Table 1
RMV 216-21 Groundwater Monitoring
2013 Water Quality Data Summary

SAMPLE SUMMARY									
Location Description	RMV 216-21 GW Monitoring								
Sample Type	Groundwater								
LABORATORY DATA SUMMARY									
Sample ID	**CDPHE Regulation 41 Standards**	**COGCC Table 910-1 Standards**	**UNITS**	RMV 216-21 MW1	RMV 216-21 MW1	RMV 216-21 MW1	RMV 216-21 MW1	RMV 216-21 MW2	RMV 216-21 MW2
Depth to Water (feet)				84.45	84.54	84.56	84.45	79.2	NS
Sample Date				3/7/2013	6/25/2013	8/20/2013	11/21/2013	3/7/2013	6/25/2013
Analytical Parameters									
BTEX									
Benzene	5	5	ug/l	<0.20	<0.20	0.70J	<1.0	<0.20	NS
Toluene	560 to 1000	560 to 1000	ug/l	<1.0	<1.0	<1.0	<2.0	<1.0	NS
Ethylbenzene	700	700	ug/l	<1.0	<1.0	<1.0	<2.0	<1.0	NS
Xylene (total)	1400 to 10000	1400 to 10000	ug/l	<2.0	<2.0	<2.0	<2.0	<2.0	NS
Metals									
Calcium	NA	NA	mg/l	212	214	226	225	209	NS
Iron	0.3	NA	mg/l	<0.07	<0.07	<0.07	<0.070	<0.07	NS
Magnesium	NA	NA	mg/l	213	201	201	196	171	NS
Manganese	0.05	NA	mg/l	0.369	0.378	0.429	0.438	0.0488	NS
Potassium	23	NA	mg/l	6.34	5.24	5.65	10.2	6.43	NS
Selenium	0.05	NA	mg/l	<0.05	<0.05	<0.05	<0.050	<0.05	NS
Sodium	390	NA	mg/l	446	391	3.93	412	343	NS
General Chemistry									
Alkalinity, Bicarbonate as CaCO3	NA	NA	mg/l	726	577	559	569	638	NS
Alkalinity, Carbonate	NA	NA	mg/l	<5.0	<5.0	<5.0	<5.0	<5.0	NS
Alkalinity, Total as CaCO3	NA	NA	mg/l	729	577	559	569	638	NS
Chloride	250	1.25 x bkgd	mg/l	225	213	199	193	17	NS
Nitrogen, Nitrate	10	NA	mg/l	31.1	32	28.5	27.6	25.9	NS
Nitrogen Nitrite	1.0	NA	mg/l	0.15	0.16	0.12	0.14	<0.020[b]	NS
Solids, Total Dissolved	10,000	NA	mg/l	3210	3230	3160	3110	2780	NS
Sulfate	250	1.25 x bkgd	mg/l	1390	1460	1310	1310	1350	NS
pH	NA	NA	su	7.04	7.2	7.29	7.29	7.13	NS
Field Readings									
Temperature	NA	NA	deg. C	14.34	14.20	14.20	13.70	14.20	NS
Specific Conductivity	NA	NA	mS/cm	3.91	3.852	3.787	3.817	2.94	NS
Dissolved Oxygen	NA	NA	mg/l	1.05	1.26	0.75	0.45	0.81	NS
pH	NA	NA	su	7.60	7.29	7.51	7.12	7.04	NS
Solids, Total Dissolved	NA	NA	mg/l	2.5	2.5	2.4	2.4830	1.9	NS
Turbidity	NA	NA	NTU	5999	NT	NT	NT	5999	NS

ug/l -micrograms per liter
mg/l -milligrams per liter
J - indicates an estimated value
umhos/cm - micromhos per centimeter
mS/cm - millisiemens per centimenter
su - standard units
NA - not applicable
NTU - nephelometric turbidity units
NT - not tested

a - Dilution required due to matrix interference
b - Elevated detection limit due to matrix interference
c - Elevated detection limit due to dilution required for possible matrix interference

SAMPLE SUMMARY								
Location Description								
Sample Type								
LABORATORY DATA SUMMARY								
Sample ID	RMV 216-21 MW2	RMV 216-21 MW2	RMV 216-21 MW3	RMV 216-21 MW3	RMV 216-21 MW3	RMV 216-21 MW3	RMV 216-21 MW4	RMV 216-21 MW4
Depth to Water (feet)	NT	79.2	68.14	NS	NT	68.16	85.69	NS
Sample Date	8/20/2013	11/21/2013	3/7/2013	6/25/2013	8/20/2013	11/21/2013	3/7/2013	6/25/2013
Analytical Parameters								
BTEX								
Benzene	NT	NT	<0.20	NS	NT	NT	<0.20	NS
Toluene	NT	NT	<1.0	NS	NT	NT	<1.0	NS
Ethylbenzene	NT	NT	<1.0	NS	NT	NT	<1.0	NS
Xylene (total)	NT	NT	<2.0	NS	NT	NT	<2.0	NS
Metals								
Calcium	NT	NT	222	NS	NT	NT	225	NS
Iron	NT	NT	<0.07	NS	NT	NT	<0.07	NS
Magnesium	NT	NT	184	NS	NT	NT	183	NS
Manganese	NT	NT	0.137	NS	NT	NT	<0.005	NS
Potassium	NT	NT	6.62	NS	NT	NT	6.59	NS
Selenium	NT	NT	<0.05	NS	NT	NT	<0.05	NS
Sodium	NT	NT	358	NS	NT	NT	345	NS
General Chemistry								
Alkalinity, Bicarbonate as CaCO3	NT	NT	567	NS	NT	NT	577	NS
Alkalinity, Carbonate	NT	NT	<5.0	NS	NT	NT	<5.0	NS
Alkalinity, Total as CaCO3	NT	NT	567	NS	NT	NT	577	NS
Chloride	NT	NT	29.2	NS	NT	NT	15.6	NS
Nitrogen, Nitrate	NT	NT	44.9	NS	NT	NT	19.7	NS
Nitrogen Nitrite	NT	NT	0.04	NS	NT	NT	<0.020[b]	NS
Solids, Total Dissolved	NT	NT	2890	NS	NT	NT	2980	NS
Sulfate	NT	NT	1400	NS	NT	NT	1480	NS
pH	NT	NT	7.16	NS	NT	NT	7.14	NS
Field Readings								
Temperature	NT	NT	14.53	NS	NT	NT	14.37	NS
Specific Conductivity	NT	NT	3.36	NS	NT	NT	3.24	NS
Dissolved Oxygen	NT	NT	1.48	NS	NT	NT	2.21	NS
pH	NT	NT	7.67	NS	NT	NT	7.00	NS
Solids, Total Dissolved	NT	NT	2.2	NS	NT	NT	2.1	NS
Turbidity	NT	NT	1509	NS	NT	NT	2000	NS

ug/l -micrograms per liter
mg/l -milligrams per liter
J - indicates an estimated value
umhos/cm - micromhos per centimeter
mS/cm - millisiemens per centimenter
su - standard units
NA - not applicable
NTU - nephelometric turbidity units
NT - not tested

Table 1
RMV 216-21 Groundwater Monitoring
2013 Water Quality Data Summary

SAMPLE SUMMARY								
Location Description								
Sample Type								
LABORATORY DATA SUMMARY								
Sample ID	RMV 216-21 MW4	RMV 216-21 MW4	RMV 216-21 MW5	RMV 216-21 MWX	RMV 216-21 MW5	RMV 216-21 MW5	RMV 216-21 MW5	RMV 216-21 MW6
Depth to Water (feet)	NT	85.85	85.81	MW5 Duplicate	85.95	86.01	86	81.79
Sample Date	8/20/2013	11/21/2013	3/7/2013	3/7/2013	6/25/2013	8/20/2013	11/21/2013	3/7/2013
Analytical Parameters								
BTEX								
Benzene	NT	NT	<0.20	<0.20	<0.20	<0.20	<1.0	17.3
Toluene	NT	NT	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0
Ethylbenzene	NT	NT	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0
Xylene (total)	NT	NT	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Metals								
Calcium	NT	NT	221	221	222	238	243	217
Iron	NT	NT	<0.07	<0.07	<0.07	<0.07	0.158	<0.07
Magnesium	NT	NT	234	234	227	225	219	252
Manganese	NT	NT	0.123	0.124	0.113	0.117	0.112	0.182
Potassium	NT	NT	6.51	6.29	5.17	5.66	5.55	7.07
Selenium	NT	NT	<0.05	<0.05	<0.05	<0.05	<0.050	<0.05
Sodium	NT	NT	500	490	446	4.52	478	593
General Chemistry								
Alkalinity, Bicarbonate as CaCO3	NT	NT	565	548	525	536	524	1050
Alkalinity, Carbonate	NT	NT	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Alkalinity, Total as CaCO3	NT	NT	565	548	525	536	524	1050
Chloride	NT	NT	325	331	325	284	272	493
Nitrogen, Nitrate	NT	NT	33.1	33.4	33.7	31.8	30.6	35
Nitrogen Nitrite	NT	NT	0.031	0.043	<0.040	<0.020	<0.020	4.5
Solids, Total Dissolved	NT	NT	3470	3470	3530	3480	3380	3830
Sulfate	NT	NT	1480	1480	1490	1390	1390	1460
pH	NT	NT	7.07	7.12	7.47	7.26	7.26	7.04
Field Readings								
Temperature	NT	NT	26.37	26.37	14.10	14.40	14.00	18.93
Specific Conductivity	NT	NT	4.24	4.24	4.166	4.19	3.882	4.93
Dissolved Oxygen	NT	NT	1.65	1.65	0.58	0.32	0.34	1.3
pH	NT	NT	6.97	6.97	7.22	7.31	7.16	6.95
Solids, Total Dissolved	NT	NT	2.8	2.8	2.7	2.7	2.5285	3.2
Turbidity	NT	NT	11.3	11.3	NT	NT	NT	859

ug/l -micrograms per liter
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mS/cm - millisiemens per centimenter
su - standard units
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NTU - nephelometric turbidity units
NT - not tested

SAMPLE SUMMARY								
Location Description								
Sample Type								
LABORATORY DATA SUMMARY								
Sample ID	RMV 216-21 MW6	RMV 216-21 MW6	RMV 216-21 MW6	RMV 216-21 MW7	RMV 216-21 MW7	RMV 216-21 MW7	RMV 216-21 MW7	RMV 216-21 MW8
Depth to Water (feet)	82.89	82.91	82.83	90.79	90.95	91.0	91.1	88.23
Sample Date	6/25/2013	8/20/2013	11/21/2013	3/7/2013	6/25/2013	8/20/2013	11/21/2013	3/7/2013
Analytical Parameters								
BTEX								
Benzene	16.7	14.7	9.8	<0.20	<0.20	<0.20	<1.0	<0.20
Toluene	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<2.0	<1.0
Ethylbenzene	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<2.0	<1.0
Xylene (total)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Metals								
Calcium	212	231	233	224	220	233	239	202
Iron	<0.07	<0.07	<0.070	<0.07	<0.07	<0.07	<0.070	<0.07
Magnesium	234	250	244	219	206	209	201	248
Manganese	0.171	0.207	0.189	0.0076	0.0069	<0.005	<0.005	0.0133
Potassium	5.45	6.14	8.24	6.46	5.39	5.58	6	6.67
Selenium	<0.05	<0.05	<0.050	<0.05	<0.05	<0.05	<0.050	<0.05
Sodium	513	5.48	556	464	403	4.1	423	494
General Chemistry								
Alkalinity, Bicarbonate as CaCO3	827	599	584	727	615	563	553	822
Alkalinity, Carbonate	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Alkalinity, Total as CaCO3	827	599	584	727	615	563	553	822
Chloride	466	430	480	215	192	201	137	319
Nitrogen, Nitrate	35.3	33.2	31.6	24.6	25.9	23.8	21.8	33.9
Nitrogen Nitrite	4.1	4	4.2	0.024	<0.040	<0.020	<0.020	<0.020[b]
Solids, Total Dissolved	3570	3610	3670	3330	3270	3270	3130	3490
Sulfate	1440	1360	1350	1490	1530	1400	1390	1500
pH	7.23	7.27	7.19	7.15	7.29	7.3	7.27	7.17
Field Readings								
Temperature	15.10	14.80	14.00	13.77	14.40	14.50	13.90	17.48
Specific Conductivity	4.687	4.766	5.591	3.94	3.802	3.787	3.679	4.13
Dissolved Oxygen	0.2	1.02	0.57	2.17	2.01	1.7	1.54	1.6
pH	7.13	7.29	7.18	7.60	7.26	7.40	7.15	7.01
Solids, Total Dissolved	3.0	3.1	3.4515	2.5	2.5	2.5	2.3855	2.7
Turbidity	NT	NT	NT	1834	NT	NT	NT	568

ug/l -micrograms per liter
mg/l -milligrams per liter
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umhos/cm - micromhos per centimeter
mS/cm - millisiemens per centimenter
su - standard units
NA - not applicable
NTU - nephelometric turbidity units
NT - not tested

Table 1
RMV 216-21 Groundwater Monitoring
2013 Water Quality Data Summary

SAMPLE SUMMARY							
Location Description							
Sample Type							
LABORATORY DATA SUMMARY							
Sample ID	RMV 216-21 MW8	RMV 216-21 MW8	RMV 216-21 MW8	RMV 216-21 MW9	RMV 216-21 MW9	RMV 216-21 MW9	RMV 216-21 MW9
Depth to Water (feet)	88.34	88.36	88.36	81.54	81.66	81.72	81.69
Sample Date	6/25/2013	8/20/2013	11/21/2013	3/7/2013	6/25/2013	8/20/2013	11/21/2013
Analytical Parameters							
BTEX							
Benzene	<0.20	<0.20	<1.0	2.9	4.9	6.1	4.3
Toluene	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<2.0
Ethylbenzene	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<2.0
Xylene (total)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Metals							
Calcium	199	203	218	256	236	259	255
Iron	<0.07	<0.07	<0.070	<0.07	<0.07	<0.07	<0.070
Magnesium	236	222	233	266	245	248	242
Manganese	0.0168	0.0177	0.0205	0.0933	0.1340	0.1160	0.1290
Potassium	5.5	5.63	7.19	7.73	6.2	6.56	7.65
Selenium	<0.05	<0.05	<0.050	<0.05	<0.05	<0.05	0.0501
Sodium	4.41	4.27	496	502	457	4.43	492
General Chemistry							
Alkalinity, Bicarbonate as CaCO3	541	569	528	975	576	610	644
Alkalinity, Carbonate	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Alkalinity, Total as CaCO3	541	569	528	975	576	610	644
Chloride	296	282	304	427	383	337	325
Nitrogen, Nitrate	33.4	31.9	31.7	46.8	45.8	43.1	40.5
Nitrogen Nitrite	<0.040	<0.020	<0.020	3.3	2.7	2.7	2.2
Solids, Total Dissolved	3490	3420	3380	3830	3710	3570	3620
Sulfate	1440	1370	1420	1560	1540	1430	1420
pH	7.25	7.34	7.32	7.03	7.28	7.27	7.13
Field Readings							
Temperature	14.30	14.40	14.00	14.31	15.30	14.50	14.00
Specific Conductivity	4.146	4.123	3.987	4.79	4.47	4.491	4.334
Dissolved Oxygen	0.78	0.61	0.84	0.92	0.52	0.41	0.43
pH	7.25	7.40	7.25	7.62	7.17	7.40	7.09
Solids, Total Dissolved	2.7	2.7	2.5870	3.1	2.9	2.9	2.8080
Turbidity	NT	NT	NT	2000	NT	NT	NT

ug/l -micrograms per liter
mg/l -milligrams per liter
J - indicates an estimated value
umhos/cm - micromhos per centimeter
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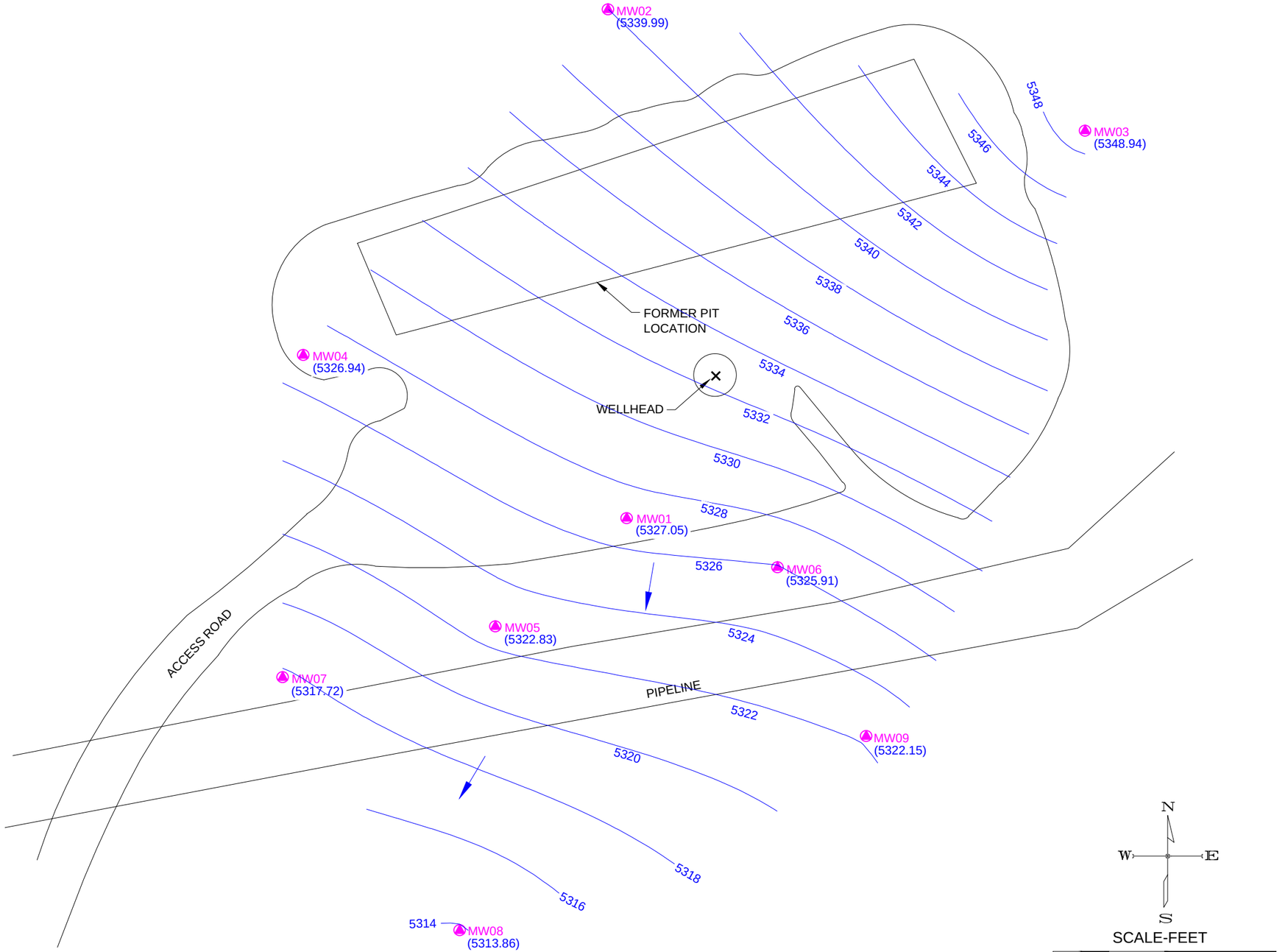
su - standard units
NA - not applicable
NTU - nephelometric turbidity units
NT - not tested



LEGEND:

MW01	MONITORING WELL/BOREHOLE
5325.0	GROUNDWATER ELEVATION CONTOUR (FT-MSL)
(5325.55)	GROUNDWATER ELEVATION (FT-MSL)
	GROUNDWATER FLOW DIRECTION
NS	NOT SAMPLED

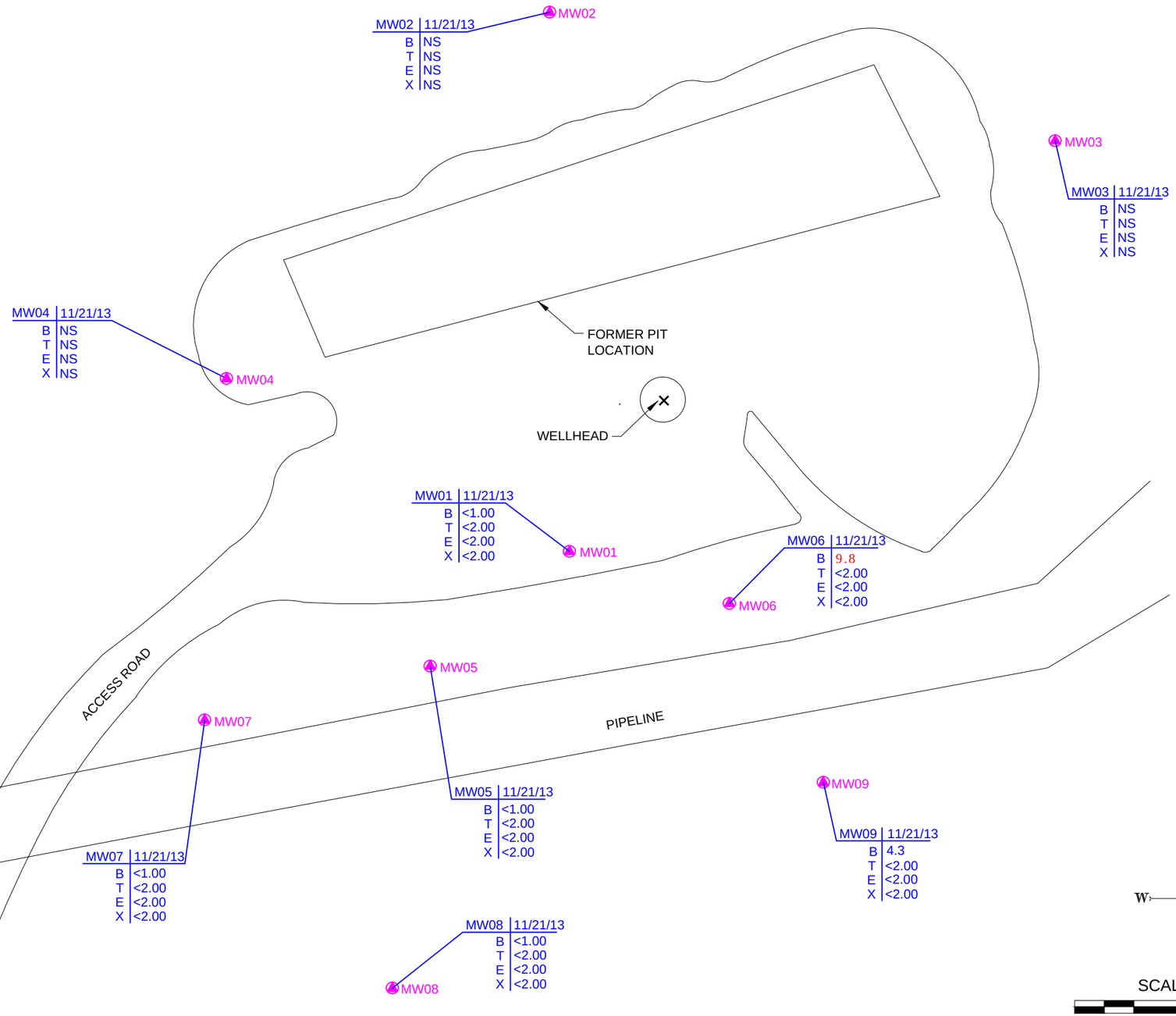
PROJECT NO:	012-1539
DRAWN BY:	BRN
DATE:	01.07.2014

POTENTIOMETRIC SURFACE MAP - NOVEMBER 2013
WPX RMV 216-21
WPX ENERGY ROCKY MOUNTAIN, LLC
GARFIELD COUNTY, COLORADO

OLSSON ASSOCIATES
760 Horizon Drive, Ste. 102
Grand Junction, CO 81506
TEL 970.263.7800
FAX 970.263.7456

FIGURE
2

F:\Projects\012-1539_CMRR\Exhibits\2013\2013 Q4\Fig 2_121539_Q4_2013_PS.dwg Layout: P SURF



LEGEND:

MW01 MONITORING WELL/BOREHOLE

CHEMICAL DATA

B = BENZENE (ug/l)
T = TOLUENE (ug/l)
E = ETHYLBENZENE (ug/l)
X = XYLENES (ug/l)
BOLD = EXCEEDS COGCC GROUNDWATER CLEANUP LEVEL
NS = NOT SAMPLED

PROJECT NO:	012-1539
DRAWN BY:	BRN
DATE:	01.07.2014

GROUNDWATER ANALYTICAL RESULTS - NOVEMBER 2013
WPX RMV 216-21
WPX ENERGY ROCKY MOUNTAIN, LLC
GARFIELD COUNTY, COLORADO

OLSSON ASSOCIATES
760 Horizon Drive, Ste. 102
Grand Junction, CO 81506
TEL 970.263.7800
FAX 970.263.7456

FIGURE
3

F:\Projects\012-1539_CMRR\Exhibits\2013\2013 Q4\Fig 3_121539_Q4_2013_GWA.dwg Layout: GWA

Table 1
RMV 216-21 Groundwater Monitoring
2013 Water Quality Data Summary

SAMPLE SUMMARY	
Location Description	RMV 216-21 GW Monitoring
Sample Type	Groundwater

LABORATORY DATA SUMMARY												
Sample ID	**CDPHE Regulation 41 Standards**	**COGCC Table 910-1 Standards**		RMV 216-21 MW1	RMV 216-21 MW2	RMV 216-21 MW3	RMV 216-21 MW4	RMV 216-21 MW5	RMV 216-21 MW6	RMV 216-21 MW7	RMV 216-21 MW8	RMV 216-21 MW9
Depth to Water (feet)				84.45	79.2	68.16	85.85	86	82.83	91.1	88.36	81.69
Sample Date				11/21/2013	11/21/2013	11/21/2013	11/21/2013	11/21/2013	11/21/2013	11/21/2013	11/21/2013	11/21/2013
Analytical Parameters												
BTEX												
Benzene	5	5	ug/l	<1.0	NT	NT	NT	<1.0	9.8	<1.0	<1.0	4.3
Toluene	560 to 1000	560 to 1000	ug/l	<2.0	NT	NT	NT	<2.0	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	700	700	ug/l	<2.0	NT	NT	NT	<2.0	<2.0	<2.0	<2.0	<2.0
Xylene (total)	1400 to 10000	1400 to 10000	ug/l	<2.0	NT	NT	NT	<2.0	<2.0	<2.0	<2.0	<2.0
Calcium	NA	NA	mg/l	225	NT	NT	NT	243	233	239	218	255
Iron	0.3	NA	mg/l	<0.070	NT	NT	NT	0.158	<0.070	<0.070	<0.070	<0.070
Magnesium	NA	NA	mg/l	196	NT	NT	NT	219	244	201	233	242
Manganese	0.05	NA	mg/l	0.438	NT	NT	NT	0.112	0.189	<0.005	0.0205	0.1290
Potassium	23	NA	mg/l	10.2	NT	NT	NT	5.55	8.24	6	7.19	7.65
Selenium	0.05	NA	mg/l	<0.050	NT	NT	NT	<0.050	<0.050	<0.050	<0.050	0.0501
Sodium	390	NA	mg/l	412	NT	NT	NT	478	556	423	496	492
General Chemistry												
Alkalinity, Bicarbonate as CaCO3	NA	NA	mg/l	569	NT	NT	NT	524	584	553	528	644
Alkalinity, Carbonate	NA	NA	mg/l	<5.0	NT	NT	NT	<5.0	<5.0	<5.0	<5.0	<5.0
Alkalinity, Total as CaCO3	NA	NA	mg/l	569	NT	NT	NT	524	584	553	528	644
Chloride	250	1.25 x bkgd	mg/l	193	NT	NT	NT	272	480	137	304	325
Nitrogen, Nitrate	10	NA	mg/l	27.6	NT	NT	NT	30.6	31.6	21.8	31.7	40.5
Nitrogen Nitrite	1.0	NA	mg/l	0.14	NT	NT	NT	<0.020	4.2	<0.020	<0.020	2.2
Solids, Total Dissolved	10,000	NA	mg/l	3110	NT	NT	NT	3380	3670	3130	3380	3620
Sulfate	250	1.25 x bkgd	mg/l	1310	NT	NT	NT	1390	1350	1390	1420	1420
pH	NA	NA	su	7.29	NT	NT	NT	7.26	7.19	7.27	7.32	7.13
Field Readings												
Temperature	NA	NA	deg. C	13.70	NT	NT	NT	14.00	14.00	13.90	14.00	14.00
Specific Conductivity	NA	NA	mS/cm	3.817	NT	NT	NT	3.882	5.591	3.679	3.987	4.334
Dissolved Oxygen	NA	NA	mg/l	0.45	NT	NT	NT	0.34	0.57	1.54	0.84	0.43
pH	NA	NA	su	7.12	NT	NT	NT	7.16	7.18	7.15	7.25	7.09
Solids, Total Dissolved	NA	NA	mg/l	2.4830	NT	NT	NT	2.5285	3.4515	2.3855	2.5870	2.8080
Turbidity	NA	NA	NTU	NT	NT	NT	NT	NT	NT	NT	NT	NT

ug/l -micrograms per liter
mg/l -milligrams per liter
J - indicates an estimated value
umhos/cm - micromhos per centimeter
mS/cm - millisiemens per centimenter
su - standard units
NA - not applicable
NTU - nephelometric turbidity units
NT - not tested

a - Dilution required due to matrix interference
b - Elevated detection limit due to matrix interference
c - Elevated detection limit due to dilution required for possible matrix interference

Mountain States ACCUTEST LABORATORIES

12/03/13

Technical Report for

WPX Energy Rocky Mountain, LLC

CORCCOGJ: RMV 216-21 GW Monitoring(012.1539)

Accutest Job Number: D52877

Sampling Date: 11/21/13

Report to:

Olsson Associates
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ATTN: Tim Dobransky

Total number of pages in report: **52**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Scott Heideman
Laboratory Director

Client Service contact: Renea Jackson 303-425-6021

Certifications: CO (CO00049), ID, NE (CO00049), ND (R-027), NJ (CO 0007), OK (D9942), UT (NELAP CO00049), TX (T104704511)

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Sample Summary

WPX Energy Rocky Mountain, LLC

Job No: D52877

CORCCOGJ: RMV 216-21 GW Monitoring(012.1539)

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
D52877-1	11/21/13	09:15	JS	11/22/13	AQ	Ground Water	RMV 216-21 MW1
D52877-1F	11/21/13	09:15	JS	11/22/13	AQ	Groundwater Filtered	RMV 216-21 MW1
D52877-2	11/21/13	09:40	JS	11/22/13	AQ	Ground Water	RMV 216-21 MW5
D52877-2F	11/21/13	09:40	JS	11/22/13	AQ	Groundwater Filtered	RMV 216-21 MW5
D52877-3	11/21/13	10:05	JS	11/22/13	AQ	Ground Water	RMV 216-21 MW6
D52877-3F	11/21/13	10:05	JS	11/22/13	AQ	Groundwater Filtered	RMV 216-21 MW6
D52877-4	11/21/13	09:40	JS	11/22/13	AQ	Ground Water	RMV 216-21 MW7
D52877-4F	11/21/13	09:40	JS	11/22/13	AQ	Groundwater Filtered	RMV 216-21 MW7
D52877-5	11/21/13	08:55	JS	11/22/13	AQ	Ground Water	RMV 216-21 MW8
D52877-5F	11/21/13	08:55	JS	11/22/13	AQ	Groundwater Filtered	RMV 216-21 MW8
D52877-6	11/21/13	09:00	JS	11/22/13	AQ	Ground Water	RMV 216-21 MW9
D52877-6F	11/21/13	09:00	JS	11/22/13	AQ	Groundwater Filtered	RMV 216-21 MW9
D52877-7	11/21/13	00:00	JS	11/22/13	AQ	Trip Blank Water	TRIP BLANK

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	WPX Energy Rocky Mountain, LLC	**Job No**	D52877
Site:	CORCCOGJ: RMV 216-21 GW Monitoring(012.1539)	**Report Date**	12/3/2013 1:06:54 PM

On 11/22/2013, 6 sample(s), 1 Trip Blank(s), and 0 Field Blank(s) were received at Accutest Mountain States (AMS) at a temperature of 1.1 °C. The samples were intact and properly preserved, unless noted below. An AMS Job Number of D52877 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GC By Method SW846 8021B

Matrix AQ **Batch ID:** GTA1139

- All samples were analyzed within the recommended method holding time.
- Sample(s) D52652-36MS, D52652-36MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- D52877-6: The pH of the sample was >2 at time of analysis.
- D52877-3: The pH of the sample was >2 at time of analysis.

Metals By Method SW846 6010C

Matrix AQ **Batch ID:** MP11797

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D52877-2FMS, D52877-2FMSD, D52877-2FSDL were used as the QC samples for the metals analysis.
- The matrix spike (MS) recovery(s) of Sodium are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
- The serial dilution RPD(s) for Iron are outside control limits for sample MP11797-SD1. Probable cause due to sample homogeneity.
- MP11797-SD1 for Iron: Serial dilution indicates possible matrix interference.

Wet Chemistry By Method EPA 300.0/SW846 9056

Matrix AQ **Batch ID:** GP11462

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D52877-3MS, D52877-3MSD were used as the QC samples for the Chloride, Nitrogen, Nitrate, Nitrogen, Nitrite, Sulfate, Chloride analysis.
- D52877-5 for Nitrogen, Nitrite: Elevated detection limit due to matrix interference.
- D52877-4 for Nitrogen, Nitrite: Elevated detection limit due to matrix interference.
- D52877-2 for Nitrogen, Nitrite: Elevated detection limit due to matrix interference.

Matrix AQ **Batch ID:** R19570

- The data for EPA 300.0/SW846 9056 meets quality control requirements.
- D52877-1 for Nitrogen, Nitrate + Nitrite: Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

Matrix AQ **Batch ID:** R19571

- The data for EPA 300.0/SW846 9056 meets quality control requirements.
- D52877-2 for Nitrogen, Nitrate + Nitrite: Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

Matrix AQ **Batch ID:** R19572

- The data for EPA 300.0/SW846 9056 meets quality control requirements.
- D52877-4 for Nitrogen, Nitrate + Nitrite: Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

Matrix AQ **Batch ID:** R19573

- The data for EPA 300.0/SW846 9056 meets quality control requirements.
- D52877-5 for Nitrogen, Nitrate + Nitrite: Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

Matrix AQ **Batch ID:** R19574

- The data for EPA 300.0/SW846 9056 meets quality control requirements.
- D52877-6 for Nitrogen, Nitrate + Nitrite: Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

Matrix AQ **Batch ID:** R19575

- The data for EPA 300.0/SW846 9056 meets quality control requirements.
- D52877-3 for Nitrogen, Nitrate + Nitrite: Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

Wet Chemistry By Method SM 2320B-2011

Matrix AQ **Batch ID:** GN22852

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D52760-1MS, D52760-1MSD, D52830-7DUP were used as the QC samples for the Alkalinity, Total as CaCO3 analysis.

Matrix AQ **Batch ID:** GN22853

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Matrix AQ **Batch ID:** GN22854

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Wet Chemistry By Method SM 2540C-2011

Matrix AQ **Batch ID:** GN22824

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D52877-1DUP, D52877-4DUP, D52877-5DUP were used as the QC samples for the Solids, Total Dissolved analysis.

Wet Chemistry By Method SM 5310B-2011

Matrix AQ **Batch ID:** GP11467

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D52877-4DUP, D52877-4MS, D52877-4MSD were used as the QC samples for the Total Organic Carbon analysis.

Wet Chemistry By Method SM4500HB+-2011/9040C

Matrix AQ **Batch ID:** GN22833

- The following samples were run outside of holding time for method SM4500HB+-2011/9040C: D52877-1, D52877-2, D52877-3, D52877-4, D52877-5, D52877-6

AMS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting AMS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

AMS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by AMS indicated via signature on the report cover.

Summary of Hits

Job Number: D52877
Account: WPX Energy Rocky Mountain, LLC
Project: CORCCOGJ: RMV 216-21 GW Monitoring(012.1539)
Collected: 11/21/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
D52877-1	**RMV 216-21 MW1**					
Alkalinity, Bicarbonate as CaCO3		569	5.0		mg/l	SM 2320B-2011
Alkalinity, Total as CaCO3		569	5.0		mg/l	SM 2320B-2011
Chloride		193	50		mg/l	EPA 300.0/SW846 9056
Nitrogen, Nitrate		27.6	1.0		mg/l	EPA 300.0/SW846 9056
Nitrogen, Nitrate + Nitrite [a]		27.7	1.0		mg/l	EPA 300.0/SW846 9056
Nitrogen, Nitrite		0.14	0.020		mg/l	EPA 300.0/SW846 9056
Solids, Total Dissolved		3110	10		mg/l	SM 2540C-2011
Sulfate		1310	50		mg/l	EPA 300.0/SW846 9056
Total Organic Carbon		6.6	1.0		mg/l	SM 5310B-2011
pH		7.29			su	SM4500HB+ -2011/9040C
D52877-1F	**RMV 216-21 MW1**					
Calcium		225000	400		ug/l	SW846 6010C
Magnesium		196000	200		ug/l	SW846 6010C
Manganese		438	5.0		ug/l	SW846 6010C
Potassium		10200	5000		ug/l	SW846 6010C
Sodium		412000	2000		ug/l	SW846 6010C
D52877-2	**RMV 216-21 MW5**					
Alkalinity, Bicarbonate as CaCO3		524	5.0		mg/l	SM 2320B-2011
Alkalinity, Total as CaCO3		524	5.0		mg/l	SM 2320B-2011
Chloride		272	50		mg/l	EPA 300.0/SW846 9056
Nitrogen, Nitrate		30.6	1.0		mg/l	EPA 300.0/SW846 9056
Nitrogen, Nitrate + Nitrite [a]		30.6	1.0		mg/l	EPA 300.0/SW846 9056
Solids, Total Dissolved		3380	10		mg/l	SM 2540C-2011
Sulfate		1390	50		mg/l	EPA 300.0/SW846 9056
Total Organic Carbon		5.8	1.0		mg/l	SM 5310B-2011
pH		7.26			su	SM4500HB+ -2011/9040C
D52877-2F	**RMV 216-21 MW5**					
Calcium		243000	400		ug/l	SW846 6010C
Iron		158	70		ug/l	SW846 6010C
Magnesium		219000	200		ug/l	SW846 6010C
Manganese		112	5.0		ug/l	SW846 6010C
Potassium		5550	5000		ug/l	SW846 6010C
Sodium		478000	2000		ug/l	SW846 6010C
D52877-3	**RMV 216-21 MW6**					
Benzene [b]		9.8	1.0	0.20	ug/l	SW846 8021B

Summary of Hits

Job Number: D52877
Account: WPX Energy Rocky Mountain, LLC
Project: CORCCOGJ: RMV 216-21 GW Monitoring(012.1539)
Collected: 11/21/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Alkalinity, Bicarbonate as CaCO3		584	5.0		mg/l	SM 2320B-2011
Alkalinity, Total as CaCO3		584	5.0		mg/l	SM 2320B-2011
Chloride		480	50		mg/l	EPA 300.0/SW846 9056
Nitrogen, Nitrate		31.6	1.0		mg/l	EPA 300.0/SW846 9056
Nitrogen, Nitrate + Nitrite [a]		35.8	1.4		mg/l	EPA 300.0/SW846 9056
Nitrogen, Nitrite		4.2	0.40		mg/l	EPA 300.0/SW846 9056
Solids, Total Dissolved		3670	10		mg/l	SM 2540C-2011
Sulfate		1350	50		mg/l	EPA 300.0/SW846 9056
Total Organic Carbon		7.5	1.0		mg/l	SM 5310B-2011
pH		7.19			su	SM4500HB+ -2011/9040C
D52877-3F	**RMV 216-21 MW6**					
Calcium		233000	400		ug/l	SW846 6010C
Magnesium		244000	200		ug/l	SW846 6010C
Manganese		189	5.0		ug/l	SW846 6010C
Potassium		8240	5000		ug/l	SW846 6010C
Sodium		556000	2000		ug/l	SW846 6010C
D52877-4	**RMV 216-21 MW7**					
Alkalinity, Bicarbonate as CaCO3		553	5.0		mg/l	SM 2320B-2011
Alkalinity, Total as CaCO3		553	5.0		mg/l	SM 2320B-2011
Chloride		137	2.5		mg/l	EPA 300.0/SW846 9056
Nitrogen, Nitrate		21.8	1.0		mg/l	EPA 300.0/SW846 9056
Nitrogen, Nitrate + Nitrite [a]		21.8	1.0		mg/l	EPA 300.0/SW846 9056
Solids, Total Dissolved		3130	10		mg/l	SM 2540C-2011
Sulfate		1390	50		mg/l	EPA 300.0/SW846 9056
Total Organic Carbon		5.8	1.0		mg/l	SM 5310B-2011
pH		7.27			su	SM4500HB+ -2011/9040C
D52877-4F	**RMV 216-21 MW7**					
Calcium		239000	400		ug/l	SW846 6010C
Magnesium		201000	200		ug/l	SW846 6010C
Potassium		6000	5000		ug/l	SW846 6010C
Sodium		423000	2000		ug/l	SW846 6010C
D52877-5	**RMV 216-21 MW8**					
Alkalinity, Bicarbonate as CaCO3		528	5.0		mg/l	SM 2320B-2011
Alkalinity, Total as CaCO3		528	5.0		mg/l	SM 2320B-2011
Chloride		304	50		mg/l	EPA 300.0/SW846 9056
Nitrogen, Nitrate		31.7	1.0		mg/l	EPA 300.0/SW846 9056
Nitrogen, Nitrate + Nitrite [a]		31.7	1.0		mg/l	EPA 300.0/SW846 9056

Summary of Hits

Job Number: D52877
Account: WPX Energy Rocky Mountain, LLC
Project: CORCCOGJ: RMV 216-21 GW Monitoring(012.1539)
Collected: 11/21/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Solids, Total Dissolved		3380	10		mg/l	SM 2540C-2011
Sulfate		1420	50		mg/l	EPA 300.0/SW846 9056
Total Organic Carbon		6.1	1.0		mg/l	SM 5310B-2011
pH		7.32			su	SM4500HB+ -2011/9040C
D52877-5F	**RMV 216-21 MW8**					
Calcium		218000	400		ug/l	SW846 6010C
Magnesium		233000	200		ug/l	SW846 6010C
Manganese		20.5	5.0		ug/l	SW846 6010C
Potassium		7190	5000		ug/l	SW846 6010C
Sodium		496000	2000		ug/l	SW846 6010C
D52877-6	**RMV 216-21 MW9**					
Benzene [b]		4.3	1.0	0.20	ug/l	SW846 8021B
Alkalinity, Bicarbonate as CaCO3		644	5.0		mg/l	SM 2320B-2011
Alkalinity, Total as CaCO3		644	5.0		mg/l	SM 2320B-2011
Chloride		325	50		mg/l	EPA 300.0/SW846 9056
Nitrogen, Nitrate		40.5	1.0		mg/l	EPA 300.0/SW846 9056
Nitrogen, Nitrate + Nitrite [a]		42.7	1.0		mg/l	EPA 300.0/SW846 9056
Nitrogen, Nitrite		2.2	0.020		mg/l	EPA 300.0/SW846 9056
Solids, Total Dissolved		3620	10		mg/l	SM 2540C-2011
Sulfate		1420	50		mg/l	EPA 300.0/SW846 9056
Total Organic Carbon		7.6	1.0		mg/l	SM 5310B-2011
pH		7.13			su	SM4500HB+ -2011/9040C
D52877-6F	**RMV 216-21 MW9**					
Calcium		255000	400		ug/l	SW846 6010C
Magnesium		242000	200		ug/l	SW846 6010C
Manganese		129	5.0		ug/l	SW846 6010C
Potassium		7650	5000		ug/l	SW846 6010C
Selenium		50.1	50		ug/l	SW846 6010C
Sodium		492000	2000		ug/l	SW846 6010C
D52877-7	**TRIP BLANK**					

No hits reported in this sample.

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)
(b) The pH of the sample was > 2 at time of analysis.

Mountain States ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	RMV 216-21 MW1		
Lab Sample ID:	D52877-1	**Date Sampled:**	11/21/13
Matrix:	AQ - Ground Water	**Date Received:**	11/22/13
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	CORCCOGJ: RMV 216-21 GW Monitoring(012.1539)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TA20306.D	1	12/02/13	EV	n/a	n/a	GTA1139
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	2.0	1.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	94%		60-140%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RMV 216-21 MW1
Lab Sample ID: D52877-1
Matrix: AQ - Ground Water
Project: CORCCOGJ: RMV 216-21 GW Monitoring(012.1539)

Date Sampled: 11/21/13
Date Received: 11/22/13
Percent Solids: n/a

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate as CaC	569	5.0	mg/l	1	11/26/13	JD	SM 2320B-2011
Alkalinity, Carbonate	< 5.0	5.0	mg/l	1	11/26/13	JD	SM 2320B-2011
Alkalinity, Total as CaCO3	569	5.0	mg/l	1	11/26/13	JD	SM 2320B-2011
Chloride	193	50	mg/l	100	11/22/13 16:28	SK	EPA 300.0/SW846 9056
Nitrogen, Nitrate	27.6	1.0	mg/l	100	11/22/13 16:28	SK	EPA 300.0/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	27.7	1.0	mg/l	1	11/22/13 16:28	SK	EPA 300.0/SW846 9056
Nitrogen, Nitrite	0.14	0.020	mg/l	5	11/22/13 13:45	SK	EPA 300.0/SW846 9056
Solids, Total Dissolved	3110	10	mg/l	1	11/25/13	AK	SM 2540C-2011
Sulfate	1310	50	mg/l	100	11/22/13 16:28	SK	EPA 300.0/SW846 9056
Total Organic Carbon	6.6	1.0	mg/l	1	11/25/13 15:16	GH	SM 5310B-2011
pH	7.29		su	1	11/25/13 15:00	KB	SM4500HB+ -2011/9040C

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	RMV 216-21 MW1		
Lab Sample ID:	D52877-1F	**Date Sampled:**	11/21/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	11/22/13
		Percent Solids:	n/a
Project:	CORCCOGJ: RMV 216-21 GW Monitoring(012.1539)		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	225000	400	ug/l	1	11/25/13	11/25/13	JM	SW846 6010C [1]	SW846 3010A [3]
Iron	< 70	70	ug/l	1	11/25/13	11/25/13	JM	SW846 6010C [1]	SW846 3010A [3]
Magnesium	196000	200	ug/l	1	11/25/13	11/25/13	JM	SW846 6010C [1]	SW846 3010A [3]
Manganese	438	5.0	ug/l	1	11/25/13	11/25/13	JM	SW846 6010C [1]	SW846 3010A [3]
Potassium	10200	5000	ug/l	5	11/25/13	11/26/13	JM	SW846 6010C [2]	SW846 3010A [3]
Selenium	< 50	50	ug/l	1	11/25/13	11/25/13	JM	SW846 6010C [1]	SW846 3010A [3]
Sodium	412000	2000	ug/l	5	11/25/13	11/26/13	JM	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA4244
(2) Instrument QC Batch: MA4249
(3) Prep QC Batch: MP11797

RL = Reporting Limit

Report of Analysis

Client Sample ID:	RMV 216-21 MW5		
Lab Sample ID:	D52877-2	**Date Sampled:**	11/21/13
Matrix:	AQ - Ground Water	**Date Received:**	11/22/13
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	CORCCOGJ: RMV 216-21 GW Monitoring(012.1539)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TA20305.D	1	12/02/13	EV	n/a	n/a	GTA1139
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	2.0	1.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	89%		60-140%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RMV 216-21 MW5
Lab Sample ID: D52877-2
Matrix: AQ - Ground Water
Project: CORCCOGJ: RMV 216-21 GW Monitoring(012.1539)

Date Sampled: 11/21/13
Date Received: 11/22/13
Percent Solids: n/a

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate as CaC	524	5.0	mg/l	1	11/26/13	JD	SM 2320B-2011
Alkalinity, Carbonate	< 5.0	5.0	mg/l	1	11/26/13	JD	SM 2320B-2011
Alkalinity, Total as CaCO3	524	5.0	mg/l	1	11/26/13	JD	SM 2320B-2011
Chloride	272	50	mg/l	100	11/22/13 16:39	SK	EPA 300.0/SW846 9056
Nitrogen, Nitrate	30.6	1.0	mg/l	100	11/22/13 16:39	SK	EPA 300.0/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	30.6	1.0	mg/l	1	11/22/13 16:39	SK	EPA 300.0/SW846 9056
Nitrogen, Nitrite [b]	< 0.020	0.020	mg/l	5	11/22/13 13:57	SK	EPA 300.0/SW846 9056
Solids, Total Dissolved	3380	10	mg/l	1	11/25/13	AK	SM 2540C-2011
Sulfate	1390	50	mg/l	100	11/22/13 16:39	SK	EPA 300.0/SW846 9056
Total Organic Carbon	5.8	1.0	mg/l	1	11/25/13 15:29	GH	SM 5310B-2011
pH	7.26		su	1	11/25/13 15:00	KB	SM4500HB+ -2011/9040C

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)
(b) Elevated detection limit due to matrix interference.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	RMV 216-21 MW5		
Lab Sample ID:	D52877-2F	**Date Sampled:**	11/21/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	11/22/13
		Percent Solids:	n/a
Project:	CORCCOGJ: RMV 216-21 GW Monitoring(012.1539)		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	243000	400	ug/l	1	11/25/13	11/25/13	JM	SW846 6010C [1]	SW846 3010A [3]
Iron	158	70	ug/l	1	11/25/13	11/25/13	JM	SW846 6010C [1]	SW846 3010A [3]
Magnesium	219000	200	ug/l	1	11/25/13	11/25/13	JM	SW846 6010C [1]	SW846 3010A [3]
Manganese	112	5.0	ug/l	1	11/25/13	11/25/13	JM	SW846 6010C [1]	SW846 3010A [3]
Potassium	5550	5000	ug/l	5	11/25/13	11/26/13	JM	SW846 6010C [2]	SW846 3010A [3]
Selenium	< 50	50	ug/l	1	11/25/13	11/25/13	JM	SW846 6010C [1]	SW846 3010A [3]
Sodium	478000	2000	ug/l	5	11/25/13	11/26/13	JM	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA4244
(2) Instrument QC Batch: MA4249
(3) Prep QC Batch: MP11797

RL = Reporting Limit

Report of Analysis

Client Sample ID:	RMV 216-21 MW6		
Lab Sample ID:	D52877-3	**Date Sampled:**	11/21/13
Matrix:	AQ - Ground Water	**Date Received:**	11/22/13
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	CORCCOGJ: RMV 216-21 GW Monitoring(012.1539)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	TA20304.D	1	12/02/13	EV	n/a	n/a	GTA1139
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	9.8	1.0	0.20	ug/l	
108-88-3	Toluene	ND	2.0	1.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	93%		60-140%

(a) The pH of the sample was > 2 at time of analysis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RMV 216-21 MW6
Lab Sample ID: D52877-3
Matrix: AQ - Ground Water
Project: CORCCOGJ: RMV 216-21 GW Monitoring(012.1539)

Date Sampled: 11/21/13
Date Received: 11/22/13
Percent Solids: n/a

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate as CaC	584	5.0	mg/l	1	11/26/13	JD	SM 2320B-2011
Alkalinity, Carbonate	< 5.0	5.0	mg/l	1	11/26/13	JD	SM 2320B-2011
Alkalinity, Total as CaCO3	584	5.0	mg/l	1	11/26/13	JD	SM 2320B-2011
Chloride	480	50	mg/l	100	11/22/13 16:51	SK	EPA 300.0/SW846 9056
Nitrogen, Nitrate	31.6	1.0	mg/l	100	11/22/13 16:51	SK	EPA 300.0/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	35.8	1.4	mg/l	1	11/22/13 16:51	SK	EPA 300.0/SW846 9056
Nitrogen, Nitrite	4.2	0.40	mg/l	100	11/22/13 16:51	SK	EPA 300.0/SW846 9056
Solids, Total Dissolved	3670	10	mg/l	1	11/25/13	AK	SM 2540C-2011
Sulfate	1350	50	mg/l	100	11/22/13 16:51	SK	EPA 300.0/SW846 9056
Total Organic Carbon	7.5	1.0	mg/l	1	11/25/13 15:40	GH	SM 5310B-2011
pH	7.19		su	1	11/25/13 15:00	KB	SM4500HB+ -2011/9040C

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	RMV 216-21 MW6		
Lab Sample ID:	D52877-3F	**Date Sampled:**	11/21/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	11/22/13
		Percent Solids:	n/a
Project:	CORCCOGJ: RMV 216-21 GW Monitoring(012.1539)		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	233000	400	ug/l	1	11/25/13	11/25/13	JM	SW846 6010C [1]	SW846 3010A [3]
Iron	< 70	70	ug/l	1	11/25/13	11/25/13	JM	SW846 6010C [1]	SW846 3010A [3]
Magnesium	244000	200	ug/l	1	11/25/13	11/25/13	JM	SW846 6010C [1]	SW846 3010A [3]
Manganese	189	5.0	ug/l	1	11/25/13	11/25/13	JM	SW846 6010C [1]	SW846 3010A [3]
Potassium	8240	5000	ug/l	5	11/25/13	11/26/13	JM	SW846 6010C [2]	SW846 3010A [3]
Selenium	< 50	50	ug/l	1	11/25/13	11/25/13	JM	SW846 6010C [1]	SW846 3010A [3]
Sodium	556000	2000	ug/l	5	11/25/13	11/26/13	JM	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA4244
(2) Instrument QC Batch: MA4249
(3) Prep QC Batch: MP11797

RL = Reporting Limit

Report of Analysis

Client Sample ID:	RMV 216-21 MW7		
Lab Sample ID:	D52877-4	**Date Sampled:**	11/21/13
Matrix:	AQ - Ground Water	**Date Received:**	11/22/13
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	CORCCOGJ: RMV 216-21 GW Monitoring(012.1539)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TA20307.D	1	12/02/13	EV	n/a	n/a	GTA1139
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	2.0	1.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	93%		60-140%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RMV 216-21 MW7
Lab Sample ID: D52877-4
Matrix: AQ - Ground Water
Project: CORCCOGJ: RMV 216-21 GW Monitoring(012.1539)

Date Sampled: 11/21/13
Date Received: 11/22/13
Percent Solids: n/a

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate as CaC	553	5.0	mg/l	1	11/26/13	JD	SM 2320B-2011
Alkalinity, Carbonate	< 5.0	5.0	mg/l	1	11/26/13	JD	SM 2320B-2011
Alkalinity, Total as CaCO3	553	5.0	mg/l	1	11/26/13	JD	SM 2320B-2011
Chloride	137	2.5	mg/l	5	11/22/13 14:20	SK	EPA 300.0/SW846 9056
Nitrogen, Nitrate	21.8	1.0	mg/l	100	11/22/13 17:26	SK	EPA 300.0/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	21.8	1.0	mg/l	1	11/22/13 17:26	SK	EPA 300.0/SW846 9056
Nitrogen, Nitrite [b]	< 0.020	0.020	mg/l	5	11/22/13 14:20	SK	EPA 300.0/SW846 9056
Solids, Total Dissolved	3130	10	mg/l	1	11/25/13	AK	SM 2540C-2011
Sulfate	1390	50	mg/l	100	11/22/13 17:26	SK	EPA 300.0/SW846 9056
Total Organic Carbon	5.8	1.0	mg/l	1	11/25/13 15:51	GH	SM 5310B-2011
pH	7.27		su	1	11/25/13 15:00	KB	SM4500HB+ -2011/9040C

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)
(b) Elevated detection limit due to matrix interference.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	RMV 216-21 MW7		
Lab Sample ID:	D52877-4F	**Date Sampled:**	11/21/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	11/22/13
		Percent Solids:	n/a
Project:	CORCCOGJ: RMV 216-21 GW Monitoring(012.1539)		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	239000	400	ug/l	1	11/25/13	11/25/13	JM	SW846 6010C [1]	SW846 3010A [3]
Iron	< 70	70	ug/l	1	11/25/13	11/25/13	JM	SW846 6010C [1]	SW846 3010A [3]
Magnesium	201000	200	ug/l	1	11/25/13	11/25/13	JM	SW846 6010C [1]	SW846 3010A [3]
Manganese	< 5.0	5.0	ug/l	1	11/25/13	11/25/13	JM	SW846 6010C [1]	SW846 3010A [3]
Potassium	6000	5000	ug/l	5	11/25/13	11/26/13	JM	SW846 6010C [2]	SW846 3010A [3]
Selenium	< 50	50	ug/l	1	11/25/13	11/25/13	JM	SW846 6010C [1]	SW846 3010A [3]
Sodium	423000	2000	ug/l	5	11/25/13	11/26/13	JM	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA4244
(2) Instrument QC Batch: MA4249
(3) Prep QC Batch: MP11797

RL = Reporting Limit

Report of Analysis

Client Sample ID:	RMV 216-21 MW8		
Lab Sample ID:	D52877-5	**Date Sampled:**	11/21/13
Matrix:	AQ - Ground Water	**Date Received:**	11/22/13
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	CORCCOGJ: RMV 216-21 GW Monitoring(012.1539)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TA20308.D	1	12/02/13	EV	n/a	n/a	GTA1139
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	2.0	1.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	90%		60-140%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RMV 216-21 MW8
Lab Sample ID: D52877-5
Matrix: AQ - Ground Water
Project: CORCCOGJ: RMV 216-21 GW Monitoring(012.1539)

Date Sampled: 11/21/13
Date Received: 11/22/13
Percent Solids: n/a

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate as CaC	528	5.0	mg/l	1	11/26/13	JD	SM 2320B-2011
Alkalinity, Carbonate	< 5.0	5.0	mg/l	1	11/26/13	JD	SM 2320B-2011
Alkalinity, Total as CaCO3	528	5.0	mg/l	1	11/26/13	JD	SM 2320B-2011
Chloride	304	50	mg/l	100	11/22/13 17:37	SK	EPA 300.0/SW846 9056
Nitrogen, Nitrate	31.7	1.0	mg/l	100	11/22/13 17:37	SK	EPA 300.0/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	31.7	1.0	mg/l	1	11/22/13 17:37	SK	EPA 300.0/SW846 9056
Nitrogen, Nitrite [b]	< 0.020	0.020	mg/l	5	11/22/13 14:31	SK	EPA 300.0/SW846 9056
Solids, Total Dissolved	3380	10	mg/l	1	11/25/13	AK	SM 2540C-2011
Sulfate	1420	50	mg/l	100	11/22/13 17:37	SK	EPA 300.0/SW846 9056
Total Organic Carbon	6.1	1.0	mg/l	1	11/25/13 17:02	GH	SM 5310B-2011
pH	7.32		su	1	11/25/13 15:00	KB	SM4500HB+ -2011/9040C

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)
(b) Elevated detection limit due to matrix interference.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	RMV 216-21 MW8		
Lab Sample ID:	D52877-5F	**Date Sampled:**	11/21/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	11/22/13
		Percent Solids:	n/a
Project:	CORCCOGJ: RMV 216-21 GW Monitoring(012.1539)		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	218000	400	ug/l	1	11/25/13	11/26/13	JM	SW846 6010C [1]	SW846 3010A [3]
Iron	< 70	70	ug/l	1	11/25/13	11/26/13	JM	SW846 6010C [1]	SW846 3010A [3]
Magnesium	233000	200	ug/l	1	11/25/13	11/26/13	JM	SW846 6010C [1]	SW846 3010A [3]
Manganese	20.5	5.0	ug/l	1	11/25/13	11/26/13	JM	SW846 6010C [1]	SW846 3010A [3]
Potassium	7190	5000	ug/l	5	11/25/13	11/26/13	JM	SW846 6010C [2]	SW846 3010A [3]
Selenium	< 50	50	ug/l	1	11/25/13	11/26/13	JM	SW846 6010C [1]	SW846 3010A [3]
Sodium	496000	2000	ug/l	5	11/25/13	11/26/13	JM	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA4244
(2) Instrument QC Batch: MA4249
(3) Prep QC Batch: MP11797

RL = Reporting Limit

Report of Analysis

Client Sample ID:	RMV 216-21 MW9		
Lab Sample ID:	D52877-6	**Date Sampled:**	11/21/13
Matrix:	AQ - Ground Water	**Date Received:**	11/22/13
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	CORCCOGJ: RMV 216-21 GW Monitoring(012.1539)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	TA20309.D	1	12/02/13	EV	n/a	n/a	GTA1139
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	4.3	1.0	0.20	ug/l	
108-88-3	Toluene	ND	2.0	1.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	90%		60-140%

(a) The pH of the sample was > 2 at time of analysis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RMV 216-21 MW9
Lab Sample ID: D52877-6
Matrix: AQ - Ground Water
Project: CORCCOGJ: RMV 216-21 GW Monitoring(012.1539)

Date Sampled: 11/21/13
Date Received: 11/22/13
Percent Solids: n/a

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate as CaC	644	5.0	mg/l	1	11/26/13	JD	SM 2320B-2011
Alkalinity, Carbonate	< 5.0	5.0	mg/l	1	11/26/13	JD	SM 2320B-2011
Alkalinity, Total as CaCO3	644	5.0	mg/l	1	11/26/13	JD	SM 2320B-2011
Chloride	325	50	mg/l	100	11/22/13 18:35	SK	EPA 300.0/SW846 9056
Nitrogen, Nitrate	40.5	1.0	mg/l	100	11/22/13 18:35	SK	EPA 300.0/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	42.7	1.0	mg/l	1	11/22/13 18:35	SK	EPA 300.0/SW846 9056
Nitrogen, Nitrite	2.2	0.020	mg/l	5	11/22/13 15:06	SK	EPA 300.0/SW846 9056
Solids, Total Dissolved	3620	10	mg/l	1	11/25/13	AK	SM 2540C-2011
Sulfate	1420	50	mg/l	100	11/22/13 18:35	SK	EPA 300.0/SW846 9056
Total Organic Carbon	7.6	1.0	mg/l	1	11/25/13 17:13	GH	SM 5310B-2011
pH	7.13		su	1	11/25/13 15:00	KB	SM4500HB+ -2011/9040C

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	RMV 216-21 MW9		
Lab Sample ID:	D52877-6F	**Date Sampled:**	11/21/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	11/22/13
		Percent Solids:	n/a
Project:	CORCCOGJ: RMV 216-21 GW Monitoring(012.1539)		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	255000	400	ug/l	1	11/25/13	11/26/13	JM	SW846 6010C [1]	SW846 3010A [3]
Iron	< 70	70	ug/l	1	11/25/13	11/26/13	JM	SW846 6010C [1]	SW846 3010A [3]
Magnesium	242000	200	ug/l	1	11/25/13	11/26/13	JM	SW846 6010C [1]	SW846 3010A [3]
Manganese	129	5.0	ug/l	1	11/25/13	11/26/13	JM	SW846 6010C [1]	SW846 3010A [3]
Potassium	7650	5000	ug/l	5	11/25/13	11/26/13	JM	SW846 6010C [2]	SW846 3010A [3]
Selenium	50.1	50	ug/l	1	11/25/13	11/26/13	JM	SW846 6010C [1]	SW846 3010A [3]
Sodium	492000	2000	ug/l	5	11/25/13	11/26/13	JM	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA4244
(2) Instrument QC Batch: MA4249
(3) Prep QC Batch: MP11797

RL = Reporting Limit

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	D52877-7	**Date Sampled:**	11/21/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	11/22/13
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	CORCCOGJ: RMV 216-21 GW Monitoring(012.1539)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TA20310.D	1	12/02/13	EV	n/a	n/a	GTA1139
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	2.0	1.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	92%		60-140%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Mountain States ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

WPX CHAIN OF CUSTODY

PAGE 1 OF 1

ACCUTEST LABORATORIES

4036 Youngfield Street, Wheat Ridge, CO 80033
TEL. 303-425-6021 FAX: 303-425-6854
www.accutest.com

FED-EX Tracking #:
Bottle Order Control #:
Accutest Quote #:
Accutest Job #: D52877

Client / Reporting Information

Company Name: Olsson Associates
Street Address: 760 Horizon Drive Suite 102
City: Grand Junction, CO 81506
Project Contact: Tim Dobransky
Email: tdobransky@olssonassociates.c
Phone #: 970-263-7800
Sampler(s) Name(s):

Project Information

Project Name: CORCCOGJ:
RMV 216-21 GW Monitoring (012.1539)
Street:
City: State:
Project #:
Client Purchase Order #: NXEEPPARACH
Project Manager:

Billing Information (if different from Report to)

Company Name: WPX Energy Rocky Mountain, LLC (WILLCOP)
Street Address: 1058 County Road 215
City: Parachute, CO 81635
Attention: Leo Braun
Email invoices: Leo.Braun@wpxenergy.com

Requested Analysis (see TEST CODE sheet)

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	BTEX - (8021B)	Dissolved Metals LF (6010)**	TOC - (SM20 5310B)	TDS/pH - (2540C/SM4500)	Alkalinity Series - (SM2320)	Anions - (E300.0)*	LAB USE ONLY
	RMV 216-21 MW1		11/21/13	0915	JS	GW	8	3			1	4				X	X	X	X	X	X	01
	~~RMV 216-21 MW2~~					GW	8	3			1	4										
	~~RMV 216-21 MW3~~					GW	8	3			1	4										
	~~RMV 216-21 MW4~~					GW	8	3			1	4										
	RMV 216-21 MW5		11/21/13	0940	KB	GW	8	3			1	4				X	X	X	X	X	X	02
	RMV 216-21 MW6		11/21/13	1005	KB	GW	8	3			1	4				X	X	X	X	X	X	03
	~~RMV 216-21 MW6~~					GW	8	3			1	4										
	RMV 216-21 MW7		11/21/13	0940	JS	GW	8	3			1	4				X	X	X	X	X	X	04
	RMV 216-21 MW8		11/21/13	0955	JS	GW	8	3			1	4				X	X	X	X	X	X	05
	RMV 216-21 MW9		11/21/13	0900	RB	GW	8	3			1	4				X	X	X	X	X	X	06
	TRIP BLANK															X						07 TB

11-22-13

Turnaround Time (Business days)

- [ ]
- [ ]
- [X] 5 Business Day Std. (per contract)
- [ ] 3 Day Emergency
- [ ] 2 Day Emergency
- [ ] 1 Day Emergency
- [ ]

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:
JGM 12/6/12

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] COMMEN
- [ ] COMMEN+
- [ ]
- [ ] State Forms Required
- [ ] Send Forms to State
- [ ] Report by Fax
- [X] Report by PDF
- [ ] EDD Format

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial BN = Results/QC/Narrative (+ = chromatograms)

Comments / Special Instructions

Also email final report to: Karolina.Blaney@wpxenergy.com

*Anions - NO2, NO3, SO4, Cl, nitrate-nitrite

**Metals - Ca, Fe, K, Mg, Mn, Na, Se

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1		11/21/13 1030		2 Rifle Service Center	13:00	2 11-22-13
3		11/21/13 1125	3	4		4
5	Relinquished by:	Date Time:	Received By: 5	Custody Seal # HDC	Intact / Not Intact	Preserved where applicable	On Ice	Cooler Temp. 1.1

5.1 5

D52877: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: D52877 **Client:** OLSSON ASSOCIATES **Immediate Client Services Action Required:** No

Date / Time Received: 11/22/2013 1:00:00 PM **No. Coolers:** 1 **Client Service Action Required at Login:** No

Project: RWV 216-21 GW MONITORING **Airbill #'s:** hdco

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	Infared gun		
3. Cooler media:	Ice (bag)		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	
2. Trip Blank listed on COC:	☐		☐	
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume rec'd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:(303) 425-6021

4036 Youngfield Street
F: (303) 425-6854

Wheat Ridge, CO
www/accutest.com

D52877: Chain of Custody
Page 2 of 2

Mountain States ACCUTEST LABORATORIES

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: D52877
Account: WILLCOP WPX Energy Rocky Mountain, LLC
Project: CORCCOGJ: RMV 216-21 GW Monitoring(012.1539)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GTA1139-MB	TA20299.D	1	12/02/13	EV	n/a	n/a	GTA1139

The QC reported here applies to the following samples: **Method:** SW846 8021B

D52877-1, D52877-2, D52877-3, D52877-4, D52877-5, D52877-6, D52877-7

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	2.0	1.0	ug/l	
108-88-3	Toluene	ND	2.0	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	2.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
120-82-1	1,2,4-Trichlorobenzene	90%	60-140%

Blank Spike Summary

Job Number: D52877
Account: WILLCOP WPX Energy Rocky Mountain, LLC
Project: CORCCOGJ: RMV 216-21 GW Monitoring(012.1539)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GTA1139-BS	TA20300.D	1	12/02/13	EV	n/a	n/a	GTA1139

The QC reported here applies to the following samples: **Method:** SW846 8021B

D52877-1, D52877-2, D52877-3, D52877-4, D52877-5, D52877-6, D52877-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	27.2	26.5	97	70-130
100-41-4	Ethylbenzene	45.6	44.7	98	70-130
108-88-3	Toluene	212	204	96	70-130
1330-20-7	Xylenes (total)	216	226	105	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
120-82-1	1,2,4-Trichlorobenzene	96%	60-140%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D52877
Account: WILLCOP WPX Energy Rocky Mountain, LLC
Project: CORCCOGJ: RMV 216-21 GW Monitoring(012.1539)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D52652-36MS	TA20302.D	1	12/02/13	EV	n/a	n/a	GTA1139
D52652-36MSD	TA20303.D	1	12/02/13	EV	n/a	n/a	GTA1139
D52652-36	TA20301.D	1	12/02/13	EV	n/a	n/a	GTA1139

The QC reported here applies to the following samples: **Method:** SW846 8021B

D52877-1, D52877-2, D52877-3, D52877-4, D52877-5, D52877-6, D52877-7

CAS No.	Compound	D52652-36 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		27.2	26.0	96	25.4	93	2	55-133/30
100-41-4	Ethylbenzene	ND		45.6	43.8	96	42.9	94	2	63-130/30
108-88-3	Toluene	ND		212	200	95	195	92	3	70-130/30
1330-20-7	Xylenes (total)	ND		216	221	102	218	101	1	64-130/30

CAS No.	Surrogate Recoveries	MS	MSD	D52652-36	Limits
120-82-1	1,2,4-Trichlorobenzene	102%	94%	89%	60-140%

* = Outside of Control Limits.

Mountain States ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: D52877
Account: WILLCOP - WPX Energy Rocky Mountain, LLC
Project: CORCCOGJ: RMV 216-21 GW Monitoring(012.1539)

QC Batch ID: MP11797
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 11/25/13

Metal	RL	IDL	MDL	MB raw	final
Aluminum	100	8.6	41		
Antimony	30	2.1	19		
Arsenic	25	3.8	5.6		
Barium	10	.2	1.4		
Beryllium	10	.8	1.2		
Boron	50	.8	6.6		
Cadmium	10	.2	.36		
Calcium	400	2.2	41	7.9	<400
Chromium	10	.3	.4		
Cobalt	5.0	.4	.57		
Copper	10	.8	1.9		
Iron	70	1.5	9.5	15.4	<70
Lead	50	2.1	21		
Lithium	5.0	.4	2.7		
Magnesium	200	6.8	19	8.4	<200
Manganese	5.0	.01	.46	1.3	<5.0
Molybdenum	10	.4	.84		
Nickel	30	.5	.87		
Phosphorus	100	15	20		
Potassium	1000	130	270	-68	<1000
Selenium	50	7.1	11	1.4	<50
Silicon	50	4.7	5.2		
Silver	30	.3	.6		
Sodium	400	4.9	170	8.4	<400
Strontium	5.0	.01	.12		
Thallium	10	1.8	4		
Tin	50	13	16		
Titanium	10	.1	2.1		
Uranium	50	2.9	5.5		
Vanadium	10	.4	.4		
Zinc	30	.4	3.2		

Associated samples MP11797: D52877-1F, D52877-2F, D52877-3F, D52877-4F, D52877-5F, D52877-6F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: D52877
Account: WILLCOP - WPX Energy Rocky Mountain, LLC
Project: CORCCOGJ: RMV 216-21 GW Monitoring(012.1539)

QC Batch ID: MP11797
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:

Metal

(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D52877
Account: WILLCOP - WPX Energy Rocky Mountain, LLC
Project: CORCCOGJ: RMV 216-21 GW Monitoring(012.1539)

QC Batch ID: MP11797
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 11/25/13

Metal	D52877-2F Original	MS	Spikelot ICPALL2	% Rec	QC Limits
Aluminum					
Antimony					
Arsenic	anr				
Barium	anr				
Beryllium					
Boron					
Cadmium	anr				
Calcium	220000	262000	25000	76.0	75-125
Chromium	anr				
Cobalt					
Copper	anr				
Iron	158	5270	5000	102.2	75-125
Lead	anr				
Lithium					
Magnesium	231000	247000	25000	112.0	75-125
Manganese	112	587	500	95.0	75-125
Molybdenum					
Nickel					
Phosphorus					
Potassium	5550	35500	25000	114.8	75-125
Selenium	42.7	1170	1000	112.7	75-125
Silicon					
Silver	anr				
Sodium	478000	532000	25000	212.0(a)	75-125
Strontium					
Thallium					
Tin	anr				
Titanium					
Uranium					
Vanadium					
Zinc					

Associated samples MP11797: D52877-1F, D52877-2F, D52877-3F, D52877-4F, D52877-5F, D52877-6F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D52877
Account: WILLCOP - WPX Energy Rocky Mountain, LLC
Project: CORCCOGJ: RMV 216-21 GW Monitoring(012.1539)

QC Batch ID: MP11797 Methods: SW846 6010C
Matrix Type: AQUEOUS Units: ug/l

Prep Date:

Metal

(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D52877
Account: WILLCOP - WPX Energy Rocky Mountain, LLC
Project: CORCCOGJ: RMV 216-21 GW Monitoring(012.1539)

QC Batch ID: MP11797 Methods: SW846 6010C
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 11/25/13

Metal	D52877-2F Original	MSD	Spikelot ICPALL2	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic	anr					
Barium	anr					
Beryllium						
Boron						
Cadmium	anr					
Calcium	220000	259000	25000	64.0 (a)	1.2	20
Chromium	anr					
Cobalt						
Copper	anr					
Iron	158	5220	5000	101.2	1.0	20
Lead	anr					
Lithium						
Magnesium	231000	248000	25000	116.0	0.4	20
Manganese	112	585	500	94.6	0.3	20
Molybdenum						
Nickel						
Phosphorus						
Potassium	5550	34000	25000	108.8	19.1	20
Selenium	42.7	1180	1000	113.7	0.9	20
Silicon						
Silver	anr					
Sodium	478000	506000	25000	108.0	1.8	20
Strontium						
Thallium						
Tin	anr					
Titanium						
Uranium						
Vanadium						
Zinc						

Associated samples MP11797: D52877-1F, D52877-2F, D52877-3F, D52877-4F, D52877-5F, D52877-6F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D52877
Account: WILLCOP - WPX Energy Rocky Mountain, LLC
Project: CORCCOGJ: RMV 216-21 GW Monitoring(012.1539)

QC Batch ID: MP11797 Methods: SW846 6010C
Matrix Type: AQUEOUS Units: ug/l

Prep Date:

Metal

(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D52877
Account: WILLCOP - WPX Energy Rocky Mountain, LLC
Project: CORCCOGJ: RMV 216-21 GW Monitoring(012.1539)

QC Batch ID: MP11797
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 11/25/13

Metal	BSP Result	Spikelot ICPALL2	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium	anr			
Beryllium				
Boron				
Cadmium	anr			
Calcium	26800	25000	107.2	80-120
Chromium	anr			
Cobalt				
Copper	anr			
Iron	5310	5000	106.2	80-120
Lead	anr			
Lithium				
Magnesium	25600	25000	102.4	80-120
Manganese	497	500	99.4	80-120
Molybdenum				
Nickel				
Phosphorus				
Potassium	26700	25000	106.8	80-120
Selenium	1060	1000	106.0	80-120
Silicon				
Silver	anr			
Sodium	26100	25000	104.4	80-120
Strontium				
Thallium				
Tin	anr			
Titanium				
Uranium				
Vanadium				
Zinc				

Associated samples MP11797: D52877-1F, D52877-2F, D52877-3F, D52877-4F, D52877-5F, D52877-6F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D52877
Account: WILLCOP - WPX Energy Rocky Mountain, LLC
Project: CORCCOGJ: RMV 216-21 GW Monitoring(012.1539)

QC Batch ID: MP11797
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:

Metal

(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: D52877
Account: WILLCOP - WPX Energy Rocky Mountain, LLC
Project: CORCCOGJ: RMV 216-21 GW Monitoring(012.1539)

QC Batch ID: MP11797
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 11/25/13

Metal	D52877-2F Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium	anr			
Beryllium				
Boron				
Cadmium	anr			
Calcium	220000	250000	2.6	0-10
Chromium	anr			
Cobalt				
Copper	anr			
Iron	159	97.0	38.6*(a)	0-10
Lead	anr			
Lithium				
Magnesium	231000	226000	3.3	0-10
Manganese	112	114	1.3	0-10
Molybdenum				
Nickel				
Phosphorus				
Potassium	5550	6000	8.2	0-10
Selenium	42.7	43.0	0.7	0-10
Silicon				
Silver	anr			
Sodium	478000	464000	3.0	0-10
Strontium				
Thallium				
Tin	anr			
Titanium				
Uranium				
Vanadium				
Zinc				

Associated samples MP11797: D52877-1F, D52877-2F, D52877-3F, D52877-4F, D52877-5F, D52877-6F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits

SERIAL DILUTION RESULTS SUMMARY

Login Number: D52877
Account: WILLCOP - WPX Energy Rocky Mountain, LLC
Project: CORCCOGJ: RMV 216-21 GW Monitoring(012.1539)

QC Batch ID: MP11797
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:

Metal

(anr) Analyte not requested
(a) Serial dilution indicates possible matrix interference.

Mountain States ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: D52877
Account: WILLCOP - WPX Energy Rocky Mountain, LLC
Project: CORCCOGJ: RMV 216-21 GW Monitoring(012.1539)

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Alkalinity, Bicarbonate as CaC	GN22853	5.0	0.0	mg/l	100	97.1	97.1	90-110%
Alkalinity, Carbonate	GN22854	5.0	0.0	mg/l	100	97.1	97.1	80-120%
Alkalinity, Total as CaCO3	GN22852	5.0	0.0	mg/l	100	97.1	97.1	90-110%
Bromide	GP11462/GN22819	0.050	0.0	mg/l	20	19.8	99.0	90-110%
Chloride	GP11462/GN22819	0.50	0.0	mg/l	20	19.2	96.0	90-110%
Fluoride	GP11462/GN22819	0.10	0.0	mg/l	10	9.50	95.0	90-110%
Nitrogen, Nitrate	GP11462/GN22819	0.010	0.0	mg/l	4.52	4.24	93.8	90-110%
Nitrogen, Nitrite	GP11462/GN22819	0.0040	0.0	mg/l	6.09	6.04	99.2	90-110%
Solids, Total Dissolved	GN22824	10	0.0	mg/l	400	398	99.5	90-110%
Sulfate	GP11462/GN22819	0.50	0.0	mg/l	30	29.0	96.7	90-110%
Total Organic Carbon	GP11467/GN22827	1.0	0.0	mg/l	8.82	8.83	100.1	90-110%
pH	GN22833			su	8.00	8.01	100.0	99.3-100.7%

Associated Samples:
Batch GN22824: D52877-1, D52877-2, D52877-3, D52877-4, D52877-5, D52877-6
Batch GN22833: D52877-1, D52877-2, D52877-3, D52877-4, D52877-5, D52877-6
Batch GN22852: D52877-1, D52877-2, D52877-3, D52877-4, D52877-5, D52877-6
Batch GN22853: D52877-1, D52877-2, D52877-3, D52877-4, D52877-5, D52877-6
Batch GN22854: D52877-1, D52877-2, D52877-3, D52877-4, D52877-5, D52877-6
Batch GP11462: D52877-1, D52877-2, D52877-3, D52877-4, D52877-5, D52877-6
Batch GP11467: D52877-1, D52877-2, D52877-3, D52877-4, D52877-5, D52877-6
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: D52877
Account: WILLCOP - WPX Energy Rocky Mountain, LLC
Project: CORCCOGJ: RMV 216-21 GW Monitoring(012.1539)

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Alkalinity, Total as CaCO3	GN22852	D52830-7	mg/l	407	410	0.8	0-20%
Solids, Total Dissolved	GN22824	D52877-4	mg/l	3130	3110	0.6	0-20%
Solids, Total Dissolved	GN22824	D52877-1	mg/l	3110	3090	0.6	0-20%
Solids, Total Dissolved	GN22824	D52877-5	mg/l	3380	3380	0.0	0-20%
Total Organic Carbon	GP11467/GN22827	D52877-4	mg/l	5.8	5.7	1.7	0-20%

Associated Samples:
Batch GN22824: D52877-1, D52877-2, D52877-3, D52877-4, D52877-5, D52877-6
Batch GN22852: D52877-1, D52877-2, D52877-3, D52877-4, D52877-5, D52877-6
Batch GP11467: D52877-1, D52877-2, D52877-3, D52877-4, D52877-5, D52877-6
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: D52877
Account: WILLCOP - WPX Energy Rocky Mountain, LLC
Project: CORCCOGJ: RMV 216-21 GW Monitoring(012.1539)

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Alkalinity, Total as CaCO3	GN22852	D52760-1	mg/l	52.6	100	142	89.6	80-120%
Bromide	GP11462/GN22819	D52877-3	mg/l	0.0	250	252	100.8	80-120%
Chloride	GP11462/GN22819	D52877-3	mg/l	480	1000	1480	100.0	80-120%
Fluoride	GP11462/GN22819	D52877-3	mg/l	16.0	250	255	95.6	80-120%
Nitrogen, Nitrate	GP11462/GN22819	D52877-3	mg/l	31.6	56.5	86.3	96.8	80-120%
Nitrogen, Nitrite	GP11462/GN22819	D52877-3	mg/l	4.2	30.5	33.9	97.5	80-120%
Sulfate	GP11462/GN22819	D52877-3	mg/l	1350	1000	2320	97.0	80-120%
Total Organic Carbon	GP11467/GN22827	D52877-4	mg/l	5.8	10	16.1	103.0	80-120%

Associated Samples:
Batch GN22852: D52877-1, D52877-2, D52877-3, D52877-4, D52877-5, D52877-6
Batch GP11462: D52877-1, D52877-2, D52877-3, D52877-4, D52877-5, D52877-6
Batch GP11467: D52877-1, D52877-2, D52877-3, D52877-4, D52877-5, D52877-6
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

8.3
8

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: D52877
Account: WILLCOP - WPX Energy Rocky Mountain, LLC
Project: CORCCOGJ: RMV 216-21 GW Monitoring(012.1539)

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Alkalinity, Total as CaCO3	GN22852	D52760-1	mg/l	52.6	100	145	3.5	20%
Bromide	GP11462/GN22819	D52877-3	mg/l	0.0	250	250	0.8	20%
Chloride	GP11462/GN22819	D52877-3	mg/l	480	1000	1470	0.7	20%
Fluoride	GP11462/GN22819	D52877-3	mg/l	16.0	250	250	2.0	20%
Nitrogen, Nitrate	GP11462/GN22819	D52877-3	mg/l	31.6	56.5	85.9	0.5	20%
Nitrogen, Nitrite	GP11462/GN22819	D52877-3	mg/l	4.2	30.5	33.8	0.3	20%
Sulfate	GP11462/GN22819	D52877-3	mg/l	1350	1000	2320	0.0	20%
Total Organic Carbon	GP11467/GN22827	D52877-4	mg/l	5.8	10	15.7	2.5	20%

Associated Samples:
Batch GN22852: D52877-1, D52877-2, D52877-3, D52877-4, D52877-5, D52877-6
Batch GP11462: D52877-1, D52877-2, D52877-3, D52877-4, D52877-5, D52877-6
Batch GP11467: D52877-1, D52877-2, D52877-3, D52877-4, D52877-5, D52877-6
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits