatile Organic Compounds - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	q otes
Batch B3H0226 - Default Prep VOC										
LCS (B3H0226-BS1)				*Prepared & Analyzed: 68/68/19*						
1,1,1-Trichloroethane	0.0019	0.0005	mg/L	0.00200		9N	F0-130			
1,1,2-Trichloroethane	0.0019	0.0005	mg/L	0.00200		9F	F0-130			
1,1-Dichloroethene	0.0019	0.0005	mg/L	0.00200		9N	F0-130			
1,2,6-Trichlorobenzene	0.001F	0.0005	mg/L	0.00200		8F	F0-130			
1,2-Dichlorobenzene	0.0019	0.0005	mg/L	0.00200		93	F0-130			
1,2-Dichloroethane	0.0019	0.0005	mg/L	0.00200		93	F0-130			
1,2-Dichloropropane	0.0019	0.0005	mg/L	0.00200		93	F0-130			
1,6-Dichlorobenzene	0.0019	0.0005	mg/L	0.00200		96	F0-130			
Benzene	0.0019	0.0005	mg/L	0.00200		96	F0-130			
Bromodichloromethane	0.0019	0.0005	mg/L	0.00200		96	F0-130			
Bromoform	0.0020	0.0005	mg/L	0.00200		98	F0-130			
Carbon tetrachloride	0.0021	0.0005	mg/L	0.00200		10N	F0-130			
Chlorobenzene	0.0019	0.0005	mg/L	0.00200		95	F0-130			
Chloroform	0.0018	0.0005	mg/L	0.00200		90	F0-130			
cis-1,2-Dichloroethylene	0.0018	0.0005	mg/L	0.00200		90	F0-130			
Dibromochloromethane	0.0019	0.0005	mg/L	0.00200		9N	F0-130			
Dichloromethane	0.0019	0.0005	mg/L	0.00200		96	F0-130			
Ethylbenzene	0.0018	0.0005	mg/L	0.00200		90	F0-130			
m,p-Xylene	0.003F	0.0005	mg/L	0.00600		92	F0-130			
o-Xylene	0.0018	0.0005	mg/L	0.00200		90	F0-130			
Styrene	0.0018	0.0005	mg/L	0.00200		91	F0-130			
Tetrachloroethene	0.0020	0.0005	mg/L	0.00200		100	F0-130			
Toluene	0.0018	0.0005	mg/L	0.00200		90	F0-130			
Total THMs	0.00FN	0.0005	mg/L	0.00800		96	0-200			
trans-1,2-Dichloroethene	0.0019	0.0005	mg/L	0.00200		96	F0-130			
Trichloroethene	0.0020	0.0005	mg/L	0.00200		9F	F0-130			
Vinyl chloride	0.0020	0.0005	mg/L	0.00200		102	F0-130			
Xylenes (total)	0.0055	0.0005	mg/L	0.00N00		92	0-200			

Volatile Organic Compounds - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	q otes
Batch B3H0226 - Default Prep VOC										
LCS Dup (B3H0226-BSD1)				*Prepared & Analyzed: 68/68/19*						
1,1,1-Trichloroethane	0.0019	0.0005	mg/L	0.00200		9N	F0-130	0.5	20	
1,1,2-Trichloroethane	0.0021	0.0005	mg/L	0.00200		105	F0-130	8	20	
1,1-Dichloroethene	0.0020	0.0005	mg/L	0.00200		100	F0-130	6	20	
1,2,6-Trichlorobenzene	0.001F	0.0005	mg/L	0.00200		8N	F0-130	2	20	
1,2-Dichlorobenzene	0.0019	0.0005	mg/L	0.00200		9N	F0-130	6	20	
1,2-Dichloroethane	0.0019	0.0005	mg/L	0.00200		96	F0-130	0.5	20	
1,2-Dichloropropane	0.0019	0.0005	mg/L	0.00200		95	F0-130	2	20	
1,6-Dichlorobenzene	0.0019	0.0005	mg/L	0.00200		9N	F0-130	3	20	
Benzene	0.0019	0.0005	mg/L	0.00200		95	F0-130	0.5	20	
Bromodichloromethane	0.0019	0.0005	mg/L	0.00200		96	F0-130	1	20	
Bromoform	0.0020	0.0005	mg/L	0.00200		100	F0-130	2	20	
Carbon tetrachloride	0.0021	0.0005	mg/L	0.00200		10N	F0-130	0.9	20	
Chlorobenzene	0.0019	0.0005	mg/L	0.00200		95	F0-130	0	20	
Chloroform	0.0020	0.0005	mg/L	0.00200		98	F0-130	9	20	
cis-1,2-Dichloroethylene	0.0019	0.0005	mg/L	0.00200		9N	F0-130	N	20	
Dibromochloromethane	0.0020	0.0005	mg/L	0.00200		99	F0-130	3	20	
Dichloromethane	0.0019	0.0005	mg/L	0.00200		93	F0-130	1	20	
Ethylbenzene	0.0018	0.0005	mg/L	0.00200		88	F0-130	2	20	
m,p-Xylene	0.003N	0.0005	mg/L	0.00600		89	F0-130	3	20	
o-Xylene	0.0018	0.0005	mg/L	0.00200		90	F0-130	1	20	
Styrene	0.0018	0.0005	mg/L	0.00200		90	F0-130	0.N	20	
Tetrachloroethene	0.0021	0.0005	mg/L	0.00200		103	F0-130	3	20	
Toluene	0.0019	0.0005	mg/L	0.00200		95	F0-130	N	20	
Total THMs	0.00F9	0.0005	mg/L	0.00800		99	0-200	6	200	
trans-1,2-Dichloroethene	0.0020	0.0005	mg/L	0.00200		98	F0-130	6	20	
Trichloroethene	0.0019	0.0005	mg/L	0.00200		96	F0-130	3	20	
Vinyl chloride	0.0020	0.0005	mg/L	0.00200		100	F0-130	2	20	
Xylenes (total)	0.0056	0.0005	mg/L	0.00N00		89	0-200	3	200	

Semi-Volatile Organic Compounds - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	q otes
Batch B3H0443 - Default Prep GC-Semi										
Blank (B3H0443-BLK1)				*Prepared & Analyzed: 68/17/19*						
3-Hydroxycarbofuran	<0.0005	0.0005	mg/L							
Aldicarb	<0.0005	0.0005	mg/L							
Aldicarb sulfone	<0.0008	0.0008	mg/L							
Aldicarb sulfoxide	<0.0005	0.0005	mg/L							
Carbaryl	<0.0005	0.0005	mg/L							
Carbofuran	<0.0009	0.0009	mg/L							
Methomyl	<0.0005	0.0005	mg/L							
Oxamyl	<0.0020	0.0020	mg/L							
LCS (B3H0443-BS1)				*Prepared & Analyzed: 68/17/19*						
3-Hydroxycarbofuran	0.0020	0.0005	mg/L	0.00200		102	F0-130			
Aldicarb	0.0020	0.0005	mg/L	0.00200		102	F0-130			
Aldicarb sulfone	0.0021	0.0008	mg/L	0.00200		103	F0-130			
Aldicarb sulfoxide	0.0022	0.0005	mg/L	0.00200		108	F0-130			
Carbaryl	0.0021	0.0005	mg/L	0.00200		106	F0-130			
Carbofuran	0.0021	0.0009	mg/L	0.00200		105	F0-130			
Methomyl	0.0021	0.0005	mg/L	0.00200		105	F0-130			
Oxamyl	0.0021	0.0020	mg/L	0.00200		10N	F0-130			
LCS Dup (B3H0443-BSD1)				*Prepared & Analyzed: 68/17/19*						
3-Hydroxycarbofuran	0.0021	0.0005	mg/L	0.00200		103	F0-130	0.3	20	
Aldicarb	0.0020	0.0005	mg/L	0.00200		102	F0-130	0.2	20	
Aldicarb sulfone	0.0021	0.0008	mg/L	0.00200		103	F0-130	0.2	20	
Aldicarb sulfoxide	0.0022	0.0005	mg/L	0.00200		108	F0-130	0.6	20	
Carbaryl	0.0021	0.0005	mg/L	0.00200		106	F0-130	0.2	20	
Carbofuran	0.0021	0.0009	mg/L	0.00200		105	F0-130	0.2	20	
Methomyl	0.0021	0.0005	mg/L	0.00200		105	F0-130	0.2	20	
Oxamyl	0.0021	0.0020	mg/L	0.00200		105	F0-130	0.9	20	

Semi-Volatile Organic Compounds - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	q otes
Batch B3H0443 - Default Prep GC-Semi										
Matrix Spike (B3H0443-MS1)		**Source: 3080462-01**		*Prepared & Analyzed: 68/17/19*						
3-Hydroxycarbofuran	0.0021	0.0005	mg/L	0.00200	<0.0005	103	F0-130			
Aldicarb	0.0020	0.0005	mg/L	0.00200	<0.0005	102	F0-130			
Aldicarb sulfone	0.0021	0.0008	mg/L	0.00200	<0.0008	10N	F0-130			
Aldicarb sulfoxide	0.0022	0.0005	mg/L	0.00200	<0.0005	112	F0-130			
Carbaryl	0.0021	0.0005	mg/L	0.00200	<0.0005	106	F0-130			
Carbofuran	0.0021	0.0009	mg/L	0.00200	<0.0009	105	F0-130			
Methomyl	0.0021	0.0005	mg/L	0.00200	<0.0005	10F	F0-130			
Oxamyl	0.0021	0.0020	mg/L	0.00200	<0.0020	10F	F0-130			
Matrix Spike Dup (B3H0443-MSD1)		**Source: 3080462-01**		*Prepared & Analyzed: 68/17/19*						
3-Hydroxycarbofuran	0.0021	0.0005	mg/L	0.00200	<0.0005	103	F0-130	0.1	30	
Aldicarb	0.0020	0.0005	mg/L	0.00200	<0.0005	102	F0-130	0.6	30	
Aldicarb sulfone	0.0021	0.0008	mg/L	0.00200	<0.0008	105	F0-130	0.5	30	
Aldicarb sulfoxide	0.0022	0.0005	mg/L	0.00200	<0.0005	112	F0-130	0.3	30	
Carbaryl	0.0021	0.0005	mg/L	0.00200	<0.0005	106	F0-130	0.6	30	
Carbofuran	0.0021	0.0009	mg/L	0.00200	<0.0009	106	F0-130	0.9	30	
Methomyl	0.0021	0.0005	mg/L	0.00200	<0.0005	10N	F0-130	0.6	30	
Oxamyl	0.0022	0.0020	mg/L	0.00200	<0.0020	108	F0-130	0.2	30	

Herbicides - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	q otes
Batch B3H0181 - Default Prep GC-Semi										
Blank (B3H0181-BLK1)				*Prepared & Analyzed: 68/68/19*						
Glyphosate	<0.00N	0.00N	mg/L							
LCS (B3H0181-BS1)				*Prepared & Analyzed: 68/68/19*						
Glyphosate	0.056	0.00N	mg/L	0.0500		108	F0-130			
LCS Dup (B3H0181-BSD1)				*Prepared & Analyzed: 68/68/19*						
Glyphosate	0.069	0.00N	mg/L	0.0500		9F	F0-130	10	20	
Matrix Spike (B3H0181-MS1)		**Source: 3072452-01**		*Prepared & Analyzed: 68/68/19*						
Glyphosate	0.051	0.00N	mg/L	0.0500	<0.00N	103	F0-130			
Matrix Spike Dup (B3H0181-MSD1)		**Source: 3072452-01**		*Prepared & Analyzed: 68/68/19*						
Glyphosate	0.051	0.00N	mg/L	0.0500	<0.00N	101	F0-130	2	20	

PESTICIDES/PCBS 505 - Quality Control

Legend Technical Services, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	q otes
Batch B3H1414 - EPA 500 Series										
Blank (B3H1414-BLK1)				*Prepared & Analyzed: 68/14/19*						
Aroclor 101N	<0.000080	0.000080	mg/L							
Aroclor 1221	<0.020	0.020	mg/L							
Aroclor 1232	<0.00050	0.00050	mg/L							
Aroclor 1262	<0.00030	0.00030	mg/L							
Aroclor 1268	<0.00010	0.00010	mg/L							
Aroclor 1256	<0.00010	0.00010	mg/L							
Aroclor 12ND	<0.00020	0.00020	mg/L							
Chlordane	<0.00020	0.00020	mg/L							
Toxaphene	<0.0010	0.0010	mg/L							
LCS (B3H1414-BS1)				*Prepared & Analyzed: 68/14/19*						
Toxaphene	0.00223	0.0010	mg/L	0.00200		111	F0-130			
LCS Dup (B3H1414-BSD1)				*Prepared & Analyzed: 68/14/19*						
Toxaphene	0.00202	0.0010	mg/L	0.00200		101	F0-130	9.99	20	
Matrix Spike (B3H1414-MS1)		**Source: 1303732-01**		*Prepared & Analyzed: 68/14/19*						
Toxaphene	0.00189	0.0010	mg/L	0.0019N	<0.0010	9N6	N5-135			

EPA 504.1 - Quality Control

UL#AZ0432

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	q otes
Batch 182492 - MLLE										
Blank (2873191)		**Source: 41048**		*Prepared & Analyzed: 68/68/19*						
1,2-Dibromo-3-chloropropane (DBCP)	<0.00001	0.00001	mg/L				-			
1,2-Dibromoethane (EDB)	<0.00001	0.00001	mg/L				-			
Reference (2873192)		**Source: 41048**		*Prepared & Analyzed: 68/68/19*						
1,2-Dibromo-3-chloropropane (DBCP)	0.00002	0.00001	mg/L	0.00002		110	N0-160			
1,2-Dibromoethane (EDB)	0.00002	0.00001	mg/L	0.00002		11N	N0-160			
Reference (2873193)		**Source: 41048**		*Prepared & Analyzed: 68/68/19*						
1,2-Dibromo-3-chloropropane (DBCP)	0.00010	0.00001	mg/L	0.0001		102	F0-130			
1,2-Dibromoethane (EDB)	0.00010	0.00001	mg/L	0.0001		9N	F0-130			
Reference (2873194)		**Source: 41048**		*Prepared: 68/68/19 Analyzed: 68/6x/19*						
1,2-Dibromo-3-chloropropane (DBCP)	0.00010	0.00001	mg/L	0.0001		106	F0-130			
1,2-Dibromoethane (EDB)	0.00009	0.00001	mg/L	0.0001		91	F0-130			
LCS (2873195)		**Source: 41048**		*Prepared & Analyzed: 68/68/19*						
1,2-Dibromo-3-chloropropane (DBCP)	0.00023	0.00001	mg/L	0.00025F		89	F0-130			
1,2-Dibromoethane (EDB)	0.00020	0.00001	mg/L	0.00025F		80	F0-130			
LCS (2873196)		**Source: 41048**		*Prepared & Analyzed: 68/68/19*						
1,2-Dibromo-3-chloropropane (DBCP)	0.00026	0.00001	mg/L	0.00025F		96	F0-130			
1,2-Dibromoethane (EDB)	0.00021	0.00001	mg/L	0.00025F		82	F0-130			

EPA 515.3 - Quality Control

UL#AZ0432

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	q otes
Batch 182762 - MLLE										
Blank (2877349)		**Source: 41130**		*Prepared: 68/17/19 Analyzed: 68/10/19*						
2,6,5-TP (Silvex)	<0.0001	0.0001	mg/L				-			
2,6-D	<0.0001	0.0001	mg/L				-			
Dalapon	<0.0010	0.0010	mg/L				-			
Dicamba	<0.0001	0.0001	mg/L				-			
Dinoseb	<0.0001	0.0001	mg/L				-			
Pentachlorophenol	<0.00006	0.00006	mg/L				-			
Picloram	<0.0001	0.0001	mg/L				-			
LCS (2877350)		**Source: 41130**		*Prepared: 68/17/19 Analyzed: 68/10/19*						
2,6,5-TP (Silvex)	<0.0001	0.0001	mg/L	0.0001		88	68-168			
2,6-D	0.0003	0.0001	mg/L	0.0002		139	26-138			q6
Dinoseb	0.0002	0.0001	mg/L	0.0002		111	39-161			
Pentachlorophenol	0.00006	0.00006	mg/L	0.00006		110	30-1F1			
Picloram	0.0001	0.0001	mg/L	0.0001		121	26-150			
Reference (2877360)		**Source: 41130**		*Prepared: 68/17/19 Analyzed: 68/10/19*						
2,6,5-TP (Silvex)	0.0005	0.0001	mg/L	0.0005		110	F0-130			
2,6-D	0.0013	0.0001	mg/L	0.001		130	F0-130			
Dalapon	0.0011	0.0010	mg/L	0.001		112	F0-130			
Dicamba	0.0011	0.0001	mg/L	0.001		111	F0-130			
Dinoseb	0.0011	0.0001	mg/L	0.001		108	F0-130			
Pentachlorophenol	0.00023	0.00006	mg/L	0.0002		113	F0-130			
Picloram	0.000N	0.0001	mg/L	0.0005		115	F0-130			
Reference (2877361)		**Source: 41130**		*Prepared: 68/17/19 Analyzed: 68/13/19*						
2,6,5-TP (Silvex)	0.0015	0.0001	mg/L	0.0015		103	F0-130			
2,6-D	0.0033	0.0001	mg/L	0.003		109	F0-130			
Dalapon	0.0031	0.0010	mg/L	0.003		103	F0-130			
Dicamba	0.0031	0.0001	mg/L	0.003		102	F0-130			
Dinoseb	0.0032	0.0001	mg/L	0.003		10N	F0-130			
Pentachlorophenol	0.000N6	0.00006	mg/L	0.000N		10N	F0-130			
Picloram	0.001F	0.0001	mg/L	0.0015		111	F0-130			

EPA 525.2 - Quality Control

UL#AZ0432

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	q otes
Batch 182555 - SPE										
Blank (2874269)		**Source: 41068**		*Prepared & Analyzed: 68/6x/19*						
Alachlor	<0.0001	0.0001	mg/L				-			
Aldrin	<0.0001	0.0001	mg/L				-			
Atrazine	<0.0001	0.0001	mg/L				-			
Benzo(a)pyrene	<0.00002	0.00002	mg/L				-			
Butachlor	<0.0001	0.0001	mg/L				-			
Di(2-ethylhexyl)adipate	<0.000N	0.000N	mg/L				-			
Di(2-ethylhexyl)phthalate	<0.000N	0.000N	mg/L				-			
Dieldrin	<0.0001	0.0001	mg/L				-			
Endrin	<0.00001	0.00001	mg/L				-			
gamma-BHC (Lindane)	<0.00002	0.00002	mg/L				-			
Heptachlor	<0.00006	0.00006	mg/L				-			
Heptachlor epoxide	<0.00002	0.00002	mg/L				-			
Hexachlorobenzene	<0.0001	0.0001	mg/L				-			
Hexachlorocyclopentadiene	<0.0001	0.0001	mg/L				-			
Methoxychlor	<0.0001	0.0001	mg/L				-			
Metolachlor	<0.0001	0.0001	mg/L				-			
Metribuzin	<0.0001	0.0001	mg/L				-			
Propachlor	<0.0001	0.0001	mg/L				-			
Simazine	<0.0000F	0.0000F	mg/L				-			
LCS (2874270)		**Source: 41068**		*Prepared & Analyzed: 68/6x/19*						
Alachlor	<0.0001	0.0001	mg/L	0.0001		9N	NN-122			
Atrazine	<0.0001	0.0001	mg/L	0.0001		98	F3-138			
Benzo(a)pyrene	0.00002	0.00002	mg/L	0.00002		105	63-1F6			
Di(2-ethylhexyl)adipate	0.000F	0.000N	mg/L	0.000N		118	F5-16F			
Di(2-ethylhexyl)phthalate	0.000N	0.000N	mg/L	0.000N		101	56-169			
Endrin	<0.00001	0.00001	mg/L	0.00001		80	62-296			
gamma-BHC (Lindane)	0.00002	0.00002	mg/L	0.00002		105	F3-150			
Heptachlor	<0.00006	0.00006	mg/L	0.00006		80	N5-126			
Heptachlor epoxide	<0.00002	0.00002	mg/L	0.00002		F5	6N-1N3			
Hexachlorobenzene	<0.0001	0.0001	mg/L	0.0001		N6	N2-116			
Hexachlorocyclopentadiene	<0.0001	0.0001	mg/L	0.0001		N8	51-102			
Methoxychlor	<0.0001	0.0001	mg/L	0.0001		95	51-111			
Metolachlor	<0.0001	0.0001	mg/L	0.0001		96	N1-11N			
Simazine	<0.0000F	0.0000F	mg/L	0.0000F		83	NN-118			

EPA 525.2 - Quality Control

UL#AZ0432

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	q otes
Batch 182555 - SPE										
LCS (2874271)		**Source: 41068**		*Prepared & Analyzed: 68/6x/19*						
Alachlor	0.0021	0.0001	mg/L	0.002		106	F0-130			
Aldrin	0.001F	0.0001	mg/L	0.002		8N	F0-130			
Atrazine	0.0022	0.0001	mg/L	0.002		109	F0-130			
Benzo(a)pyrene	0.0019	0.00002	mg/L	0.002		9N	F0-130			
Butachlor	0.0019	0.0001	mg/L	0.002		9F	F0-130			
Di(2-ethylhexyl)adipate	0.0023	0.000N	mg/L	0.002		116	F0-130			
Di(2-ethylhexyl)phthalate	0.0020	0.000N	mg/L	0.002		102	F0-130			
Dieldrin	0.0020	0.0001	mg/L	0.002		98	F0-130			
Endrin	0.0020	0.00001	mg/L	0.002		99	F0-130			
gamma-BHC (Lindane)	0.0021	0.00002	mg/L	0.002		103	F0-130			
Heptachlor	0.0019	0.00006	mg/L	0.002		95	F0-130			
Heptachlor epoxide	0.0020	0.00002	mg/L	0.002		99	F0-130			
Hexachlorobenzene	0.0019	0.0001	mg/L	0.002		93	F0-130			
Hexachlorocyclopentadiene	0.0020	0.0001	mg/L	0.002		102	F0-130			
Methoxychlor	0.0021	0.0001	mg/L	0.002		106	F0-130			
Metolachlor	0.0020	0.0001	mg/L	0.002		102	F0-130			
Metribuzin	0.0018	0.0001	mg/L	0.002		91	F0-130			
Propachlor	0.0022	0.0001	mg/L	0.002		109	F0-130			
Simazine	0.0019	0.0000F	mg/L	0.002		96	F0-130			
Reference (2874273)		**Source: 41069**		*Prepared & Analyzed: 68/6x/19*						
Alachlor	0.0010	0.0001	mg/L	0.001		102	F0-130			
Aldrin	0.0009	0.0001	mg/L	0.001		8F	F0-130			
Atrazine	0.0010	0.0001	mg/L	0.001		9F	F0-130			
Benzo(a)pyrene	0.0010	0.00002	mg/L	0.001		102	F0-130			
Butachlor	0.0010	0.0001	mg/L	0.001		98	F0-130			
Di(2-ethylhexyl)adipate	0.0011	0.000N	mg/L	0.001		113	F0-130			
Di(2-ethylhexyl)phthalate	0.0010	0.000N	mg/L	0.001		98	F0-130			
Dieldrin	0.0009	0.0001	mg/L	0.001		95	F0-130			
Endrin	0.00100	0.00001	mg/L	0.001		100	F0-130			
gamma-BHC (Lindane)	0.00095	0.00002	mg/L	0.001		95	F0-130			
Heptachlor	0.00095	0.00006	mg/L	0.001		95	F0-130			
Heptachlor epoxide	0.00091	0.00002	mg/L	0.001		91	F0-130			
Hexachlorobenzene	0.0009	0.0001	mg/L	0.001		92	F0-130			
Hexachlorocyclopentadiene	0.0011	0.0001	mg/L	0.001		10N	F0-130			
Methoxychlor	0.0010	0.0001	mg/L	0.001		98	F0-130			
Metolachlor	0.0009	0.0001	mg/L	0.001		96	F0-130			
Metribuzin	0.0010	0.0001	mg/L	0.001		105	F0-130			
Propachlor	0.0010	0.0001	mg/L	0.001		101	F0-130			
Simazine	0.00091	0.0000F	mg/L	0.001		91	F0-130			

EPA 525.2 - Quality Control

UL#AZ0432

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	q otes
Batch 182555 - SPE										
Reference (2874274)		**Source: 41069**		*Prepared: 68/6x/19 Analyzed: 68/16/19*						
Alachlor	0.0010	0.0001	mg/L	0.001		9F	F0-130			
Aldrin	0.0009	0.0001	mg/L	0.001		93	F0-130			
Atrazine	0.0010	0.0001	mg/L	0.001		100	F0-130			
Benzo(a)pyrene	0.0010	0.00002	mg/L	0.001		101	F0-130			
Butachlor	0.0010	0.0001	mg/L	0.001		95	F0-130			
Di(2-ethylhexyl)adipate	0.0011	0.000N	mg/L	0.001		116	F0-130			
Di(2-ethylhexyl)phthalate	0.0010	0.000N	mg/L	0.001		106	F0-130			
Dieldrin	0.0010	0.0001	mg/L	0.001		100	F0-130			
Endrin	0.00095	0.00001	mg/L	0.001		95	F0-130			
gamma-BHC (Lindane)	0.00099	0.00002	mg/L	0.001		99	F0-130			
Heptachlor	0.0009N	0.00006	mg/L	0.001		9N	F0-130			
Heptachlor epoxide	0.00088	0.00002	mg/L	0.001		88	F0-130			
Hexachlorobenzene	0.0009	0.0001	mg/L	0.001		92	F0-130			
Hexachlorocyclopentadiene	0.0011	0.0001	mg/L	0.001		108	F0-130			
Methoxychlor	0.0010	0.0001	mg/L	0.001		98	F0-130			
Metolachlor	0.0009	0.0001	mg/L	0.001		95	F0-130			
Metribuzin	0.0010	0.0001	mg/L	0.001		103	F0-130			
Propachlor	0.0010	0.0001	mg/L	0.001		101	F0-130			
Simazine	0.00091	0.0000F	mg/L	0.001		91	F0-130			
Reference (2874461)		**Source: 41069**		*Prepared: 68/6x/19 Analyzed: 68/16/19*						
Alachlor	0.0010	0.0001	mg/L	0.001		106	F0-130			
Aldrin	0.0009	0.0001	mg/L	0.001		92	F0-130			
Atrazine	0.0009	0.0001	mg/L	0.001		93	F0-130			
Benzo(a)pyrene	0.0010	0.00002	mg/L	0.001		102	F0-130			
Butachlor	0.0011	0.0001	mg/L	0.001		10F	F0-130			
Di(2-ethylhexyl)adipate	0.0012	0.000N	mg/L	0.001		122	F0-130			
Di(2-ethylhexyl)phthalate	0.0012	0.000N	mg/L	0.001		11N	F0-130			
Dieldrin	0.0010	0.0001	mg/L	0.001		106	F0-130			
Endrin	0.0012	0.00001	mg/L	0.001		11N	F0-130			
gamma-BHC (Lindane)	0.0010	0.00002	mg/L	0.001		101	F0-130			
Heptachlor	0.0010	0.00006	mg/L	0.001		105	F0-130			
Heptachlor epoxide	0.0010	0.00002	mg/L	0.001		102	F0-130			
Hexachlorobenzene	0.0009	0.0001	mg/L	0.001		92	F0-130			
Hexachlorocyclopentadiene	0.0011	0.0001	mg/L	0.001		109	F0-130			
Methoxychlor	0.0010	0.0001	mg/L	0.001		99	F0-130			
Metolachlor	0.0010	0.0001	mg/L	0.001		98	F0-130			
Metribuzin	0.0010	0.0001	mg/L	0.001		105	F0-130			
Propachlor	0.0010	0.0001	mg/L	0.001		103	F0-130			
Simazine	0.00085	0.0000F	mg/L	0.001		85	F0-130			

EPA 548.1 - Quality Control

UL#AZ0432

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	q otes
Batch 182548 - SPE										
Blank (2874283)		**Source: 41070**		*Prepared & Analyzed: 68/6x/19*						
Endothall	<0.0090	0.0090	mg/L				-			
LCS (2874284)		**Source: 41070**		*Prepared & Analyzed: 68/6x/19*						
Endothall	0.10	0.0090	mg/L	0.1		101	F0-162			
LCS (2874285)		**Source: 41070**		*Prepared & Analyzed: 68/6x/19*						
Endothall	0.012	0.0090	mg/L	0.009		133	38-1N1			
Reference (2874287)		**Source: 41071**		*Prepared & Analyzed: 68/6x/19*						
Endothall	0.11	0.0090	mg/L	0.1		109	F0-130			
Reference (2874288)		**Source: 41071**		*Prepared & Analyzed: 68/6x/19*						
Endothall	0.11	0.0090	mg/L	0.1		108	F0-130			
Reference (2874289)		**Source: 41071**		*Prepared: 68/6x/19 Analyzed: 68/16/19*						
Endothall	0.11	0.0090	mg/L	0.1		105	F0-130			

EPA 549.2 - Quality Control

UL#AZ0432

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	q otes
Batch 182420 - SPE										
Reference (2871677)		**Source: 40865**		*Prepared: 63/27/19 Analyzed: 68/63/19*						
Di4uat	0.0018	0.0006	mg/L	0.002		91	80-120			
Reference (2871678)		**Source: 40865**		*Prepared: 63/27/19 Analyzed: 68/63/19*						
Di4uat	0.006F	0.0006	mg/L	0.005		96	80-120			
LCS (2871679)		**Source: 41028**		*Prepared & Analyzed: 68/63/19*						
Di4uat	0.0061	0.0006	mg/L	0.005		83	F0-130			
Blank (2871680)		**Source: 41028**		*Prepared & Analyzed: 68/63/19*						
Di4uat	<0.0006	0.0006	mg/L				-			
LCS (2871681)		**Source: 41028**		*Prepared & Analyzed: 68/63/19*						
Di4uat	<0.0006	0.0006	mg/L	0.0006		55	21-1N1			

EPA-5 1613B-Tetras - Quality Control

Pace Analytical Services, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	q otes
Batch 13756 - 1613										
Blank (BLANK-37386)				*Prepared: 68/12/19 Analyzed: 68/14/19*						
Dioxin	q D	0.000000005	mg/L				31-13F			
LCS (LCS-37387)				*Prepared: 68/12/19 Analyzed: 68/14/19*						
Dioxin	2.6e-00F	0.000000005	mg/L	200			F3-16N			
LCSD (LCSD-37388)		**Source: LCS-37387**		*Prepared: 68/12/19 Analyzed: 68/14/19*						
Dioxin	2.6e-00F	0.000000005	mg/L	200	0.00000026		F3-16N	1.8	0	

Notes and Definitions

SF	Surrogate recovery was below laboratory and method acceptance limits. Unable to confirm matrix effect.
S12	Surrogate recovery was low. Data reported per ADEQ policy 0156.000.
q 6	The Minimum Reporting Limit (MRL) verification check did not meet laboratory acceptance limits.
q 1	See case narrative
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
EF	Concentration estimated. Internal standard recoveries did not meet laboratory acceptance criteria.
D1a	Sample re4uired dilution due to matrix.
D1	Sample re4uired dilution due to matrix
BLK	Method Blank
LCS/Dup	Laboratory Control Sample/Laboratory 7ortified Blank/Duplicate
MS/Dup	Matrix Spike/Duplicate
Dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Laboratory Sample ID: 3080194

CHAIN OF CUSTODY RECORD

LEGEND Technical Services, Inc.

☑ 17631 N. 25th Avenue • Phoenix, AZ 85023 • (602) 324-6100 • Fax (602) 324-6101
☐ 4585 S. Palo Verde Rd, Ste 423 • Tucson, AZ 85706 • (520) 327-1234 • Fax (520) 327-0518

Page 1 of 1

Please Print Clearly

CLIENT INFORMATION

Client Name	Address	City	State	Zip	Phone	Fax Number or Email Address
Yellow Jacket Drilling Svcs	POB 801	Gilbert	AZ	85299-0801	602 453-3252	vern@yjdrilling.com

Project Name	Project Number/PWS	Contact	P.O. No.	
New Source HAMP	13-0111 AZ	Vern		Fax Results ☐ QC Report ☐ EDD ☐ Email Results ☒ Special Detection Limits ☐ Write @ shemaker.com

SAMPLE TYPE CODES: DW=Drinking Water, WW=Wastewater, SW=Surface Water, G=Groundwater, O=Other, S=Soil/Solid, T=Travel Blank, F=Food, G=Sludge/Biosolids

TURN AROUND TIME: Laboratory Authorization Required for Rush
☒ Standard 15-20 Working Days for all others
☒ Other Rush Arsenic (Laboratory Authorization Required)

REQUESTED ANALYSES

Client's	Date	Time	Sample Location/POE/DWR	Composite	Grab	Sample Type	Compliance	No. of Containers	pH ✓ (Lab Use Only)	Metals*	Asbestos	Cyanide	Nitrate, Nitrite	Langlier Index**	Total Coliform	Sulfate	Fluoride	Total Hardness	505, 515, 525	531, 547, 548	549, Dioxin	524, 504	Gross Alpha	Radium 226/228	LAB ID
HAMP WELL #2	8/4/2013		Sodium, Z 1845		X	DW		3		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-01
Travel Blank (Do Not Open)	"	"			X	DI		3														X			-02
Temperature Blank								1																	

RUSH
AS - 8/08/13

WEEKEND/HOLIDAY SAMPLES

TO ENSURE COMPLETION OF ANALYSIS, SAMPLES MUST BE RECEIVED AT LEAST 3 HOURS PRIOR TO THE HOLD TIME EXPIRATION

Comments / Special Instructions: *Metals= Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Na, Tl **Langlier Index= Ca, Alkalinity, TDS, pH ***Total Hardness= Ca, Mg Please Rush As Results

If sample source is chlorinated, different sample containers/preservatives must be used for dechlorination. Use Standard Drinking Water detection limits, See list for TAB required

SAMPLE CONDITION UPON RECEIPT (Lab Use)		
No. of Containers	35	
Temperature	2.10°C	
Custody Seals	Y	(N)
Seals Intact	Y	N
Preserved	(Y)	N

	RELINQUISHED BY		SAMPLES RECEIVED BY	
①	Sampler Signature: Sherry Fritz	8/4/2013	Signature: [signature]	Date: 8-4-13
	Sampler Printed Name: SHERRY FRITZ	5:45 pm	Printed Name: Jose Viveria	Time: 5:41 pm
②	Signature: [signature]	Date: 8-4-13	Signature: Nanne E Phillips	Date: 8/4/13
	Printed Name: Jose Viveria	Time: 9:01	Printed Name: Nanne E Phillips	Time: 807
③	Signature: Nanne E Phillips	Date: 8/4/13	Signature: [signature]	Date: 8/4/13
	Printed Name: Nanne Phillips	Time: 1246	Printed Name: Jose Cobar	Time: 1246

WHITE-LAB YELLOW-CLIENT

FORM GEN-170 (05/06)

The "new source approval" test from Legend Technical Services shall comply with the most recent version of the National Primary Drinking Water Regulations and shall test for the following general classes of contaminants:

1. Microorganisms
2. Organic Chemicals 3080194
3. Inorganic Chemicals
4. Radionuclides

The Contractor shall also sample and test for the following secondary parameters to determine water chemistry that may lead to customer complaints or operation and maintenance problems:

1. Alkalinity
2. Aluminum
3. Calcium
4. Chloride
5. Color
6. Copper
7. Corrosivity
8. Flouride
9. Hardness as CaCO3
10. Iron
11. Magnesium
12. Manganese
13. Nickel
14. Odor
15. pH
16. Silver
17. Sodium
18. Sulfate
19. Total Dissolved Solids (TDS)
20. Total Organic Carbon (TOC)
21. Zinc
22. Silica

Sample analysis (both acquisition and payment) shall be the sole responsibility of the Contractor. The Project Engineer shall be present during water sampling and shall initial the custody seals of the sample containers.

Legend Technical Services of Arizona, Inc. **PO Number:** 3080194

SUBCONTRACT ORDER
3080194

SENDING LABORATORY:

Legend Technical Services of Arizona, Inc.
17631 North 25th Avenue
Phoenix, AZ 85023
Phone: 602-324-6100
Fax: 602-324-6101
Project Manager: Cory Lund
Project: Drinking Water

RECEIVING LABORATORY:

Legend Technical Services, St. Paul AZ0557
68 Empire Drive
Saint Paul, MN 55103
Phone :(800) 826-8553
Fax: (651) 642-1239

Client: Valued Client - Yellow Jacket Drilling

Analysis	Due	Expires	Sample Comments
Sample ID: 3080194-01 Drinking Wat **Sampled:08/04/13 05:00**			
505-Subcontract	08/14/13 09:00	08/18/13 05:00	

Containers Supplied:
10, 40mL Sodium Thiosulfate Clear Vial Cool to 4° C (Q)
10, 40mL Sodium Thiosulfate Clear Vial Cool to 4° C (R)

Special Instructions:

* The sample matrix for leachates supplied to the MN laboratory reflects the matrix of the original sample received by LEGEND AZ.

Released By (Print & Sign)	Date	Time	Received by (Print & Sign)	Date	Time
Aubree Jerome x AJ	8/5/13	1630	Fed Ex x	8/5/13	1630
x					
Released By (Print & Sign)	Date	Time	Received By (Print & Sign)	Date	Time

Page 1 of 1

Legend Technical Services of Arizona, Inc.

PO Number: 3080194
Sampled By: Sherry Fritz
Compliance?: Yes No

SUBCONTRACT ORDER
3080194

SENDING LABORATORY:
Legend Technical Services of Arizona, Inc.
17631 North 25th Avenue
Phoenix, AZ 85023
Phone: 602-324-6100
Fax: 602-324-6101
Project Manager: Cory Lund

RECEIVING LABORATORY:
Radiation Safety Engineering
3245 N. Washington
Chandler, AZ 85225
Phone :(480) 897-9459
Fax: (480) 892-5446

Analysis	Due	Expires	Sample Type (circle one)	Sample Comments
Sample ID: 3080194-01	Drinking W.	Sampled: 08/04/13 05:00	Grab Composite N/A	
Radium 228	08/14/13 09:00	01/31/14 05:00		
Radium 226	08/14/13 09:00	01/31/14 05:00		
Gross Alpha	08/14/13 09:00	08/14/13 05:00		

Containers Supplied:
06_1000mL Plastic pH <2 w/ HNO3 (C)
06_1000mL Plastic pH <2 w/ HNO3 (D)
06_1000mL Plastic pH <2 w/ HNO3 (E)
06_1000mL Plastic pH <2 w/ HNO3 (F)

Released By (Print & Sign)	Date	Time	Received By (Print & Sign)	Date	Time
Aubrea Jerome x [signature]	8/5/13	1300	KMcFarlin x [signature]		1300
KMcFarlin x [signature]	8/5/13	1409	[signature]	8/5/13	1409

Page 2 of 2

Legend Technical Services of Arizona, Inc.

PO Number: 3080194
Sampled By: Sherry Fritz
Compliance?: Yes No

SUBCONTRACT ORDER
3080194

SENDING LABORATORY:
Legend Technical Services of Arizona, Inc.
17631 North 25th Avenue
Phoenix, AZ 85023
Phone: 602-324-6100
Fax: 602-324-6101
Project Manager: Cory Lund

RECEIVING LABORATORY:
Fiberquant Analytical Services
5025 S. 33rd Street
Phoenix, AZ 85040
Phone :(602) 276-6139
Fax: (602) 276-4558

Analysis	Due	Expires	Sample Type (circle one)	Sample Comments
Sample ID: 3080194-01 Drinking W. Sampled: 08/04/13 05:00 Grab Composite N/A				
Asbestos	08/14/13 09:00	08/06/13 05:00		
Containers Supplied: 03_1000mL Plastic Cool to 4° C (T)				

Released By (Print & Sign)	Date	Time	Received By (Print & Sign)	Date	Time
Aubree Jerome x [signature]	8/5/13	1300pm	KMcfarlin x [signature]	8/5/13	1300
KMcfarlin x [signature]	8/5/13	1345	[signature]	8-5-13	1:55pm

Review of Analysis Request (Initials) [initials]

Page 1 of 2

Legend Technical Services of Arizona, Inc. **PO Number:** 3080194

SUBCONTRACT ORDER
3080194

SENDING LABORATORY:

Legend Technical Services of Arizona, Inc.
17631 North 25th Avenue
Phoenix, AZ 85023
Phone: 602-324-6100
Fax: 602-324-6101
Project Manager: Cory Lund

RECEIVING LABORATORY:

Underwriter's Laboratories
110 S. Hill Street
South Bend, IN 46617
Phone :(800) 332-4345
Fax: (574) 233-8207

Analysis	Due	Expires	Sample Type (circle one)	Sample Comments
Sample ID: 3080194-01	**Drinking W.**	**Sampled:08/04/13 05:00**	**Grab Composite N/A**	
549-Subcontract	08/14/13 09:00	08/11/13 05:00		
548-Subcontract	08/14/13 09:00	08/11/13 05:00		
525-Subcontract	08/14/13 09:00	08/18/13 05:00		
515-Subcontract	08/14/13 09:00	08/18/13 05:00		
504-Subcontract	08/14/13 09:00	08/18/13 05:00		

Containers Supplied:
11_125mL Amber Glass Bottle w/ Sodium Sulfite (H)
11_125mL Amber Glass Bottle w/ Sodium Sulfite (I)
20_500mL Amber Plastic w/ S.T. & H2SO4 (J)
07_1000mL Amber Glass pH <2 w/ SS & HCl (K)
07_1000mL Amber Glass pH <2 w/ SS & HCl (L)
10_40mL Sodium Thiosulfate Clear Vial Cool to 4° C (M)
10_40mL Sodium Thiosulfate Clear Vial Cool to 4° C (N)
10_40mL Sodium Thiosulfate Clear Vial Cool to 4° C (O)
10_40mL Sodium Thiosulfate Clear Vial Cool to 4° C (P)

Released By (Print & Sign)	Date	Time	Received By (Print & Sign)	Date	Time
Aubrea Jerome x [signature]	8/5/13	1630	Fed Ex x	8/5/13	1630
Fed Ex x					

Page 2 of 2

Legend Technical Services of Arizona, Inc.

PO Number: 3080194

SUBCONTRACT ORDER
3080194

SENDING LABORATORY:

Legend Technical Services of Arizona, Inc.
17631 North 25th Avenue
Phoenix, AZ 85023
Phone: 602-324-6100
Fax: 602-324-6101
Project Manager: Cory Lund

RECEIVING LABORATORY:

Pace Analytical Services
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone :(612) 607-1700
Fax: (612) 607-6444

Analysis	Due	Expires	Sample Type (circle one)	Sample Comments
Sample ID: 3080194-01 Drinking W Sampled:08/04/13 05:00 Grab Composite N/A				
1613-Subcontract	08/14/13 09:00	11/02/13 05:00		

Containers Supplied:
02_1000mL Amber Glass Cool to 4° C (A)
02_1000mL Amber Glass Cool to 4° C (B)

Released By (Print & Sign)	Date	Time	Received By (Print & Sign)	Date	Time
Adaree Jerome X [signature]	8/6/13	1630	Fed Ex X	8/6/13	1630
Fed Ex X					

Page 1 of 2

Copy of the laboratory water quality results
from the zonal sampling of the pilot borehole
Zone 2,045 to 2,066 (Zone Z2,056)
HAMP Well No. 2, Hopi Tribe

LEGEND
Technical Services, Inc.
www.legend-group.com

17631 North 25th Avenue • Phoenix, AZ 85023
P (602) 324-6100 • F (602) 324-6101

09 September 2013

Yellow Jacket Drilling Svcs.
Valued Client
POB 801
Gilbert, Arizona 85299-0801

RE: New source

Laboratory Work Order No.: 3072448

Legend Technical Services of Arizona, Inc. is pleased to provide the enclosed analytical results for the aforementioned project. These results relate only to the items tested. This cover letter and the accompanying pages represent the full report for these analyses and should only be reproduced in full. Samples for this project were received by the laboratory on 07/29/13 10:10.

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

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

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

Sincerely,
LEGEND TECHNICAL SERVICES OF ARIZONA, INC.

Cory Lund
Client Services Representative
(602) 324-6100

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

ED_005149_00023261-00215

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Type	Date Sampled	Date Received
Hamp Well #2 (Zone Z2, 056)	3072448-01	Drinking Water	Grab	07/28/13 11:00	07/29/13 10:10

Sample Condition Upon Receipt:

Temperature: 2.00 C

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

Case Narrative:

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

QA/QC Criteria: All analyses met method requirements unless otherwise qualified.

Certifications: AZ(PHX)0004, AZ(TUC)OOO4, AIHA#102982, CDC ELITE Member.

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

Comments: There were no problems encountered during the processing of the samples, unless otherwise noted. All samples were analyzed on a "wet" basis unless designated as "dry weight".

Sample was turbid, resulting in apparent color. In order to record the color, the sample was centrifuged at 4500 rpm for 10 minutes. This resulted in a pellet at the bottom of the sample. The supernatant was poured off and the true color was taken from this portion of the sample. 7/31/13 CL

This report contains data that were produced by a subcontracted laboratory certified for the fields of testing performed.

Underwriter's Laboratories AZ0432
Jim Van Fleit
574.472-5535

Pace Analytical AZ0014
Emily Hazelroth
612.607.6407

Legend Technical Services, St. Paul AZ0557
Bach Pham
651.221.4062

Radiation Safety AZ0462
Pierre Pouquette
480.897.9459

Fiberquant AZ0633
Karen Grant 602.276.6131
Kathy Townsend 602.276.6139

Valued Client	Project: New source	
POB 801	Project Number: HAMP 13-0111 AZ	**Reported:**
Gilbert, Arizona 85299-0801	Project Manager: Yellow Jacket Drilling Svcs.	09/09/13 15:00

Hamp Well #2 (Zone Z2, 056) (3072448-01) Drinking Water (Grab) Sampled: 07/28/13 11:00 Received: 07/29/13 10:10

UL#AZ0432

Analyte	Result	PQL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EPA 504.1									
1,2-Dibromo-3-chloropropane (D	<0.00002	0.00002	mg/L	1.02	182302	08/01/13 00:00	08/02/13 00:00	EPA 504.1	
1,2-Dibromoethane (EDB)	<0.00001	0.00001	mg/L	1.02	182302	08/01/13 00:00	08/02/13 00:00	EPA 504.1	
EPA 515.3									
2,4,5-TP (Silvex)	<0.0002	0.0002	mg/L	1	182296	08/02/13 00:00	08/02/13 00:00	EPA 515.3	
2,4-D	<0.0001	0.0001	mg/L	1	182296	08/02/13 00:00	08/02/13 00:00	EPA 515.3	
Dalapon	<0.0010	0.0010	mg/L	1	182296	08/02/13 00:00	08/02/13 00:00	EPA 515.3	
Dicamba	<0.0001	0.0001	mg/L	1	182296	08/02/13 00:00	08/02/13 00:00	EPA 515.3	
Dinoseb	<0.0002	0.0002	mg/L	1	182296	08/02/13 00:00	08/02/13 00:00	EPA 515.3	
Pentachlorophenol	<0.00004	0.00004	mg/L	1	182296	08/02/13 00:00	08/02/13 00:00	EPA 515.3	
Picloram	<0.0001	0.0001	mg/L	1	182296	08/02/13 00:00	08/02/13 00:00	EPA 515.3	
Surrogate: SS-2,4-Dichlorophenylacetic acid		*106 %*		*70-130*	*182296*	*08/02/13*	*08/02/13*	*EPA 515.3*	
EPA 525.2									
Alachlor	<0.0002	0.0002	mg/L	1.12	182324	08/01/13 00:00	08/02/13 00:00	EPA 525.2	S6, S11
Aldrin	<0.0001	0.0001	mg/L	1.12	182324	08/01/13 00:00	08/02/13 00:00	EPA 525.2	S6, S11
Atrazine	<0.0001	0.0001	mg/L	1.12	182324	08/01/13 00:00	08/02/13 00:00	EPA 525.2	S6, S11
Benzo(a)pyrene	<0.00002	0.00002	mg/L	1.12	182324	08/01/13 00:00	08/02/13 00:00	EPA 525.2	S6, S11, E7
Butachlor	<0.0001	0.0001	mg/L	1.12	182324	08/01/13 00:00	08/02/13 00:00	EPA 525.2	S6, S11, E7
Di(2-ethylhexyl)adipate	**0.0034**	0.0007	mg/L	1.12	182324	08/01/13 00:00	08/02/13 00:00	EPA 525.2	S6, S11, E7
Di(2-ethylhexyl)phthalate	**0.0056**	0.0007	mg/L	1.12	182324	08/01/13 00:00	08/02/13 00:00	EPA 525.2	S6, S11, E7
Dieldrin	<0.0001	0.0001	mg/L	1.12	182324	08/01/13 00:00	08/02/13 00:00	EPA 525.2	S6, S11, E7
Endrin	<0.00001	0.00001	mg/L	1.12	182324	08/01/13 00:00	08/02/13 00:00	EPA 525.2	S6, S11, E7
gamma-BHC (Lindane)	<0.00002	0.00002	mg/L	1.12	182324	08/01/13 00:00	08/02/13 00:00	EPA 525.2	S6, S11
Heptachlor	<0.00004	0.00004	mg/L	1.12	182324	08/01/13 00:00	08/02/13 00:00	EPA 525.2	S6, S11
Heptachlor epoxide	<0.00002	0.00002	mg/L	1.12	182324	08/01/13 00:00	08/02/13 00:00	EPA 525.2	S6, S11, E7
Hexachlorobenzene	<0.0001	0.0001	mg/L	1.12	182324	08/01/13 00:00	08/02/13 00:00	EPA 525.2	S6, S11
Hexachlorocyclopentadiene	<0.0001	0.0001	mg/L	1.12	182324	08/01/13 00:00	08/02/13 00:00	EPA 525.2	S6, S11
Methoxychlor	<0.0001	0.0001	mg/L	1.12	182324	08/01/13 00:00	08/02/13 00:00	EPA 525.2	S6, S11, E7
Metolachlor	<0.0001	0.0001	mg/L	1.12	182324	08/01/13 00:00	08/02/13 00:00	EPA 525.2	S6, S11
Metribuzin	<0.0001	0.0001	mg/L	1.12	182324	08/01/13 00:00	08/02/13 00:00	EPA 525.2	S6, S11
Propachlor	<0.0001	0.0001	mg/L	1.12	182324	08/01/13 00:00	08/02/13 00:00	EPA 525.2	S6, S11
Simazine	<0.00008	0.00008	mg/L	1.12	182324	08/01/13 00:00	08/02/13 00:00	EPA 525.2	S6, S11
Surrogate: SS-2,4,5,6-Tetrachloro-m-xylene		*56 %*		*70-130*	*182324*	*08/01/13*	*08/02/13*	*EPA 525.2*	*S6*
Surrogate: SS-4,4'-Dichlorobiphenyl		*78 %*		*70-130*	*182324*	*08/01/13*	*08/02/13*	*EPA 525.2*	
Surrogate: SS-Triphenylphosphate		*369 %*		*70-130*	*182324*	*08/01/13*	*08/02/13*	*EPA 525.2*	*S11*

Hamp Well #2 (Zone Z2, 056) (3072448-01) Drinking Water (Grab) Sampled: 07/28/13 11:00 Received: 07/29/13 10:10

Analyte	Result	PQL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
UL#AZ0432									
EPA 548.1									
Endothall	<0.0090	0.0090	mg/L	1	182263	07/31/13 00:00	08/01/13 00:00	EPA 548.1	
Surrogate: SS-2,4-Dichlorophenylacetic acid		*94 %*		*54-125*	*182263*	*07/31/13*	*08/01/13*	*EPA 548.1*	
EPA 549.2									
Diquat	<0.0004	0.0004	mg/L	1	182241	08/01/13 00:00	08/01/13 00:00	EPA 549.2	
Radiation Safety Engineering #AZ0462									
Calculation									
Combined Radium	<0.6		pCi/L	1	NA		08/01/13 00:00	Calculation	
EPA 600/00-02									
Gross Alpha Activity	**4.0 ± 1.0**		pCi/L	1	NA		07/31/13 00:00	EPA 600/00-02	
EPA 903.1									
Radium 226 Activity	<0.4		pCi/L	1	NA		08/01/13 00:00	EPA 903.1	
EPA 904.0									
Radium 228 Activity	<0.6		pCi/L	1	NA		08/01/13 00:00	EPA 904.0	
Pace Analytical Services, Inc.									
EPA-5 1613B-Tetras									
Dioxin	ND	0.0000000058	mg/L	1	13707	08/05/13 16:45	08/06/13 13:17	EPA-5 1613B-Tetras	
Surrogate: 13C-2,3,7,8-TCDD		*83 %*		*31-137*	*13707*	*08/05/13*	*08/06/13*	*EPA-5 1613B-Tetras*	
Legend Technical Services, Inc. #AZ0557									
PESTICIDES/PCBS 505									
Aroclor 1016	<0.000080	0.000080	mg/L	1	B3H0211	08/02/13 09:35	08/02/13 22:37	EPA 505	
Aroclor 1221	<0.020	0.020	mg/L	1	B3H0211	08/02/13 09:35	08/02/13 22:37	EPA 505	
Aroclor 1232	<0.00050	0.00050	mg/L	1	B3H0211	08/02/13 09:35	08/02/13 22:37	EPA 505	
Aroclor 1242	<0.00030	0.00030	mg/L	1	B3H0211	08/02/13 09:35	08/02/13 22:37	EPA 505	
Aroclor 1248	<0.00010	0.00010	mg/L	1	B3H0211	08/02/13 09:35	08/02/13 22:37	EPA 505	
Aroclor 1254	<0.00010	0.00010	mg/L	1	B3H0211	08/02/13 09:35	08/02/13 22:37	EPA 505	
Aroclor 1260	<0.00020	0.00020	mg/L	1	B3H0211	08/02/13 09:35	08/02/13 22:37	EPA 505	
Chlordane	<0.00020	0.00020	mg/L	1	B3H0211	08/02/13 09:35	08/02/13 22:37	EPA 505	
Toxaphene	<0.0010	0.0010	mg/L	1	B3H0211	08/02/13 09:35	08/02/13 22:37	EPA 505	
Surrogate: Decachlorobiphenyl		*71.2 %*		*66.7-131*	*B3H0211*	*08/02/13*	*08/02/13*	*EPA 505*	

Hamp Well #2 (Zone Z2, 056) (3072448-01) Drinking Water (Grab) Sampled: 07/28/13 11:00 Received: 07/29/13 10:10

Legend Technical Services of Arizona, Inc.

Analyte	Result	PQL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Microbiology									
E. coli	Present		P/A	1	B3G0899	07/29/13 16:30	07/29/13 16:30	SM 9223B	
Total Coliforms	Present		P/A	1	B3G0899	07/29/13 16:30	07/29/13 16:30	SM 9223B	
Total Metals									
Aluminum	**7.30**	2.00	mg/L	10	B3G0882	07/30/13 08:45	08/07/13 14:10	EPA 200.7	D1
Antimony	<0.0005	0.0005	mg/L	1	B3G0881	07/30/13 08:45	07/31/13 12:25	EPA 200.8	
Arsenic	**0.0046**	0.0010	mg/L	1	B3G0881	07/30/13 08:45	07/31/13 12:25	EPA 200.8	
Barium	**0.05**	0.01	mg/L	1	B3G0882	07/30/13 08:45	07/31/13 16:44	EPA 200.7	
Beryllium	<0.002	0.002	mg/L	1	B3G0882	07/30/13 08:45	07/31/13 16:44	EPA 200.7	
Cadmium	<0.0001	0.0001	mg/L	1	B3G0881	07/30/13 08:45	07/31/13 12:25	EPA 200.8	
Calcium	**8**	1	mg/L	1	B3G0882	07/30/13 08:45	07/31/13 16:44	EPA 200.7	
Chromium	**0.006**	0.005	mg/L	1	B3G0882	07/30/13 08:45	07/31/13 16:44	EPA 200.7	
Copper	<0.01	0.01	mg/L	1	B3G0882	07/30/13 08:45	07/31/13 16:44	EPA 200.7	
Iron	**3.02**	0.50	mg/L	10	B3G0882	07/30/13 08:45	08/07/13 14:10	EPA 200.7	D1
Lead	**0.0024**	0.0010	mg/L	1	B3G0881	07/30/13 08:45	07/31/13 12:25	EPA 200.8	
Magnesium	**1**	1	mg/L	1	B3G0882	07/30/13 08:45	07/31/13 16:44	EPA 200.7	
Manganese	**0.08**	0.02	mg/L	1	B3G0882	07/30/13 08:45	08/06/13 16:19	EPA 200.7	
Mercury	<0.0002	0.0002	mg/L	1	B3H0049	08/01/13 09:03	08/01/13 12:16	EPA 245.1	
Nickel	<0.02	0.02	mg/L	1	B3G0882	07/30/13 08:45	07/31/13 16:44	EPA 200.7	
Selenium	<0.0020	0.0020	mg/L	1	B3G0881	07/30/13 08:45	07/31/13 12:25	EPA 200.8	
Silica, Total	**70.3**	2.1	mg/L	10	[CALC]	07/30/13 08:45	08/07/13 14:10	EPA 200.7	
Silicon	**32.8**	1.0	mg/L	10	B3G0882	07/30/13 08:45	08/07/13 14:10	EPA 200.7	D1
Silver	<0.0001	0.0001	mg/L	1	B3G0881	07/30/13 08:45	07/31/13 12:25	EPA 200.8	
Sodium	**85**	1	mg/L	1	B3G0882	07/30/13 08:45	07/31/13 16:44	EPA 200.7	
Thallium	<0.0005	0.0005	mg/L	1	B3G0881	07/30/13 08:45	07/31/13 12:25	EPA 200.8	
Calcium Hardness as CaCO3	**21**	2	mg/L	1	[CALC]	07/30/13 08:45	07/31/13 16:44	SM2340B	
Magnesium Hardness as CaCO:	**5**	4	mg/L	1	[CALC]	07/30/13 08:45	07/31/13 16:44	SM2340B	
Total Hardness as CaCO3	**26**	4	mg/L	1	[CALC]	07/30/13 08:45	07/31/13 16:44	SM2340B	
Zinc	**0.02**	0.02	mg/L	1	B3G0882	07/30/13 08:45	08/06/13 16:19	EPA 200.7	

Hamp Well #2 (Zone Z2, 056) (3072448-01) Drinking Water (Grab) Sampled: 07/28/13 11:00 Received: 07/29/13 10:10

Legend Technical Services of Arizona, Inc.

Analyte	Result	PQL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Inorganic Chemistry									
Total Alkalinity as CaCO3	**165**	10	mg/L	1	B3H0204	08/07/13 15:45	08/07/13 15:45	SM 2320 B	
Chloride	**8.8**	5.0	mg/L	1	B3G0949	07/31/13 09:17	07/31/13 09:17	EPA 300.0	
Color	**30**	1	Color Units	1	B3G0861	07/29/13 12:30	07/29/13 12:30	SM 2120 B	N1
Cyanide, Total	<0.010	0.010	mg/L	1	B3H0029	08/01/13 10:00	08/01/13 14:30	SM 4500 CN E	
Fluoride	**0.18**	0.10	mg/L	1	B3G0922	07/30/13 14:20	07/30/13 14:20	SM 4500 F C	
Nitrate as N	**0.96**	0.20	mg/L	1	[CALC]	08/02/13 11:05	08/02/13 11:05	Calculation	
Nitrate + Nitrite as N	**0.96**	0.20	mg/L	1	B3H0060	08/02/13 11:05	08/02/13 11:05	SM 4500 NO3 F	
Nitrite as N	<0.10	0.10	mg/L	1	B3G0872	07/29/13 16:45	07/29/13 16:45	SM 4500 NO2 B	
Threshold Odor Number	<1	1	T.O.N.	1	B3G0860	07/29/13 12:30	07/29/13 12:30	EPA 140.1	
pH	**9.1**		pH Units	1	B3G0858	07/29/13 12:00	07/29/13 12:00	SM 4500H B	H5
Temperature	**17.1**		°C	1	B3G0858	07/29/13 12:00	07/29/13 12:00	pH Temperature	H5
Sulfate	**9.5**	5.0	mg/L	1	B3G0949	07/31/13 09:17	07/31/13 09:17	EPA 300.0	
Total Dissolved Solids	**264**	1	mg/L	1	B3H0078	08/04/13 10:00	08/04/13 10:00	SM 2540 C	
Total Organic Carbon	<1.00	1.00	mg/L	1	B3G0932	07/30/13 16:16	07/30/13 16:16	SM 5310 C	
Volatile Organic Compounds									
1,1,1-Trichloroethane	<0.0005	0.0005	mg/L	1	B3H0066	08/02/13 09:00	08/02/13 14:50	EPA 524.2	
1,1,2-Trichloroethane	<0.0005	0.0005	mg/L	1	B3H0066	08/02/13 09:00	08/02/13 14:50	EPA 524.2	
1,1-Dichloroethene	<0.0005	0.0005	mg/L	1	B3H0066	08/02/13 09:00	08/02/13 14:50	EPA 524.2	
1,2,4-Trichlorobenzene	<0.0005	0.0005	mg/L	1	B3H0066	08/02/13 09:00	08/02/13 14:50	EPA 524.2	
1,2-Dichlorobenzene	<0.0005	0.0005	mg/L	1	B3H0066	08/02/13 09:00	08/02/13 14:50	EPA 524.2	
1,2-Dichloroethane	<0.0005	0.0005	mg/L	1	B3H0066	08/02/13 09:00	08/02/13 14:50	EPA 524.2	
1,2-Dichloropropane	<0.0005	0.0005	mg/L	1	B3H0066	08/02/13 09:00	08/02/13 14:50	EPA 524.2	
1,4-Dichlorobenzene	<0.0005	0.0005	mg/L	1	B3H0066	08/02/13 09:00	08/02/13 14:50	EPA 524.2	
Benzene	<0.0005	0.0005	mg/L	1	B3H0066	08/02/13 09:00	08/02/13 14:50	EPA 524.2	
Bromodichloromethane	<0.0005	0.0005	mg/L	1	B3H0066	08/02/13 09:00	08/02/13 14:50	EPA 524.2	
Bromoform	<0.0005	0.0005	mg/L	1	B3H0066	08/02/13 09:00	08/02/13 14:50	EPA 524.2	
Carbon tetrachloride	<0.0005	0.0005	mg/L	1	B3H0066	08/02/13 09:00	08/02/13 14:50	EPA 524.2	
Chlorobenzene	<0.0005	0.0005	mg/L	1	B3H0066	08/02/13 09:00	08/02/13 14:50	EPA 524.2	
Chloroform	<0.0005	0.0005	mg/L	1	B3H0066	08/02/13 09:00	08/02/13 14:50	EPA 524.2	
cis-1,2-Dichloroethylene	<0.0005	0.0005	mg/L	1	B3H0066	08/02/13 09:00	08/02/13 14:50	EPA 524.2	
Dibromochloromethane	<0.0005	0.0005	mg/L	1	B3H0066	08/02/13 09:00	08/02/13 14:50	EPA 524.2	
Dichloromethane	<0.0005	0.0005	mg/L	1	B3H0066	08/02/13 09:00	08/02/13 14:50	EPA 524.2	
Ethylbenzene	<0.0005	0.0005	mg/L	1	B3H0066	08/02/13 09:00	08/02/13 14:50	EPA 524.2	
m,p-Xylene	<0.0005	0.0005	mg/L	1	B3H0066	08/02/13 09:00	08/02/13 14:50	EPA 524.2	
o-Xylene	<0.0005	0.0005	mg/L	1	B3H0066	08/02/13 09:00	08/02/13 14:50	EPA 524.2	
Styrene	<0.0005	0.0005	mg/L	1	B3H0066	08/02/13 09:00	08/02/13 14:50	EPA 524.2	
Tetrachloroethene	<0.0005	0.0005	mg/L	1	B3H0066	08/02/13 09:00	08/02/13 14:50	EPA 524.2	
Toluene	<0.0005	0.0005	mg/L	1	B3H0066	08/02/13 09:00	08/02/13 14:50	EPA 524.2	
Total THMs	<0.0005	0.0005	mg/L	1	B3H0066	08/02/13 09:00	08/02/13 14:50	EPA 524.2	
trans-1,2-Dichloroethene	<0.0005	0.0005	mg/L	1	B3H0066	08/02/13 09:00	08/02/13 14:50	EPA 524.2	
Trichloroethene	<0.0005	0.0005	mg/L	1	B3H0066	08/02/13 09:00	08/02/13 14:50	EPA 524.2	
Vinyl chloride	<0.0005	0.0005	mg/L	1	B3H0066	08/02/13 09:00	08/02/13 14:50	EPA 524.2	
Xylenes (total)	<0.0005	0.0005	mg/L	1	B3H0066	08/02/13 09:00	08/02/13 14:50	EPA 524.2	
Surrogate: 1,2-Dichlorobenzene-d4		*99 %*		*70-130*	*B3H0066*	*08/02/13*	*08/02/13*	*EPA 524.2*	

Hamp Well #2 (Zone Z2, 056) (3072448-01) Drinking Water (Grab) Sampled: 07/28/13 11:00 Received: 07/29/13 10:10

Analyte	Result	PQL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Legend Technical Services of Arizona, Inc.									
Volatile Organic Compounds									
Surrogate: 1,2-Dichloroethane-d4		*92 %*		*70-130*	*B3H0066*	*08/02/13*	*08/02/13*	*EPA 524.2*	
Surrogate: 4-Bromofluorobenzene		*85 %*		*70-130*	*B3H0066*	*08/02/13*	*08/02/13*	*EPA 524.2*	
Surrogate: Pentafluorobenzene		*102 %*		*70-130*	*B3H0066*	*08/02/13*	*08/02/13*	*EPA 524.2*	
Miscellaneous									
Langlier Index	**0.588**	-5.00	N/A	1	B3G0705	08/08/13 15:15	08/08/13 15:21	Miscellaneous	
Semi-Volatile Organic Compounds									
3-Hydroxycarbofuran	<0.0005	0.0005	mg/L	1	B3H0027	08/01/13 10:00	08/02/13 02:23	EPA 531.2	
Aldicarb	<0.0005	0.0005	mg/L	1	B3H0027	08/01/13 10:00	08/02/13 02:23	EPA 531.2	
Aldicarb sulfone	<0.0008	0.0008	mg/L	1	B3H0027	08/01/13 10:00	08/02/13 02:23	EPA 531.2	
Aldicarb sulfoxide	<0.0005	0.0005	mg/L	1	B3H0027	08/01/13 10:00	08/02/13 02:23	EPA 531.2	
Carbaryl	<0.0005	0.0005	mg/L	1	B3H0027	08/01/13 10:00	08/02/13 02:23	EPA 531.2	
Carbofuran	<0.0009	0.0009	mg/L	1	B3H0027	08/01/13 10:00	08/02/13 02:23	EPA 531.2	
Methomyl	<0.0005	0.0005	mg/L	1	B3H0027	08/01/13 10:00	08/02/13 02:23	EPA 531.2	
Oxamyl	<0.0020	0.0020	mg/L	1	B3H0027	08/01/13 10:00	08/02/13 02:23	EPA 531.2	
Surrogate: 4-Bromo-3,5-dimethylphenyl-N-methylcarbamate		*104 %*		*70-130*	*B3H0027*	*08/01/13*	*08/02/13*	*EPA 531.2*	
Herbicides									**D1**
Glyphosate	<0.060	0.060	mg/L	10	B3H0181	08/08/13 10:00	08/09/13 00:40	EPA 547	
Fiberquant Analytical Services #AZ0633									
EPA 100.1									
Asbestos	<9.7	9.7	MFL	1	N/A	07/30/13 00:00	07/31/13 00:00	EPA 100.1	

Microbiology - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3G0899 - micro_prep										
Blank (B3G0899-BLK1)				*Prepared & Analyzed: 07/29/13*						
E. coli	Absent		P/A							
Total Coliforms	Absent		P/A							

Total Metals - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3G0881 - EPA 200.8										
Blank (B3G0881-BLK1)				*Prepared: 07/30/13 Analyzed: 07/31/13*						
Antimony	<0.0005	0.0005	mg/L							
Arsenic	<0.0010	0.0010	mg/L							
Cadmium	<0.0001	0.0001	mg/L							
Lead	<0.0010	0.0010	mg/L							
Selenium	<0.0020	0.0020	mg/L							
Silver	<0.0001	0.0001	mg/L							
Thallium	<0.0005	0.0005	mg/L							
LCS (B3G0881-BS1)				*Prepared: 07/30/13 Analyzed: 07/31/13*						
Antimony	0.0272	0.0005	mg/L	0.0250		109	85-115			
Arsenic	0.0259	0.0010	mg/L	0.0250		104	85-115			
Cadmium	0.0262	0.0001	mg/L	0.0250		105	85-115			
Lead	0.0263	0.0010	mg/L	0.0250		105	85-115			
Selenium	0.0261	0.0020	mg/L	0.0250		105	85-115			
Silver	0.0255	0.0001	mg/L	0.0250		102	85-115			
Thallium	0.0253	0.0005	mg/L	0.0250		101	85-115			
Matrix Spike (B3G0881-MS1)		**Source: 3072448-01**		*Prepared: 07/30/13 Analyzed: 07/31/13*						
Antimony	0.0209	0.0005	mg/L	0.0250	0.0001	83	70-130			
Arsenic	0.0288	0.0010	mg/L	0.0250	0.0046	97	70-130			
Cadmium	0.0260	0.0001	mg/L	0.0250	0.00002	104	70-130			
Lead	0.0242	0.0010	mg/L	0.0250	0.0024	87	70-130			
Selenium	0.0242	0.0020	mg/L	0.0250	<0.0020	97	70-130			
Silver	0.0227	0.0001	mg/L	0.0250	0.00003	91	70-130			
Thallium	0.0263	0.0005	mg/L	0.0250	0.00005	105	70-130			
Matrix Spike Dup (B3G0881-MSD1)		**Source: 3072448-01**		*Prepared: 07/30/13 Analyzed: 07/31/13*						
Antimony	0.0212	0.0005	mg/L	0.0250	0.0001	85	70-130	2	20	
Arsenic	0.0287	0.0010	mg/L	0.0250	0.0046	97	70-130	0.08	20	
Cadmium	0.0263	0.0001	mg/L	0.0250	0.00002	105	70-130	1	20	
Lead	0.0240	0.0010	mg/L	0.0250	0.0024	86	70-130	1	20	
Selenium	0.0243	0.0020	mg/L	0.0250	<0.0020	97	70-130	0.7	20	
Silver	0.0228	0.0001	mg/L	0.0250	0.00003	91	70-130	0.2	20	
Thallium	0.0266	0.0005	mg/L	0.0250	0.00005	106	70-130	1	20	

Total Metals - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3G0882 - EPA 200.7										
Blank (B3G0882-BLK1)				*Prepared: 07/30/13 Analyzed: 08/07/13*						
Aluminum	<0.20	0.20	mg/L							
Barium	<0.01	0.01	mg/L							
Beryllium	<0.002	0.002	mg/L							
Calcium	<1	1	mg/L							
Chromium	<0.005	0.005	mg/L							
Copper	<0.01	0.01	mg/L							
Iron	<0.05	0.05	mg/L							
Magnesium	<1	1	mg/L							
Manganese	<0.02	0.02	mg/L							
Nickel	<0.02	0.02	mg/L							
Silicon	<0.1	0.1	mg/L							
Sodium	<1	1	mg/L							
Zinc	<0.02	0.02	mg/L							
LCS (B3G0882-BS1)				*Prepared: 07/30/13 Analyzed: 08/07/13*						
Aluminum	1.98	0.20	mg/L	2.00		99	85-115			
Barium	0.95	0.01	mg/L	1.00		95	85-115			
Beryllium	0.193	0.002	mg/L	0.200		96	85-115			
Calcium	19	1	mg/L	20.0		97	85-115			
Chromium	0.487	0.005	mg/L	0.500		97	85-115			
Copper	0.94	0.01	mg/L	1.00		94	85-115			
Iron	0.98	0.05	mg/L	1.00		98	85-115			
Magnesium	19	1	mg/L	20.0		93	85-115			
Manganese	0.99	0.02	mg/L	1.00		99	85-115			
Nickel	0.96	0.02	mg/L	1.00		96	85-115			
Silicon	4.0	0.1	mg/L	4.00		100	85-115			
Sodium	19	1	mg/L	20.0		95	85-115			
Zinc	0.97	0.02	mg/L	1.00		97	85-115			

Total Metals - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3G0882 - EPA 200.7										
Matrix Spike (B3G0882-MS1)		**Source: 3072448-01**		*Prepared: 07/30/13 Analyzed: 07/31/13*						
Barium	0.99	0.01	mg/L	1.00	0.05	94	70-130			
Beryllium	0.195	0.002	mg/L	0.200	<0.002	98	70-130			
Calcium	28	1	mg/L	20.0	8	99	70-130			
Chromium	0.502	0.005	mg/L	0.500	0.006	99	70-130			
Copper	0.97	0.01	mg/L	1.00	0.004	97	70-130			
Magnesium	21	1	mg/L	20.0	1	98	70-130			
Manganese	1.06	0.02	mg/L	1.00	0.08	98	70-130			
Nickel	0.97	0.02	mg/L	1.00	0.003	97	75-125			
Sodium	105	1	mg/L	20.0	85	100	70-130			
Zinc	0.97	0.02	mg/L	1.00	0.02	94	70-130			
Matrix Spike (B3G0882-MS2)		**Source: 3072448-01**		*Prepared: 07/30/13 Analyzed: 08/07/13*						
Aluminum	26.3	2.00	mg/L	20.0	7.30	95	70-130			
Iron	12.5	0.50	mg/L	10.0	3.02	94	70-130			
Silicon	71.7	1.0	mg/L	40.0	32.8	97	70-130			
Matrix Spike Dup (B3G0882-MSD1)		**Source: 3072448-01**		*Prepared: 07/30/13 Analyzed: 07/31/13*						
Barium	0.97	0.01	mg/L	1.00	0.05	93	70-130	1	20	
Beryllium	0.193	0.002	mg/L	0.200	<0.002	97	70-130	1	20	
Calcium	28	1	mg/L	20.0	8	98	70-130	0.7	20	
Chromium	0.497	0.005	mg/L	0.500	0.006	98	70-130	1	20	
Copper	0.96	0.01	mg/L	1.00	0.004	95	70-130	1	20	
Magnesium	21	1	mg/L	20.0	1	97	70-130	1	20	
Manganese	1.06	0.02	mg/L	1.00	0.08	98	70-130	0.2	20	
Nickel	0.96	0.02	mg/L	1.00	0.003	95	75-125	1	20	
Sodium	104	1	mg/L	20.0	85	99	70-130	0.3	20	
Zinc	0.97	0.02	mg/L	1.00	0.02	95	70-130	0.5	20	

Total Metals - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3G0882 - EPA 200.7										
Matrix Spike Dup (B3G0882-MSD2)		**Source: 3072448-01**		*Prepared: 07/30/13 Analyzed: 08/07/13*						
Aluminum	26.3	2.00	mg/L	20.0	7.30	95	70-130	0.1	20	
Iron	12.6	0.50	mg/L	10.0	3.02	96	70-130	1	20	
Silicon	71.7	1.0	mg/L	40.0	32.8	97	70-130	0.07	20	
Batch B3H0049 - EPA 245.1/245.2 Prep										
Blank (B3H0049-BLK1)				*Prepared & Analyzed: 08/01/13*						
Mercury	<0.0002	0.0002	mg/L							
LCS (B3H0049-BS1)				*Prepared & Analyzed: 08/01/13*						
Mercury	0.00101	0.0002	mg/L	0.00100		101	85-115			
Matrix Spike (B3H0049-MS1)		**Source: 3072360-02**		*Prepared & Analyzed: 08/01/13*						
Mercury	0.00102	0.0002	mg/L	0.00100	<0.0002	102	70-130			
Matrix Spike (B3H0049-MS2)		**Source: 3072463-01**		*Prepared & Analyzed: 08/01/13*						
Mercury	0.00102	0.0002	mg/L	0.00100	<0.0002	102	70-130			
Matrix Spike Dup (B3H0049-MSD1)		**Source: 3072360-02**		*Prepared & Analyzed: 08/01/13*						
Mercury	0.00101	0.0002	mg/L	0.00100	<0.0002	101	70-130	1	20	
Matrix Spike Dup (B3H0049-MSD2)		**Source: 3072463-01**		*Prepared & Analyzed: 08/01/13*						
Mercury	0.00102	0.0002	mg/L	0.00100	<0.0002	102	70-130	0	20	

Inorganic Chemistry - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3G0858 - NO PREP										
Duplicate (B3G0858-DUP1)		**Source: 3072452-01**		*Prepared & Analyzed: 07/29/13*						
pH	7.1		pH Units		7.1			0.7	10	
Batch B3G0861 - NO PREP										
Duplicate (B3G0861-DUP1)		**Source: 3072448-01**		*Prepared & Analyzed: 07/29/13*						
Color	30	1	Color Units		30			0	20	
Batch B3G0872 - NO PREP										
Blank (B3G0872-BLK1)				*Prepared & Analyzed: 07/29/13*						
Nitrite as N	<0.10	0.10	mg/L							
LCS (B3G0872-BS1)				*Prepared & Analyzed: 07/29/13*						
Nitrite as N	0.200	0.10	mg/L	0.200		100	80-120			
LCS Dup (B3G0872-BSD1)				*Prepared & Analyzed: 07/29/13*						
Nitrite as N	0.200	0.10	mg/L	0.200		100	80-120	0	20	
Matrix Spike (B3G0872-MS1)		**Source: 3072501-01**		*Prepared & Analyzed: 07/29/13*						
Nitrite as N	0.147	0.10	mg/L	0.200	0.009	69	80-120			M2
Matrix Spike Dup (B3G0872-MSD1)		**Source: 3072501-01**		*Prepared & Analyzed: 07/29/13*						
Nitrite as N	0.146	0.10	mg/L	0.200	0.009	68	80-120	0.7	20	M2
Batch B3G0922 - NO PREP										
Blank (B3G0922-BLK1)				*Prepared & Analyzed: 07/30/13*						
Fluoride	<0.10	0.10	mg/L							

Inorganic Chemistry - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3G0922 - NO PREP										
LCS (B3G0922-BS1)				*Prepared & Analyzed: 07/30/13*						
Fluoride	1.99	0.10	mg/L	2.00		100	90-110			
LCS Dup (B3G0922-BSD1)				*Prepared & Analyzed: 07/30/13*						
Fluoride	1.98	0.10	mg/L	2.00		99	90-110	0.5	20	
Matrix Spike (B3G0922-MS1)		**Source: 3071994-01**		*Prepared & Analyzed: 07/30/13*						
Fluoride	2.43	0.10	mg/L	2.00	0.46	99	90-110			
Matrix Spike Dup (B3G0922-MSD1)		**Source: 3071994-01**		*Prepared & Analyzed: 07/30/13*						
Fluoride	2.44	0.10	mg/L	2.00	0.46	99	90-110	0.6	20	
Batch B3G0932 - NO PREP										
Blank (B3G0932-BLK1)				*Prepared & Analyzed: 07/30/13*						
Total Organic Carbon	<1.00	1.00	mg/L							
LCS (B3G0932-BS1)				*Prepared & Analyzed: 07/30/13*						
Total Organic Carbon	10.2	1.00	mg/L	10.0		102	80-120			
LCS Dup (B3G0932-BSD1)				*Prepared & Analyzed: 07/30/13*						
Total Organic Carbon	10.2	1.00	mg/L	10.0		102	80-120	0	20	
Matrix Spike (B3G0932-MS1)		**Source: 3072189-01**		*Prepared & Analyzed: 07/30/13*						
Total Organic Carbon	12.3	1.00	mg/L	10.0	2.09	102	80-120			
Matrix Spike Dup (B3G0932-MSD1)		**Source: 3072189-01**		*Prepared & Analyzed: 07/30/13*						
Total Organic Carbon	12.3	1.00	mg/L	10.0	2.09	102	80-120	0	20	

Inorganic Chemistry - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3G0949 - NO PREP										
Blank (B3G0949-BLK1)				*Prepared & Analyzed: 07/31/13*						
Chloride	<5.0	5.0	mg/L							
Sulfate	<5.0	5.0	mg/L							
Blank (B3G0949-BLK2)				*Prepared & Analyzed: 07/31/13*						
Chloride	<5.0	5.0	mg/L							
Sulfate	<5.0	5.0	mg/L							
LCS (B3G0949-BS1)				*Prepared & Analyzed: 07/31/13*						
Chloride	10.0	5.0	mg/L	10.0		100	90-110			
Sulfate	19.6	5.0	mg/L	20.0		98	90-110			
LCS Dup (B3G0949-BSD1)				*Prepared & Analyzed: 07/31/13*						
Chloride	10.0	5.0	mg/L	10.0		100	90-110	0.2	20	
Sulfate	19.9	5.0	mg/L	20.0		100	90-110	2	20	
Matrix Spike (B3G0949-MS1)		**Source: 3072249-01**		*Prepared & Analyzed: 07/31/13*						
Chloride	15.1	5.0	mg/L	10.0	5.1	100	90-110			
Sulfate	19.6	5.0	mg/L	20.0	<5.0	98	90-110			
Matrix Spike (B3G0949-MS2)		**Source: 3072352-01**		*Prepared & Analyzed: 07/31/13*						
Chloride	33.8	5.0	mg/L	10.0	24.5	93	90-110			
Sulfate	34.0	5.0	mg/L	20.0	14.1	100	90-110			
Matrix Spike Dup (B3G0949-MSD1)		**Source: 3072249-01**		*Prepared & Analyzed: 07/31/13*						
Chloride	15.0	5.0	mg/L	10.0	5.1	99	90-110	0.7	20	
Sulfate	19.8	5.0	mg/L	20.0	<5.0	99	90-110	1	20	
Matrix Spike Dup (B3G0949-MSD2)		**Source: 3072352-01**		*Prepared & Analyzed: 07/31/13*						
Chloride	34.0	5.0	mg/L	10.0	24.5	95	90-110	0.6	20	
Sulfate	35.3	5.0	mg/L	20.0	14.1	106	90-110	4	20	

Inorganic Chemistry - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H0029 - NO PREP										
Blank (B3H0029-BLK1)				*Prepared & Analyzed: 08/01/13*						
Cyanide, Total	<0.010	0.010	mg/L							
LCS (B3H0029-BS1)				*Prepared & Analyzed: 08/01/13*						
Cyanide, Total	0.053	0.010	mg/L	0.0500		106	80-120			
LCS Dup (B3H0029-BSD1)				*Prepared & Analyzed: 08/01/13*						
Cyanide, Total	0.053	0.010	mg/L	0.0500		106	80-120	0	20	
Matrix Spike (B3H0029-MS1)		**Source: 3072329-01**		*Prepared & Analyzed: 08/01/13*						
Cyanide, Total	0.054	0.010	mg/L	0.0500	<0.010	108	80-120			
Matrix Spike Dup (B3H0029-MSD1)		**Source: 3072329-01**		*Prepared & Analyzed: 08/01/13*						
Cyanide, Total	0.053	0.010	mg/L	0.0500	<0.010	106	80-120	2	20	
Batch B3H0060 - NO PREP										
Blank (B3H0060-BLK1)				*Prepared & Analyzed: 08/02/13*						
Nitrate + Nitrite as N	<0.20	0.20	mg/L							
Blank (B3H0060-BLK2)				*Prepared & Analyzed: 08/02/13*						
Nitrate + Nitrite as N	<0.20	0.20	mg/L							
Blank (B3H0060-BLK3)				*Prepared & Analyzed: 08/02/13*						
Nitrate + Nitrite as N	<0.20	0.20	mg/L							
Blank (B3H0060-BLK4)				*Prepared & Analyzed: 08/02/13*						
Nitrate + Nitrite as N	<0.20	0.20	mg/L							

Inorganic Chemistry - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H0060 - NO PREP										
Blank (B3H0060-BLK5)				*Prepared & Analyzed: 08/02/13*						
Nitrate + Nitrite as N	<0.20	0.20	mg/L							
LCS (B3H0060-BS1)				*Prepared & Analyzed: 08/02/13*						
Nitrate + Nitrite as N	10.3	0.20	mg/L	10.0		103	90-110			
LCS (B3H0060-BS2)				*Prepared & Analyzed: 08/02/13*						
Nitrate + Nitrite as N	10.2	0.20	mg/L	10.0		102	90-110			
LCS (B3H0060-BS3)				*Prepared & Analyzed: 08/02/13*						
Nitrate + Nitrite as N	10.4	0.20	mg/L	10.0		104	90-110			
LCS Dup (B3H0060-BSD1)				*Prepared & Analyzed: 08/02/13*						
Nitrate + Nitrite as N	10.3	0.20	mg/L	10.0		103	90-110	0	20	
LCS Dup (B3H0060-BSD2)				*Prepared & Analyzed: 08/02/13*						
Nitrate + Nitrite as N	10.2	0.20	mg/L	10.0		102	90-110	0	20	
LCS Dup (B3H0060-BSD3)				*Prepared & Analyzed: 08/02/13*						
Nitrate + Nitrite as N	10.3	0.20	mg/L	10.0		103	90-110	1	20	
Matrix Spike (B3H0060-MS1)		**Source: 3072300-01**		*Prepared & Analyzed: 08/02/13*						
Nitrate + Nitrite as N	10.6	0.20	mg/L	10.0	0.32	103	80-120			
Matrix Spike (B3H0060-MS2)		**Source: 3072352-01**		*Prepared & Analyzed: 08/02/13*						
Nitrate + Nitrite as N	12.9	0.20	mg/L	10.0	2.47	104	80-120			
Matrix Spike (B3H0060-MS3)		**Source: 3072527-06**		*Prepared & Analyzed: 08/02/13*						
Nitrate + Nitrite as N	17.8	0.20	mg/L	10.0	7.11	107	80-120			

Inorganic Chemistry - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H0060 - NO PREP										
Matrix Spike (B3H0060-MS4)		**Source: 3072607-01**		*Prepared & Analyzed: 08/02/13*						
Nitrate + Nitrite as N	15.1	0.20	mg/L	10.0	4.56	105	80-120			
Matrix Spike (B3H0060-MS5)		**Source: 3072644-01**		*Prepared & Analyzed: 08/02/13*						
Nitrate + Nitrite as N	12.4	0.20	mg/L	10.0	2.22	102	80-120			
Matrix Spike Dup (B3H0060-MSD1)		**Source: 3072300-01**		*Prepared & Analyzed: 08/02/13*						
Nitrate + Nitrite as N	11.1	0.20	mg/L	10.0	0.32	108	80-120	5	20	
Matrix Spike Dup (B3H0060-MSD2)		**Source: 3072352-01**		*Prepared & Analyzed: 08/02/13*						
Nitrate + Nitrite as N	13.2	0.20	mg/L	10.0	2.47	107	80-120	2	20	
Matrix Spike Dup (B3H0060-MSD3)		**Source: 3072527-06**		*Prepared & Analyzed: 08/02/13*						
Nitrate + Nitrite as N	18.0	0.20	mg/L	10.0	7.11	109	80-120	1	20	
Matrix Spike Dup (B3H0060-MSD4)		**Source: 3072607-01**		*Prepared & Analyzed: 08/02/13*						
Nitrate + Nitrite as N	15.4	0.20	mg/L	10.0	4.56	108	80-120	2	20	
Matrix Spike Dup (B3H0060-MSD5)		**Source: 3072644-01**		*Prepared & Analyzed: 08/02/13*						
Nitrate + Nitrite as N	12.8	0.20	mg/L	10.0	2.22	106	80-120	3	20	
Batch B3H0078 - NO PREP										
Blank (B3H0078-BLK1)				*Prepared & Analyzed: 08/04/13*						
Total Dissolved Solids	<1	1	mg/L							
Duplicate (B3H0078-DUP1)		**Source: 3072607-01**		*Prepared & Analyzed: 08/04/13*						
Total Dissolved Solids	316	1	mg/L		308			3	5	

Inorganic Chemistry - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H0078 - NO PREP										
Duplicate (B3H0078-DUP2)		**Source: 3072626-03**		*Prepared & Analyzed: 08/04/13*						
Total Dissolved Solids	320	1	mg/L		318			0.6	5	
Batch B3H0204 - NO PREP										
Blank (B3H0204-BLK1)				*Prepared & Analyzed: 08/07/13*						
Total Alkalinity as CaCO3	<10	10	mg/L							
LCS (B3H0204-BS1)				*Prepared & Analyzed: 08/07/13*						
Total Alkalinity as CaCO3	196	10	mg/L	200		98	80-120			
LCS Dup (B3H0204-BSD1)				*Prepared & Analyzed: 08/07/13*						
Total Alkalinity as CaCO3	196	10	mg/L	200		98	80-120	0.2	20	
Matrix Spike (B3H0204-MS1)		**Source: 3072448-01**		*Prepared & Analyzed: 08/07/13*						
Total Alkalinity as CaCO3	357	10	mg/L	200	165	96	80-120			
Matrix Spike Dup (B3H0204-MSD1)		**Source: 3072448-01**		*Prepared & Analyzed: 08/07/13*						
Total Alkalinity as CaCO3	356	10	mg/L	200	165	96	80-120	0.1	20	

Volatile Organic Compounds - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H0066 - Default Prep VOC										
Blank (B3H0066-BLK1)				*Prepared & Analyzed: 08/02/13*						
1,1,1-Trichloroethane	<0.0005	0.0005	mg/L							
1,1,2-Trichloroethane	<0.0005	0.0005	mg/L							
1,1-Dichloroethene	<0.0005	0.0005	mg/L							
1,2,4-Trichlorobenzene	<0.0005	0.0005	mg/L							
1,2-Dichlorobenzene	<0.0005	0.0005	mg/L							
1,2-Dichloroethane	<0.0005	0.0005	mg/L							
1,2-Dichloropropane	<0.0005	0.0005	mg/L							
1,4-Dichlorobenzene	<0.0005	0.0005	mg/L							
Benzene	<0.0005	0.0005	mg/L							
Bromodichloromethane	<0.0005	0.0005	mg/L							
Bromoform	<0.0005	0.0005	mg/L							
Carbon tetrachloride	<0.0005	0.0005	mg/L							
Chlorobenzene	<0.0005	0.0005	mg/L							
Chloroform	<0.0005	0.0005	mg/L							
cis-1,2-Dichloroethylene	<0.0005	0.0005	mg/L							
Dibromochloromethane	<0.0005	0.0005	mg/L							
Dichloromethane	<0.0005	0.0005	mg/L							
Ethylbenzene	<0.0005	0.0005	mg/L							
m,p-Xylene	<0.0005	0.0005	mg/L							
o-Xylene	<0.0005	0.0005	mg/L							
Styrene	<0.0005	0.0005	mg/L							
Tetrachloroethene	<0.0005	0.0005	mg/L							
Toluene	<0.0005	0.0005	mg/L							
Total THMs	<0.0005	0.0005	mg/L							
trans-1,2-Dichloroethene	<0.0005	0.0005	mg/L							
Trichloroethene	<0.0005	0.0005	mg/L							
Vinyl chloride	<0.0005	0.0005	mg/L							
Xylenes (total)	<0.0005	0.0005	mg/L							

Volatile Organic Compounds - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H0066 - Default Prep VOC										
LCS (B3H0066-BS1)				*Prepared & Analyzed: 08/02/13*						
1,1,1-Trichloroethane	0.0019	0.0005	mg/L	0.00200		94	70-130			
1,1,2-Trichloroethane	0.0019	0.0005	mg/L	0.00200		94	70-130			
1,1-Dichloroethene	0.0019	0.0005	mg/L	0.00200		96	70-130			
1,2,4-Trichlorobenzene	0.0019	0.0005	mg/L	0.00200		97	70-130			
1,2-Dichlorobenzene	0.0019	0.0005	mg/L	0.00200		95	70-130			
1,2-Dichloroethane	0.0018	0.0005	mg/L	0.00200		91	70-130			
1,2-Dichloropropane	0.0018	0.0005	mg/L	0.00200		88	70-130			
1,4-Dichlorobenzene	0.0019	0.0005	mg/L	0.00200		95	70-130			
Benzene	0.0018	0.0005	mg/L	0.00200		92	70-130			
Bromodichloromethane	0.0019	0.0005	mg/L	0.00200		93	70-130			
Bromoform	0.0019	0.0005	mg/L	0.00200		95	70-130			
Carbon tetrachloride	0.0020	0.0005	mg/L	0.00200		100	70-130			
Chlorobenzene	0.0018	0.0005	mg/L	0.00200		92	70-130			
Chloroform	0.0018	0.0005	mg/L	0.00200		92	70-130			
cis-1,2-Dichloroethylene	0.0018	0.0005	mg/L	0.00200		91	70-130			
Dibromochloromethane	0.0019	0.0005	mg/L	0.00200		95	70-130			
Dichloromethane	0.0019	0.0005	mg/L	0.00200		94	70-130			
Ethylbenzene	0.0018	0.0005	mg/L	0.00200		91	70-130			
m,p-Xylene	0.0035	0.0005	mg/L	0.00400		88	70-130			
o-Xylene	0.0017	0.0005	mg/L	0.00200		86	70-130			
Styrene	0.0017	0.0005	mg/L	0.00200		87	70-130			
Tetrachloroethene	0.0020	0.0005	mg/L	0.00200		100	70-130			
Toluene	0.0018	0.0005	mg/L	0.00200		88	70-130			
Total THMs	0.0075	0.0005	mg/L	0.00800		94	0-200			
trans-1,2-Dichloroethene	0.0018	0.0005	mg/L	0.00200		91	70-130			
Trichloroethene	0.0018	0.0005	mg/L	0.00200		91	70-130			
Vinyl chloride	0.0020	0.0005	mg/L	0.00200		98	70-130			
Xylenes (total)	0.0052	0.0005	mg/L	0.00600		87	0-200			

Volatile Organic Compounds - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H0066 - Default Prep VOC										
LCS Dup (B3H0066-BSD1)				*Prepared & Analyzed: 08/02/13*						
1,1,1-Trichloroethane	0.0020	0.0005	mg/L	0.00200		100	70-130	6	20	
1,1,2-Trichloroethane	0.0020	0.0005	mg/L	0.00200		100	70-130	6	20	
1,1-Dichloroethene	0.0022	0.0005	mg/L	0.00200		109	70-130	13	20	
1,2,4-Trichlorobenzene	0.0018	0.0005	mg/L	0.00200		92	70-130	5	20	
1,2-Dichlorobenzene	0.0020	0.0005	mg/L	0.00200		100	70-130	5	20	
1,2-Dichloroethane	0.0020	0.0005	mg/L	0.00200		100	70-130	9	20	
1,2-Dichloropropane	0.0019	0.0005	mg/L	0.00200		97	70-130	9	20	
1,4-Dichlorobenzene	0.0019	0.0005	mg/L	0.00200		95	70-130	0	20	
Benzene	0.0019	0.0005	mg/L	0.00200		97	70-130	5	20	
Bromodichloromethane	0.0019	0.0005	mg/L	0.00200		95	70-130	2	20	
Bromoform	0.0019	0.0005	mg/L	0.00200		94	70-130	1	20	
Carbon tetrachloride	0.0021	0.0005	mg/L	0.00200		107	70-130	7	20	
Chlorobenzene	0.0019	0.0005	mg/L	0.00200		94	70-130	3	20	
Chloroform	0.0020	0.0005	mg/L	0.00200		102	70-130	10	20	
cis-1,2-Dichloroethylene	0.0021	0.0005	mg/L	0.00200		106	70-130	14	20	
Dibromochloromethane	0.0020	0.0005	mg/L	0.00200		102	70-130	7	20	
Dichloromethane	0.0022	0.0005	mg/L	0.00200		108	70-130	14	20	
Ethylbenzene	0.0017	0.0005	mg/L	0.00200		85	70-130	7	20	
m,p-Xylene	0.0034	0.0005	mg/L	0.00400		84	70-130	4	20	
o-Xylene	0.0017	0.0005	mg/L	0.00200		87	70-130	1	20	
Styrene	0.0017	0.0005	mg/L	0.00200		83	70-130	5	20	
Tetrachloroethene	0.0021	0.0005	mg/L	0.00200		105	70-130	4	20	
Toluene	0.0018	0.0005	mg/L	0.00200		88	70-130	0	20	
Total THMs	0.0078	0.0005	mg/L	0.00800		97	0-200	4	200	
trans-1,2-Dichloroethene	0.0022	0.0005	mg/L	0.00200		108	70-130	16	20	
Trichloroethene	0.0020	0.0005	mg/L	0.00200		98	70-130	8	20	
Vinyl chloride	0.0023	0.0005	mg/L	0.00200		114	70-130	15	20	
Xylenes (total)	0.0051	0.0005	mg/L	0.00600		85	0-200	3	200	

Semi-Volatile Organic Compounds - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H0027 - Default Prep GC-Semi										
Blank (B3H0027-BLK1)				*Prepared & Analyzed: 08/01/13*						
3-Hydroxycarbofuran	<0.0005	0.0005	mg/L							
Aldicarb	<0.0005	0.0005	mg/L							
Aldicarb sulfone	<0.0008	0.0008	mg/L							
Aldicarb sulfoxide	<0.0005	0.0005	mg/L							
Carbaryl	<0.0005	0.0005	mg/L							
Carbofuran	<0.0009	0.0009	mg/L							
Methomyl	<0.0005	0.0005	mg/L							
Oxamyl	<0.0020	0.0020	mg/L							
LCS (B3H0027-BS1)				*Prepared & Analyzed: 08/01/13*						
3-Hydroxycarbofuran	0.0020	0.0005	mg/L	0.00200		99	70-130			
Aldicarb	0.0020	0.0005	mg/L	0.00200		98	70-130			
Aldicarb sulfone	0.0020	0.0008	mg/L	0.00200		99	70-130			
Aldicarb sulfoxide	0.0020	0.0005	mg/L	0.00200		100	70-130			
Carbaryl	0.0020	0.0005	mg/L	0.00200		101	70-130			
Carbofuran	0.0020	0.0009	mg/L	0.00200		99	70-130			
Methomyl	0.0020	0.0005	mg/L	0.00200		98	70-130			
Oxamyl	0.0019	0.0020	mg/L	0.00200		97	70-130			
LCS Dup (B3H0027-BSD1)				*Prepared & Analyzed: 08/01/13*						
3-Hydroxycarbofuran	0.0020	0.0005	mg/L	0.00200		98	70-130	0.9	20	
Aldicarb	0.0020	0.0005	mg/L	0.00200		98	70-130	0.05	20	
Aldicarb sulfone	0.0020	0.0008	mg/L	0.00200		98	70-130	0.3	20	
Aldicarb sulfoxide	0.0020	0.0005	mg/L	0.00200		100	70-130	0.2	20	
Carbaryl	0.0020	0.0005	mg/L	0.00200		101	70-130	0.2	20	
Carbofuran	0.0020	0.0009	mg/L	0.00200		98	70-130	0.7	20	
Methomyl	0.0020	0.0005	mg/L	0.00200		98	70-130	0.4	20	
Oxamyl	0.0019	0.0020	mg/L	0.00200		97	70-130	0.2	20	

Semi-Volatile Organic Compounds - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H0027 - Default Prep GC-Semi										
Matrix Spike (B3H0027-MS1)		**Source: 3071222-01**		*Prepared & Analyzed: 08/01/13*						
3-Hydroxycarbofuran	0.0020	0.0005	mg/L	0.00200	<0.0005	100	70-130			
Aldicarb	0.0020	0.0005	mg/L	0.00200	<0.0005	99	70-130			
Aldicarb sulfone	0.0020	0.0008	mg/L	0.00200	<0.0008	100	70-130			
Aldicarb sulfoxide	0.0020	0.0005	mg/L	0.00200	<0.0005	102	70-130			
Carbaryl	0.0020	0.0005	mg/L	0.00200	<0.0005	102	70-130			
Carbofuran	0.0020	0.0009	mg/L	0.00200	<0.0009	100	70-130			
Methomyl	0.0020	0.0005	mg/L	0.00200	<0.0005	98	70-130			
Oxamyl	0.0020	0.0020	mg/L	0.00200	<0.0020	98	70-130			
Matrix Spike Dup (B3H0027-MSD1)		**Source: 3071222-01**		*Prepared & Analyzed: 08/01/13*						
3-Hydroxycarbofuran	0.0020	0.0005	mg/L	0.00200	<0.0005	100	70-130	0.1	30	
Aldicarb	0.0020	0.0005	mg/L	0.00200	<0.0005	98	70-130	0.2	30	
Aldicarb sulfone	0.0020	0.0008	mg/L	0.00200	<0.0008	99	70-130	0.4	30	
Aldicarb sulfoxide	0.0020	0.0005	mg/L	0.00200	<0.0005	102	70-130	0.2	30	
Carbaryl	0.0020	0.0005	mg/L	0.00200	<0.0005	102	70-130	0.1	30	
Carbofuran	0.0020	0.0009	mg/L	0.00200	<0.0009	99	70-130	0.6	30	
Methomyl	0.0020	0.0005	mg/L	0.00200	<0.0005	99	70-130	0.8	30	
Oxamyl	0.0020	0.0020	mg/L	0.00200	<0.0020	98	70-130	0.3	30	

Herbicides - Quality Control

Legend Technical Services of Arizona, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H0181 - Default Prep GC-Semi										
Blank (B3H0181-BLK1)				*Prepared & Analyzed: 08/08/13*						
Glyphosate	<0.006	0.006	mg/L							
LCS (B3H0181-BS1)				*Prepared & Analyzed: 08/08/13*						
Glyphosate	0.054	0.006	mg/L	0.0500		108	70-130			
LCS Dup (B3H0181-BSD1)				*Prepared & Analyzed: 08/08/13*						
Glyphosate	0.049	0.006	mg/L	0.0500		97	70-130	10	20	
Matrix Spike (B3H0181-MS1)		**Source: 3072452-01**		*Prepared & Analyzed: 08/08/13*						
Glyphosate	0.051	0.006	mg/L	0.0500	<0.006	103	70-130			
Matrix Spike Dup (B3H0181-MSD1)		**Source: 3072452-01**		*Prepared & Analyzed: 08/08/13*						
Glyphosate	0.051	0.006	mg/L	0.0500	<0.006	101	70-130	2	20	

PESTICIDES/PCBS 505 - Quality Control

Legend Technical Services, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H0211 - EPA 500 Series										
Blank (B3H0211-BLK1)				*Prepared & Analyzed: 08/02/13*						
Aroclor 1016	<0.000080	0.000080	mg/L							
Aroclor 1221	<0.020	0.020	mg/L							
Aroclor 1232	<0.00050	0.00050	mg/L							
Aroclor 1242	<0.00030	0.00030	mg/L							
Aroclor 1248	<0.00010	0.00010	mg/L							
Aroclor 1254	<0.00010	0.00010	mg/L							
Aroclor 1260	<0.00020	0.00020	mg/L							
Chlordane	<0.00020	0.00020	mg/L							
Toxaphene	<0.0010	0.0010	mg/L							
LCS (B3H0211-BS1)				*Prepared & Analyzed: 08/02/13*						
Chlordane	0.00117	0.00020	mg/L	0.00100		117	70-130			
LCS Dup (B3H0211-BSD1)				*Prepared & Analyzed: 08/02/13*						
Chlordane	0.00103	0.00020	mg/L	0.00100		103	70-130	12.4	20	
Matrix Spike (B3H0211-MS1)		**Source: 1303422-01**		*Prepared & Analyzed: 08/02/13*						
Chlordane	0.00103	0.00020	mg/L	0.000983	<0.00020	105	65-135			

EPA 504.1 - Quality Control

UL#AZ0432

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 182302 - MLLE										
Reference (2868078)		**Source: 40958**		*Prepared & Analyzed: 08/01/13*						
1,2-Dibromo-3-chloropropane (DBCP)	0.00010	0.00002	mg/L	0.0001		105	70-130			
1,2-Dibromoethane (EDB)	0.00010	0.00001	mg/L	0.0001		98	70-130			
Reference (2868079)		**Source: 40958**		*Prepared: 08/01/13 Analyzed: 08/02/13*						
1,2-Dibromo-3-chloropropane (DBCP)	0.00011	0.00002	mg/L	0.0001		112	70-130			
1,2-Dibromoethane (EDB)	0.00010	0.00001	mg/L	0.0001		103	70-130			
Reference (2868080)		**Source: 40958**		*Prepared & Analyzed: 08/01/13*						
1,2-Dibromo-3-chloropropane (DBCP)	0.00002	0.00002	mg/L	0.00002		113	60-140			
1,2-Dibromoethane (EDB)	0.00002	0.00001	mg/L	0.00002		120	60-140			
LCS (2868081)		**Source: 40958**		*Prepared & Analyzed: 08/01/13*						
1,2-Dibromo-3-chloropropane (DBCP)	0.00026	0.00002	mg/L	0.000257		100	70-130			
1,2-Dibromoethane (EDB)	0.00025	0.00001	mg/L	0.000257		97	70-130			
LCS (2868082)		**Source: 40958**		*Prepared: 08/01/13 Analyzed: 08/02/13*						
1,2-Dibromo-3-chloropropane (DBCP)	0.00026	0.00002	mg/L	0.000257		103	70-130			
1,2-Dibromoethane (EDB)	0.00026	0.00001	mg/L	0.000257		101	70-130			
Blank (2868083)		**Source: 40958**		*Prepared: 08/01/13 Analyzed: 08/02/13*						
1,2-Dibromo-3-chloropropane (DBCP)	<0.00002	0.00002	mg/L				-			
1,2-Dibromoethane (EDB)	<0.00001	0.00001	mg/L				-			

EPA 515.3 - Quality Control

UL#AZ0432

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 182296 - MLLE										
Reference (2868933)		**Source: 40984**		*Prepared & Analyzed: 08/02/13*						
2,4,5-TP (Silvex)	0.0006	0.0002	mg/L	0.0005		122	70-130			
2,4-D	0.0009	0.0001	mg/L	0.001		93	70-130			
Dalapon	<0.0010	0.0010	mg/L	0.001		82	70-130			
Dicamba	0.0011	0.0001	mg/L	0.001		112	70-130			
Dinoseb	0.0011	0.0002	mg/L	0.001		111	70-130			
Pentachlorophenol	0.00022	0.00004	mg/L	0.0002		110	70-130			
Picloram	0.0005	0.0001	mg/L	0.0005		93	70-130			
Reference (2868934)		**Source: 40984**		*Prepared: 08/02/13 Analyzed: 08/03/13*						
2,4,5-TP (Silvex)	0.0016	0.0002	mg/L	0.0015		109	70-130			
2,4-D	0.0030	0.0001	mg/L	0.003		101	70-130			
Dalapon	0.0034	0.0010	mg/L	0.003		112	70-130			
Dicamba	0.0031	0.0001	mg/L	0.003		105	70-130			
Dinoseb	0.0031	0.0002	mg/L	0.003		102	70-130			
Pentachlorophenol	0.00062	0.00004	mg/L	0.0006		103	70-130			
Picloram	0.0017	0.0001	mg/L	0.0015		112	70-130			
Blank (2868935)		**Source: 40984**		*Prepared & Analyzed: 08/02/13*						
2,4,5-TP (Silvex)	<0.0002	0.0002	mg/L				-			
2,4-D	<0.0001	0.0001	mg/L				-			
Dalapon	<0.0010	0.0010	mg/L				-			
Dicamba	<0.0001	0.0001	mg/L				-			
Dinoseb	<0.0002	0.0002	mg/L				-			
Pentachlorophenol	<0.00004	0.00004	mg/L				-			
Picloram	<0.0001	0.0001	mg/L				-			

EPA 515.3 - Quality Control

UL#AZ0432

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 182296 - MLLE										
LCS (2868937)		**Source: 40984**		*Prepared & Analyzed: 08/02/13*						
2,4,5-TP (Silvex)	<0.0002	0.0002	mg/L	0.0001		97	48-148			
2,4-D	0.0002	0.0001	mg/L	0.0002		85	24-138			
Dinoseb	<0.0002	0.0002	mg/L	0.0002		96	39-141			
Pentachlorophenol	<0.00004	0.00004	mg/L	0.00004		94	30-171			
Picloram	<0.0001	0.0001	mg/L	0.0001		94	24-150			

EPA 525.2 - Quality Control

UL#AZ0432

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 182324 - SPE										
LCS (2868187)		**Source: 40961**		*Prepared: 08/01/13 Analyzed: 08/02/13*						
Alachlor	0.0020	0.0002	mg/L	0.002		101	70-130			
Aldrin	0.0017	0.0001	mg/L	0.002		86	70-130			
Atrazine	0.0021	0.0001	mg/L	0.002		105	70-130			
Benzo(a)pyrene	0.0015	0.00002	mg/L	0.002		76	70-130			
Butachlor	0.0021	0.0001	mg/L	0.002		103	70-130			
Di(2-ethylhexyl)adipate	0.0022	0.0006	mg/L	0.002		108	70-130			
Di(2-ethylhexyl)phthalate	0.0021	0.0006	mg/L	0.002		104	70-130			
Dieldrin	0.0020	0.0001	mg/L	0.002		99	70-130			
Endrin	0.0022	0.00001	mg/L	0.002		108	70-130			
gamma-BHC (Lindane)	0.0020	0.00002	mg/L	0.002		101	70-130			
Heptachlor	0.0019	0.00004	mg/L	0.002		93	70-130			
Heptachlor epoxide	0.0020	0.00002	mg/L	0.002		100	70-130			
Hexachlorobenzene	0.0018	0.0001	mg/L	0.002		91	70-130			
Hexachlorocyclopentadiene	0.0018	0.0001	mg/L	0.002		90	70-130			
Methoxychlor	0.0020	0.0001	mg/L	0.002		101	70-130			
Metolachlor	0.0020	0.0001	mg/L	0.002		100	70-130			
Metribuzin	0.0018	0.0001	mg/L	0.002		88	70-130			
Propachlor	0.0021	0.0001	mg/L	0.002		104	70-130			
Simazine	0.0018	0.00007	mg/L	0.002		92	70-130			
LCS (2868188)		**Source: 40961**		*Prepared: 08/01/13 Analyzed: 08/02/13*						
Alachlor	<0.0002	0.0002	mg/L	0.0001		97	66-122			
Atrazine	<0.0001	0.0001	mg/L	0.0001		96	73-138			
Benzo(a)pyrene	<0.00002	0.00002	mg/L	0.00002		60	43-174			
Di(2-ethylhexyl)adipate	0.0007	0.0006	mg/L	0.0006		114	75-147			
Di(2-ethylhexyl)phthalate	0.0006	0.0006	mg/L	0.0006		103	54-149			
Endrin	0.00001	0.00001	mg/L	0.00001		110	42-294			
gamma-BHC (Lindane)	0.00002	0.00002	mg/L	0.00002		100	73-150			
Heptachlor	<0.00004	0.00004	mg/L	0.00004		88	65-124			
Heptachlor epoxide	<0.00002	0.00002	mg/L	0.00002		85	46-163			
Hexachlorobenzene	<0.0001	0.0001	mg/L	0.0001		62	62-114			
Hexachlorocyclopentadiene	<0.0001	0.0001	mg/L	0.0001		68	51-102			
Methoxychlor	<0.0001	0.0001	mg/L	0.0001		94	51-111			
Metolachlor	<0.0001	0.0001	mg/L	0.0001		86	61-116			
Simazine	<0.00007	0.00007	mg/L	0.00007		89	66-118			

EPA 525.2 - Quality Control

UL#AZ0432

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 182324 - SPE										
Reference (2868189)		**Source: 40962**		*Prepared: 08/01/13 Analyzed: 08/02/13*						
Alachlor	0.0009	0.0002	mg/L	0.001		86	70-130			
Aldrin	0.0008	0.0001	mg/L	0.001		81	70-130			
Atrazine	0.0008	0.0001	mg/L	0.001		85	70-130			
Benzo(a)pyrene	0.00081	0.00002	mg/L	0.001		81	70-130			
Butachlor	0.0008	0.0001	mg/L	0.001		83	70-130			
Di(2-ethylhexyl)adipate	0.0010	0.0006	mg/L	0.001		96	70-130			
Di(2-ethylhexyl)phthalate	0.0010	0.0006	mg/L	0.001		98	70-130			
Dieldrin	0.0008	0.0001	mg/L	0.001		85	70-130			
Endrin	0.00085	0.00001	mg/L	0.001		85	70-130			
gamma-BHC (Lindane)	0.00082	0.00002	mg/L	0.001		82	70-130			
Heptachlor	0.00080	0.00004	mg/L	0.001		80	70-130			
Heptachlor epoxide	0.00080	0.00002	mg/L	0.001		80	70-130			
Hexachlorobenzene	0.0008	0.0001	mg/L	0.001		77	70-130			
Hexachlorocyclopentadiene	0.0009	0.0001	mg/L	0.001		88	70-130			
Methoxychlor	0.0008	0.0001	mg/L	0.001		84	70-130			
Metolachlor	0.0008	0.0001	mg/L	0.001		82	70-130			
Metribuzin	0.0009	0.0001	mg/L	0.001		89	70-130			
Propachlor	0.0008	0.0001	mg/L	0.001		85	70-130			
Simazine	0.00079	0.00007	mg/L	0.001		79	70-130			
Reference (2868190)		**Source: 40962**		*Prepared: 08/01/13 Analyzed: 08/03/13*						
Alachlor	0.0008	0.0002	mg/L	0.001		80	70-130			
Aldrin	0.0008	0.0001	mg/L	0.001		77	70-130			
Atrazine	0.0008	0.0001	mg/L	0.001		84	70-130			
Benzo(a)pyrene	0.00080	0.00002	mg/L	0.001		80	70-130			
Butachlor	0.0008	0.0001	mg/L	0.001		84	70-130			
Di(2-ethylhexyl)adipate	0.0010	0.0006	mg/L	0.001		96	70-130			
Di(2-ethylhexyl)phthalate	0.0009	0.0006	mg/L	0.001		86	70-130			
Dieldrin	0.0008	0.0001	mg/L	0.001		84	70-130			
Endrin	0.00075	0.00001	mg/L	0.001		75	70-130			
gamma-BHC (Lindane)	0.00082	0.00002	mg/L	0.001		82	70-130			
Heptachlor	0.00082	0.00004	mg/L	0.001		82	70-130			
Heptachlor epoxide	0.00080	0.00002	mg/L	0.001		80	70-130			
Hexachlorobenzene	0.0008	0.0001	mg/L	0.001		76	70-130			
Hexachlorocyclopentadiene	0.0009	0.0001	mg/L	0.001		90	70-130			
Methoxychlor	0.0008	0.0001	mg/L	0.001		80	70-130			
Metolachlor	0.0008	0.0001	mg/L	0.001		80	70-130			
Metribuzin	0.0009	0.0001	mg/L	0.001		86	70-130			
Propachlor	0.0009	0.0001	mg/L	0.001		87	70-130			
Simazine	0.00077	0.00007	mg/L	0.001		77	70-130			

EPA 525.2 - Quality Control

UL#AZ0432

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 182324 - SPE										
Reference (2868191)		**Source: 40962**		*Prepared: 08/01/13 Analyzed: 08/03/13*						
Alachlor	0.0008	0.0002	mg/L	0.001		81	70-130			
Aldrin	0.0008	0.0001	mg/L	0.001		80	70-130			
Atrazine	0.0008	0.0001	mg/L	0.001		84	70-130			
Benzo(a)pyrene	0.00083	0.00002	mg/L	0.001		83	70-130			
Butachlor	0.0009	0.0001	mg/L	0.001		89	70-130			
Di(2-ethylhexyl)adipate	0.0010	0.0006	mg/L	0.001		101	70-130			
Di(2-ethylhexyl)phthalate	0.0009	0.0006	mg/L	0.001		93	70-130			
Dieldrin	0.0009	0.0001	mg/L	0.001		90	70-130			
Endrin	0.00074	0.00001	mg/L	0.001		74	70-130			
gamma-BHC (Lindane)	0.00081	0.00002	mg/L	0.001		81	70-130			
Heptachlor	0.00080	0.00004	mg/L	0.001		80	70-130			
Heptachlor epoxide	0.00082	0.00002	mg/L	0.001		82	70-130			
Hexachlorobenzene	0.0008	0.0001	mg/L	0.001		78	70-130			
Hexachlorocyclopentadiene	0.0008	0.0001	mg/L	0.001		81	70-130			
Methoxychlor	0.0007	0.0001	mg/L	0.001		74	70-130			
Metolachlor	0.0008	0.0001	mg/L	0.001		79	70-130			
Metribuzin	0.0008	0.0001	mg/L	0.001		84	70-130			
Propachlor	0.0008	0.0001	mg/L	0.001		85	70-130			
Simazine	0.00076	0.00007	mg/L	0.001		76	70-130			
Blank (2868194)		**Source: 40961**		*Prepared: 08/01/13 Analyzed: 08/02/13*						
Alachlor	<0.0002	0.0002	mg/L				-			
Aldrin	<0.0001	0.0001	mg/L				-			
Atrazine	<0.0001	0.0001	mg/L				-			
Benzo(a)pyrene	<0.00002	0.00002	mg/L				-			
Butachlor	<0.0001	0.0001	mg/L				-			
Di(2-ethylhexyl)adipate	<0.0006	0.0006	mg/L				-			
Di(2-ethylhexyl)phthalate	<0.0006	0.0006	mg/L				-			
Dieldrin	<0.0001	0.0001	mg/L				-			
Endrin	<0.00001	0.00001	mg/L				-			
gamma-BHC (Lindane)	<0.00002	0.00002	mg/L				-			
Heptachlor	<0.00004	0.00004	mg/L				-			
Heptachlor epoxide	<0.00002	0.00002	mg/L				-			
Hexachlorobenzene	<0.0001	0.0001	mg/L				-			
Hexachlorocyclopentadiene	<0.0001	0.0001	mg/L				-			
Methoxychlor	<0.0001	0.0001	mg/L				-			
Metolachlor	<0.0001	0.0001	mg/L				-			
Metribuzin	<0.0001	0.0001	mg/L				-			
Propachlor	<0.0001	0.0001	mg/L				-			
Simazine	<0.00007	0.00007	mg/L				-			

EPA 548.1 - Quality Control

UL#AZ0432

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 182263 - SPE										
Blank (2867311)		**Source: 40936**		*Prepared: 07/31/13 Analyzed: 08/01/13*						
Endothall	<0.0090	0.0090	mg/L				-			
LCS (2867312)		**Source: 40936**		*Prepared: 07/31/13 Analyzed: 08/01/13*						
Endothall	0.011	0.0090	mg/L	0.009		125	38-161			
LCS (2867313)		**Source: 40936**		*Prepared: 07/31/13 Analyzed: 08/01/13*						
Endothall	0.12	0.0090	mg/L	0.1		124	70-142			
Reference (2867314)		**Source: 40937**		*Prepared: 07/31/13 Analyzed: 08/01/13*						
Endothall	0.12	0.0090	mg/L	0.1		117	70-130			
Reference (2867315)		**Source: 40937**		*Prepared: 07/31/13 Analyzed: 08/01/13*						
Endothall	0.11	0.0090	mg/L	0.1		110	70-130			

EPA 549.2 - Quality Control

UL#AZ0432

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 182241 - SPE										
Blank (2868262)		**Source: 40965**		*Prepared & Analyzed: 08/01/13*						
Diquat	<0.0004	0.0004	mg/L				-			
LCS (2868264)		**Source: 40965**		*Prepared & Analyzed: 08/01/13*						
Diquat	<0.0004	0.0004	mg/L	0.0004		79	21-161			
LCS (2868266)		**Source: 40965**		*Prepared & Analyzed: 08/01/13*						
Diquat	0.0044	0.0004	mg/L	0.005		87	70-130			
Reference (2868269)		**Source: 40865**		*Prepared: 07/25/13 Analyzed: 08/01/13*						
Diquat	0.0018	0.0004	mg/L	0.002		92	80-120			
Reference (2868270)		**Source: 40865**		*Prepared: 07/25/13 Analyzed: 08/01/13*						
Diquat	0.0046	0.0004	mg/L	0.005		92	80-120			

Notes and Definitions

S6	Surrogate was below laboratory and method acceptance limits.
S11	Surrogate was high. Data reported per ADEQ policy 0154.000.
N1	See case narrative.
M2	Matrix spike recovery was low; the associated blank spike recovery was acceptable.
J	Concentration detected is below the calibration range
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
E7	Concentration estimated. Internal standard recoveries did not meet laboratory acceptance criteria.
D1	Sample required dilution due to matrix.
BLK	Method Blank
LCS/Dup	Laboratory Control Sample/Laboratory Fortified Blank/Duplicate
MS/Dup	Matrix Spike/Duplicate
Dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Laboratory Sample ID: 3072448

CHAIN OF CUSTODY RECORD

LEGEND Technical Services, Inc.
www.legend-group.com

☒ 7831 N. 25th Avenue • Phoenix, AZ 85023 • (602) 324-6100 • Fax (602) 324-6101
☐ 4585 S. Palo Verde Rd, Ste 403 • Tucson, AZ 85706 • (520) 327-1234 • Fax (520) 327-6515

Page 1 of 1

Please Print Clearly

CLIENT INFORMATION

Client Name	Address	City	State	Zip	Phone	Fax Number or Email Address
YELLOW JACKET DRILLING SVCS	POB 801	GILBERT	AZ	85299-0801	602-453-3252	vern@yjdrilling.com

Project Name	Project Number/PWS	Contact	P.O. No.	
New Source HAMP	13-0111 AZ	Vern		Fax Results ☐ Email Results ☒ QC Report ☐ EDD ☐ Special Detection Limits ☐

Send Results to Shanda.com

SAMPLE TYPE CODES: DW=Drinking Water; WW=Wastewater; SW=Surface Water; GW=Groundwater; Co=Other; Sl=Soil/Solid; TB=Travel Blank; F=Food; Sl=Sludge/Biosolids

TURN AROUND TIME: Laboratory Authorization Required for Rush
☒ Standard 15-20 Working Days for all other
☒ Other Rush Arsenic (Authorization Required)

REQUESTED ANALYSES

Client's	Date	Time	Sample Location/POE/DWR	Composite	Grab	Sample Type	Compliance	No. of Containers	pH ✓ (Lab Use Only)	Metals*	Asbestos	Cyanide	Nitrate, Nitrite	Langelier Index**	Total Coliform	Sulfate	Fluoride	Total Hardness***	505, 515, 525	531, 547, 548	549, Dioxin	524, 504	Gross Alpha	Radium 226/228		
HAMP WELL #2	7/29/2013	1140	Zone Z2,056		X	DW		30	✓	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		-01
Travel Blank (Do Not Open)					X	DI		3														X				-02
Temperature Blank								2																		------

RUSH
AS = 7/31/13

TO ENSURE COMPLETION OF ANALYSIS, SAMPLES MUST BE RECEIVED AT LEAST 3 HOURS PRIOR TO THE HOLD TIME EXPIRATION

Comments / Special Instructions: *Metals= Sb, As, Ba, Be, Cd, Cr, Cu, Rb, Hg, Ni, Se, Na, Tl; **Langelier Index= Ca, Alkalinity, TDS, pH; ***Total Hardness= Ca, Mg. Please rush As results
If sample source is chlorinated, different sample containers/preservatives must be used for dechlorination. Use Standard Drinking Water detection limits. See list for list required

SAMPLE CONDITION UPON RECEIPT (Lab Use)

No. of Containers	33	
Temperature	20 C	
Custody Seals	Y	N
Seals Intact	Y	N
Preserved	Y	N

WHITE-LAB YELLOW-CLIENT

	RELINQUISHED BY	Date	Time	SAMPLES RECEIVED BY	Date	Time
①	Sampler Signature: Sherry Fritz; Sampler Printed Name: SHERRY FRITZ	7/29/13	12 noon	Signature: [illegible]; Printed Name: Jose Figueroa	7-29-2013	12 noon
②	Signature: [illegible]; Printed Name: Jose Figueroa	7-29-13	8:08	Signature: Maurice Dillon; Printed Name: Marion Dillon	7/29/13	8:08
③	Signature: Maurice Dillon; Printed Name: Marion Dillon	7/29/13	10:10	Signature: [illegible]; Printed Name: Howard	7/29/13	10:10

1-531 vial received broken 7/29/13

OK per Cory to add additional analysis on attached list, all but TOC, no sample container submitted 7/29/13
OK to split off for TOC Per Cory 7/29/13

FORM GEN-170 (05/08)

RUSH NOTICE

W.O. #: 3072448

Company: Yellow Jacket Drilling Phone:

Contact:

Prelim Due Date: Final Due Date: 7/31/13

Analysis: AS

Number of Samples: 1 Date Samples Expected: 7/29/13

Matrix: DW Expiration Date:

Supervisor Approval

Inorganics:		Specifics:
Metals:	HK 7/29/13	Specifics:
Micro:		Specifics:
SOC:		Specifics:
VOC:		Specifics:
Sub1:		Specifics:
Sub2:		Specifics:

Comments:

COST:

Project Manager: CL

RUSH Initiator: CL

FORM GEN-089.1 (10/05)

The "new source approval" test from Legend Technical Services shall comply with the most recent version of the National Primary Drinking Water Regulations and shall test for the following general classes of contaminants:

1. Microorganisms
2. Organic Chemicals
3. Inorganic Chemicals
4. Radionuclides

3072448

The Contractor shall also sample and test for the following secondary parameters to determine water chemistry that may lead to customer complaints or operation and maintenance problems:

1. Alkalinity
2. Aluminum
3. Calcium
4. Chloride
5. Color
6. Copper
7. Corrosivity
8. Flouride
9. Hardness as CaCO3
10. Iron
11. Magnesium
12. Manganese
13. Nickel
14. Odor
15. pH
16. Silver
17. Sodium
18. Sulfate
19. Total Dissolved Solids (TDS)
20. Total Organic Carbon (TOC)
21. Zinc
22. Silica

Sample analysis (both acquisition and payment) shall be the sole responsibility of the Contractor. The Project Engineer shall be present during water sampling and shall initial the custody seals of the sample containers.

Legend Technical Services of Arizona, Inc.

PO Number: 3072448
Sampled By: Sherry Fritz
Compliance?: Yes No

SUBCONTRACT ORDER
3072448

SENDING LABORATORY:

Legend Technical Services of Arizona, Inc.
17831 North 25th Avenue
Phoenix, AZ 85023
Phone: 602-324-6100
Fax: 602-324-6101
Project Manager: Cory Lund

RECEIVING LABORATORY:

Radiation Safety Engineering
3245 N. Washington
Chandler, AZ 85225
Phone :(480) 897-9459
Fax: (480) 892-5446

Analysis	Due	Expires	Sample Type (circle one)	Sample Comments
Sample ID: 3072448-01	**Drinking W.**	**Sampled: 07/28/13 11:00**	**Grab Composite N/A**	
Radium 228	08/07/13 09:00	01/24/14 11:00		
Radium 226	08/07/13 09:00	01/24/14 11:00		
Gross Alpha	08/07/13 09:00	08/07/13 11:00		

Containers Supplied:
06_1000mL Plastic pH <2 w/ HNO3 (C)
06_1000mL Plastic pH <2 w/ HNO3 (D)
06_1000mL Plastic pH <2 w/ HNO3 (E)
06_1000mL Plastic pH <2 w/ HNO3 (F)

Released By (Print & Sign)	Date	Time	Received By (Print & Sign)	Date	Time
Heather Ward	7/29/13	1535	K McFarlin	7/29/13	1535
K McFarlin	7/29/13	1422	[illegible]	7-29-13	1422

Page 2 of 2

Legend Technical Services of Arizona, Inc.

SUBCONTRACT ORDER
3072448

PO Number: 3072448
Sampled By: Sherry Fritz
Compliance?: Yes No

SENDING LABORATORY:
Legend Technical Services of Arizona, Inc.
17631 North 25th Avenue
Phoenix, AZ 85023
Phone: 602-324-6100
Fax: 602-324-6101
Project Manager: Cory Lund

RECEIVING LABORATORY:
Fiberquant Analytical Services
5025 S. 33rd Street
Phoenix, AZ 85040
Phone :(602) 276-6139
Fax: (602) 276-4558

Analysis	Due	Expires	Sample Type (circle one)	Sample Comments
Sample ID: 3072448-01 Drinking W. Sampled:07/28/13 11:00 Grab Composite N/A				
Asbestos	08/07/13 09:00	07/30/13 11:00		

Containers Supplied:
03_1000mL Plastic Cool to 4° C (T)

Heather Ward	x Hward	7/30/13	805	KMcGavin	x KMcGavin	7-30-13	805
Released By (Print & Sign)		Date	Time	Received By (Print & Sign)		Date	Time
KMcGavin	x KMcGavin	7/30/13	923	[illegible]		7-30-13	9:23
Released By (Print & Sign)		Date	Time	Received By (Print & Sign)		Date	Time

Review of Analysis Request (Initials): [illegible]

Page 1 of 2

Legend Technical Services of Arizona, Inc.

PO Number: 3072448

SUBCONTRACT ORDER
3072448

SENDING LABORATORY:

Legend Technical Services of Arizona, Inc.
17631 North 25th Avenue
Phoenix, AZ 85023
Phone: 602-324-6100
Fax: 602-324-6101
Project Manager: Cory Lund

RECEIVING LABORATORY:

Pace Analytical Services
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone :(612) 607-1700
Fax: (612) 607-6444

Analysis	Due	Expires	Sample Type (circle one)	Sample Comments
Sample ID: 3072448-01	Drinking W.	Sampled:07/28/13 11:00	Grab Composite N/A	
1613-Subcontract	08/07/13 09:00	10/26/13 11:00		

Containers Supplied:
02_1000mL Amber Glass Cool to 4° C (A)

Released By (Print & Sign)	Date	Time	Received By (Print & Sign)	Date	Time
Heather Ward x HWard	7/29/13	1630	FEDEX x	7/29/13	1630
FEDEX x					

Page 1 of 2

Legend Technical Services of Arizona, Inc.

PO Number: 3072448

SUBCONTRACT ORDER
3072448

SENDING LABORATORY:

Legend Technical Services of Arizona, Inc.
17631 North 25th Avenue
Phoenix, AZ 85023
Phone: 602-324-6100
Fax: 602-324-6101
Project Manager: Cory Lund

RECEIVING LABORATORY:

Underwriter's Laboratories
110 S. Hill Street
South Bend, IN 46617
Phone :(800) 332-4345
Fax: (574) 233-8207

Analysis	Due	Expires	Sample Type (circle one)	Sample Comments
Sample ID: 3072448-01	**Drinking W**	**Sampled:07/28/13 11:00**	**Grab Composite**	**N/A**
549-Subcontract	08/07/13 09:00	08/04/13 11:00		
548-Subcontract	08/07/13 09:00	08/04/13 11:00		
525-Subcontract	08/07/13 09:00	08/11/13 11:00		
515-Subcontract	08/07/13 09:00	08/11/13 11:00		
504-Subcontract	08/07/13 09:00	08/11/13 11:00		

Containers Supplied:
11_125ml. Amber Glass Bottle w/ Sodium Sulfite (H)
11_125ml. Amber Glass Bottle w/ Sodium Sulfite (I)
20_500ml. Amber Plastic w/ S.T. & H2SO4 (J)
07_1000ml. Amber Glass pH <2 w/ SS & HCl (K)
07_1000ml. Amber Glass pH <2 w/ SS & HCl (L)
10_40ml. Sodium Thiosulfate Clear Vial Cool to 4° C (M)
10_40ml. Sodium Thiosulfate Clear Vial Cool to 4° C (N)
10_40ml. Sodium Thiosulfate Clear Vial Cool to 4° C (O)
10_40ml. Sodium Thiosulfate Clear Vial Cool to 4° C (P)

Released By (Print & Sign)	Date	Time	Received By (Print & Sign)	Date	Time
Heather Ward x Heather Ward	7/29/13	1630	FEDEX x	7/29/13	1630
FEDEX x					

Page 2 of 2

Legend Technical Services of Arizona, Inc. PO Number: 3072448

SUBCONTRACT ORDER
3072448

SENDING LABORATORY:

Legend Technical Services of Arizona, Inc.
17631 North 25th Avenue
Phoenix, AZ 85023
Phone: 602-324-6100
Fax: 602-324-6101
Project Manager: Cory Lund

RECEIVING LABORATORY:

Legend Technical Services, St. Paul AZ0557
88 Empire Drive
Saint Paul, MN 55103
Phone :(800) 826-6563
Fax: (651) 642-1239

Project: New source

Client: Valued Client - Yellow Jacket Drilling

Analysis	Due	Expires	Sample Comments
Sample ID: 3072448-01 Drinking Water **Sampled: 07/28/13 11:00**			
505-Subcontract	08/07/13 09:00	08/11/13 11:00	

Containers Supplied:
10_40mL Sodium Thiosulfate Clear Vial Cool to 4° C (Q)
10_40mL Sodium Thiosulfate Clear Vial Cool to 4° C (R)

Special Instructions:

* The sample matrix for leachates supplied to the MN laboratory reflects the matrix of the original sample received by LEGEND AZ.

Released By (Print & Sign)	Date	Time	Received By (Print & Sign)	Date	Time
Heather Ward x Hward	7/29/13	1620	x Fedex	7/29/13	1630
x					

Page 1 of 1

Copy of the water-quality laboratory results of the production well sampling HAMP Well No. 2, Hopi Tribe

LEGEND
Technical Services, Inc.
www.legend-group.com

17631 North 25th Avenue • Phoenix, AZ 85023
P (602) 324-6100 • F (602) 324-6101

-/ Becel j er - 8D5

goi l Srvut
VeLlow gvcWePBrbLlb p J er1bce
59- - E 0 l blersbPOBrYJ ubPekD
Gi oel lb, Az na852

RE: New source

Ovj orvPorO4 orW(ryer NoY 5DD- D/ D

Cepel y Seci l bcvL J er1bces oT Arbhol v, fl cY bs dLevsey Po dro1bye Pe el closey vl vLOPbcvL resulPs Tor Pe vTorel el Pbol ey dromacPY Si ese resulPs relvPe ol LO Po Pe bPel s PesPeyY Si bs co1er LePPer vl y Pe vccol dvl Ob p dvpes redresel P Pe TulL redorP Tor Pese vl vLOses vl y si ouly ol LO j e redroyucey lb TulL\ J vl dLes Tor Pr bs dromacPwere recebley j OPe Lvj orvPorOol DD7- / 7D5 D2:2aY

Si e svl dLes were drocessey lb vccoryvl ce wbP Pe . i vb oT . usPoyO yocul el P vl y Pe resulPs dresel Pey relvPe ol LOPo Pe svl dLes PesPeyY Si e . i vb oT. usPoyObs col sbyerey dvrPoTPr bs redorPY

ALL svl dLes wbL j e rePvb ey j O CE3 ENB Tor 58 yvOs Trol Pe yvPe oT Pr bs redorP vl y Pel ybscvryey ul less oPer vrrvl pel el Ps vre l vyeY

Si bs el Pbre redorP wvs re1bewey vl y vddro1ey Tor relevse j O Pe ul yersbpl eyY fT Oou i v1e vl O quesPbol s col cerl lb p Pr bs redorP, dLevse TeeLTree Po col PvcPl eY

J lb cereLO,
LEGEND TECHNICAL SERVICES OF ARIZONA, INC.

. orOCul y
. lbel PJ er1bces Redresel PvPble
6) 8- M5- 2H) D88

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

Gvpe DoT2)

Vellow gvcWeP Brtlb p J er1lce	GronecP: New source	
59- - E 0 I bterstbOBrYJ ultekD	GronecPNul j er: New J ource 4 elL- . RS DD7- / 7- 8D5	Reported:
Gi oel lb, Az na852	GronecPZ vl vper: goi l Srvut	D- 7- / 7D5 89:2D

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Type	Date Sampled	Date Received
4 elL- . RS	5DD- D/ DH8D	Brtb Wb p 4 vRer	3 rvj	DD7- / 7D5 8/ :88	DD7- / 7D5 D2:2a

Sample Condition Upon Receipt:

Sel dervRure: - Yn8 .
ALLsvl dles were recebley lb vcced Rvj le col ybRbl ul less l oRey oR erwlse lb R e cvse l vrrvRbleY

Case Narrative:

Holding Times: ALLi olylb p Rb es were l ePul less oR erwlse quvlbReyY
QA/QC Criteria: ALLvl vlOses l ePl eR oy requlrel el Rs ul less oR erwlse quvlbReyY
Certifications: AZ(PHX)0004, AZ(TUC)OOO4, AIHA#102982, CDC ELITE Member.
AccreylbRvRbl lts vddllcvj le ol lORb R e ResPl eR oys sdecRley ol evci scode oTvccreylbRvRbl i ely j OCE3 ENBY
Comments: Si ere were l o droj lel s el coul Rerey yurlb p R e drocesslb p oTR e svl dles, ul less oR erwlse l oReyY
ALLsvl dles were vl vlOhey ol v QveRQj vslts ul less yeslpl vRey vs QyrOwelpi RQY

Si lts redorPcol RvlB s yvRv R vPwere droyucey j Ov suj col RvcRey lvj orvRorOcerRbley Tbr R e Telys oTResRb p derTbrl eyY
Underwriter's Laboratories AZ0432
glb #vl FleIR
a/ 2Y2/ - Haa5a

Pace Analytical AZ0014
El lbOKvhelroR
) D- Y) 8/ Y) 28/

Legend Technical Services, St. Paul AZ0557
" vci Gi vl
) aDY- - DY28) -

Radiation Safety AZ0462
Glerre GouqueRRe
2n8Yn9/ Y92a9

Fiberquant AZ0633
° vrel 3 rvl P) 8- Y- /) Y) D5D
° vR OSowl sel y) 8- Y- /) Y) D59

Vellow gvcW¢PBrtlb p J er1lce	GronecP New source	
59- - E 0 I bierstP OBrYJ utPekD	GronecPNul j er: New J ource 4 elL- . RS DD7 / 7 8D5	**Reported:**
Gi oel lt, Az na852	GronecPZ vl vper: goi l Srvut	D- 7 / 7D5 89:2D

Well 2 CRT (3112171-01) Drinking Water (Grab) Sampled: 11/27/13 07:00 Received: 11/27/13 14:45

Al vlCre	ResulP	G< C	0 I tis	BtluRtol	" vRci	Gredvrey	Al vlChey	Z eRoy	NoRes
			0 CkAz825-						
EPA 504.1									
D,- HBtj rol oH5Hdi lorodrodvl e 6E	x8\8888-	8\8888-	l p7C	D\8D	Dn) - 88	12/05/13 00:00	12/05/13 00:00	EGA a82\D	
D,- HBtj rol oeP vl e 6EB" M	x8\8888D	8\8888D	l p7C	D\8D	Dn) - 88	12/05/13 00:00	12/05/13 00:00	EGA a82\D	
EPA 505									
Aroclor D8D)	x8\8888n	8\8888n	l p7C	D	Dn) 522	12/10/13 00:00	12/10/13 00:00	EGA a8a	
Aroclor D- - D	x8\8-	8\8-	l p7C	D	Dn) 522	12/10/13 00:00	12/10/13 00:00	EGA a8a	
Aroclor D- 5-	x8\888a	8\888a	l p7C	D	Dn) 522	12/10/13 00:00	12/10/13 00:00	EGA a8a	
Aroclor D- 2-	x8\8885	8\8885	l p7C	D	Dn) 522	12/10/13 00:00	12/10/13 00:00	EGA a8a	
Aroclor D- 2n	x8\888D	8\888D	l p7C	D	Dn) 522	12/10/13 00:00	12/10/13 00:00	EGA a8a	
Aroclor D- a2	x8\888D	8\888D	l p7C	D	Dn) 522	12/10/13 00:00	12/10/13 00:00	EGA a8a	
Aroclor D-) 8	x8\888-	8\888-	l p7C	D	Dn) 522	12/10/13 00:00	12/10/13 00:00	EGA a8a	
. i loryvl e	x8\888-	8\888-	l p7C	D	Dn) 522	12/10/13 00:00	12/10/13 00:00	EGA a8a	N2
Sot vdi el e	x8\88D	8\88D	l p7C	D	Dn) 522	12/10/13 00:00	12/10/13 00:00	EGA a8a	
EPA 515.3									
- ,2,aHSG 6J tt1et M	x8\888-	8\888-	l p7C	D	Dn) - 5/	12/05/13 00:00	12/06/13 00:00	EGA aDa\5	
- ,2HB	x8\888D	8\888D	l p7C	D	Dn) - 5/	12/05/13 00:00	12/06/13 00:00	EGA aDa\5	
Bvlvdol	x8\88D	8\88D	l p7C	D	Dn) - 5/	12/05/13 00:00	12/06/13 00:00	EGA aDa\5	
Bltcvl j v	x8\888D	8\888D	l p7C	D	Dn) - 5/	12/05/13 00:00	12/06/13 00:00	EGA aDa\5	
Blt osej	x8\888-	8\888-	l p7C	D	Dn) - 5/	12/05/13 00:00	12/06/13 00:00	EGA aDa\5	
Gel Rvci lorodi el oL	x8\88882	8\88882	l p7C	D	Dn) - 5/	12/05/13 00:00	12/06/13 00:00	EGA aDa\5	
Gtclorvl	x8\888D	8\888D	l p7C	D	Dn) - 5/	12/05/13 00:00	12/06/13 00:00	EGA aDa\5	
Surrogate: SS-2,4-Dichlorophenylacetic acid		*92 %*	*70-130*		*186237*	*12/05/13*	*12/06/13*	*EPA 515.3*	
EPA 525.2									
Alvci lor	x8\888-	8\888-	l p7C	8\9n	Dn) 5/ 5	12/05/13 00:00	12/10/13 00:00	EGA a- a\	
Alyrtb	x8\888D	8\888D	l p7C	8\9n	Dn) 5/ 5	12/05/13 00:00	12/10/13 00:00	EGA a- a\	
APvhtb e	x8\888D	8\888D	l p7C	8\9n	Dn) 5/ 5	12/05/13 00:00	12/10/13 00:00	EGA a- a\	
" el ho6vMOrel e	x8\8888-	8\8888-	l p7C	8\9n	Dn) 5/ 5	12/05/13 00:00	12/10/13 00:00	EGA a- a\	
" uRvci lor	x8\888D	8\888D	l p7C	8\9n	Dn) 5/ 5	12/05/13 00:00	12/10/13 00:00	EGA a- a\	
Blt6 HeP Oi et OMylbtlvRe	x8\888)	8\888)	l p7C	8\9n	Dn) 5/ 5	12/05/13 00:00	12/10/13 00:00	EGA a- a\	
Blt6 HeP Oi et OMdi P vlvRe	x8\888)	8\888)	l p7C	8\9n	Dn) 5/ 5	12/05/13 00:00	12/10/13 00:00	EGA a- a\	
Bltelyrtb	x8\888D	8\888D	l p7C	8\9n	Dn) 5/ 5	12/05/13 00:00	12/10/13 00:00	EGA a- a\	
El yrtb	x8\8888D	8\8888D	l p7C	8\9n	Dn) 5/ 5	12/05/13 00:00	12/10/13 00:00	EGA a- a\	
pvl l vH K. 6Ctb yvl eM	x8\8888-	8\8888-	l p7C	8\9n	Dn) 5/ 5	12/05/13 00:00	12/10/13 00:00	EGA a- a\	
KedRvci lor	x8\88882	8\88882	l p7C	8\9n	Dn) 5/ 5	12/05/13 00:00	12/10/13 00:00	EGA a- a\	
KedRvci lor edot tye	x8\8888-	8\8888-	l p7C	8\9n	Dn) 5/ 5	12/05/13 00:00	12/10/13 00:00	EGA a- a\	
Ket vci loroj el hel e	x8\888D	8\888D	l p7C	8\9n	Dn) 5/ 5	12/05/13 00:00	12/10/13 00:00	EGA a- a\	
Ket vci lorocOclodel Rytel e	x8\888D	8\888D	l p7C	8\9n	Dn) 5/ 5	12/05/13 00:00	12/10/13 00:00	EGA a- a\	
Z eP ot Oci lor	x8\888D	8\888D	l p7C	8\9n	Dn) 5/ 5	12/05/13 00:00	12/10/13 00:00	EGA a- a\	
Z eRlvci lor	x8\888D	8\888D	l p7C	8\9n	Dn) 5/ 5	12/05/13 00:00	12/10/13 00:00	EGA a- a\	
Z ePtj uhtb	x8\888D	8\888D	l p7C	8\9n	Dn) 5/ 5	12/05/13 00:00	12/10/13 00:00	EGA a- a\	
Grodvci lor	x8\888D	8\888D	l p7C	8\9n	Dn) 5/ 5	12/05/13 00:00	12/10/13 00:00	EGA a- a\	
J tb vhtb e	x8\8888/	8\8888/	l p7C	8\9n	Dn) 5/ 5	12/05/13 00:00	12/10/13 00:00	EGA a- a\	
Surrogate: SS-2,4,5,6-Tetrachloro-m-xylene		*85 %*	*70-130*		*186373*	*12/05/13*	*12/10/13*	*EPA 525.2*	
Surrogate: SS-4,4'-Dichlorobiphenyl		*98 %*	*70-130*		*186373*	*12/05/13*	*12/10/13*	*EPA 525.2*	

Cepel y Seci l tcvLJ er1lces oTArthol v, fl cY

CVj orvRorO4 orW(ryer NoY 5DD- D/ D

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Gvpe 5 oT2)

Well 2 CRT (3112171-01) Drinking Water (Grab) Sampled: 11/27/13 07:00 Received: 11/27/13 14:45

Al vlOle	ResulP	G< C	0 I B3	BlluRbl	" vRi	Gredvrey	Al vlChey	Z eP oy	NoRes
			0 OkAz825-						
EPA 548.1									
El yoP vlL	x8\889	8\889	l p7C	D	Dn) D9n	12/04/13 00:00	12/06/13 00:00	EGA a2n\D	
Surrogate: SS-2,4-Dichlorophenylacetic acid		*94 %*	*54-125*		*186198*	*12/04/13*	*12/06/13*	*EPA 548.1*	
EPA 549.2									
BltquvP	x8\8882	8\8882	l p7C	D	Dn) D- 5	12/04/13 00:00	12/04/13 00:00	EGA a29Y	
			RvylvRbl J v TeP?OEl plb eerlb p kAz82) -						
Calculation									
. ol j lb ey Rvylbul	x8\2		d. b5C	D	NA		12/05/13 00:00	. vlculvRbl	
EPA 600/00-02									
3 ross Aldi v AcRlb5?O	**0.9 ± 0.5**		d. b5C	D	NA		12/04/13 00:00	EGA) 8878 8H8-	
EPA 903.1									
Rvylbul - -) AcRlb5?O	x8\5		d. b5C	D	NA		12/05/13 00:00	EGA 985\D	
EPA 904.0									
Rvylbul - - n AcRlb5?O	x8\2		d. b5C	D	NA		12/05/13 00:00	EGA 982\8	
			Gvce Al vlOlbcvLJ er1lces, fl cY						
EPA-5 1613B-Tetras									
Bltot lb	NB 8\88888888a8		l p7C	D	D2- 8D	12/09/13 13:30	12/10/13 19:32	EGAHa D) D5" HSeRvs	
Surrogate: 13C-2,3,7,8-TCDD		*78 %*	*31.0-137.0*		*14201*	*12/09/13*	*12/10/13*	*EPA-5 1613B-Tetras*	
			Cepel y Seci l lbcvLJ er1lces oTArlbol v, fl cY						
Microbiology									
EYcolb	Aj sel P		G7A	D	" 5° 8/ - 8	11/27/13 16:25	11/27/13 16:25	J Z 9- - 5"	
SoRvL. ollbTorl s	Aj sel P		G7A	D	" 5° 8/ - 8	11/27/13 16:25	11/27/13 16:25	J Z 9- - 5"	

Vellow gvcW¢PBrtlb p J er1lce	GromecP New source	
59- - E 0 I bierstPOBrYJ utPekD	GromecPNul j er: New J ource 4 elL- . RS DD7- / 7- 8D5	**Reported:**
Gi oel lt, Az na852	GromecPZ vl vper: goi l Srvut	D- 7- / 7D5 89:2D

Well 2 CRT (3112171-01) Drinking Water (Grab) Sampled: 11/27/13 07:00 Received: 11/27/13 14:45

Al vlOle	ResulP	G< C	0 I tR	BlluRol	" vRi	Gredvrey	Al vlChey	Z eP oy	NoRes
			Cepel y Seci l lcvLJ er1lces oTArthol v, fl cY						
Total Metals									
Alul lt ul	x8Y8	8Y8	l p7C	D	" 5C88D/	12/02/13 09:00	12/04/13 14:08	EGA - 88Y	
Al Pt ol O	x8\888a	8\888a	l p7C	D	" 5C88D)	12/02/13 09:00	12/03/13 13:28	EGA - 88Y\	
Arsel lc	**0.0047**	8\88D8	l p7C	D	" 5C88D)	12/02/13 09:00	12/03/13 13:28	EGA - 88Y\	
" vrlul	x8\8D	8\8D	l p7C	D	" 5C88D/	12/02/13 09:00	12/04/13 14:08	EGA - 88Y	
" erOllul	x8\88-	8\88-	l p7C	D	" 5C88D/	12/02/13 09:00	12/04/13 14:08	EGA - 88Y	
. vyl lul	x8\888D	8\888D	l p7C	D	" 5C88D)	12/02/13 09:00	12/03/13 13:28	EGA - 88Y\	
. vlchul	xD	D	l p7C	D	" 5C88D/	12/02/13 09:00	12/04/13 14:08	EGA - 88Y	
. i rol lul	**0.006**	8\88a	l p7C	D	" 5C88D/	12/02/13 09:00	12/04/13 14:08	EGA - 88Y	
. odder	x8\8D	8\8D	l p7C	D	" 5C88D/	12/02/13 09:00	12/04/13 14:08	EGA - 88Y	
frol	x8\8a	8\8a	l p7C	D	" 5C88D/	12/02/13 09:00	12/04/13 14:08	EGA - 88Y	
Cevy	x8\88D8	8\88D8	l p7C	D	" 5C88D)	12/02/13 09:00	12/03/13 13:28	EGA - 88Y\	
Z vpl eslul	xD	D	l p7C	D	" 5C88D/	12/02/13 09:00	12/04/13 14:08	EGA - 88Y	
Z vl pvl ese	x8\8-	8\8-	l p7C	D	" 5C88D/	12/02/13 09:00	12/04/13 14:08	EGA - 88Y	
Z ercurO	x8\888-	8\888-	l p7C	D	" 5C88- -	12/02/13 09:40	12/02/13 14:28	EGA - 2a\D	
NlcW¢L	x8\8-	8\8-	l p7C	D	" 5C88D/	12/02/13 09:00	12/04/13 14:08	EGA - 88Y	
GoPvsslul	xD	D	l p7C	D	" 5C88D/	12/02/13 09:00	12/04/13 14:08	EGA - 88Y	
J elel lul	x8\88- 8	8\88- 8	l p7C	D	" 5C88D)	12/02/13 09:00	12/03/13 13:28	EGA - 88Y\	
J ltlcv, SoPvL	**27.0**	8Y-	l p7C	D	[. AC.]	12/02/13 09:00	12/04/13 14:08	EGA - 88Y	
J ltlcol	**12.6**	8\D	l p7C	D	" 5C88D/	12/02/13 09:00	12/04/13 14:08	EGA - 88Y	
J ltl1er	x8\888D	8\888D	l p7C	D	" 5C88D)	12/02/13 09:00	12/03/13 13:28	EGA - 88Y\	
J oylul	**82**	D	l p7C	D	" 5C88D/	12/02/13 09:00	12/04/13 14:08	EGA - 88Y	
Si vlllul	x8\888a	8\888a	l p7C	D	" 5C88D)	12/02/13 09:00	12/03/13 13:28	EGA - 88Y\	
. vlchul Kvryl ess vs . v. (5	x-	-	l p7C	D	[. AC.]	12/02/13 09:00	12/04/13 14:08	J Z - 528"	
Z vpl eslul Kvryl ess vs . v. (5	x2	2	l p7C	D	[. AC.]	12/02/13 09:00	12/04/13 14:08	J Z - 528"	
SoPvLKvryl ess vs . v. (5	x2	2	l p7C	D	[. AC.]	12/02/13 09:00	12/04/13 14:08	J Z - 528"	
zlb c	x8\8-	8\8-	l p7C	D	" 5C88D/	12/02/13 09:00	12/04/13 14:08	EGA - 88Y	

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Vellow gvcW¥PBrtlb p J er1lce	GromecP New source	
59- - E 0 I bterstPOBrYJ utPekD	GromecPNul j er: New J ource 4 elL- . RS DD7 / 7 8D5	**Reported:**
Gi oel lt, Az na852	GromecPZ vl vper: goi l Srvut	D- 7 / 7D5 89:2D

Well 2 CRT (3112171-01) Drinking Water (Grab) Sampled: 11/27/13 07:00 Received: 11/27/13 14:45

Al vlCPe	ResulP	G< C	0 I tPS	BltuRPol	" vRci	Gredvrey	Al vlChey	Z eRP oy	NoRes
			Cepel y Seci l ltcvLJ er1ltces oTArthol v, fl cY						
Inorganic Chemistry									
SoRvLAlWlb tPOvs . v. (5	**163**	D8	l p7C	D	" 5C8825	12/02/13 11:10	12/02/13 11:10	J Z - 5- 8 "	
" ltcvrj ol vRe AlWlb tPO	**79.9**	D8¥8	l p7C	D	" 5C8825	12/02/13 11:10	12/02/13 11:10	J Z - 5- 8 "	
. i lortye	xa¥8	a¥8	l p7C	D	" 5C8Dnn	12/06/13 09:04	12/06/13 09:04	EGA 588¥8	
. olor	xD	D	. olor 0 I tPS	D	" 5C88D-	12/02/13 09:00	12/02/13 09:00	J Z - D- 8 "	KD
. Ovl lye, SoRvL	x8¥8D8	8¥8D8	l p7C	D	" 5C88) 9	12/03/13 10:00	12/03/13 11:10	J Z 2a88 . N E	
Fluortye	**0.15**	8¥D8	l p7C	D	" 5C8D8D	12/03/13 15:50	12/03/13 15:50	J Z 2a88 F .	
NtPvRe vs N	**1.18**	8¥ 8	l p7C	D	[. AC.]	12/06/13 10:50	12/06/13 10:50	. vlculvRol	
NtPvRe + NtPRte vs N	**1.18**	8¥ 8	l p7C	D	" 5C8D9-	12/06/13 10:50	12/06/13 10:50	J Z 2a88 N(5 F	
NtPRte vs N	x8¥D8	8¥D8	l p7C	D	" 5C88DD	11/28/13 11:25	11/28/13 11:25	J Z 2a88 N(- "	
Si resi oly (yor Nul j er	xD	D	S(¥NY	D	" 5C88D5	12/02/13 09:00	12/02/13 09:00	EGA D28¥D	KD
dK	**9.7**		dK 0 I tPS	D	" 5C888n	12/01/13 10:15	12/01/13 10:15	J Z 2a88K "	Ka
Sel dervRtre	**17.0**		U	D	" 5C888n	12/01/13 10:15	12/01/13 10:15	dK Sel dervRtre	Ka
J ulTvRe	xa¥8	a¥8	l p7C	D	" 5C8Dnn	12/06/13 09:04	12/06/13 09:04	EGA 588¥8	
SoRvLBltssoL1ey J oltys	**167**	D	l p7C	D	" 5C888/	12/01/13 12:15	12/01/13 12:15	J Z - a28 .	
SoRvL(rpvl ltc . vrj ol	xD¥88	D¥88	l p7C	D	" 5C889a	12/03/13 14:08	12/03/13 14:08	J Z a5D8 .	
Volatile Organic Compounds									
D,D,DHSrltci loroeRP vl e	x8¥888a	8¥888a	l p7C	D	" 5C88a5	12/02/13 12:00	12/02/13 14:29	EGA a- 2¥	
D,D,- HSrltci loroeRP vl e	x8¥888a	8¥888a	l p7C	D	" 5C88a5	12/02/13 12:00	12/02/13 14:29	EGA a- 2¥	
D,DHBltci loroeRP el e	x8¥888a	8¥888a	l p7C	D	" 5C88a5	12/02/13 12:00	12/02/13 14:29	EGA a- 2¥	
D,- ,2HSrltci loroj el hel e	x8¥888a	8¥888a	l p7C	D	" 5C88a5	12/02/13 12:00	12/02/13 14:29	EGA a- 2¥	
D,- HBltci loroj el hel e	x8¥888a	8¥888a	l p7C	D	" 5C88a5	12/02/13 12:00	12/02/13 14:29	EGA a- 2¥	
D,- HBltci loroeRP vl e	x8¥888a	8¥888a	l p7C	D	" 5C88a5	12/02/13 12:00	12/02/13 14:29	EGA a- 2¥	
D,- HBltci lorodrodvl e	x8¥888a	8¥888a	l p7C	D	" 5C88a5	12/02/13 12:00	12/02/13 14:29	EGA a- 2¥	
D,2HBltci loroj el hel e	x8¥888a	8¥888a	l p7C	D	" 5C88a5	12/02/13 12:00	12/02/13 14:29	EGA a- 2¥	
" el hel e	x8¥888a	8¥888a	l p7C	D	" 5C88a5	12/02/13 12:00	12/02/13 14:29	EGA a- 2¥	
" rol oyltci lorol eRP vl e	x8¥888a	8¥888a	l p7C	D	" 5C88a5	12/02/13 12:00	12/02/13 14:29	EGA a- 2¥	
" rol o Tbrl	x8¥888a	8¥888a	l p7C	D	" 5C88a5	12/02/13 12:00	12/02/13 14:29	EGA a- 2¥	
. vrj ol ReRPvci Lortye	x8¥888a	8¥888a	l p7C	D	" 5C88a5	12/02/13 12:00	12/02/13 14:29	EGA a- 2¥	
. i loroj el hel e	x8¥888a	8¥888a	l p7C	D	" 5C88a5	12/02/13 12:00	12/02/13 14:29	EGA a- 2¥	
. i loro Tbrl	x8¥888a	8¥888a	l p7C	D	" 5C88a5	12/02/13 12:00	12/02/13 14:29	EGA a- 2¥	
ctsHD,- HBltci loroeRP Qel e	x8¥888a	8¥888a	l p7C	D	" 5C88a5	12/02/13 12:00	12/02/13 14:29	EGA a- 2¥	
Blp rol oci lorol eRP vl e	x8¥888a	8¥888a	l p7C	D	" 5C88a5	12/02/13 12:00	12/02/13 14:29	EGA a- 2¥	
Bltci lorol eRP vl e	x8¥888a	8¥888a	l p7C	D	" 5C88a5	12/02/13 12:00	12/02/13 14:29	EGA a- 2¥	
ERP Qj el hel e	x8¥888a	8¥888a	l p7C	D	" 5C88a5	12/02/13 12:00	12/02/13 14:29	EGA a- 2¥	
l ,dHXQel e	x8¥888a	8¥888a	l p7C	D	" 5C88a5	12/02/13 12:00	12/02/13 14:29	EGA a- 2¥	
oHXQel e	x8¥888a	8¥888a	l p7C	D	" 5C88a5	12/02/13 12:00	12/02/13 14:29	EGA a- 2¥	
J RPrel e	x8¥888a	8¥888a	l p7C	D	" 5C88a5	12/02/13 12:00	12/02/13 14:29	EGA a- 2¥	
SeRPvci loroeRP el e	x8¥888a	8¥888a	l p7C	D	" 5C88a5	12/02/13 12:00	12/02/13 14:29	EGA a- 2¥	
Soluel e	x8¥888a	8¥888a	l p7C	D	" 5C88a5	12/02/13 12:00	12/02/13 14:29	EGA a- 2¥	
SoRvLSKZ s	x8¥888a	8¥888a	l p7C	D	" 5C88a5	12/02/13 12:00	12/02/13 14:29	EGA a- 2¥	
RPvl sHD,- HBltci loroeRP el e	x8¥888a	8¥888a	l p7C	D	" 5C88a5	12/02/13 12:00	12/02/13 14:29	EGA a- 2¥	
Srltci loroeRP el e	x8¥888a	8¥888a	l p7C	D	" 5C88a5	12/02/13 12:00	12/02/13 14:29	EGA a- 2¥	
#lb CLci lortye	x8¥888a	8¥888a	l p7C	D	" 5C88a5	12/02/13 12:00	12/02/13 14:29	EGA a- 2¥	
XQel es 6RoRvlLM	x8¥888a	8¥888a	l p7C	D	" 5C88a5	12/02/13 12:00	12/02/13 14:29	EGA a- 2¥	

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Vellow gvcW¢PBrtlb p J er1lce	GronecP New source	
59- - E 0 I bterstPOBrYJ utPekD	GronecPNul j er: New J ource 4 elL- . RS DD7- / 7- 8D5	**Reported:**
Gi oel lt, Az na852	GronecPZ vl vper: goi l Srvut	D- 7- / 7D5 89:2D

Well 2 CRT (3112171-01) Drinking Water (Grab) Sampled: 11/27/13 07:00 Received: 11/27/13 14:45

Al vlOPe	ResulP	G< C	0 I tP	BtluRol	" vRi	Gredvrey	Al vlChey	Z eP oy	NoRes
			Cepel y Seci l lcvLJ er1lces oTArthol v, fl cY						
Volatile Organic Compounds									
Surrogate: 1,2-Dichlorobenzene-d4		*108 %*		*70-130*		*B3L0053*	*12/02/13*	*12/02/13*	*EPA 524.2*
Surrogate: 1,2-Dichloroethane-d4		*96 %*		*70-130*		*B3L0053*	*12/02/13*	*12/02/13*	*EPA 524.2*
Surrogate: 4-Bromofluorobenzene		*87 %*		*70-130*		*B3L0053*	*12/02/13*	*12/02/13*	*EPA 524.2*
Surrogate: Pentafluorobenzene		*107 %*		*70-130*		*B3L0053*	*12/02/13*	*12/02/13*	*EPA 524.2*
Miscellaneous									
OvI pltlr fl yet	**0.280**	Ha\88	N7A	D	" 5C8- a9	12/10/13 07:48	12/10/13 07:52	Z lscellvl eous	
Semi-Volatile Organic Compounds									
5HKOyrot Ocvrj oTurvl	x8\888a	8\888a	I p7C	D	" 5C8D/ 5	12/05/13 15:00	12/05/13 23:11	EGA a5D¥	
Alytcvrj	x8\888a	8\888a	I p7C	D	" 5C8D/ 5	12/05/13 15:00	12/05/13 23:11	EGA a5D¥	
Alytcvrj suTol e	x8\888n	8\888n	I p7C	D	" 5C8D/ 5	12/05/13 15:00	12/05/13 23:11	EGA a5D¥	
Alytcvrj suTot lye	x8\888a	8\888a	I p7C	D	" 5C8D/ 5	12/05/13 15:00	12/05/13 23:11	EGA a5D¥	
. vrj vrOL	x8\888a	8\888a	I p7C	D	" 5C8D/ 5	12/05/13 15:00	12/05/13 23:11	EGA a5D¥	
. vrj oTurvl	x8\8889	8\8889	I p7C	D	" 5C8D/ 5	12/05/13 15:00	12/05/13 23:11	EGA a5D¥	
Z eP ol OL	x8\888a	8\888a	I p7C	D	" 5C8D/ 5	12/05/13 15:00	12/05/13 23:11	EGA a5D¥	
(t vl OL	x8\88- 8	8\88- 8	I p7C	D	" 5C8D/ 5	12/05/13 15:00	12/05/13 23:11	EGA a5D¥	
Surrogate: 4-Bromo-3,5-dimethylphenyl-N-methylcarbamate		*103 %*		*70-130*		*B3L0173*	*12/05/13*	*12/05/13*	*EPA 531.2*
Herbicides									
3 lOdi osvPe	x8\88)	8\88)	I p7C	D	" 5° 8anD	12/03/13 16:00	12/03/13 21:03	EGA a2/	
			Flj erquvl PAI vlOPcvLJ er1lces kAz8) 55						
EPA 100.1									
Asj esPos	x8¥	8¥	Z FC	D	N7A	12/02/13 00:00	12/06/13 00:00	EGA D88\D	

Cepel y Seci l lcvLJ er1lces oTArthol v, fl cY

Cvj orvPorO4 orW(ryer NoY 5DD- D/ D

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Gvpe / oT2)

Vellow gvcWePBrbbb p J er1bce	GromecP: New source	
59- - E 0 I bersbPOBrYJ ubPekD	GromecPNul j er: New J ource 4 elL- . RS DD7- / 7- 8D5	**Reported:**
Gi oel bi , Az na852	GromecPZ vl vper: goi l Srvut	D- 7- / 7D5 89:2D

Microbiology - Quality Control

Legend Technical Services of Arizona, Inc.

Al vLOe	ResulP	RedorPb p Cb bP	0 I bPs	J dbWe Ce1eL	J ource ResulP	%RE.	%RE. Cb bPs	RGB	RGB Cb bP	NoPes

Batch B3_0720 - microKprep

Blank (B3_0720-BL_1) *Prepared & Analyzed: 11/27/13*

EYcolb	Aj sel P	G7A
SoRvL. olbTorl s	Aj sel P	G7A

Cepel y Seci l bcvLJ er1bces oTArthol v, fl cY

Cvj orvPorO4 orW(ryer NoY 5DD- D/ D

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Gvpe n oT2)

ED_005149_00023261-00266

Total Metals - Quality Control

Legend Technical Services of Arizona, Inc.

Al vlCPe	ResulP	RedorPb p Ct bP	0 l bPs	J dlW¢ Ce1eL	J ource ResulP	%RE.	%RE. Ct bPs	RGB	RGB Ct bP	NoPes
Batch B3L0016 - EPA 200.8										
Blank (B3L0016-BL_ 1)				*Prepared: 12/02/13 Analyzed: 12/03/13*						
Al Pb ol O	x8'\888a	8'\888a	l p7C							
Arsel tc	x8'\88D8	8'\88D8	l p7C							
. vyl tul	x8'\888D	8'\888D	l p7C							
Cevy	x8'\88D8	8'\88D8	l p7C							
J elel tul	x8'\88- 8	8'\88- 8	l p7C							
J tl1er	x8'\888D	8'\888D	l p7C							
Si vltul	x8'\888a	8'\888a	l p7C							
LCS (B3L0016-BS1)				*Prepared: 12/02/13 Analyzed: 12/03/13*						
Al Pb ol O	8'\8-) D	8'\888a	l p7C	8'\8- a8		D82	naHDDa			
Arsel tc	8'\8- / 2	8'\88D8	l p7C	8'\8- a8		DD8	naHDDa			
. vyl tul	8'\8-) a	8'\888D	l p7C	8'\8- a8		D8)	naHDDa			
Cevy	8'\8-) /	8'\88D8	l p7C	8'\8- a8		D8/	naHDDa			
J elel tul	8'\8- /)	8'\88- 8	l p7C	8'\8- a8		DD8	naHDDa			
J tl1er	8'\8- / /	8'\888D	l p7C	8'\8- a8		DDD	naHDDa			
Si vltul	8'\8- a-	8'\888a	l p7C	8'\8- a8		D8D	naHDDa			
LCS Dup (B3L0016-BSD1)				*Prepared: 12/02/13 Analyzed: 12/03/13*						
Al Pb ol O	8'\8- a2	8'\888a	l p7C	8'\8- a8		D8-	naHDDa	-	- 8	
Arsel tc	8'\8-) a	8'\88D8	l p7C	8'\8- a8		D8)	naHDDa	2	- 8	
. vyl tul	8'\8-) 8	8'\888D	l p7C	8'\8- a8		D82	naHDDa	-	- 8	
Cevy	8'\8-) /	8'\88D8	l p7C	8'\8- a8		D8/	naHDDa	8'\D	- 8	
J elel tul	8'\8-) n	8'\88- 8	l p7C	8'\8- a8		D8/	naHDDa	5	- 8	
J tl1er	8'\8- / 5	8'\888D	l p7C	8'\8- a8		D89	naHDDa	D	- 8	
Si vltul	8'\8- aD	8'\888a	l p7C	8'\8- a8		D88	naHDDa	8'\5	- 8	
Matrix Spike (B3L0016-MS1)		**Source: 3112153-02**		*Prepared: 12/02/13 Analyzed: 12/03/13*						
Al Pb ol O	8'\8- / 5	8'\888a	l p7C	8'\8- a8	8'\88885	D89	/ 8HD58			
Arsel tc	8'\85- a	8'\88D8	l p7C	8'\8- a8	8'\882/	DDD	/ 8HD58			
. vyl tul	8'\8-))	8'\888D	l p7C	8'\8- a8	x8'\888D	D8)	/ 8HD58			
Cevy	8'\8- nD	8'\88D8	l p7C	8'\8- a8	8'\888-	DD-	/ 8HD58			
J elel tul	8'\8559	8'\88- 8	l p7C	8'\8- a8	8'\88) 2	DD8	/ 8HD58			
J tl1er	8'\8- 2D	8'\888D	l p7C	8'\8- a8	x8'\888D	9/	/ 8HD58			
Si vltul	8'\8- / -	8'\888a	l p7C	8'\8- a8	x8'\888a	D89	/ 8HD58			

Total Metals - Quality Control

Legend Technical Services of Arizona, Inc.

Al vlCe	ResulP	RedorPb p Ct lP	0 l bS	J dlW¢ Ce1eL	J ource ResulP	%RE.	%RE. Ct lbS	RGB	RGB Ct lP	NoRes
Batch B3L0016 - EPA 200.8										
Matrix Spike (B3L0016-MS2)		**Source: 3112166-05**		*Prepared: 12/02/13 Analyzed: 12/03/13*						
Arsel lc	8\6222	8\68D8	l p7C	8\6- a8	8\6Da/	DDa	/ 8HD58			
Matrix Spike Dup (B3L0016-MSD1)		**Source: 3112153-02**		*Prepared: 12/02/13 Analyzed: 12/03/13*						
Al Pb ol O	8\6-) 5	8\688a	l p7C	8\6- a8	8\68885	D8a	/ 8HD58	2	- 8	
Arsel lc	8\65D/	8\68D8	l p7C	8\6- a8	8\682/	D8n	/ 8HD58	5	- 8	
. vyl lul	8\6- a-	8\688D	l p7C	8\6- a8	x8\688D	D8D	/ 8HD58	a	- 8	
Cevy	8\6- / 5	8\68D8	l p7C	8\6- a8	8\688-	D8n	/ 8HD58	5	- 8	
J elel lul	8\655D	8\68- 8	l p7C	8\6- a8	8\68) 2	D8/	/ 8HD58	5	- 8	
J ldler	8\6- 28	8\688D	l p7C	8\6- a8	x8\688D	9)	/ 8HD58	8\)	- 8	
Si vlbul	8\6- a9	8\688a	l p7C	8\6- a8	x8\688a	D82	/ 8HD58	a	- 8	
Matrix Spike Dup (B3L0016-MSD2)		**Source: 3112166-05**		*Prepared: 12/02/13 Analyzed: 12/03/13*						
Arsel lc	8\6252	8\68D8	l p7C	8\6- a8	8\6Da/	DDD	/ 8HD58	-	- 8	
Batch B3L0017 - EPA 200.7										
Blank (B3L0017-BL_1)				*Prepared: 12/02/13 Analyzed: 12/04/13*						
Alul lb ul	x8Y 8	8Y 8	l p7C							
" vrlul	x8\6D	8\6D	l p7C							
" erCllul	x8\68-	8\68-	l p7C							
. vlclul	xD	D	l p7C							
. i rol lul	x8\68a	8\68a	l p7C							
. odder	x8\6D	8\6D	l p7C							
frol	x8\6a	8\6a	l p7C							
Z vpl eslul	xD	D	l p7C							
Z vl pvl ese	x8\6-	8\6-	l p7C							
NlcW¢L	x8\6-	8\6-	l p7C							
GoPssbul	xD	D	l p7C							
J lkcol	x8\D	8\D	l p7C							
J oylul	xD	D	l p7C							
zlb c	x8\6-	8\6-	l p7C							

Total Metals - Quality Control

Legend Technical Services of Arizona, Inc.

Al vlCPe	ResulP	RedorPlb p Ctl lP	0 l lPS	J dlW¢ Ce1eL	J ource ResulP	%RE.	%RE. Ctl lPS	RGB	RGB Ctl lP	NoPes
Batch B3L0017 - EPA 200.7										
LCS (B3L0017-BS1)				*Prepared: 12/02/13 Analyzed: 12/04/13*						
Alul lt ul	- \8)	8¥ 8	l p7C	- \68		D85	naHDDa			
" vrtul	D\8a	8\8D	l p7C	D\68		D8a	naHDDa			
" erCltul	8¥ 82	8\68-	l p7C	8¥ 88		D8-	naHDDa			
. vlctul	- D	D	l p7C	- 8\8		D85	naHDDa			
. i rol tul	8\a- D	8\68a	l p7C	8\a88		D82	naHDDa			
. odder	D\85	8\8D	l p7C	D\68		D85	naHDDa			
frol	D\82	8\8a	l p7C	D\68		D82	naHDDa			
Z vpl estul	- D	D	l p7C	- 8\8		D85	naHDDa			
Z vl pvl ese	D\8a	8\8-	l p7C	D\68		D8a	naHDDa			
NtcW¢L	D\85	8\8-	l p7C	D\68		D85	naHDDa			
GoPssltul	- -	D	l p7C	- 8\8		D89	naHDDa			
J ltlcol	2¥D	8¥D	l p7C	2\68		D82	naHDDa			
J oyltul	- 8	D	l p7C	- 8\8		D8-	naHDDa			
zlt c	D\8a	8\8-	l p7C	D\68		D8a	naHDDa			
LCS Dup (B3L0017-BSD1)				*Prepared: 12/02/13 Analyzed: 12/04/13*						
Alul lt ul	- \85	8¥ 8	l p7C	- \68		D8-	naHDDa	D	- 8	
" vrtul	D\85	8\8D	l p7C	D\68		D85	naHDDa	-	- 8	
" erCltul	8\D99	8\68-	l p7C	8¥ 88		D88	naHDDa	-	- 8	
. vlctul	- 8	D	l p7C	- 8\8		D88	naHDDa	-	- 8	
. i rol tul	8\a89	8\68a	l p7C	8\a88		D8-	naHDDa	-	- 8	
. odder	D\88	8\8D	l p7C	D\68		D88	naHDDa	-	- 8	
frol	D\8D	8\8a	l p7C	D\68		D8D	naHDDa	-	- 8	
Z vpl estul	- 8	D	l p7C	- 8\8		D8D	naHDDa	-	- 8	
Z vl pvl ese	D\8-	8\8-	l p7C	D\68		D8-	naHDDa	5	- 8	
NtcW¢L	D\8D	8\8-	l p7C	D\68		D8D	naHDDa	-	- 8	
GoPssltul	- D	D	l p7C	- 8\8		D8/	naHDDa	-	- 8	
J ltlcol	2¥D	8¥D	l p7C	2\68		D8D	naHDDa	-	- 8	
J oyltul	- 8	D	l p7C	- 8\8		D88	naHDDa	-	- 8	
zlt c	D\8-	8\8-	l p7C	D\68		D8-	naHDDa	-	- 8	

Vellow gvcW¢PBrtlb p J er1lce	GronecP New source	
59- - E 0 I bierstPOBrYJ utPekD	GronecPNul j er: New J ource 4 elL- . RS DD7- / 7- 8D5	**Reported:**
Gi oel lt, Az na852	GronecPZ vl vper: goi l Srvut	D- 7- / 7D5 89:2D

Total Metals - Quality Control

Legend Technical Services of Arizona, Inc.

Al vlCPe	ResulP	RedorPlb p Ctb lP	0 I lPS	J dlW¢ Ce1eL	J ource ResulP	%RE.	%RE. Ctb lPS	RGB	RGB Ctb lP	NoPes
Batch B3L0017 - EPA 200.7										
Matrix Spike (B3L0017-MS1)		**Source: 3112166-05**		*Prepared: 12/02/13 Analyzed: 12/04/13*						
Alul lb ul	-'8/	8'¥8	I p7C	-'68	8'6DDa	D85	/ 8HD58			
" vrlul	D'6n	8'6D	I p7C	D'68	8'6/	D8D	/ 8HD58			
" erCllul	8'¥85	8'68-	I p7C	8'¥88	x8'68-	D8D	/ 8HD58			
. vlchul	a)	D	I p7C	-8'6	5n	n)	/ 8HD58			
. i rol lul	8'¥a- -	8'68a	I p7C	8'¥a88	8'6DD	D8-	/ 8HD58			
. odder	D'6D	8'6D	I p7C	D'68	x8'6D	D8D	/ 8HD58			
frol	D'5n	8'6a	I p7C	D'68	8'59	D88	/ 8HD58			
Z vpl eslul	5n	D	I p7C	-8'6	D9	9)	/ 8HD58			
Z vl pvl ese	D'8-	8'6-	I p7C	D'68	8'68D	D8-	/ 8HD58			
NlcW¢L	D'68	8'6-	I p7C	D'68	8'68-	D88	/ aHD- a			
GoPvsslul	-9	D	I p7C	-8'6	5	D- n	/ 8HD58			
J lklcol	Da'¥	8'D	I p7C	2'68	DD'¥a	92	/ 8HD58			
J oylul	DD2	D	I p7C	-8'6	9a	95	/ 8HD58			
zlb c	D'65	8'6-	I p7C	D'68	8'6D	D8-	/ 8HD58			
Matrix Spike Dup (B3L0017-MSD1)		**Source: 3112166-05**		*Prepared: 12/02/13 Analyzed: 12/04/13*						
Alul lb ul	-'6n	8'¥8	I p7C	-'68	8'6DDa	D85	/ 8HD58	8'5	-8	
" vrlul	D'D6	8'6D	I p7C	D'68	8'6/	D85	/ 8HD58	D	-8	
" erCllul	8'¥8a	8'68-	I p7C	8'¥88	x8'68-	D8-	/ 8HD58	D	-8	
. vlchul	a)	D	I p7C	-8'6	5n	n/	/ 8HD58	8'¥a	-8	
. i rol lul	8'¥a- n	8'68a	I p7C	8'¥a88	8'6DD	D85	/ 8HD58	D	-8	
. odder	D'8-	8'6D	I p7C	D'68	x8'6D	D8-	/ 8HD58	D	-8	
frol	D'59	8'6a	I p7C	D'68	8'59	D8D	/ 8HD58	8'Yn	-8	
Z vpl eslul	5n	D	I p7C	-8'6	D9	9n	/ 8HD58	8Y	-8	
Z vl pvl ese	D'85	8'6-	I p7C	D'68	8'68D	D85	/ 8HD58	D	-8	
NlcW¢L	D'8D	8'6-	I p7C	D'68	8'68-	D8D	/ aHD- a	8'Yn	-8	
GoPvsslul	-9	D	I p7C	-8'6	5	D58	/ 8HD58	-	-8	
J lklcol	Da'¥5	8'D	I p7C	2'68	DD'¥a	9/	/ 8HD58	8'Yn	-8	
J oylul	DD)	D	I p7C	-8'6	9a	D8-	/ 8HD58	-	-8	
zlb c	D'82	8'6-	I p7C	D'68	8'6D	D85	/ 8HD58	8Y	-8	

Total Metals - Quality Control

Legend Technical Services of Arizona, Inc.

Al vlC¢	ResulP	Redorf¢ p Ct¢ l¢P	0 l ¢s	J dl¢W¢ Ce1eL	J ource ResulP	%RE.	%RE. Ct¢ l¢s	RGB	RGB Ct¢ l¢P	NoR¢s
Batch B3L0022 - EPA 245.1/245.2 Prep										
Blank (B3L0022-BL_ 1)				*Prepared & Analyzed: 12/02/13*						
Z ercurO	x8'¢88-	8'¢88-	l p7C							
LCS (B3L0022-BS1)				*Prepared & Analyzed: 12/02/13*						
Z ercurO	8'¢88899	8'¢88-	l p7C	8'¢88D88		99	naHDDa			
LCS Dup (B3L0022-BSD1)				*Prepared & Analyzed: 12/02/13*						
Z ercurO	8'¢88D8-	8'¢88-	l p7C	8'¢88D88		D8-	naHDDa	5	- 8	
Matrix Spike (B3L0022-MS1)		**Source: 3111573-02**		*Prepared & Analyzed: 12/02/13*						
Z ercurO	8'¢88D82	8'¢88-	l p7C	8'¢88D88	x8'¢88-	D82	/ 8HD58			
Matrix Spike (B3L0022-MS2)		**Source: 3111672-03**		*Prepared & Analyzed: 12/02/13*						
Z ercurO	8'¢88D8/	8'¢88-	l p7C	8'¢88D88	x8'¢88-	D8/	/ 8HD58			
Matrix Spike Dup (B3L0022-MSD1)		**Source: 3111573-02**		*Prepared & Analyzed: 12/02/13*						
Z ercurO	8'¢88D8a	8'¢88-	l p7C	8'¢88D88	x8'¢88-	D8a	/ 8HD58	D	- 8	
Matrix Spike Dup (B3L0022-MSD2)		**Source: 3111672-03**		*Prepared & Analyzed: 12/02/13*						
Z ercurO	8'¢88D8/	8'¢88-	l p7C	8'¢88D88	x8'¢88-	D8/	/ 8HD58	8	- 8	

Inorganic Chemistry - Quality Control

Legend Technical Services of Arizona, Inc.

Al vlCPe	ResulP	Redorf%p Ct% lP	0 I lP%	J dlW¥ Ce1eL	J ource ResulP	%RE.	%RE. Ct% lP%	RGB	RGB Ct% lP	NoPes
Batch B3L0007 - NO PREP										
Blank (B3L0007-BL_1)				*Prepared & Analyzed: 12/01/13*						
SoPvLBlssol1ey J ollys	xD	D	I p7C							
Duplicate (B3L0007-DUP1)		**Source: 3112171-01**		*Prepared & Analyzed: 12/01/13*						
SoPvLBlssol1ey J ollys	D) n	D	I p7C		D) /			8Y)	a	
Batch B3L0008 - NO PREP										
Duplicate (B3L0008-DUP1)		**Source: 3112133-01**		*Prepared & Analyzed: 12/01/13*						
dK	nY-		dK 0 I P%		nY-			8	D8	Ka
Batch B3L0011 - NO PREP										
Blank (B3L0011-BL_1)				*Prepared & Analyzed: 11/28/13*						
NbPPe vs N	x8YD6	8YD8	I p7C							
LCS (B3L0011-BS1)				*Prepared & Analyzed: 11/28/13*						
NbPPe vs N	8Y-8a	8YD8	I p7C	8Y-88		D8-	n8HD-8			
LCS Dup (B3L0011-BSD1)				*Prepared & Analyzed: 11/28/13*						
NbPPe vs N	8Y-8)	8YD8	I p7C	8Y-88		D85	n8HD-8	8Ya	-8	
Matrix Spike (B3L0011-MS1)		**Source: 3112171-01**		*Prepared & Analyzed: 11/28/13*						
NbPPe vs N	8YDna	8YD8	I p7C	8Y-88	x8YD8	9-	n8HD-8			
Matrix Spike Dup (B3L0011-MSD1)		**Source: 3112171-01**		*Prepared & Analyzed: 11/28/13*						
NbPPe vs N	8YDna	8YD8	I p7C	8Y-88	x8YD8	9-	n8HD-8	8	-8	

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Al vlCte	ResulP	Redorfl p Ct lP	0 I lS	J dlW¢ Ce1eL	J ource ResulP	%RE.	%RE. Ct lS	RGB	RGB Ct lP	NoRes
Batch B3L0012 - NO PREP										
Duplicate (B3L0012-DUP1)		**Source: 3112171-01**		*Prepared & Analyzed: 12/02/13*						
. olor	xD	D	. olor 0 I lS		8				- 8	
Batch B3L0013 - NO PREP										
Duplicate (B3L0013-DUP1)		**Source: 3112171-01**		*Prepared & Analyzed: 12/02/13*						
Si resi oly (yor Nul j er	xD	D	SY(YNY		8				- 88	
Batch B3L0043 - NO PREP										
Blank (B3L0043-BL_1)				*Prepared & Analyzed: 12/02/13*						
SoRvLAlWlb lPOvs . v. (5	xD8	D8	I p7C							
Blank (B3L0043-BL_2)				*Prepared & Analyzed: 12/02/13*						
SoRvLAlWlb lPOvs . v. (5	xD8	D8	I p7C							
LCS (B3L0043-BS1)				*Prepared & Analyzed: 12/02/13*						
SoRvLAlWlb lPOvs . v. (5	D92	D8	I p7C	- 88		9/	n8HD- 8			
LCS Dup (B3L0043-BSD1)				*Prepared & Analyzed: 12/02/13*						
SoRvLAlWlb lPOvs . v. (5	D9a	D8	I p7C	- 88		9n	n8HD- 8	8Y)	- 8	
Matrix Spike (B3L0043-MS1)		**Source: 3111654-01**		*Prepared & Analyzed: 12/02/13*						
SoRvLAlWlb lPOvs . v. (5	- an	D8	I p7C	- 88	D5-	) 5	n8HD- 8			Z -
Matrix Spike (B3L0043-MS2)		**Source: 3111966-01**		*Prepared & Analyzed: 12/02/13*						
SoRvLAlWlb lPOvs . v. (5	- 9n	D8	I p7C	- 88	D28	/ 9	n8HD- 8			Z -

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Al vlC?e	ResulP	Redor?ll p Ct lP	0 l l?3	J dl?W¢ Ce1eL	J ource ResulP	%RE.	%RE. Ct l l?3	RGB	RGB Ct l lP	NoR?s
Batch B3L0043 - NO PREP										
Matrix Spike Dup (B3L0043-MSD1)		**Source: 3111654-01**		*Prepared & Analyzed: 12/02/13*						
SoR?LAlW?lb l?Ovs . v. (5	-)8	D8	l p7C	-88	D5-	)2	n8HD-8	8Y\	-8	Z-
Matrix Spike Dup (B3L0043-MSD2)		**Source: 3111966-01**		*Prepared & Analyzed: 12/02/13*						
SoR?LAlW?lb l?Ovs . v. (5	-9n	D8	l p7C	-88	D28	/9	n8HD-8	8\8n	-8	Z-
Batch B3L0069 - NO PREP										
Blank (B3L0069-BL_1)				*Prepared & Analyzed: 12/03/13*						
. Ov l lye, SoR?L	x8\8D8	8\8D8	l p7C							
LCS (B3L0069-BS1)				*Prepared & Analyzed: 12/03/13*						
. Ov l lye, SoR?L	8\8a-	8\8D8	l p7C	8\8a88		D82	n8HD-8			
LCS Dup (B3L0069-BSD1)				*Prepared & Analyzed: 12/03/13*						
. Ov l lye, SoR?L	8\8a8	8\8D8	l p7C	8\8a88		D88	n8HD-8	2	-8	
Matrix Spike (B3L0069-MS1)		**Source: 3112171-01**		*Prepared & Analyzed: 12/03/13*						
. Ov l lye, SoR?L	8\8a8	8\8D8	l p7C	8\8a88	x8\8D8	D88	n8HD-8			
Matrix Spike Dup (B3L0069-MSD1)		**Source: 3112171-01**		*Prepared & Analyzed: 12/03/13*						
. Ov l lye, SoR?L	8\8a8	8\8D8	l p7C	8\8a88	x8\8D8	D88	n8HD-8	8	-8	
Batch B3L0095 - NO PREP										
Blank (B3L0095-BL_1)				*Prepared & Analyzed: 12/03/13*						
SoR?L(rpvl lc . vrj ol	xD\88	D\88	l p7C							

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Al vlC¢	ResulP	RedorfB p Ct lP	0 l B	J dlW¢ Ce1eL	J ource ResulP	%RE.	%RE. Ct lB	RGB	RGB Ct lP	NoR¢s
Batch B3L0095 - NO PREP										
LCS (B3L0095-BS1)				*Prepared & Analyzed: 12/03/13*						
SoRvL(rpvl lc . vrj ol	9'99	D'88	l p7C	D8'8		D88	n8HD- 8			
LCS Dup (B3L0095-BSD1)				*Prepared & Analyzed: 12/03/13*						
SoRvL(rpvl lc . vrj ol	9'9/	D'88	l p7C	D8'8		D88	n8HD- 8	8Y	- 8	
Matrix Spike (B3L0095-MS1)		**Source: 3111971-01**		*Prepared & Prepared & Analyzed: 12/03/13*						
SoRvL(rpvl lc . vrj ol	D8Y	D'88	l p7C	D8'8	8'295	9/	n8HD- 8			
Matrix Spike Dup (B3L0095-MSD1)		**Source: 3111971-01**		*Prepared & Analyzed: 12/03/13*						
SoRvL(rpvl lc . vrj ol	D8Y	D'88	l p7C	D8'8	8'295	9/	n8HD- 8	8	- 8	
Batch B3L0101 - NO PREP										
Blank (B3L0101-BL_1)				*Prepared & Analyzed: 12/03/13*						
Fluorlye	x8'D8	8'D8	l p7C							
Blank (B3L0101-BL_2)				*Prepared & Analyzed: 12/03/13*						
Fluorlye	x8'D8	8'D8	l p7C							
LCS (B3L0101-BS1)				*Prepared & Analyzed: 12/03/13*						
Fluorlye	- '8/	8'D8	l p7C	- '88		D85	98HDD8			
LCS Dup (B3L0101-BSD1)				*Prepared & Analyzed: 12/03/13*						
Fluorlye	- '8/	8'D8	l p7C	- '88		D85	98HDD8	8	- 8	
Matrix Spike (B3L0101-MS1)		**Source: 3111943-01**		*Prepared & Analyzed: 12/03/13*						
Fluorlye	5'5n	8'D8	l p7C	- '88	D'2-	9n	98HDD8			

Vellow gvcW¢PBrtlll p J er1lce	GromecP New source	
59- - E 0 I bierstPOBrYJ utPekD	GromecPNul j er: New J ource 4 elL- . RS DD7 / 7 8D5	**Reported:**
Gi oel lt, Az na852	GromecPZ vl vper: goi l Srvut	D- 7 / 7D5 89:2D

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Al vlCPe	ResulP	RedorPlt p Ct lP	0 l lPs	J dlW¢ Ce1eL	J ource ResulP	%RE.	%RE. Ct lPs	RGB	RGB Ct lP	NoPes
Batch B3L0101 - NO PREP										
Matrix Spike (B3L0101-MS2)		**Source: 3111944-05**		*Prepared & Analyzed: 12/03/13*						
Fluorlye	- \92	8\D8	l p7C	- \68	8\99	9n	98HDD8			
Matrix Spike Dup (B3L0101-MSD1)		**Source: 3111943-01**		*Prepared & Analyzed: 12/03/13*						
Fluorlye	5\5n	8\D8	l p7C	- \68	D\2-	9n	98HDD8	8	- 8	
Matrix Spike Dup (B3L0101-MSD2)		**Source: 3111944-05**		*Prepared & Analyzed: 12/03/13*						
Fluorlye	- \9a	8\D8	l p7C	- \68	8\99	9n	98HDD8	8Y	- 8	
Batch B3L0188 - NO PREP										
Blank (B3L0188-BL_1)				*Prepared & Analyzed: 12/06/13*						
. i lorlye	xa\8	a\8	l p7C							
JulDVPe	xa\8	a\8	l p7C							
Blank (B3L0188-BL_2)				*Prepared & Analyzed: 12/06/13*						
. i lorlye	xa\8	a\8	l p7C							
JulDVPe	xa\8	a\8	l p7C							
LCS (B3L0188-BS1)				*Prepared & Analyzed: 12/06/13*						
. i lorlye	9Y	a\8	l p7C	D8\8		9/	98HDD8			
JulDVPe	D9\n	a\8	l p7C	- 8\8		99	98HDD8			
LCS Dup (B3L0188-BSD1)				*Prepared & Analyzed: 12/06/13*						
. i lorlye	9Y	a\8	l p7C	D8\8		9/	98HDD8	8\n	- 8	
JulDVPe	D9\5	a\8	l p7C	- 8\8		9)	98HDD8	5	- 8	
Matrix Spike (B3L0188-MS1)		**Source: 3120168-03**		*Prepared & Analyzed: 12/06/13*						
. i lorlye	D2\5	a\8	l p7C	D8\8	2\2	99	98HDD8			
JulDVPe	5D\n	a\8	l p7C	- 8\8	DD\5	D8-	98HDD8			

Vellow gvcW¢PBrtlb p J er1lce	GromecP New source	
59- - E 0 I bierstPOBrYJ ut¢ekD	GromecPNul j er: New J ource 4 elL- . RS DD7- / 7- 8D5	**Reported:**
Gi oel lt, Az na852	GromecPZ vl vper: goi l Srvut	D- 7- / 7D5 89:2D

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Al vtCre	ResultP	Redorfl p Ct lP	0 I lS	J dlW¢ Ce1eL	J ource ResultP	%RE.	%RE. Ct lS	RGB	RGB Ct lP	NoRes
Batch B3L0188 - NO PREP										
Matrix Spike (B3L0188-MS2)		**Source: 3120543-01**		*Prepared & Analyzed: 12/06/13*						
. i lorbye	D- YD	a'8	I p7C	D8'8	- Y	99	98HDD8			
J ulLVRe	- 8'5	a'8	I p7C	- 8'8	xa'8	D8-	98HDD8			
Matrix Spike Dup (B3L0188-MSD1)		**Source: 3120168-03**		*Prepared & Analyzed: 12/06/13*						
. i lorbye	D5'9	a'8	I p7C	D8'8	2'2	9a	98HDD8	5	- 8	
J ulLVRe	55'D	a'8	I p7C	- 8'8	DD'5	D89	98HDD8	2	- 8	
Matrix Spike Dup (B3L0188-MSD2)		**Source: 3120543-01**		*Prepared & Analyzed: 12/06/13*						
. i lorbye	D- Y	a'8	I p7C	D8'8	- Y	D88	98HDD8	8'n	- 8	
J ulLVRe	- 8'9	a'8	I p7C	- 8'8	xa'8	D82	98HDD8	5	- 8	
Batch B3L0192 - NO PREP										
Blank (B3L0192-BL_1)				*Prepared & Analyzed: 12/06/13*						
NtPvRe + NtPbe vs N	x8Y8	8Y8	I p7C							
Blank (B3L0192-BL_2)				*Prepared & Analyzed: 12/06/13*						
NtPvRe + NtPbe vs N	x8Y8	8Y8	I p7C							
Blank (B3L0192-BL_3)				*Prepared & Analyzed: 12/06/13*						
NtPvRe + NtPbe vs N	x8Y8	8Y8	I p7C							
LCS (B3L0192-BS1)				*Prepared & Analyzed: 12/06/13*						
NtPvRe + NtPbe vs N	D8'5	8Y8	I p7C	D8'8		D85	98HDD8			
LCS (B3L0192-BS2)				*Prepared & Analyzed: 12/06/13*						
NtPvRe + NtPbe vs N	D8'2	8Y8	I p7C	D8'8		D82	98HDD8			

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Al vlCe	ResulP	Redorf p Cb lP	0 l lS	J dlW Ce1eL	J ource ResulP	%RE.	%RE. Cb lS	RGB	RGB Cb lP	NoRes
Batch B3L0192 - NO PREP										
LCS Dup (B3L0192-BSD1)				*Prepared & Analyzed: 12/06/13*						
NlPvRe + NlPlSe vs N	D8Y5	8Y-8	l p7C	D8Y8		D85	98HDD8	8	-8	
LCS Dup (B3L0192-BSD2)				*Prepared & Analyzed: 12/06/13*						
NlPvRe + NlPlSe vs N	D8Y2	8Y-8	l p7C	D8Y8		D82	98HDD8	8	-8	
Matrix Spike (B3L0192-MS1)	**Source: 3120119-01**			*Prepared & Analyzed: 12/06/13*						
NlPvRe + NlPlSe vs N	D-Y5	8Y-8	l p7C	D8Y8	DY D	D8)	n8HD-8			
Matrix Spike (B3L0192-MS2)	**Source: 3120119-03**			*Prepared & Analyzed: 12/06/13*						
NlPvRe + NlPlSe vs N	D5Y	8Y-8	l p7C	D8Y8	5YD8	D8)	n8HD-8			
Matrix Spike (B3L0192-MS3)	**Source: 3120346-01**			*Prepared & Analyzed: 12/06/13*						
NlPvRe + NlPlSe vs N	D-Y9	8Y-8	l p7C	D8Y8	DY99	D89	n8HD-8			
Matrix Spike Dup (B3L0192-MSD1)	**Source: 3120119-01**			*Prepared & Analyzed: 12/06/13*						
NlPvRe + NlPlSe vs N	D-Y2	8Y-8	l p7C	D8Y8	DY D	D8/	n8HD-8	8Yn	-8	
Matrix Spike Dup (B3L0192-MSD2)	**Source: 3120119-03**			*Prepared & Analyzed: 12/06/13*						
NlPvRe + NlPlSe vs N	D5Y9	8Y-8	l p7C	D8Y8	5YD8	D8n	n8HD-8	D	-8	
Matrix Spike Dup (B3L0192-MSD3)	**Source: 3120346-01**			*Prepared & Analyzed: 12/06/13*						
NlPvRe + NlPlSe vs N	D5YD	8Y-8	l p7C	D8Y8	DY99	DDD	n8HD-8	-	-8	

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Al vlCPe	ResulP	RedorPlt p Ct lP	0 l lPS	J dlW¢ Ce1eL	J ource ResulP	%RE.	%RE. Ct lPS	RGB	RGB Ct lP	NoPes
Batch B3L0053 - Default Prep VOC										
Blank (B3L0053-BL_ 1)				*Prepared & Analyzed: 12/02/13*						
D,D,DHSrlcl loroeP vl e	x8'\888a	8'\888a	l p7C							
D,D,- HSrlcl loroeP vl e	x8'\888a	8'\888a	l p7C							
D,DHBlcl loroeP el e	x8'\888a	8'\888a	l p7C							
D,- ,2HSrlcl loroj el hel e	x8'\888a	8'\888a	l p7C							
D,- HBlcl loroj el hel e	x8'\888a	8'\888a	l p7C							
D,- HBlcl loroeP vl e	x8'\888a	8'\888a	l p7C							
D,- HBlcl lorodrodvl e	x8'\888a	8'\888a	l p7C							
D,2HBlcl loroj el hel e	x8'\888a	8'\888a	l p7C							
" el hel e	x8'\888a	8'\888a	l p7C							
" rol oylcl lorol eP vl e	x8'\888a	8'\888a	l p7C							
" rol oTbrl	x8'\888a	8'\888a	l p7C							
. vrj ol PeP vcl lorlye	x8'\888a	8'\888a	l p7C							
. i loroj el hel e	x8'\888a	8'\888a	l p7C							
. i loroTbrl	x8'\888a	8'\888a	l p7C							
clsHD,- HBlcl loroeP Clel e	x8'\888a	8'\888a	l p7C							
Blj rol oci lorol eP vl e	x8'\888a	8'\888a	l p7C							
Blcl lorol eP vl e	x8'\888a	8'\888a	l p7C							
EP Clj el hel e	x8'\888a	8'\888a	l p7C							
l ,dHKClel e	x8'\888a	8'\888a	l p7C							
oHKClel e	x8'\888a	8'\888a	l p7C							
J PClel e	x8'\888a	8'\888a	l p7C							
SeP vcl loroeP el e	x8'\888a	8'\888a	l p7C							
Soluel e	x8'\888a	8'\888a	l p7C							
SoPvLSKZ s	x8'\888a	8'\888a	l p7C							
PvI sHD,- HBlcl loroeP el e	x8'\888a	8'\888a	l p7C							
Srlcl loroeP el e	x8'\888a	8'\888a	l p7C							
#lt ClLcl lorlye	x8'\888a	8'\888a	l p7C							
XClel es 6PoPvlLM	x8'\888a	8'\888a	l p7C							

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Al vlCPe	ResulP	RedorPlt p Ct lP	0 l lPS	J dlW¢ Ce1eL	J ource ResulP	%RE.	%RE. Ct lPS	RGB	RGB Ct lP	NoPes
Batch B3L0053 - Default Prep VOC										
LCS (B3L0053-BS1)				*Prepared & Analyzed: 12/02/13*						
D,D,DHSrlcl loroeP vl e	8'\68- D	8'\888a	l p7C	8'\68- 88		D8a	/ 8HD58			
D,D,- HSrlcl loroeP vl e	8'\68- D	8'\888a	l p7C	8'\68- 88		D82	/ 8HD58			
D,DHBlcl loroeP el e	8'\68- 8	8'\888a	l p7C	8'\68- 88		D8D	/ 8HD58			
D,- ,2HSrlcl loroj el hel e	8'\68- 8	8'\888a	l p7C	8'\68- 88		D88	/ 8HD58			
D,- HBlcl loroj el hel e	8'\68- 8	8'\888a	l p7C	8'\68- 88		99	/ 8HD58			
D,- HBlcl loroeP vl e	8'\68- 8	8'\888a	l p7C	8'\68- 88		D8-	/ 8HD58			
D,- HBlcl lorodrodvl e	8'\68- D	8'\888a	l p7C	8'\68- 88		D85	/ 8HD58			
D,2HBlcl loroj el hel e	8'\68- 8	8'\888a	l p7C	8'\68- 88		D88	/ 8HD58			
" el hel e	8'\68- 8	8'\888a	l p7C	8'\68- 88		D8-	/ 8HD58			
" rol oylcl lorol eP vl e	8'\68- 8	8'\888a	l p7C	8'\68- 88		D8-	/ 8HD58			
" rol oTbrl	8'\68- 8	8'\888a	l p7C	8'\68- 88		D8-	/ 8HD58			
. vrj ol PeP vcl lorlye	8'\68- D	8'\888a	l p7C	8'\68- 88		D85	/ 8HD58			
. i loroj el hel e	8'\68- 8	8'\888a	l p7C	8'\68- 88		D88	/ 8HD58			
. i loroTbrl	8'\68- D	8'\888a	l p7C	8'\68- 88		D82	/ 8HD58			
clsHD,- HBlcl loroeP Clel e	8'\68- 8	8'\888a	l p7C	8'\68- 88		D8D	/ 8HD58			
Blj rol oci lorol eP vl e	8'\68- 8	8'\888a	l p7C	8'\68- 88		D88	/ 8HD58			
Blcl lorol eP vl e	8'\68- D	8'\888a	l p7C	8'\68- 88		D8a	/ 8HD58			
EP Cj el hel e	8'\68Dn	8'\888a	l p7C	8'\68- 88		9D	/ 8HD58			
l ,dHKClel e	8'\685n	8'\888a	l p7C	8'\68288		9a	/ 8HD58			
oHKClel e	8'\68Dn	8'\888a	l p7C	8'\68- 88		9-	/ 8HD58			
J PClel e	8'\68Dn	8'\888a	l p7C	8'\68- 88		98	/ 8HD58			
SeP vcl loroeP el e	8'\68- D	8'\888a	l p7C	8'\68- 88		D82	/ 8HD58			
Soluel e	8'\68Dn	8'\888a	l p7C	8'\68- 88		9-	/ 8HD58			
SoP vLSKZ s	8'\68n-	8'\888a	l p7C	8'\68n88		D8-	8H 88			
P vl sHD,- HBlcl loroeP el e	8'\68- D	8'\888a	l p7C	8'\68- 88		D8a	/ 8HD58			
Srlcl loroeP el e	8'\68- 8	8'\888a	l p7C	8'\68- 88		D8-	/ 8HD58			
#lt CLcl lorlye	8'\68- 8	8'\888a	l p7C	8'\68- 88		D8-	/ 8HD58			
XClel es 6PoP vlLM	8'\68a)	8'\888a	l p7C	8'\68) 88		92	8H 88			

Vellow gvcW¢PBrtlb p J er1lce	GromecP New source	
59- - E 0 I bterstPOBrYJ utPekD	GromecPNul j er: New J ource 4 elL- . RS DD7- / 7- 8D5	**Reported:**
Gi oel lt , Az na852	GromecPZ vl vper: goi l Srvut	D- 7- / 7D5 89:2D

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Al vlCPe	ResulP	RedorPb p Ct bP	0 I bPs	J dlW¢ Ce1eL	J ource ResulP	%RE.	%RE. Ct bPs	RGB	RGB Ct bP	NoPes
Batch B3L0053 - Default Prep VOC										
LCS Dup (B3L0053-BSD1)				*Prepared & Analyzed: 12/02/13*						
D,D,DHSrtci loroeP vl e	8'\68- D	8'\688a	I p7C	8'\68- 88		D82	/ 8HD58	D	- 8	
D,D,- HSrtci loroeP vl e	8'\68- -	8'\688a	I p7C	8'\68- 88		DD-	/ 8HD58	/	- 8	
D,DHBtci loroeP el e	8'\68- D	8'\688a	I p7C	8'\68- 88		D82	/ 8HD58	5	- 8	
D,- ,2HSrtci loroj el hel e	8'\68Da	8'\688a	I p7C	8'\68- 88		/ /	/ 8HD58	- a	- 8	R/
D,- HBtci loroj el hel e	8'\68- 8	8'\688a	I p7C	8'\68- 88		9n	/ 8HD58	D	- 8	
D,- HBtci loroeP vl e	8'\68- 8	8'\688a	I p7C	8'\68- 88		9n	/ 8HD58	5	- 8	
D,- HBtci lorodrodvl e	8'\68- 8	8'\688a	I p7C	8'\68- 88		D8D	/ 8HD58	-	- 8	
D,2HBtci loroj el hel e	8'\68- D	8'\688a	I p7C	8'\68- 88		D85	/ 8HD58	5	- 8	
" el hel e	8'\68- 8	8'\688a	I p7C	8'\68- 88		D8-	/ 8HD58	8	- 8	
" rol oytci lorol eP vl e	8'\68D9	8'\688a	I p7C	8'\68- 88		9/	/ 8HD58	)	- 8	
" rol oTbrl	8'\68- D	8'\688a	I p7C	8'\68- 88		D8/	/ 8HD58	a	- 8	
. vrj ol PePvci lorbye	8'\68- -	8'\688a	I p7C	8'\68- 88		D8n	/ 8HD58	a	- 8	
. i loroj el hel e	8'\68- 8	8'\688a	I p7C	8'\68- 88		D8-	/ 8HD58	D	- 8	
. i loroTbrl	8'\68- D	8'\688a	I p7C	8'\68- 88		D82	/ 8HD58	D	- 8	
ctsHD,- HBtci loroeP Ctel e	8'\68- 8	8'\688a	I p7C	8'\68- 88		D8-	/ 8HD58	8'\a	- 8	
Bbj rol oci lorol eP vl e	8'\68- -	8'\688a	I p7C	8'\68- 88		DD8	/ 8HD58	D8	- 8	
Btci lorol eP vl e	8'\68- D	8'\688a	I p7C	8'\68- 88		D8a	/ 8HD58	8	- 8	
EP Cj el hel e	8'\68D/	8'\688a	I p7C	8'\68- 88		n/	/ 8HD58	a	- 8	
I ,dHKCtel e	8'\685/	8'\688a	I p7C	8'\68288		95	/ 8HD58	-	- 8	
oHKCtel e	8'\68D/	8'\688a	I p7C	8'\68- 88		n/	/ 8HD58	)	- 8	
J PCrel e	8'\68Dn	8'\688a	I p7C	8'\68- 88		nn	/ 8HD58	5	- 8	
SePvci loroeP el e	8'\68- -	8'\688a	I p7C	8'\68- 88		DD-	/ 8HD58	/	- 8	
Soluel e	8'\68Dn	8'\688a	I p7C	8'\68- 88		98	/ 8HD58	-	- 8	
SoPvLSKZ s	8'\68n2	8'\688a	I p7C	8'\68n88		D8a	8H 88	5	- 88	
PvI sHD,- HBtci loroeP el e	8'\68- 8	8'\688a	I p7C	8'\68- 88		D8-	/ 8HD58	5	- 8	
Srtci loroeP el e	8'\68- D	8'\688a	I p7C	8'\68- 88		D85	/ 8HD58	D	- 8	
#tb CLci lorbye	8'\68- 8	8'\688a	I p7C	8'\68- 88		D8D	/ 8HD58	D	- 8	
XCtel es 6PoPvtM	8'\68aa	8'\688a	I p7C	8'\68) 88		9D	8H 88	5	- 88	

Semi-Volatile Organic Compounds - Quality Control

Legend Technical Services of Arizona, Inc.

Al vlCe	ResulP	Redorf p Cb lP	0 l lS	J dlW Ce1eL	J ource ResulP	%RE.	%RE. Cb lS	RGB	RGB Cb lP	NoRes
Batch B3L0173 - Default Prep GC-Semi										
Blank (B3L0173-BL_1)				*Prepared & Analyzed: 12/05/13*						
5HKOyrot Ocvrj oTurvl	x8'688a	8'688a	l p7C							
Alytcvrj	x8'688a	8'688a	l p7C							
Alytcvrj sulbl e	x8'688n	8'688n	l p7C							
Alytcvrj sulbt lye	x8'688a	8'688a	l p7C							
. vrj vrCL	x8'688a	8'688a	l p7C							
. vrj oTurvl	x8'6889	8'6889	l p7C							
Z eP ol CL	x8'688a	8'688a	l p7C							
(t vl CL	x8'68- 8	8'68- 8	l p7C							
LCS (B3L0173-BS1)				*Prepared & Analyzed: 12/05/13*						
5HKOyrot Ocvrj oTurvl	8'68- 8	8'688a	l p7C	8'68- 88	D8D	/ 8HD58				
Alytcvrj	8'68- 8	8'688a	l p7C	8'68- 88	D8-	/ 8HD58				
Alytcvrj sulbl e	8'68- 8	8'688n	l p7C	8'68- 88	D8-	/ 8HD58				
Alytcvrj sulbt lye	8'68- D	8'688a	l p7C	8'68- 88	D85	/ 8HD58				
. vrj vrCL	8'68- 8	8'688a	l p7C	8'68- 88	D8-	/ 8HD58				
. vrj oTurvl	8'68- 8	8'6889	l p7C	8'68- 88	D8-	/ 8HD58				
Z eP ol CL	8'68- 8	8'688a	l p7C	8'68- 88	D88	/ 8HD58				
(t vl CL	8'68- D	8'68- 8	l p7C	8'68- 88	D8)	/ 8HD58				
LCS Dup (B3L0173-BSD1)				*Prepared & Analyzed: 12/05/13*						
5HKOyrot Ocvrj oTurvl	8'68- 8	8'688a	l p7C	8'68- 88	D8D	/ 8HD58	8	- 8		
Alytcvrj	8'68- 8	8'688a	l p7C	8'68- 88	D8D	/ 8HD58	8'5	- 8		
Alytcvrj sulbl e	8'68- 8	8'688n	l p7C	8'68- 88	D8D	/ 8HD58	8'5	- 8		
Alytcvrj sulbt lye	8'68- D	8'688a	l p7C	8'68- 88	D85	/ 8HD58	8'D	- 8		
. vrj vrCL	8'68- 8	8'688a	l p7C	8'68- 88	D8D	/ 8HD58	8'5	- 8		
. vrj oTurvl	8'68- 8	8'6889	l p7C	8'68- 88	D8-	/ 8HD58	8'6a	- 8		
Z eP ol CL	8'68- 8	8'688a	l p7C	8'68- 88	D88	/ 8HD58	8'5	- 8		
(t vl CL	8'68- -	8'68- 8	l p7C	8'68- 88	D8n	/ 8HD58	D	- 8		

Semi-Volatile Organic Compounds - Quality Control

Legend Technical Services of Arizona, Inc.

Al vtOre	ResultP	Redorfl p Ct lP	0 l lS	J dlW¢ Ce1eL	J ource ResultP	%RE.	%RE. Ct lS	RGB	RGB Ct lP	NoRes
Batch B3L0173 - Default Prep GC-Semi										
Matrix Spike (B3L0173-MS1)		**Source: 3112171-01**		*Prepared & Analyzed: 12/05/13*						
5HKOyrot Ocvrj oTurvl	8'\88- 8	8'\888a	l p7C	8'\88- 88	x8'\888a	D88	/ 8HD58			
Alytocvrj	8'\88- 8	8'\888a	l p7C	8'\88- 88	x8'\888a	D88	/ 8HD58			
Alytocvrj sulTbl e	8'\88- 8	8'\888n	l p7C	8'\88- 88	x8'\888n	D8D	/ 8HD58			
Alytocvrj sulTbt tye	8'\88- 8	8'\888a	l p7C	8'\88- 88	x8'\888a	D8-	/ 8HD58			
. vrj vrOL	8'\88- 8	8'\888a	l p7C	8'\88- 88	x8'\888a	D8D	/ 8HD58			
. vrj oTurvl	8'\88- 8	8'\8889	l p7C	8'\88- 88	x8'\8889	D8D	/ 8HD58			
Z eP ol OL	8'\88- 8	8'\888a	l p7C	8'\88- 88	x8'\888a	9n	/ 8HD58			
(t vl OL	8'\88- D	8'\88- 8	l p7C	8'\88- 88	x8'\88- 8	D85	/ 8HD58			
Matrix Spike Dup (B3L0173-MSD1)		**Source: 3112171-01**		*Prepared: 12/05/13 Analyzed: 12/06/13*						
5HKOyrot Ocvrj oTurvl	8'\88- 8	8'\888a	l p7C	8'\88- 88	x8'\888a	D88	/ 8HD58	8'Yn	58	
Alytocvrj	8'\88- 8	8'\888a	l p7C	8'\88- 88	x8'\888a	99	/ 8HD58	8'Yn	58	
Alytocvrj sulTbl e	8'\88- 8	8'\888n	l p7C	8'\88- 88	x8'\888n	D8D	/ 8HD58	8'Y	58	
Alytocvrj sulTbt tye	8'\88- 8	8'\888a	l p7C	8'\88- 88	x8'\888a	D8-	/ 8HD58	8'YD	58	
. vrj vrOL	8'\88- 8	8'\888a	l p7C	8'\88- 88	x8'\888a	D8D	/ 8HD58	8'Ya	58	
. vrj oTurvl	8'\88- 8	8'\8889	l p7C	8'\88- 88	x8'\8889	D88	/ 8HD58	8'Ya	58	
Z eP ol OL	8'\88- 8	8'\888a	l p7C	8'\88- 88	x8'\888a	9n	/ 8HD58	8'Y2	58	
(t vl OL	8'\88- D	8'\88- 8	l p7C	8'\88- 88	x8'\88- 8	D85	/ 8HD58	8'Y	58	

Herbicides - Quality Control

Legend Technical Services of Arizona, Inc.

Al vlCte	ResulP	Redorfl p Ct lP	0 l lS	J dlW¢ Ce1eL	J ource ResulP	%RE.	%RE. Ct lS	RGB	RGB Ct lP	NoRes
Batch B3_0581 - Default Prep GC-Semi										
Blank (B3_0581-BL_1)				*Prepared: 11/21/13 Analyzed: 12/03/13*						
3 lQdi osvRe	x8\68)	8\68)	l p7C							
LCS (B3_0581-BS1)				*Prepared & Analyzed: 12/03/13*						
3 lQdi osvRe	8\8a2	8\68)	l p7C	8\8a88		D8n	/ 8HD58			
LCS Dup (B3_0581-BSD1)				*Prepared & Analyzed: 12/03/13*						
3 lQdi osvRe	8\82n	8\68)	l p7C	8\8a88		9/	/ 8HD58	DD	- 8	
Matrix Spike (B3_0581-MS1)		**Source: 3112171-01**		*Prepared & Analyzed: 12/03/13*						
3 lQdi osvRe	8\8a5	8\68)	l p7C	8\8a88	x8\68)	D8)	/ 8HD58			
Matrix Spike Dup (B3_0581-MSD1)		**Source: 3112171-01**		*Prepared & Analyzed: 12/03/13*						
3 lQdi osvRe	8\8a2	8\68)	l p7C	8\8a88	x8\68)	D8/	/ 8HD58	D	- 8	

EPA 504.1 - Quality Control

UL#AZ0432

Al vlC¢	ResulP	Redorf¢ p Ct¢ lP	0 l ¢	J dl¢ Ce1eL	J ource ResulP	%RE.	%RE. Ct¢ l¢	RGB	RGB Ct¢ lP	No¢s
Batch 186200 - MLLE										
Blank (2940316)		**Source: 42442**		*Prepared & Analyzed: 12/05/13*						
D,- H¢ lj rol oH5H¢ i lorodrodvl e ¢B" . GM	NB	8\¢8888-	l p7C				H			
D,- H¢ lj rol oeP vl e ¢B" M	NB	8\¢8888D	l p7C				H			
Reference (2940317)		**Source: 42442**		*Prepared & Analyzed: 12/05/13*						
D,- H¢ lj rol oH5H¢ i lorodrodvl e ¢B" . GM	8\¢888-	8\¢8888-	l p7C	8\¢8888-		D8n	) 8HD28			
D,- H¢ lj rol oeP vl e ¢B" M	8\¢888-	8\¢8888D	l p7C	8\¢8888-		DDn	) 8HD28			
Reference (2940318)		**Source: 42442**		*Prepared & Analyzed: 12/05/13*						
D,- H¢ lj rol oH5H¢ i lorodrodvl e ¢B" . GM	8\¢888DD	8\¢8888-	l p7C	8\¢888D		D8n	/ 8HD58			
D,- H¢ lj rol oeP vl e ¢B" M	8\¢888D	8\¢8888D	l p7C	8\¢888D		D8-	/ 8HD58			
Reference (2940319)		**Source: 42442**		*Prepared & Analyzed: 12/05/13*						
D,- H¢ lj rol oH5H¢ i lorodrodvl e ¢B" . GM	8\¢888D-	8\¢8888-	l p7C	8\¢888D		DDn	/ 8HD58			
D,- H¢ lj rol oeP vl e ¢B" M	8\¢888D	8\¢8888D	l p7C	8\¢888D		D85	/ 8HD58			
LCS (2940320)		**Source: 42442**		*Prepared & Analyzed: 12/05/13*						
D,- H¢ lj rol oH5H¢ i lorodrodvl e ¢B" . GM	8\¢888- a	8\¢8888-	l p7C	8\¢888- a/		9)	/ 8HD58			
D,- H¢ lj rol oeP vl e ¢B" M	8\¢888- D	8\¢8888D	l p7C	8\¢888- a/		n5	/ 8HD58			
Matrix Spike (2940323)		**Source: 42442**		*Prepared & Analyzed: 12/05/13*						
D,- H¢ lj rol oH5H¢ i lorodrodvl e ¢B" . GM	8\¢888D-	8\¢8888-	l p7C	8\¢888D	x Z RC	DDn	) aHD5a			
D,- H¢ lj rol oeP vl e ¢B" M	8\¢888D	8\¢8888D	l p7C	8\¢888D	x Z RC	D8D	) aHD5a			

EPA 505 - Quality Control

UL#AZ0432

Al vlCe	ResulP	RedorfB p Ct lP	0 l B	J dlW Ce1eL	J ource ResulP	%RE.	%RE. Ct lB	RGB	RGB Ct lP	NoRes
Batch 186344 - MLLE										
Blank (2942393)		**Source: 42481**		*Prepared & Analyzed: 12/10/13*						
Aroclor D8D)	NB	8\888n	l p7C				H			
Aroclor D- - D	NB	8\8-	l p7C				H			
Aroclor D- 5-	NB	8\888a	l p7C				H			
Aroclor D- 2-	NB	8\8885	l p7C				H			
Aroclor D- 2n	NB	8\888D	l p7C				H			
Aroclor D- a2	NB	8\888D	l p7C				H			
Aroclor D-) 8	NB	8\888-	l p7C				H			
. i loryvl e	NB	8\888-	l p7C				H			
Sot vdi el e	NB	8\88D	l p7C				H			
LCS (2942394)		**Source: 42481**		*Prepared & Analyzed: 12/10/13*						
. i loryvl e	8\888-	8\888-	l p7C	8\888D		- 5D	- - H 88			N2
LCS (2942395)		**Source: 42481**		*Prepared & Analyzed: 12/10/13*						
Sot vdi el e	8\88D-	8\88D	l p7C	8\88D		D- D	aaHD29			
Reference (2942396)		**Source: 42481**		*Prepared & Analyzed: 12/10/13*						
. i loryvl e	8\88D)	8\888-	l p7C	8\88-		n8	/ 8HD58			
Reference (2942397)		**Source: 42481**		*Prepared & Analyzed: 12/10/13*						
Sot vdi el e	8\8859	8\88D	l p7C	8\882		9/	/ 8HD58			
Reference (2942398)		**Source: 42481**		*Prepared: 12/10/13 Analyzed: 12/11/13*						
Aroclor D- - D	NB	8\8-	l p7C	8\88-		n/	/ 8HD58			
Matrix Spike (2942428)		**Source: 42481**		*Prepared: 12/10/13 Analyzed: 12/11/13*						
Aroclor D- - D	NB	8\8-	l p7C	8\88-	x Z RC	D8-	) aHD5a			

EPA 515.3 - Quality Control

UL#AZ0432

Al vlC¢	ResulP	RedorflB p Ct lIP	0 I lI¢	J dlW¢ Ce1eL	J ource ResulP	%RE.	%RE. Ct lI¢	RGB	RGB Ct lIP	NoR¢s
Batch 186237 - MLLE										
Matrix Spike (2940080)		**Source: 42437**		*Prepared: 12/05/13 Analyzed: 12/06/13*						
- ,2,alI$G 6J lt1et M	8\88D)	8\888-	I p7C	8\88Da	x Z RC	D8)	/ 8HD58			
- ,2HB	8\88- 9	8\888D	I p7C	8\885	x Z RC	9n	/ 8HD58			
Bvlvdol	8\885D	8\88D	I p7C	8\885	x Z RC	D82	/ 8HD58			
Bltcvl j v	8\885	8\888D	I p7C	8\885	x Z RC	D8D	/ 8HD58			
Blt osej	8\885D	8\888-	I p7C	8\885	x Z RC	D85	/ 8HD58			
Gel R¢ci lorodi el oL	8\888a5	8\88882	I p7C	8\888)	x Z RC	n9	/ 8HD58			
Gtclorvl	8\88D)	8\888D	I p7C	8\88Da	x Z RC	D89	/ 8HD58			
Matrix Spike Dup (2940081)		**Source: 42437**		*Prepared: 12/05/13 Analyzed: 12/06/13*						
- ,2,alI$G 6J lt1et M	8\88D)	8\888-	I p7C	8\88Da	x Z RC	DD8	/ 8HD58			
- ,2HB	8\885D	8\888D	I p7C	8\885	x Z RC	D82	/ 8HD58			
Bvlvdol	8\8855	8\88D	I p7C	8\885	x Z RC	D89	/ 8HD58			
Bltcvl j v	8\885-	8\888D	I p7C	8\885	x Z RC	D8n	/ 8HD58			
Blt osej	8\885-	8\888-	I p7C	8\885	x Z RC	D8/	/ 8HD58			
Gel R¢ci lorodi el oL	8\888aa	8\88882	I p7C	8\888)	x Z RC	9D	/ 8HD58			
Gtclorvl	8\88D/	8\888D	I p7C	8\88Da	x Z RC	DD)	/ 8HD58			
Matrix Spike (2940082)		**Source: 42437**		*Prepared: 12/05/13 Analyzed: 12/06/13*						
- ,2,alI$G 6J lt1et M	8\88D2	8\888-	I p7C	8\88Da	x Z RC	9-	/ 8HD58			
- ,2HB	8\88-)	8\888D	I p7C	8\885	x Z RC	n/	/ 8HD58			
Bvlvdol	8\88- n	8\88D	I p7C	8\885	x Z RC	9-	/ 8HD58			
Bltcvl j v	8\88- n	8\888D	I p7C	8\885	x Z RC	9-	/ 8HD58			
Blt osej	8\88- /	8\888-	I p7C	8\885	x Z RC	9D	/ 8HD58			
Gel R¢ci lorodi el oL	8\888aa	8\88882	I p7C	8\888)	x Z RC	9-	/ 8HD58			
Gtclorvl	8\88D2	8\888D	I p7C	8\88Da	x Z RC	9a	/ 8HD58			

EPA 515.3 - Quality Control

UL#AZ0432

Al vlC¢	ResulP	RedorflB p Ct lIP	0 I lI¢	J dlW¢ Ce1eL	J ource ResulP	%RE.	%RE. Ct lI¢	RGB	RGB Ct lIP	NoR¢s
Batch 186237 - MLLE										
Reference (2940083)		**Source: 42437**		*Prepared: 12/05/13 Analyzed: 12/06/13*						
- ,2,al¢SG 6J lt1et M	8\888a	8\888-	I p7C	8\888a		D85	/ 8HD58			
- ,2H¢	8\8889	8\888D	I p7C	8\88D		n)	/ 8HD58			
Bvlvdol	NB	8\88D	I p7C	8\88D		n5	/ 8HD58			
Blcvl j v	8\88DD	8\888D	I p7C	8\88D		D89	/ 8HD58			
Blt osej	8\88DD	8\888-	I p7C	8\88D		DD-	/ 8HD58			
Gel Rvci lorodi el oL	8\888- D	8\88882	I p7C	8\888-		D8/	/ 8HD58			
Glclorvl	8\8882	8\888D	I p7C	8\888a		n2	/ 8HD58			
Reference (2940084)		**Source: 42437**		*Prepared: 12/05/13 Analyzed: 12/06/13*						
- ,2,al¢SG 6J lt1et M	8\88Da	8\888-	I p7C	8\88Da		D8D	/ 8HD58			
- ,2H¢	8\88- 9	8\888D	I p7C	8\885		9n	/ 8HD58			
Bvlvdol	8\885D	8\88D	I p7C	8\885		D8-	/ 8HD58			
Blcvl j v	8\885D	8\888D	I p7C	8\885		D8-	/ 8HD58			
Blt osej	8\885	8\888-	I p7C	8\885		D88	/ 8HD58			
Gel Rvci lorodi el oL	8\888) D	8\88882	I p7C	8\888)		D8D	/ 8HD58			
Glclorvl	8\88D)	8\888D	I p7C	8\88Da		D89	/ 8HD58			
Blank (2940093)		**Source: 42437**		*Prepared: 12/05/13 Analyzed: 12/06/13*						
- ,2,al¢SG 6J lt1et M	NB	8\888-	I p7C				H			
- ,2H¢	NB	8\888D	I p7C				H			
Bvlvdol	NB	8\88D	I p7C				H			
Blcvl j v	NB	8\888D	I p7C				H			
Blt osej	NB	8\888-	I p7C				H			
Gel Rvci lorodi el oL	NB	8\88882	I p7C				H			
Glclorvl	NB	8\888D	I p7C				H			

EPA 515.3 - Quality Control

UL#AZ0432

Al vlCe	ResulP	RedorfB p Cb lP	0 l B	J dlW Ce1eL	J ource ResulP	%RE.	%RE. Cb lB	RGB	RGB Cb lP	NoRes
Batch 186237 - MLLE										
LCS (2940095)		**Source: 42437**		*Prepared: 12/05/13 Analyzed: 12/06/13*						
- ,2,al-SG 6J lb1et M	NB	8\688-	l p7C	8\688D		D- n	2nHD2n			
- ,2HB	8\688-	8\688D	l p7C	8\688-		9n	- 2HD5n			
Blb osej	NB	8\688-	l p7C	8\688-		9/	59HD2D			
Gel Rci lorodi el oL	NB	8\88882	l p7C	8\88882		98	58HD/ D			
Glclorvl	NB	8\688D	l p7C	8\688D		nn	- 2HDa8			
Reference (2940583)		**Source: 42437**		*Prepared: 12/05/13 Analyzed: 12/06/13*						
- ,2,al-SG 6J lb1et M	8\68Da	8\688-	l p7C	8\68Da		D8D	/ 8HD58			
- ,2HB	8\68- 9	8\688D	l p7C	8\685		9n	/ 8HD58			
Bvlvdol	8\685	8\68D	l p7C	8\685		D8D	/ 8HD58			
Blcvl j v	8\685	8\688D	l p7C	8\685		D6-	/ 8HD58			
Blb osej	8\685	8\688-	l p7C	8\685		99	/ 8HD58			
Gel Rci lorodi el oL	8\688) D	8\88882	l p7C	8\688)		D8D	/ 8HD58			
Glclorvl	8\68D)	8\688D	l p7C	8\68Da		D89	/ 8HD58			

EPA 525.2 - Quality Control

UL#AZ0432

Al vlCe	ResulP	RedorPb p Cb bP	0 l bS	J dbW¢ Ce1eL	J ource ResulP	%RE.	%RE. Cb bS	RGB	RGB Cb bP	NoRes
Batch 186373 - SPE										
Matrix Spike (2936495)		**Source: 42418**		*Prepared: 12/03/13 Analyzed: 12/09/13*						
Bt6- HeP CL et CMi P vlvRe	8\68-)	8\688)	l p7C	8\68-	x Z RC	D5-	/ 8HD58			
Matrix Spike Dup (2936496)		**Source: 42418**		*Prepared: 12/03/13 Analyzed: 12/09/13*						
Bt6- HeP CL et CMi P vlvRe	8\68- 2	8\688)	l p7C	8\68-	x Z RC	D- 8	/ 8HD58			
Blank (2940347)		**Source: 42444**		*Prepared: 12/05/13 Analyzed: 12/09/13*						
Alvci lor	NB	8\688-	l p7C				H			
Alyrb	NB	8\688D	l p7C				H			
APvhb e	NB	8\688D	l p7C				H			
" el ho6vMCel e	NB	8\8888-	l p7C				H			
" uPvci lor	NB	8\688D	l p7C				H			
Bt6- HeP CL et CMylbdvRe	NB	8\688)	l p7C				H			
Bt6- HeP CL et CMi P vlvRe	NB	8\688)	l p7C				H			
Bbelyrb	NB	8\688D	l p7C				H			
El yrb	NB	8\8888D	l p7C				H			
pvl l vH K. 6Cb yvl eM	NB	8\8888-	l p7C				H			
KedPvci lor	NB	8\88882	l p7C				H			
KedPvci lor edot bye	NB	8\8888-	l p7C				H			
Ket vci loroj el hel e	NB	8\688D	l p7C				H			
Ket vci lorocCclodel Pybel e	NB	8\688D	l p7C				H			
Z ePot Cci lor	NB	8\688D	l p7C				H			
Z eRbvci lor	NB	8\688D	l p7C				H			
Z ePb uhb	NB	8\688D	l p7C				H			
Grodvci lor	NB	8\688D	l p7C				H			
J b vhb e	NB	8\8888/	l p7C				H			

EPA 525.2 - Quality Control

UL#AZ0432

Al vlCPe	ResulP	RedorPb p Cb lP	0 l bS	J dlW¢ Ce1eL	J ource ResulP	%RE.	%RE. Cb lbS	RGB	RGB Cb lP	NoRes
Batch 186373 - SPE										
LCS (2940348)		**Source: 42444**		*Prepared: 12/05/13 Analyzed: 12/09/13*						
Alvci lor	8\68-	8\888-	l p7C	8\88-		99	/ 8HD58			
Alyrlb	8\68Dn	8\888D	l p7C	8\88-		98	/ 8HD58			
APvhlb e	8\88-	8\888D	l p7C	8\88-		9n	/ 8HD58			
" el ho6vMOrel e	8\88-	8\8888-	l p7C	8\88-		99	/ 8HD58			
" uPvci lor	8\88-	8\888D	l p7C	8\88-		D88	/ 8HD58			
Blb- HeP OL et OMylblvPe	8\88- D	8\888)	l p7C	8\88-		D8/	/ 8HD58			
Blb- HeP OL et OMi P vlvPe	8\88- -	8\888)	l p7C	8\88-		DDD	/ 8HD58			
Blblyrlb	8\88-	8\888D	l p7C	8\88-		D88	/ 8HD58			
El yrlb	8\88- 5	8\8888D	l p7C	8\88-		DD/	/ 8HD58			
pvl l vH K. 6Cb yvl eM	8\88D9	8\8888-	l p7C	8\88-		9)	/ 8HD58			
KedPvci lor	8\88Dn	8\88882	l p7C	8\88-		9-	/ 8HD58			
KedPvci lor edot bye	8\88-	8\8888-	l p7C	8\88-		99	/ 8HD58			
Ket vci loroj el hel e	8\88D9	8\888D	l p7C	8\88-		95	/ 8HD58			
Ket vci lorocOclodel Pvylel e	8\88D)	8\888D	l p7C	8\88-		n8	/ 8HD58			
Z ePl ot Oci lor	8\88- 2	8\888D	l p7C	8\88-		D- D	/ 8HD58			
Z ePblvci lor	8\88-	8\888D	l p7C	8\88-		D8D	/ 8HD58			
Z ePlb uhlb	8\88-	8\888D	l p7C	8\88-		9n	/ 8HD58			
Grodvci lor	8\88-	8\888D	l p7C	8\88-		D8-	/ 8HD58			
J lb vhlb e	8\88-	8\8888/	l p7C	8\88-		D88	/ 8HD58			
LCS (2940350)		**Source: 42444**		*Prepared: 12/05/13 Analyzed: 12/10/13*						
Alvci lor	NB	8\888-	l p7C	8\888D		9D	)) HD- -			
APvhlb e	NB	8\888D	l p7C	8\888D		n5	/ 5HD5n			
" el ho6vMOrel e	8\88885	8\8888-	l p7C	8\8888-		D) a	25HD/ 2			
Blb- HeP OL et OMylblvPe	8\888/	8\888)	l p7C	8\888)		D- -	/ aHD2/			
Blb- HeP OL et OMi P vlvPe	8\888/	8\888)	l p7C	8\888)		DDa	a2HD29			
El yrlb	8\88885	8\8888D	l p7C	8\8888D		- / 8	2- H 92			
pvl l vH K. 6Cb yvl eM	8\8888-	8\8888-	l p7C	8\8888-		D- 8	/ 5HDa8			
KedPvci lor	NB	8\88882	l p7C	8\88882		9a	) aHD- 2			
KedPvci lor edot bye	8\88885	8\8888-	l p7C	8\8888-		D58	2) HD) 5			
Ket vci loroj el hel e	NB	8\888D	l p7C	8\888D		99	) - HDD2			
Ket vci lorocOclodel Pvylel e	NB	8\888D	l p7C	8\888D		) 5	aDHD8-			
Z ePl ot Oci lor	8\888D	8\888D	l p7C	8\888D		D8/	aDHDDD			
Z ePblvci lor	8\888D	8\888D	l p7C	8\888D		D8-	) DHD)			
J lb vhlb e	NB	8\8888/	l p7C	8\8888/		98	)) HDDn			

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EPA 525.2 - Quality Control

UL#AZ0432

Al vlC¢	ResulP	RedorR¢ p Ct¢ lP	0 l l¢	J dlW¢ Ce1eL	J ource ResulP	%RE.	%RE. Ct¢ l¢	RGB	RGB Ct¢ lP	NoR¢s
Batch 186373 - SPE										
Reference (2940352)		**Source: 42445**		*Prepared: 12/05/13 Analyzed: 12/10/13*						
Alvci lor	8'\8889	8'\888-	l p7C	8'\88D		92	/ 8HD58			
Alyrt¢	8'\88D	8'\888D	l p7C	8'\88D		D88	/ 8HD58			
AR¢vht¢ e	8'\888n	8'\888D	l p7C	8'\88D		n-	/ 8HD58			
" el ho6vMOrel e	8'\8889n	8'\8888-	l p7C	8'\88D		9n	/ 8HD58			
" uR¢vci lor	8'\88D	8'\888D	l p7C	8'\88D		D8a	/ 8HD58			
Bt¢6 H¢R Ct¢ et CtMyltdvR¢	8'\88D-	8'\888)	l p7C	8'\88D		DDn	/ 8HD58			
Bt¢6 H¢R Ct¢ et CtMi R vlvR¢	8'\88D	8'\888)	l p7C	8'\88D		9/	/ 8HD58			
Bt¢elyrt¢	8'\88DD	8'\888D	l p7C	8'\88D		D8/	/ 8HD58			
El yrt¢	8'\88DD	8'\8888D	l p7C	8'\88D		DD5	/ 8HD58			
pvl l vH K. 6Ct¢ yvl eM	8'\888n-	8'\8888-	l p7C	8'\88D		n-	/ 8HD58			
KedR¢vci lor	8'\888n9	8'\88882	l p7C	8'\88D		n9	/ 8HD58			
KedR¢vci lor edot¢ye	8'\8889D	8'\8888-	l p7C	8'\88D		9D	/ 8HD58			
Ket vci loroj el hel e	8'\8889	8'\888D	l p7C	8'\88D		98	/ 8HD58			
Ket vci lorocOctodel R¢yl¢el e	8'\888n	8'\888D	l p7C	8'\88D		n5	/ 8HD58			
Z eR¢ ot Oci lor	8'\8889	8'\888D	l p7C	8'\88D		9a	/ 8HD58			
Z eR¢lvci lor	8'\88D	8'\888D	l p7C	8'\88D		9/	/ 8HD58			
Z eR¢¢ uht¢	8'\888n	8'\888D	l p7C	8'\88D		/)	/ 8HD58			
Grodvci lor	8'\8889	8'\888D	l p7C	8'\88D		92	/ 8HD58			
J t¢ vht¢ e	8'\888nD	8'\8888/	l p7C	8'\88D		nD	/ 8HD58			
Reference (2940353)		**Source: 42445**		*Prepared: 12/05/13 Analyzed: 12/10/13*						
Alvci lor	8'\8889	8'\888-	l p7C	8'\88D		95	/ 8HD58			
Alyrt¢	8'\8889	8'\888D	l p7C	8'\88D		92	/ 8HD58			
AR¢vht¢ e	8'\888n	8'\888D	l p7C	8'\88D		n8	/ 8HD58			
" el ho6vMOrel e	8'\8889)	8'\8888-	l p7C	8'\88D		9)	/ 8HD58			
" uR¢vci lor	8'\88DD	8'\888D	l p7C	8'\88D		D8a	/ 8HD58			
Bt¢6 H¢R Ct¢ et CtMyltdvR¢	8'\88DD	8'\888)	l p7C	8'\88D		DD5	/ 8HD58			
Bt¢6 H¢R Ct¢ et CtMi R vlvR¢	8'\88D	8'\888)	l p7C	8'\88D		9a	/ 8HD58			
Bt¢elyrt¢	8'\88DD	8'\888D	l p7C	8'\88D		D8/	/ 8HD58			
El yrt¢	8'\88DD	8'\8888D	l p7C	8'\88D		DDD	/ 8HD58			
pvl l vH K. 6Ct¢ yvl eM	8'\888/ 2	8'\8888-	l p7C	8'\88D		/ 2	/ 8HD58			
KedR¢vci lor	8'\888n)	8'\88882	l p7C	8'\88D		n)	/ 8HD58			
KedR¢vci lor edot¢ye	8'\8889-	8'\8888-	l p7C	8'\88D		9-	/ 8HD58			
Ket vci loroj el hel e	8'\8889	8'\888D	l p7C	8'\88D		n/	/ 8HD58			
Ket vci lorocOctodel R¢yl¢el e	8'\888n	8'\888D	l p7C	8'\88D		/ n	/ 8HD58			
Z eR¢ ot Oci lor	8'\8889	8'\888D	l p7C	8'\88D		na	/ 8HD58			
Z eR¢lvci lor	8'\88D	8'\888D	l p7C	8'\88D		9/	/ 8HD58			
Z eR¢¢ uht¢	8'\888n	8'\888D	l p7C	8'\88D		n8	/ 8HD58			
Grodvci lor	8'\8889	8'\888D	l p7C	8'\88D		nn	/ 8HD58			
J t¢ vht¢ e	8'\888/ 9	8'\8888/	l p7C	8'\88D		/ 9	/ 8HD58			

EPA 548.1 - Quality Control

UL#AZ0432

Al vlCte	ResultP	RedorMb p Ct lP	0 l lbs	J dlW¢ Ce1eL	J ource ResultP	%RE.	%RE. Ct lbs	RGB	RGB Ct lP	NoRes
Batch 186198 - SPE										
Blank (2939482)		**Source: 42429**		*Prepared: 12/04/13 Analyzed: 12/06/13*						
El yoP vlL	NB	8\689	l p7C				H			
LCS (2939483)		**Source: 42429**		*Prepared: 12/04/13 Analyzed: 12/06/13*						
El yoP vlL	8\DD	8\689	l p7C	8\D		D8)	/ 8HD2-			
LCS (2939484)		**Source: 42429**		*Prepared: 12/04/13 Analyzed: 12/06/13*						
El yoP vlL	NB	8\689	l p7C	8\689		n9	5nHD) D			
Reference (2939485)		**Source: 42430**		*Prepared: 12/04/13 Analyzed: 12/06/13*						
El yoP vlL	8\6a2	8\689	l p7C	8\6a		D8n	/ 8HD58			
Reference (2939486)		**Source: 42430**		*Prepared: 12/04/13 Analyzed: 12/06/13*						
El yoP vlL	8\62n	8\689	l p7C	8\6a		9)	/ 8HD58			
Matrix Spike (2939488)		**Source: 42429**		*Prepared: 12/04/13 Analyzed: 12/06/13*						
El yoP vlL	8\DD	8\689	l p7C	8\D	x Z RC	D8n	/ 8HD2-			
Matrix Spike Dup (2939489)		**Source: 42429**		*Prepared: 12/04/13 Analyzed: 12/06/13*						
El yoP vlL	8\DD	8\689	l p7C	8\D	x Z RC	D8/	/ 8HD2-			

EPA 549.2 - Quality Control

UL#AZ0432

Al vlC?e	ResulP	Redorf?ll p Ct ll?P	0 l ll?s	J dl?W¢ Ce1eL	J ource ResulP	%RE.	%RE. Ct ll?s	RGB	RGB Ct ll?P	NoR?s
Batch 186123 - SPE										
Matrix Spike (2939332)		**Source: 42425**		*Prepared & Analyzed: 12/04/13*						
Bltquv P	NB	8\8882	l p7C	8\88a	x Z RC	8	/ 8HD58			
Matrix Spike (2939333)		**Source: 42425**		*Prepared & Analyzed: 12/04/13*						
Bltquv P	8\88D/	8\8882	l p7C	8\88a	x Z RC	5a	/ 8HD58			
LCS (2939335)		**Source: 42425**		*Prepared & Analyzed: 12/04/13*						
Bltquv P	NB	8\8882	l p7C	8\8882		a)	- DHD) D			
Blank (2939336)		**Source: 42425**		*Prepared & Analyzed: 12/04/13*						
Bltquv P	NB	8\8882	l p7C				H			
LCS (2939337)		**Source: 42425**		*Prepared & Analyzed: 12/04/13*						
Bltquv P	8\885)	8\8882	l p7C	8\88a		/ 5	/ 8HD58			
Reference (2939338)		**Source: 42281**		*Prepared: 11/20/13 Analyzed: 12/04/13*						
Bltquv P	8\88- D	8\8882	l p7C	8\88-		D8/	n8HD- 8			
Reference (2939339)		**Source: 42281**		*Prepared: 11/20/13 Analyzed: 12/04/13*						
Bltquv P	8\88a5	8\8882	l p7C	8\88a		D8)	n8HD- 8			

Vellow gvcWePBrbbb p J er1bce	GromecP: New source	
59- - E 0 I bersbPOBrYJ ubPekD	GromecPNul j er: New J ource 4 elL- . RS DD7- / 7- 8D5	**Reported:**
Gi oel bi , Az na852	GromecPZ vl vper: goi l Srvut	D- 7- / 7D5 89:2D

EPA-5 1613B-Tetras - Quality Control

Pace Analytical Services, Inc.

Al vLOe	ResulP	RedorPb p Cb bP	0 I bPs	J dbWe Ce1eL	J ource ResulP	%RE.	%RE. Cb bPs	RGB	RGB Cb bP	NoPes
Batch 14201 - 1613										
Blank (BLAN_ -38636)				*Prepared: 12/09/13 Analyzed: 12/10/13*						
Bbot b	NB	8\88888888a8	I p7C				H			
LCS (LCS-38637)				*Prepared: 12/09/13 Analyzed: 12/10/13*						
Bbot b	8\888888- -	8\88888888a8	I p7C	- 88			/ 5\8HD2) \8			
LCSD (LCSD-38638)		**Source: LCS-38637**		*Prepared: 12/09/13 Analyzed: 12/10/13*						
Bbot b	8\888888D/	8\88888888a8	I p7C	- 88	8\888888D/		/ 5\8HD2) \8	- 2\a	8	

Cepel y Seci l bcvLJ er1bces oTArbhol v, fl cY

Cvj orvPorO4 orW(ryer NoY 5DD- D/ D

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Gvpe 5/ oT2)

Vellow gvcWePBrbbb p J er1bce	GromacP: New source	
59- - E 0 I bersbPOBrYJ ubPekD	GromacPNul j er: New J ource 4 elL- . RS DD7- / 7- 8D5	**Reported:**
Gi oel bi , Az na852	GromacPZ vl vper: goi l Srvut	D- 7- / 7D5 89:2D

Notes and Definitions

R/	CF" 7CF" B RGB et ceeyey Pe lvj orvPorOvccedPvl ce lb bPY Reco1erOl ePvccedPvl ce crbPerbvY
N2	Si e Z b b ul RedorPb p Cb bP6Z RCM1erbbcvPbl ci ecWyby l oPl eePPe lvj orvPorOvccedPvl ce lb bPY
Z -	Z vPbi sdbWe reco1erOwvs low; Pe vssocbvPey j lvl WsdbWe reco1erOwvs vccedPvj leY
Ka	Si bs PesPbs sdecbbey Po j e derTorl ey b Pe Tbely wbPb Da l b uPes oTsvl dlb p; svl dle wvs receb1ey vl y vl vlOhey dvsPPe repulvPorOi olyb p Pb eY
KD	J vl dle vl vlOsbs derTorl ey dvsPi olyb p Pb eY
" C"	Z ePoy " lvl W
C. J7Bud	Cvj orvPorO. ol PoLJ vl dle7Cvj orvPorOForPbey " lvl WBudlbcvPe
Z J7Bud	Z vPbi J dbWe7BudlbcvPe
BrO	J vl dle resulBs redorPey ol v yrOwebpi Pj vsbs
RGB	RelvPble Gercel PBbTerel ce

Lab Work Sample #

3112171

CHAIN OF CUSTODY RECORD

LEGEND Technical Services, Inc.
www.legendgroup.com

☐ 17631 N. 25th Avenue • Phoenix, AZ 85023 • (602) 324-6100 • Fax (602) 324-6101
☐ 4585 S. Palo Verde Rd, Ste 422 • Tucson, AZ 85735 • (520) 327-1234 • Fax (520) 327-0518

Page 1 of 3 DM 11/21/13

Please Print Clearly

CLIENT INFORMATION

Client Name	Address	City	State	Zip	Phone	Fax Number or Email Address
Yellow Jacket Drilling Svcs	P.O Box 801	Gilbert	AZ	85299	602-453-3252	yjdrilling@cox.net

Project Name	Project Number/PWS	Contact	P.O. No.	
New Source				Fax Results ☐ QC Report ☐ 5000 ☐ Email Results ☐ Special Detection Limits ☐

SAMPLE TYPE CODES: DW=Drinking, Water, WW=Wastewater, SW=Surface Water, GW=Groundwater, Oth=Other, S=Solid/Soil, T=Travel Blank, F=Food, SL=Sludge/Biosolids

TURN AROUND TIME: Laboratory Authorization Required for Rush
☐ Standard 15-20 Working Days
☐ Other _____ (Laboratory Authorization Required)

REQUESTED ANALYSES

Client's	Date	Time	Sample Location/POE/DWR	Composite	Grab	Sample Type	Compliance	No. of Containers	RLV (Lab Use Only)	Metals*	Asbestos	Cyanide	Nitrate, Nitrite	Langelier Index**	Total Coliform	Sulfate	Fluoride	Total Hardness	500, 515, 525	531, 547, 548	549, Diquat	524, 504	Gross Alpha	Radium 226/228	[illegible]	[illegible]	
Well 2 CPT	11/21/13	700			X	DW				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		-01
Travel Blank (Do Not Open)					X	DI																X					-02

TO ENSURE COMPLETION OF ANALYSIS, SAMPLES MUST BE RECEIVED AT LEAST 3 HOURS PRIOR TO THE HOLD TIME EXPIRATION

Comments / Special Instructions: 12/12 *Metals= Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Na, Tl **Langelier Index= Ca, Alkalinity, TDS, pH ***Total Hardness= Ca, Mg
If sample source is chlorinated, chlorine-free sample containers/preservatives must be used for dechlorination.

SAMPLE CONDITION UPON RECEIPT (Lab Use)		
No. of Containers	15	
Temperature	2.5°C	
Custody Seals	Y	(N)
Seals Intact	Y	(N)
Preserved	(Y)	N

RELINQUISHED BY	Date	Time	SAMPLES RECEIVED BY	Date	Time
① Sampler Signature / Sampler Printed Name: Client	11/21/13	1445	Signature / Printed Name: [illegible] / Lincoln	11/21/13	1445
② Signature / Printed Name			Signature / Printed Name		
③ Signature / Printed Name			Signature / Printed Name		

WHITE-LAB YELLOW-CLIENT

See attached for additional analyses
DM 11/21/13

FORM GEN-170 (05/06)

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

3112171

Kundalis
3101744

2 of 3

T = 1,100 to T = 2,000, every 15 minutes.
T = 2,000 to T = 3,000, every 30 minutes.

If the pump is shut off for any reason during the pumping portion of the test, it shall remain shut off for 24 hours and the complete test shall be rerun.

The pump must remain in place until all recovery measurements are completed.

Upon completion of the test, recorded measurements shall be turned over to Project Engineer for analysis.

2.14 WATER QUALITY TESTING

Near the end of the constant-rate test, the Contractor will collect and properly preserve a suite of water samples. The laboratory listed below will provide appropriate sample containers. Analyses for the chemical constituents listed below shall be performed at the Contractor's expense and the results given to the Project Engineer.

Water quality analysis and methods are based on the National Primary Drinking Water Regulations as found in the Code of Federal Regulations (CFR) Title 40 Part 141. A summary of the National Primary Drinking Water Regulations are attached as Appendix E.

The water quality testing laboratory shall be EPA certified. The water quality testing shall be performed by Legend Technical Services, Inc., 17631 North 25th Avenue, Phoenix, AZ 85023, Phone: (602) 324-6100 or approved equal. When contacting Legend Technical Services the Contractor shall request sample containers for a "new source approval" test for groundwater. As the well is a "new source", there is no need to test for disinfectants or disinfection byproducts.

The "new source approval" test from Legend Technical Services shall comply with the most recent version of the National Primary Drinking Water Regulations and shall test for the following general classes of contaminants:

1. Microorganisms
2. Organic Chemicals
3. Inorganic Chemicals
4. Radionuclides

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~~3/01744~~ KM 12/2/13

The Contractor shall also sample and test for the following secondary parameters to determine water chemistry that may lead to customer complaints or operation and maintenance problems:

1. Alkalinity
2. Aluminum
3. Calcium
4. Chloride
5. Color
6. Copper
7. Corrosivity
8. Flouride
9. Hardness as CaCO3
10. Iron
11. Magnesium
12. Manganese
13. Nickel
14. Odor
15. pH
16. Silver
17. Sodium
18. Sulfate
19. Total Dissolved Solids (TDS)
20. Total Organic Carbon (TOC)
21. Zinc
22. Silica

+ Potassium
+ bicarbonate

Sample analysis (both acquisition and payment) shall be the sole responsibility of the Contractor. The Project Engineer shall be present during water sampling and shall initial the custody seals of the sample containers.

Legend Technical Services of Arizona, Inc.

PO Number: 3112171

SUBCONTRACT ORDER
3112171

SENDING LABORATORY:

Legend Technical Services of Arizona, Inc.
17631 North 25th Avenue
Phoenix, AZ 85023
Phone: 602-324-6100
Fax: 602-324-6101
Project Manager: Cory Lund

RECEIVING LABORATORY:

Legend Technical Services, St. Paul AZ0557
88 Empire Drive
Saint Paul, MN 55103
Phone: (800) 826-6553
Fax: (651) 642-1238

Project: New source

Client: Yellow Jacket Drilling Service

Analysis	Due	Expires	Leach Date & Time	Sample Comments
Sample ID: 3112171-01 Drinking Wat **Sampled:11/27/13 07:00**				
505-Subcontract	12/10/13 09:00	12/11/13 07:00		

Containers Supplied:
10_40ml, Sodium Thiosulfate Clear Vial Cool to 4° C (W)
10_40ml, Sodium Thiosulfate Clear Vial Cool to 4° C (X)

Special Instructions:

* The sample matrix for leachates supplied to the MN laboratory reflects the matrix of the original sample received by LEGEND AZ.
**For matrices other than Drinking Water requiring drinking water methods (such as EPA 505, etc.), a 10x dilution is acceptable. Appropriate data qualifiers are to be used.

Released By (Print & Sign)	Date	Time	Received By (Print & Sign)	Date	Time
x [illegible]	12/2/13	1630	x [illegible]	12/2/13	1630
x					

Released By (Print & Sign)	Date	Time	Received By (Print & Sign)	Date	Time

Page 1 of 1

Legend Technical Services of Arizona, Inc.

PO Number: 3112171

SUBCONTRACT ORDER
3112171

SENDING LABORATORY:

Legend Technical Services of Arizona, Inc
17631 North 25th Avenue
Phoenix, AZ 85023
Phone: 602-324-6100
Fax: 602-324-6101
Project Manager: Cory Lund

RECEIVING LABORATORY:

Underwriter's Laboratories
110 S. Hill Street
South Bend, IN 46617
Phone: (800) 332-4345
Fax: (574) 233-6297

Project: New source

Client: Yellow Jacket Drilling Service

Analysis	Due	Expires	Leach Date & Time	Sample Comments
Sample ID: 3112171-01 Drinking Water Sampled: 11/27/13 07:00				
504-Subcontract	12/10/13 09:00	12/11/13 07:00		
515-Subcontract	12/10/13 09:00	12/11/13 07:00		
525-Subcontract	12/10/13 09:00	12/11/13 07:00		
548-Subcontract	12/10/13 09:00	12/04/13 07:00		
549-Subcontract	12/10/13 09:00	12/04/13 07:00		

Containers Supplied:
07_1000ml, Amber Glass pH <2 w/ SS & HCl (N)
07_1000ml, Amber Glass pH <2 w/ SS & HCl (O)
11_125ml, Amber Glass Bottle w/ Sodium Sulfite (P)
11_125ml, Amber Glass Bottle w/ Sodium Sulfite (O)
20_500ml, Amber Plastic w/ S.T. & H2SO4 (R)
10_40ml, Sodium Thiosulfate Clear Vial Cool to 4° C (S)
10_40ml, Sodium Thiosulfate Clear Vial Cool to 4° C (T)
10_40ml, Sodium Thiosulfate Clear Vial Cool to 4° C (U)
10_40ml, Sodium Thiosulfate Clear Vial Cool to 4° C (V)

Special Instructions:

* The sample matrix for leachates supplied to the MN laboratory reflects the matrix of the original sample received by LEGEND AZ.
**For matrices other than Drinking Water requiring drinking water methods (such as EPA 505, etc.), a 10x dilution is acceptable. Appropriate data qualifiers are to be used.

Relinquished By (Print & Sign)	Date	Time	Received By (Print & Sign)	Date	Time
x [illegible]	12/4/13		x [illegible]	12/4/13	1630
x					

Page 1 of 1

Legend Technical Services of Arizona, Inc.

PO Number: 3112171

SUBCONTRACT ORDER

3112171

SENDING LABORATORY:

Legend Technical Services of Arizona, Inc.
17631 North 25th Avenue
Phoenix, AZ 85023
Phone: 602-324-6100
Fax: 602-324-6101
Project Manager: Cory Lund

RECEIVING LABORATORY:

Pace Analytical Services
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone :(612) 607-1700
Fax: (612) 607-6444

Analysis	Due	Expires	Sample Type	Sample Comments
Sample ID: 3112171-01	**Drinking W**	**Sampled:11/27/13 07:00**	**Grab Composite N/A**	
1613-Subcontract	12/10/13 09:00	02/25/14 07:00		

Containers Supplied:
02_1000mL Amber Glass Cool to 4° C (L)
02_1000mL Amber Glass Cool to 4° C (M)

Kristi McFarlin X [signature] 2/2/13 1630 Fedex X 12/2/13 1630
Released By (Print & Sign) Date Time Received By (Print & Sign) Date Time

Fedex X
Released By (Print & Sign) Date Time Received By (Print & Sign) Date Time

Page 1 of 1

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Legend Technical Services of Arizona, Inc.

PO Number: 3112171
Sampled By:
Compliance?: Yes No

SUBCONTRACT ORDER
3112171

SENDING LABORATORY:

Legend Technical Services of Arizona, Inc.
17631 North 25th Avenue
Phoenix, AZ 85023
Phone: 602-324-6100
Fax: 602-324-6101
Project Manager: Cory Lund

RECEIVING LABORATORY:

Fiberquant Analytical Services
5025 S. 33rd Street
Phoenix, AZ 85040
Phone: (602) 276-6139
Fax: (602) 276-4558

Analysis	Due	Expires	Sample Type (date use)	Sample Comments
Sample ID: 3112171-01	**Drinking W**	**Sampled: 11/27/13 07:00**	**Grab Composite N/A**	
Asbestos	12/10/13 09:00	11/29/13 07:00		

Containers Supplied:
03_1000mL Plastic Cool to 4° C (A)

Kristi McFarlin x [signature] 12/2/13 12:40 Cecil Crawford x [signature] 12/2/13 12:40
Released By (Print & Sign) Date Time Received By (Print & Sign) Date Time

Cecil Crawford x [signature] 12/2/13 13:13 [signature] 12/2/13 @13:13
Released By (Print & Sign) Date Time Received By (Print & Sign) Date Time

Review of Analysis Request (Initials) [initials]

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Legend Technical Services of Arizona, Inc.

SUBCONTRACT ORDER

3112171

PO Number: 3112171
Sampled By:
Compliance?: Yes No

SENDING LABORATORY:

Legend Technical Services of Arizona, Inc.
17831 North 25th Avenue
Phoenix, AZ 85023
Phone: 602-324-6100
Fax: 602-324-6101
Project Manager: Cory Lund

RECEIVING LABORATORY:

Radiation Safety Engineering
3245 N. Washington
Chandler, AZ 85225
Phone: (480) 897-9489
Fax: (480) 892-5448

Analysis	Due	Expires	Sample Type (Grab/Comp)	Sample Comments
Sample ID: 3112171-01	Drinking W.	Sampled: 11/27/13 07:00	Grab Composite	N/A
Radium 226	12/10/13 09:00	05/28/14 07:00		
Radium 228	12/10/13 09:00	05/28/14 07:00		
Gross Alpha, Measured	12/10/13 09:00	05/28/14 07:00		
Gross Alpha, Deviation	12/10/13 09:00	05/28/14 07:00		

Containers Supplied:
06_1000ml, Plastic pH <2 w/ HNO3 (B)
06_1000ml, Plastic pH <2 w/ HNO3 (C)
06_1000ml, Plastic pH <2 w/ HNO3 (D)
06_1000ml, Plastic pH <2 w/ HNO3 (E)

Kristi McFarlin — Released By (Print & Sign) — Date 12/2/13 — Time 12:40 — Received By (Print & Sign): Cecil Crawford — Date 12/2/13 — Time 12:40

Cecil Crawford — Released By (Print & Sign) — Date 12/2/13 — Time 15:25 — Received By (Print & Sign) — Date 12/2/13 — Time 15:25

Page 1 of 1

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Appendix 6.

Copy of well video (DVD),
HAMP Well No. 2, Hopi Tribe, Arizona

ED_005149_00023261-00305