



9 October, 2015

U.S. Environmental Protection Agency
Region 9

**RE: Water Storage Tank Sampling Report
Gold King Mine Emergency Response (ER), San Juan County, Navajo Nation
Contract # EP-S5-13-02, TDD#: 0002/1302-T2-R9-15-08-0001
Document Control Number: 0066-08-AAGS**

Mr. Dunkelman:

On September 3, 2015, Weston Solutions, Inc. (WESTON®) Superfund Technical Assessment and Response Team (START) members performed water storage tank sampling on behalf of the Region 9 U.S. Environmental Protection Agency (EPA). This report summarizes the sampling and documentation activities conducted. The results of the sampling and photographs of the tanks are included in this report.

Scope of Work

The scope of services for the request was to collect water samples from eleven non-potable water storage tanks provided by the EPA to the Navajo Nation for livestock and agricultural water. The storage tanks were located at six points in and around Shiprock, NM (Attachment 1). During the sampling, photographs were taken and tank descriptions were recorded.

Water Storage Tank Visual Assessment

EPA supplied water storage tanks were visited on 3 September, 2015. During the visit each tank was evaluated for external cleanliness, visible markings or stickers, and approximate water level. Descriptive photographs are included in the photograph log in Attachment 2. This data is listed in the table below.

Tank #	Cleanliness	Markings/Stickers	Water Level (Marked Level)
901	Normal external dirt and rust	Navajo Warning Postings and Crime Scene Tape	Full (19)
256	Normal external dirt and rust.	Navajo Warning Postings and Crime Scene Tape	Full (?)
31L	Oil residue in the vicinity of the overflow pipe and ladder	Filter Oil in chalk, graffiti, Navajo Warning Postings and Crime Scene Tape	Half (8)
904	Normal external dirt and rust	Navajo Warning Postings and Crime Scene Tape	Full (19)
912	Normal external dirt and rust	Navajo Warning Postings and Crime Scene Tape	¾ (14.5)
913	Normal external dirt and rust	Navajo Warning Postings	Empty

Tank #	Cleanliness	Markings/Stickers	Water Level (Marked Level)
907	Normal external dirt and rust	Navajo Warning Postings	Empty
906	Normal external dirt and rust	Navajo Warning Postings and Crime Scene Tape, Graffiti	Empty
914	Normal external dirt and rust	Navajo Warning Postings, Graffiti	Empty
52	Normal external dirt and rust	Navajo Warning Postings	Full (19)
908	Normal external dirt and rust	Navajo Warning Postings	Full (19)

Water Storage Tank Sampling

Samples were collected from the seven tanks which contained water and one field duplicate sample was collected. The samples were submitted for analysis of volatile organic compounds (VOCs), total organic carbon (TOC), semi-volatile organic compounds (SVOCs), total metals, phenols, total suspended solids, and total dissolved solids. Data were compared to the following screening levels:

- Drinking water federal Maximum Contaminant Levels (MCLs);
- Navajo Nation Surface Water Quality Standards for Agricultural Water Supply; and
- Navajo Nation Surface Water Quality Standards for Livestock Watering.

None of the analytes detected above laboratory reporting limits exceeded MCLs or the Navajo Nation surface water quality standards for agricultural water supply or for livestock watering (Attachment 3).

Tank 31L was the only tank with external visible oil residue. The oil residue was located on the outside of the tank near the ladder used to access the top of the tank, and on the threads at the base of the overflow pipe. The overflow pipe is used to manage take overtops. Tank fluids enter the overflow pipe from the top of the tank and then flow down and out of the pipe. The ladder and overflow pipe on the tank are located several feet to the right of the distribution valves as seen in photo number 131-1091 and 131-1092 in Attachment 2. The water distribution valves are located at the bottom of the tank. Water exits the tank at a high velocity straight out of the distribution valves (perpendicular to the tank). Tank water only comes into contact with the overflow pipe as it exits the tank through the overflow pipe during overtopping conditions. Tank water flowing through the discharge valves does not have any interaction with the overflow pipe or the ladder.

WESTON appreciates the opportunity to assist EPA with this project. If you have questions concerning the results, the sampling procedures, or require additional services, please do not hesitate to call at 480-477-4904.

Sincerely,

WESTON SOLUTIONS, INC.



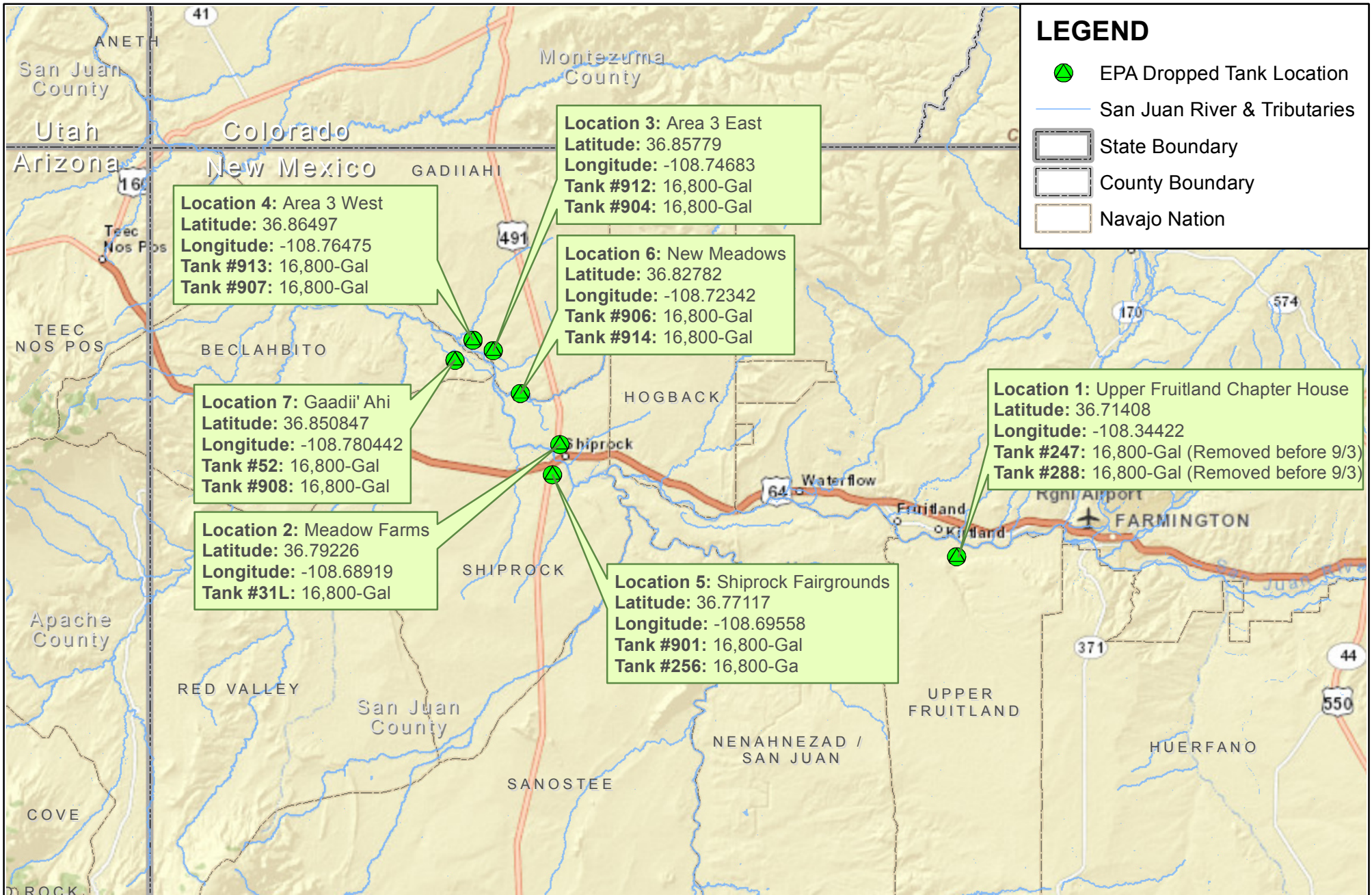
Patricia Beckley
Field Team Leader

Attachments

- Attachment 1: EPA Tank Drop Location Map
- Attachment 2: Photographic log
- Attachment 3: Summary of Analytical Results

Attachment 1

EPA Dropped Tank Location Map



LEGEND

- EPA Dropped Tank Location
- San Juan River & Tributaries
- State Boundary
- County Boundary
- Navajo Nation

Location 4: Area 3 West
 Latitude: 36.86497
 Longitude: -108.76475
 Tank #913: 16,800-Gal
 Tank #907: 16,800-Gal

Location 3: Area 3 East
 Latitude: 36.85779
 Longitude: -108.74683
 Tank #912: 16,800-Gal
 Tank #904: 16,800-Gal

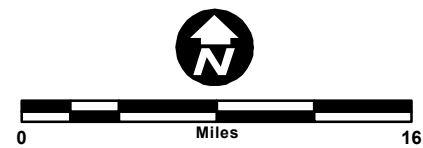
Location 6: New Meadows
 Latitude: 36.82782
 Longitude: -108.72342
 Tank #906: 16,800-Gal
 Tank #914: 16,800-Gal

Location 7: Gaadii' Ahi
 Latitude: 36.850847
 Longitude: -108.780442
 Tank #52: 16,800-Gal
 Tank #908: 16,800-Gal

Location 2: Meadow Farms
 Latitude: 36.79226
 Longitude: -108.68919
 Tank #31L: 16,800-Gal

Location 5: Shiprock Fairgrounds
 Latitude: 36.77117
 Longitude: -108.69558
 Tank #901: 16,800-Gal
 Tank #256: 16,800-Ga

Location 1: Upper Fruitland Chapter House
 Latitude: 36.71408
 Longitude: -108.34422
 Tank #247: 16,800-Gal (Removed before 9/3)
 Tank #288: 16,800-Gal (Removed before 9/3)



PREPARED BY:
 Region 9, START
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PREPARED FOR:
 EPA Region 9
 Pacific Southwest



SAN JUAN RIVER RESPONSE
EPA TANK DROPS
 Emergency Response
 EPA Region 9

Attachment 2

Photographic log

Project Name: Gold King Mine Emergency Response	Site Location: San Juan County, Navajo Nation, NM	TDD#: 02-1508001 DCN:0066-08-AAGS
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Photo No. 131-1084	
Date: 9/3/15	
Description: Water storage tank #256.	

Photo No. 131-1088	
Date: 9/3/15	
Description: Water storage tank #256.	

Project Name: Gold King Mine Emergency Response	Site Location: San Juan County, Navajo Nation, NM	TDD#: 02-1508001 DCN: 0066-09-AAGL
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Photo No. 131-1085	
Date: 9/3/15	
Description: Water storage tank #901	

Photo No. 131-1086	
Date: 9/3/15	
Description: Water storage tank #901	

Project Name: Gold King Mine Emergency Response	Site Location: San Juan County, Navajo Nation, NM	TDD#: 02-1508001 DCN: 0066-09-AAGL
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Photo No. 131-1091	
Date: 9/3/15	
Description: Water storage tank #31L.	

Photo No. 131-1092	
Date: 9/3/15	
Description: Water storage tank #31L.	

Project Name: Gold King Mine Emergency Response	Site Location: San Juan County, Navajo Nation, NM	TDD#: 02-1508001 DCN: 0066-09-AAGL
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Photo No. 131-1094
Date: 9/3/15
Description: Water storage tank #s 904 and 912.



Photo No. 131-1095
Date: 9/3/15
Description: Water storage tank #904.



Project Name: Gold King Mine Emergency Response		Site Location: San Juan County, Navajo Nation, NM		TDD#: 02-1508001 DCN: 0066-09-AAGL	
Photo No. 131-1098					
Date: 9/3/15					
Description: Water storage tank #912.					

Photo No. 131-1101					
Date: 9/3/15					
Description: Water storage tank #913.					

Project Name: Gold King Mine Emergency Response	Site Location: San Juan County, Navajo Nation, NM	TDD#: 02-1508001 DCN: 0066-09-AAGL
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Photo No. 131-1103	
Date: 9/3/15	
Description: Water storage tank #907	

Photo No. 131-1107	
Date: 9/3/15	
Description: Water storage tank #906	

Project Name: Gold King Mine Emergency Response	Site Location: San Juan County, Navajo Nation, NM	TDD#: 02-1508001 DCN: 0066-09-AAGL
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Photo No. 131-1109	
Date: 9/3/15	
Description: Water storage tank #914.	

Photo No. 131-1115	
Date: 9/3/15	
Description: Water storage tank #52	

Project Name: Gold King Mine Emergency Response		Site Location: San Juan County, Navajo Nation, NM		TDD#: 02-1508001 DCN: 0066-09-AAGL
Photo No. 131-1118				
Date: 9/3/15				
Description: Water storage tank #908				

Attachment 3

Summary of Analytical Results

Table 1
Non-Potable Water Analytical Data - Region 9
San Juan River Response

Analyte	CAS.NO	Units	MCLs	Ag Water Supply	Livestock Water Supply	Location	T052	T256	T31L	T901	T904	T904	T908	T912
						Sample ID	T052-090315-13	T256-090315-13	T31L-090315-13	T901-090315-13	T904-090315-13	T904-090315-14	T908-090315-13	T912-090315-13
						Date	9/3/2015	9/3/2015	9/3/2015	9/3/2015	9/3/2015	9/3/2015	9/3/2015	9/3/2015
						Sample Time	12:25	9:35	10:25	9:35	10:55	11:00	12:30	10:50
						Latitude	36.850847	36.77117	36.79226	36.77117	36.85779	36.85779	36.850847	36.85779
						Longitude	-108.780442	-108.69558	-108.68919	-108.69558	-108.74683	-108.74683	-108.780442	-108.74683
Metals, Total														
Aluminum, Total	7429-90-5	ug/L		5000		--	46 J	62 J	27 J	52 J	140 J	140 J	72 J	< 24 U
Antimony, Total	7440-36-0	ug/L	6			--	< 0.4 UJ	< 0.4 UJ	< 0.4 UJ	< 0.4 UJ	< 0.4 UJ	< 0.4 UJ	< 0.4 UJ	< 0.4 UJ
Arsenic, Total	7440-38-2	ug/L	10	2000	200	--	< 0.37 UB	< 0.37 U	< 0.37 UB	< 0.37 UB	1.1 J+	< 0.37 UB	< 0.37 UB	< 0.37 U
Barium, Total	7440-39-3	ug/L	2000			--	54	51	94	79	72	74	79	61
Beryllium, Total	7440-41-7	ug/L	4	100	100	--	< 0.15 U	< 0.15 U	< 0.15 U	< 0.15 U	< 0.15 U	< 0.15 U	< 0.15 U	< 0.15 U
Cadmium, Total	7440-43-9	ug/L	5	50	50	--	< 0.043 U	< 0.043 U	< 0.043 U L	< 0.043 U	< 0.043 U	< 0.043 U L	< 0.043 U	< 0.043 U
Calcium, Total	7440-70-2	ug/L				--	27000 B	26000 B	36000 B	27000 B	28000 B	29000 B	32000 B	28000 B
Chromium, Total	7440-47-3	ug/L	100	1000	1000	--	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Cobalt, Total	7440-48-4	ug/L		50	1000	--	0.34 J	0.21 J	0.26 J	0.4	0.4	0.38 J	0.27 J	0.23 J
Copper, Total	7440-50-8	ug/L	1300	200	500	--	0.88 J	1.1	1.5	1.5	1.5	1.5	1.1	0.65 J
Iron, Total	7439-89-6	ug/L				--	790	1100	210	990	660	680	890	530
Lead, Total	7439-92-1	ug/L	15	10000	100	--	< 0.06 U	< 0.06 U	0.08 J	< 0.06 U	< 0.06 U	< 0.06 U	0.15 J	< 0.06 U
Magnesium, Total	7439-95-4	ug/L				--	4700	4800	5500	4900	5000	5100	5100	4700
Manganese, Total	7439-96-5	ug/L				--	140	260	63	110	89	91	71	240
Mercury, Total	7439-97-6	ug/L	2		10	--	< 0.08 U	< 0.08 U	< 0.08 U	< 0.08 U	< 0.08 U	< 0.08 U	< 0.08 U	< 0.08 U
Molybdenum, Total	7439-98-7	ug/L		1000		--	1.2	1	1.5	1.4	0.92 J	0.95 J	1.4	1.2
Nickel, Total	7440-02-0	ug/L		200	1000	--	2	1.5	1.7	2.2	1.8	1.8	2.2	1.6
Potassium, Total	7440-09-7	ug/L				--	2200	2200	2400	2400	2400	2500	3000	3500
Selenium, Total	7782-49-2	ug/L	50	20	50	--	4.3 J+	4.6 J+	4.8 J+	3.1 J+	4.7 J+	7.1 J+	3.6 J+	2.8 J+
Silver, Total	7440-22-4	ug/L				--	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U
Sodium, Total	7440-23-5	ug/L				--	20000	20000	23000	21000	20000	21000	22000	20000
Thallium, Total	7440-28-0	ug/L	2			--	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U
Vanadium, Total	7440-62-2	ug/L		100	100	--	< 0.3 UB	< 0.3 UJ	< 0.3 UB	< 0.3 UB	< 0.3 UB	< 0.3 UB	< 0.3 UB	< 0.3 UB
Zinc, Total	7440-66-6	ug/L		10000	25000	--	< 2.8 U	< 2.8 U	< 2.8 U	< 2.8 U	< 2.8 U	< 2.8 U	< 2.8 U	< 2.8 U
General														
Phenolics, Total Recoverable	STL00166	mg/L				--	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U
Total Dissolved Solids	STL00242	mg/L				--	190	160	190	260	180	180	200	190
Total Organic Carbon	7440-44-0	mg/L				--	2.3	2	2.5	2	2	2.1	2.1	2.3
Total Suspended Solids	STL00161	mg/L				--	2	4.3	1.6	2.7	2	1.7	3.7	1.7
SVOCs														
2,2',3',4,6-Pentachlorobiphenyl	60233-25-2	ug/L				--	< 0.052 U	< 0.049 U	< 0.05 U	< 0.049 U	< 0.05 U	< 0.051 U	< 0.053 U	< 0.05 U
2,2',4,4'-Tetrachlorobiphenyl	2437-79-8	ug/L				--	< 0.029 U	< 0.027 U	< 0.027 U	< 0.027 U	< 0.027 U	< 0.028 U	< 0.029 U	< 0.027 U
2,3-Dichlorobiphenyl	16605-91-7	ug/L				--	< 0.021 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.02 U	< 0.021 U	< 0.019 U
2,4,5-Trichlorobiphenyl	15862-07-4	ug/L				--	< 0.035 U	< 0.033 U	< 0.033 U	< 0.033 U	< 0.033 U	< 0.034 U	< 0.035 U	< 0.033 U
2,4-Dinitrotoluene	121-14-2	ug/L				--	< 0.056 UJ	< 0.052 UJ	< 0.052 UJ	< 0.052 UJ	< 0.053 UJ	< 0.054 UJ	< 0.056 UJ	< 0.053 UJ
2,6-Dinitrotoluene	606-20-2	ug/L				--	< 0.043 UJ	< 0.04 UJ	< 0.041 UJ	< 0.04 UJ	< 0.041 UJ	< 0.042 UJ	< 0.043 UJ	< 0.041 UJ
2-Chlorobiphenyl	2051-60-7	ug/L				--	< 0.041 U	< 0.038 U	< 0.039 U	< 0.038 U	< 0.039 U	< 0.04 U	< 0.041 U	< 0.039 U
2-Methylnaphthalene	91-57-6	ug/L				--	< 0.21 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.2 U	< 0.21 U	< 0.19 U
4,4'-DDD	72-54-8	ug/L				--	< 0.032 U	< 0.03 U	< 0.03 U	< 0.03 U	< 0.03 U	< 0.031 U	< 0.032 U	< 0.03 U
4,4'-DDE	72-55-9	ug/L				--	< 0.021 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.02 U	< 0.021 U	< 0.019 U
4,4'-DDT	50-29-3	ug/L				--	< 0.026 U	< 0.024 U	< 0.024 U	< 0.024 U	< 0.024 U	< 0.025 U	< 0.026 U	< 0.024 U
Acenaphthene	83-32-9	ug/L				--	< 0.041 U	< 0.038 U	< 0.039 U	< 0.038 U	< 0.039 U	< 0.04 U	< 0.041 U	< 0.039 U
Acenaphthylene	208-96-8	ug/L				--	< 0.021 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.02 U	< 0.021 U	< 0.019 U
Acetochlor	34256-82-1	ug/L				--	< 0.043 U	< 0.04 U	< 0.041 U	< 0.04 U	< 0.041 U	< 0.042 U	< 0.043 U	< 0.041 U
Alachlor	15972-60-8	ug/L	2			--	< 0.034 U	< 0.032 U	< 0.032 U	< 0.032 U	< 0.032 U	< 0.033 U	< 0.034 U	< 0.032 U
Aldrin	309-00-2	ug/L				--	< 0.039 U	< 0.036 U	< 0.037 U	< 0.036 U	< 0.037 U	< 0.038 U	< 0.039 U	< 0.037 U
alpha-BHC	319-84-6	ug/L				--	< 0.041 U	< 0.038 U	< 0.039 U	< 0.038 U	< 0.039 U	< 0.04 U	< 0.041 U	< 0.039 U
alpha-Chlordane	5103-71-9	ug/L				--	< 0.042 U	< 0.039 U	< 0.04 U	< 0.039 U	< 0.04 U	< 0.041 U	< 0.042 U	< 0.04 U
Anthracene	120-12-7	ug/L				--	< 0.024 U	< 0.022 U	< 0.022 U	< 0.022 U	< 0.022 U	< 0.023 U	< 0.024 U	< 0.022 U
Atrazine	1912-24-9	ug/L	3			--	< 0.023 U	< 0.021 U	< 0.021 U	< 0.021 U	< 0.021 U	< 0.022 U	< 0.023 U	< 0.021 U
Benzo[a]anthracene	56-55-3	ug/L				--	< 0.021 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.02 U	< 0.021 U	< 0.019 U

Table 1
Non-Potable Water Analytical Data - Region 9
San Juan River Response

Analyte	CAS.NO	Units	MCLs	Ag Water Supply	Livestock Water Supply	Location	T052	T256	T31L	T901	T904	T904	T908	T912
						Sample ID	T052-090315-13	T256-090315-13	T31L-090315-13	T901-090315-13	T904-090315-13	T904-090315-14	T908-090315-13	T912-090315-13
						Date	9/3/2015	9/3/2015	9/3/2015	9/3/2015	9/3/2015	9/3/2015	9/3/2015	9/3/2015
						Sample Time	12:25	9:35	10:25	9:35	10:55	11:00	12:30	10:50
						Latitude	36.850847	36.77117	36.79226	36.77117	36.85779	36.85779	36.850847	36.85779
						Longitude	-108.780442	-108.69558	-108.68919	-108.69558	-108.74683	-108.74683	-108.780442	-108.74683
Benzo[a]pyrene	50-32-8	ug/L	0.2			--	< 0.03 U	< 0.028 U	< 0.028 U	< 0.028 U	< 0.028 U	< 0.029 U	< 0.03 U	< 0.028 U
Benzo[b]fluoranthene	205-99-2	ug/L				--	< 0.023 U	< 0.021 U	< 0.021 U	< 0.021 U	< 0.021 U	< 0.022 U	< 0.023 U	< 0.021 U
Benzo[g,h,i]perylene	191-24-2	ug/L				--	< 0.046 U	< 0.043 U	< 0.044 U	< 0.043 U	< 0.044 U	< 0.045 U	< 0.046 U	< 0.044 U
Benzo[k]fluoranthene	207-08-9	ug/L				--	< 0.036 U	< 0.034 U	< 0.034 U	< 0.033 U	< 0.034 U	< 0.035 U	< 0.036 U	< 0.034 U
beta-BHC	319-85-7	ug/L				--	< 0.046 U	< 0.043 U	< 0.044 U	< 0.043 U	< 0.044 U	< 0.045 U	< 0.046 U	< 0.044 U
Bis(2-ethylhexyl) phthalate	117-81-7	ug/L	6			--	< 0.62 U	< 0.58 U	< 0.58 U	< 0.57 U	< 0.58 U	< 0.6 U	< 0.62 U	< 0.58 U
Bromacil	314-40-9	ug/L				--	< 0.026 U	< 0.024 U	< 0.024 U	< 0.024 U	< 0.024 U	< 0.025 U	< 0.026 U	< 0.024 U
Butachlor	23184-66-9	ug/L				--	< 0.033 U	< 0.031 U	< 0.031 U	< 0.031 U	< 0.031 U	< 0.032 U	< 0.033 U	< 0.031 U
Butyl benzyl phthalate	85-68-7	ug/L				--	< 0.045 U	< 0.042 U	< 0.043 U	< 0.042 U	< 0.043 U	< 0.044 U	< 0.045 U	< 0.043 U
Butylate	2008-41-5	ug/L				--	< 0.034 U	< 0.032 U	< 0.032 U	< 0.032 U	< 0.032 U	< 0.033 U	< 0.034 U	< 0.032 U
Chlorobenzilate	510-15-6	ug/L				--	< 3 U	< 2.8 U	< 2.8 U	< 2.8 U	< 2.8 U	< 2.9 U	< 3 U	< 2.8 U
Chloroneb	2675-77-6	ug/L				--	< 0.031 U	< 0.029 U	< 0.029 U	< 0.029 U	< 0.029 U	< 0.03 U	< 0.031 U	< 0.029 U
Chlorothalonil	1897-45-6	ug/L				--	< 0.021 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.02 U	< 0.021 U	< 0.019 U
Chlorpropham	101-21-3	ug/L				--	< 0.038 U	< 0.036 U	< 0.036 U	< 0.035 U	< 0.036 U	< 0.037 U	< 0.038 U	< 0.036 U
Chlorpyrifos	2921-88-2	ug/L				--	< 0.046 U	< 0.043 U	< 0.044 U	< 0.043 U	< 0.044 U	< 0.045 U	< 0.046 U	< 0.044 U
Chrysene	218-01-9	ug/L				--	< 0.021 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.02 U	< 0.021 U	< 0.019 U
cis-Permethrin	54774-45-7	ug/L				--	< 0.026 U	< 0.024 U	< 0.024 U	< 0.024 U	< 0.024 U	< 0.025 U	< 0.026 U	< 0.024 U
Cycloate	1134-23-2	ug/L				--	< 0.023 U	< 0.021 U	< 0.021 U	< 0.021 U	< 0.021 U	< 0.022 U	< 0.023 U	< 0.021 U
DCPA	1861-32-1	ug/L				--	< 0.03 U	< 0.028 U	< 0.028 U	< 0.028 U	< 0.028 U	< 0.029 U	< 0.03 U	< 0.028 U
delta-BHC	319-86-8	ug/L				--	< 0.037 U	< 0.035 U	< 0.035 U	< 0.034 U	< 0.035 U	< 0.036 U	< 0.037 U	< 0.035 U
Di(2-ethylhexyl)adipate	103-23-1	ug/L	400			--	< 0.62 U	< 0.58 U	< 0.58 U	< 0.57 U	< 0.58 U	< 0.6 U	< 0.62 U	< 0.58 U
Dibenz(a,h)anthracene	53-70-3	ug/L				--	< 0.064 U	< 0.059 U	< 0.06 U	< 0.059 U	< 0.06 U	< 0.062 U	< 0.064 U	< 0.06 U
Dichlorvos	62-73-7	ug/L				--	< 0.061 U	< 0.057 U	< 0.057 U	< 0.056 U	< 0.057 U	< 0.059 U	< 0.061 U	< 0.057 U
Dieldrin	60-57-1	ug/L				--	< 0.046 U	< 0.043 U	< 0.044 U	< 0.043 U	< 0.044 U	< 0.045 U	< 0.046 U	< 0.044 U
Diethyl phthalate	84-66-2	ug/L				--	< 0.021 U	< 0.019 U	0.032 J	0.025 J	< 0.019 U	0.021 J	0.021 J	< 0.019 U
Dimethyl phthalate	131-11-3	ug/L				--	< 0.023 U	< 0.021 U	< 0.021 U	< 0.021 U	< 0.021 U	< 0.022 U	< 0.023 U	< 0.021 U
Di-n-butyl phthalate	84-74-2	ug/L				--	< 0.041 UB	< 0.038 UB	< 0.039 UB	< 0.038 UB	< 0.039 UB	< 0.04 UB	< 0.041 UB	< 0.039 UB
Diphenamid	957-51-7	ug/L				--	< 0.025 U	< 0.023 U	< 0.023 U	< 0.023 U	< 0.023 U	< 0.024 U	< 0.025 U	< 0.023 U
Endosulfan I	959-98-8	ug/L				--	< 0.09 U	< 0.083 U	< 0.084 U	< 0.083 U	< 0.085 U	< 0.087 U	< 0.09 U	< 0.085 U
Endosulfan II	33213-65-9	ug/L				--	< 0.087 U	< 0.082 U	< 0.083 U	< 0.081 U	< 0.083 U	< 0.085 U	< 0.088 U	< 0.083 U
Endosulfan sulfate	1031-07-8	ug/L				--	< 0.051 U	< 0.048 U	< 0.049 U	< 0.048 U	< 0.049 U	< 0.05 U	< 0.052 U	< 0.049 U
Endrin	72-20-8	ug/L	2			--	< 0.074 U	< 0.069 U	< 0.07 U	< 0.069 U	< 0.07 U	< 0.072 U	< 0.074 U	< 0.07 U
Endrin aldehyde	7421-93-4	ug/L				--	< 0.14 U	< 0.13 U	< 0.14 U	< 0.13 U	< 0.14 U	< 0.14 U	< 0.14 U	< 0.14 U
EPTC	759-94-4	ug/L				--	< 0.026 U	< 0.024 U	< 0.024 U	< 0.024 U	< 0.024 U	< 0.025 U	< 0.026 U	< 0.024 U
Ethoprop	13194-48-4	ug/L				--	< 0.032 U	< 0.03 U	< 0.03 U	< 0.03 U	< 0.03 U	< 0.031 U	< 0.032 U	< 0.03 U
Etridiazole	2593-15-9	ug/L				--	< 0.057 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.054 U	< 0.055 U	< 0.057 U	< 0.053 U
Fenarimol	60168-88-9	ug/L				--	< 2 U	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	< 1.9 U	< 2 U	< 1.8 U
Fluoranthene	206-44-0	ug/L				--	< 0.021 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.02 U	< 0.021 U	< 0.019 U
Fluorene	86-73-7	ug/L				--	< 0.021 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.02 U	< 0.021 U	< 0.019 U
Fluridone	59756-60-4	ug/L				--	< 0.064 U	< 0.059 U	< 0.06 U	< 0.059 U	< 0.06 U	< 0.062 U	< 0.064 U	< 0.06 U
gamma-BHC (Lindane)	58-89-9	ug/L	0.2			--	< 0.083 U	< 0.078 U	< 0.079 U	< 0.077 U	< 0.079 U	< 0.081 U	< 0.083 U	< 0.079 U
gamma-Chlordane	5103-74-2	ug/L				--	< 0.046 U	< 0.043 U	< 0.044 U	< 0.043 U	< 0.044 U	< 0.045 U	< 0.046 U	< 0.044 U
Heptachlor	76-44-8	ug/L	0.4			--	< 0.056 U	< 0.052 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.054 U	< 0.056 U	< 0.053 U
Heptachlor epoxide	1024-57-3	ug/L	0.2			--	< 0.19 U	< 0.17 U	< 0.17 U	< 0.17 U	< 0.18 U	< 0.18 U	< 0.19 U	< 0.18 U
Hexachlorobenzene	118-74-1	ug/L	1			--	< 0.042 U	< 0.039 U	< 0.04 U	< 0.039 U	< 0.04 U	< 0.041 U	< 0.042 U	< 0.04 U
Hexachlorocyclopentadiene	77-47-4	ug/L	50			--	< 0.043 U	< 0.04 U	< 0.041 U	< 0.04 U	< 0.041 U	< 0.042 U	< 0.043 U	< 0.041 U
Hexazinone	51235-04-2	ug/L				--	< 0.024 U	< 0.022 U	< 0.022 U	< 0.022 U	< 0.022 U	< 0.023 U	< 0.024 U	< 0.022 U
Indeno[1,2,3-cd]pyrene	193-39-5	ug/L				--	< 0.036 U	< 0.034 U	< 0.034 U	< 0.033 U	< 0.034 U	< 0.035 U	< 0.036 U	< 0.034 U
Isophorone	78-59-1	ug/L				--	< 0.065 U	< 0.06 U	< 0.061 U	< 0.06 U	< 0.061 U	< 0.063 U	< 0.065 U	< 0.061 U
Methoxychlor	72-43-5	ug/L	40			--	< 0.044 U	< 0.041 U	< 0.042 U	< 0.041 U	< 0.042 U	< 0.043 U	< 0.044 U	< 0.042 U
Methyl paraoxon	950-35-6	ug/L				--	< 0.04 U	< 0.037 U	< 0.038 U	< 0.037 U	< 0.038 U	< 0.039 U	< 0.04 U	< 0.038 U
Metolachlor	51218-45-2	ug/L				--	< 0.021 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.02 U	< 0.021 U	< 0.019 U

Table 1
Non-Potable Water Analytical Data - Region 9
San Juan River Response

Analyte	CAS.NO	Units	MCLs	Ag Water Supply	Livestock Water Supply	Location	T052	T256	T31L	T901	T904	T904	T908	T912
						Sample ID	T052-090315-13	T256-090315-13	T31L-090315-13	T901-090315-13	T904-090315-13	T904-090315-14	T908-090315-13	T912-090315-13
						Date	9/3/2015	9/3/2015	9/3/2015	9/3/2015	9/3/2015	9/3/2015	9/3/2015	9/3/2015
						Sample Time	12:25	9:35	10:25	9:35	10:55	11:00	12:30	10:50
						Latitude	36.850847	36.77117	36.79226	36.77117	36.85779	36.85779	36.850847	36.85779
						Longitude	-108.780442	-108.69558	-108.68919	-108.69558	-108.74683	-108.74683	-108.780442	-108.74683
Metribuzin	21087-64-9	ug/L				--	< 0.023 U	< 0.021 U	< 0.021 U	< 0.021 U	< 0.021 U	< 0.022 U	< 0.023 U	< 0.021 U
Mevinphos	7786-34-7	ug/L				--	< 0.028 U	< 0.026 U	< 0.026 U	< 0.026 U	< 0.026 U	< 0.027 U	< 0.028 U	< 0.026 U
MGK 264 - isomer a	113-48-4	ug/L				--	< 0.058 U	< 0.054 U	< 0.054 U	< 0.054 U	< 0.055 U	< 0.056 U	< 0.058 U	< 0.054 U
MGK 264 - isomer b	113-48-4	ug/L				--	< 0.057 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.054 U	< 0.055 U	< 0.057 U	< 0.053 U
Molinate	2212-67-1	ug/L				--	< 0.039 U	< 0.036 U	< 0.037 U	< 0.036 U	< 0.037 U	< 0.038 U	< 0.039 U	< 0.037 U
Naphthalene	91-20-3	ug/L				--	< 0.021 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.02 U	0.031 J	< 0.019 U
Napropamide	15299-99-7	ug/L				--	< 0.021 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.02 U	< 0.021 U	< 0.019 U
Norflurazon	27314-13-2	ug/L				--	< 0.031 U	< 0.029 U	< 0.029 U	< 0.029 U	< 0.029 U	< 0.03 U	< 0.031 U	< 0.029 U
PCB-154	60145-22-4	ug/L				--	< 0.043 U	< 0.04 U	< 0.041 U	< 0.04 U	< 0.041 U	< 0.042 U	< 0.043 U	< 0.041 U
PCB-171	52663-71-5	ug/L				--	< 0.082 U	< 0.077 U	< 0.078 U	< 0.077 U	< 0.078 U	< 0.08 U	< 0.082 U	< 0.078 U
PCB-201	40186-71-8	ug/L				--	< 0.052 U	< 0.049 U	< 0.05 U	< 0.049 U	< 0.05 U	< 0.051 U	< 0.053 U	< 0.05 U
Pebulate	1114-71-2	ug/L				--	< 0.045 U	< 0.042 U	< 0.043 U	< 0.042 U	< 0.043 U	< 0.044 U	< 0.045 U	< 0.043 U
Phenanthrene	85-01-8	ug/L				--	< 0.021 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.02 U	< 0.021 U	< 0.019 U
Pronamide	23950-58-5	ug/L				--	< 0.027 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.026 U	< 0.027 U	< 0.025 U
Propachlor	1918-16-7	ug/L				--	< 0.026 U	< 0.024 U	< 0.024 U	< 0.024 U	< 0.024 U	< 0.025 U	< 0.026 U	< 0.024 U
Propazine	139-40-2	ug/L				--	< 0.041 U	< 0.038 U	< 0.039 U	< 0.038 U	< 0.039 U	< 0.04 U	< 0.041 U	< 0.039 U
Pyrene	129-00-0	ug/L				--	< 0.021 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.02 U	< 0.021 U	< 0.019 U
Simazine	122-34-9	ug/L	4			--	< 0.036 U	< 0.034 U	< 0.034 U	< 0.033 U	< 0.034 U	< 0.035 U	< 0.036 U	< 0.034 U
Terbacil	5902-51-2	ug/L				--	< 0.05 U	< 0.047 U	< 0.048 U	< 0.047 U	< 0.048 U	< 0.049 U	< 0.05 U	< 0.048 U
Tetrachlorvinphos (Stirophos)	961-11-5	ug/L				--	< 0.24 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.23 U	< 0.24 U	< 0.22 U
trans-Nonachlor	39765-80-5	ug/L				--	< 0.064 U	< 0.059 U	< 0.06 U	< 0.059 U	< 0.06 U	< 0.062 U	< 0.064 U	< 0.06 U
trans-Permethrin	51877-74-8	ug/L				--	< 0.029 U	< 0.027 U	< 0.027 U	< 0.027 U	< 0.027 U	< 0.028 U	< 0.029 U	< 0.027 U
Triadimefon	43121-43-3	ug/L				--	< 0.16 U	< 0.15 U	< 0.16 U	< 0.15 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U
Tricyclazole	41814-78-2	ug/L				--	< 0.048 U	< 0.045 U	< 0.046 U	< 0.045 U	< 0.046 U	< 0.047 U	< 0.048 U	< 0.046 U
Trifluralin	1582-09-8	ug/L				--	< 0.043 U	< 0.04 U	< 0.041 U	< 0.04 U	< 0.041 U	< 0.042 U	< 0.043 U	< 0.041 U
Vernolate	1929-77-7	ug/L				--	< 0.024 U	< 0.022 U	< 0.022 U	< 0.022 U	< 0.022 U	< 0.023 U	< 0.024 U	< 0.022 U
VOCs														
1,1,1,2-Tetrachloroethane	630-20-6	ug/L				--	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U
1,1,1-Trichloroethane	71-55-6	ug/L	200			--	< 0.15 U	< 0.15 U	< 0.15 U	< 0.15 U	< 0.15 U	< 0.15 U	< 0.15 U	< 0.15 U
1,1,2,2-Tetrachloroethane	79-34-5	ug/L				--	< 0.13 U	< 0.13 U	< 0.13 U	< 0.13 U	< 0.13 U	< 0.13 U	< 0.13 U	< 0.13 U
1,1,2-Trichloroethane	79-00-5	ug/L	5			--	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U
1,1-Dichloroethane	75-34-3	ug/L				--	< 0.078 U	< 0.078 U	< 0.078 U	< 0.078 U	< 0.078 U	< 0.078 U	< 0.078 U	< 0.078 U
1,1-Dichloroethene	75-35-4	ug/L	7			--	< 0.15 U	< 0.15 U	< 0.15 U	< 0.15 U	< 0.15 U	< 0.15 U	< 0.15 U	< 0.15 U
1,1-Dichloropropene	563-58-6	ug/L				--	< 0.095 U	< 0.095 U	< 0.095 U	< 0.095 U	< 0.095 U	< 0.095 U	< 0.095 U	< 0.095 U
1,2,3-Trichloropropane	96-18-4	ug/L				--	< 0.17 U	< 0.17 U	< 0.17 U	< 0.17 U	< 0.17 U	< 0.17 U	< 0.17 U	< 0.17 U
1,2,4-Trichlorobenzene	120-82-1	ug/L	70			--	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U
1,2-Dichlorobenzene	95-50-1	ug/L	600			--	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U
1,2-Dichloroethane	107-06-2	ug/L	5			--	< 0.086 U	< 0.086 U	< 0.086 U	< 0.086 U	< 0.086 U	< 0.086 U	< 0.086 U	< 0.086 U
1,2-Dichloropropane	78-87-5	ug/L	5			--	< 0.096 U	< 0.096 U	< 0.096 U	< 0.096 U	< 0.096 U	< 0.096 U	< 0.096 U	< 0.096 U
1,3-Dichlorobenzene	541-73-1	ug/L				--	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U
1,3-Dichloropropane	142-28-9	ug/L				--	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U
1,4-Dichlorobenzene	106-46-7	ug/L	75			--	< 0.13 U	< 0.13 U	< 0.13 U	< 0.13 U	< 0.13 U	< 0.13 U	< 0.13 U	< 0.13 U
2,2-Dichloropropane	594-20-7	ug/L				--	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
2-Chlorotoluene	95-49-8	ug/L				--	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U
4-Chlorotoluene	106-43-4	ug/L				--	< 0.13 U	< 0.13 U	< 0.13 U	< 0.13 U	< 0.13 U	< 0.13 U	< 0.13 U	< 0.13 U
Benzene	71-43-2	ug/L	5			--	< 0.082 U	< 0.082 U	< 0.082 U	< 0.082 U	< 0.082 U	< 0.082 U	< 0.082 U	< 0.082 U
Bromobenzene	108-86-1	ug/L				--	< 0.091 U	< 0.091 U	< 0.091 U	< 0.091 U	< 0.091 U	< 0.091 U	< 0.091 U	< 0.091 U
Bromoform	75-25-2	ug/L				--	< 0.17 U	< 0.17 U	< 0.17 U	< 0.17 U	< 0.17 U	< 0.17 U	< 0.17 U	< 0.17 U
Bromomethane	74-83-9	ug/L				--	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
Carbon tetrachloride	56-23-5	ug/L	5			--	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U
Chlorobenzene	108-90-7	ug/L	100			--	< 0.14 U	< 0.14 U	< 0.14 U	< 0.14 U	< 0.14 U	< 0.14 U	< 0.14 U	< 0.14 U
Chlorodibromomethane	124-48-1	ug/L	80			--	0.24 J	0.23 J	< 0.13 U	0.36 J	0.49 J	0.47 J	0.2 J	0.18 J

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San Juan River Response

Analyte	CAS.NO	Units	MCLs	Ag Water Supply	Livestock Water Supply	Location	T052	T256	T31L	T901	T904	T904	T908	T912
						Sample ID	T052-090315-13	T256-090315-13	T31L-090315-13	T901-090315-13	T904-090315-13	T904-090315-14	T908-090315-13	T912-090315-13
						Date	9/3/2015	9/3/2015	9/3/2015	9/3/2015	9/3/2015	9/3/2015	9/3/2015	9/3/2015
						Sample Time	12:25	9:35	10:25	9:35	10:55	11:00	12:30	10:50
						Latitude	36.850847	36.77117	36.79226	36.77117	36.85779	36.85779	36.850847	36.85779
						Longitude	-108.780442	-108.69558	-108.68919	-108.69558	-108.74683	-108.74683	-108.780442	-108.74683
Chloroethane	75-00-3	ug/L				--	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U
Chloroform	67-66-3	ug/L				--	34	24	4.4	34	40	40	16	34
Chloromethane	74-87-3	ug/L				--	< 0.15 U	< 0.15 U	< 0.15 U	< 0.15 U	< 0.15 U	< 0.15 U	< 0.15 U	< 0.15 U
cis-1,2-Dichloroethene	156-59-2	ug/L	70			--	< 0.09 U	< 0.09 U	< 0.09 U	< 0.09 U	< 0.09 U	< 0.09 U	< 0.09 U	< 0.09 U
cis-1,3-Dichloropropene	10061-01-5	ug/L				--	< 0.081 U	< 0.081 U	< 0.081 U	< 0.081 U	< 0.081 U	< 0.081 U	< 0.081 U	< 0.081 U
Dibromomethane	74-95-3	ug/L				--	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U
Dichlorobromomethane	75-27-4	ug/L				--	2.9	1.8	0.62	3.2	4.7	4.7	1.9	2
Ethylbenzene	100-41-4	ug/L	700			--	< 0.099 U	< 0.099 U	< 0.099 U	< 0.099 U	< 0.099 U	< 0.099 U	< 0.099 U	< 0.099 U
Methyl tert-butyl ether	1634-04-4	ug/L				--	< 0.093 U	< 0.093 U	< 0.093 U	< 0.093 U	< 0.093 U	< 0.093 U	< 0.093 U	< 0.093 U
Methylene Chloride	75-09-2	ug/L	5			--	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	0.54
m-Xylene & p-Xylene	179601-23-1	ug/L				--	< 0.15 U	< 0.15 U	< 0.15 U	< 0.15 U	< 0.15 U	< 0.15 U	< 0.15 U	< 0.15 U
o-Xylene	95-47-6	ug/L				--	< 0.086 U	< 0.086 U	< 0.086 U	< 0.086 U	< 0.086 U	< 0.086 U	< 0.086 U	< 0.086 U
Styrene	100-42-5	ug/L	100			--	< 0.089 U	< 0.089 U	< 0.089 U	< 0.089 U	< 0.089 U	< 0.089 U	< 0.089 U	< 0.089 U
Tetrachloroethene	127-18-4	ug/L	5			--	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U
Toluene	108-88-3	ug/L	1000			--	0.24 J	< 0.086 U	< 0.086 U	< 0.086 U	< 0.086 U	< 0.086 U	< 0.086 U	< 0.086 U
trans-1,2-Dichloroethene	156-60-5	ug/L	100			--	< 0.09 U	< 0.09 U	< 0.09 U	< 0.09 U	< 0.09 U	< 0.09 U	< 0.09 U	< 0.09 U
trans-1,3-Dichloropropene	10061-02-6	ug/L				--	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U
Trichloroethene	79-01-6	ug/L	5			--	< 0.13 U	< 0.13 U	< 0.13 U	< 0.13 U	< 0.13 U	< 0.13 U	< 0.13 U	< 0.13 U
Vinyl chloride	75-01-4	ug/L	2			--	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U
Xylenes, Total	1330-20-7	ug/L	10000			--	< 0.086 U	< 0.086 U	< 0.086 U	< 0.086 U	< 0.086 U	< 0.086 U	< 0.086 U	< 0.086 U