

FINAL REVISION 1

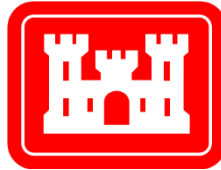
GROUNDWATER PERIODIC MONITORING REPORT
JANUARY THROUGH JUNE 2018

FORT WINGATE DEPOT ACTIVITY
MCKINLEY COUNTY, NEW MEXICO

October 2019

Contract No. W912PP-17-C-0003

Prepared for:



U.S. Army Corps of Engineers
Albuquerque District
4101 Jefferson Plaza, N.E.
Albuquerque, New Mexico 87109

Prepared by:

Sundance Consulting, Inc.
8210 Louisiana Blvd., N.E., Suite C
Albuquerque, New Mexico 87113

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14. ABSTRACT This Groundwater Periodic Monitoring Report documents the activities conducted from January through June 2018 at Fort Wingate Depot Activity under the Interim Facility-Wide Groundwater Monitoring Plan, Version 10. The report describes the monitoring activities and presents the analytical data.					
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40 CFR 270.11
October 2019

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THOMAS.IAN.MICHAEL.101528209
Date: 2019.10.24 14:39:08 -04'00'

Mr. Ian Thomas
Base Realignment and Closure Division

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Notes:

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BIA = U.S. Bureau of Indian Affairs

BRACD = Base Realignment and Closure Division

DoI = U.S. Department of the Interior

EPA = U.S. Environmental Protection Agency

ERDC = Engineer Research and Development Center

FWDA = Fort Wingate Depot Activity

HWB = Hazardous Waste Bureau

NM = New Mexico

NMED = New Mexico Environment Department

NN = Navajo Nation

NRO = Navajo Regional Office

OH = Ohio

POZ = Pueblo of Zuni

USACE = U.S. Army Corps of Engineers

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List of Acronyms and Abbreviations

µg/L	microgram per liter
µS/cm	microsiemens per centimeter
1,2-DCA	1,2-dichloroethane
ADR	automated data review
AOC	area of concern
Army	U.S. Department of the Army
bgs	below ground surface
BRAC	Base Realignment and Closure
CFR	Code of Federal Regulations
DO	dissolved oxygen
DoD	U.S. Department of Defense
DoE	U.S. Department of Energy
DTW	depth to water
EDD	electronic data deliverable
EDMS	electronic data management system
Eh	reduction potential
EPA	U.S. Environmental Protection Agency
ERP	Environmental Restoration Program
ft/ft	foot per foot
FWDA	Fort Wingate Depot Activity
GMP	groundwater monitoring plan
GPMR	Groundwater Periodic Monitoring Report
HMX	octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
HWMU	hazardous waste management unit
Innovar	Innovar Environmental, Inc.
J	(Estimated) The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to nonconformances discovered during data validation.
MCL	maximum contaminant level
mg/L	milligram per liter
MS	matrix spike
MSD	matrix spike duplicate
mS/cm	millisiemens per centimeter
mV	millivolt

List of Acronyms and Abbreviations (concluded)

NM	New Mexico
NMAC	New Mexico Administrative Code
NMED	New Mexico Environment Department
OB/OD	open burn/open detonation
ORP	oxidation-reduction potential
pH	potential hydrogen: a measure of acidity or alkalinity of a solution
QA	quality assurance
QC	quality control
QSM	Quality Systems Manual
RCRA	Resource Conservation and Recovery Act, enacted 1976
RDX	hexahydro-1,3,5-trinitro-1,3,5-triazine
RFI	RCRA Facility Investigation
RSL	regional screening level
Sundance	Sundance Consulting, Inc.
SVOC	semivolatile organic compound
SWMU	solid waste management unit
TDS	total dissolved solids
TestAmerica	TestAmerica Laboratories, Inc.
TNT	trinitrotoluene
TOC	top of casing
TPH-DRO	total petroleum hydrocarbons - diesel range organics
TPH-GRO	total petroleum hydrocarbons - gasoline range organics
TPMC	TerranearPMC, LLC
USGS	U.S. Geological Survey
UXO	unexploded ordnance
VOC	volatile organic compound
WQCC	Water Quality Control Commission

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EXECUTIVE SUMMARY

This Groundwater Periodic Monitoring Report (GPMR) documents groundwater monitoring activities conducted at Fort Wingate Depot Activity (FWDA) from January 2018 through June 2018 in accordance with *Interim Facility-wide Ground Water Monitoring Plan, Version 2, Fort Wingate Depot Activity, Gallup, New Mexico* (Terranear [TPMC], 2008) and subsequent monitoring program guidance as captured in *Final 2017 Interim Facility-wide Groundwater Monitoring Plan, Version 10, Fort Wingate Depot Activity, McKinley County, New Mexico* (GMP; Sundance Consulting, Inc. [Sundance], 2017b). Groundwater monitoring was performed by Sundance at FWDA under contract to the U.S. Army Corps of Engineers Albuquerque District as part of the Environmental Restoration Program. This GPMR was prepared on behalf of the U.S. Department of the Army (Army) Base Realignment and Closure Division for submission to the New Mexico Environment Department (NMED) Hazardous Waste Bureau, as required by Section V.A of the Resource Conservation and Recovery Act (RCRA) permit, U.S. Environmental Protection Agency (EPA) identification number NM 6213820974 for FWDA (NMED, 2005). The FWDA RCRA permit was most recently modified in February 2015 (NMED, 2015). This GPMR summarizes the monitoring activities and results.

Field activities conducted during the reporting period included two groundwater elevation surveys and one groundwater sampling event. Northern area bedrock background monitoring wells BGMW07, BGMW08, BGMW09, and BGMW10 were also installed in March 2018. Groundwater elevation surveys were performed on January 11, 2018, and January 12, 2018, and on April 22, 2018. Depth to water was measured at 63 monitoring wells and 10 piezometers during the January 2018 event; 67 monitoring wells and 10 piezometers were measured for the depth to water in the April 2018 event. The groundwater sampling event for the reporting period was performed from April 23, 2018, to May 4, 2018. The groundwater samples were analyzed for targeted constituents in accordance with the GMP (Sundance, 2017b) and as listed in Table 2-2 of this GPMR.

Monitoring wells FW35, MW18S, and MW22S were considered dry and were not sampled during this reporting period. Well MW18S has been dry since installation in 1994 and is not listed for sampling in the GMP (Sundance, 2017b); however, this well is inspected during groundwater elevation surveys to confirm it continues to be dry. BGMW08 was purged, but due to poor recharge the well was not sampled during this reporting period.

During this reporting period, access to the Open Burn/Open Detonation (OB/OD) Area was not available for monitoring due to explosive hazards associated with excavating and removing unexploded ordnance and munitions and explosives of concern by another contractor. A total of 29 monitoring wells are contained within the OB/OD Area or within the safety boundary; of these, 13 wells were installed during the Parcel 3 RCRA Facility Investigation conducted in winter 2017. The Army will resume groundwater monitoring activities within Parcel 3 once replacement wells and additional Parcel 3 background wells have been installed following the completion of Parcel 3 hazardous operations.

Groundwater flow directions at FWDA are controlled by regional geologic structure orientation and by local topography and stratigraphy. The flow of groundwater within the northern area alluvium is from potentiometric highs in the east, north, and south toward a potentiometric low

1 west of the Administration Area. Hydraulic gradients in alluvium ranged from 0.002 foot per
2 foot (ft/ft) to 0.03 ft/ft.

3 Groundwater hydraulic gradients in the bedrock unit range from approximately 0.001 ft/ft to
4 0.008 ft/ft in the Workshop Area. Potentiometric levels in the bedrock groundwater unit are
5 slightly higher than in the alluvial groundwater unit and exist under hydraulically confined
6 conditions in most of the northern area. These confined conditions indicate an upward hydraulic
7 gradient that inhibits local downward movement of the shallower, potentially contaminated
8 alluvial groundwater. Groundwater flow direction has not been fully characterized in the bedrock
9 aquifer beneath the Workshop Area. *Final Groundwater Supplemental RCRA Facility*
10 *Investigation Work Plan, Revision 4, Fort Wingate Depot Activity, McKinley County, New*
11 *Mexico* (Sundance, 2018a) was approved by NMED in spring 2018, and proposes wells to
12 characterize the bedrock flow direction.

13 Nitrate, nitrite, perchlorate, explosives, one volatile organic compound (VOC), and metals were
14 detected in groundwater samples at concentrations above the groundwater screening values as
15 selected per the hierarchy listed in Attachment 7 of the RCRA permit (NMED, 2015). Six
16 groundwater contaminant plumes have been identified within the Administration Area and the
17 Workshop Area of FWDA.

- 18 • Two nitrate plumes, one in the alluvial groundwater unit and one in the bedrock
19 groundwater unit (Workshop Area and Administration Area)
- 20 • Two perchlorate plumes, one in the alluvial groundwater unit and one in the bedrock
21 groundwater unit (Workshop Area)
- 22 • One explosives plume in the alluvial groundwater unit (Workshop Area)
- 23 • One 1,2-dichloroethane (1,2-DCA) plume in the alluvial groundwater unit
24 (Administration Area).

25 Detections of semivolatile organic compounds in groundwater samples are sporadic and not
26 attributed to a specific contaminant plume.

27 The highest nitrate concentrations occur in the shallow alluvial groundwater unit in the northern
28 area. Detected nitrate concentrations in bedrock wells are roughly an order of magnitude lower
29 than concentrations in the alluvial wells. The nitrate plume in the alluvial groundwater unit
30 appears to originate from the trinitrotoluene (TNT) Leaching Beds (solid waste management unit
31 [SWMU] 1) and extends downgradient to the Administration Area. The extent of the alluvial
32 nitrate plume is not defined west and north of the Administration Area. The bedrock nitrate
33 plume is present near the TNT Leaching Beds (SWMU 1) and downgradient of the Building 528
34 Complex (SWMU 27). A portion of the bedrock nitrate plume is collocated with the bedrock
35 perchlorate plume. The collocated bedrock perchlorate and nitrate plumes appear to have a
36 common source at the Building 528 Complex (SWMU 27).

37 The alluvial nitrate plume overlies the bedrock nitrate plume in the vicinity of bedrock well
38 TMW02. TMW02 has detections of contaminants consistent with adjacent alluvial wells, and the
39 potentiometric surface elevation is consistent with adjacent alluvial wells. The *Final*
40 *Groundwater A Supplemental RCRA Facility Investigation (RFI) Work Plan, Revision 4, Fort*
41 *Wingate Depot Activity, McKinley County, New Mexico* (Sundance, 2018a), proposes to

1 investigate contaminant migration from the alluvium to the bedrock groundwater zone in this
2 area.

3 The highest perchlorate concentrations were detected in groundwater samples from the bedrock
4 groundwater unit in the Workshop Area. The boundaries of the bedrock perchlorate plume have
5 not been defined. The alluvial perchlorate plume is in the same vicinity as the bedrock plume.
6 The source of perchlorate appears to be the Building 528 Complex (SWMU 27).

7 The explosive compound hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX) is the principal explosive
8 compound of interest. This compound is consistently detected at concentrations above
9 groundwater screening values in the Workshop Area and eastern Administration Area. The
10 explosives plume in the alluvial groundwater unit appears to originate from the TNT Leaching
11 Beds (SWMU 1) in the Workshop Area. Groundwater concentrations of explosive compounds
12 (primarily RDX) attenuate to levels below the groundwater screening values within 2,500 feet
13 downgradient of the TNT Leaching Beds (SWMU 1).

14 The VOC compound 1,2-DCA was detected in groundwater samples at concentrations above
15 groundwater screening values. 1,2-DCA was historically used as a gasoline additive and
16 degreasing solvent. The 1,2-DCA plume in the alluvial groundwater unit is limited to a group of
17 alluvial monitoring wells near former fueling facility (Building 6 Gas Station, SWMU 45) in the
18 Administration Area. Groundwater samples collected from two alluvial monitoring wells had
19 concentrations above the EPA maximum contaminant level of 5.0 micrograms per liter. No other
20 VOCs were detected above groundwater screening values.

21 Dissolved aluminum, arsenic, iron manganese, and selenium were detected above groundwater
22 screening values in more than one groundwater sample during this reporting period from January
23 2018 through June 2018. Total aluminum, arsenic, iron, lead, manganese, and selenium were
24 also detected above groundwater screening values in more than one groundwater sample this
25 reporting period. Background groundwater concentrations of dissolved or total metals have not
26 been accepted by NMED for FWDA, so it cannot clearly be demonstrated whether the detected
27 concentrations are a result of natural background conditions or anthropogenic sources of
28 contamination. With this, four additional background groundwater monitoring wells have been
29 installed in the northern area. Once sufficient data are collected from these background locations,
30 an evaluation of background metal concentrations in the northern area groundwater will be
31 completed and submitted to NMED under separate cover.

32 Additional delineation and investigation for groundwater plumes at FWDA is planned. *Final*
33 *Groundwater Supplemental RCRA Facility Investigation Work Plan, Revision 4, Fort Wingate*
34 *Depot Activity, McKinley County, New Mexico* (Sundance, 2018a) was approved by NMED in
35 spring 2018. This Supplemental RFI Work Plan proposes locations for additional groundwater
36 monitoring wells to further delineate the FWDA alluvial and bedrock groundwater contaminant
37 plumes.

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1.0 INTRODUCTION

This Groundwater Periodic Monitoring Report (GPMR) documents groundwater monitoring activities conducted at Fort Wingate Depot Activity (FWDA) from January 2018 through June 2018 in accordance with *Interim Facility-wide Ground Water Monitoring Plan, Version 2, Fort Wingate Depot Activity, Gallup, New Mexico* (Terranear [TPMC], 2008) and subsequent monitoring program guidance as captured in *Final 2017 Interim Facility-wide Groundwater Monitoring Plan, Version 10, Fort Wingate Depot Activity, McKinley County, New Mexico* (GMP; Sundance Consulting, Inc. [Sundance], 2018b). Sundance performed the groundwater monitoring at FWDA under contract to the U.S. Army Corps of Engineers Albuquerque District as part of the Environmental Restoration Program (ERP). This GPMR was prepared on behalf of the U.S. Department of the Army (Army) Base Realignment and Closure (BRAC) Division for submission to the New Mexico Environment Department (NMED) Hazardous Waste Bureau, as required by Section V.A of the Resource Conservation and Recovery Act (RCRA) permit, U.S. Environmental Protection Agency (EPA) identification number NM 6213820974 for FWDA (NMED, 2015). Permit modifications are discussed in Section 1.3 of this GPMR.

The Army BRAC Division manages FWDA to oversee closure and transfer of the property. As part of the planned property transfer to the U.S. Department of the Interior, FWDA has been divided into reuse parcels as specified by the RCRA permit. Pending RCRA closure and property transfer of the reuse parcels, the ERP must comply with provisions in the RCRA permit.

1.1 SITE DESCRIPTION AND ACTIVITIES

FWDA is in McKinley County in western New Mexico (NM), approximately 7 miles east of Gallup and 130 miles west of Albuquerque (Figure 1-1). The current facility occupies an area of approximately 24 square miles (15,277 acres).

FWDA was founded as a U.S. Cavalry post in the 1860s. In 1918, the facility became a munitions storage depot for the Army. The facility was operated by the Army for numerous missions from 1918 until 1993, when FWDA was selected for closure under the BRAC Act of 1988. In 2002, the Army reassigned many functions at FWDA to the BRAC Division, including property management and ERP activities. In addition, the Missile Defense Agency currently leases and uses portions of FWDA for missile testing.

Historic FWDA activities that may have contributed to soil and groundwater contamination include munitions storage, maintenance, and disposal; use and storage of petroleum fuels; and equipment maintenance (TerranearPMC, LLC [TPMC], 2008). The following areas had historical activities with known or potential impacts to site soil and/or groundwater.

- The Administration Area in the northern portion of FWDA contained administrative and maintenance buildings. Munitions shipping, fuel storage and dispensing, and mechanical maintenance activities were performed in this area (Innovar Environmental, Inc. and Shaw Environmental, Inc. [Innovar and Shaw], 2012).
- The Workshop Area is located directly south of the Administration Area and includes former industrial facilities for munitions maintenance and renovation activities, including the former trinitrotoluene (TNT) washout facility and the TNT Leaching Beds (solid

waste management unit [SWMU] 1; Innovar and Shaw, 2012). These buildings and other structures were demolished in 2010 (TPMC, 2012).

- The Magazine (Igloo) Area covers almost half of the current FWDA property. This area consists of rows of earth-covered magazines (also known as earth-covered igloos) located in the central portion of FWDA. The 10 igloo areas contain 732 earth-covered igloos and 241 earthen revetments previously used to store munitions (Innovar Environmental, Inc. [Innovar], 2016).
- The Open Burn/Open Detonation (OB/OD) Area includes munitions disposal locations in the southwestern and western portions of the installation. The Closed OB/OD Area was used from 1948 to 1955 and includes the Old Burning Ground and Demolition Landfill Area and the Old Demolition Area (Program Management Company, 1999). The Current OB/OD Area was used from 1955 to 1993 and contains the hazardous waste management unit (HWMU) identified in the RCRA permit.

1.2 HYDROGEOLOGIC SETTING

This section summarizes the hydrogeologic setting at FWDA to provide context for the analytical results presented in Section 5 of this GPMR.

The geologic units exposed at FWDA were largely deposited in the Mesozoic era and have been modified by more recent erosion and redeposition. The lithified stratigraphic units are Triassic to Cretaceous in age with uplift and deformation occurring in the Cretaceous Period during the Laramide Orogeny series of mountain-building events in western North America (McCraw et al., 2009). Quaternary alluvial and colluvial deposits unconformably overlay the Mesozoic bedrock in the lower elevation and northern portion of FWDA (Anderson et al., 2003).

The majority of FWDA is underlain by the Triassic-age Chinle Group, which is predominantly non-marine, red-bed siliciclastics. The Chinle Group consists of the Shinarump, Bluewater Creek, Petrified Forest, and Owl Rock formations (Anderson et al., 2003). The Petrified Forest Formation directly underlies most of the installation and is subdivided into three members: Blue Mesa, Sonsela, and Painted Desert. All three members of the Petrified Forest Formation are exposed in various locations across the installation and consist of green-gray smectitic mudstone, light-gray to yellowish-brown cross-bedded sandstone, and reddish-brown and grayish-red smectitic mudstone (Innovar, 2016). In the eastern portion of FWDA, the older Bluewater Creek and Shinarump formations are exposed intermittently between layers of Quaternary alluvium (Innovar, 2016).

The older Permian-age San Andres limestone and Glorieta sandstone formations underlie the Mesozoic Chinle Group beneath FWDA. Groundwater in these deeply buried formations is under confining pressure, resulting in upward hydraulic gradient and local artesian conditions at FWDA. Wells screened in these formations are productive and have historically supplied potable water to the installation. They are not exposed in FWDA and are not known to be contaminated by installation activities.

In the northern portion of FWDA, the surface is covered by either remnants of the Chinle Group or Quaternary alluvial and colluvial deposits. Most of the alluvial deposits are present in the northern area of the installation in lowland areas between bedrock remnants. Alluvial deposits

1 are also present along intermittent streams draining the Nutria Monocline (the Hogback) and the
2 Zuni Mountains. Intermittent streams flow downgradient (north) through the northern portion of
3 FWDA before joining the south fork of the Rio Puerco. Based on soil boring logs from FWDA,
4 alluvial deposits are heterogeneous and thickest near major drainages. The alluvium has been
5 found to be up to 150 feet thick near the south fork of the Rio Puerco. In the Administration
6 Area, alluvium thickness generally ranges between 30 feet and 70 feet.

7 The regional groundwater aquifer near FWDA is present in the Permian San Andres Limestone
8 and Glorieta Sandstone formations (Cooper and John, 1968; Summers, 1972). Shallow
9 groundwater is also present in the unconsolidated alluvium and Mesozoic-age bedrock overlying
10 these units but is typically poor in quality.

11 Groundwater flow in the San Andres-Glorieta aquifer is to the north beneath FWDA and is
12 separated from the shallow groundwater units by shale and claystone across much of FWDA
13 (Anderson et al., 2003). The top of the San Andres-Glorieta aquifer is approximately 1,100 feet
14 below ground surface (bgs) near the Administration Area. Recharge to both the regional aquifer
15 and to shallow groundwater units is from precipitation and snowmelt primarily in the upland
16 areas and along faults south of FWDA. No local FWDA recharge area for this regional aquifer is
17 known or reported to exist.

18 Shallow groundwater flow in the southern portions of the installation (OB/OD Area) is to the
19 north. Groundwater recharge occurs in the higher elevations and discharges to the arroyos.
20 Substantial thicknesses of alluvium are not present in the OB/OD Area, and shallow groundwater
21 typically occurs in the bedrock units in these areas; however, water-bearing zones are
22 occasionally identified in the alluvium present in arroyo bottoms.

23 The groundwater flow direction in the alluvium present in the northern portion of FWDA is
24 predominantly southwest and west. Along the northern border of the installation, hydraulic
25 communication exists between the groundwater and the Rio Puerco during periods of active
26 stream flow. Groundwater flow in the alluvium occurs primarily in discontinuous,
27 stream-deposited sand and gravel units. Groundwater flow in the bedrock units in the northern
28 portion of FWDA is generally to the west. The direction of groundwater flow in the bedrock
29 units is largely controlled by geologic structural features.

30 The depth to water (DTW) at FWDA is generally between 10 feet and 100 feet bgs. Groundwater
31 is present at shallow depths in the alluvium along drainages, including the Rio Puerco, with
32 DTW ranging from 15 feet to 69 feet bgs in northern area alluvial aquifer monitoring wells
33 during this reporting period (January 2018 through June 2018). DTW in the northern area
34 bedrock aquifer monitoring wells is also generally shallow, ranging from 30 feet to 66 feet bgs.
35 Depth to water in background monitoring wells BGMW08 and BGMW09 exceeded 115 feet;
36 however, these depths were not considered to be representative of the actual depth to water at
37 these locations due to low productivity. The water-bearing zones for these wells contain a high
38 percentage of fine-grained sediments, and it was not possible to remove all fines from the wells'
39 filter packs through development before the April 2018 sampling event. These wells were
40 redeveloped in May 2018 in an attempt to improve productivity.

1.3 REGULATORY BACKGROUND

Environmental restoration activities at FWDA began in 1989 under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 guidelines, as part of the Installation Restoration Program. The one exception was the Current OB/OD Area, Corrective Action Management Unit, which was granted interim status under RCRA.

Since that time, NMED has become the lead regulatory agency. In 2002, NMED determined the remediation pathway would be solely through a RCRA permit for post-closure care of the Current OB/OD Area with a RCRA corrective action module attached to address requirements for other SWMUs and areas of concern (AOCs). The RCRA permit was finalized in December 2005 and became effective December 31, 2005. Since the original permit issuance, the FWDA RCRA permit has been revised through NMED-modifications issued in 2011, 2014, and 2015 (NMED, 2011; NMED, 2014; and NMED, 2015). The 2005 RCRA permit identified one HWMU within the current OB/OD Area (Parcel 3) and a total of 93 SWMUs/AOCs. The 2011 permit modification authorized construction and operation of a Corrective Action Management Unit as a second HWMU. The most recently modified version of the RCRA permit includes the original permit and previous modifications (NMED, 2015).

Since the 1980s, numerous groundwater investigations have been completed at FWDA. Groundwater investigation efforts have primarily focused on five areas.

1. TNT Leaching Beds Area (SWMU 1 located within Parcel 21)
2. Administration Area (multiple SWMUs and AOCs located in Parcel 6, Parcel 7, and Parcel 11)
3. Eastern Landfill Area (SWMU 13 located within Parcel 18)
4. Building 542 (SWMU 11) and Building 600 areas (SWMU 4) located within Parcel 6
5. OB/OD Area (located within Parcel 3).

Numerous groundwater monitoring wells have been installed to characterize the nature and extent of contamination that resulted from activities associated with the OB/OD Area and various SWMUs and AOCs. Figure 1-2 shows the current monitoring well network, pertinent site features, and the reuse parcels at FWDA.

An interim facility-wide GMP is required by RCRA permit Section V.A and describes the groundwater monitoring activities to be conducted as part of ERP at FWDA. The current groundwater monitoring well network has been designed to evaluate the horizontal and vertical extent of chemical constituents in groundwater and the transport of chemicals that originate from multiple sources. The current GMP combines the original 2008 plan, approved by NMED, and subsequent annual revisions. Revisions to the GMP are based on an analysis of historical groundwater monitoring data and a data quality objective assessment. Sampling under the NMED-approved GMP has been ongoing since 2008. The results of the monitoring activities are documented in semiannual groundwater monitoring reports and submitted to NMED, tribes, and other stakeholders.

1 **1.4 DOCUMENT ORGANIZATION**

2 This GPMR is organized to comply with the guidance presented in *General Reporting*
3 *Requirements for Routine Groundwater Monitoring at RCRA Sites* (NMED, 2003). The
4 remainder of this GPMR is organized into the following sections.

- 5 • Section 2 provides a discussion of the activities or scope of services performed during the
6 January 2018 through June 2018 reporting period.
- 7 • Section 3 presents the applicable regulatory criteria against which sample analytical
8 results are compared for FWDA.
- 9 • Section 4 presents results of the quarterly groundwater elevation surveys.
- 10 • Section 5 presents groundwater sample analytical data for the January 2018 through June
11 2018 reporting period.
- 12 • Section 6 presents a summary discussion of the groundwater monitoring results.
- 13 • Section 7 presents a list of the works cited in this GPMR.

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2.0 SCOPE OF SERVICES

This section presents an overview of the field activities, laboratory analyses, and data management activities conducted from January 2018 through June 2018. Field activities conducted during the reporting period included drilling and installation of four bedrock background monitoring wells, two groundwater elevation surveys, and one groundwater sampling event. All monitoring activities were conducted in accordance with the GMP (Sundance, 2017b). The groundwater monitoring locations are shown on Figure 1-2.

2.1 BEDROCK BACKGROUND MONITORING WELL INSTALLATION

Northern area bedrock background monitoring wells BGMW07, BGMW08, BGMW09, and BGMW10 were installed in March 2018. The four new monitoring wells were installed in parcels 11, 13, and 14. All four wells were installed in the bedrock Petrified Forest Formation and screened in a water-bearing sandstone unit. The background bedrock monitoring wells were installed to provide supplemental background data within the water-bearing bedrock sandstone units currently being evaluated for contaminant plume nature and extent.

2.2 GROUNDWATER ELEVATION MEASUREMENTS

Groundwater elevation surveys were performed at FWDA on January 11 and 12, 2018, and April 22, 2018. During the January 2018 elevation surveys, DTW was measured at 63 northern area groundwater monitoring wells and 10 piezometers (Administration Area and Workshop Area), and during the April 2018 elevation survey, DTW was measured at 67 northern area groundwater monitoring wells and 10 piezometers. Of the 71 monitoring wells visited, 47 locations were alluvial monitoring wells and 20 were bedrock monitoring wells, including the four new bedrock background wells (Table 2-1). Access to the OB/OD Area has not been permitted for periodic monitoring since April 2013 due to explosive hazards associated with excavating and removing unexploded ordnance (UXO) and munitions and explosives of concern. As a result, groundwater elevation measurements were not collected in the OB/OD Area in January 2018 or April 2018.

As a health and safety consideration, water-level measurements were collected by two-person teams. One team member documented the field measurements and the other operated the water-level meter. The DTW was measured from the top of the casing reference point down to the surface of the groundwater at each monitoring well and piezometer using a Solinst model 101 water-level meter. The DTW measurements were recorded on field data sheets or in field notebooks to the nearest 0.01 foot. Copies of the field notes are provided in Appendix A.

The portions of the water-level meter probe and tape that contacted the groundwater or monitoring well casing interior were decontaminated after each use by washing with Liquinox™ soap solution and rinsing with deionized water. Decontamination fluids were contained in 5-gallon buckets or 14-gallon open head high-density polyethylene drums for later disposal at the FWDA evaporation tank.

The DTW data were tabulated and compared to historical data to identify potential field measurement errors. After this evaluation, the groundwater elevation at each monitoring location was calculated by subtracting the DTW from the surveyed elevation of the top of casing reference point. The groundwater elevation data were subsequently used to generate alluvial aquifer groundwater elevation contour maps and calculate hydraulic gradients for the alluvial and

bedrock water-bearing units at FWDA. The groundwater elevations and groundwater flow directions are presented in Section 4 of this GPMR.

2.3 GROUNDWATER SAMPLING

The groundwater sampling event for the reporting period was performed from April 23, 2018, to May 4, 2018. Groundwater samples were collected from 63 of the 93 monitoring wells listed in the GMP (Sundance, 2017b); FW35 (dry since 2015), MW18S (dry since installation in 1994 and not listed in GMP), and MW22S (dry since fall 2016) were confirmed dry during this groundwater sampling event and could not be purged or sampled. BGMW08 was purged, but due to poor recharge the well was not sampled. The monitoring wells in the OB/OD Area also were not sampled due to the explosives hazards associated with the active excavation and removal of UXO, munitions, and explosives of concern (MEC) in the area.

The groundwater samples were analyzed for the constituents listed in Table 2-2. The sample analytical results are presented in Section 5 of this GPMR. Variances from the GMP are also discussed in Section 5.

Groundwater monitoring well purging and sampling were performed using a variety of sampling techniques and equipment including: dedicated low-flow pneumatic pumps from BESST, Inc.; dedicated pneumatic pumps from Bennett Sample Pumps, Inc.; a non-dedicated Grundfos Redi-Flo 2® (Grundfos) submersible pump; a non-dedicated Geotech 1.66 Reclaimer positive air displacement pump (Reclaimer); and disposable bailers (Table 2-2). Samples for dissolved metals analysis were field filtered using disposable 0.45 micrometer (µm) cartridge filters, and samples for perchlorate analysis were field filtered using disposable syringes with 0.2 µm filters. Table 2-2 lists the purging and/or sampling techniques used during the April 2018 event. Using a Horiba Instruments, Inc., model U-52 water-quality meter, the following groundwater-quality parameters were measured during well purging operations.

- potential hydrogen (pH)
- temperature
- specific conductance
- dissolved oxygen (DO)
- turbidity
- oxidation-reduction potential (ORP).

Data were recorded on groundwater sampling field data sheets. The groundwater sampling field data sheets for each monitoring well are provided in Appendix B. Water quality meters were calibrated daily before sampling according to manufacturer specifications, as specified in the GMP and as follows:

U-52 Auto calibration procedures

The following parameters are calibrated (at 25°C):

- pH: Set to 4.01 (zero-point calibration); the span is adjusted to the factory default value.

- Conductivity: 0.449 S/m (4.49 mS/cm, span calibration); the zero point is adjusted to the factory default value.
- Turbidity: 0 NTU (zero-point calibration); the span is adjusted to the factory default value.
- DO: 8.92 mg/L (span calibration); the zero point is adjusted to the factory default value.

If the air temperature changes, the readout value may not be stable. Ensure that the ambient air temperature is the same temperature as the calibration solution, because the internal probe temperature sensor and external temperature sensor (in the calibration solution) are used for the auto calibration. Allow the probe and standard solution to equilibrate for 1 hour if a thermometer is not available to verify that these temperatures are the same. Do not hold the probe while performing the auto calibration. Body temperature may elevate the internal temperature sensor measurement creating DO calibration error.

1. Remove the sensor guard and wash the sensor probe 2 or 3 times with deionized water.
 2. Remove the transparent calibration cup.
 3. Fill the transparent calibration cup to the line with pH 4 standard solution. The transparent calibration cup has With TURB Measurement and Without TURB Measurement gauge lines.
 4. Press the control unit's CAL key to set the calibration mode.
 5. Press the down key to move the cursor to "Auto Calibration", then press the ENTER key.
 6. Immerse the sensor probe in the transparent calibration cup. Check that the pH sensor, ORP sensor, reference electrode, conductivity sensor, turbidity sensor and temperature sensor are submerged in the pH 4 standard solution and check that there are no air bubbles on the sensor.
 7. With the sensor probe still in the transparent calibration cup, place the transparent calibration cup into the black calibration cup.
 8. When all the sensor values have stabilized, press the ENTER key to start calibration.
- Do not remove the sensor probe from the calibration solution. Turbidity data will display "----" until the calibration is completed. Calibration is finished when the message "Cal complete. MEAS to measure." appears. Press the MEAS key to set the measurement screen, then start measurement.

The meters were re-calibrated if issues with the original calibration were noticed during verification or during use in the field. Horiba U-52 calibration logs are provided in Appendix C. Monitoring wells equipped with dedicated low-flow pneumatic pumps were purged in accordance with the GMP and *Use of Low-Flow and Other Non-Traditional Sampling Techniques for RCRA Compliant Groundwater Monitoring* (NMED, 2001). Well purging was performed until water-quality parameters stabilized within the following ranges.

- pH (± 0.5 standard units)
- temperature ($\pm 10\%$)
- specific conductance ($\pm 10\%$)
- DO ($\pm 10\%$)
- turbidity ($\pm 10\%$)
- ORP ($\pm 10\%$).

In general, drawdown was minimized during final parameter stabilization and during sampling to ensure that formation water was being measured and sampled. Drawdown was minimized by slow purging of the monitoring wells; however, poor groundwater production from the screened intervals resulted in greater than desired drawdown in some monitoring wells. During the initial period of low-flow pumping before stabilization, drawdown in 9 of 33 wells was greater than 0.33 foot or 4 inches, but only greater than 1.0 foot in three monitoring wells (TMW11, TMW47, and TMW14A) during this monitoring event.

Monitoring wells not equipped with low-flow pumps were purged by pumping or bailing three well volumes of the water in each monitoring well. Water-quality parameters were measured during the well purging operations until they stabilized within the ranges presented above. If a monitoring well was emptied before three well volumes were purged due to a slow recharge rate, then the monitoring well was sampled after it recharged with sufficient groundwater volume. This typically required the sampling team to return to the monitoring well location the next day to collect the groundwater sample. Seven monitoring wells in the monitoring program are equipped with dedicated Bennett Sample Pumps. The monitoring wells equipped with Bennett Sample Pumps were purged and sampled using the installed pumps.

The 25 monitoring wells not equipped with dedicated pumps were purged dry, either by bailing, with a non-dedicated, Grundfos submersible electric pump, or with a Reclaimer pump. Of the 25 monitoring wells, 14 were purged using the Grundfos submersible pump, 9 were bailed, and two were purged with the Reclaimer pump. The Grundfos and Reclaimer pump discharge tubing was discarded after each associated well was purged. The Grundfos and Reclaimer submersible pumps were decontaminated between sample locations by pumping Liquinox[®] soap solution followed by two deionized water rinse cycles through the pump. Additionally, the pump exterior and wiring/safety cable were wiped down using Liquinox[®] soap solution followed by two deionized water rinse wipes. Disposable bailers used for well purging were discarded and not reused at other sample locations. All samples from monitoring wells without dedicated pumps were collected using disposable bailers, which were also discarded after use and not reused at other sample locations.

Four quality control (QC) equipment rinsate samples were collected, two were collected from the decontaminated Grundfos submersible pump, and two were collected from the decontaminated Reclaimer pump. The analytical results were evaluated as part of the data validation process. The four equipment rinsate samples were collected according to the sampling frequency specified in the GMP (Sundance, 2017b). The equipment rinsate sample results indicate equipment decontamination was sufficient to prevent cross contamination.

2.4 DATA MANAGEMENT AND VALIDATION

Analytical data quality assurance (QA) and QC methods were performed in accordance with *Quality Systems Manual (QSM) for Environmental Laboratories, Version 5.0* (QSM; U.S. Department of Defense [DoD]/U.S. Department of Energy [DOE], 2013). Field QC samples including field duplicates, matrix spike (MS)/matrix spike duplicate (MSD) samples, equipment rinsate blanks, and trip blanks were submitted for laboratory analysis. Laboratory QA/QC samples—including method blank and MS/MSD samples—were also analyzed.

An electronic database was created to support the data management and tracking activities for the groundwater sampling event. The database was used to prepare sample labels in advance of the sampling event and to prepare daily electronic chain-of-custody forms during the sampling event. Sample identifiers were assigned based on the convention described in the GMP (Sundance, 2017b). Groundwater sample identifiers consisted of the monitoring well ID and sample month and year. The QC samples used the same ID number as the parent sample followed by the MS or MSD, as specified in the GMP. The duplicates relating to normal samples are presented in Table 2-2. Copies of the chain-of-custody forms were emailed daily to the project chemist to facilitate sample tracking and laboratory interaction, and are presented in Appendix C.

Sample analyses were performed by TestAmerica Laboratories, Inc. (TestAmerica), in accordance with the QSM, Version 5.0 (DoD/DoE, 2013). Analytical reports in PDF format are provided in Appendix D Attachment 2. Electronic data deliverables (EDDs) of the analytical results for each sample delivery group were provided by TestAmerica for validation.

The sample result EDDs were loaded into the automated data review (ADR) software for data validation. Results were subjected to 90% Stage 3 and 10% Stage 4 validation using the ADR software. ADR files are provided in Appendix D Attachment 3. An additional 20% of the sample results were subjected to EPA-compliant data verification by the project chemist. The validated data output files from the ADR software were exported to the FWDA electronic data management system (EDMS). The validated data table output presented in this GPMR was verified with EDMS content through manual and electronic reviews to ensure consistency. The overall data validation assessment found that data were of sufficient quality to evaluate data quality objectives. Information about the data validation process and the results are provided in Appendix D, Data Quality Assessment Reports.

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3.0 REGULATORY CRITERIA

On December 1, 2005, NMED issued a RCRA permit (EPA ID No. NM 6213820974) to the Army (permittee)—FWDA owner and operator. The permit established the general and specific standards and requirements for activities pursuant to the New Mexico Hazardous Waste Act, as amended; New Mexico Statutes Annotated 74-4-1, Hazardous Waste Act; and the New Mexico Hazardous Waste Management Regulations, New Mexico Administrative Code (NMAC) 20.4.1. Since the original permit issuance, the FWDA RCRA permit has been revised through NMED-issued modifications on June 27, 2011; April 4, 2014; and February 25, 2015 (NMED, 2011; NMED, 2014; and NMED, 2015). A renewal of the FWDA RCRA permit is currently in progress. Until the renewal process is complete, all environmental activities at the installation will be conducted in accordance with the requirements and modifications of the current RCRA permit (NMED, 2015).

As required by Section V.A of the permit, the Army developed and implemented a groundwater monitoring program. A GMP was developed according to provisions of the permit, Section VIII.B.1 (NMAC 20.4.1.500, incorporating 40 Code of Federal Regulations [CFR] 264.602) (TPMC, 2008). NMED approved the initial GMP in March 2008. The GMP has been revised annually and submitted to NMED from 2009 through 2017. All groundwater monitoring, sampling, and reporting activities are conducted in compliance with the RCRA permit, applicable permit attachments, and the GMP.

Attachment 7 of the RCRA permit (NMED, 2015) provides a hierarchy for the selection of groundwater screening value criteria applicable to the FWDA GMP. Groundwater analytical results are evaluated and compared to these groundwater screening values. The following documents and regulations are used to determine whether the concentration of a particular hazardous constituent exceeds the RCRA permit groundwater screening value (NMED, 2015).

1. New Mexico Water Quality Control Commission (NM WQCC) standards for the analytes listed in NMAC 20.6.2.7.T.(2) and NMAC 20.6.2.3103.
2. EPA drinking water maximum contaminant levels (MCL) provided under 40 CFR 141 and 40 CFR 143.
3. If both an NM WQCC standard and an EPA MCL have been established for a contaminant of potential concern, the lowest value of 1. and 2. above will be selected.
4. If no NM WQCC standard or EPA MCL has been established for a carcinogenic hazardous constituent, values will be selected from the most recent version of the EPA regional screening levels (RSLs) for tap water (May 2019), adjusted to a target excess cancer risk level of 1×10^{-5} .
5. If no NM WQCC standard or EPA MCL has been established for a non-carcinogenic hazardous constituent, values will be selected from the most recent version of the EPA RSLs for tap water (May 2019) with a target hazard index of 1.0.

1 6. Previously, no NM WQCC standard or EPA MCL standard was published for
2 perchlorate. An EPA MCL standard of 15 micrograms per liter (µg/L) was published in
3 the November 2017 update, and remains the current standard as of May 2019 (EPA,
4 2019). The EPA MCL value supersedes the previously selected EPA tap water RSL, so
5 this standard will be followed for perchlorate in accordance with Attachment 7 of the
6 RCRA permit for FWDA (NMED, 2015).

7 Some analytes do not have a published NM WQCC or MCL but have RSLs listed for both
8 carcinogenic risks and non-carcinogenic hazards. For these analytes having both carcinogenic
9 and non-carcinogenic RSL values, the lower value between the adjusted carcinogenic RSL
10 (target excess cancer risk level of 1×10^{-5}) and the non-carcinogenic RSL will be selected for the
11 purpose of tracking the presence/absence of analytes. Table 3-1 presents the selected
12 groundwater screening values for each analyte based on the hierarchy outlined in this section.

13 Reporting requirements are specified in the GMP in accordance with the RCRA permit. A
14 schedule of regulatory deliverables is included in the GMP. RCRA permit Section V.A.2
15 requires the format to be consistent with *General Reporting Requirements for Routine*
16 *Groundwater Monitoring at RCRA Sites* (NMED, 2003).

4.0 GROUNDWATER MEASUREMENTS AND DATA COLLECTION

Groundwater elevation surveys were performed during January 2018 and April 2018. FWDA groundwater elevation surveys in monitoring wells and piezometers are currently performed quarterly. As discussed in Section 2 of this GPMR, no groundwater elevation measurements were collected in the OB/OD Area during these events. Groundwater elevation data were used to calculate hydraulic gradients and determine groundwater flow direction in the northern area alluvium and bedrock. Table 4-1 and Table 4-2 present the DTW measurements in feet below top of casing (TOC), the surveyed elevation of the TOC, and calculated groundwater elevations in feet above the North American Vertical Datum of 1988 (or NAVD88). Figure 4-1, Figure 4-2, Figure 4-3, and Figure 4-4 show the groundwater elevation maps for the two groundwater monitoring events.

4.1 NORTHERN AREA GROUNDWATER ELEVATIONS

Shallow groundwater in the northern area is present in both unconsolidated alluvium and bedrock. The water-quality and hydraulic properties differ between these two groundwater units. Therefore, the groundwater elevation data and chemistry are presented and discussed separately. Table 4-1 presents the groundwater elevation data for monitoring wells screened in the shallow alluvium. Table 4-2 presents the groundwater elevation data for monitoring wells screened in the underlying bedrock. The northern area alluvial groundwater elevation contours for January 2018 are shown on Figure 4-1 and the contours for April 2018 are shown on Figure 4-2. As directed in an NMED Disapproval Letter dated August 7, 2017, water-level elevation contours were not prepared for the bedrock wells (NMED, 2017). The alluvial groundwater elevation contours presented on Figure 4-1 and Figure 4-2 were drafted using the mathematical interpolation algorithms in Surfer® Version 13 software. Kriging geostatistical interpolation methods were used to generate a 100-foot by 100-foot interpolated grid based on the measured groundwater elevations. An experienced hydrogeologist reviewed site-specific information from the conceptual site model and groundwater elevation data, and digitally adjusted the contours based on known hydrogeologic conditions and professional judgment. Boundary conditions were used to crop the interpolation grids based on geologic constraints and data limitations.

4.1.1 Northern Area Alluvial Groundwater System

The groundwater flow direction in the alluvium is from potentiometric highs in the north and south toward a potentiometric low west of the Administration Area (Figure 4-1 and Figure 4-2). From the Administration Area, the groundwater flow direction is generally to the west. These groundwater flow directions are consistent with recent historical data.

A localized groundwater mound is present in the Administration Area near monitoring wells MW01, MW02, and MW03. This feature has been previously attributed to a leaking water storage cistern (U.S. Geological Survey [USGS], 2011). The cistern is no longer in service, and the groundwater mound was expected to attenuate over time. However, the groundwater mound is still observed in the water-level data for monitoring well MW02. Groundwater supply Well 69 is screened in the deep, confined conditions in the Glorieta sandstone aquifer resulting in artesian conditions. Continuous upward flow of uncontaminated groundwater through the borehole conduit of Well 69 and out into the alluvial aquifer, sustains the persistent 1- to 2-foot high groundwater mound seen in both the January 2018 and April 2018 monitoring events. Water levels from the January event contoured at a 1-foot interval shows the mound can influence

water levels, and thus flow directions, up to several hundred feet outward from Well 69. This mound significantly influences groundwater flow and quality in the alluvial aquifer of the Administration Area as reflected by the flat area of the 5-foot potentiometric contours of Figure 4-1 and Figure 4-2. Well 69 is currently used as a minor non-potable water supply at FWDA.

Groundwater flow direction and elevations were consistent with recent historical data (Table 4-1). Hydraulic gradients ranged from 0.002 foot/foot (ft/ft) to 0.03 ft/ft in the alluvial groundwater unit. The well pairs used for the calculations were TMW24 and TMW25, TMW40S and TMW25, TMW28 and TMW24, and TMW31S and TMW40S. The steepest gradients were found in the southeast portions of the monitoring area, and the flattest gradients were found in the central portion of the monitoring area. Hydraulic gradients were consistent in direction or magnitude between the January 2018 and April 2018 monitoring events and were like those calculated in previous monitoring events from 2015 through 2017.

4.1.2 Northern Area Bedrock Groundwater System

The bedrock aquifer in the northern area consists of two water-bearing sandstone layers within the Painted Desert Member of the Petrified Forest Formation. The upper water-bearing sandstone layer is believed to be a discontinuous and isolated unit, and is approximately 15 feet thick. Monitoring well TMW02 is completed in and screened across the upper sandstone layer. The remaining bedrock monitoring wells are completed in the lower sandstone layer, which is separated from the upper by a relatively impermeable claystone sequence.

Bedrock groundwater elevation contours are not shown on Figure 4-3 and Figure 4-4 (NMED, 2017) due to insufficient density of bedrock wells across the northern area to provide an accurate representation; however, groundwater elevation values are included on the figures. The groundwater elevations were consistent with those measured in previous monitoring events from 2016 and 2017. Potentiometric levels in the bedrock groundwater unit are slightly higher than in the alluvial groundwater unit and exist under hydraulically confined conditions in most of the northern area. These confined conditions indicate an upward hydraulic gradient that inhibits local downward movement of the shallower, potentially contaminated alluvial groundwater.

Potentiometric levels measured in wells TMW31D and TMW39D are lower than the water level elevations measured in TMW31S and TMW39S because the bedrock unit is relatively less confined and hydrostatic pressure is lower in this part of the well network. Near the outcrop of the water-bearing bedrock sandstone unit south of the well network, the alluvium overburden is thinner and the confining layer for the bedrock unit pinches out. The confining unit for the bedrock groundwater unit is missing near monitoring wells TMW30 and TMW49. These are the southern-most bedrock wells in the northern area and are located north of where the water-bearing sandstone crops out. Soil logs from TMW30 (USACE, 2015) and TMW49 (USACE, 2012) do not indicate the presence of a definite claystone confining layer separating the unconsolidated alluvium from the water-bearing sandstone in bedrock. Alluvial and bedrock groundwater may potentially communicate in this vicinity.

Hydraulic gradients for bedrock groundwater monitoring wells were calculated in the Workshop Area and range from 0.001 ft/ft to 0.008 ft/ft, with a mean of 0.006 ft/ft. This average was calculated using groundwater elevations from wells aligned east to west following the regional bedrock groundwater flow direction. The well pairs used for the calculations were TMW39D and TMW19, TMW32 and TMW18, and TMW39D and TMW16. Groundwater-level elevation data from monitoring well TMW02 were not used to calculate hydraulic gradients because the

1 monitoring well is completed in a different water-bearing zone than the other bedrock
2 monitoring wells.

3 Groundwater flow direction has not been fully characterized in the bedrock aquifer beneath the
4 Workshop Area. Additional characterization of bedrock groundwater flow conditions is proposed
5 in *Final Groundwater Supplemental RCRA Facility Investigation Work Plan, Revision 4, Fort*
6 *Wingate Depot Activity, McKinley County, New Mexico* (Sundance, 2018).

7 **4.2 OPEN BURN/OPEN DETONATION AREA GROUNDWATER ELEVATIONS**

8 No groundwater elevation data were collected in this area during the January 2018 through June
9 2018 reporting period. No historical data are presented in this GPMR. Groundwater elevation
10 surveys of the OB/OD Area wells may resume when access to the area is not restricted due to
11 UXO and munition safety concerns.

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5.0 NORTHERN AREA ANALYTICAL RESULTS

The groundwater quality parameters and laboratory analytical results for the April 2018 groundwater sampling event are presented in Table 5-1 through Table 5-12. Figure 5-1 through Figure 5-12 illustrate the known extent of groundwater contaminants identified at FWDA.

The laboratory data were reviewed and determined to be valid and suitable for the project objectives. Data Quality Assessment Reports are provided in Appendix D. The historical groundwater analytical data are provided in Appendix E.

5.1 WATER-QUALITY PARAMETERS

Water-quality parameters provide useful data to assess general water quality and evaluate contaminant fate and transport. The stable parameter readings and drawdown measurements collected during monitoring well purging activities are presented in Table 5-1. Some groundwater parameter measurements in the data set are biased high due to monitoring well design, limiting aquifer conditions, and different sample collection methods. Therefore, the median value is presented for each parameter for discussion purposes.

The specific conductance of groundwater is a general measure of water quality. Significant changes—usually increases—may indicate a release or some other disturbance of the health of the water body and associated biota. Anthropogenic disturbance tends to increase the amount of dissolved solids entering water, which results in increased conductivity. Groundwater-specific conductance values measured during the April 2018 sampling event ranged from 0.801 millisiemens per centimeter (mS/cm) to 13.4 mS/cm. Median values for groundwater from the northern area monitoring wells were 3.73 mS/cm and 2.94 mS/cm in the alluvial and bedrock units, respectively.

For most groundwater, multiplying the specific conductance value in microsiemens per centimeter ($\mu\text{S}/\text{cm}$) by a factor of 0.55 to 0.75 yields an approximate total dissolved solids (TDS) concentration in milligrams per liter (mg/L; Hem, 1989). When values in $\mu\text{S}/\text{cm}$ are converted to TDS concentrations using a conversion factor of 0.65—the median of the range cited in Hem—the median approximate TDS values for groundwater in the alluvial and bedrock units at FWDA are 2,425 mg/L and 1,911 mg/L, respectively.

Groundwater pH measurements ranged from 6.34 to 10.01, with two data points above 9.0 in groundwater from both the alluvial and bedrock aquifers. Median pH values were 7.83 and 8.35 in the northern area alluvial and bedrock groundwater units, respectively.

The DO concentrations are an indicator of aerobic or anaerobic conditions in the groundwater. DO values ranged from 0.0 to 15.96 mg/L, with median values of 1.71 mg/L and 2.5 mg/L for the alluvial and bedrock groundwater units, respectively. Low DO values indicate that anaerobic conditions (<1 mg/L) are likely present in some areas of FWDA. The DO values for samples collected using bailer techniques and Bennett pumps are somewhat elevated due to the exposure of water to atmospheric air within the well casing during well recharge or sampling.

The oxidation state for groundwater was measured as the ORP and subsequently calculated as the reduction potential (Eh). These values are a measure of electrical potential in the aquifer that can be used to determine the stability of contaminants in groundwater. The Eh values were calculated from the instrument-specific ORP readings using a formula that accounts for the

instrument calibration standard and location-specific water temperature (Horiba Instruments, Inc., 2014; Matsushita et al., 1974). The formula used for converting ORP to Eh is presented in Table 5-1. The Eh values ranged from -24 millivolts (mV) to 517 mV across the monitoring area. Median values of Eh were 354.34 mV in water from alluvial aquifer monitoring wells and 285.47 mV in water from bedrock monitoring wells, respectively.

5.2 GROUNDWATER ANALYTICAL RESULTS

5.2.1 Nitrate and Nitrite

Nitrate and nitrite were analyzed by EPA Method 9056 and reported as nitrogen mass concentrations, nitrate-nitrogen, and nitrite-nitrogen. The original batch sample from TMW10, BGMW03, MW02, and MW22D for nitrate and nitrite was analyzed outside of holding time due to a shipping carrier delay. A replacement sample volume was collected and reanalyzed. Results from initial analysis and the reanalysis are included in Table 5-2.

Nitrate was detected in most analyzed samples. Nitrate concentrations ranged as high as 140 mg/L and exceeded the screening value of 10 mg/L in samples from 11 northern area alluvial monitoring wells. The highest nitrate concentrations in the alluvial groundwater were found in the Workshop Area immediately downgradient of the TNT Leaching Beds (SWMU 1) (120 mg/L and 140 mg/L in monitoring wells TMW03 and TMW40S, respectively). The extent of nitrate contamination downgradient (to the west and the north) of the Administration Area has not been defined. In addition, nitrate was detected at a concentration of 14 mg/L in the groundwater sample collected from background alluvial monitoring well BGMW02 located on the FWDA boundary and upgradient of any SWMUs or AOCs. Figure 5-1 shows the groundwater nitrate and nitrite concentration data for the alluvial monitoring wells in the northern area.

Nitrate was detected in samples from bedrock monitoring wells in the northern area with less frequency and at concentrations roughly an order of magnitude lower than concentrations in alluvial monitoring wells. The maximum groundwater nitrate concentration in bedrock monitoring wells was 88 mg/L and exceeded the screening value of 10 mg/L in samples from four monitoring wells (TMW02, TMW30, TMW31D, and TMW48). The highest groundwater nitrate concentrations in the bedrock groundwater unit were found in the Workshop Area (samples from monitoring well TMW02) immediately downgradient of the TNT Leaching Beds (SWMU 1). Samples from monitoring wells downgradient of the Building 528 Complex (SWMU 27) had nitrate exceedances at concentrations up to 15 mg/L (Table 5-2).

Nitrite was detected above the screening value of 1.0 mg/L in the groundwater sample collected from alluvial monitoring well TMW08 at a concentration of 3.7 mg/L; no nitrite groundwater concentrations exceeded the screening value in bedrock monitoring wells during this monitoring event. Figure 5-2 shows the groundwater nitrate and nitrite concentration data for the bedrock monitoring wells in the northern area.

The *Final Groundwater Supplemental RCRA Facility Investigation Work Plan, Revision 4, Fort Wingate Depot Activity, McKinley County, New Mexico* (Sundance, 2018a) was approved by NMED in spring 2018. This Supplemental RFI Work Plan proposes locations for additional groundwater monitoring wells necessary to further delineate the alluvial and bedrock groundwater nitrate contaminant plumes.

5.2.2 Explosive Compounds

Groundwater samples were analyzed for explosives using EPA Method 8330B. A summary of the explosive analytical results is presented in Table 5-3.

The following explosive compounds were detected in groundwater samples from alluvial and bedrock monitoring wells during the April 2018 groundwater sampling event (the maximum concentration is shown in parentheses and **bold** values exceeded the selected screening values). Values with a “J” notation indicate that an analyte was analyzed for and positively identified by the laboratory; however, the reported concentration is estimated because the result is less than the limit of quantitation.

- 1,3,5-trinitrobenzene (6.0 J µg/L in alluvial well TMW03)
- 2-amino-4,6-dinitrotoluene (2.4 J µg/L in alluvial well TMW04)
- 3,5-dinitroaniline (22 J µg/L in alluvial well TMW40S)
- 4-amino-2,6-dinitrotoluene (3.2 J µg/L in alluvial well TMW03)
- octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX) (62 µg/L in alluvial well TMW40S)
- nitrobenzene (**5.3** J µg/L in alluvial well TMW40S)
- hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX) (**1,000** µg/L in alluvial monitoring well TMW40S).

Explosive compounds nitrobenzene and RDX were detected above the screening value in groundwater samples from the April 2018 monitoring event. RDX is a recognized groundwater explosive compound of interest. The compound RDX is routinely detected at concentrations greater than the screening value of 9.7 µg/L in monitoring wells downgradient of the TNT Leaching Beds (SWMU 1). RDX exceeded the screening value at alluvial monitoring wells TMW03 (360 µg/L), TMW40S (1,000 µg/L), and TMW23 (84 J µg/L) in April 2018 samples. Nitrobenzene was detected at a concentration of 5.3 J µg/L in alluvial monitoring well TMW40S immediately downgradient of the TNT Leaching Beds (SWMU 1), which is greater than the screening value. The RDX plume is well defined in the alluvial groundwater unit. Figure 5-3 and Figure 5-4 illustrate RDX and explosives concentrations for the alluvial and bedrock groundwater units.

Other explosives analytes are occasionally detected in FWDA groundwater. Detections occur most frequently and at higher concentrations in the alluvial groundwater unit downgradient of the TNT Leaching Beds (SWMU 1). During this monitoring event, no other explosives compounds except nitrobenzene and RDX were detected above their screening values.

No explosives were detected above screening values in the bedrock aquifer during this sampling period.

5.2.3 Perchlorate

Groundwater samples were analyzed for perchlorate by EPA Method 6860. A summary of analytical results is presented in Table 5-4. Groundwater perchlorate-concentration data for the northern area alluvial and bedrock aquifers are shown on Figure 5-5 and Figure 5-6, respectively. The highest perchlorate concentrations were found in groundwater samples collected from the

bedrock monitoring wells in the Workshop Area. The extent of perchlorate groundwater contamination has not been completely delineated to date.

Perchlorate was detected in groundwater samples from both alluvial and bedrock monitoring wells in the northern area. Perchlorate concentrations exceeded the groundwater screening value at alluvial monitoring wells TMW01, TMW31S, and TMW39S during this reporting period. Perchlorate concentrations exceeded the screening value in samples from seven bedrock monitoring wells (TMW30, TMW31D, TMW32, TMW39D, TMW40D, TMW48, and TMW49). The maximum perchlorate concentration was detected in bedrock monitoring well TMW49 (1,400 J $\mu\text{g/L}$).

Perchlorate concentrations in bedrock groundwater units were greater than those in alluvial groundwater, suggesting that the source area of perchlorate contamination is located upgradient in a recharge area for the bedrock groundwater unit. Based on site history and analytical results from previous investigations, the source area for perchlorate contamination is believed to be the Building 528 Complex (SWMU 27) (USGS, 2011). The perchlorate contamination identified in the alluvial groundwater unit is collocated with the bedrock groundwater plume and is believed to result from a common source.

The *Final Groundwater Supplemental RCRA Facility Investigation Work Plan, Revision 4, Fort Wingate Depot Activity, McKinley County, New Mexico* (Sundance, 2018a) was approved by NMED in spring 2018. This Supplemental RFI Work Plan proposes locations for additional groundwater monitoring wells necessary to further delineate the alluvial and bedrock groundwater perchlorate contaminant plumes. Additionally, *Letter Work Plan Downgradient Alluvial Aquifer Investigation & Installation of One Additional Well* (USACE, 2018), proposes the installation of proposed well TMW64 to delineate the eastern extent of the bedrock groundwater perchlorate plume.

5.2.4 Volatile Organic Compounds

Groundwater contamination from volatile organic compounds (VOCs) at concentrations above groundwater screening values is limited to a small number of shallow alluvial monitoring wells in the Administration Area. The detected VOCs are primarily associated with chlorinated solvents, petroleum fuels, and their degradation products. Groundwater samples were analyzed for VOCs using EPA Method 8260C. A summary of the VOC analytical results is presented in Table 5-5. Eight VOCs were detected in one or more groundwater samples collected during the April 2018 groundwater sampling event. Figure 5-7 and Figure 5-8 show the VOC data for groundwater samples collected in the northern area alluvial and bedrock monitoring wells, respectively.

The following VOCs were detected in groundwater samples collected from alluvial and bedrock monitoring wells during the April 2018 groundwater sampling event (the maximum detected concentrations are shown in parentheses and **bold** values exceed the selected screening values).

- 1,2-dichloroethane (1,2-DCA) (**81 J** $\mu\text{g/L}$ at alluvial monitoring well MW18D)
- acetone (14 J $\mu\text{g/L}$ at alluvial monitoring well TMW40S, and 3.0 $\mu\text{g/L}$ at bedrock monitoring well TMW37)
- carbon disulfide (1.5 J $\mu\text{g/L}$ at alluvial monitoring well TMW47 and 1.9 J $\mu\text{g/L}$ in bedrock monitoring well TMW38)

- chloroform (0.21 J µg/L at alluvial monitoring well TMW40S, and 0.17 J µg/L in bedrock monitoring well BGMW07)
- chloromethane (0.39 J at bedrock monitoring well TMW17)
- methyl acetate (1.7 J µg/L at alluvial monitoring well TMW08, and 1.9 J µg/L at bedrock monitoring well BGMW10)
- methyl tert-butyl ether (0.59 J µg/L at bedrock monitoring well TMW49)
- toluene (0.69 J µg/L at bedrock monitoring wells TMW18 and TMW37).

The only VOC detected in groundwater samples at concentrations above groundwater screening values was the gasoline additive 1,2-DCA. Groundwater samples collected from two alluvial monitoring wells near a former fueling facility had concentrations above the NM WQCC standard of 5.0 µg/L. Samples collected from monitoring wells MW18D and TMW33 had 1,2-DCA concentrations of 81 J µg/L and 36 µg/L, respectively. No other VOCs were detected in groundwater samples above groundwater screening values.

5.2.5 Other Organic Compounds

Detections of organic compounds other than VOCs in groundwater samples from FWDA are generally sporadic and at concentrations below groundwater screening values. A summary of the detected organic compounds other than VOCs is presented in Table 5-6, Table 5-7, and Table 5-8. Semivolatile organic compounds (SVOCs) were analyzed using EPA Method 8270D. Total petroleum hydrocarbons-diesel range organics (TPH-DRO) and total petroleum hydrocarbons-gasoline range organics (TPH-GRO) were analyzed using EPA Method 8015C. Pesticide compounds were analyzed using EPA Method 8081A. Herbicides were analyzed by EPA Method 8151A. PCBs were analyzed by EPA Method 8082A.

Concentrations of SVOCs, detected in more than one sample are as follows (the maximum detected concentrations are shown in parentheses and **bold** values exceed the selected screening values).

- 2-chloronaphthalene (0.70 J µg/L at alluvial monitoring well TMW47, and 0.31 J µg/L at bedrock well TMW31D)
- 2,4-dinitrophenol (29 J µg/L at alluvial monitoring well TMW03)
- bis(2-ethylhexyl)phthalate (1.5 J µg/L at alluvial monitoring well TMW40S and **19** µg/L at bedrock monitoring well TMW18).
- naphthalene (0.94 J µg/L at alluvial monitoring well TMW47)

Detections of SVOCs are associated with historical releases of explosives compounds and with sampling and laboratory contaminants. The compound 2,4-dinitrophenol, detected in wells TMW03 and TMW40s located downgradient of the TNT Leaching Beds (SWMU 1), is attributed to degrading explosives compounds within the RDX plume.

Bis(2-ethylhexyl)phthalate is a common plastic additive which may be present in a variety of laboratory and sampling equipment (including sample tubing, pump, and laboratory equipment), and was detected in samples from two monitoring wells (TMW40S and TMW18) during the April 2018 sampling event. In 2014, the dedicated Bennett Sample Pump in TMW18 was

refurbished and reinstalled with new plastic components. The plasticizer bis(2-ethylhexyl)phthalate was detected in groundwater samples from TMW18 at concentrations exceeding screening values during sampling events immediately following the refurbishment, but detected concentrations had attenuated below screening levels prior to the April 2018 sampling event. The detected concentration of bis(2-ethylhexyl)phthalate in TMW18 for April 2018 is 19 µg/L, which is greater than the screening value of 6.0 µg/L.

TPH-DRO and TPH-GRO were detected in several samples collected from monitoring wells in the Administration Area. Overall, petroleum hydrocarbons were detected in groundwater samples from 10 alluvial monitoring wells. Bedrock monitoring wells were not sampled for TPH-DRO and TPH-GRO. No regulatory groundwater screening values were identified for TPH-DRO and TPH-GRO according to the RCRA permit (NMED, 2015) hierarchy. Analytical results were instead compared to the petroleum product groundwater screening levels from Table 6-4 in NMED's Risk Assessment Guidance for Site Investigations and Remediation, Volume 1 (NMED, 2019). TPH-DRO detected results are screened against the diesel #2/crankcase oil screening level of 16.7 µg/L or 0.0167 mg/L. For consistency in this report, the NMED screening value for diesel #2/crankcase oil is converted to mg/L as DRO analytical results are presented from the laboratory as mg/L. For TPH-GRO, the gasoline screening level of 10.1 µg/L was used. The maximum detected concentrations are shown in parentheses below, and **bold** values exceed the Risk Assessment Guidance screening values.

- diesel range organics (**0.064 J** mg/L at alluvial monitoring well TMW35)
- gasoline range organics (**41 J** µg/L at alluvial monitoring well MW18D)

All detections of TPH-DRO during the April 2018 event exceeded the screening level of 0.0167 mg/L. Detections of TPH-GRO during the April 2018 event exceeded the screening level of 10.1 µg/L in samples from wells MW01, MW02, and MW18D. The TPH-GRO concentration detected in the sample from well MW20 was 10 J µg/L.

One pesticide compound was detected in one sample from this monitoring period. The pesticide compound delta-hexachlorocyclohexane—commonly known as delta-bhc—was detected at a concentration of 0.031 J µg/L from alluvial monitoring well TMW40S. This detection is not attributed to known groundwater impacts and is below the screening value of 0.25 µg/L. Previous pesticide detections at FWDA are sporadic, at concentrations less than 0.1 µg/L, and do not exceed screening values, where established. Results from pesticides analysis are summarized in Table 5-7. Figure 5-11 depicts the location of the pesticide detection at TMW40s.

New bedrock background monitoring wells BGMW07, BGMW09, and BGMW10 were sampled and analyzed for herbicides by EPA method 8151A as requested by NMED in the Approval with Modifications letter HWB-FWDA-17-008 dated December 30, 2017, for the *Final Fort Wingate Depot Activity Groundwater Monitoring Northern Area Bedrock Background Installation Letter Work Plan* (Sundance, 2017a). One herbicide compound was detected in one sample from this monitoring period. The herbicide compound, 2,2-dichloropropionic acid (dalapon) was detected at a concentration of 1.8 J µg/L from bedrock monitoring well BGMW07. This detection is below the screening value of 200 µg/L. Results from herbicides analysis are summarized in Table 5-7. Figure 5-12 depicts the location of the herbicide detection at BGMW07.

Samples from new bedrock background monitoring wells BGMW07, BGMW09, and BGMW10 were also analyzed for polychlorinated biphenyls (PCBs) by EPA method 8082A. No PCBs were detected in samples from these wells. Results from PCBs analysis are summarized in Table 5-8.

5.2.6 Metals

Groundwater samples were collected and analyzed as dissolved and total metal concentrations at FWDA (Table 5-9 through Table 5-12). Groundwater samples were analyzed for metals by EPA methods 6010C, 6020A, and 7470A. Total metals analysis has been shown in studies to be affected by sediment and the method of monitoring well purging. Total metals analytical results are not representative of groundwater concentrations at many sites. A summary of dissolved metals results by EPA method 6020A is presented in Table 5-9 and a summary of total metals results by EPA method 6020A is presented in Table 5-10. Table 5-11 presents dissolved metals results by EPA method 6010C and 7470A, and total metals results by EPA method 6010C and 7470A are presented in Table 5-12.

Dissolved aluminum, arsenic, iron, manganese, and selenium were detected in multiple groundwater samples above groundwater screening values. It cannot clearly be demonstrated whether the detected concentrations are a result of natural conditions or anthropogenic sources of contamination because background metal groundwater concentrations have not yet been accepted by the regulators for FWDA. Therefore, no contaminant plume maps were created for the total or dissolved metals data, and results are not discussed in this GPMR.

Dissolved metals including aluminum, arsenic, beryllium, chromium, iron, lead, manganese, and vanadium were detected above the screening values in newly installed bedrock monitoring well BGMW09. After a review of drilling, well development, sampling, and laboratory procedures, the results were determined to be representative of groundwater and not cross contamination. BGMW09 has only been sampled once, so no historical results are available for comparison or confirmation of presence for these constituents of potential concern.

Upon collection of sufficient data from new bedrock background monitoring wells BGMW07, BGMW09, and BGMW10, an evaluation of background metal concentrations in the northern area groundwater will be completed and submitted to NMED under separate cover.

5.3 OPEN BURN/OPEN DETONATION AREA ANALYTICAL RESULTS

No groundwater monitoring was performed in the OB/OD Area during this period. No historical analytical results are available for monitoring events after April 2013. A Groundwater RFI was conducted in 2017 that generated groundwater analytical results and was reported under a separate cover. Access to the OB/OD Area has not been permitted for periodic monitoring since April 2013 due to explosive hazards associated with excavation and removal of UXO and MEC. Periodic monitoring will resume at the completion of Parcel 3 MEC operations.

5.4 FIELD VARIANCES FROM THE WORK PLAN

Field variances from the GMP occurred during this reporting period. Bedrock monitoring well BGMW08 was purged, but due to poor recharge the well was not sampled. BGMW08 was

1 redeveloped in May 2018; this well is scheduled to be sampled again during the October 2018
2 groundwater monitoring event.

3 Alluvial monitoring wells FW35, MW18S, and MW22S were dry and could not be sampled
4 during this monitoring event. Monitoring well FW35 has been dry since October 2015. MW18S
5 has been dry since installation in 1994, has never been sampled, and is not listed for sampling in
6 the GMP. Water-level elevations have occasionally been reported for MW18S; however, in all
7 instances, the amount of moisture in the bottom cap of the well was insufficient for sampling and
8 the well is considered dry. The depth to water measured in nested well MW18D is approximately
9 5 feet greater than the total depth of MW18S, indicating MW18S is not screened in a saturated
10 interval of the alluvium. Finally, monitoring well MW22S has had limited screen saturation in
11 recent monitoring events and has not been sampled since April 2016. Water levels will be
12 monitored at these locations to determine whether sampling can resume or whether the
13 monitoring wells should be plugged and abandoned.

14 One of the Horiba U-52 water quality meters was not successfully calibrated before it was used
15 on April 24, 2018. The sampler reported the meter failed to calibrate after several attempts. Only
16 the first attempt was recorded on the calibration log (Appendix C). The decision was made to use
17 the meter that day without calibration, because it had been successfully calibrated the previous
18 day, and the sampling team would only be purging full casing volumes from wells on April 24,
19 2018, not low-flow sampling where stabilization of water quality parameters was required.

20 This variance from the GMP is not expected to impact analytical data quality or sample
21 representativeness because the wells were purged according to the methods specified in the
22 GMP. Only the water quality parameter values recorded during purging are expected to be
23 impacted by this variance, not the final sampling values recorded immediately prior to sampling
24 the wells. Wells purged by this sampling team on April 24, 2018 were MW18D, TMW07,
25 TMW22, TMW23, TMW31S, TMW33, TMW39S, TMW41, TMW44, and TMW46.

26 Additionally, upon review at the end of the day, it was determined that the sampler was
27 performing the calibration procedure incorrectly. The sampler was retrained on the calibration
28 procedure specified by the equipment manufacturer, and the Horiba U-52 was successfully
29 calibrated on April 25, 2018 and all subsequent days during the April 2018 event.

30 **5.5 LABORATORY VARIANCES FROM THE WORK PLAN**

31 TestAmerica had analytical discrepancies for multiple samples in this sampling event.

- 32 • Three samples—TMW01, TMW49, and the field duplicate for MW23 (for perchlorate)—
33 were analyzed past holding time. These data were determined to be usable; however, the
34 data were flagged as potentially low-biased data. The concentrations from the April 2018
35 sampling event are consistent with historical detections.
- 36 • Five nitrate samples and four nitrite samples were analyzed outside of holding time. The
37 results were qualified as detected estimated, or non-detected estimated. Samples for
38 TMW10, BGMW03, MW02, and MW22D were resampled. Both results are shown in
39 Table 5-2. The concentrations from the April 2018 sampling event are consistent with
40 historical detections.

41 All analytical and data quality methods and procedures were performed in accordance with the
42 QSM, Version 5.0 (DoD/DoE, 2013).

5.6 NEW FINDINGS

No new findings were identified from monitoring data collected during the monitoring event described in this GPMR. Monitoring data are generally consistent with historical data except as discussed below.

April 2018 concentrations of the explosive HMX increased at TMW40S from 37 J µg/L to 62 µg/L. TMW40S is northeast and downgradient of the TNT Leaching Beds (SWMU 1). The concentration increase may be attributed to leaching of explosive compounds in soil due to seasonal precipitation and water from dust suppression infiltrating the open excavation at the TNT Leaching Beds (SWMU 1). Please note, increases (or decreases) in concentrations between two consecutive sampling events, as described here, does not establish a trend. Explosives concentrations in groundwater will continue to be monitored at FWDA.

April 2018 bis(2-ethylhexyl)phthalate concentration in TMW18 increased from 5.5 J µg/L in October 2017 to 19 µg/L, which is above the screening value of 6 µg/L. The increased detection of bis(2-ethylhexyl)phthalate appears to be anomalous. After pump maintenance in 2014, the detections increased; however, over time the detections appear to have attenuated. There has been no recent pump maintenance since 2014.

The detected concentration of herbicide compound, 2,2-dichloropropionic acid (dalapon) from well BGMW07 is well below the screening value and is potentially the result of airborne contamination of the sample volume by fugitive dust during collection. Therefore, the detection does not represent actual contaminant presence due to historical site activities. Samples from BGMW07 will be analyzed for herbicides for the next two sampling events to confirm.

Dissolved metals including aluminum, arsenic, beryllium, chromium, iron, lead, manganese, and vanadium were detected above the screening values in newly installed bedrock monitoring well BGMW09. After a review of drilling, well development, sampling, and laboratory procedures, the results were determined to be representative of groundwater and not cross contamination. Dissolved metals will be sampled at future sampling events to confirm concentrations.

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6.0 SUMMARY

Two groundwater elevation surveys and one groundwater sampling event were performed during the reporting period from January 2018 through June 2018. Groundwater elevation surveys were conducted in January 2018 and April 2018. The groundwater sampling event for the reporting period was performed in April 2018. Four bedrock background monitoring wells were also installed in March 2018.

Shallow groundwater in the northern area of FWDA is present in both the unconsolidated alluvium and bedrock. The groundwater flow direction in the alluvium is from potentiometric highs in the east, north, and south toward a potentiometric low west of the Administration Area. Groundwater flow direction has not been fully characterized in the bedrock aquifer beneath the Workshop Area. Groundwater flow within the bedrock appears to flow generally to the west in the Workshop Area. The groundwater elevation in the bedrock groundwater unit is slightly higher than in the alluvial groundwater unit and exists under hydraulically confined conditions under most of the northern area. The confining unit for the bedrock aquifer is missing near monitoring wells TMW30 and TMW48.

Nitrate, nitrite, perchlorate, explosives, one VOC, and metals were detected in groundwater samples at concentrations above the selected groundwater screening values. Six groundwater contaminant plumes have been identified within the Administration Area and the Workshop Area of FWDA.

- Two nitrate plumes, one in the alluvial groundwater unit and one in the bedrock groundwater unit (Workshop Area and Administration Area)
- Two perchlorate plumes, one in the alluvial groundwater unit and one in the bedrock groundwater unit (Workshop Area)
- One explosives plume in the alluvial groundwater unit (Workshop Area)
- One 1,2-DCA plume in the alluvial groundwater unit (Administration Area).

The highest concentrations of nitrate contamination occur in alluvial groundwater units of the northern area. The nitrate plume in the alluvial groundwater unit appears to originate from the TNT Leaching Beds (SWMU 1) in the Workshop Area and extends downgradient to the Administration Area. The extent of the alluvial nitrate plume is not defined to the north or west of the Administration Area. The bedrock nitrate plume is also present near the TNT Leaching Beds (SWMU 1) and downgradient of the Building 528 Complex (SWMU 27), but concentrations in bedrock are roughly an order of magnitude lower than alluvial concentrations. The collocated perchlorate and nitrate plumes appear to have a common source at the Building 528 Complex (SWMU 27).

The highest perchlorate concentrations were detected in groundwater samples from the bedrock groundwater unit in the Workshop Area. The boundary of the bedrock perchlorate plume has not yet been defined. The alluvial perchlorate plume is in the same vicinity as the bedrock plume. Historical releases of perchlorate-containing materials at the Building 528 Complex (SWMU 27) are believed to be the common source of both plumes in the alluvial and bedrock groundwater units.

1 RDX is the principal explosive compound of interest. This compound is consistently detected at
2 concentrations above the RSL in the Workshop Area and eastern Administration Area. The
3 explosives plume in the alluvial groundwater unit appears to originate from the TNT Leaching
4 Beds (SWMU 1) in the Workshop Area. Groundwater concentrations of explosive compounds
5 (primarily RDX) attenuate to levels below the groundwater screening values within 2,500 feet
6 downgradient of the TNT Leaching Beds (SWMU 1).

7 The VOC 1,2-DCA was detected in groundwater samples at concentrations above groundwater
8 screening values. 1,2-DCA was historically used as a gasoline additive and degreasing solvent.
9 The 1,2-DCA plume in the alluvial groundwater unit is limited to a group of wells near a former
10 fueling facility (Building 6 Gas Station, SWMU 45) in the Administration Area. No other VOCs
11 were detected above selected groundwater screening values.

12 One SVOC was detected at concentrations exceeding selected groundwater screening values.
13 The compound bis(2-ethylhexyl)phthalate was detected at a concentration of 19 µg/L, exceeding
14 the screening value of 6.0 µg/L. The SVOC 2,4-dinitrophenol was detected at concentrations
15 below the screening value. This detection is associated with the RDX plume and is attributed to
16 degrading explosives compounds.

17 Dissolved aluminum, arsenic, iron, manganese, and selenium were detected above available
18 groundwater screening values in more than one groundwater sample. Background groundwater
19 concentrations have not been accepted for FWDA, so it cannot be clearly demonstrated whether
20 the detected concentrations are a result of natural conditions or anthropogenic sources of
21 contamination.

22 Groundwater contaminant plumes at FWDA appear to be limited to the northern area; however,
23 historic detections have been recorded within the OB/OD Area in the southern portion of
24 FWDA. Additional delineation and investigation for groundwater plumes at FWDA are planned.
25 The *Final Groundwater Supplemental RCRA Facility Investigation Work Plan, Revision 4, Fort*
26 *Wingate Depot Activity, McKinley County, New Mexico* (Sundance, 2018a) was approved by
27 NMED in spring 2018. This Supplemental RFI Work Plan proposes locations for additional
28 groundwater monitoring wells necessary to further delineate the alluvial and bedrock
29 groundwater contaminant plumes, delineate bedrock groundwater flow direction, replace
30 monitoring wells known to be dry, and provide sufficient data to conduct a groundwater
31 background evaluation (Sundance, 2018).

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FIGURES

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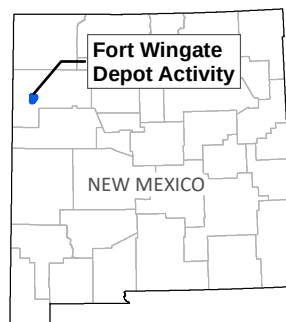
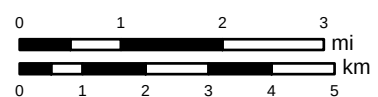


FIGURE 1-1 LOCATION MAP

Groundwater Periodic Monitoring
Report, January-June 2018
*Fort Wingate Depot Activity,
McKinley County, New Mexico*



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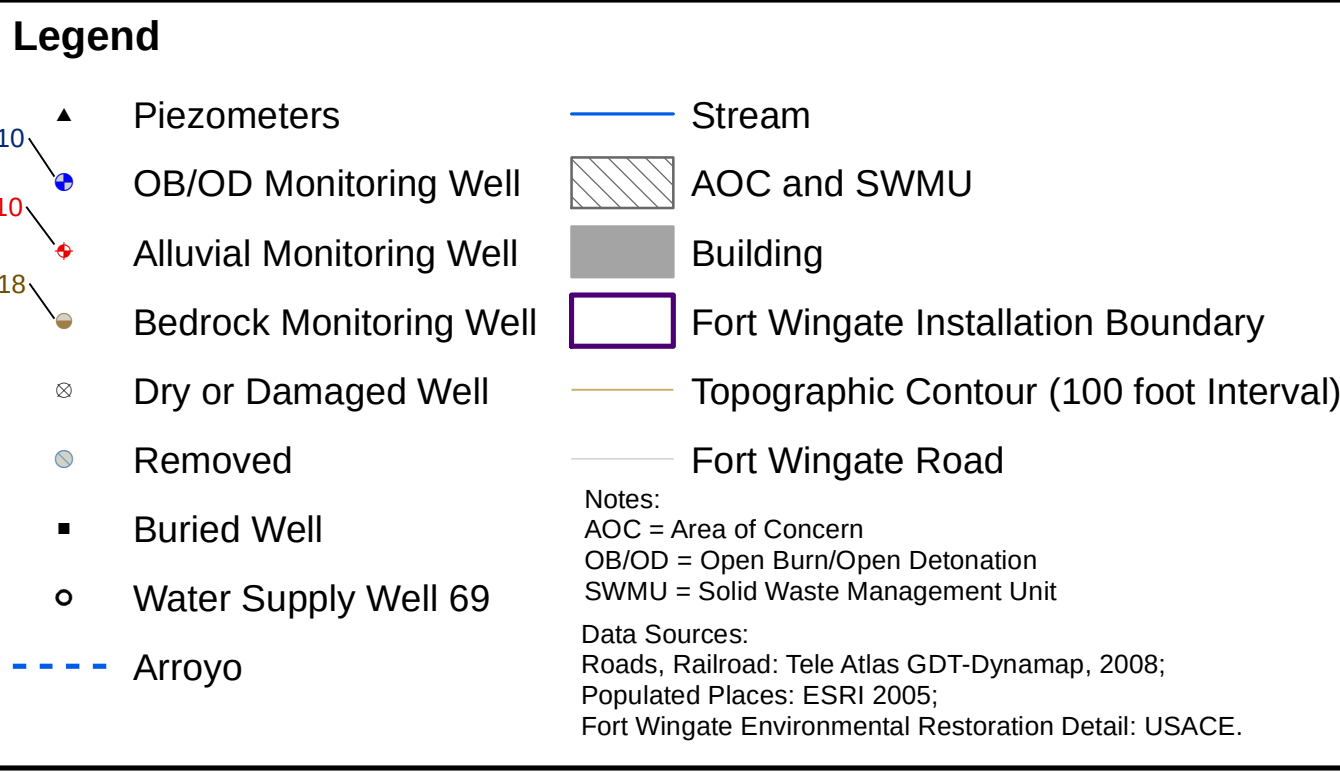
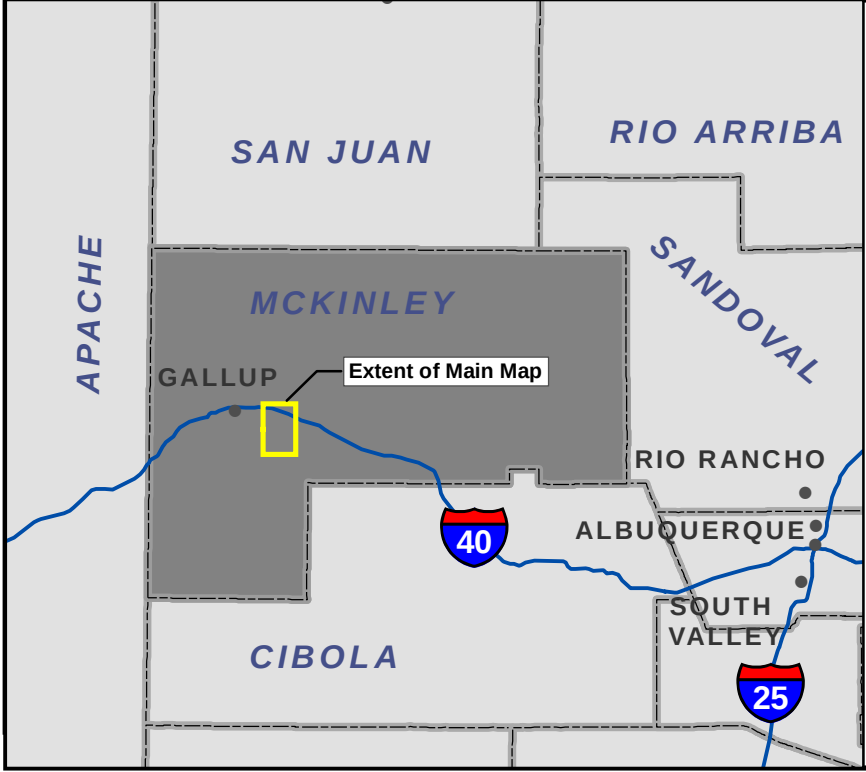
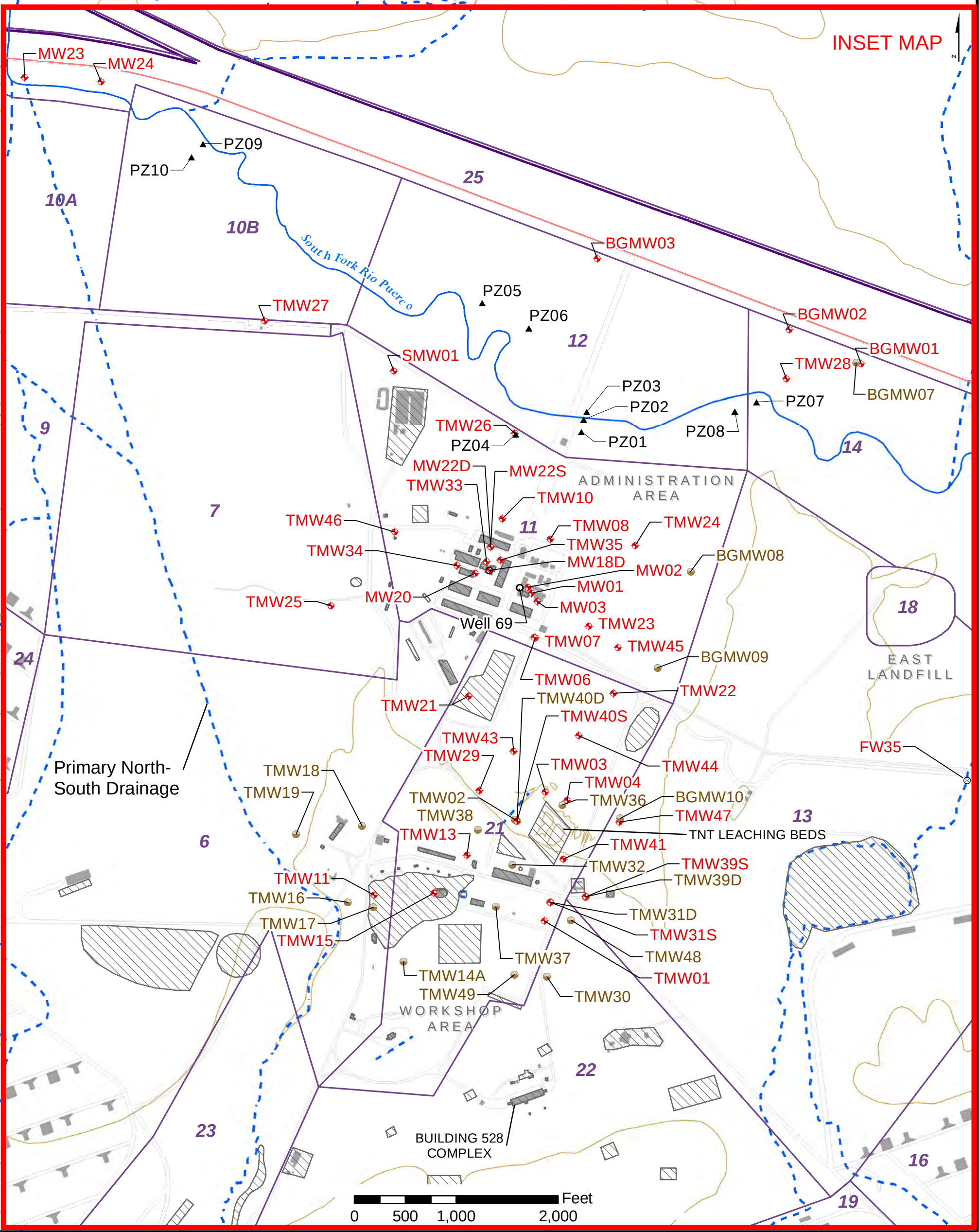
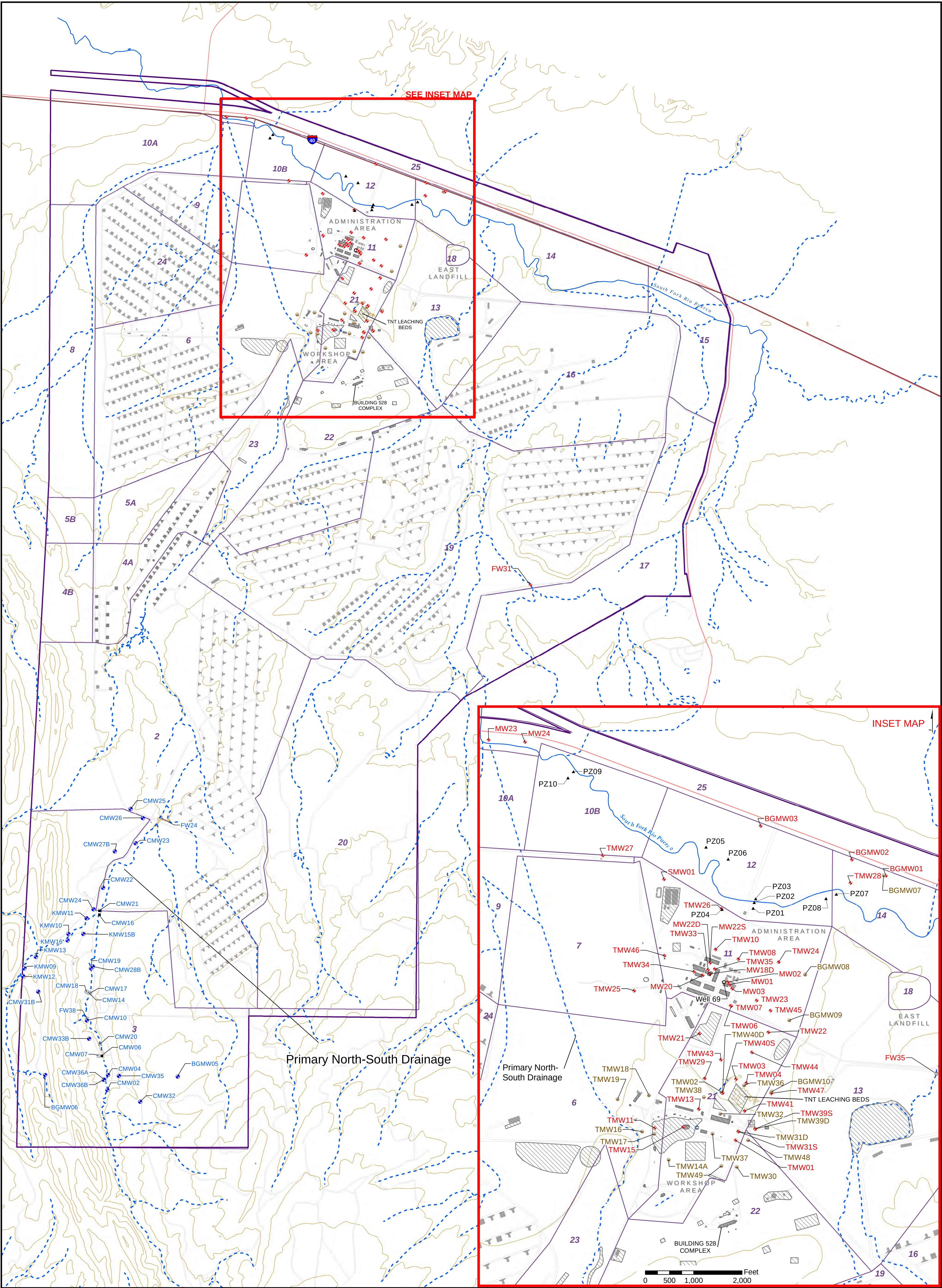
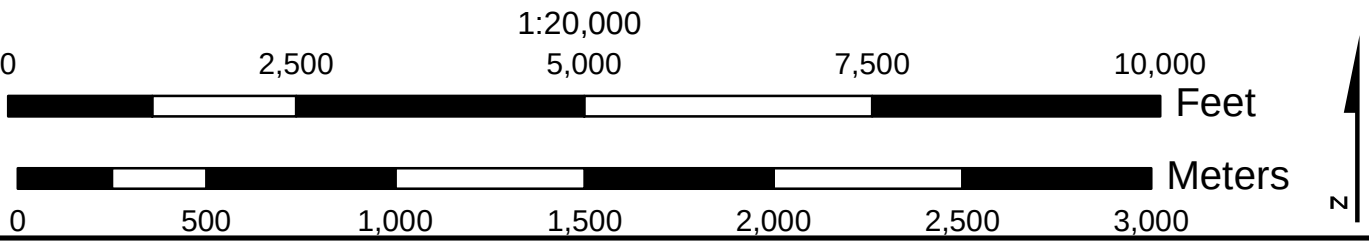
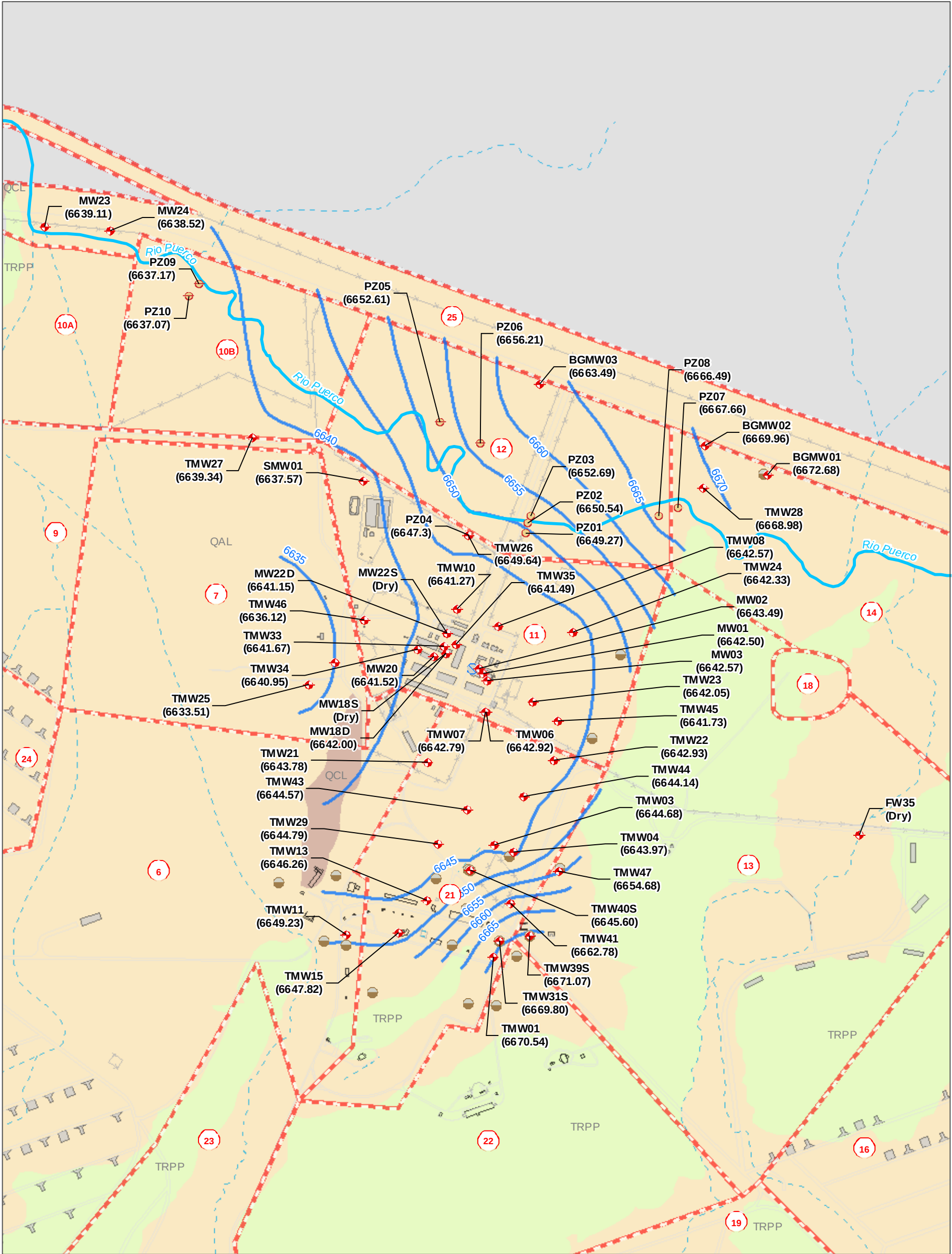


FIGURE 1-2
Well Location Map
Groundwater Periodic Monitoring
Report, January-June 2018
*Fort Wingate Depot Activity,
McKinley County, New Mexico*

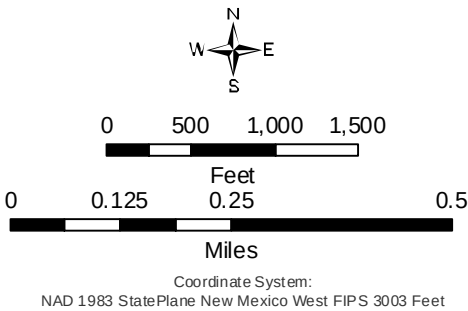


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Legend

- Alluvial Well
- Bedrock Well
- Piezometer
- Well 69
- Parcel Boundary
- Existing Structure
- Former Structure
- Road
- Arroyo
- Rio Puerco
- Groundwater Contour, 5-foot intervals
- Fence
- QAL-Quaternary Alluvial Deposits
- QCL-Quaternary Gravel
- TRPP-Petrified Forest Formation



Notes

All elevations are in feet above mean sea level.

Figure 4-1

Northern Area Alluvial
Groundwater Contour Map
January 2018

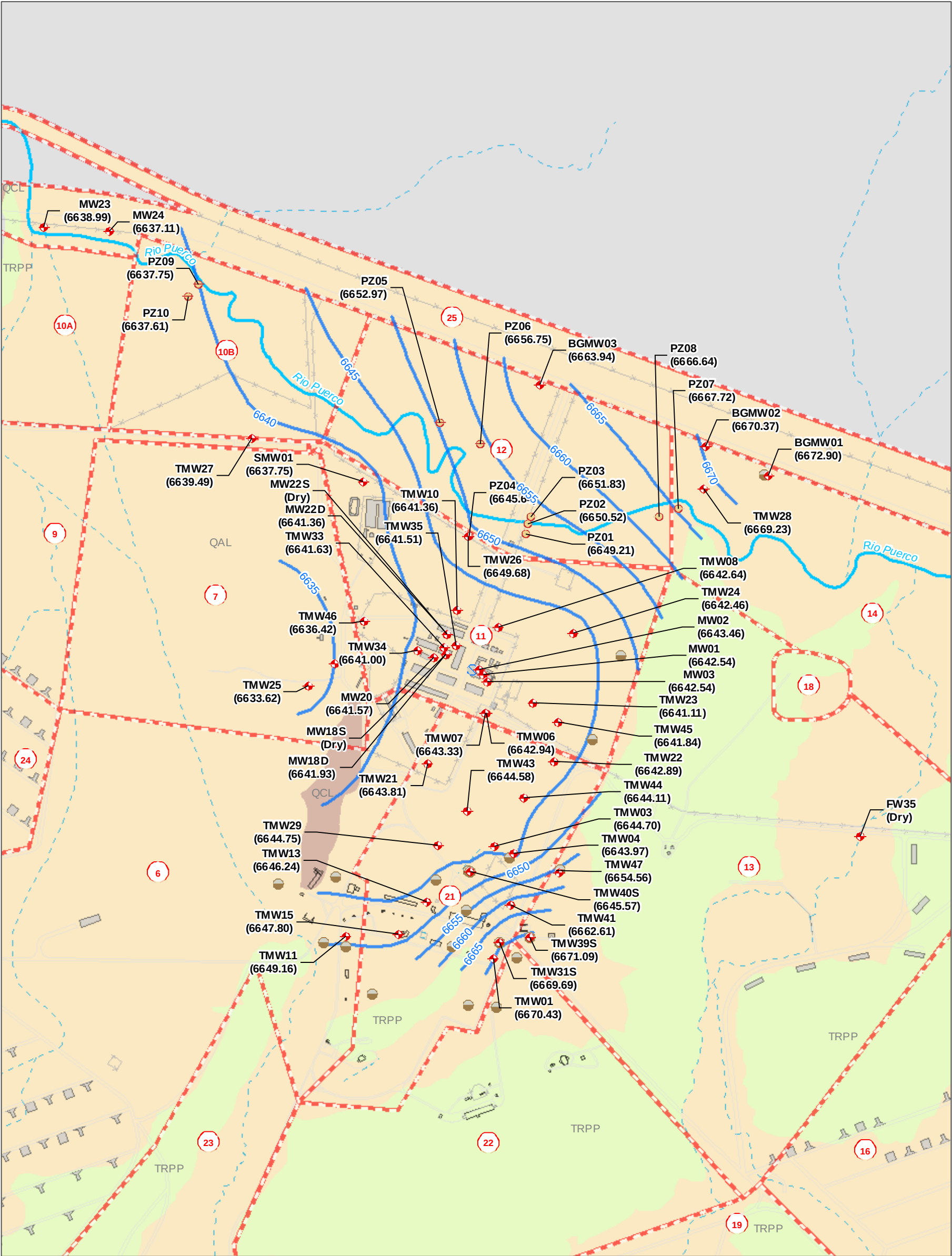
Groundwater Periodic Monitoring
Report, January-June 2018

Fort Wingate Depot Activity
McKinley County, New Mexico



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Legend

- Alluvial Well
- Bedrock Well
- Piezometer
- Well 69
- Parcel Boundary
- Existing Structure
- Former Structure
- Road
- Arroyo
- Rio Puerco
- Groundwater Contour, 5-foot intervals
- Fence
- QAL-Quaternary Alluvial Deposits
- QCL-Quaternary Gravel
- TRPP-Petrified Forest Formation

Notes

All elevations are in feet above mean sea level.

Figure 4-2

Northern Area Alluvial
Groundwater Contour Map
April 2018

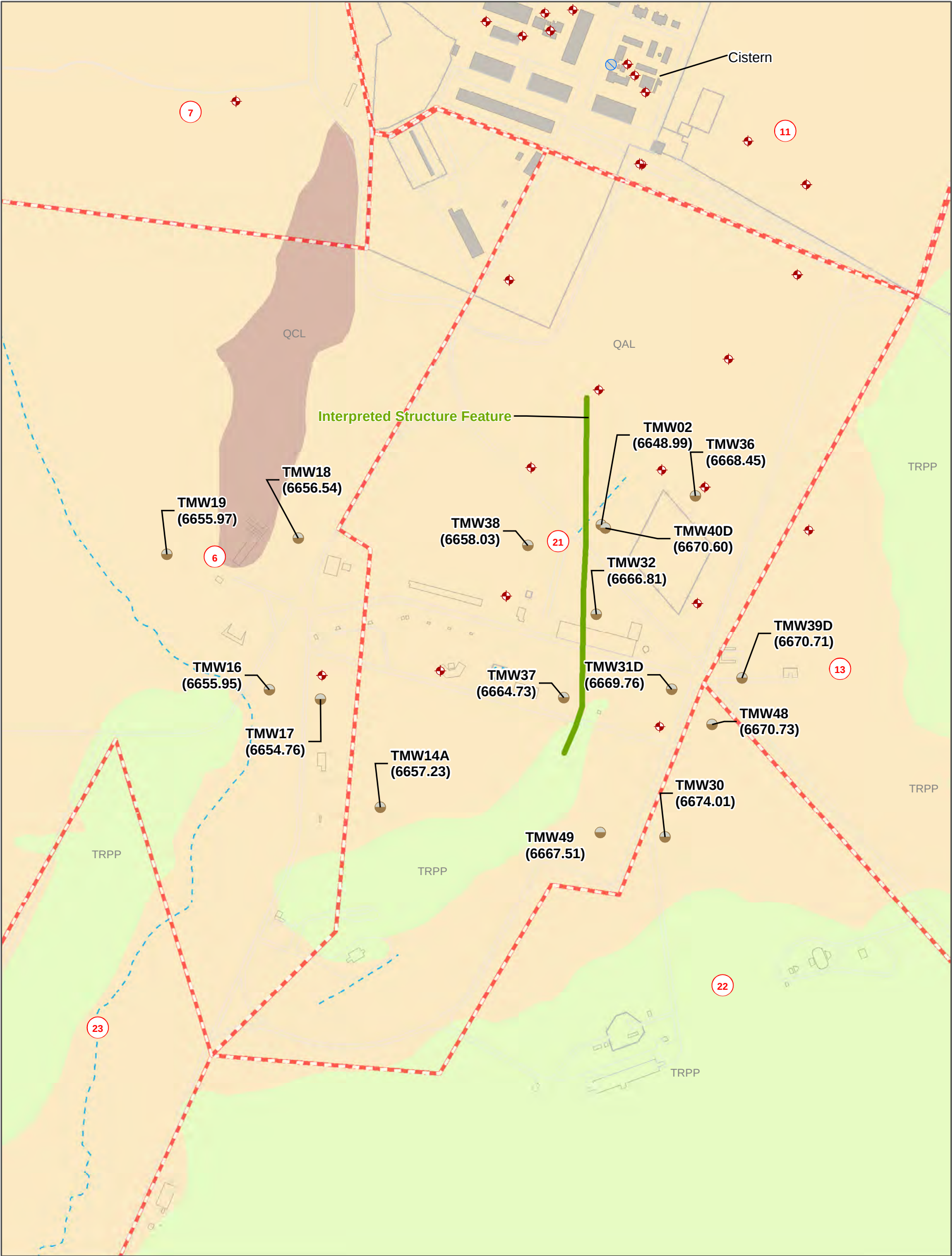
Groundwater Periodic Monitoring
Report, January-June 2018

Fort Wingate Depot Activity
McKinley County, New Mexico



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Legend

- Alluvial Well
- Bedrock Well
- Well 69
- Parcel Boundary
- Existing Structure
- Former Structure
- Road
- Arroyo
- Fence
- QAL-Quaternary Alluvial Deposits
- QCL-Quaternary Gravel
- TRPP-Petrified Forest Formation

Notes

All elevations are in feet above mean sea level.

Groundwater elevation contours not drawn due to lack of sufficient elevation data. Only elevations at each individual well are provided.

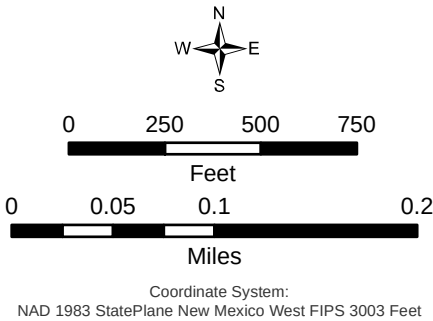


Figure 4-3

Northern Area Bedrock
Groundwater Elevation Map
January 2018

Groundwater Periodic Monitoring
Report, January-June 2018

Fort Wingate Depot Activity
McKinley County, New Mexico



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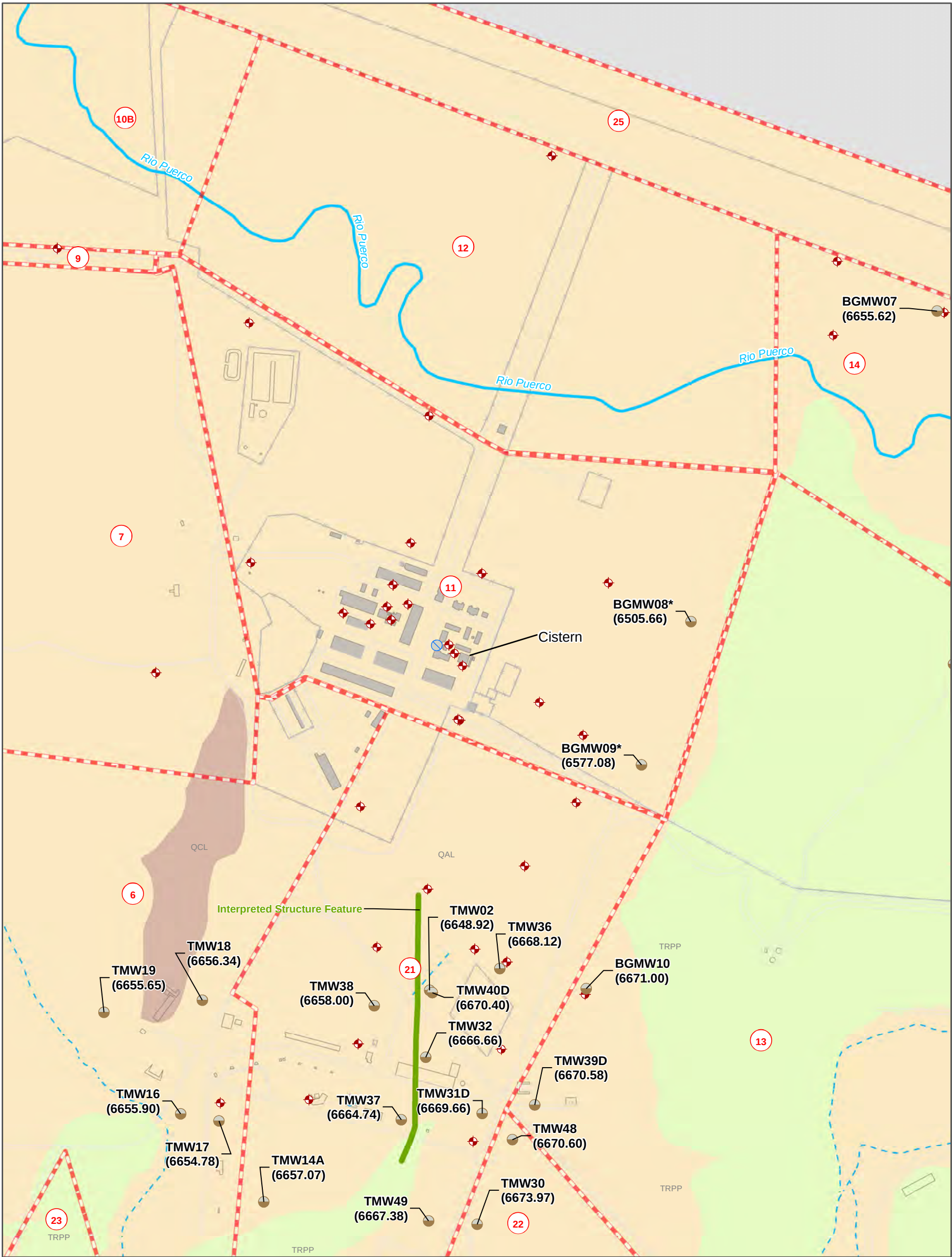


Figure 4-4

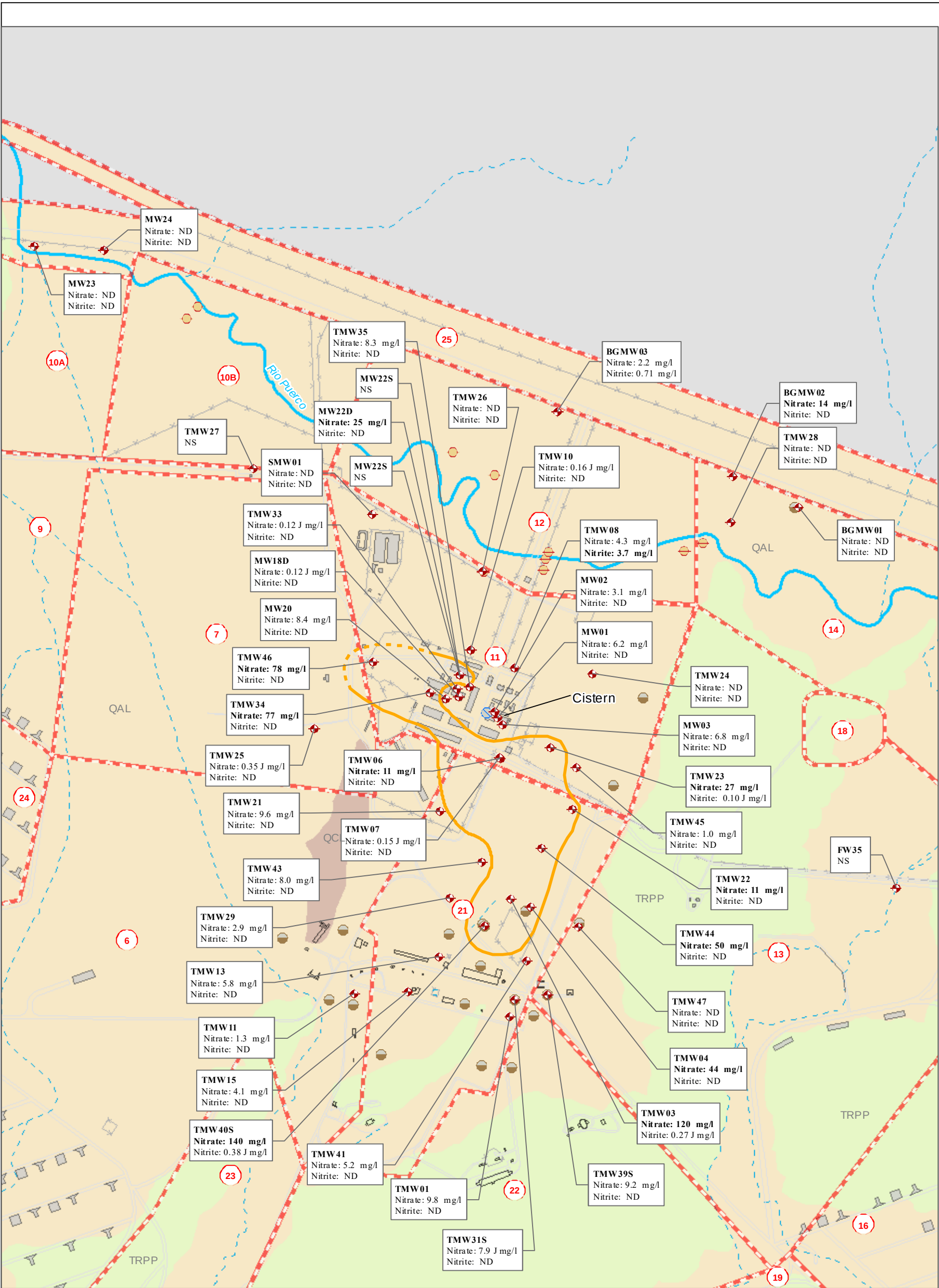
Northern Area Bedrock
Groundwater Elevation Map
April 2018

Groundwater Periodic Monitoring
Report, January-June 2018

Fort Wingate Depot Activity
McKinley County, New Mexico



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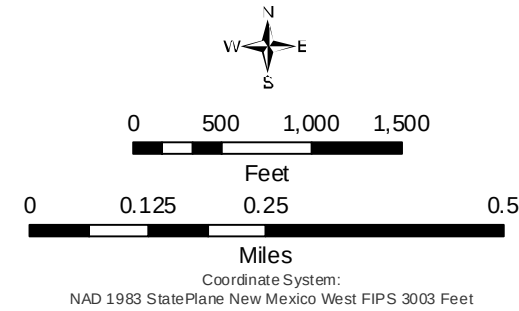


Legend

- Alluvial Well
- Bedrock Well
- Piezometer
- Well 69
- Parcel Number
- Parcel Boundary
- Existing Structure
- Former Structure
- Road
- Arroyo
- Rio Puerco
- Fence
- Nitrate (10 mg/L)
- Inferred Plume Boundary
- QAL-Quaternary Alluvial Deposits
- QCL-Quaternary Gravel
- TRPP-Petrified Forest Formation

Notes

> = greater than
mg/L = milligram per liter
J = The analyte was positively identified by laboratory;
the reported concentration is estimated.
ND = not detected
NS = not sampled



BOLD values indicate;
Nitrate detections > 10 mg/L
Nitrite detections > 1 mg/L

FW31, located in Parcel 19, had no detections for Nitrate and Nitrite. FW31 is not shown on this map

Figure 5-1

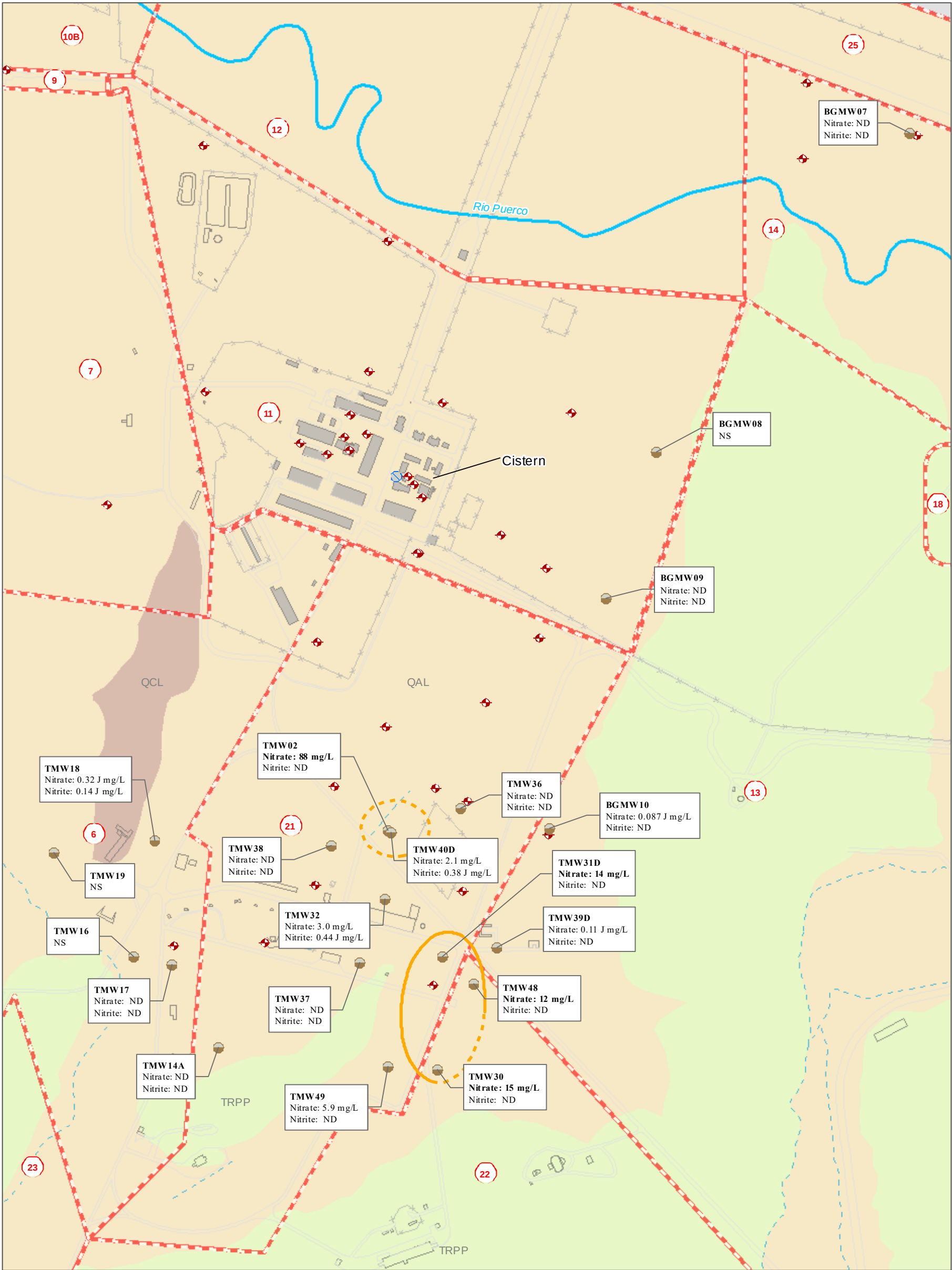
Northern Area Nitrate and Nitrite
Concentrations in Alluvial
Groundwater, April 2018

Groundwater Periodic Monitoring
Report, January-June 2018

Fort Wingate Depot Activity
McKinley County, New Mexico



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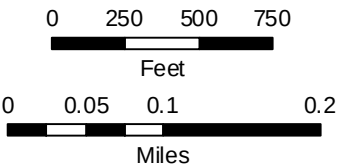


Legend

- Alluvial Well
- Bedrock Well
- Well 69
- Parcel Number
- Parcel Boundary
- Existing Structure
- Former Structure
- Road
- Arroyo
- Rio Puerco
- Fence
- Nitrate (10 mg/L)
- Inferred Plume Boundary
- QAL-Quaternary Alluvial Deposits
- QCL-Quaternary Gravel
- TRPP-Petrified Forest Formation

Notes

> = greater than
mg/L = milligram per liter
J = The analyte was positively identified by laboratory;
the reported concentration is estimated.
ND = not detected
BOLD values indicate;
Nitrate detections > 10 mg/L



Coordinate System:
NAD 1983 StatePlane New Mexico West FIPS 3003 Feet

Figure 5-2

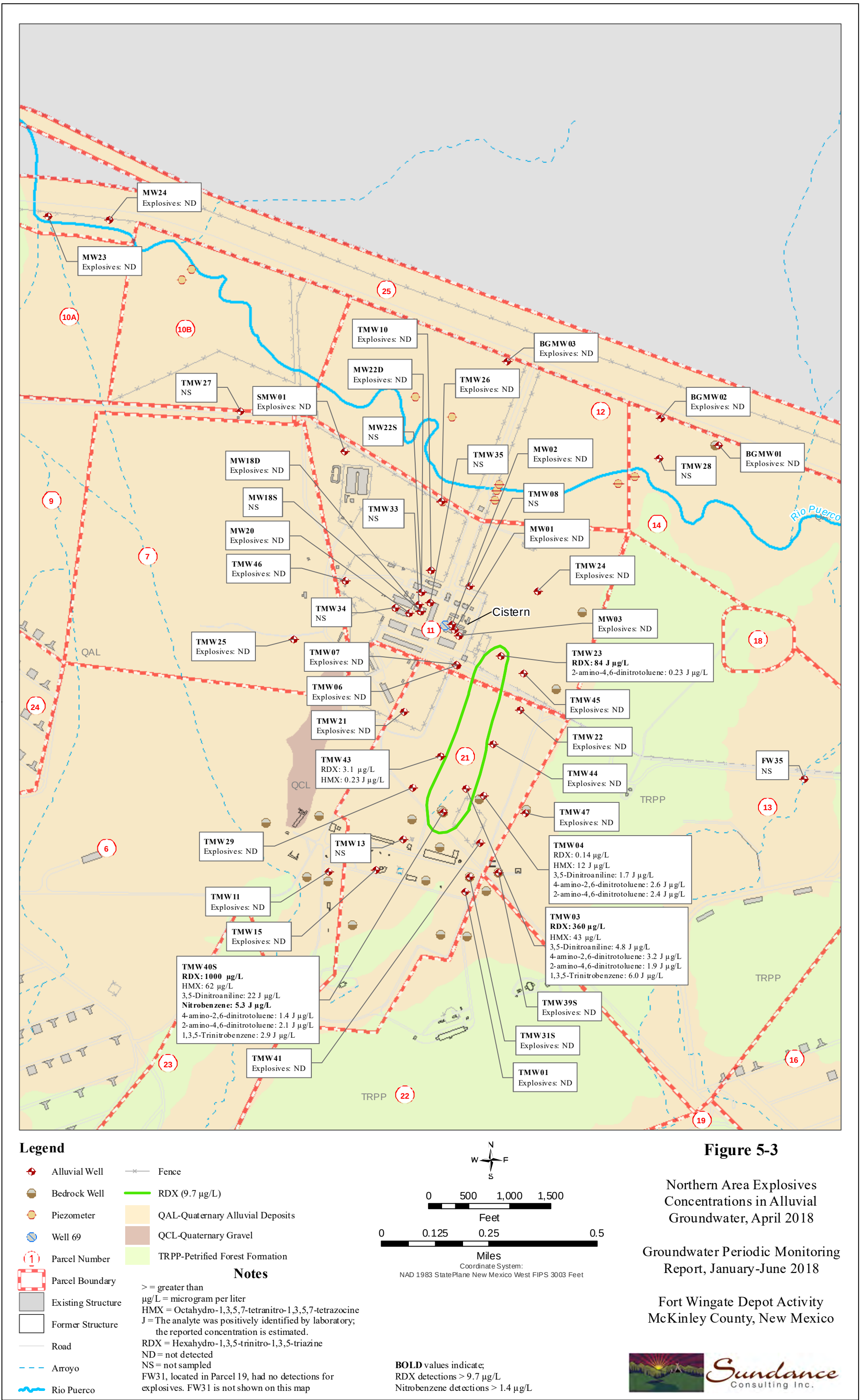
Northern Area Nitrate and Nitrite
Concentrations in Bedrock
Groundwater, April 2018

Groundwater Periodic Monitoring
Report, January-June 2018

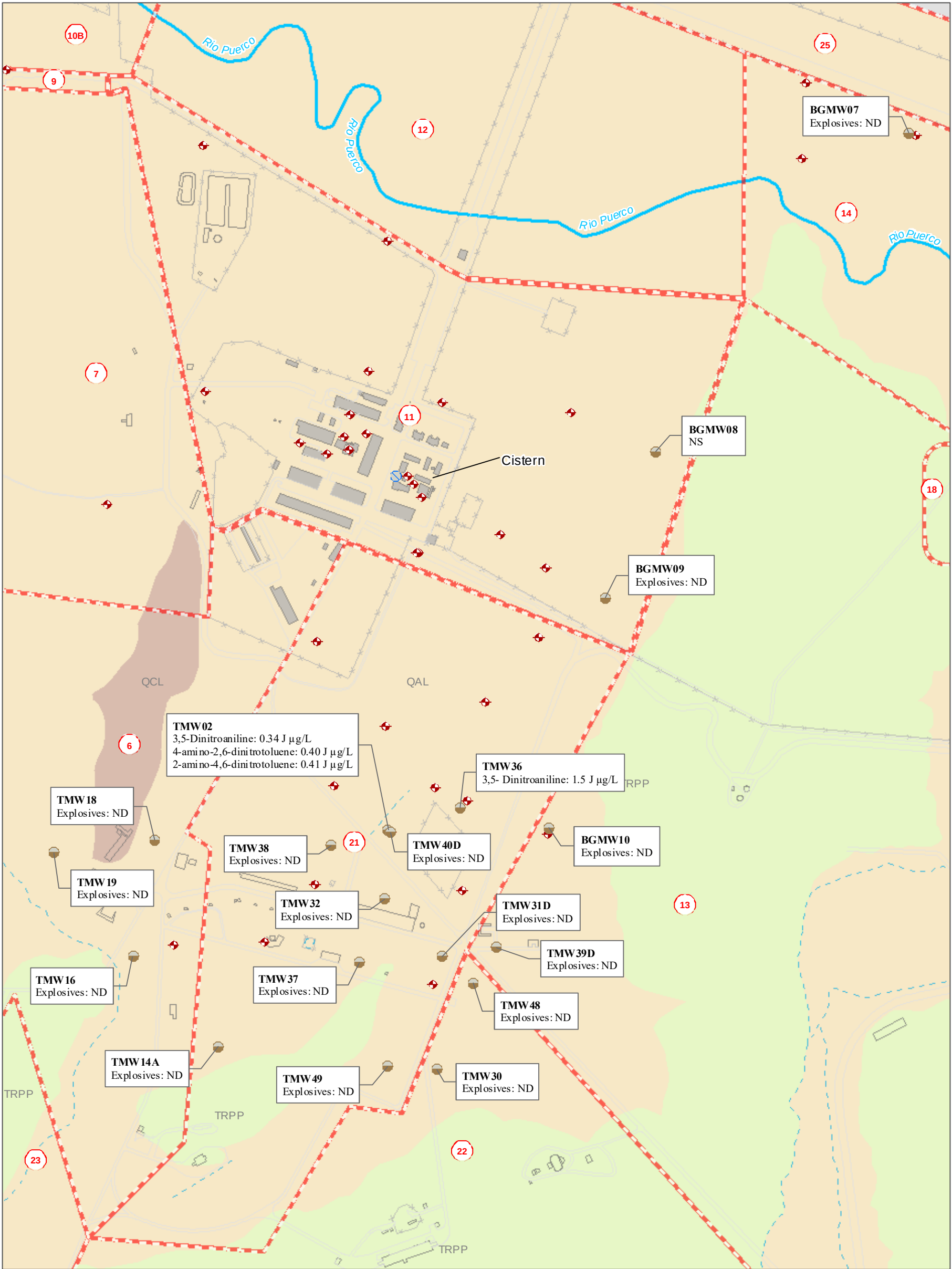
Fort Wingate Depot Activity
McKinley County, New Mexico



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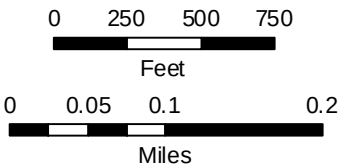


Legend

- Alluvial Well
- Bedrock Well
- Well 69
- Parcel Number
- Parcel Boundary
- Existing Structure
- Former Structure
- Road
- Arroyo
- Rio Puerco
- Fence
- QAL-Quaternary Alluvial Deposits
- QCL-Quaternary Gravel
- TRPP-Petrified Forest Formation

Notes

> = greater than
 µg/L = microgram per liter
 HMX = Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
 J = The analyte was positively identified by laboratory;
 the reported concentration is estimated.
 RDX = Hexahydro-1,3,5-trinitro-1,3,5-triazine
 ND = not detected
 NS = not sampled



Coordinate System:
 NAD 1983 StatePlane New Mexico West FIPS 3003 Feet

Figure 5-4

Northern Area Explosives
 Concentrations in Bedrock
 Groundwater, April 2018

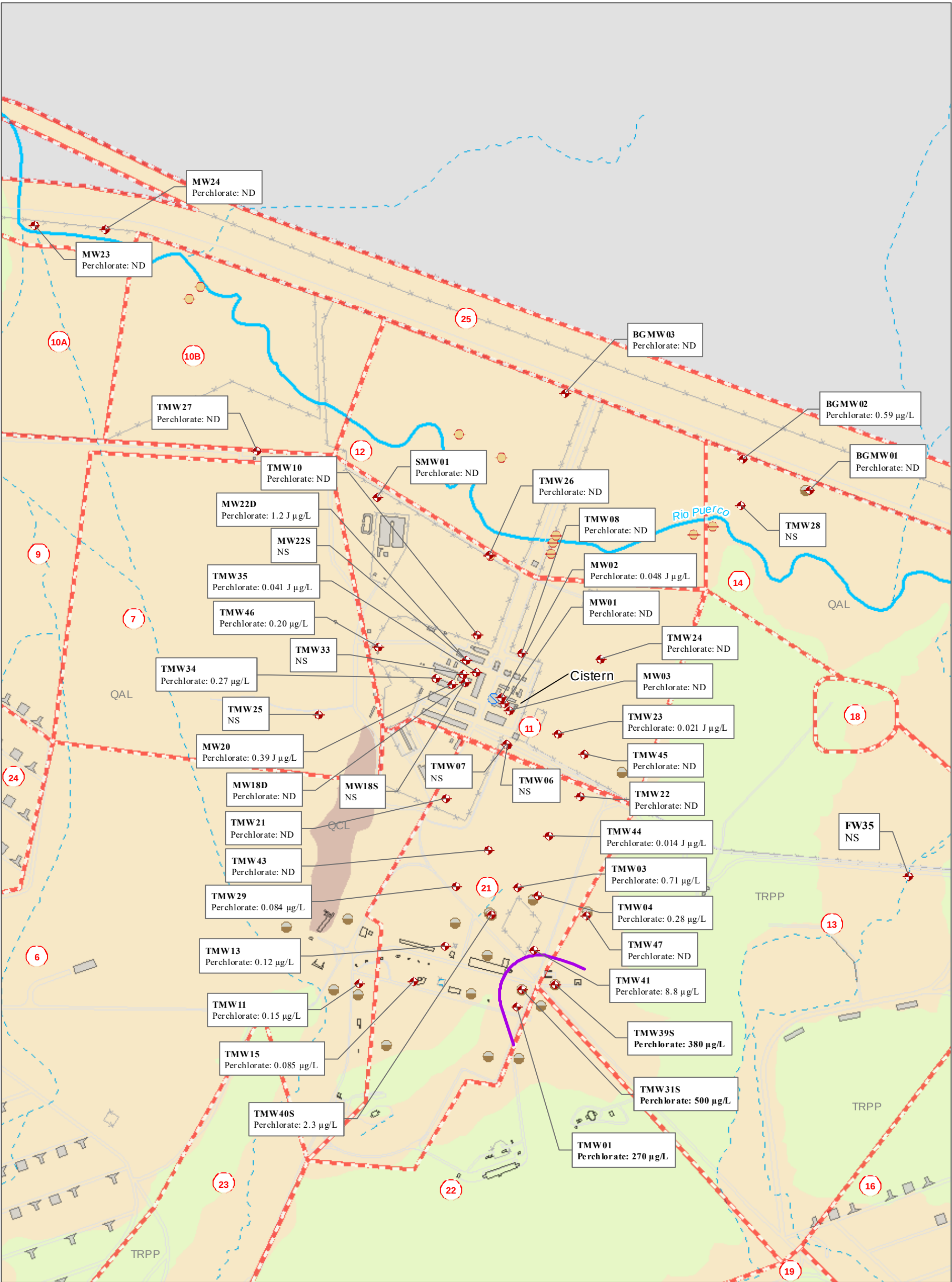
Groundwater Periodic Monitoring
 Report, January-June 2018

Fort Wingate Depot Activity
 McKinley County, New Mexico



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Legend

- Alluvial Well
- Bedrock Well
- Piezometer
- Well 69
- Parcel Number
- Parcel Boundary
- Existing Structure
- Former Structure
- Road
- Arroyo
- Rio Puerco
- Fence
- Perchlorate (15 µg/L)
- QAL-Quaternary Alluvial Deposits
- QCL-Quaternary Gravel
- TRPP-Petrified Forest Formation

Notes

> = greater than
µg/L = microgram per liter
J = The analyte was positively identified by laboratory;
the reported concentration is estimated.
ND = not detected
NS = not sampled
BOLD values indicate;
Perchlorate detections > 15 µg/L

FW31, located in Parcel 19,
was not sampled for perchlorate.
FW31 is not shown on this map.

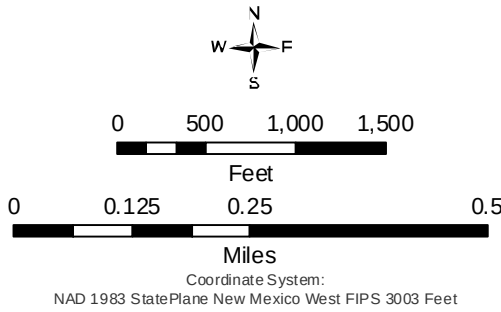


Figure 5-5

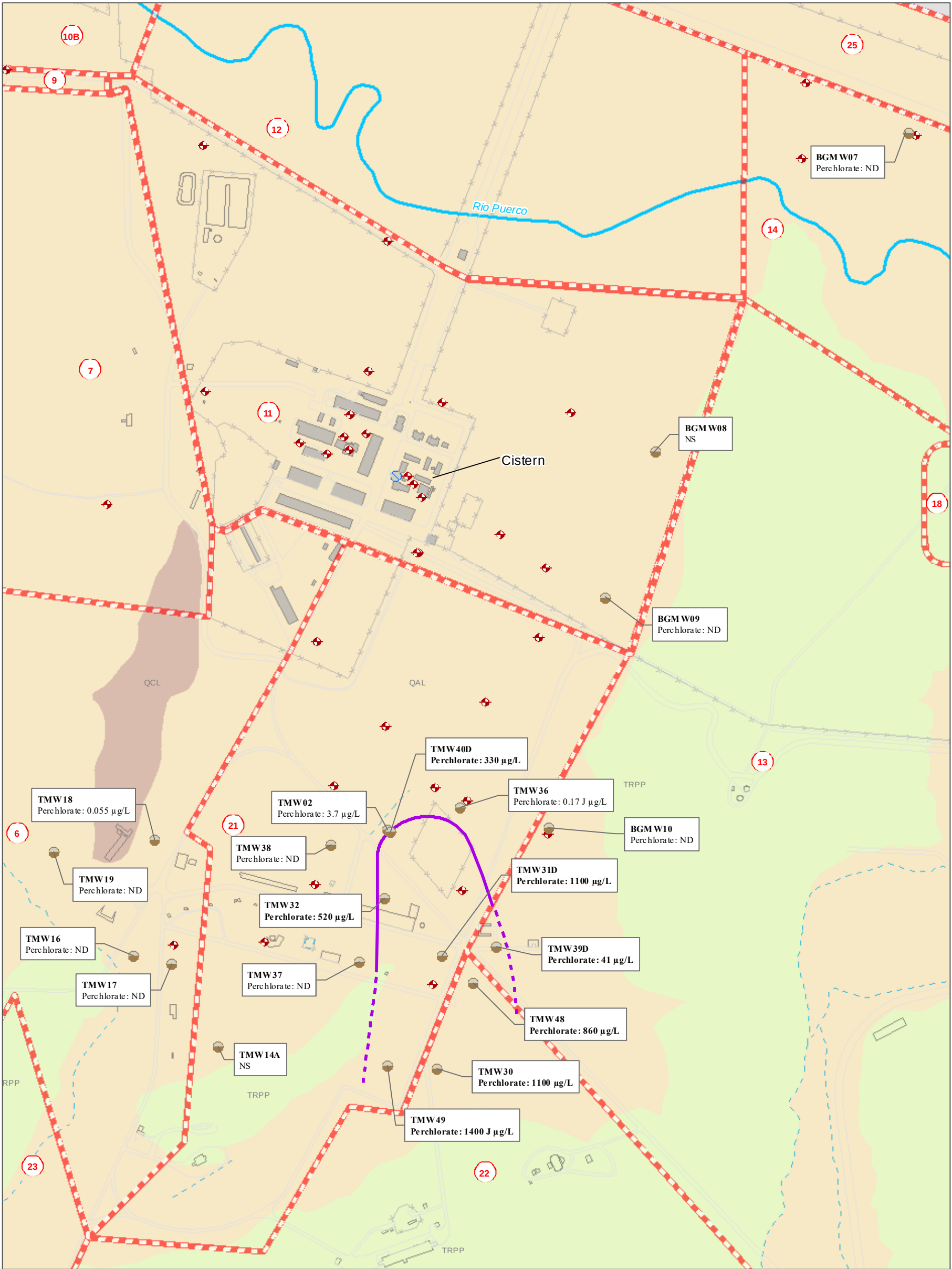
Northern Area Perchlorate
Concentrations in Alluvial
Groundwater, April 2018

Groundwater Periodic Monitoring
Report, January-June 2018

Fort Wingate Depot Activity
McKinley County, New Mexico



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Legend

- Alluvial Well
- Bedrock Well
- Well 69
- Parcel Number
- Parcel Boundary
- Existing Structure
- Former Structure
- Road
- Arroyo
- Rio Puerco
- Fence
- Perchlorate (15 µg/L)
- Inferred Plume Boundary
- QAL-Quaternary Alluvial Deposits
- QCL-Quaternary Gravel
- TRPP-Petrified Forest Formation

Notes

> = greater than
µg/L = microgram per liter
J = The analyte was positively identified by laboratory;
the reported concentration is estimated.
ND = not detected
NS = not sampled
BOLD values indicate;
Perchlorate detections > 15 µg/L



0 250 500 750
Feet

0 0.05 0.1 0.2
Miles

Coordinate System:
NAD 1983 StatePlane New Mexico West FIPS 3003 Feet

Figure 5-6

Northern Area Perchlorate
Concentrations in Bedrock
Groundwater, April 2018

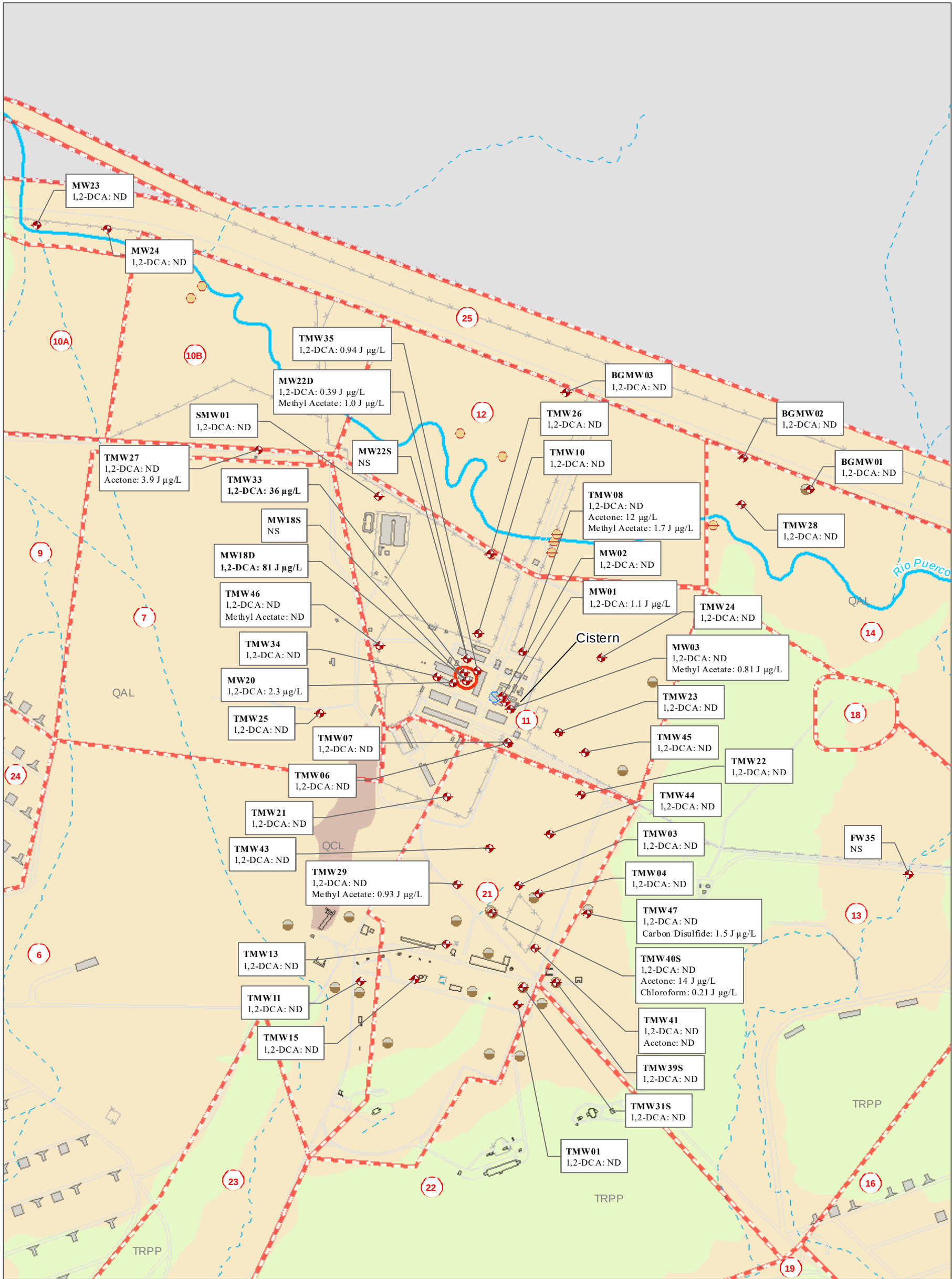
Groundwater Periodic Monitoring
Report, January-June 2018

Fort Wingate Depot Activity
McKinley County, New Mexico



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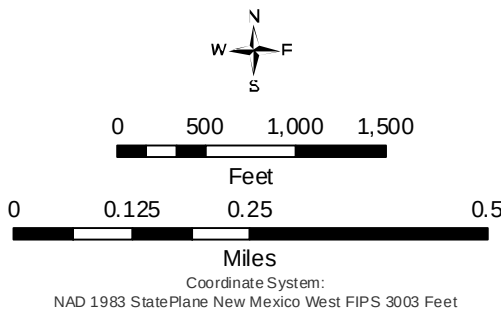


Legend

- Alluvial Well
- Bedrock Well
- Piezometer
- Parcel Number
- Well 69
- Parcel Boundary
- Existing Structure
- Former Structure
- Road
- Arroyo
- Rio Puerco
- Fence
- 1,2-DCA (5 µg/L)
- QAL-Quaternary Alluvial Deposits
- QCL-Quaternary Gravel
- TRPP-Petrified Forest Formation

Notes

> = greater than
µg/L = microgram per liter
1,2-DCA = 1,2-dichloroethene
J = The analyte was positively identified by laboratory;
the reported concentration is estimated.
ND = not detected
NS = not sampled
VOC = volatile organic compound
FW31, located in Parcel 19, had no detections
for VOCs. FW31 is not shown on this map



Coordinate System:
NAD 1983 StatePlane New Mexico West FIPS 3003 Feet

Figure 5-7

Northern Area VOC
Concentrations in Alluvial
Groundwater, April 2018

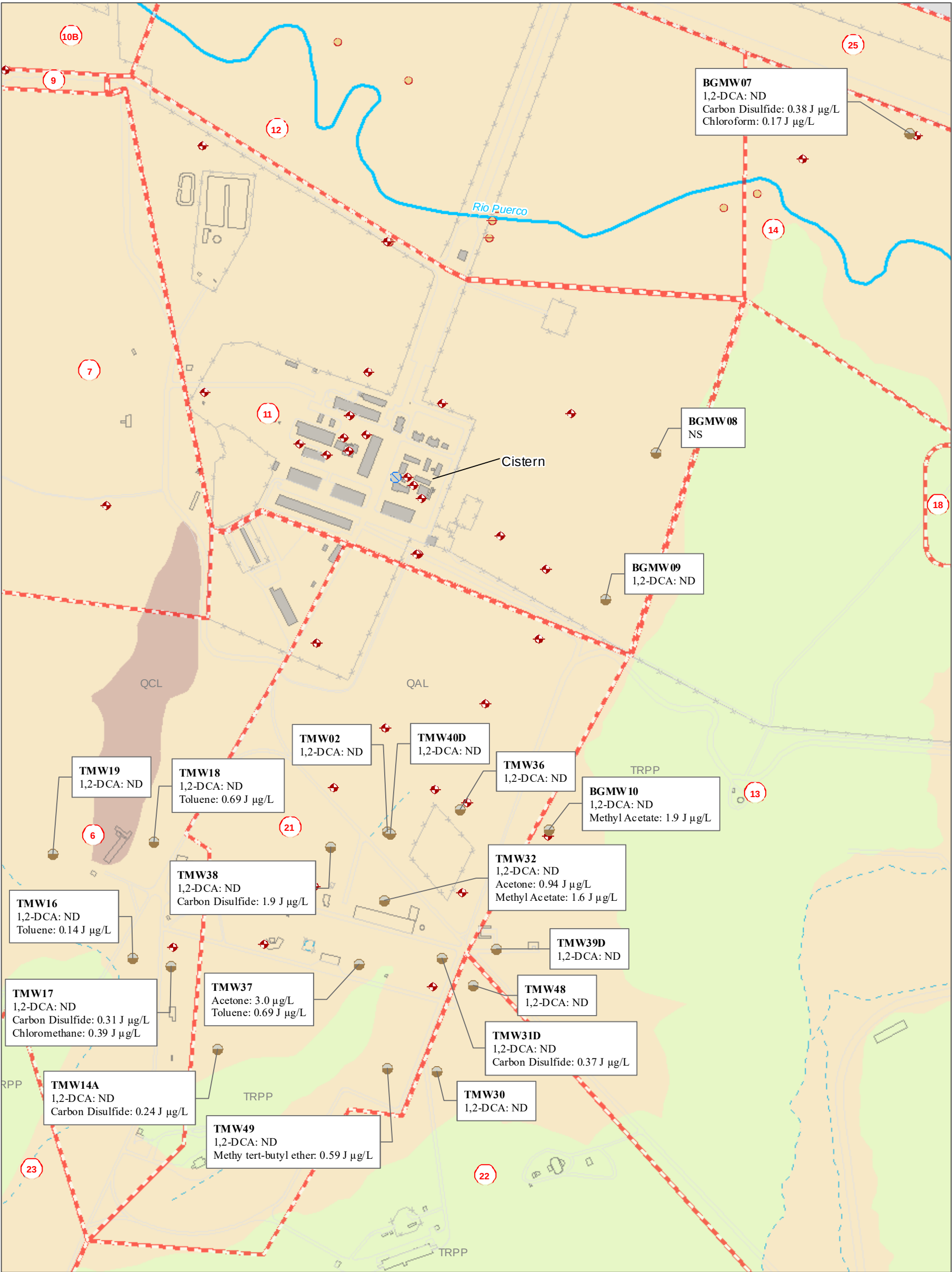
Groundwater Periodic Monitoring
Report, January-June 2018

Fort Wingate Depot Activity
McKinley County, New Mexico



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Consulting Inc.

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Legend

- Alluvial Well
- Bedrock Well
- Piezometer
- Well 69
- Parcel Number
- Parcel Boundary
- Existing Structure
- Former Structure
- Road
- Arroyo
- Rio Puerco
- Fence
- QAL-Quaternary Alluvial Deposits
- QCL-Quaternary Gravel
- TRPP-Petrified Forest Formation

Notes

> = greater than
µg/L = microgram per liter
1,2-DCA = 1,2-dichloroethene
J = The analyte was positively identified by laboratory;
the reported concentration is estimated.
ND = not detected
VOC = volatile organic compound



0 250 500 750
Feet

0 0.05 0.1 0.2
Miles

Coordinate System:
NAD 1983 StatePlane New Mexico West FIPS 3003 Feet

Figure 5-8

Northern Area VOC
Concentrations in Bedrock
Groundwater, April 2018

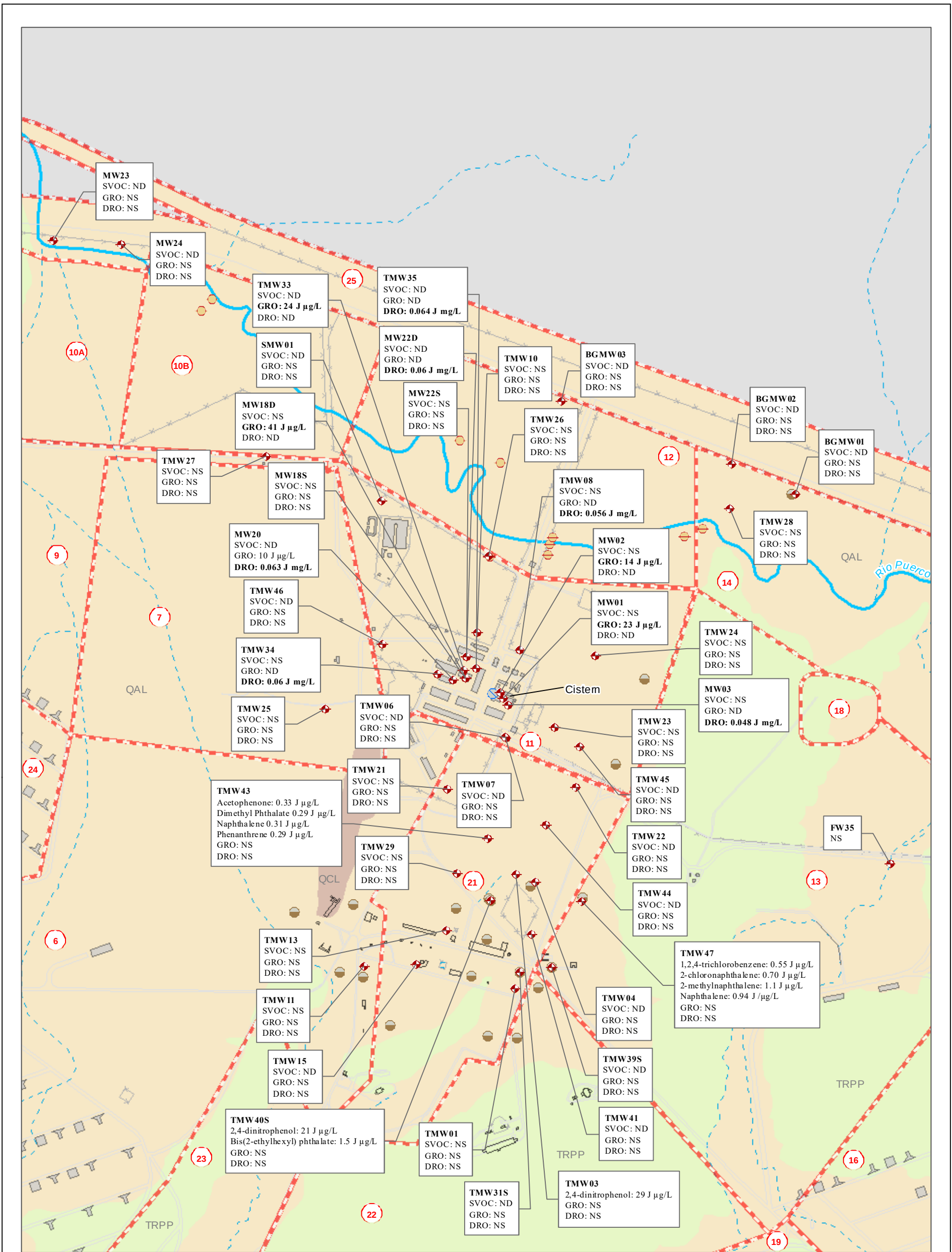
Groundwater Periodic Monitoring
Report, January-June 2018

Fort Wingate Depot Activity
McKinley County, New Mexico

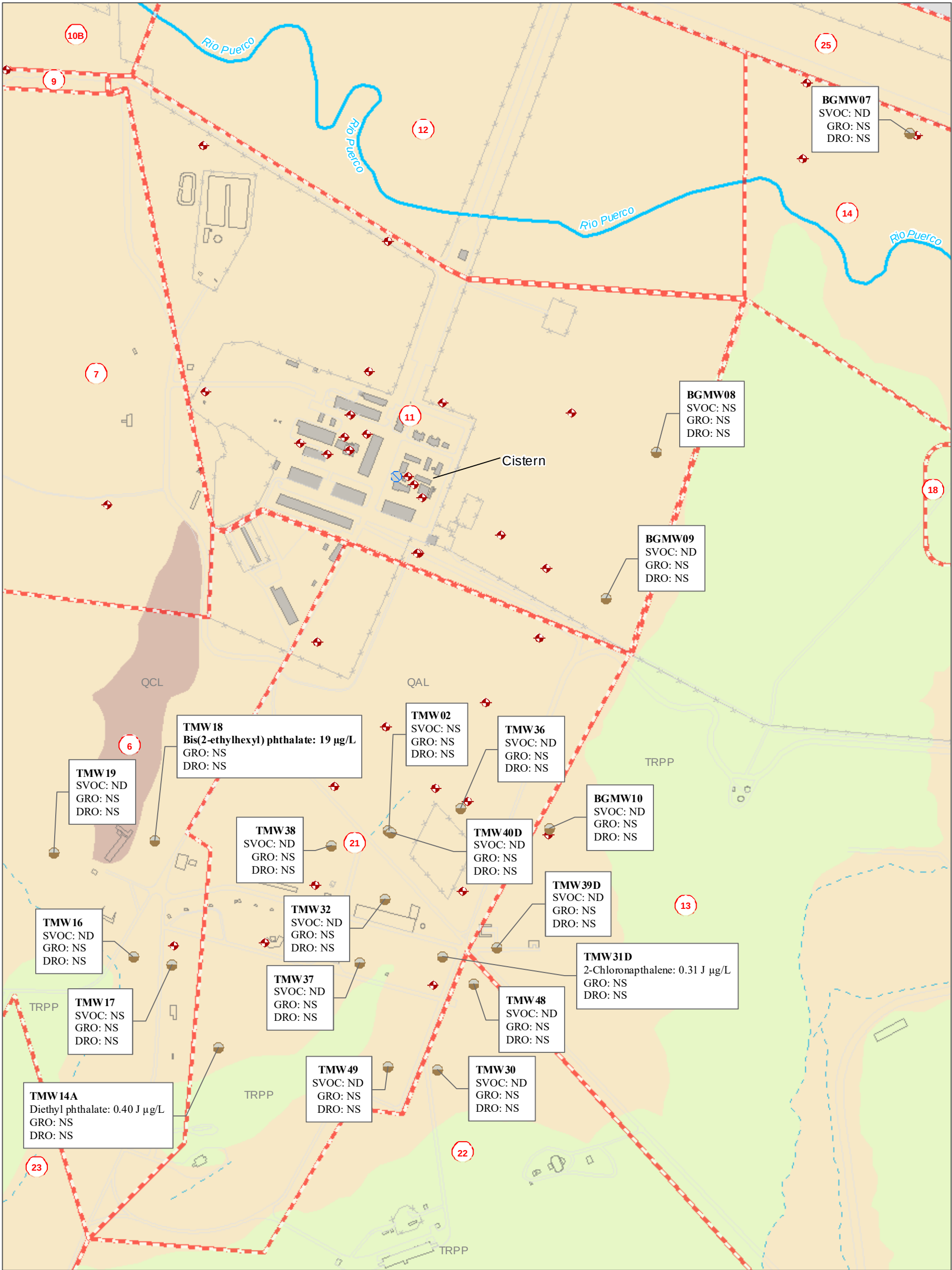


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Consulting Inc.

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Legend

- Alluvial Well
- Bedrock Well
- Well 69
- Parcel Number
- Parcel Boundary
- Existing Structure
- Former Structure
- Road
- Arroyo
- Rio Puerco
- Fence
- QAL-Quaternary Alluvial Deposits
- QCL-Quaternary Colluvium
- TRPP-Petrified Forest Formation

Notes

µg/L = microgram per liter
J = The analyte was positively identified by laboratory; the reported concentration is estimated.
DRO = diesel range organics
GRO = gasoline range organics
ND = not detected
NS = not sampled
SVOC = semivolatile organic compounds
TPH = total petroleum hydrocarbons
BOLD values indicate;
Bis(2-ethylhexyl) phthalate detections > 6 µg/L



0 250 500 750
Feet

0 0.05 0.1 0.2
Miles

Coordinate System:
NAD 1983 StatePlane New Mexico West FIPS 3003 Feet

Figure 5-10

Northern Area SVOC and TPH
Concentrations in Bedrock
Groundwater, April 2018

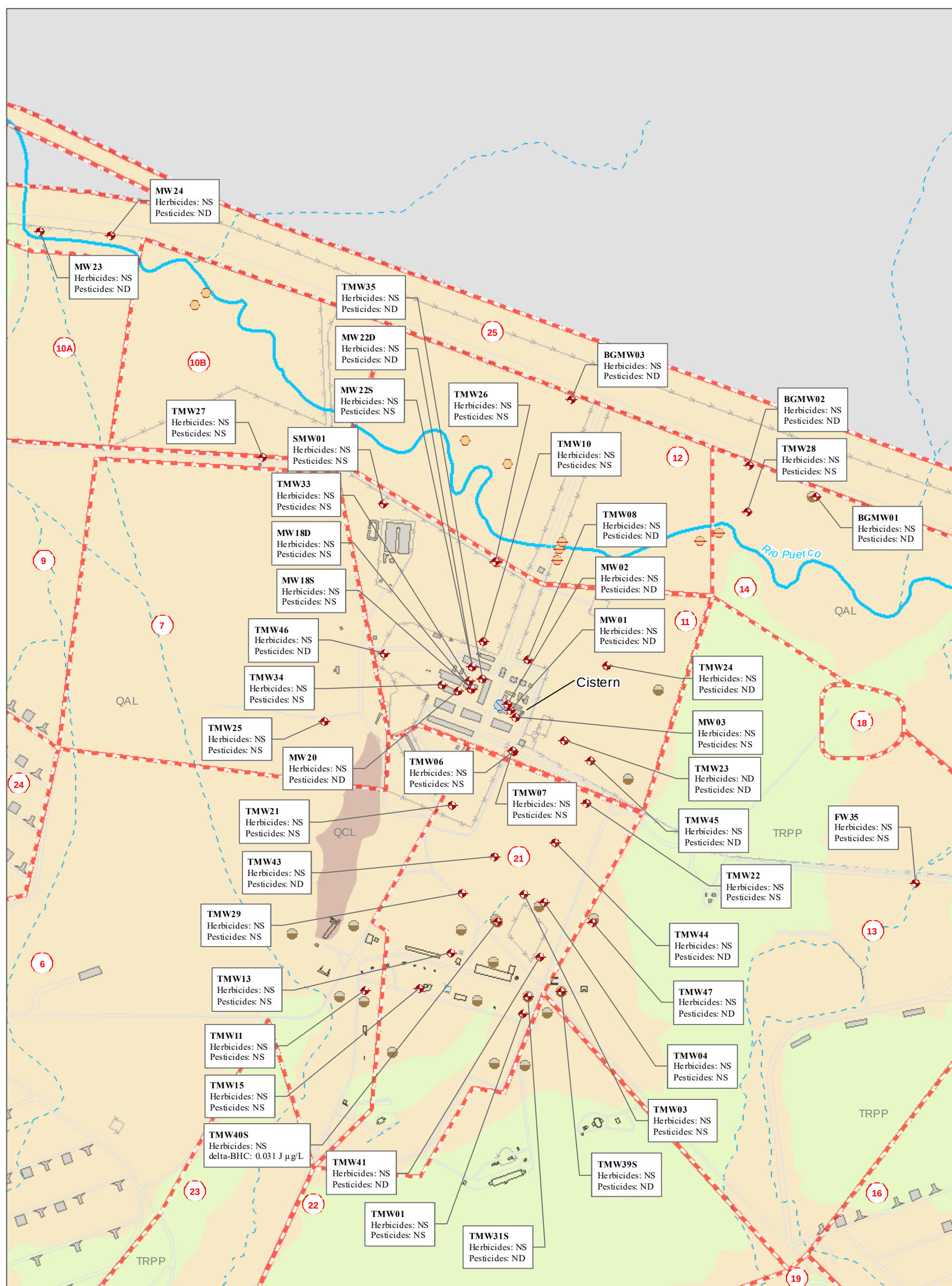
Groundwater Periodic Monitoring
Report, January-June 2018

Fort Wingate Depot Activity
McKinley County, New Mexico



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Consulting Inc.

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Legend

-  Alluvial Well  Fence
 Bedrock Well  QAL-Quaternary Alluvial Deposits
 Piezometer  QCL-Quaternary Gravel
 Well 69  TRPP-Petrified Forest Formation

 Parcel Number
 Parcel Boundary
 Existing Structure
 Former Structure

 Road
 Arroyo
 Rio Puerco

Notes

> = greater than
 µg/L = microgram per liter
 J = The analyte was positively identified by laboratory;
 the reported concentration is estimated.
 ND = not detected
 NS = not sampled

FW31, located in Parcel 19,
was not sampled for herbicides or pesticides.
FW31 is not shown on this map.

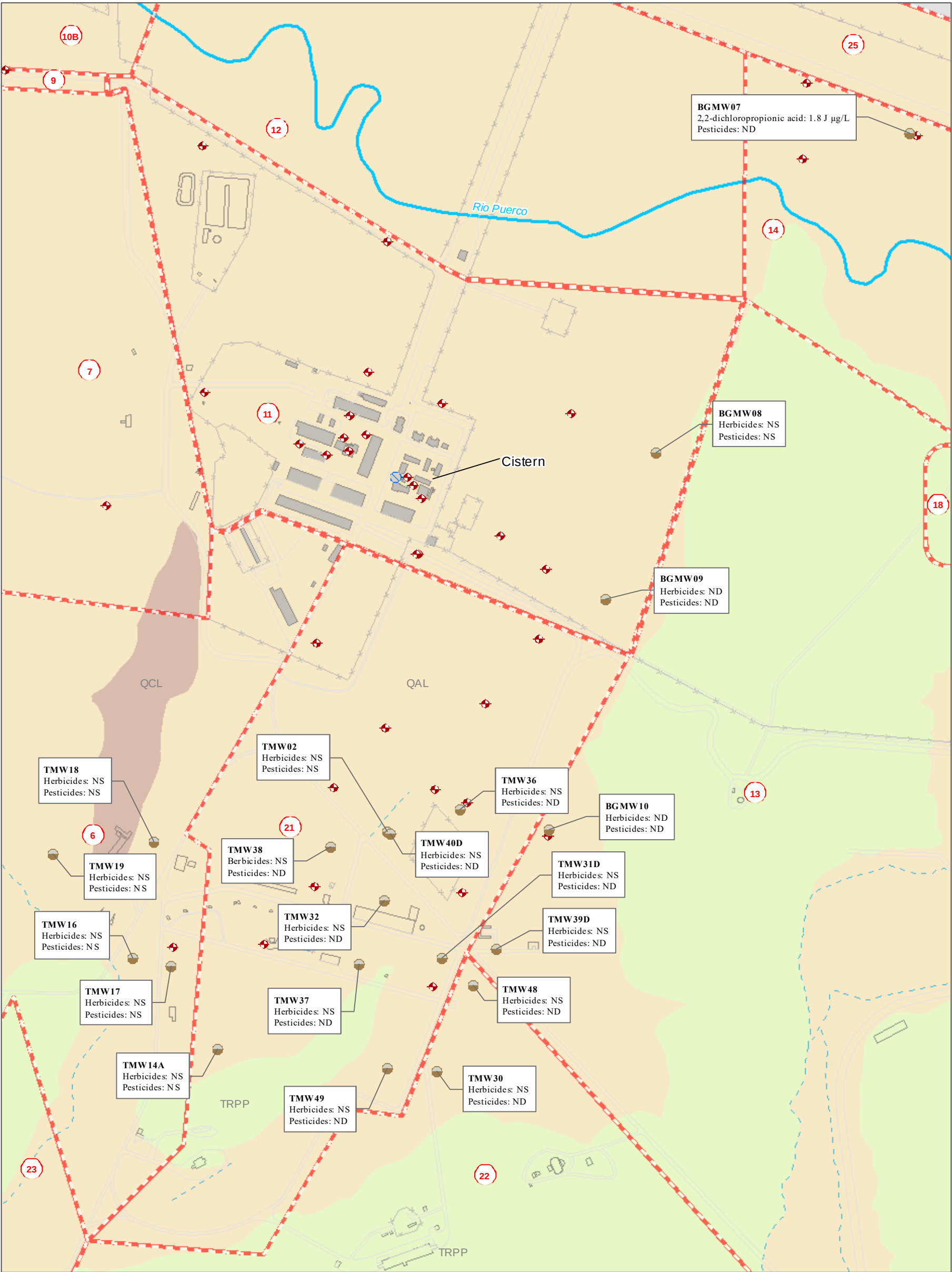
Northern Area Herbicide and Pesticide Concentrations in Alluvial Groundwater, April 2018

Groundwater Periodic Monitoring Report, January-June 2018

Fort Wingate Depot Activity
McKinley County, New Mexico



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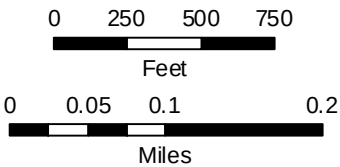


Legend

- Alluvial Well
- Bedrock Well
- Well 69
- Parcel Number
- Parcel Boundary
- Existing Structure
- Former Structure
- Road
- Arroyo
- Rio Puerco
- Fence
- QAL-Quaternary Alluvial Deposits
- QCL-Quaternary Gravel
- TRPP-Petrified Forest Formation

Notes

> = greater than
µg/L = microgram per liter
J = The analyte was positively identified by laboratory;
the reported concentration is estimated.
ND = not detected
NS = not sampled



Coordinate System:
NAD 1983 StatePlane New Mexico West FIPS 3003 Feet

Figure 5-12

Northern Area Herbicide and Pesticide
Concentrations in Bedrock
Groundwater, April 2018

Groundwater Periodic Monitoring
Report, January-June 2018

Fort Wingate Depot Activity
McKinley County, New Mexico



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TABLES

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Table 2-1: Well Construction Details

Well Name	FWDA Parcel	Date Installed	Drilling Method	Northing ^a	Easting ^a	Ground Elevation (famsl) ^b	MP Elevation (famsl) ^b	Well Depth (ft bgs)	Boring Diameter (in)	Casing Diameter (in)	Casing Type	Screen Length (ft)	Screened Interval (ft bgs)	Screened Interval (famsl)	Status	Description
Northern Alluvial Groundwater Zone																
BGMW01	14	2/6/12	HSA	1645977.85	2501983.61	6690.28	6692.68	33.00	8.00	2.50	PVC/screen	20.0	12.5-32.5	6677.78-6657.78	Active	Sandy Silt
BGMW02	14	2/9/12	HSA	1646314.67	2501276.54	6689.20	6691.99	34.00	8.00	2.50	PVC/screen	20.0	13.5-33.5	6675.70-6655.70	Active	Silt/Sand/Clay
BGMW03	12	2/5/12	HSA	1647012.12	2499392.83	6677.79	6680.57	29.00	8.00	2.50	PVC/screen	20.0	8.5-28.5	6669.29-6649.29	Active	Clay
FW31	19	11/19/80	HSA	1631192.98	2505201.31	6830.72	6832.49	50.00	8.00	4.00	PVC/screen	40.0	10.0-50.0	6815.71-6775.71	Active	Clay
FW35	13	11/15/80	HSA	1641888.44	2503025.94	6709.17	6711.11	30.00	8.00	4.00	PVC/screen	20.0	10.0-30.0	6699.26-6679.26	Active	Clay
MW01	11	11/22/96	HSA	1643726.78	2498748.62	6686.03	6685.94	55.00	10.50	2.00	PVC/screen	20.0	33.6-53.6	6651.99-6631.99	Active	Sand/Silty Clay
MW02	11	11/25/96	HSA	1643783.35	2498712.23	6685.78	6685.22	48.00	10.50	2.00	PVC/screen	10.0	37.0-47.0	6645.76-6635.76	Active	Clayey Sand/Clay
MW03	11	11/26/96	HSA	1643644.43	2498801.96	6687.50	6689.53	53.00	10.50	2.00	PVC/screen	10.0	43.0-53.0	6644.42-6634.42	Active	Silty Sand/Clay
MW18D	11	11/1/94	HSA	1643947.99	2498331.32	6684.94	6686.32	59.90	8.00	2.00	PVC/screen	10.0	47.0-57.0	6637.04-6627.04	Active	ND
MW18S	11	11/1/94	HSA	1643948.08	2498331.62	6684.67	6686.61	39.04	8.00	2.00	PVC/screen	10.0	27.0-37.0	6658.17-6648.17	Dry	ND
MW20	11	11/1/94	HSA	1643922.12	2498193.80	6685.34	6687.67	59.40	8.00	2.00	PVC/screen	10.0	47.0-57.0	6638.79-6628.79	Active	ND
MW22D	11	11/1/94	HSA	1644178.39	2498343.15	6682.69	6684.55	58.62	8.00	2.00	PVC/screen	10.0	47.0-57.0	6636.55-6626.55	Active	ND
MW22S	11	11/1/94	HSA	1644178.59	2498343.06	6682.69	6684.69	43.54	8.00	2.00	PVC/screen	10.0	31.0-41.0	6651.57-6641.57	Active	ND
MW23	25	6/30/11	HSA	1648792.02	2493767.75	6652.46	6654.50	134.0	8.00	2.50	PVC/screen	70.0	63.5-133.5	6588.96-6518.96	Active	Sand/Clay
MW24	25	7/2/11	HSA	1648746.52	2494518.24	6655.09	6657.08	66.50	8.00	2.50	PVC/screen	50.0	16.0-66.0	6638.09-6588.09	Active	Sand/Clay
SMW01	11	7/29/96	HSA	1645908.54	2497392.99	6668.41	6669.94	50.21	8.00	2.00	PVC/screen	20.0	29.9 - 49.9	6637.86-6617.86	Active	Silty Sand/Sandy Clay
TMW01	21	7/31/96	HSA	1640504.34	2498872.04	6709.79	6711.84	60.00	8.00	2.00	PVC/screen	15.0	44.0 - 59.0	6666.18-6651.18	Active	Clay with Sand Layer
TMW03	21	7/25/96	HSA	1641773.65	2498883.04	6700.37	6702.43	70.10	8.00	2.00	PVC/screen	20.0	49.8 - 69.8	6650.86-6630.86	Active	Silty Clay/Clayey Sand
TMW04	21	7/26/96	HSA	1641690.11	2499095.25	6699.00	6700.86	70.50	8.00	2.00	PVC/screen	20.0	50.0 - 70.0	6649.08-6629.08	Active	Upper Sand/Lower Clay
TMW06	11	8/27/98	HSA	1643285.82	2498783.81	6689.08	6690.63	57.00	8.80	2.00	PVC/screen	10.0	45.0-55.0	6643.85-6633.85	Active	Sandy Silt
TMW07	11	7/24/98	HSA/AR	1643289.14	2498772.33	6689.08	6690.47	76.00	5.50	2.00	PVC/screen	10.0	65.0-75.0	6633.74-6623.74	Active	Sandy Silt
TMW08	11	8/29/98	HSA	1644255.04	2498930.01	6678.55	6680.31	62.00	8.80	2.00	PVC/screen	30.0	30.0-60.0	6648.43-6618.43	Active	Silty Sand/Clay
TMW10	11	8/20/98	HSA	1644455.63	2498459.83	6677.74	6680.04	65.00	8.80	2.00	PVC/screen	30.0	28.0-58.0	6648.86-6618.86	Active	Silty Sand/Clay
TMW11	6	9/9/98	HSA	1640758.33	2497201.28	6716.16	6718.28	82.00	8.75	2.00	PVC/screen	25.0	55.0-80.0	6661.24-6636.24	Active	Silty Gravel/Sand
TMW13	21	8/11/98	HSA	1641150.12	2498112.40	6705.42	6707.49	72.50	8.80	2.00	PVC/screen	10.0	60.7-70.7	6644.35-6634.35	Active	Sandy Clay/Silt
TMW15	21	12/9/01	AR	1640779.84	2497787.12	6710.80	6713.89	82.00	6.00	2.00	PVC/screen	15.0	56.0-71.0	6652.88-6637.88	Active	Silty Gravel/Sand
TMW21	21	8/9/02	HSA	1642714.59	2498128.03	6692.75	6695.14	72.00	8.00	2.00	PVC/screen	10.0	48.0-58.0	6644.76-6634.76	Active	Sand/Silt/Clay
TMW22	21	8/8/02	HSA	1642741.03	2499552.37	6689.80	6691.74	77.00	8.00	2.00	PVC/screen	10.0	52.0-62.0	6637.13-6627.13	Active	Sand/Silt/Clay
TMW23	11	8/6/02	HSA	1643402.27	2499309.65	6685.37	6687.66	72.00	8.00	2.00	PVC/screen	10.0	46.0-56.0	6638.81-6628.81	Active	Clay/Sand
TMW24	11	8/3/03	HSA	1644192.07	2499766.39	6678.52	6680.42	75.00	8.00	2.00	PVC/screen	10.0	44.0-54.0	6633.30-6623.30	Active	Silty Sand/Silt/Sand
TMW25	7	8/1/02	HSA	1643599.42	2496775.99	6671.09	6672.88	74.00	8.00	2.00	PVC/screen	10.0	42.5-52.5	6627.72-6617.72	Active	Silty Sand/Clay
TMW26	11	7/30/02	HSA	1645294.52	2498581.83	6674.88	6677.71	64.80	8.00	2.00	PVC/screen	10.0	45.0-55.0	6629.97-6619.97	Active	Silt/Sand/Clay
TMW27	9	7/26/02	HSA	1646400.43	2496126.29	6665.45	6668.13	102.20	8.00	2.00	PVC/screen	10.0	60.0-70.0	6605.37-6595.37	Active	Sandy Clay/Silt
TMW28	14	7/24/02	HSA	1645827.16	2501250.48	6686.77	6689.17	72.50	8.00	2.00	PVC/screen	10.0	37.0-47.0	6649.79-6639.79	Active	Silty Sand/Sand/Clay
TMW29	21	8/19/02	HSA	1641786.37	2498235.92	6700.31	6702.88	69.00	8.00	2.00	PVC/screen	10.0	49.0-59.0	6652.32-6642.32	Active	Sand/Sandy Clay
TMW31S	21	11/17/09	HSA/AR	1640689.53	2498931.95	6708.53	6710.20	61.00	6.00	2.00	PVC/screen	10.0	50.0-60.0	6658.98-6648.98	Active	Silty Sand/Sand/Clay
TMW33	11	11/19/09	HSA	1644035.48	2498303.75	6684.09	6686.60	60.40	6.00	2.00	PVC/screen	20.0	37.0-57.0	6646.78-6626.78	Active	Silty Sand/Sand/Clay

Table 2-1: Well Construction Details

Well Name	FWDA Parcel	Date Installed	Drilling Method	Northing ^a	Easting ^a	Ground Elevation (famsl) ^b	MP Elevation (famsl) ^b	Well Depth (ft bgs)	Boring Diameter (in)	Casing Diameter (in)	Casing Type	Screen Length (ft)	Screened Interval (ft bgs)	Screened Interval (famsl)	Status	Description
Northern Alluvial Groundwater Zone																
TMW34	11	11/20/09	HSA	1643993.95	2498014.09	6684.32	6687.29	57.25	6.00	2.00	PVC/screen	20.0	37.0-57.0	6650.32-6630.32	Active	Silty Sand/Sand/Clay
TMW35	11	11/21/09	HSA/AR	1644050.75	2498442.31	6684.14	6686.52	55.00	6.00	2.00	PVC/screen	20.0	35.0-55.0	6649.26-6629.26	Active	Silty Sand/Sand/Clay
TMW39S	13	7/5/11	HSA	1640745.21	2499279.83	6706.53	6708.61	53.00	8.00	2.50	PVC/screen	20.0	32.5-52.5	6674.03-6654.03	Active	Clay
TMW40S	21	9/20/11	HSA	1641487.06	2498603.50	6703.81	6706.40	60.50	8.00	2.50	PVC/screen	10.0	50.0-60.0	6653.81-6643.81	Active	Sitl/Sand/Clay
TMW41	21	7/1/11	HSA	1641113.86	2499058.48	6703.48	6705.21	66.00	8.00	2.50	PVC/screen	10.0	55.5-65.5	6647.48-6637.48	Active	Clay with Gravel
TMW43	21	2/3/12	HSA	1642171.46	2498570.92	6695.63	6698.63	78.5	8.00	2.50	PVC/screen	20.0	58.0-78.0	6637.8-6617.8	Active	Sand with Gravel
TMW44	21	2/4/12	HSA	1642323.41	2499212.51	6694.81	6697.31	64.0	8.00	2.50	PVC/screen	20.0	43.5-63.5	6651.5-6631.5	Active	Silty Clay/Sand
TMW45	11	2/8/12	HSA	1643187.53	2499597.72	6686.50	6689.00	59.0	8.00	2.50	PVC/screen	20.0	38.5-58.5	6648.2-6628.2	Active	Sand/Clay
TMW46	11	2/5/12	HSA	1644326.04	2497404.70	6678.69	6680.98	59.0	8.00	2.50	PVC/screen	20.0	38.5-58.5	6640.19-6620.19	Active	Sandy Clay with Gravel
TMW47	13	2/1/12	HSA	1641475.95	2499610.93	6699.32	6701.88	103.0	8.00	2.50	PVC/screen	20.0	82.5-102.5	6616.82-6596.82	Active	Clay/Silt
Northern Bedrock Groundwater Zone																
BGMW07	14	3/25/18	Sonic	1645991.80	2501943.17	6689.09	6691.63	256.00	6.00	2.00	PVC/screen	40.0	215-255	6474.09-6434.09	Active	Sandstone
BGMW08	11	3/12/18	Sonic	1643942.73	2500318.10	6679.08	6685.02	186.00	6.00	2.00	PVC/screen	20.0	165-185	6514.08-6494.08	Active	Sandstone
BGMW09	11	3/9/18	Sonic	1642995.48	2499987.66	6689.39	6692.27	173.00	6.00	2.00	PVC/screen	30.0	106-136	6583.39-6553.39	Active	Sandstone
BGMW10	13	3/21/18	Sonic	1641517.64	2499626.14	6698.80	6701.49	147.00	6.00	2.00	PVC/screen	30.0	106-136	6592.8-6562.8	Active	Sandstone
TMW02	21	7/31/96	HSA	1641503.03	2498583.97	6703.34	6705.35	85.00	8.00	2.00	PVC/screen	14.0	67.9 - 81.9	6636.06-6622.06	Active	Sandstone
TMW14A	21	1/25/01	AR	1640105.58	2497489.30	6721.08	6723.54	110.00	6.00	2.00	PVC/screen	15.0	94.25-109.25	6627.34-6612.34	Active	Sandstone
TMW16	6	12/5/01	AR	1640687.46	2496941.08	6711.65	6714.15	142.0	6.00	2.00	PVC/screen	15.0	123.0-138.0	6587.59-6572.95	Active	Sandstone
TMW17	6	12/13/01	AR	1640639.74	2497193.66	6717.40	6719.89	152.0	6.00	2.00	PVC/screen	15.0	112.0-127.0	6605.49-6590.49	Active	Sandstone
TMW18	6	12/14/01	AR	1641437.52	2497083.23	6710.14	6713.49	220.00	6.00	2.00	PVC/screen	10.0	150.0-160.0	6563.66-6553.66	Active	Sandstone
TMW19	6	12/3/01	AR	1641357.45	2496433.25	6697.57	6700.52	187.00	6.00	2.00	PVC/screen	15.0	169.0-184.0	6528.57-6513.57	Active	Sandstone
TMW30	21	11/15/09	HSA/AR	1639957.87	2498898.99	6712.35	6714.59	51.5	6.00	2.00	PVC/screen	10.0	35.0-45.0	6677.31-6667.31	Active	Sandstone
TMW31D	21	11/16/09	HSA/AR	1640689.53	2498931.95	6708.53	6710.44	111.5	6.00	2.00	PVC/screen	30.0	77.0 - 107.0	6631.98-6601.98	Active	Sandstone
TMW32	21	11/18/09	HSA	1641059.71	2498559.18	6707.09	6709.31	139.10	6.00	2.00	PVC/screen	20.0	117.0-137.0	6590.89-6570.89	Active	Sandstone
TMW36	21	11/22/09	HSA/AR	1641645.74	2499049.17	6697.33	6699.04	157.00	6.00	2.00	PVC/screen	20.0	132.0-152.0	6567.32-6547.32	Active	Sandstone
TMW37	21	11/23/09	HSA/AR	1640648.14	2498397.74	6710.51	6713.09	111.0	6.00	2.00	PVC/screen	20.0	88.0-108.0	6622.88-6602.88	Active	Sandstone
TMW38	21	9/3/11	HSA	1641400.80	2498219.52	6704.41	6706.79	159.5	8.00	2.50	PVC/screen	40.0	118.9-158.9	6585.41-6545.41	Active	Sandstone
TMW39D	13	9/7/11	HSA	1640745.21	2499279.83	6706.53	6708.61	100.50	8.00	2.50	PVC/screen	30.0	70.0-100.0	6636.53-6606.53	Active	Sandstone
TMW40D	21	9/20/11	HSA	1641487.06	2498603.50	6703.81	6706.15	155.50	8.00	2.50	PVC/screen	20.0	135.0-155.0	6568.81-6548.81	Active	Sandstone
TMW48	13	9/15/11	HSA	1640515.53	2499131.31	6707.80	6709.80	91.5	8.00	2.50	PVC/screen	20.0	71.0-91.0	6636.80-6616.80	Active	Sand
TMW49	21	9/9/11	HSA	1639979.77	2498578.38	6712.20	6714.70	60.0	8.00	2.50	PVC/screen	20.0	40.0-60.0	6672.20-6652.20	Active	Sand

Notes:
^a Horizontal coordinate system: North American Datum of 1983, NM State Plane Central
^b Vertical coordinate system: North American Vertical Datum of 1988

Table 2-1: Well Construction Details

Acronyms and Abbreviations:

- AR = air rotary
- bgs = below ground surface
- famsl = feet above mean sea level
- ft = foot
- FWDA = Fort Wingate Depot Activity
- HSA = hollow-stem auger
- in = inch
- MP = measuring point
- ND = no data available
- NM = New Mexico
- PVC = polyvinyl chloride

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Table 2-2: April 2018 Groundwater Sample Matrix

Well Name	Purge Method	Pump Type	Sample ID	Nitrate/ Nitrite Method 9056A	Explosives Method 8330B	Perchlorate Method 6860	TCL VOCs Method 8260C	TCL SVOCs Method 8270D	TAL Dissolved Metals Methods 6010C/6020A / 7470A	TAL Total Metals Methods 6010C/6020A/ 7470A	TPH DRO Method 8015C	TPH GRO Method 8015C	TCL Pesticides Method 8081A	PCB Method 8082A	Herbicides Method 8151A
Northern Alluvial Groundwater Zone															
BGMW01	low-flow	BESST	BGMW01042018	X	X	X	X	X	X	X			X		
BGMW02	low-flow	BESST	BGMW02042018	X	X	X	X	X	X	X			X		
Matrix Spike ^a	low-flow	BESST	BGMW02042018MS	X	X	X	X	X	X	X			X		
Matrix Spike ^a	low-flow	BESST	BGMW02042018MSD	X	X	X	X	X	X	X			X		
BGMW03	well volume	Grundfos	BGMW03042018	X	X	X	X	X	X	X			X		
FW31	well volume	bail	FW31042018	X	X		X	X	X	X			X		
FW35	well volume	Grundfos	FW35042018	Well was dry and was not sampled.											
MW01	well volume	bail	MW01042018	X	X	X	X		X	X	X	X	X		
MW02	well volume	bail	MW02042018	X	X	X	X		X	X	X	X	X		
MW03	low-flow	BESST	MW03042018	X	X	X	X		X	X	X	X			
MW18D	well volume	Grundfos	MW18D042018	X	X	X	X		X	X	X	X			
MW20	low-flow	BESST	MW20042018	X	X	X	X	X	X	X	X	X	X		
MW22D	low-flow	BESST	MW22D042018	X	X	X	X	X	X	X	X	X	X		
Matrix Spike ^a	low-flow	BESST	MW22D042018MS	X	X	X	X	X	X	X	X	X	X		
Matrix Spike ^a	low-flow	BESST	MW22D042018MSD	X	X	X	X	X	X	X	X	X	X		
MW22S	well volume	bail	MW22S042018	Well was dry and was not sampled.											
MW23	well volume	Bennett	MW23042018	X	X	X	X	X	X	X			X		
Duplicate ^b	well volume	Bennett	MW23042018FD	X	X	X	X	X	X	X			X		
Matrix Spike ^a	well volume	Bennett	MW23042018MS	X	X	X	X	X	X	X			X		
Matrix Spike ^a	well volume	Bennett	MW23042018MSD	X	X	X	X	X	X	X			X		
MW24	well volume	Bennett	MW24042018	X	X	X	X	X	X	X			X		
Duplicate ^b	well volume	Bennett	MW24042018FD	X	X	X	X	X	X	X			X		
SMW01	low-flow	BESST	SMW01042018	X	X	X	X	X	X	X					
TMW01	low-flow	BESST	TMW01042018	X	X	X	X		X	X					
TMW03	low-flow	BESST	TMW03042018	X	X	X	X	X	X	X					
TMW04	low-flow	BESST	TMW04042018	X	X	X	X	X	X	X					
TMW06	low-flow	BESST	TMW06042018	X	X		X	X	X	X					
TMW07	well volume	Grundfos	TMW07042018	X	X		X	X	X	X					
TMW08	low-flow	BESST	TMW08042018	X		X	X		X	X	X	X	X		
TMW10	well volume	Grundfos	TMW10042018	X	X	X	X		X	X					
TMW11	low-flow	BESST	TMW11042018	X	X	X	X		X	X					
TMW13	low-flow	BESST	TMW13042018	X		X	X		X	X					
TMW15	low-flow	BESST	TMW15042018	X	X	X	X	X	X	X					

Table 2-2: April 2018 Groundwater Sample Matrix

Well Name	Purge Method	Pump Type	Sample ID	Nitrate/ Nitrite Method 9056A	Explosives Method 8330B	Perchlorate Method 6860	TCL VOCs Method 8260C	TCL SVOCs Method 8270D	TAL Dissolved Metals Methods 6010C/6020A / 7470A	TAL Total Metals Methods 6010C/6020A/ 7470A	TPH DRO Method 8015C	TPH GRO Method 8015C	TCL Pesticides Method 8081A	PCB Method 8082A	Herbicides Method 8151A
Duplicate ^b	low-flow	BESST	TMW15042018FD	X	X	X	X	X	X	X					
TMW21	well volume	bail	TMW21042018	X	X	X	X		X	X					
TMW22	well volume	Grundfos	TMW22042018	X	X	X	X	X	X	X					
TMW23	well volume	Grundfos	TMW23042018	X	X	X	X		X	X			X		
TMW24	low-flow	BESST	TMW24042018	X	X	X	X		X	X			X		
TMW25	low-flow	BESST	TMW25042018	X	X		X		X	X					
TMW26	low-flow	BESST	TMW26042018	X	X	X	X		X	X					
Duplicate ^b	low-flow	BESST	TMW26042018FD	X	X	X	X		X	X					
TMW27	low-flow	BESST	TMW27042018			X	X		X	X					
TMW28	low-flow	BESST	TMW28042018	X			X		X	X					
TMW29	well volume	bail	TMW29042018	X	X	X	X		X	X					
TMW31S	well volume	Grundfos	TMW31S042018	X	X	X	X	X	X	X			X		
TMW33	well volume	Grundfos	TMW33042018	X			X	X	X	X	X	X			
TMW34	well volume	Grundfos	TMW34042018	X		X	X		X	X	X	X			
Duplicate ^b	well volume	Grundfos	TMW34042018FD	X		X	X		X	X	X	X			
TMW35	low-flow	BESST	TMW35042018	X		X	X	X	X	X	X	X	X		
TMW39S	well volume	Grundfos	TMW39S042018	X	X	X	X	X	X	X			X		
TMW40S	well volume	bail	TMW40S042018	X	X	X	X	X	X	X			X		
TMW41	well volume	Grundfos	TMW41042018	X	X	X	X	X	X	X			X		
TMW43	low-flow	BESST	TMW43042018	X	X	X	X	X	X	X			X		
Duplicate ^b	low-flow	BESST	TMW43042018FD	X	X	X	X	X	X	X			X		
Matrix Spike ^a	low-flow	BESST	TMW43042018MS	X	X	X	X	X	X	X			X		
Matrix Spike ^a	low-flow	BESST	TMW43042018MSD	X	X	X	X	X	X	X			X		
TMW44	well volume	Grundfos	TMW44042018	X	X	X	X	X	X	X			X		
TMW45	low-flow	BESST	TMW45042018	X	X	X	X	X	X	X			X		
TMW46	well volume	Grundfos	TMW46042018	X	X	X	X	X	X	X			X		
TMW47	low-flow	BESST	TMW47042018	X	X	X	X	X	X	X			X		
Northern Bedrock Groundwater Zone															
BGMW07	well volume	Reclaimer	BGMW07042018	X	X	X	X	X	X	X			X	X	X
BGMW08	well volume	bail	BGMW08042018	Well was dry and was not sampled.											
BGMW09	well volume	bail	BGMW09042018	X	X	X	X	X	X	X			X	X	X
BGMW10	well volume	Reclaimer	BGMW10042018	X	X	X	X	X	X	X			X	X	X
TMW02	low-flow	BESST	TMW02042018	X	X	X	X		X	X					
TMW14A	low-flow	BESST	TMW14A042018	X	X		X	X	X	X					

Table 2-2: April 2018 Groundwater Sample Matrix

Well Name	Purge Method	Pump Type	Sample ID	Nitrate/ Nitrite Method 9056A	Explosives Method 8330B	Perchlorate Method 6860	TCL VOCs Method 8260C	TCL SVOCs Method 8270D	TAL Dissolved Metals Methods 6010C/6020A / 7470A	TAL Total Metals Methods 6010C/6020A/ 7470A	TPH DRO Method 8015C	TPH GRO Method 8015C	TCL Pesticides Method 8081A	PCB Method 8082A	Herbicides Method 8151A
TMW16	well volume	Bennett	TMW16042018		X	X	X	X	X	X					
TMW17	low-flow	BESST	TMW17042018	X		X	X		X	X					
TMW18	well volume	Bennett	TMW18042018	X	X	X	X	X	X	X					
TMW19	well volume	Bennett	TMW19042018		X	X	X	X	X	X					
TMW30	well volume	Grundfos	TMW30042018	X	X	X	X	X	X	X			X		
TMW31D	low-flow	BESST	TMW31D042018	X	X	X	X	X	X	X			X		
Duplicate ^b	low-flow	BESST	TMW31D042018FD	X	X	X	X	X	X	X			X		
TMW32	low-flow	BESST	TMW32042018	X	X	X	X	X	X	X			X		
TMW36	well volume	Bennett	TMW36042018	X	X	X	X	X	X	X			X		
TMW37	well volume	Bennett	TMW37042018	X	X	X	X	X	X	X			X		
TMW38	low-flow	BESST	TMW38042018	X	X	X	X	X	X	X			X		
TMW39D	low-flow	BESST	TMW39D042018	X	X	X	X	X	X	X			X		
TMW40D	low-flow	BESST	TMW40D042018	X	X	X	X	X	X	X			X		
TMW48	low-flow	BESST	TMW48042018	X	X	X	X	X	X	X			X		
TMW49	low-flow	BESST	TMW49042018	X	X	X	X	X	X	X			X		

Acronyms and Abbreviations:

PCB = polychlorinated byphenyl

SVOC = semivolatile organic compound

TAL = target analyte list

TCL = target compound list

TPH DRO = total petroleum hydrocarbons detected as diesel range organics

TPH GRO = total petroleum hydrocarbons detected as gasoline range organics

VOC = volatile organic compound

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Table 3-1: Selected Groundwater Screening Values

Method	Analyte	CAS	Units	NM WQCC GW ¹	EPA MCL ²	EPA Tap Water RSL (carcinogens) ³	EPA Tap Water RSL (non- carcinogens) ⁴	Final Selected GSV ⁵	Final Selected GSV Reference	Risk Endpoint c/nc
6010C	Aluminum	7429-90-5	µg/L	5000			20000	5000	WQCC	
6010C	Calcium ⁶	7440-70-2	µg/L					NA		
6010C	Iron	7439-89-6	µg/L	1000			14000	1000	WQCC	
6010C	Magnesium ⁶	7439-95-4	µg/L					NA		
6010C	Potassium ⁶	7440-09-7	µg/L					NA		
6010C	Sodium ⁶	7440-23-5	µg/L					NA		
6020A	Antimony	7440-36-0	µg/L	6	6		7.8	6	WQCC	
6020A	Arsenic	7440-38-2	µg/L	10	10	0.52	6	10	WQCC	
6020A	Barium	7440-39-3	µg/L	2000	2000		3800	2,000	WQCC	
6020A	Beryllium	7440-41-7	µg/L	4	4		25	4	WQCC	
6020A	Cadmium	7440-43-9	µg/L	5				5	WQCC	
6020A	Chromium	7440-47-3	µg/L	50	100			50	WQCC	
6020A	Cobalt	7440-48-4	µg/L	50			6	50	WQCC	
6020A	Copper	7440-50-8	µg/L	1000	1300		800	1,000	WQCC	
6020A	Lead	7439-92-1	µg/L	15	15		15	15	WQCC	
6020A	Manganese	7439-96-5	µg/L	200				200	WQCC	
6020A	Nickel	7440-02-0	µg/L	200			390	200	WQCC	
6020A	Selenium	7782-49-2	µg/L	50	50		100	50	WQCC	
6020A	Silver	7440-22-4	µg/L	50			94	50	WQCC	
6020A	Thallium	7440-28-0	µg/L	2	2		0.2	2	WQCC	
6020A	Vanadium	7440-62-2	µg/L				86	86	RSL	nc
6020A	Zinc	7440-66-6	µg/L	10000			6000	10000	WQCC	
6860	Perchlorate	14797-73-0	µg/L		15		14	15	MCL	
7470A	Mercury	7439-97-6	µg/L	2	2		0.63	2	WQCC	
8015C	Diesel Range Organics (DRO) [C10-C28]	STL00143	µg/L					NS		
8015C	o-Terphenyl ⁷	84-15-1	%					NA		
8015C	Gasoline Range Organics (GRO) [C6-C10]	8006-61-9	µg/L					NS		

Table 3-1: Selected Groundwater Screening Values

Method	Analyte	CAS	Units	NM WQCC GW ¹	EPA MCL ²	EPA Tap Water RSL (carcinogens) ³	EPA Tap Water RSL (non-carcinogens) ⁴	Final Selected GSV ⁵	Final Selected GSV Reference	Risk Endpoint c/nc
8015C	a,a,a-Trifluorotoluene ⁷	98-08-8	%					NA		
8081A	4,4'-DDD	72-54-8	µg/L			0.32	0.063	0.063	RSL	nc
8081A	4,4'-DDE	72-55-9	µg/L			0.46	6	0.46	RSL	c
8081A	4,4'-DDT	50-29-3	µg/L			2.3	10	2.3	RSL	c
8081A	Aldrin	309-00-2	µg/L			0.0092	0.6	0.0092	RSL	c
8081A	alpha-BHC	319-84-6	µg/L			0.072	97	0.072	RSL	c
8081A	alpha-Chlordane (surrogate Chlordane)	5103-71-9	µg/L		2	0.2	0.74	2	MCL	
8081A	beta-BHC	319-85-7	µg/L			0.25		0.25	RSL	c
8081A	delta-BHC (surrogate beta-BHC)	319-86-8	µg/L			0.25		0.25	RSL	c
8081A	Dieldrin	60-57-1	µg/L			0.018	0.38	0.018	RSL	c
8081A	Endosulfan I (surrogate Endosulfan)	959-98-8	µg/L				100	100	RSL	nc
8081A	Endosulfan II (surrogate Endosulfan)	33213-65-9	µg/L				100	100	RSL	nc
8081A	Endosulfan sulfate (surrogate Endosulfan)	1031-07-8	µg/L				100	100	RSL	nc
8081A	Endrin	72-20-8	µg/L		2		2.3	2	MCL	
8081A	Endrin aldehyde (surrogate Endrin)	7421-93-4	µg/L		2		2.3	2	MCL	
8081A	Endrin ketone (surrogate Endrin)	53494-70-5	µg/L		2		2.3	2	MCL	
8081A	gamma-BHC (Lindane)	58-89-9	µg/L		0.2	0.42	3.6	0.2	MCL	
8081A	gamma-Chlordane (surrogate Chlordane)	5103-74-2	µg/L		2	0.2	0.74	2	MCL	
8081A	Heptachlor	76-44-8	µg/L		0.4	0.014	1.3	0.4	MCL	
8081A	Heptachlor epoxide	1024-57-3	µg/L		0.2	0.014	0.12	0.2	MCL	
8081A	Methoxychlor	72-43-5	µg/L		40		37	40	MCL	
8081A	Toxaphene	8001-35-2	µg/L		3	0.71	1.8	3	MCL	

Table 3-1: Selected Groundwater Screening Values

Method	Analyte	CAS	Units	NM WQCC GW ¹	EPA MCL ²	EPA Tap Water RSL (carcinogens) ³	EPA Tap Water RSL (non-carcinogens) ⁴	Final Selected GSV ⁵	Final Selected GSV Reference	Risk Endpoint c/nc
8081A	DCB Decachlorobiphenyl ⁷	2051-24-3	µg/L					NA		
8081A	Tetrachloro-m-xylene ⁷	877-09-8	µg/L					NA		
8082A	PCB-1016	12674-11-2	µg/L	0.5		2.2	1.4	0.5	WQCC	
8082A	PCB-1221	11104-28-2	µg/L	0.5		0.047		0.5	WQCC	
8082A	PCB-1232	11141-16-5	µg/L	0.5		0.047		0.5	WQCC	
8082A	PCB-1242	53469-21-9	µg/L	0.5		0.078		0.5	WQCC	
8082A	PCB-1248	12672-29-6	µg/L	0.5		0.078		0.5	WQCC	
8082A	PCB-1254	11097-69-1	µg/L	0.5		0.078	0.4	0.5	WQCC	
8082A	PCB-1260	11096-82-5	µg/L	0.5		0.078		0.5	WQCC	
8151A	2,2-dichloropropionic acid (Dalapon)	75-99-0	µg/L		200		600	200	MCL	
8151A	2,4,5-Trichlorophenoxyacetic Acid	93-76-5	µg/L				160	160	RSL	nc
8151A	2,4,5-Trichlorophenoxypropionic acid (silvex)	93-72-1	µg/L		50		110	50	MCL	
8151A	2,4-Dichlorophenoxy Acetic Acid	94-75-7	µg/L		70		170	70	MCL	
8151A	2,4-Dichlorophenoxy Butanoic acid	94-82-6	µg/L				450	450	RSL	nc
8151A	Dicamba	1918-00-9	µg/L				570	570	RSL	nc
8151A	Dichloroprop	120-36-5	µg/L					NS		
8151A	Dinoseb	88-85-7	µg/L		7		15	7	MCL	
8151A	MCPA (2-methyl-4-chlorophenoxyacetic acid)	94-74-6	µg/L				7.5	7.5	RSL	nc
8151A	MCPP	93-65-2	µg/L				16	16	RSL	nc
8260C	1,1,1,2-Tetrachloroethane	630-20-6	µg/L			5.7	480	5.7	RSL	c

Table 3-1: Selected Groundwater Screening Values

Method	Analyte	CAS	Units	NM WQCC GW ¹	EPA MCL ²	EPA Tap Water RSL (carcinogens) ³	EPA Tap Water RSL (non- carcinogens) ⁴	Final Selected GSV ⁵	Final Selected GSV Reference	Risk Endpoint c/nc
8260C	1,1,1-Trichloroethane	71-55-6	µg/L	200	200		8000	200	WQCC	
8260C	1,1,2,2-Tetrachloroethane	79-34-5	µg/L	10		0.76	360	10	WQCC	
8260C	1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	µg/L				10000	10000	RSL	nc
8260C	1,1,2-Trichloroethane	79-00-5	µg/L	5	5	2.8	0.41	5	WQCC	
8260C	1,1-Dichloroethane	75-34-3	µg/L	25		28	3800	25	WQCC	
8260C	1,1-Dichloroethene	75-35-4	µg/L	7	7		280	7	WQCC	
8260C	1,1-Dichloropropene (surrogate dichloropropene, 1,3-)	563-58-6	µg/L			4.7	39	4.7	RSL	c
8260C	1,2,3-Trichlorobenzene	87-61-6	µg/L				7	7	RSL	nc
8260C	1,2,3-Trichloropropane	96-18-4	µg/L			0.0075	0.62	0.0075	RSL	c
8260C	1,2,4-Trichlorobenzene	120-82-1	µg/L	70	70	12	4	70	WQCC	
8260C	1,2,4-Trimethylbenzene	95-63-6	µg/L				56	56	RSL	nc
8260C	1,2-Dibromo-3-Chloropropane	96-12-8	µg/L		0.2	0.0033	0.37	0.2	MCL	
8260C	1,2-Dibromoethane	106-93-4	µg/L	0.05	0.05	0.075	17	0.05	WQCC	
8260C	1,2-Dichlorobenzene	95-50-1	µg/L	600	600		300	600	WQCC	
8260C	1,2-Dichloroethane	107-06-2	µg/L	5	5	1.7	13	5	WQCC	
8260C	1,3,5-Trimethylbenzene	108-67-8	µg/L				60	60	RSL	nc
8260C	1,3-Dichlorobenzene (surrogate dichlorobenzene, 1,4-)	541-73-1	µg/L	75	75	4.8	570	75	WQCC	
8260C	1,3-Dichloropropane	142-28-9	µg/L				370	370	RSL	nc
8260C	1,4-Dichlorobenzene	106-46-7	µg/L	75	75	4.8	570	75	WQCC	
8260C	2,2-Dichloropropane (surrogate dichloropropane, 1,2-)	594-20-7	µg/L	5	5	8.5	8.2	5	WQCC	
8260C	2-Butanone (MEK)	78-93-3	µg/L				5600	5600	RSL	nc
8260C	2-Chlorotoluene	95-49-8	µg/L				240	240	RSL	nc

Table 3-1: Selected Groundwater Screening Values

Method	Analyte	CAS	Units	NM WQCC GW ¹	EPA MCL ²	EPA Tap Water RSL (carcinogens) ³	EPA Tap Water RSL (non-carcinogens) ⁴	Final Selected GSV ⁵	Final Selected GSV Reference	Risk Endpoint c/nc
8260C	2-Hexanone	591-78-6	µg/L				38	38	RSL	nc
8260C	4-Chlorotoluene	106-43-4	µg/L				250	250	RSL	nc
8260C	4-Methyl-2-pentanone (MIBK)	108-10-1	µg/L				6300	6300	RSL	nc
8260C	Acetone	67-64-1	µg/L				14000	14000	RSL	nc
8260C	Benzene	71-43-2	µg/L	5	5	4.6	33	5	WQCC	
8260C	Bromobenzene	108-86-1	µg/L				62	62	RSL	nc
8260C	Bromochloromethane	74-97-5	µg/L				83	83	RSL	nc
8260C	Bromodichloromethane	75-27-4	µg/L		80	1.3	380	80	MCL	
8260C	Bromoform	75-25-2	µg/L		80	33	380	80	MCL	
8260C	Bromomethane	74-83-9	µg/L				7.5	7.5	RSL	nc
8260C	Carbon disulfide	75-15-0	µg/L				810	810	RSL	nc
8260C	Carbon tetrachloride	56-23-5	µg/L	5	5	4.6	49	5	WQCC	
8260C	Chlorobenzene	108-90-7	µg/L		100		78	100	MCL	
8260C	Chloroethane	75-00-3	µg/L				21000	21000	RSL	nc
8260C	Chloroform	67-66-3	µg/L	100	80.0(F)	2.2	97	80	MCL	
8260C	Chloromethane	74-87-3	µg/L				190	190	RSL	nc
8260C	cis-1,2-Dichloroethene	156-59-2	µg/L	70	70		36	70	WQCC	
8260C	cis-1,3-Dichloropropene (surrogate dichloropropene, 1,3-)	10061-01-5	µg/L			4.7	39	4.7	RSL	c
8260C	Dibromochloromethane	124-48-1	µg/L		80	8.7	380	80	MCL	
8260C	Dibromomethane	74-95-3	µg/L				8.3	8.3	RSL	nc
8260C	Dichlorodifluoromethane	75-71-8	µg/L				200	200	RSL	nc
8260C	Ethylbenzene	100-41-4	µg/L	700	700	15	810	700	WQCC	
8260C	Hexachlorobutadiene	87-68-3	µg/L			1.4	6.5	1.4	RSL	c
8260C	Isopropylbenzene	98-82-8	µg/L				450	450	RSL	nc
8260C	Methyl acetate	79-20-9	µg/L				20000	20000	RSL	nc
8260C	Methyl tert-butyl ether	1634-04-4	µg/L	100		140	6300	100	WQCC	

Table 3-1: Selected Groundwater Screening Values

Method	Analyte	CAS	Units	NM WQCC GW ¹	EPA MCL ²	EPA Tap Water RSL (carcinogens) ³	EPA Tap Water RSL (non- carcinogens) ⁴	Final Selected GSV ⁵	Final Selected GSV Reference	Risk Endpoint c/nc
8260C	Methylcyclohexane (surrogate cyclohexane)	108-87-2	µg/L				13000	13000	RSL	nc
8260C	Methylene Chloride	75-09-2	µg/L	5	5	110	110	5	WQCC	
8260C	m-Xylene & p-Xylene (surrogate o-xylene)	179601-23-1	µg/L				190	190	RSL	nc
8260C	Naphthalene	91-20-3	µg/L	30		1.7	6.1	30	WQCC	
8260C	n-Butylbenzene	104-51-8	µg/L				1000	1000	RSL	nc
8260C	N-Propylbenzene	103-65-1	µg/L				660	660	RSL	nc
8260C	o-Xylene	95-47-6	µg/L				190	190	RSL	nc
8260C	p-Isopropyltoluene (surrogate cumene)	99-87-6	µg/L				450	450	RSL	nc
8260C	sec-Butylbenzene	135-98-8	µg/L				2000	2000	RSL	nc
8260C	Styrene	100-42-5	µg/L	100	100		1200	100	WQCC	
8260C	tert-Butylbenzene	98-06-6	µg/L				690	690	RSL	nc
8260C	Toluene	108-88-3	µg/L	1000	1000		1100	1000	WQCC	
8260C	trans-1,2-Dichloroethene	156-60-5	µg/L	100	100		360	100	WQCC	
8260C	trans-1,3-Dichloropropene (surrogate dichloropropene, 1,3-)	10061-02-6	µg/L			4.7	39	4.7	RSL	c
8260C	Trichloroethene	79-01-6	µg/L	5	5	4.9	2.8	5	WQCC	
8260C	Trichlorofluoromethane	75-69-4	µg/L				5200	5200	RSL	nc
8260C	Vinyl chloride	75-01-4	µg/L	2	2	0.19	44	2	WQCC	
8260C	1,2-Dichloroethane-d4 ⁷	17060-07-0	%					NA		
8260C	Toluene-d8 ⁷	2037-26-5	%					NA		
8260C	Dibromofluoromethane ⁷	1868-53-7	%					NA		
8260C	4-Bromofluorobenzene (Surrogate)	460-00-4	%					NA		
8270D	1,2,4,5-Tetrachlorobenzene	95-94-3	µg/L				1.7	1.7	RSL	nc

Table 3-1: Selected Groundwater Screening Values

Method	Analyte	CAS	Units	NM WQCC GW ¹	EPA MCL ²	EPA Tap Water RSL (carcinogens) ³	EPA Tap Water RSL (non- carcinogens) ⁴	Final Selected GSV ⁵	Final Selected GSV Reference	Risk Endpoint c/nc
8270D	1,2,4-Trichlorobenzene	120-82-1	µg/L	70	70	12	4	70	WQCC	
8270D	1,2-Dichlorobenzene	95-50-1	µg/L	600	600		300	600	WQCC	
8270D	1,2-Diphenylhydrazine	122-66-7	µg/L			0.78		0.78	RSL	c
8270D	1,3-Dichlorobenzene (surrogate dichlorobenzene, 1,4-)	541-73-1	µg/L	75	75	4.8	570	75	WQCC	
8270D	1,4-Dichlorobenzene	106-46-7	µg/L	75	75	4.8	570	75	WQCC	
8270D	2,2'-oxybis[1- chloropropane]	108-60-1	µg/L				710	710	RSL	nc
8270D	2,3,4,6-Tetrachlorophenol	58-90-2	µg/L				240	240	RSL	nc
8270D	2,4,5-Trichlorophenol	95-95-4	µg/L				1200	1200	RSL	nc
8270D	2,4,6-Trichlorophenol	88-06-2	µg/L			41	12	12	RSL	nc
8270D	2,4-Dichlorophenol	120-83-2	µg/L				46	46	RSL	nc
8270D	2,4-Dimethylphenol	105-67-9	µg/L				360	360	RSL	nc
8270D	2,4-Dinitrophenol	51-28-5	µg/L				39	39	RSL	nc
8270D	2,4-Dinitrotoluene	121-14-2	µg/L			2.4	38	2.4	RSL	c
8270D	2,6-Dichlorophenol (surrogate dichlorophenol, 2,4-)	87-65-0	µg/L				46	46	RSL	nc
8270D	2,6-Dinitrotoluene	606-20-2	µg/L			0.49	5.7	0.49	RSL	c
8270D	2-Chloronaphthalene	91-58-7	µg/L				750	750	RSL	nc
8270D	2-Chlorophenol	95-57-8	µg/L				91	91	RSL	nc
8270D	2-Methylnaphthalene	91-57-6	µg/L	30			36	30	WQCC	
8270D	2-Methylphenol	95-48-7	µg/L				930	930	RSL	nc
8270D	2-Nitroaniline	88-74-4	µg/L				190	190	RSL	nc
8270D	2-Nitrophenol (surrogate chlorophenol, 2-)	88-75-5	µg/L				91	91	RSL	nc
8270D	3 & 4 Methylphenol (surrogate o-cresol)	15831-10-4	µg/L				930	930	RSL	nc
8270D	3,3'-Dichlorobenzidine	91-94-1	µg/L			1.3		1.3	RSL	c

Table 3-1: Selected Groundwater Screening Values

Method	Analyte	CAS	Units	NM WQCC GW ¹	EPA MCL ²	EPA Tap Water RSL (carcinogens) ³	EPA Tap Water RSL (non-carcinogens) ⁴	Final Selected GSV ⁵	Final Selected GSV Reference	Risk Endpoint c/nc
8270D	3-Nitroaniline (surrogate nitroaniline, 4-)	99-09-2	µg/L			38	78	38	RSL	c
8270D	4,6-Dinitro-2-methylphenol	534-52-1	µg/L				1.5	1.5	RSL	nc
8270D	4-Bromophenyl phenyl ether	101-55-3	µg/L					NS		
8270D	4-Chloro-3-methylphenol	59-50-7	µg/L				1400	1400	RSL	nc
8270D	4-Chloroaniline	106-47-8	µg/L			3.7	76	3.7	RSL	c
8270D	4-Chlorophenyl phenyl ether	7005-72-3	µg/L					NS		
8270D	4-Nitroaniline	100-01-6	µg/L			38	78	38	RSL	c
8270D	4-Nitrophenol (surrogate chlorophenol, 2-)	100-02-7	µg/L				91	91	RSL	nc
8270D	Acenaphthene	83-32-9	µg/L				530	530	RSL	nc
8270D	Acenaphthylene	208-96-8	µg/L					NS		
8270D	Acetophenone	98-86-2	µg/L				1900	1900	RSL	nc
8270D	Anthracene	120-12-7	µg/L				1800	1800	RSL	nc
8270D	Benzaldehyde	100-52-7	µg/L			190	1900	190	RSL	c
8270D	Benzidine	92-87-5	µg/L			0.0011	59	0.0011	RSL	c
8270D	Benzo[a]anthracene	56-55-3	µg/L			0.3		0.3	RSL	c
8270D	Benzo[a]pyrene	50-32-8	µg/L	0.2	0.2	0.25	6	0.2	WQCC	
8270D	Benzo[b]fluoranthene	205-99-2	µg/L			2.5		2.5	RSL	c
8270D	Benzo[g,h,i]perylene	191-24-2	µg/L					NS		
8270D	Benzo[k]fluoranthene	207-08-9	µg/L			25		25	RSL	c
8270D	Benzoic acid	65-85-0	µg/L				75000	75000	RSL	nc
8270D	Benzyl alcohol	100-51-6	µg/L				2000	2000	RSL	nc
8270D	Bis(2-chloroethoxy)methane	111-91-1	µg/L				59	59	RSL	nc
8270D	Bis(2-chloroethyl)ether	111-44-4	µg/L			0.14		0.14	RSL	c

Table 3-1: Selected Groundwater Screening Values

Method	Analyte	CAS	Units	NM WQCC GW ¹	EPA MCL ²	EPA Tap Water RSL (carcinogens) ³	EPA Tap Water RSL (non- carcinogens) ⁴	Final Selected GSV ⁵	Final Selected GSV Reference	Risk Endpoint c/nc
8270D	Bis(2-ethylhexyl) phthalate	117-81-7	µg/L		6	56	400	6	MCL	
8270D	Butyl benzyl phthalate	85-68-7	µg/L			160	1700	160	RSL	c
8270D	Caprolactam	105-60-2	µg/L				9900	9900	RSL	nc
8270D	Carbazole (surrogate fluorene)	86-74-8	µg/L				290	290	RSL	nc
8270D	Chrysene	218-01-9	µg/L			250		250	RSL	c
8270D	Dibenz(a,h)anthracene	53-70-3	µg/L			0.25		0.25	RSL	c
8270D	Dibenzofuran	132-64-9	µg/L				7.9	7.9	RSL	nc
8270D	Diethyl phthalate	84-66-2	µg/L				15000	15000	RSL	nc
8270D	Dimethyl phthalate (surrogate diethyl phthalate)	131-11-3	µg/L				15000	15000	RSL	nc
8270D	Di-n-butyl phthalate	84-74-2	µg/L				900	900	RSL	nc
8270D	Di-n-octyl phthalate	117-84-0	µg/L				200	200	RSL	nc
8270D	Fluoranthene	206-44-0	µg/L				800	800	RSL	nc
8270D	Fluorene	86-73-7	µg/L				290	290	RSL	nc
8270D	Hexachlorobenzene	118-74-1	µg/L		1	0.098	16	1	MCL	
8270D	Hexachlorobutadiene	87-68-3	µg/L			1.4	6.5	1.4	RSL	c
8270D	Hexachlorocyclopentadiene	77-47-4	µg/L		50		0.41	50	MCL	
8270D	Hexachloroethane	67-72-1	µg/L			3.3	6.2	3.3	RSL	c
8270D	Indeno[1,2,3-cd]pyrene	193-39-5	µg/L			2.5		2.5	RSL	c
8270D	Isophorone	78-59-1	µg/L			780	3800	780	RSL	c
8270D	Naphthalene	91-20-3	µg/L	30		1.7	6.1	30	WQCC	
8270D	Nitrobenzene	98-95-3	µg/L			1.4	13	1.4	RSL	c
8270D	N-Nitrosodimethylamine	62-75-9	µg/L			0.0011	0.055	0.0011	RSL	c
8270D	N-Nitrosodi-n-propylamine	621-64-7	µg/L			0.11		0.11	RSL	c
8270D	N-Nitrosodiphenylamine	86-30-6	µg/L			120		120	RSL	c

Table 3-1: Selected Groundwater Screening Values

Method	Analyte	CAS	Units	NM WQCC GW ¹	EPA MCL ²	EPA Tap Water RSL (carcinogens) ³	EPA Tap Water RSL (non- carcinogens) ⁴	Final Selected GSV ⁵	Final Selected GSV Reference	Risk Endpoint c/nc
8270D	Pentachlorophenol	87-86-5	µg/L	1	1	0.41	23	1	WQCC	
8270D	Phenanthrene	85-01-8	µg/L					NS		
8270D	Phenol	108-95-2	µg/L	5			5800	5	WQCC	
8270D	Pyrene	129-00-0	µg/L				120	120	RSL	nc
8270D	2,4,6-Tribromophenol (Surrogate)	118-79-6	%					NA		
8270D	2-Fluorobiphenyl ⁷	321-60-8	%					NA		
8270D	2-Fluorophenol ⁷	367-12-4	%					NA		
8270D	Nitrobenzene-d5 ⁷	4165-60-0	%					NA		
8270D	Terphenyl-d14 ⁷	1718-51-0	%					NA		
8330B	1,3,5-Trinitrobenzene	99-35-4	µg/L				590	590	RSL	nc
8330B	1,3-Dinitrobenzene	99-65-0	µg/L				2	2	RSL	nc
8330B	2,4,6-Trinitrotoluene	118-96-7	µg/L			25	9.8	9.8	RSL	nc
8330B	2,4-Dinitrotoluene	121-14-2	µg/L			2.4	38	2.4	RSL	c
8330B	2,6-Dinitrotoluene	606-20-2	µg/L			0.49	5.7	0.49	RSL	c
8330B	2-Amino-4,6-dinitrotoluene	35572-78-2	µg/L				39	39	RSL	nc
8330B	3,5-Dinitroaniline (surrogate nitroaniline, 4-)	618-87-1	µg/L			38	78	38	RSL	c
8330B	4-Amino-2,6-dinitrotoluene	19406-51-0	µg/L				39	39	RSL	nc
8330B	Octahydro-1,3,5,7-tetranitro- 1,3,5,7-tetrazocine (HMX)	2691-41-0	µg/L				1000	1000	RSL	nc
8330B	m-Nitrotoluene	99-08-1	µg/L				1.7	1.7	RSL	nc
8330B	Nitrobenzene	98-95-3	µg/L			1.4	13	1.4	RSL	c
8330B	Nitroglycerin	55-63-0	µg/L			45	2	2	RSL	nc
8330B	o-Nitrotoluene	88-72-2	µg/L			3.1	16	3.1	RSL	c

Table 3-1: Selected Groundwater Screening Values

Method	Analyte	CAS	Units	NM WQCC GW ¹	EPA MCL ²	EPA Tap Water RSL (carcinogens) ³	EPA Tap Water RSL (non-carcinogens) ⁴	Final Selected GSV ⁵	Final Selected GSV Reference	Risk Endpoint c/nc
8330B	Pentaerythritol tetranitrate (PETN)	78-11-5	µg/L			190	39	39	RSL	nc
8330B	p-Nitrotoluene	99-99-0	µg/L			43	71	43	RSL	c
8330B	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	µg/L			9.7	80	9.7	RSL	c
8330B	Trinitrophenylmethylnitramine (Tetryl)	479-45-8	µg/L				39	39	RSL	nc
8330B	1,2-Dinitrobenzene (Surrogate)	528-29-0	%					NA		
9056A	Nitrate as N	14797-55-8	mg/L	10	10		32	10	WQCC	
9056A	Nitrite as N	14797-65-0	mg/L		1		2	1	MCL	

Notes:

¹ FWDA screening value by NM WQCC standards per NMAC 20.6.2.3103.

² FWDA screening value by EPA drinking water primary MCL per 40 CFR Part 141 and Part 143.

³ Interim screening value for FWDA by EPA RSL tap water carcinogenic risk endpoint with cancer risk adjusted to 1×10^{-5} , updated May 2019.

⁴ Interim screening value for FWDA by EPA RSL tap water non-carcinogenic risk endpoint with hazard quotient of 1.0, updated May 2019.

⁵ Final selected GSV was based on the lowest of the NM WQCC and the EPA Region 6 MCL. If none then EPA RSL tap water was selected.

⁶ Analyte is considered an essential nutrient and risk in groundwater will not be evaluated.

⁷ Analyte is a laboratory surrogate used in analytical procedures, and risk in groundwater will not be evaluated.

Acronyms and Abbreviations:

µg/L = microgram per liter

c = carcinogenic

CAS = Chemical Abstracts Service registry number

CFR = Code of Federal Regulations

EPA = U.S. Environmental Protection Agency

FWDA = Fort Wingate Depot Activity

Table 3-1: Selected Groundwater Screening Values

GW = groundwater

GSV = groundwater screening value

MCL = maximum contaminant level (primary or secondary)

mg/L = milligram per liter

NA = not applicable (essential nutrients and laboratory surrogates used in analytical procedures)

nc = non-carcinogenic

NM = New Mexico

NMAC = New Mexico Administrative Code

NS = no standard

RSL = regional screening level

WQCC = Water Quality Control Commission

Table 4-1: Northern Area Groundwater Elevations (Wells Screened in Alluvial Sediments)

Well Name	TOC Elevation ^a	Total Depth ^b	Screen Interval ^b	January 2016	April 2016	July 2016	October 2016	January 2017	April 2017	July 2017		October 2017		January 2018		April 2018	
				Elevation	Elevation	Elevation	Elevation	Elevation	Elevation	DTW ^c	Elevation	DTW ^c	Elevation	DTW ^c	Elevation	DTW ^c	Elevation
BGMW01	6692.68	33.0	12.5-32.5	6673.37	6673.33	6672.81	6672.69	6673.06	6673.20	20.08	6672.60	20.22	6672.46	20.00	6672.68	19.78	6672.90
BGMW02	6691.99	34.0	13.5-33.5	6670.52	6670.64	6670.22	6669.83	6670.22	6670.57	21.82	6670.17	22.31	6669.68	22.03	6669.96	21.62	6670.37
BGMW03	6680.57	29.0	8.5-28.5	6663.86	6664.08	6663.04	6662.69	6663.44	6663.84	18.87	6661.70	17.97	6662.60	17.08	6663.49	16.63	6663.94
FW31	6832.49	50.0	10.0-50.0	6789.90	6789.84	6789.66	6789.57	NM	6789.66	43.00	6789.49	43.04	6789.45	43.10	6789.39	43.01	6789.48
FW35	6711.11	30.0	10.0-30.0	Dry	Dry	Dry	Dry	Dry	Dry	Dry	n/a	Dry	n/a	Dry	n/a	Dry	n/a
MW01	6685.94	55.0	33.6-53.6	6643.17	6642.99	6642.95	6642.92	6642.75	6642.79	43.28	6642.66	43.39	6642.55	43.44	6642.50	43.40	6642.54
MW02	6685.22	48.0	37.0-47.0	6644.25	6644.07	6644.07	6643.95	6643.80	6643.78	41.56	6643.66	41.69	6643.53	41.73	6643.49	41.76	6643.46
MW03	6689.53	53.0	43.0-53.0	6643.11	6642.88	6642.90	6642.66	6642.86	6642.80	46.92	6642.61	47.10	6642.43	46.96	6642.57	46.99	6642.54
MW18D	6686.32	59.9	47.0-57.0	6642.67	6642.44	6642.43	6642.28	6642.30	6642.25	44.20	6642.12	44.43	6641.89	44.32	6642.00	44.39	6641.93
MW18S	6686.61	39.0	27.0-37.0	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry
MW20	6687.67	59.4	47.0-57.0	6642.15	6642.06	6641.98	6641.85	6641.74	6641.85	45.95	6641.72	46.16	6641.51	46.15	6641.52	46.10	6641.57
MW22D	6684.55	58.6	47.0-57.0	6642.03	6641.88	6641.81	6641.63	6641.62	6641.63	43.06	6641.49	43.31	6641.24	43.40	6641.15	43.19	6641.36
MW22S	6684.69	43.5	31.0-41.0	6642.22	6642.08	6641.99	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry
MW23	6654.50	134.0	63.5-133.5	6639.52	6639.14	6639.46	6638.87	6639.13	6639.74	15.00	6639.50	15.40	6639.10	15.39	6639.11	15.51	6638.99
MW24	6657.08	66.5	16.0-66.0	6637.46	6637.14	6637.30	6636.45	6637.24	6637.79	19.81	6637.27	20.75	6636.33	18.56	6638.52	19.97	6637.11
SMW01	6669.94	50.2	29.9-49.9	6638.74	6638.53	6638.11	6637.83	6638.07	6637.14	32.30	6637.64	32.70	6637.24	32.37	6637.57	32.19	6637.75
TMW01	6711.84	60.0	44.0-59.0	6672.21	6671.90	6671.68	6671.43	6671.50	6671.18	40.85	6670.99	41.20	6670.64	41.30	6670.54	41.41	6670.43
TMW03	6702.43	70.1	49.8-69.8	6645.11	6645.03	6644.98	6644.93	6645.04	6644.87	57.61	6644.82	57.69	6644.74	57.75	6644.68	57.73	6644.70
TMW04	6700.86	70.5	50.0-70.0	6644.36	6644.17	6644.20	6644.15	6643.37	6644.13	56.80	6644.06	56.88	6643.98	56.89	6643.97	56.89	6643.97
TMW06	6690.63	57.0	45.0-55.0	6643.49	6643.11	6643.07	6643.12	6643.46	6643.05	47.67	6642.96	47.78	6642.85	47.71	6642.92	47.69	6642.94
TMW07	6690.47	76.0	65.0-75.0	6643.59	6643.52	6643.32	6643.47	6643.28	6643.49	47.86	6642.61	47.78	6642.69	47.68	6642.79	47.14	6643.33
TMW08	6680.31	62.0	30.0-60.0	6643.27	6642.93	6642.95	6642.74	6642.98	6642.73	37.70	6642.61	37.97	6642.34	37.74	6642.57	37.67	6642.64
TMW10	6680.04	65.0	28.0-58.0	6642.13	6641.88	6641.76	6641.54	6641.67	6641.67	38.56	6641.48	38.90	6641.14	38.77	6641.27	38.68	6641.36
TMW11	6718.28	82.0	55.0-80.0	6650.09	6650.06	6649.88	6649.89	6649.69	6649.32	68.74	6649.54	68.97	6649.31	69.05	6649.23	69.12	6649.16
TMW13	6707.49	72.5	60.7-70.7	6646.80	6646.74	6646.67	6646.53	6646.60	6646.49	61.02	6646.47	61.20	6646.29	61.23	6646.26	61.25	6646.24
TMW15	6713.89	82.0	56.0-71.0	6648.51	6648.47	6648.36	6648.19	6648.19	6648.15	65.83	6648.06	66.15	6647.74	66.07	6647.82	66.09	6647.80
TMW21	6695.14	72.0	48.0-58.0	6644.26	6644.09	6644.10	6644.06	6643.95	6644.02	51.18	6643.96	51.33	6643.81	51.36	6643.78	51.33	6643.81
TMW22	6691.74	77.0	52.0-62.0	6643.28	6642.91	6643.00	6643.25	6643.35	6642.98	48.90	6642.84	49.05	6642.69	48.81	6642.93	48.85	6642.89
TMW23	6687.66	72.0	46.0-56.0	6642.46	6642.11	6642.16	6642.09	6642.56	6642.17	45.64	6642.02	45.80	6641.86	45.61	6642.05	46.55	6641.11
TMW24	6680.42	75.0	44.0-54.0	6642.60	6642.37	6642.36	6642.20	6642.77	6642.43	38.12	6642.30	38.34	6642.08	38.09	6642.33	37.96	6642.46
TMW25	6672.88	74.0	42.5-52.5	6633.89	6633.78	6633.83	6633.63	6633.84	6633.80	39.21	6633.67	39.58	6633.30	39.37	6633.51	39.26	6633.62
TMW26	6677.71	64.8	45.0-55.0	6650.13	6650.41	6650.11	6649.60	NM	6649.98	27.89	6649.82	28.18	6649.53	28.07	6649.64	28.03	6649.68
TMW27	6668.13	102.2	60.0-70.0	6639.81	6639.88	6639.50	6639.39	6639.64	6639.74	28.53	6639.60	28.99	6639.14	28.79	6639.34	28.64	6639.49
TMW28	6689.17	72.5	37.0-47.0	6669.74	6669.82	6669.40	6668.86	6669.28	6670.53	19.62	6669.55	20.40	6668.77	20.19	6668.98	19.94	6669.23

Table 4-1: Northern Area Groundwater Elevations (Wells Screened in Alluvial Sediments)

Well Name	TOC Elevation ^a	Total Depth ^b	Screen Interval ^b	January 2016	April 2016	July 2016	October 2016	January 2017	April 2017	July 2017		October 2017		January 2018		April 2018	
				Elevation	Elevation	Elevation	Elevation	Elevation	Elevation	DTW ^c	Elevation	DTW ^c	Elevation	DTW ^c	Elevation	DTW ^c	Elevation
TMW29	6702.88	69.0	49.0-59.0	6645.22	6645.11	6645.10	6645.03	6645.12	6644.99	57.96	6644.92	58.07	6644.81	58.09	6644.79	58.13	6644.75
TMW31S	6710.20	61.0	50.0-60.0	6671.50	6671.09	6670.96	6670.60	6670.80	6670.38	40.03	6670.17	40.39	6669.81	40.40	6669.80	40.51	6669.69
TMW33	6686.60	60.4	37.0-57.0	6642.39	6642.17	6642.15	6641.97	6642.03	6641.97	44.79	6641.81	45.05	6641.55	44.93	6641.67	44.97	6641.63
TMW34	6687.29	57.3	37.0-57.0	6641.19	6641.15	6641.06	6640.92	6640.81	6640.91	46.44	6640.85	46.36	6640.93	46.34	6640.95	46.29	6641.00
TMW35	6686.52	55.0	35.0-55.0	6642.16	6642.00	6641.95	6641.79	6641.72	6641.76	44.86	6641.66	45.02	6641.50	45.03	6641.49	45.01	6641.51
TMW39S	6708.61	53.0	32.5-52.5	6672.21	6672.10	6671.91	6671.70	6671.72	6671.53	37.25	6671.36	37.47	6671.14	37.54	6671.07	37.52	6671.09
TMW40S	6706.40	60.5	50.0-60.0	6645.91	6645.82	6645.83	Dry	Dry	6645.72	60.70	6645.70	60.80	6645.60	60.80	6645.60	60.83	6645.57
TMW41	6705.21	66.0	55.5-65.5	6663.95	6663.47	6663.45	6663.21	6663.66	6663.19	42.28	6662.93	42.47	6662.74	42.43	6662.78	42.60	6662.61
TMW43	6698.63	78.5	58.0-78.0	6645.04	6644.84	6644.84	6644.79	6644.96	6644.77	53.92	6644.71	54.00	6644.63	54.06	6644.57	54.05	6644.58
TMW44	6697.31	64.0	43.5-63.5	6644.65	6644.28	6644.35	6644.29	6644.63	6644.27	53.12	6644.19	53.27	6644.04	53.17	6644.14	53.20	6644.11
TMW45	6689.00	59.0	38.5-58.5	6641.95	6641.70	6641.65	6641.71	6642.12	6641.82	47.21	6641.79	47.33	6641.67	47.27	6641.73	47.16	6641.84
TMW46	6680.98	59.0	38.5-58.5	6636.80	6636.74	6636.39	6636.41	6636.42	6636.64	44.48	6636.50	44.97	6636.01	44.86	6636.12	44.56	6636.42
TMW47	6701.88	103.0	82.5-102.5	6655.31	6655.19	6655.04	6655.00	6655.09	6655.01	47.08	6654.80	47.10	6654.78	47.20	6654.68	47.32	6654.56
PZ01	6677.29	43.1	23.1-43.1	6650.39	6650.05	6650.00	6649.69	6649.92	6649.68	27.80	6649.49	28.03	6649.26	28.02	6649.27	28.08	6649.21
PZ02	6674.95	50.7	30.3-50.3	6651.38	6651.25	6651.25	6650.68	6651.11	6650.93	24.21	6650.74	24.60	6650.35	24.41	6650.54	24.43	6650.52
PZ03	6679.44	46.9	26.7-46.7	6652.83	6653.00	6652.86	6652.42	6652.79	6652.81	26.86	6652.58	26.60	6652.84	26.75	6652.69	27.61	6651.83
PZ04	6676.68	47.0	26.8-46.8	6648.28	6647.98	6647.98	6647.61	NM	6647.65	29.25	6647.43	29.70	6646.98	29.38	6647.30	31.04	6645.64
PZ05	6674.15	46.3	26.0-46.0	6653.44	6653.45	6652.62	6652.09	6653.15	6653.18	21.69	6652.46	22.49	6651.66	21.54	6652.61	21.18	6652.97
PZ06	6676.04	46.7	26.5-46.5	6656.88	6657.09	6655.29	6654.91	6656.61	6657.06	21.14	6654.90	21.40	6654.64	19.83	6656.21	19.29	6656.75
PZ07	6684.53	30.5	10.6-30.6	6668.70	6668.82	6668.96	6668.54	6674.19	6672.70	14.46	6670.07	16.21	6668.32	16.87	6667.66	16.81	6667.72
PZ08	6686.81	46.6	26.3-46.3	6667.72	6667.75	6667.78	6667.32	6667.03	6672.32	18.01	6668.80	19.80	6667.01	20.32	6666.49	20.17	6666.64
PZ09	6653.61	33.5	18.1-33.1	6638.22	6638.26	6637.38	6636.79	6637.74	6638.35	16.46	6637.15	17.21	6636.40	16.44	6637.17	15.86	6637.75
PZ10	6657.27	46.3	31.0-46.0	6638.09	6638.13	6637.17	6636.63	6637.60	6638.21	20.34	6636.93	21.03	6636.24	20.20	6637.07	19.66	6637.61

Notes:

^aElevations are recorded in U.S. feet above North American Vertical Datum of 1988 (NAVD88).

^bTotal depths and screen intervals are recorded in feet below ground surface.

^cDTW is recorded in feet below TOC.

Acronyms and Abbreviations:

DTW = depth to water

n/a = not applicable

NM = not measured due to icy conditions

TOC = top of casing

Table 4-2: Northern Area Groundwater Elevations (Wells Screened in Bedrock)

Well Name	TOC Elevation ^a	Total Depth ^b	Screen Interval ^b	January 2016	April 2016	July 2016	October 2016	January 2017	April 2017	July 2017		October 2017		January 2018		April 2018	
				Elevation	Elevation	Elevation	Elevation	Elevation	Elevation	DTW ^c	Elevation	DTW ^c	Elevation	DTW ^c	Elevation	DTW ^c	Elevation
TMW02	6705.35	85.0	67.9-81.9	6649.53	6649.31	6648.59	6649.17	6649.41	6649.19	57.28	6648.07	56.39	6648.96	56.36	6648.99	56.43	6648.92
TMW14A	6723.54	110.0	94.3-109.3	6658.35	6658.34	6658.03	6658.04	6657.86	6657.55	65.77	6657.77	65.95	6657.59	66.31	6657.23	66.47	6657.07
TMW16	6714.15	142.0	123.0-138.0	6657.11	6656.94	6656.76	6656.59	6656.73	6656.60	57.75	6656.40	58.10	6656.05	58.20	6655.95	58.25	6655.90
TMW17	6719.89	152.0	112.0-127.0	6656.20	6655.99	6655.86	6655.75	6655.68	6655.70	64.99	6654.90	65.00	6654.89	65.13	6654.76	65.11	6654.78
TMW18	6713.49	220.0	150.0-160.0	6657.62	6657.47	6657.29	6657.19	6657.20	6657.15	56.38	6657.11	56.70	6656.79	56.95	6656.54	57.15	6656.34
TMW19	6700.52	187.0	169.0-184.0	6657.06	6656.79	6656.59	6656.49	6656.63	6656.62	44.37	6656.15	44.48	6656.04	44.55	6655.97	44.87	6655.65
TMW30	6714.59	51.5	35.0-45.0	6674.16	6674.01	6674.05	6674.01	6674.03	6674.00	40.52	6674.07	40.60	6673.99	40.58	6674.01	40.62	6673.97
TMW31D	6710.44	111.5	77.0-107.0	6671.38	6671.07	6670.87	6670.58	6670.10	6670.35	40.20	6670.24	40.65	6669.79	40.68	6669.76	40.78	6669.66
TMW32	6709.31	139.1	117.0-137.0	6668.18	6667.96	6667.74	6667.52	6667.55	6667.30	42.15	6667.16	42.14	6667.17	42.50	6666.81	42.65	6666.66
TMW36	6699.04	157.0	132.0-152.0	6670.00	6669.78	6669.45	6669.26	6669.27	6669.03	30.23	6668.81	30.67	6668.37	30.59	6668.45	30.92	6668.12
TMW37	6713.09	111.0	88.0-108.0	6666.29	6665.97	6665.84	6665.58	6663.64	6665.40	47.84	6665.25	48.25	6664.84	48.36	6664.73	48.35	6664.74
TMW38	6706.79	159.5	118.9-158.9	6658.89	6658.67	6658.51	6658.39	6658.55	6658.37	48.63	6658.16	48.71	6658.08	48.76	6658.03	48.79	6658.00
TMW39D	6708.61	100.5	70.0-100.0	6672.30	6671.99	6671.78	6671.50	6671.59	6671.24	37.50	6671.11	37.83	6670.78	37.90	6670.71	38.03	6670.58
TMW40D	6706.15	155.5	135.0-155.0	6672.13	6671.84	6671.65	6671.34	6671.41	6671.11	35.19	6670.96	35.49	6670.66	35.55	6670.60	35.75	6670.40
TMW48	6709.84	91.5	71.0-91.0	6672.27	6672.03	6671.86	6671.53	6671.56	6671.26	38.69	6671.15	38.97	6670.87	39.11	6670.73	39.24	6670.60
TMW49	6714.71	60.5	40.0-60.0	6669.08	6668.78	6668.57	6668.36	6668.36	6668.03	46.78	6667.93	47.09	6667.62	47.20	6667.51	47.33	6667.38
BGMW07	6691.63	256.0	215.0-255.0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	36.01	6655.62
BGMW08	6685.02	186.0	165.0-185.0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	179.36	6505.66
BGMW09	6692.27	173.0	106.0-136.0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	115.19	6577.08
BGMW10	6701.49	147.0	106.0-136.0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	30.49	6671.00

Notes:

^aElevations are recorded in U.S. feet above North American Vertical Datum of 1988 (NAVD88).

^bTotal depths and screen intervals are recorded in feet below ground surface.

^cDTW is recorded in feet below TOC.

Acronyms and Abbreviations:

DTW = depth to water

n/a = not applicable

TOC = top of casing

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Table 5-1: April 2018 Stable Groundwater Parameters

Well Name ^a	Screen Interval (ft bgs)	Purged Dry	Sample Date	Conductivity (mS/cm)	DO (mg/L)	Temp. (°C)	Turbidity (NTU)	Drawdown ^c (ft)
Northern Alluvial Groundwater Zone								
BGMW01	12.5 - 32.5	No	4/27/2018	3.60	0.00	17.20	178	0.03
BGMW02	13.5 - 33.5	No	4/26/2018	4.87	9.40	12.04	8.0	0.08
BGMW03	8.5 - 28.5	Yes	4/24/2018	5.43	11.58	12.15	92.1	N/A
BGMW03 ^d	8.5 - 28.5	Yes	4/27/2018	4.97	7.93	16.59	117	N/A
FW31	10.0 - 50.0	Yes	4/23/2018	1.85	5.84	18.13	161	N/A
FW35	10.0 - 30.0	Dry						
MW01	33.6 - 53.6	Yes	4/23/2018	1.43	11.28	29.49	828	N/A
MW02	37.0 - 47.0	Yes	4/23/2018	3.22	10.78	18.17	328	N/A
MW03	43.0 - 53.0	No	4/27/2018	5.01	7.60	14.91	2.3	0.42
MW18D	47.0 - 57.0	Yes	4/25/2018	6.41	8.70	14.75	143	N/A
MW18S	27.0-37.0	Dry						
MW20	47.0 - 57.0	No	4/30/2018	11.9	3.27	15.26	1.4	0.04
MW22D	47.0 - 57.0	No	4/27/2018	4.77	0.36	17.24	0.0	0
MW22D ^d	47.0 - 57.0	No	5/3/2018	4.60	0.00	14.83	0.0	0.01
MW22S	31.0 - 41.0	Dry						
MW23	63.5 - 133.5	No	4/24/2018	1.17	15.75	10.79	0.0	N/A
MW24	16.0 - 66.0	No	4/23/2018	0.801	0.00	12.71	4.9	N/A
SMW01	29.9 - 49.9	No	4/26/2018	4.06	0.00	15.55	1.2	0.77
TMW01	44.0 - 59.0	No	5/4/2018	2.95	0.67	10.98	0.0	0.09
TMW03	49.8 - 69.8	No	4/30/2018	4.30	0.00	16.36	0.0	0
TMW04	50.0 - 70.0	No	5/2/2018	4.01	0.00	10.94	0.0	0.07
TMW06	45.0 - 55.0	No	4/30/2018	3.69	0.37	15.94	0.0	0
TMW07	65.0 - 75.0	Yes	4/25/2018	7.60	10.07	16.29	59.1	N/A
TMW08	30.0 - 60.0	No	4/27/2018	13.4	0.00	14.16	0.0	0
TMW10	28.0 - 58.0	Yes	4/24/2018	6.12	10.62	14.56	114	N/A
TMW10 ^d	28.0 - 58.0	Yes	4/27/2018	6.62	11.59	12.16	167	N/A
TMW11	55.0 - 80.0	No	5/2/2018	2.34	1.94	11.18	20.30	1.54
TMW13	60.7 - 70.7	No	5/1/2018	1.07	1.06	14.22	0.0	0.17
TMW15	56.0 - 71.0	No	5/3/2018	2.19	1.15	13.03	1.2	0.13
TMW21	48.0 - 58.0	Yes	5/1/2018	1.41	2.86	15.68	279	N/A
TMW22	52.0 - 62.0	Yes	4/25/2018	3.92	0.00	14.15	67.2	N/A
TMW23	46.0 - 56.0	Yes	4/25/2018	4.63	9.71	16.66	229	N/A
TMW24	44.0 - 54.0	No	4/30/2018	4.30	0.00	16.82	0.0	0.84
TMW25	42.5 - 52.5	No	4/30/2018	3.74	0.01	15.98	0.3	0.1
TMW26	45.0 - 55.0	No	4/26/2018	3.46	0.00	13.60	14.7	0.01
TMW27	60.0 - 70.0	No	4/26/2018	1.41	0.00	13.52	0.0	0.86
TMW28	37.0 - 47.0	No	4/26/2018	1.98	0.27	15.91	0.0	0.59
TMW29	49.0 - 59.0	Yes	4/23/2018	1.60	1.48	16.05	300	N/A
TMW31S	50.0 - 60.0	Yes	4/25/2018	2.67	12.08	19.18	33.6	N/A
TMW33	37.0 - 57.0	Yes	4/25/2018	8.76	9.81	15.9	77	N/A
TMW34	37.0 - 57.0	No	4/27/2018	5.95	9.30	15.14	205	N/A

Table 5-1: April 2018 Stable Groundwater Parameters

Well Name ^a	Screen Interval (ft bgs)	Purged Dry	Sample Date	Conductivity (mS/cm)	DO (mg/L)	Temp. (°C)	Turbidity (NTU)	Drawdown ^c (ft)
TMW35	35.0 - 55.0	No	4/27/2018	5.54	0.00	17.91	0.0	0.03
TMW39S	32.5 - 52.5	Yes	4/25/2018	3.97	15.96	20.00	976	N/A
TMW40S ^e	50.0 - 60.0	Yes	4/25/2018	3.48	8.46	16.18	0.0 ^f	N/A
TMW41	55.5 - 65.5	Yes	4/25/2018	3.14	7.91	18.76	212	N/A
TMW43	58.0 - 78.0	No	5/2/2018	2.48	0.00	11.90	0.0	0.03
TMW44	43.5 - 63.5	Yes	4/25/2018	3.36	0.00	15.00	58.4	N/A
TMW45	38.5 - 58.5	No	5/2/2018	3.71	0.00	10.90	0.0	0.01
TMW46	38.5 - 58.5	Yes	4/25/2018	5.35	7.98	13.91	207	N/A
TMW47	82.5 - 102.5	No	5/3/2018	2.36	0.00	10.00	2.3	1.32
Northern Bedrock Groundwater Zone								
BGMW07	215.0-255.0	No	4/26/2018	8.84	8.17	19.34	82.8	N/A
BGMW08	165.0-185.0	Yes	Well was dry and was not sampled					
BGMW09	106.0-136.0	Yes	5/1/2018	5.05	7.87	16.41	0.0 ^f	N/A
BGMW10	106.0-136.0	Yes	4/27/2018	2.66	1.17	13.26	107	N/A
TMW02	67.9 - 81.9	No	5/1/2018	4.71	0.34	13.04	0.0	0.05
TMW14A	94.25 - 109.25	No	5/3/2018	1.91	0.00	11.48	3.6	2.22
TMW18	150.0 - 160.0	Yes	4/25/2018	2.85	2.50	16.91	8.9	N/A
TMW19	169.0 - 184.0	Yes	4/25/2018	2.42	9.33	16.00	342	N/A
TMW30	35.0 - 45.0	Yes	4/26/2018	1.57	2.89	15.99	53.3	N/A
TMW31D	77.0 - 107.0	No	5/2/2018	2.70	2.59	11.92	0.0	0.01
TMW32	117.0 - 137.0	No	5/1/2018	1.51	0.00	15.13	0.0	0.13
TMW36	132.0 - 152.0	Yes	4/25/2018	2.94	7.02	12.73	52.2	N/A
TMW37	88.0 - 108.0	Yes	4/25/2018	3.06	8.02	13.15	102	N/A
TMW38	118.9 - 158.9	No	5/1/2018	4.39	0.00	14.47	0.0	0.81
TMW39D	70.0 - 100.0	No	5/3/2018	3.43	0.00	13.38	2.6	0.16
TMW40D	135.0 - 155.0	No	5/1/2018	3.17	0.00	14.22	0.0	0.04
TMW48	71.0 - 91.0	No	5/2/2018	2.94	0.00	11.47	0.4	0.03
TMW49	40.0 - 60.0	No	5/4/2018	3.13	3.39	11.57	0.0	0.29

Notes:

^a Anomalous field parameter readings occurred at some sample locations during purging but are not expected to affect sampling results.

^b Eh is calculated from the ORP field reading and the water temperature using manufacturer specifications. The formula for converting ORP to Eh is:

$$Eh = ORP \text{ measured} + Eh \text{ reference} = ORP \text{ measured} + 206 - 0.7 * (\text{temperature} - 25)$$

^c Drawdown is measured as the change in water level from initial measurement to final field reading on the day of well purging.

^d BGMW03, MW22D, and TMW10 were resampled for nitrate/nitrite (EPA Method 9056A) due to laboratory error on 4/27/18, 5-3/18, and 4/27/18 respectively.

Table 5-1: April 2018 Stable Groundwater Parameters

^e TMW40S was sampled over 3 days—4/25/18 through 4/27/18—due to significantly slow recharge and very little water present at the time of sampling. Parameters in Table 5-1 are from the most recently recorded purge, which occurred on 4/24/18.

^f Reading of 0.0 NTU is likely anomalous, and indicates the turbidity of the water exceeded the maximum range of 1,000 NTU for the Horiba U-52 used to collect data.

References:

Horiba Instruments, Inc., 2014. “Electrical Potential of Reference Electrode.”

Water Quality Analyzer website. Water Quality Analyzer. Accessed January 16, 2014.

Matsushita, H., H. Maruyama, T. Aomi, and N. Ishikawa, 1974. “Silver-Silver Chloride Electrode Prepared Using Molten Silver Chloride.” *Memoirs of Chubu Institute of Technology*. Vol. 10-A: pp. 117 122.

Acronyms and Abbreviations:

°C = degree Celsius

bgs = below ground surface

DO = dissolved oxygen

Eh = reduction potential

EPA = U.S. Environmental Protection Agency

ft = foot

mg/L = milligram per liter

mS/cm = millisiemens per centimeter

mV = millivolt

N/A = not applicable; drawdown measurements are not applicable for casing volume purging method, and Eh values are not calculated from anomalous ORP.

NTU = nephelometric turbidity unit

ORP = oxidation-reduction potential

pH = hydrogen (ion) concentration

SU = standard unit

Temp. = temperature

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Table 5-2: Summary of Nitrate-N and Nitrite-N Analytical Results (mg/L)

			Nitrate-N	Nitrite-N
			CAS 14797-55-8	CAS 14797-65-0
Well	Sample	Sample	Screening	Value (mg/L) ^a
Name	Identifier	Date	10.0 ^b	1.0 ^c
Northern Alluvial Groundwater Zone				
BGMW01	BGMW01042018	4/27/18	0.10 U	0.10 U
	BGMW01102017	10/23/17	0.10 U	0.10 U
	BGMW01042017	4/24/17	0.097 J	0.10 U
	BGMW01102016	11/2/16	0.10 U	0.10 U
BGMW02	BGMW02042018	4/26/18	14	0.20 U
	BGMW02102017	10/20/17	13	0.10 U
	BGMW02042017	4/21/17	15 J	0.10 U
	BGMW02102016	11/2/16	13	0.20 U
BGMW03	BGMW03042018	4/24/18	2.1 J	0.10 UJ
	BGMW030420182	4/27/18	2.2	0.71
	BGMW03102017	10/19/17	3.1	0.51
	BGMW03042017	4/20/17	2.6	0.055 J
	BGMW03102016	10/28/16	3.1	0.42 J
FW31	FW31042018	4/23/18	0.10 U	0.10 U
	FW31102017	10/18/17	0.054 J	0.10 U
	FW31042017	4/17/17	0.078 J	0.10 UJ
	FW31102016	10/26/16	0.10 U	0.10 U
FW35	Well has been dry since 2015		Well was dry and was not sampled	
MW01	MW01042018	4/23/18	6.2	0.10 U
	MW01102017	10/24/17	6.6	0.10 U
	MW01042017	4/19/17	7.0	0.10 U
	MW01102016	10/27/16	7.9	0.10 U
MW02	MW02042018	4/23/18	3.1	0.10 U
	MW020420182	4/27/18	3.0	0.10 U
	MW02102017	10/24/17	3.7	0.10 U
	MW02042017	4/19/17	3.9	0.10 U
	MW02102016	10/28/16	4.6	0.10 U
MW03	MW03042018	4/27/18	6.8	0.10 U
	MW03102017	10/23/17	6.8	0.10 U
	MW03042017	4/21/17	7.1 J	0.10 U
	MW03102016	11/3/16	6.2	0.20 U
MW18D	MW18D042018	4/25/18	0.12 J	0.10 U
	MW18D102017	10/19/17	0.10 U	0.10 U
	MW18D042017	4/20/17	0.20 U	0.20 U
	MW18D102016	10/28/16	0.20 U	0.20 U
MW18S	Well has been dry since 2011		Well was dry and was not sampled	

Table 5-2: Summary of Nitrate-N and Nitrite-N Analytical Results (mg/L)

Well Name	Sample Identifier	Sample Date	Nitrate-N CAS 14797-55-8	Nitrite-N CAS 14797-65-0
			Screening 10.0 ^b	Value (mg/L) ^a 1.0 ^c
MW20	MW20042018	4/30/18	8.4	0.50 U
	MW20102017	10/23/17	8.4	2.8
	MW20042017	4/24/17	6.5	0.50 U
	MW20102016	11/4/16	3.9	0.50 U
MW22D	MW22D042018	4/27/18	25	0.10 U
	MW22D0420182	5/3/18	25	0.10 U
	MW22D102017	10/23/17	25	0.10 U
	MW22D042017	4/19/17	27	0.20 U
	MW22D102016	10/28/16	27	0.20 U
MW22S	MW22S042018	04/2018	Well was dry and not sampled	
	MW22S102017	10/1/17	Well was dry and not sampled	
	MW22S042017	04/2017	Well was dry and not sampled	
	MW22S102016	10/2016	Well was dry and not sampled	
MW23	MW23042018	4/24/18	0.10 UJ	0.10 UJ
	MW23042018FD ^d	4/24/18	0.10 UJ	0.10 UJ
	MW23102017	10/18/17	0.084 J	0.10 U
	MW23102017FD ^d	10/18/17	0.069 J	0.10 U
	MW23042017	4/18/17	0.10 U	0.12 J
	DMW23042017 ^d	4/18/17	0.10 U	0.12 J
	MW23102016	10/27/16	0.10 U	0.092 J
MW24	MW24042018	4/23/18	0.10 U	0.10 U
	MW24042018FD ^d	4/23/18	0.10 U	0.10 U
	MW24102017	10/17/17	0.10 U	0.10 U
	MW24102017FD 01 ^d	10/17/17	0.10 U	0.10 U
	MW24042017	4/17/17	0.10 UJ	0.10 UJ
	DMW24042017 ^d	4/17/17	0.10 UJ	0.10 UJ
	MW24102016	10/26/16	0.10 U	0.10 U
	DMW24102016 ^d	10/26/16	0.10 U	0.10 U
SMW01	SMW01042018	4/26/18	0.20 U	0.20 U
	SMW01102017	10/20/17	0.10 U	0.10 U
	SMW01042017	4/21/17	0.10 U	0.10 U
	SMW01102016	11/2/16	0.058 J	0.10 U
TMW01	TMW01042018	5/4/18	9.8	0.10 U
	TMW01102017	10/27/17	9.9	0.10 U
	TMW01042017	4/25/17	9.7	0.10 U
	TMW01102016	10/31/16	9.6	0.10 U
TMW03	TMW03042018	4/30/18	120	0.27 J
	TMW03102017	10/25/17	120	0.49 J
	TMW03042017	4/24/17	130	0.46 J
	TMW03102016	10/31/16	130	0.37 J

Table 5-2: Summary of Nitrate-N and Nitrite-N Analytical Results (mg/L)

Well Name	Sample Identifier	Sample Date	Nitrate-N CAS 14797-55-8	Nitrite-N CAS 14797-65-0
			Screening 10.0 ^b	Value (mg/L) ^a 1.0 ^c
TMW04	TMW04042018	5/2/18	44	0.10 U
	TMW04102017	10/25/17	49	0.10 U
	TMW04042017	4/24/17	47	0.10 U
	TMW04102016	11/3/16	40	0.10 U
TMW06	TMW06042018	4/30/18	11	0.10 U
	TMW06102017	10/17/17	13	0.10 U
	TMW06042017	4/20/17	13 J	0.10 U
	TMW06102016	10/31/16	13	0.10 U
TMW07	TMW07042018	4/25/18	0.15 J	0.10 U
	TMW07102017	10/19/17	0.20 U	0.20 U
	TMW07042017	4/20/17	0.20 U	0.20 U
	TMW07102016	10/27/16	0.20 U	0.20 U
TMW08	TMW08042018	4/27/18	4.3	3.7
	TMW08102017	10/20/17	4.4	0.20 U
	TMW08042017	4/21/17	0.50 U	0.50 U
	TMW08102016	11/1/16	3.5	0.94 J
	DTW08102016 ^d	11/1/16	3.6	0.80 J
TMW10	TMW10042018	4/24/18	0.10 UJ	0.10 UJ
	TMW100420182	4/27/18	0.16 J	0.20 U
	TMW10102017	10/25/17	0.20 U	0.20 U
	TMW10042017	4/21/17	0.20 U	0.20 U
	TMW10102016	11/2/16	0.20 U	0.20 U
TMW11	TMW11042018	5/2/18	1.3	0.10 U
	TMW11102017	10/27/17	3.4	0.10 U
	TMW11042017	4/26/17	1.3	0.10 U
	TMW11102016	11/3/16	0.5	0.10 U
	DTW11102016 ^d	11/3/16	0.5	0.10 U
TMW13	TMW13042018	5/1/18	5.8	0.10 U
	TMW13102017	10/26/17	5.7	0.10 U
	TMW13042017	4/25/17	5.5	0.10 U
	TMW13102016	11/1/16	5.2	0.10 U
TMW15	TMW15042018	5/3/18	4.1	0.10 U
	TMW15042018FD ^d	5/3/18	4.1	0.10 U
	TMW15102017	10/26/17	4.8	0.10 U
	TMW15102017FD ^d	10/26/17	4.8	0.10 U
	TMW15042017	4/27/17	5.6	0.10 U
	DTW15042017 ^d	4/27/17	5.6	0.10 U
	TMW15102016	11/2/16	5.8	0.10 U

Table 5-2: Summary of Nitrate-N and Nitrite-N Analytical Results (mg/L)

Well Name	Sample Identifier	Sample Date	Nitrate-N	Nitrite-N
			CAS 14797-55-8	CAS 14797-65-0
			Screening	Value (mg/L) ^a
			10.0 ^b	1.0 ^c
TMW21	TMW21042018	5/1/18	9.6	0.10 U
	TMW21102017	10/25/17	9.2	0.10 U
	TMW21042017	4/26/17	9.2	0.10 U
	TMW21102016	10/27/16	9.6	0.10 U
TMW22	TMW22042018	4/25/18	11	0.10 U
	TMW22102017	10/25/17	13	0.091 J
	TMW22042017	4/19/17	12	0.10 U
	TMW22102016	10/27/16	16	0.10 U
TMW23	TMW23042018	4/25/18	27	0.10 U
	TMW23102017	10/19/17	29	0.10 U
	TMW23042017	4/20/17	29 J	0.10 U
	TMW23102016	10/28/16	27	0.089 J
TMW24	TMW24042018	4/30/18	0.10 U	0.10 U
	TMW24102017	10/24/17	0.10 U	0.10 U
	TMW24042017	4/25/17	0.10 U	0.10 U
	TMW24102016	11/3/16	0.20 U	0.20 U
TMW25	TMW25042018	4/30/18	0.35 J	0.10 U
	TMW25102017	10/25/17	0.4 J	0.10 U
	TMW25042017	4/27/17	0.46 J	0.10 U
	TMW25102016	11/1/16	0.45 J	0.10 U
TMW26	TMW26042018	4/26/18	0.10 U	0.10 U
	TMW26042018FD ^d	4/26/18	0.10 U	0.10 U
	TMW26102017	10/17/17	0.10 U	0.10 U
	TMW26102017FD ^d	10/17/17	0.10 U	0.10 U
	TMW26042017	4/20/17	0.044 J	0.10 U
	DTW26042017 ^d	4/20/17	0.10 U	0.10 U
	TMW26102016	11/1/16	0.10 U	0.10 U
TMW28	TMW28042018	4/26/18	0.10 U	0.10 U
	TMW28102017	10/20/17	0.058 J	0.10 U
	TMW28042017	4/24/17	0.10 U	0.10 U
	TMW28102016	11/3/16	0.12 J	0.10 U
TMW29	TMW29042018	4/23/18	2.9	0.10 U
	TMW29102017	10/20/17	2.8	0.10 U
	TMW29042017	4/20/17	2.7	0.10 U
	TMW29102016	10/28/16	2.8	0.10 U
TMW31S	TMW31S042018	4/25/18	7.9 J	0.10 U
	TMW31S102017	10/25/17	7.8	0.10 U
	TMW31S042017	4/19/17	7.1	0.10 U
	TMW31S102016	10/27/16	8.2	0.10 U

Table 5-2: Summary of Nitrate-N and Nitrite-N Analytical Results (mg/L)

Well Name	Sample Identifier	Sample Date	Nitrate-N CAS 14797-55-8	Nitrite-N CAS 14797-65-0
			Screening 10.0 ^b	Value (mg/L) ^a 1.0 ^c
TMW33	TMW33042018	4/25/18	0.12 J	0.10 U
	TMW33102017	10/20/17	0.20 U	0.20 U
	TMW33042017	4/20/17	0.50 U	0.50 U
	TMW33102016	10/28/16	2.1 J	0.50 U
TMW34	TMW34042018	4/27/18	77	0.20 U
	TMW34042018FD ^d	4/27/18	67 J	0.20 U
	TMW34102017	10/25/17	64	0.20 U
	TMW34102017FD ^d	10/25/17	65	0.20 U
	TMW34042017	4/24/17	71	0.20 U
	DTW34042017 ^d	4/24/17	71	0.20 U
	TMW34102016	11/1/16	71	0.20 U
TMW35	TMW35042018	4/27/18	8.3	0.20 U
	TMW35102017	10/23/17	8.4	0.20 U
	TMW35042017	4/24/17	9.6	0.10 U
	TMW35102016	10/31/16	10	0.20 U
	DTW35102016 ^d	10/31/16	10	0.20 U
TMW39S	TMW39S042018	4/25/18	9.2	0.10 U
	TMW39S102017	10/18/17	9.1	0.10 U
	TMW39S042017	4/19/17	9.4	0.10 U
	TMW39S102016	10/27/16	9.7	0.10 U
TMW40S	TMW40S042018	4/27/18	140	0.38 J
	TMW40S102017	10/27/17	140	0.44 J
	TMW40S042017	4/21/17	130	0.32 J
	TMW40S102016	10/2016	Well was dry and was not sampled	
TMW41	TMW41042018	4/25/18	5.2	0.10 U
	TMW41102017	10/25/17	5.4	0.10 U
	TMW41042017	4/19/17	5.7	0.10 U
	TMW41102016	10/27/16	6.4	0.10 U
TMW43	TMW43042018	5/2/18	8.0	0.10 U
	TMW43042018FD ^d	5/2/18	7.9	0.10 U
	TMW43102017	10/24/17	8.2	0.10 U
	TMW43102017FD ^d	10/24/17	8	0.10 U
	TMW43042017	4/27/17	8.4	0.10 U
	DTW43042017 ^d	4/27/17	8.7	0.10 U
	TMW43102016	11/3/16	7.5	0.10 U
	DTW43102016 ^d	11/3/16	7.4	0.10 U
TMW44	TMW44042018	4/25/18	50	0.10 U
	TMW44102017	10/25/17	51	0.10 U
	TMW44042017	4/19/17	52	0.10 U
	TMW44102016	10/27/16	54	0.10 U

Table 5-2: Summary of Nitrate-N and Nitrite-N Analytical Results (mg/L)

Well Name	Sample Identifier	Sample Date	Nitrate-N	Nitrite-N
			CAS 14797-55-8	CAS 14797-65-0
			Screening	Value (mg/L) ^a
			10.0 ^b	1.0 ^c
TMW45	TMW45042018	5/2/18	1.0	0.10 U
	TMW45102017	10/27/17	0.91	0.10 U
	TMW45042017	4/28/17	0.93	0.10 U
	TMW45102016	11/4/16	0.5	0.10 U
	DTW45102016 ^d	11/4/16	0.5	0.10 U
TMW46	TMW46042018	4/25/18	78	0.10 U
	TMW46102017	10/25/17	80	0.20 U
	TMW46042017	4/20/17	84 J	0.20 U
	TMW46102016	10/28/16	84	0.20 U
TMW47	TMW47042018	5/3/18	0.10 U	0.10 U
	TMW47102017	10/26/17	0.10 U	0.10 U
	TMW47042017	4/25/17	0.10 U	0.10 U
	TMW47102016	11/4/16	0.10 U	0.10 U
Northern Bedrock Groundwater Zone				
BGMW07	BGMW07042018	4/26/18	0.50 U	0.50 U
BGMW08	BGMW08042018	04/2018	Well was dry and not sampled	
BGMW09	BGMW09042018	5/1/18	0.20 U	0.20 U
BGMW10	BGMW10042018	4/27/18	0.087 J	0.10 U
TMW02	TMW02042018	5/1/18	88	0.10 U
	TMW02102017	10/24/17	86	0.10 U
	TMW02042017	4/24/17	94	0.10 U
	TMW02102016	11/1/16	90	0.20 U
TMW14A	TMW14A042018	5/3/18	0.10 U	0.10 U
	TMW14A102017	10/26/17	0.10 U	0.10 U
	TMW14A042017	4/27/17	0.10 U	0.10 U
	TMW14A102016	11/3/16	0.10 J	0.10 U
TMW17	TMW17042018	5/3/18	0.10 U	0.10 U
	TMW17102017	10/26/17	0.10 U	0.10 U
	TMW17042017	4/27/17	0.10 U	0.10 U
	TMW17102016	11/4/16	0.10 U	0.10 U
TMW18	TMW18042018	4/25/18	0.32 J	0.14 J
	TMW18102017	10/19/17	0.10 U	0.10 U
	TMW18042017	4/20/17	0.046 J	0.10 U
	TMW18102016	10/28/16	0.10 U	0.10 U
TMW30	TMW30042018	4/26/18	15	0.10 U
	TMW30102017	10/25/17	16	0.10 U
	TMW30042017	4/19/17	16	0.10 U
	TMW30102016	10/26/16	15	0.10 U

Table 5-2: Summary of Nitrate-N and Nitrite-N Analytical Results (mg/L)

Well Name	Sample Identifier	Sample Date	Nitrate-N CAS 14797-55-8	Nitrite-N CAS 14797-65-0
			Screening 10.0 ^b	Value (mg/L) ^a 1.0 ^c
TMW31D	TMW31D042018	5/2/18	14	0.10 U
	TMW31D042018FD ^d	5/2/18	14	0.10 U
	TMW31D102017	10/26/17	14	0.10 U
	TMW31D102017FD ^d	10/26/17	14	0.10 U
	TMW31D042017	4/27/17	14	0.10 U
	DTW31D042017 ^d	4/27/17	14	0.10 U
	TMW31D102016	10/31/16	15	0.10 U
	DTW31D102016 ^d	10/31/16	15	0.10 U
TMW32	TMW32042018	5/1/18	3.0	0.44 J
	TMW32102017	10/20/17	2.5	0.21 J
	TMW32042017	4/27/17	2.3	0.31 J
	TMW32102016	11/2/16	2	0.40 J
TMW36	TMW36042018	4/25/18	0.10 U	0.10 U
	TMW36102017	10/19/17	0.18 U	0.10 U
	TMW36042017	4/20/17	0.10 U	0.10 U
	TMW36102016	10/27/16	0.10 U	0.10 U
TMW37	TMW37042018	4/25/18	0.10 U	0.10 U
	TMW37102017	10/20/17	0.10 U	0.10 U
	TMW37042017	4/20/17	0.10 U	0.10 U
	TMW37102016	10/27/16	0.10 U	0.10 U
TMW38	TMW38042018	5/1/18	0.10 U	0.10 U
	TMW38102017	10/26/17	0.10 U	0.10 U
	TMW38042017	4/26/17	0.10 U	0.10 U
	TMW38102016	11/4/16	0.10 U	0.10 U
TMW39D	TMW39D042018	5/3/18	0.11 J	0.10 U
	TMW39D102017	10/27/17	0.45 J	0.10 U
	TMW39D042017	4/27/17	0.10 U	0.10 U
	TMW39D102016	10/31/16	1.4	0.10 U
TMW40D	TMW40D042018	5/1/18	2.1	0.38 J
	TMW40D102017	10/23/17	2	0.10 U
	TMW40D042017	4/25/17	1.9	0.27 J
	TMW40D102016	10/31/16	2.1	0.20 J
TMW48	TMW48042018	5/2/18	12	0.10 U
	TMW48102017	10/27/17	12	0.10 U
	TMW48042017	4/26/17	14	0.10 U
	TMW48102016	11/1/16	13	0.065 J
TMW49	TMW49042018	5/4/18	5.9	0.10 U
	TMW49102017	10/27/17	5.6	0.10 U
	TMW49042017	4/26/17	6.1	0.10 U
	TMW49102016	11/2/16	5.5	0.10 U

Table 5-2: Summary of Nitrate-N and Nitrite-N Analytical Results (mg/L)

Notes:

^a Nitrate and nitrite are analyzed using EPA Method 9056A.

^b New Mexico Water Quality Control Commission standard - NMAC 20.6.2.3103

^c EPA maximum contaminant level is 1.0 mg/L.

^d Indicates a field duplicate sample.

Bolded values indicate analyte was positively detected above screening values.

Acronyms and Abbreviations:

CAS = Chemical Abstracts Service

EPA = U.S. Environmental Protection Agency

J = (Estimated) The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to nonconformances discovered during data validation.

N = nitrogen

NS = not sampled

NMAC = New Mexico Administrative Code

U = (Non-detected) The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).

UJ = (Non-detected estimated) The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.

Table 5-3: Summary of Explosives Analytical Results (µg/L)

			1,3,5-Trinitro-benzene	1,3-Dinitro-benzene	2,4,6-Trinitro-toluene	2,4-Dinitro-toluene	2,6-Dinitro-toluene	2-Amino-4,6-Dinitro-toluene	2-Nitro-toluene	3,5-Dinitro-aniline	3-Nitro-toluene	4-Amino-2,6-Dinitro-toluene	4-Nitro-toluene	HMX	Nitro-benzene	Nitro-glycerine*	PETN	RDX	Tetryl
			CAS 99-35-4	CAS 99-65-0	CAS 118-96-7	CAS 121-14-2	CAS 606-20-2	CAS 35572-78-2	CAS 88-72-2	CAS 618-87-1	CAS 99-08-1	CAS 19406-51-0	CAS 99-99-0	CAS 2691-41-0	CAS 98-95-3	CAS 55-63-0	CAS 78-11-5	CAS 121-82-4	CAS 479-45-8
Well Name	Sample Identifier	Sample Date	Screening Value (µg/L) ^{a,b}																
			590	2.0	9.8	2.4	0.49	39	3.1	38	1.7	39	43	1000	1.4	2	39	9.7	39
Northern Alluvial Groundwater Zone																			
BGMW01	BGMW01042018	4/27/18	0.51 UJ	0.26 UJ	0.26 UJ	0.26 U	0.26 UJ	0.15 UJ	0.26 UJ	0.39 UJ	0.26 UJ	0.15 UJ	0.51 UJ	0.26 UJ	0.26 UJ	2.6 UJ	1.5 UJ	0.15 UJ	0.26 UJ
	BGMW01102017	10/23/17	0.47 U	0.23 U	0.23 U	0.23 U	0.23 U	0.14 U	0.23 U	0.35 U	0.23 U	0.14 U	0.47 U	0.23 U	0.23 U	2.3 U	1.4 U	0.14 U	0.23 U
	BGMW01042017	4/24/17	0.47 U	0.24 U	0.24 U	0.24 U	0.24 U	0.14 U	0.24 U	0.35 U	0.24 U	0.14 U	0.47 U	0.24 U	0.24 U	2.4 U	1.4 U	0.14 U	0.24 U
	BGMW01102016	11/2/16	0.49 U	0.25 U	0.25 U	0.25 U	0.25 U	0.15 U	0.25 U	0.37 U	0.25 U	0.15 UJ	0.49 U	0.25 U	0.25 U	2.5 U	1.5 U	0.15 U	0.25 U
BGMW02	BGMW02042018	4/26/18	0.49 U	0.24 U	0.24 U	0.24 U	0.24 U	0.15 UJ	0.24 U	0.37 U	0.24 U	0.15 UJ	0.49 U	0.24 U	0.24 U	2.4 U	1.5 U	0.15 U	0.24 U
	BGMW02102017	10/20/17	0.46 U	0.23 U	0.23 U	0.23 U	0.23 U	0.14 U	0.23 U	0.34 U	0.23 U	0.14 U	0.46 U	0.23 U	0.23 U	2.3 U	1.4 U	0.14 U	0.23 U
	BGMW02042017	4/21/17	0.48 U	0.24 U	0.24 U	0.24 U	0.24 U	0.14 U	0.24 U	0.36 U	0.24 U	0.14 U	0.48 U	0.24 U	0.24 U	2.4 U	1.4 U	0.14 U	0.24 U
	BGMW02102016	11/2/16	0.45 U	0.23 U	0.23 U	0.23 U	0.23 U	0.14 U	0.23 U	0.34 U	0.23 U	0.14 U	0.45 U	0.23 U	0.23 U	2.3 U	1.4 U	0.14 U	0.23 U
BGMW03	BGMW03042018	4/24/18	0.47 UJ	0.23 UJ	0.23 UJ	0.23 UJ	0.23 UJ	0.14 UJ	0.23 UJ	0.35 UJ	0.23 UJ	0.14 UJ	0.47 UJ	0.23 UJ	0.23 UJ	2.3 UJ	1.4 UJ	0.14 UJ	0.23 UJ
	BGMW03102017	10/19/17	0.48 U	0.24 U	0.24 U	0.24 UJ	0.24 UJ	0.14 UJ	0.24 UJ	0.36 U	0.24 UJ	0.14 UJ	0.48 UJ	0.24 U	0.24 U	2.4 U	1.4 U	0.14 U	0.24 U
	BGMW03042017	4/20/17	0.46 U	0.23 U	0.23 U	0.23 U	0.23 U	0.14 U	0.23 U	0.34 U	0.23 U	0.14 U	0.46 U	0.23 U	0.23 U	2.3 U	1.4 U	0.14 U	0.23 U
	BGMW03102016	10/28/16	0.44 U	0.22 U	0.22 U	0.22 U	0.22 U	0.13 UJ	0.22 UJ	0.33 U	0.22 UJ	0.13 U	0.44 UJ	0.22 U	0.22 U	2.2 U	1.3 U	0.41 UJ	0.22 U
FW31	FW31042018	4/23/18	0.42 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.12 UJ	0.21 UJ	0.31 U	0.21 UJ	0.12 UJ	0.42 UJ	0.21 U	0.21 U	2.1 U	1.2 U	0.12 U	0.21 U
	FW31102017	10/18/17	0.46 U	0.23 U	0.23 U	0.23 U	0.23 U	0.14 U	0.23 U	0.34 U	0.23 U	0.14 U	0.46 U	0.23 U	0.23 U	2.3 U	1.4 U	0.14 U	0.23 U
	FW31042017	4/17/17	0.44 U	0.22 U	0.22 U	0.22 U	0.22 U	0.13 U	0.22 U	0.33 U	0.22 U	0.13 U	0.44 U	0.22 U	0.22 U	2.2 U	1.3 U	0.13 U	0.22 U
	FW31102016	10/26/16	0.48 U	0.24 U	0.24 U	0.24 U	0.24 U	0.15 U	0.24 U	0.36 U	0.24 U	0.15 U	0.48 U	0.24 U	0.24 U	2.4 U	1.5 U	0.15 U	0.24 U
FW35	Well has been dry since 2015		Well was dry and was not sampled																
MW01	MW01042018	4/23/18	0.48 UJ	0.24 UJ	0.24 UJ	0.24 UJ	0.24 UJ	0.14 UJ	0.24 UJ	0.36 UJ	0.24 UJ	0.14 UJ	0.48 UJ	0.24 UJ	0.24 UJ	2.4 UJ	1.4 UJ	0.14 UJ	0.24 UJ
	MW01102017	10/24/17	2.9 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ	0.87 UJ	1.4 UJ	2.2 UJ	1.4 UJ	0.87 UJ	2.9 UJ	1.4 UJ	1.4 UJ	14 UJ	8.7 UJ	0.87 UJ	1.4 UJ
	MW01042017	4/19/17	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	0.13 U	0.21 U	0.32 U	0.21 U	0.13 U	0.42 U	0.21 U	0.21 U	2.1 U	1.3 U	0.13 U	0.21 U
	MW01102016	10/27/16	0.46 U	0.23 U	0.23 U	0.23 UJ	0.23 UJ	0.14 UJ	0.23 UJ	0.34 U	0.23 UJ	0.14 UJ	0.46 UJ	0.23 U	0.23 U	2.3 U	1.4 U	0.14 U	0.23 U
MW02	MW02042018	4/23/18	0.43 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.13 UJ	0.22 UJ	0.33 U	0.22 UJ	0.13 UJ	0.43 UJ	0.22 U	0.22 U	2.2 U	1.3 U	0.13 U	0.22 U
	MW02102017	10/24/17	4.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ	1.2 UJ	2.0 UJ	3.0 UJ	2.0 UJ	1.2 UJ	4.0 UJ	2.0 UJ	2.0 UJ	20 UJ	12 UJ	1.2 UJ	2.0 UJ
	MW02042017	4/19/17	0.48 U	0.24 U	0.24 U	0.24 U	0.24 U	0.14 U	0.24 U	0.36 U	0.24 U	0.14 U	0.48 U	0.24 U	0.24 U	2.4 U	1.4 U	0.14 U	0.24 U
	MW02102016	10/27/16	0.46 U	0.23 U	0.23 U	0.23 UJ	0.23 UJ	0.14 UJ	0.23 UJ	0.34 U	0.23 UJ	0.14 UJ	0.46 UJ	0.23 U	0.23 U	2.3 U	1.4 U	0.14 U	0.23 U
MW03	MW03042018	4/27/18	0.42 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.13 UJ	0.21 UJ	0.31 UJ	0.21 UJ	0.13 UJ	0.42 UJ	0.21 UJ	0.21 UJ	2.1 UJ	1.3 UJ	0.13 UJ	0.21 UJ
	MW03102017	10/23/17	0.44 U	0.22 U	0.22 U	0.22 U	0.22 U	0.13 U	0.22 U	0.33 U	0.22 U	0.13 U	0.44 U	0.22 U	0.22 U	2.2 U	1.3 U	0.13 U	0.22 U
	MW03042017	4/21/17	0.48 U	0.24 U	0.24 U	0.24 U	0.24 U	0.14 U	0.24 U	0.36 U	0.24 U	0.14 U	0.48 U	0.24 U	0.24 U	2.4 U	1.4 U	0.14 U	0.24 U
	MW03102016	11/3/16	0.43 U	0.21 U	0.21 U	0.21 UJ	0.21 UJ	0.13 UJ	0.21 UJ	0.32 U	0.21 UJ	0.13 UJ	0.43 UJ	0.21 U	0.21 U	2.1 U	1.3 U	0.13 U	0.21 U
MW18D	MW18D042018	4/25/18	0.42 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.13 UJ	0.21 UJ	0.32 UJ	0.21 UJ	0.13 UJ	0.42 UJ	0.21 UJ	0.21 UJ	2.1 UJ	1.3 UJ	0.13 UJ	0.21 UJ
	MW18D102017	10/19/17	0.48 U	0.24 U	0.24 U	0.24 UJ	0.24 UJ	0.14 UJ	0.24 UJ	0.36 U	0.24 UJ	0.14 UJ	0.48 UJ	0.24 U	0.24 U	2.4 U	1.4 U	0.14 U	0.24 U
	MW18D042017	4/20/17	0.47 U	0.23 U	0.23 U	0.23 U	0.23 U	0.14 U	0.23 U	0.35 U	0.23 U	0.14 U	0.47 U	0.23 U	0.23 U	2.3 U	1.4 U	0.14 U	0.23 U
	MW18D102016	10/28/16	0.48 UJ	0.24 UJ	0.24 UJ	0.24 UJ	0.24 UJ	0.14 UJ	0.24 UJ	0.36 UJ	0.24 UJ	0.14 UJ	0.48 UJ	0.24 UJ	0.24 UJ	2.4 UJ	1.4 UJ	0.14 UJ	0.24 UJ
MW18S	Well has been dry since install in 1994		Well was dry and was not sampled																

Table 5-3: Summary of Explosives Analytical Results (µg/L)

			1,3,5-Trinitro-benzene	1,3-Dinitro-benzene	2,4,6-Trinitro-toluene	2,4-Dinitro-toluene	2,6-Dinitro-toluene	2-Amino-4,6-Dinitro-toluene	2-Nitro-toluene	3,5-Dinitro-aniline	3-Nitro-toluene	4-Amino-2,6-Dinitro-toluene	4-Nitro-toluene	HMX	Nitro-benzene	Nitro-glycerine*	PETN	RDX	Tetryl
			CAS 99-35-4	CAS 99-65-0	CAS 118-96-7	CAS 121-14-2	CAS 606-20-2	CAS 35572-78-2	CAS 88-72-2	CAS 618-87-1	CAS 99-08-1	CAS 19406-51-0	CAS 99-99-0	CAS 2691-41-0	CAS 98-95-3	CAS 55-63-0	CAS 78-11-5	CAS 121-82-4	CAS 479-45-8
Well Name	Sample Identifier	Sample Date	Screening Value (µg/L) ^{a,b}																
			590	2.0	9.8	2.4	0.49	39	3.1	38	1.7	39	43	1000	1.4	2	39	9.7	39
MW20	MW20042018	4/30/18	0.43 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.13 UJ	0.22 UJ	0.33 UJ	0.22 UJ	0.13 UJ	0.43 UJ	0.22 UJ	0.22 UJ	2.2 UJ	1.3 UJ	0.13 UJ	0.22 UJ
	MW20102017	10/23/17	0.44 U	0.22 U	0.22 U	0.22 U	0.22 U	0.13 U	0.22 U	0.33 U	0.22 U	0.13 U	0.44 U	0.22 U	0.22 U	2.2 U	1.3 U	0.13 U	0.22 U
	MW20042017	4/24/17	0.48 U	0.24 U	0.24 U	0.24 U	0.24 U	0.14 U	0.24 U	0.36 U	0.24 U	0.14 U	0.48 U	0.24 U	0.24 U	2.4 U	1.4 U	0.14 U	0.24 U
	MW20102016	11/4/16	0.46 UJ	0.23 UJ	0.23 UJ	0.23 UJ	0.23 UJ	0.14 UJ	0.23 UJ	0.35 UJ	0.23 UJ	0.14 UJ	0.46 UJ	0.23 UJ	0.23 UJ	2.3 UJ	1.4 UJ	0.14 UJ	0.23 UJ
MW22D	MW22D042018	4/27/18	0.44 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.13 UJ	0.22 UJ	0.33 UJ	0.22 UJ	0.13 UJ	0.44 UJ	0.22 UJ	0.22 UJ	2.2 UJ	1.3 UJ	0.13 UJ	0.22 UJ
	MW22D102017	10/23/17	0.47 U	0.24 U	0.24 U	0.24 U	0.24 U	0.14 U	0.24 U	0.35 U	0.24 U	0.14 U	0.47 U	0.24 U	0.24 U	2.4 U	1.4 U	0.14 U	0.24 U
	MW22D042017	4/19/17	0.47 U	0.24 U	0.24 U	0.24 U	0.24 U	0.14 U	0.24 U	0.35 U	0.24 U	0.14 U	0.47 U	0.24 U	0.24 U	2.4 U	1.4 U	0.14 U	0.24 U
	MW22D102016	10/28/16	0.45 U	0.23 U	0.23 U	0.23 U	0.23 U	0.14 UJ	0.23 UJ	0.34 U	0.23 UJ	0.14 U	0.45 UJ	0.23 U	0.23 U	2.3 U	1.4 U	0.14 U	0.23 U
MW22S	MW22S042018	4/1/18	Well was dry and was not sampled																
	MW22S102017	10/2017	Well was dry and was not sampled																
	MW22S042017	04/2017	Well was dry and was not sampled																
	MW22S102016	10/2016	Well was dry and was not sampled																
MW23	MW23042018	4/24/18	0.42 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.13 UJ	0.21 UJ	0.32 UJ	0.21 UJ	0.13 UJ	0.42 UJ	0.21 UJ	0.21 UJ	2.1 UJ	1.3 UJ	0.13 UJ	0.21 UJ
	MW23042018FD ^c	4/24/18	0.43 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.13 UJ	0.21 UJ	0.32 U	0.21 UJ	0.13 UJ	0.43 UJ	0.21 UJ	0.21 U	2.1 UJ	1.3 UJ	0.13 UJ	0.21 UJ
	MW23102017	10/18/17	0.47 U	0.24 U	0.24 U	0.24 U	0.24 U	0.14 U	0.24 U	0.35 U	0.24 U	0.14 UJ	0.47 U	0.24 U	0.24 U	2.4 U	1.4 U	0.14 U	0.24 U
	MW23102017FD ^c	10/18/17	0.47 U	0.24 U	0.24 U	0.24 U	0.24 U	0.14 U	0.24 U	0.36 U	0.24 U	0.14 U	0.47 U	0.24 U	0.24 U	2.4 U	1.4 U	0.14 U	0.24 U
	MW23042017	4/18/17	0.45 U	0.23 U	0.23 U	0.23 U	0.23 U	0.14 U	0.23 U	0.34 UJ	0.23 U	0.14 U	0.45 U	6.5 J	0.23 U	2.3 U	1.4 U	0.14 UJ	0.23 U
	DMW23042017 ^c	4/18/17	0.43 U	0.22 U	0.22 U	0.22 U	0.22 U	0.13 U	0.22 U	0.33 U	0.22 U	0.13 U	0.43 U	0.22 U	0.22 U	2.2 U	1.3 U	0.13 U	0.22 U
	MW23102016	10/27/16	0.44 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.13 UJ	0.22 UJ	0.33 UJ	0.22 UJ	0.13 UJ	0.44 UJ	0.22 UJ	0.22 UJ	2.2 UJ	1.3 UJ	0.13 UJ	0.22 UJ
MW24	MW24042018	4/23/18	0.43 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.13 UJ	0.21 UJ	0.32 UJ	0.21 UJ	0.13 UJ	0.43 UJ	0.21 UJ	0.21 UJ	2.1 UJ	1.3 UJ	0.13 UJ	0.21 UJ
	MW24042018FD ^c	4/23/18	0.42 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.13 UJ	0.21 UJ	0.32 UJ	0.21 UJ	0.13 UJ	0.42 UJ	0.21 UJ	0.21 UJ	2.1 UJ	1.3 UJ	0.13 UJ	0.21 UJ
	MW24102017	10/17/17	0.46 UJ	0.23 UJ	0.23 UJ	0.23 UJ	0.23 UJ	0.14 UJ	0.23 UJ	0.35 U	0.23 UJ	0.14 UJ	0.46 UJ	0.23 UJ	0.23 UJ	2.3 UJ	1.4 UJ	0.14 UJ	0.23 UJ
	MW24102017FD 01 ^c	10/17/17	0.45 UJ	0.23 UJ	0.23 UJ	0.23 UJ	0.23 UJ	0.14 UJ	0.23 UJ	0.37 U	0.23 UJ	0.14 UJ	0.45 UJ	0.23 UJ	0.23 UJ	2.3 UJ	1.4 UJ	0.14 UJ	0.23 UJ
	MW24042017	4/17/17	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	0.13 U	0.21 U	0.32 U	0.21 U	0.13 U	0.42 U	0.21 U	0.21 U	2.1 U	1.3 U	0.13 U	0.21 U
	DMW24042017 ^c	4/17/17	0.43 U	0.21 U	0.21 U	0.21 U	0.21 U	0.13 U	0.21 U	0.32 U	0.21 U	0.13 U	0.43 U	0.21 U	0.21 U	2.1 U	1.3 U	0.13 U	0.21 U
	MW24102016	10/26/16	0.43 UJ	0.22 U	0.22 U	0.22 U	0.22 UJ	0.13 U	0.22 U	0.32 U	0.22 U	0.13 U	0.43 U	0.22 U	0.22 U	2.2 U	1.3 U	0.13 U	0.22 U
	DMW24102016 ^c	10/26/16	0.43 U	0.22 U	0.22 U	0.22 U	0.22 U	0.13 U	0.22 U	0.33 U	0.22 U	0.13 U	0.43 U	0.22 U	0.22 U	2.2 U	1.3 U	0.13 U	0.22 U
SMW01	SMW01042018	4/26/18	0.46 UJ	0.23 UJ	0.23 UJ	0.23 UJ	0.23 UJ	0.14 UJ	0.23 UJ	0.35 UJ	0.23 UJ	0.14 UJ	0.46 UJ	0.23 UJ	0.23 U	2.3 UJ	1.4 UJ	0.14 UJ	0.23 UJ
	SMW01102017	10/20/17	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	0.15 U	0.25 U	0.37 U	0.25 U	0.15 U	0.50 U	0.25 U	0.25 U	2.5 U	1.5 U	0.15 U	0.25 U
	SMW01042017	4/21/17	0.46 U	0.23 U	0.23 U	0.23 U	0.23 U	0.14 U	0.23 U	0.35 U	0.23 U	0.14 U	0.46 U	0.23 U	0.23 U	2.3 U	1.4 U	0.14 U	0.23 U
	SMW01102016	11/2/16	4.4 U	2.2 U	2.2 U	2.2 U	2.2 U	1.3 U	2.2 U	3.3 U	2.2 U	1.3 U	4.4 U	2.2 U	2.2 U	22 U	13 U	1.3 U	2.2 U
TMW01	TMW01042018	5/4/18	0.46 UJ	0.23 UJ	0.23 UJ	0.23 UJ	0.23 UJ	0.14 UJ	0.23 UJ	0.34 UJ	0.23 UJ	0.14 UJ	0.46 UJ	0.23 UJ	0.23 UJ	2.3 UJ	1.4 UJ	0.14 UJ	0.23 UJ
	TMW01102017	10/27/17	0.44 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.13 UJ	0.22 UJ	0.33 UJ	0.22 UJ	0.13 UJ	0.44 UJ	0.22 UJ	0.22 UJ	2.2 UJ	1.3 UJ	0.13 UJ	0.22 UJ
	TMW01042017	4/25/17	0.41 U	0.20 U	0.20 U	0.20 U	0.20 U	0.12 U	0.20 U	0.31 U	0.20 U	0.12 U	0.41 U	0.20 U	0.20 U	2.0 U	1.2 U	0.12 U	0.20 U
	TMW01102016	10/31/16	0.43 U	0.22 U	0.22 U	0.22 U	0.22 U	0.13 UJ	0.22 U	0.32 U	0.22 U	0.13 UJ	0.43 U	0.22 U	0.22 U	2.2 U	1.3 U	0.13 U	0.22 U
TMW03	TMW03042018	4/30/18	6.0 J	0.23 U	0.23 U	0.23 UJ	0.23 U	1.9 J	0.23 U	4.8 J	0.23 U	3.2 J	0.47 U	43	0.23 U	2.3 U	1.4 U	360	0.23 U
	TMW03102017	10/25/17	1.7 J	0.12 J	0.24 UJ	0.24 UJ	0.24 UJ	0.99 J	0.24 UJ	6.4 J	2.6 J	2.9 J	0.49 UJ	8.2 J	4.3 J	2.4 UJ	1.5 UJ	470	0.24 UJ
	TMW03042017	4/24/17	0.43 U	0.21 U	0.21 U	0.21 U	0.21 U	0.13 U	0.21 U	0.32 U	0.21 U	0.13 U	0.43 U	0.21 U	0.21 U	2.1 U	1.3 U	400 ^e	0.21 U
	TMW03102016	10/31/16	22 U	11 U	11 U	11 U	11 U	6.7 UJ	11 U	17 U	11 U	6.7 UJ	22 U	11 U	11 U	110 U	67 U	490	11 U

Table 5-3: Summary of Explosives Analytical Results (µg/L)

			1,3,5-Trinitro-benzene	1,3-Dinitro-benzene	2,4,6-Trinitro-toluene	2,4-Dinitro-toluene	2,6-Dinitro-toluene	2-Amino-4,6-Dinitro-toluene	2-Nitro-toluene	3,5-Dinitro-aniline	3-Nitro-toluene	4-Amino-2,6-Dinitro-toluene	4-Nitro-toluene	HMX	Nitro-benzene	Nitro-glycerine*	PETN	RDX	Tetryl
			CAS 99-35-4	CAS 99-65-0	CAS 118-96-7	CAS 121-14-2	CAS 606-20-2	CAS 35572-78-2	CAS 88-72-2	CAS 618-87-1	CAS 99-08-1	CAS 19406-51-0	CAS 99-99-0	CAS 2691-41-0	CAS 98-95-3	CAS 55-63-0	CAS 78-11-5	CAS 121-82-4	CAS 479-45-8
Well Name	Sample Identifier	Sample Date	Screening Value (µg/L) ^{a,b}																
			590	2.0	9.8	2.4	0.49	39	3.1	38	1.7	39	43	1000	1.4	2	39	9.7	39
TMW04	TMW04042018	5/2/18	0.45 U	0.23 U	0.23 U	0.23 U	0.23 U	2.4 J	0.23 U	1.7 J	0.23 U	2.6 J	0.45 U	12 J	0.23 U	2.3 U	1.4 U	0.14	0.23 U
	TMW04102017	10/25/17	6.5 J	0.23 UJ	0.23 UJ	0.23 UJ	0.23 UJ	1.6 J	0.23 UJ	1.2 J	2.3 J	1.4 J	0.45 UJ	0.23 UJ	0.23 UJ	2.3 UJ	1.4 UJ	9.1 J	0.23 UJ
	TMW04042017	4/24/17	0.44 U	0.22 U	0.22 U	0.22 U	0.22 U	0.13 U	0.22 U	0.33 U	0.22 U	0.13 U	0.44 U	0.22 U	0.22 U	2.2 U	1.3 U	0.13 U	0.22 U
	TMW04102016	11/3/16	22 U	11 U	11 U	11 UJ	11 UJ	6.6 UJ	11 UJ	17 U	11 UJ	6.6 UJ	22 UJ	19 J	11 U	110 U	66 U	6.6 U	11 U
TMW06	TMW06042018	4/30/18	0.43 U	0.21 U	0.21 U	0.21 UJ	0.21 U	0.13 UJ	0.21 U	0.32 U	0.21 U	0.13 UJ	0.43 U	0.21 U	0.21 U	2.1 U	1.3 U	0.13 U	0.21 U
	TMW06102017 01 ^d	10/26/17	0.43 U	0.22 U	0.22 U	0.22 U	0.22 U	0.13 U	0.22 U	0.33 U	0.22 U	0.13 U	0.43 U	0.22 U	0.22 U	2.2 U	1.3 U	0.13 U	0.22 U
	TMW06042017	4/20/17	0.46 U	0.23 U	0.23 U	0.23 U	0.23 U	0.14 U	0.23 U	0.34 U	0.23 U	0.14 U	0.46 U	0.23 U	0.23 U	2.3 U	1.4 U	0.14 U	0.23 U
	TMW06102016	10/31/16	0.45 U	0.22 U	0.22 U	0.22 U	0.22 U	0.13 UJ	0.22 U	0.34 U	0.22 U	0.13 UJ	0.45 U	0.22 U	0.22 U	2.2 U	1.3 U	0.13 U	0.22 U
TMW07	TMW07042018	4/25/18	0.42 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.13 UJ	0.21 UJ	0.32 UJ	0.21 UJ	0.13 UJ	0.42 UJ	0.21 UJ	0.21 UJ	2.1 UJ	1.3 UJ	0.13 UJ	0.21 UJ
	TMW07102017	10/19/17	0.45 U	0.22 U	0.22 U	0.22 UJ	0.22 UJ	0.13 UJ	0.22 UJ	0.33 U	0.22 UJ	0.13 UJ	0.45 UJ	0.22 U	0.22 U	2.2 U	1.3 U	0.13 U	0.22 U
	TMW07042017	4/20/17	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	0.13 U	0.21 U	0.32 U	0.21 U	0.13 U	0.42 U	0.21 U	0.21 U	2.1 U	1.3 U	0.13 U	0.21 U
	TMW07102016	10/27/16	0.40 U	0.20 U	0.20 U	0.20 UJ	0.20 UJ	0.12 UJ	0.20 UJ	0.30 U	0.20 UJ	0.12 UJ	0.40 UJ	0.22 J	0.20 U	2.0 U	1.2 U	0.080 UJ	0.20 U
TMW10	TMW10042018	4/24/18	0.49 UJ	0.24 UJ	0.24 UJ	0.24 UJ	0.24 UJ	0.15 UJ	0.24 UJ	0.37 UJ	0.24 UJ	0.15 UJ	0.49 UJ	0.24 UJ	0.24 UJ	2.4 UJ	1.5 UJ	0.15 UJ	0.24 UJ
	TMW10102017	10/25/17	0.52 U	0.26 U	0.26 U	0.26 UJ	0.26 UJ	0.16 UJ	0.26 UJ	0.39 U	0.26 UJ	0.16 UJ	0.52 UJ	0.26 U	0.26 UJ	2.6 U	1.6 U	0.16 U	0.26 U
	TMW10042017	4/21/17	0.46 U	0.23 U	0.23 U	0.23 U	0.23 U	0.14 U	0.23 U	0.35 U	0.23 U	0.14 U	0.46 U	0.23 U	0.23 U	2.3 U	1.4 U	0.28 UJ	0.23 U
	TMW10102016	11/2/16	0.47 U	0.24 U	0.24 U	0.24 U	0.24 U	0.14 U	0.24 U	0.36 U	0.24 U	0.14 U	0.47 U	0.24 U	0.24 U	2.4 U	1.4 U	0.14 U	0.24 U
TMW11	TMW11042018	5/2/18	0.45 U	0.22 U	0.22 U	0.22 U	0.22 U	0.13 U	0.22 U	0.34 U	0.22 U	0.13 U	0.45 U	0.22 U	0.22 U	2.2 U	1.3 U	0.13 U	0.22 U
	TMW11102017	10/27/17	0.45 UJ	0.23 UJ	0.23 UJ	0.23 UJ	0.23 UJ	0.14 UJ	0.23 UJ	0.34 UJ	0.23 UJ	0.14 UJ	0.45 UJ	0.23 UJ	0.23 UJ	2.3 UJ	1.4 UJ	0.14 UJ	0.23 UJ
	TMW11042017	4/26/17	0.48 U	0.24 U	0.24 U	0.24 U	0.24 U	0.14 U	0.24 U	0.36 U	0.24 U	0.14 U	0.48 U	0.24 U	0.24 U	2.4 U	1.4 U	0.14 U	0.24 U
	TMW11102016	11/3/16	0.45 U	0.22 U	0.22 U	0.22 UJ	0.22 UJ	0.13 UJ	0.22 UJ	0.34 U	0.22 UJ	0.13 UJ	0.45 UJ	0.22 U	0.22 U	2.2 U	1.3 U	0.13 U	0.22 U
	DTW11102016	11/3/16	0.45 U	0.22 U	0.22 U	0.22 UJ	0.22 UJ	0.13 UJ	0.22 UJ	0.34 U	0.22 UJ	0.13 UJ	0.45 UJ	0.22 U	0.22 U	2.2 U	1.3 U	0.13 U	0.22 U
TMW15	TMW15042018	5/3/18	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	0.13 U	0.21 U	0.31 U	0.21 U	0.13 U	0.42 U	0.21 U	0.21 U	2.1 U	1.3 U	0.13 U	0.21 U
	TMW15042018FD ^c	5/3/18	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.12 U	0.20 U	0.30 U	0.20 U	0.12 U	0.40 U	0.20 U	0.20 U	2.0 U	1.2 U	0.12 U	0.20 U
	TMW15102017	10/26/17	0.47 U	0.23 U	0.23 U	0.23 U	0.23 U	0.14 U	0.23 U	0.35 U	0.23 U	0.14 U	0.47 U	0.23 U	0.23 U	2.3 U	1.4 U	0.14 U	0.23 U
	TMW15102017FD ^c	10/26/17	0.47 U	0.23 U	0.23 U	0.23 U	0.23 U	0.14 U	0.23 U	0.35 U	0.23 U	0.14 U	0.47 U	0.23 U	0.23 U	2.3 U	1.4 U	0.14 U	0.23 U
	TMW15042017	4/27/17	0.44 U	0.22 U	0.22 U	0.22 U	0.22 U	0.13 U	0.22 U	0.33 U	0.22 U	0.13 U	0.44 U	0.22 U	0.22 U	2.2 U	1.3 U	0.13 U	0.22 U
	DTW15042017 ^c	4/27/17	0.44 U	0.22 U	0.22 U	0.22 U	0.22 U	0.13 U	0.22 U	0.33 U	0.22 U	0.13 U	0.44 U	0.22 U	0.22 U	2.2 U	1.3 U	0.13 U	0.22 U
	TMW15102016	11/2/16	0.43 U	0.22 U	0.22 U	0.22 U	0.22 U	0.13 U	0.22 U	0.32 U	0.22 U	0.13 U	0.43 U	0.22 U	0.22 U	2.2 U	1.3 U	0.13 U	0.22 U
TMW21	TMW21042018	5/1/18	0.43 U	0.21 U	0.21 U	0.21 U	0.21 U	0.13 U	0.21 U	0.32 U	0.21 U	0.13 U	0.43 U	0.21 U	0.21 U	2.1 U	1.3 U	0.13 U	0.21 U
	TMW21102017	10/25/17	0.47 U	0.24 U	0.24 U	0.24 UJ	0.24 UJ	0.14 UJ	0.24 UJ	0.35 U	0.24 UJ	0.14 UJ	0.47 UJ	0.24 U	0.24 UJ	2.4 U	1.4 U	0.14 U	0.24 U
	TMW21042017	4/26/17	0.43 U	0.21 U	0.21 U	0.21 U	0.21 U	0.13 U	0.21 U	0.32 U	0.21 U	0.13 U	0.43 U	0.21 U	0.21 U	2.1 U	1.3 U	0.13 U	0.21 U
	TMW21102016	10/27/16	0.42 U	0.21 U	0.21 U	0.21 UJ	0.21 UJ	0.13 UJ	0.21 UJ	0.31 U	0.21 UJ	0.13 UJ	0.42 UJ	0.21 U	0.21 U	2.1 U	1.3 U	0.13 U	0.21 U
TMW22	TMW22042018	4/25/18	0.45 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.13 UJ	0.22 UJ	0.33 U	0.22 UJ	0.13 UJ	0.45 UJ	0.22 UJ	0.22 U	2.2 UJ	1.3 UJ	0.13 UJ	0.22 UJ
	TMW22102017	10/25/17	4.9 J	0.23 UJ	0.23 UJ	0.23 UJ	0.23 UJ	0.18 J	0.23 UJ	0.35 UJ	0.23 UJ	0.14 UJ	0.46 UJ	0.23 UJ	0.23 UJ	2.3 UJ	1.4 UJ	0.14 UJ	0.23 UJ
	TMW22042017	4/19/17	0.48 U	0.24 U	0.24 U	0.24 U	0.24 U	0.14 U	0.24 U	0.36 U	0.24 U	0.14 U	0.48 U	0.24 U	0.24 U	2.4 U	1.4 U	0.14 U	0.24 U
	TMW22102016	10/27/16	0.43 U	0.22 U	0.22 U	0.22 UJ	0.22 UJ	0.13 UJ	0.22 UJ	0.32 U	0.91 J	0.13 UJ	0.43 UJ	0.22 U	0.22 U	2.2 U	1.3 U	0.13 U	0.22 U

Table 5-3: Summary of Explosives Analytical Results (µg/L)

			1,3,5-Trinitro-benzene	1,3-Dinitro-benzene	2,4,6-Trinitro-toluene	2,4-Dinitro-toluene	2,6-Dinitro-toluene	2-Amino-4,6-Dinitro-toluene	2-Nitro-toluene	3,5-Dinitro-aniline	3-Nitro-toluene	4-Amino-2,6-Dinitro-toluene	4-Nitro-toluene	HMX	Nitro-benzene	Nitro-glycerine*	PETN	RDX	Tetryl
			CAS 99-35-4	CAS 99-65-0	CAS 118-96-7	CAS 121-14-2	CAS 606-20-2	CAS 35572-78-2	CAS 88-72-2	CAS 618-87-1	CAS 99-08-1	CAS 19406-51-0	CAS 99-99-0	CAS 2691-41-0	CAS 98-95-3	CAS 55-63-0	CAS 78-11-5	CAS 121-82-4	CAS 479-45-8
Well Name	Sample Identifier	Sample Date	Screening Value (µg/L) ^{a,b}																
			590	2.0	9.8	2.4	0.49	39	3.1	38	1.7	39	43	1000	1.4	2	39	9.7	39
TMW23	TMW23042018	4/25/18	0.43 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.23 J	0.21 UJ	0.32 U	0.21 UJ	0.13 UJ	0.43 UJ	0.21 UJ	0.21 U	2.1 UJ	1.3 UJ	84 J	0.21 UJ
	TMW23102017	10/19/17	0.46 U	0.23 U	0.23 U	0.23 UJ	0.23 UJ	0.79 J	0.23 UJ	0.35 U	0.23 UJ	0.53 J	0.46 UJ	0.23 U	0.23 U	2.3 U	1.4 U	53 J	0.23 U
	TMW23042017	4/20/17	4.2 UJ	2.1 U	2.1 UJ	2.1 UJ	2.1 UJ	1.3 UJ	2.1 UJ	3.1 UJ	2.1 U	1.3 UJ	4.2 UJ	2.1 U	2.1 UJ	21 UJ	13 UJ	49 J	2.1 UJ
	TMW23102016	10/28/16	3.0 J	3.4 J	0.22 U	0.22 U	0.22 U	0.23 J	0.22 UJ	0.32 U	0.22 UJ	0.13 U	0.43 UJ	0.22 U	0.22 U	2.2 U	1.3 U	67	0.22 U
TMW24	TMW24042018	4/30/18	0.44 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.13 UJ	0.22 UJ	0.33 UJ	0.22 UJ	0.13 UJ	0.44 UJ	0.22 UJ	0.22 UJ	2.2 UJ	1.3 UJ	0.13 UJ	0.22 UJ
	TMW24102017	10/24/17	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	0.15 U	0.25 U	0.37 U	0.25 U	0.15 U	0.50 U	0.25 U	0.25 U	2.5 U	1.5 U	0.15 U	0.25 U
	TMW24042017	4/25/17	0.44 U	0.22 U	0.22 U	0.22 U	0.22 U	0.13 U	0.22 U	0.33 U	0.22 U	0.13 U	0.44 U	0.22 U	0.22 U	2.2 U	1.3 U	0.13 U	0.22 U
	TMW24102016	11/3/16	0.43 U	0.22 U	0.22 U	0.22 UJ	0.22 UJ	0.13 UJ	0.22 UJ	0.32 U	0.22 UJ	0.13 UJ	0.43 UJ	0.22 U	0.22 U	2.2 U	1.3 U	0.13 U	0.22 U
TMW25	TMW25042018	4/30/18	0.48 UJ	0.24 UJ	0.24 UJ	0.24 UJ	0.24 UJ	0.14 UJ	0.24 UJ	0.36 UJ	0.24 UJ	0.14 UJ	0.48 UJ	0.24 UJ	0.24 UJ	2.4 UJ	1.4 UJ	0.14 UJ	0.24 UJ
	TMW25102017	10/25/17	0.48 UJ	0.24 UJ	0.24 UJ	0.24 UJ	0.24 UJ	0.14 UJ	0.24 UJ	0.36 UJ	0.24 UJ	0.14 UJ	0.48 UJ	0.24 UJ	0.24 UJ	2.4 UJ	1.4 UJ	0.14 UJ	0.24 UJ
	TMW25042017	4/27/17	22 U	11 U	11 U	11 U	11 U	6.6 U	11 U	16 U	11 U	6.6 U	22 U	11 U	230	110 U	66 U	6.6 U	11 U
	TMW25102016	11/1/16	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	0.15 UJ	0.25 U	0.38 U	0.25 U	0.15 UJ	0.50 U	0.25 U	0.25 U	2.5 U	1.5 U	0.15 U	0.25 U
TMW26	TMW26042018	4/26/18	0.45 U	0.22 U	0.22 U	0.22 U	0.22 U	0.13 UJ	0.22 U	0.33 U	0.22 U	0.13 UJ	0.45 U	0.22 U	0.22 U	2.2 U	1.3 U	0.13 U	0.22 U
	TMW26042018FD ^c	4/26/18	0.44 U	0.22 U	0.22 U	0.22 U	0.22 U	0.13 UJ	0.22 U	0.33 U	0.22 U	0.13 UJ	0.44 U	0.22 U	0.22 U	2.2 U	1.3 U	0.13 U	0.22 U
	TMW26102017	10/17/17	0.46 UJ	0.23 UJ	0.23 UJ	0.23 UJ	0.23 UJ	0.14 UJ	0.23 UJ	0.33 U	0.23 UJ	0.14 UJ	0.46 UJ	0.23 UJ	0.23 UJ	2.3 UJ	1.4 UJ	0.14 UJ	0.23 UJ
	TMW26102017FD ^c	10/17/17	0.46 UJ	0.23 UJ	0.23 UJ	0.23 UJ	0.23 UJ	0.14 UJ	0.23 UJ	0.35 U	0.23 UJ	0.14 UJ	0.46 UJ	0.23 UJ	0.23 UJ	2.3 UJ	1.4 UJ	0.14 UJ	0.23 UJ
	TMW26042017	4/20/17	0.46 U	0.23 U	0.23 U	0.23 U	0.23 U	0.14 U	0.23 U	0.35 U	0.23 U	0.14 U	0.46 U	0.23 U	0.23 U	2.3 U	1.4 U	0.14 U	0.23 U
	DTW26042017 ^c	4/20/17	0.46 U	0.23 U	0.23 U	0.23 U	0.23 U	0.14 U	0.23 U	0.35 U	0.23 U	0.14 U	0.46 U	0.23 U	0.23 U	2.3 U	1.4 U	0.14 U	0.23 U
	TMW26102016	11/1/16	0.45 U	0.22 U	0.22 U	0.22 U	0.22 U	0.13 UJ	0.22 U	0.33 U	0.22 U	0.13 UJ	0.45 U	0.22 U	0.22 U	2.2 U	1.3 U	0.13 U	0.22 U
TMW29	TMW29042018	4/23/18	0.50 UJ	0.25 UJ	0.25 UJ	0.25 UJ	0.25 UJ	0.15 UJ	0.25 UJ	0.38 U	0.25 UJ	0.15 UJ	0.50 UJ	0.25 U	0.25 U	2.5 U	1.5 U	0.15 U	0.25 U
	TMW29102017	10/20/17	0.53 U	0.27 U	0.27 U	0.27 U	0.27 U	0.16 U	0.27 U	0.40 U	0.27 U	0.16 U	0.53 U	0.27 U	0.27 U	2.7 U	1.6 U	0.16 U	0.27 U
	TMW29042017	4/20/17	0.44 U	0.22 U	0.22 U	0.22 U	0.22 U	0.13 U	0.22 U	0.33 U	0.22 U	0.13 U	0.44 U	0.22 U	0.22 U	2.2 U	1.3 U	0.13 U	0.22 U
	TMW29102016	10/28/16	0.45 U	0.23 U	0.23 U	0.23 U	0.23 U	0.14 UJ	0.23 UJ	0.34 U	0.23 UJ	0.14 U	0.45 UJ	0.23 U	0.23 U	2.3 U	1.4 U	0.14 U	0.23 U
TMW31S	TMW31S042018	4/25/18	0.44 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.13 UJ	0.22 UJ	0.33 UJ	0.22 UJ	0.13 UJ	0.44 UJ	0.22 UJ	0.22 UJ	2.2 UJ	1.3 UJ	0.13 UJ	0.22 UJ
	TMW31S102017	10/25/17	0.50 UJ	0.25 UJ	0.25 UJ	0.25 UJ	0.25 UJ	0.15 UJ	0.25 UJ	0.38 UJ	0.25 UJ	0.15 UJ	0.50 UJ	0.25 UJ	0.25 UJ	2.5 UJ	1.5 UJ	0.15 UJ	0.25 UJ
	TMW31S042017	4/19/17	0.49 U	0.24 U	0.24 U	0.24 U	0.24 U	0.15 U	0.24 U	0.37 U	0.24 U	0.15 U	0.49 U	0.24 U	0.24 U	2.4 U	1.5 U	0.15 U	0.24 U
	TMW31S102016	10/27/16	0.44 U	0.22 U	0.22 U	0.22 UJ	0.22 J	0.13 UJ	0.22 UJ	0.33 U	0.22 UJ	0.13 UJ	0.44 UJ	0.22 U	0.22 U	2.2 U	1.3 U	0.16 UJ	0.22 U
TMW39S	TMW39S042018	4/25/18	0.44 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.13 UJ	0.22 UJ	0.33 UJ	0.22 UJ	0.13 UJ	0.44 UJ	0.22 UJ	0.22 UJ	2.2 UJ	1.3 UJ	0.13 UJ	0.22 UJ
	TMW39S102017	10/18/17	0.51 U	0.25 U	0.25 U	0.25 U	0.25 U	0.15 U	0.25 U	0.38 U	0.25 U	0.15 U	0.51 U	0.25 U	0.25 U	2.5 U	1.5 U	0.15 U	0.25 U
	TMW39S042017	4/19/17	0.43 U	0.21 U	0.21 U	0.21 U	0.21 U	0.13 U	0.21 U	0.32 U	0.21 U	0.13 U	0.43 U	0.21 U	0.21 U	2.1 U	1.3 U	0.13 U	0.21 U
	TMW39S102016	10/27/16	0.43 U	0.22 U	0.22 U	0.22 UJ	0.22 UJ	0.13 UJ	0.22 UJ	0.33 U	0.22 UJ	0.13 UJ	0.43 UJ	0.22 U	0.22 U	2.2 U	1.3 U	0.13 U	0.22 U
TMW40S	TMW40S042018	4/27/18	2.9 J	0.24 U	0.24 U	0.24 U	0.24 U	2.1 J	0.24 U	22 J	0.24 U	1.4 J	0.48 U	62	5.3 J	2.4 U	1.4 U	1000	0.24 U
	TMW40S102017	10/25/17	9.3 J	12 J	0.23 U	0.23 UJ	0.23 UJ	1.6 J	0.23 UJ	24 J	0.23 UJ	1.3 J	0.46 UJ	37 J	4.6 J	2.3 U	1.4 U	1000	0.23 U
	TMW40S042017	4/21/17	47 U	23 U	23 U	23 U	23 U	14 U	23 U	35 U	23 U	14 U	47 U	20 J	23 U	230 U	140 U	1100	23 U
	TMW40S102016	10/2016	Well was dry and was not sampled																
TMW41	TMW41042018	4/25/18	0.42 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.13 UJ	0.21 UJ	0.31 U	0.21 UJ	0.13 UJ	0.42 UJ	0.21 UJ	0.21 U	2.1 UJ	1.3 UJ	0.13 UJ	0.21 UJ
	TMW41102017	10/25/17	0.45 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.13 UJ	0.22 UJ	0.33 UJ	0.22 UJ	0.13 UJ	0.45 UJ	0.22 UJ	0.22 UJ	2.2 UJ	1.3 UJ	0.13 UJ	0.22 UJ
	TMW41042017	4/19/17	0.47 U	0.23 U	0.23 U	0.23 U	0.23 U	0.14 U	0.23 U	0.35 U	0.23 U	0.14 U	0.47 U	0.23 U	0.23 U	2.3 U	1.4 U	0.14 U	0.23 U
	TMW41102016	10/27/16	0.40 U	0.20 U	0.20 U	0.20 UJ	0.20 UJ	0.12 UJ	0.20 UJ	0.30 U	0.20 UJ	0.12 UJ	0.40 UJ	0.20 U	0.20 U	2.0 U	1.2 U	0.12 U	0.20 U

Table 5-3: Summary of Explosives Analytical Results (µg/L)

			1,3,5-Trinitro-benzene	1,3-Dinitro-benzene	2,4,6-Trinitro-toluene	2,4-Dinitro-toluene	2,6-Dinitro-toluene	2-Amino-4,6-Dinitro-toluene	2-Nitro-toluene	3,5-Dinitro-aniline	3-Nitro-toluene	4-Amino-2,6-Dinitro-toluene	4-Nitro-toluene	HMX	Nitro-benzene	Nitro-glycerine*	PETN	RDX	Tetryl
			CAS 99-35-4	CAS 99-65-0	CAS 118-96-7	CAS 121-14-2	CAS 606-20-2	CAS 35572-78-2	CAS 88-72-2	CAS 618-87-1	CAS 99-08-1	CAS 19406-51-0	CAS 99-99-0	CAS 2691-41-0	CAS 98-95-3	CAS 55-63-0	CAS 78-11-5	CAS 121-82-4	CAS 479-45-8
Well Name	Sample Identifier	Sample Date	Screening Value (µg/L) ^{a,b}																
			590	2.0	9.8	2.4	0.49	39	3.1	38	1.7	39	43	1000	1.4	2	39	9.7	39
TMW43	TMW43042018	5/2/18	0.47 U	0.23 U	0.23 U	0.23 U	0.23 U	0.14 UJ	0.23 U	0.35 U	0.23 U	0.14 UJ	0.47 U	0.21 J	0.23 U	2.3 U	1.4 U	3.1	0.23 U
	TMW43042018FD ^c	5/2/18	0.44 U	0.22 U	0.22 U	0.22 U	0.22 U	0.13 U	0.22 U	0.33 U	0.22 U	0.13 U	0.44 U	0.23 J	0.22 U	2.2 U	1.3 U	3.1	0.22 U
	TMW43102017	10/24/17	0.49 U	0.24 U	0.24 U	0.24 U	0.24 U	0.15 U	0.24 U	0.37 U	0.24 UJ	0.15 U	0.49 U	0.14 J	0.24 U	2.4 U	1.5 U	4.0	0.24 U
	TMW43102017FD ^c	10/24/17	0.44 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.13 UJ	0.22 UJ	0.33 UJ	0.22 UJ	0.13 UJ	0.44 UJ	0.22 UJ	0.22 UJ	2.2 UJ	1.3 UJ	3.6 J	0.22 UJ
	TMW43042017	4/27/17	0.45 U	0.22 U	0.22 U	0.22 U	0.22 U	0.13 U	0.22 U	0.34 U	0.35 U	0.13 U	0.45 U	0.21 J	0.30 J	2.2 U	1.3 U	3.8	0.22 U
	DTW43042017 ^c	4/27/17	0.45 U	0.22 U	0.22 U	0.22 U	0.22 U	0.13 U	0.22 U	0.34 U	0.22 U	0.13 U	0.45 U	0.22 U	0.22 U	2.2 U	1.3 U	3.8	0.22 U
	TMW43102016	11/3/16	0.46 U	0.23 U	0.23 U	0.23 UJ	0.23 UJ	0.14 UJ	0.23 UJ	0.35 U	0.23 UJ	0.14 UJ	0.46 UJ	0.22 J	0.23 U	2.3 U	1.4 U	3.6	0.23 U
	DTW43102016 ^c	11/3/16	0.49 U	0.24 U	0.24 U	0.24 UJ	0.24 UJ	0.15 UJ	0.24 UJ	0.37 U	0.24 UJ	0.15 UJ	0.49 UJ	0.35 J	0.24 U	2.4 U	1.5 U	3.9	0.24 U
TMW44	TMW44042018	4/25/18	0.44 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.13 UJ	0.22 UJ	0.33 U	0.22 UJ	0.13 UJ	0.44 UJ	0.22 UJ	0.22 U	2.2 UJ	1.3 UJ	0.13 UJ	0.22 UJ
	TMW44102017	10/25/17	9.2 J	0.25 U	0.25 U	0.25 UJ	0.25 UJ	0.40 J	0.25 UJ	0.37 U	0.25 UJ	0.15 UJ	0.49 UJ	0.25 U	0.25 UJ	2.5 U	1.5 U	0.15 U	0.25 U
	TMW44042017	4/19/17	0.49 U	1.0 J	0.24 U	0.24 U	0.24 U	0.15 U	0.24 U	0.36 U	0.24 U	0.15 U	0.49 U	0.24 U	0.24 U	2.4 U	1.5 U	1.4 J	0.24 U
	TMW44102016	10/27/16	0.45 U	0.23 U	0.23 U	0.24 J	0.23 UJ	0.14 UJ	0.23 UJ	0.34 U	3.9 J	0.14 UJ	0.45 UJ	0.23 U	0.23 U	2.3 U	1.4 U	0.42 J	0.23 U
TMW45	TMW45042018	5/2/18	0.44 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.13 UJ	0.22 UJ	0.33 UJ	0.22 UJ	0.13 UJ	0.44 UJ	0.22 UJ	0.22 UJ	2.2 UJ	1.3 UJ	0.13 UJ	0.22 UJ
	TMW45102017	10/27/17	0.46 U	0.23 UJ	0.23 UJ	0.23 UJ	0.23 UJ	0.14 UJ	0.23 UJ	0.34 UJ	0.23 UJ	0.14 UJ	0.46 UJ	0.23 U	0.23 UJ	2.3 U	1.4 UJ	0.14 U	0.23 UJ
	TMW45042017	4/28/17	0.43 U	0.22 U	0.22 U	0.22 U	0.22 U	0.13 U	0.22 U	0.32 U	0.22 U	0.13 U	0.43 U	0.22 U	0.22 U	2.2 U	1.3 U	0.13 U	0.22 U
	TMW45102016	11/4/16	0.44 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.13 UJ	0.22 UJ	0.33 UJ	0.22 UJ	0.13 UJ	0.44 UJ	0.22 UJ	0.22 UJ	2.2 UJ	1.3 UJ	0.13 UJ	0.22 UJ
	DTW45102016 ^c	11/4/16	0.43 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.13 UJ	0.22 UJ	0.33 UJ	0.22 UJ	0.13 UJ	0.43 UJ	0.22 UJ	0.22 UJ	2.2 UJ	1.3 UJ	0.13 UJ	0.22 UJ
TMW46	TMW46042018	4/25/18	0.42 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.13 UJ	0.21 UJ	0.32 UJ	0.21 UJ	0.13 UJ	0.42 UJ	0.21 UJ	0.21 UJ	2.1 UJ	1.3 UJ	0.13 UJ	0.21 UJ
	TMW46102017	10/25/17	0.51 UJ	0.26 UJ	0.26 UJ	0.26 UJ	0.26 UJ	0.15 UJ	0.26 UJ	0.39 UJ	0.26 UJ	0.15 UJ	0.51 UJ	0.26 UJ	0.26 UJ	2.6 UJ	1.5 UJ	0.15 UJ	0.26 UJ
	TMW46042017	4/20/17	0.44 U	0.22 U	0.22 U	0.22 U	0.22 U	0.13 U	0.22 U	0.33 U	0.22 U	0.13 U	0.44 U	0.22 U	0.22 U	2.2 U	1.3 U	0.13 U	0.22 U
	TMW46102016	10/28/16	0.45 U	0.23 U	0.23 U	0.23 U	0.23 U	0.14 UJ	0.23 UJ	0.34 U	0.23 UJ	0.14 U	0.45 UJ	0.23 U	0.23 U	2.3 U	1.4 U	0.14 U	0.23 U
TMW47	TMW47042018	5/3/18	0.43 U	0.21 U	0.21 U	0.21 U	0.21 U	0.13 U	0.21 U	0.32 U	0.21 U	0.13 U	0.43 U	0.21 U	0.21 U	2.1 U	1.3 U	0.13 U	0.21 U
	TMW47102017	10/26/17	0.45 U	0.22 U	0.22 U	0.22 U	0.22 U	0.13 U	0.22 U	0.33 U	0.22 U	0.13 U	0.45 U	0.22 U	0.22 U	2.2 U	1.3 U	0.13 U	0.22 U
	TMW47042017	4/25/17	0.49 U	0.25 U	0.25 U	0.25 U	0.25 U	0.15 U	0.25 U	0.37 U	0.25 U	0.15 U	0.49 U	0.25 U	0.25 U	2.5 U	1.5 U	0.15 U	0.25 U
	TMW47102016	11/4/16	0.47 U	0.24 UJ	0.24 U	0.24 UJ	0.24 UJ	0.14 UJ	0.24 UJ	0.36 U	0.24 UJ	0.32 J	0.47 UJ	0.68	0.24 U	2.4 U	1.4 U	0.14 U	0.24 U
Northern Bedrock Groundwater Zone																			
BGMW07	BGMW07042018	4/26/18	0.47 U	0.24 U	0.24 U	0.24 U	0.24 U	0.14 UJ	0.24 U	0.35 U	0.24 U	0.14 UJ	0.47 U	0.24 U	0.24 U	2.4 U	1.4 U	0.14 U	0.24 U
BGMW08	BGMW08042018	04/2018	Well was dry and was not sampled																
BGMW09	BGMW09042018	5/1/18	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	0.13 U	0.21 UJ	0.32 U	0.21 U	0.13 U	0.42 U	0.21 U	0.21 U	2.1 U	1.3 U	0.13 U	0.21 U
BGMW10	BGMW10042018	4/27/18	0.46 U	0.23 U	0.23 U	0.23 U	0.23 U	0.14 UJ	0.23 U	0.35 U	0.23 U	0.14 UJ	0.46 U	0.23 U	0.23 U	2.3 U	1.4 U	0.14 U	0.23 U
TMW02	TMW02042018	5/1/18	0.46 UJ	0.23 UJ	0.23 UJ	0.23 UJ	0.23 UJ	0.41 J	0.23 UJ	0.34 J	0.23 UJ	0.40 J	0.46 UJ	0.23 U	0.23 UJ	2.3 UJ	1.4 UJ	0.14 U	0.23 UJ
	TMW02102017	10/24/17	0.44 U	0.22 U	0.22 U	0.22 U	0.22 U	0.17 J	0.22 U	0.30 J	0.53 UJ	0.15 J	0.44 U	0.22 U	0.22 U	2.2 U	1.3 U	0.13 U	0.22 U
	TMW02042017	4/24/17	0.47 U	0.24 U	0.24 U	0.24 U	0.24 U	0.83	0.24 U	0.34 J	0.24 U	0.63	0.47 U	0.24 U	0.24 U	2.4 U	1.4 U	0.56	0.24 U
	TMW02102016	11/1/16	0.45 U	0.23 U	0.23 U	0.23 U	0.23 U	0.14 UJ	0.23 U	0.34 U	0.23 U	0.25 J	0.45 U	0.23 U	0.23 U	2.3 U	1.4 U	0.14 U	0.23 U
TMW14A	TMW14A042018	5/3/18	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	0.13 U	0.21 U	0.31 U	0.21 U	0.13 U	0.42 U	0.21 U	0.21 U	2.1 U	1.3 U	0.13 U	0.21 U
	TMW14A102017	10/26/17	0.45 U	0.22 U	0.22 U	0.22 U	0.22 U	0.13 U	0.22 U	0.33 U	0.22 U	0.13 U	0.45 U	0.22 U	0.22 U	2.2 U	1.3 U	0.13 U	0.22 U
	TMW14A042017	4/27/17	0.44 U	0.22 U	0.22 U	0.22 U	0.22 U	0.13 U	0.22 U	0.33 U	0.22 U	0.13 U	0.44 U	0.22 U	0.22 U	2.2 U	1.3 U	0.13 U	0.22 U
	TMW14A102016	11/3/16	0.45 U	0.22 U	0.22 U	0.22 UJ	0.22 UJ	0.13 UJ	0.22 UJ	0.34 U	0.22 UJ	0.13 UJ	0.45 UJ	0.22 U	0.22 U	2.2 U	1.3 U	0.13 U	0.22 U

Table 5-3: Summary of Explosives Analytical Results (µg/L)

			1,3,5-Trinitro-benzene	1,3-Dinitro-benzene	2,4,6-Trinitro-toluene	2,4-Dinitro-toluene	2,6-Dinitro-toluene	2-Amino-4,6-Dinitro-toluene	2-Nitro-toluene	3,5-Dinitro-aniline	3-Nitro-toluene	4-Amino-2,6-Dinitro-toluene	4-Nitro-toluene	HMX	Nitro-benzene	Nitro-glycerine*	PETN	RDX	Tetryl
			CAS 99-35-4	CAS 99-65-0	CAS 118-96-7	CAS 121-14-2	CAS 606-20-2	CAS 35572-78-2	CAS 88-72-2	CAS 618-87-1	CAS 99-08-1	CAS 19406-51-0	CAS 99-99-0	CAS 2691-41-0	CAS 98-95-3	CAS 55-63-0	CAS 78-11-5	CAS 121-82-4	CAS 479-45-8
Well Name	Sample Identifier	Sample Date	Screening Value (µg/L) ^{a,b}																
			590	2.0	9.8	2.4	0.49	39	3.1	38	1.7	39	43	1000	1.4	2	39	9.7	39
TMW16	TMW16042018	4/25/18	0.44 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.13 UJ	0.22 UJ	0.33 UJ	0.22 UJ	0.13 UJ	0.44 UJ	0.22 UJ	0.22 UJ	2.2 UJ	1.3 UJ	0.13 UJ	0.22 UJ
	TMW16102017	10/20/17	0.46 U	0.23 U	0.23 U	0.23 U	0.23 U	0.14 U	0.23 U	0.34 U	0.23 U	0.14 U	0.46 U	0.23 U	0.23 U	2.3 U	1.4 U	0.14 U	0.23 U
	TMW16042017	4/20/17	0.45 U	0.23 U	0.23 U	0.23 U	0.23 U	0.14 U	0.23 U	0.34 U	0.23 U	0.14 U	0.45 U	0.23 U	0.23 U	2.3 U	1.4 U	0.14 U	0.23 U
	TMW16102016	10/28/16	0.44 U	0.22 U	0.22 U	0.22 U	0.22 U	0.13 UJ	0.22 UJ	0.33 U	0.22 UJ	0.13 U	0.44 UJ	0.22 U	0.22 U	2.2 U	1.3 U	0.13 U	0.22 U
TMW18	TMW18042018	4/25/18	0.42 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.12 UJ	0.21 UJ	0.31 U	0.21 UJ	0.12 UJ	0.42 UJ	0.21 UJ	0.21 U	2.1 UJ	1.2 UJ	0.12 UJ	0.21 UJ
	TMW18102017	10/19/17	0.48 UJ	0.24 UJ	0.24 UJ	0.24 UJ	0.24 UJ	0.14 UJ	0.24 UJ	0.36 UJ	0.24 UJ	0.14 UJ	0.48 UJ	0.24 UJ	0.24 UJ	2.4 UJ	1.4 UJ	0.14 UJ	0.24 UJ
	TMW18042017	4/20/17	0.43 U	0.22 U	0.22 U	0.22 U	0.22 U	0.13 U	0.22 U	0.33 U	0.22 U	0.13 U	0.43 U	0.22 U	0.22 U	2.2 U	1.3 U	0.058 J	0.22 U
	TMW18102016	10/28/16	0.44 U	0.22 U	0.22 U	0.22 U	0.22 U	0.13 UJ	0.22 UJ	0.33 U	0.22 UJ	0.13 U	0.44 UJ	0.22 U	0.22 U	2.2 U	1.3 U	0.13 UJ	0.22 U
TMW19	TMW19042018	4/25/18	0.41 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.12 UJ	0.20 UJ	0.30 UJ	0.20 UJ	0.12 UJ	0.41 UJ	0.20 UJ	0.20 UJ	2.0 UJ	1.2 UJ	0.12 UJ	0.20 UJ
	TMW19102017	10/19/17	0.45 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.13 UJ	0.22 UJ	0.34 UJ	0.22 UJ	0.13 UJ	0.45 UJ	0.22 UJ	0.22 UJ	2.2 UJ	1.3 UJ	0.13 UJ	0.22 UJ
	TMW19042017	4/20/17	0.43 U	0.21 U	0.21 U	0.21 U	0.21 U	0.13 U	0.21 U	0.32 U	0.21 U	0.13 U	0.43 U	0.21 U	0.21 U	2.1 U	1.3 U	0.13 U	0.21 U
	TMW19102016	10/28/16	0.48 U	0.24 U	0.24 U	0.24 U	0.24 U	0.14 UJ	0.24 UJ	0.36 U	0.24 UJ	0.14 U	0.48 UJ	0.24 U	0.24 U	2.4 U	1.4 U	0.14 UJ	0.24 U
	DTW19102016 ^c	10/28/16	0.48 U	0.24 U	0.24 U	0.24 U	0.24 U	0.14 UJ	0.24 UJ	0.36 U	0.24 UJ	0.14 U	0.48 UJ	0.24 U	0.24 U	2.4 U	1.4 U	0.14 UJ	0.24 U
TMW30	TMW30042018	4/26/18	0.49 U	0.25 U	0.25 U	0.25 U	0.25 U	0.15 UJ	0.25 U	0.37 U	0.25 U	0.15 UJ	0.49 U	0.25 U	0.25 U	2.5 U	1.5 U	0.15 U	0.25 U
	TMW30102017	10/25/17	0.49 UJ	0.25 UJ	0.25 UJ	0.25 UJ	0.25 UJ	0.15 UJ	0.25 UJ	0.37 UJ	0.25 UJ	0.15 UJ	0.49 UJ	0.25 UJ	0.25 UJ	2.5 UJ	1.5 UJ	0.15 UJ	1.1 J
	TMW30042017	4/19/17	0.47 U	0.23 U	0.23 U	0.23 U	0.23 U	0.14 U	0.23 U	0.35 U	0.23 U	0.14 U	0.47 U	0.23 U	0.23 U	2.3 U	1.4 U	0.14 U	0.23 U
	TMW30102016	10/26/16	0.45 U	0.22 U	0.22 U	0.22 U	0.22 U	0.13 U	0.22 U	0.33 U	0.22 U	0.13 U	0.45 U	0.22 U	0.22 U	2.2 U	1.3 U	0.13 U	0.22 U
TMW31D	TMW31D042018	5/2/18	0.48 U	0.24 U	0.24 U	0.24 U	0.24 U	0.14 U	0.24 U	0.36 U	0.24 U	0.14 U	0.48 U	0.24 U	0.24 U	2.4 U	1.4 U	0.14 U	0.24 U
	TMW31D042018FD ^c	5/2/18	0.48 UJ	0.24 UJ	0.24 UJ	0.24 UJ	0.24 UJ	0.14 UJ	0.24 UJ	0.36 UJ	0.24 UJ	0.14 UJ	0.48 UJ	0.24 UJ	0.24 UJ	2.4 UJ	1.4 UJ	0.14 UJ	0.24 UJ
	TMW31D102017	10/26/17	0.48 U	0.24 U	0.24 U	0.24 U	0.24 U	0.14 U	0.24 U	0.36 U	0.24 U	0.14 U	0.48 U	0.24 U	0.24 U	2.4 U	1.4 U	0.14 U	0.24 U
	TMW31D102017FD ^c	10/26/17	0.45 U	0.22 U	0.22 U	0.22 U	0.22 U	0.13 U	0.22 U	0.33 U	0.22 U	0.13 U	0.45 U	0.22 U	0.22 U	2.2 U	1.3 U	0.13 U	0.22 U
	TMW31D042017	4/27/17	0.43 U	0.22 U	0.22 U	0.22 U	0.22 U	0.13 U	0.22 U	0.32 U	0.22 U	0.13 U	0.43 U	0.22 U	0.22 U	2.2 U	1.3 U	0.13 U	0.22 U
	DTW31D042017 ^c	4/27/17	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	0.13 U	0.21 U	0.32 U	0.21 U	0.13 U	0.42 U	0.21 U	0.21 U	2.1 U	1.3 U	0.13 U	0.21 U
	TMW31D102016	10/31/16	0.43 U	0.22 U	0.22 U	0.22 U	0.22 U	0.13 UJ	0.22 U	0.32 U	0.22 U	0.13 UJ	0.43 U	0.22 U	0.22 U	2.2 U	1.3 U	0.13 U	0.22 U
	DTW31D102016 ^c	10/31/16	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	0.13 UJ	0.21 U	0.32 U	0.21 U	0.13 UJ	0.42 U	0.21 U	0.21 U	2.1 U	1.3 U	0.13 U	0.21 U
TMW32	TMW32042018	5/1/18	0.45 U	0.23 U	0.23 U	0.23 U	0.23 U	0.14 U	0.23 U	0.34 U	0.23 U	0.14 U	0.45 U	0.23 U	0.23 U	2.3 U	1.4 U	0.14 U	0.23 U
	TMW32102017	10/20/17	0.43 U	0.22 U	0.22 U	0.22 U	0.22 U	0.13 U	0.22 U	0.33 U	0.22 U	0.13 U	0.43 U	0.22 U	0.22 U	2.2 U	1.3 U	0.13 U	0.22 U
	TMW32042017	4/27/17	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	0.13 U	0.21 U	0.31 U	0.21 U	0.13 U	0.42 U	0.21 U	0.21 U	2.1 U	1.3 U	0.13 U	0.21 U
	TMW32102016	11/2/16	0.44 U	0.22 U	0.22 U	0.22 U	0.22 U	0.13 U	0.22 U	0.33 U	0.22 U	0.13 U	0.44 U	0.22 U	0.22 U	2.2 U	1.3 U	0.13 U	0.22 U
TMW36	TMW36042018	4/25/18	0.44 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.13 UJ	0.22 UJ	1.5 J	0.22 UJ	0.13 UJ	0.44 UJ	0.22 UJ	0.22 UJ	2.2 UJ	1.3 UJ	0.13 UJ	0.22 UJ
	TMW36102017	10/19/17	0.46 U	0.26 J	0.23 U	0.23 UJ	0.23 UJ	0.14 UJ	0.23 UJ	0.35 U	0.32 J	0.14 UJ	0.46 UJ	0.23 U	0.23 U	2.3 U	1.4 U	0.14 U	0.23 U
	TMW36042017	4/20/17	0.43 U	0.21 U	0.21 U	0.21 U	0.21 U	0.13 U	0.21 U	0.32 U	0.21 U	0.13 U	0.43 U	0.21 U	0.21 U	2.1 U	1.3 U	0.13 U	0.21 U
	TMW36102016	10/27/16	0.42 U	0.21 U	0.21 U	0.21 UJ	0.21 UJ	0.13 UJ	0.21 UJ	0.32 U	0.21 UJ	0.13 UJ	0.42 UJ	0.21 U	0.21 U	2.1 U	1.3 U	0.18 UJ	0.21 U
TMW37	TMW37042018	4/25/18	0.42 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.12 UJ	0.21 UJ	0.31 UJ	0.21 UJ	0.12 UJ	0.42 UJ	0.21 UJ	0.21 UJ	2.1 UJ	1.2 UJ	0.12 UJ	0.21 UJ
	TMW37102017	10/20/17	0.45 U	0.22 U	0.22 U	0.22 U	0.22 U	0.13 U	0.22 U	0.34 U	0.22 U	0.13 U	0.45 U	0.22 U	0.22 U	2.2 U	1.3 U	0.13 U	0.22 U
	TMW37042017	4/20/17	0.43 U	0.22 U	0.22 U	0.22 U	0.22 U	0.13 U	0.22 U	0.32 U	0.22 U	0.13 U	0.43 U	0.22 U	0.22 U	2.2 U	1.3 U	0.13 U	0.22 U
	TMW37102016	10/27/16	0.43 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.13 UJ	0.22 UJ	0.32 UJ	0.22 UJ	0.13 UJ	0.43 UJ	0.22 UJ	0.22 UJ	2.2 UJ	1.3 UJ	0.13 UJ	0.22 UJ

Table 5-3: Summary of Explosives Analytical Results (µg/L)

			1,3,5-Trinitro-benzene	1,3-Dinitro-benzene	2,4,6-Trinitro-toluene	2,4-Dinitro-toluene	2,6-Dinitro-toluene	2-Amino-4,6-Dinitro-toluene	2-Nitro-toluene	3,5-Dinitro-aniline	3-Nitro-toluene	4-Amino-2,6-Dinitro-toluene	4-Nitro-toluene	HMX	Nitro-benzene	Nitro-glycerine*	PETN	RDX	Tetryl
			CAS 99-35-4	CAS 99-65-0	CAS 118-96-7	CAS 121-14-2	CAS 606-20-2	CAS 35572-78-2	CAS 88-72-2	CAS 618-87-1	CAS 99-08-1	CAS 19406-51-0	CAS 99-99-0	CAS 2691-41-0	CAS 98-95-3	CAS 55-63-0	CAS 78-11-5	CAS 121-82-4	CAS 479-45-8
Well Name	Sample Identifier	Sample Date	Screening Value (µg/L) ^{a,b}																
			590	2.0	9.8	2.4	0.49	39	3.1	38	1.7	39	43	1000	1.4	2	39	9.7	39
TMW38	TMW38042018	5/1/18	0.46 U	0.23 U	0.23 U	0.23 U	0.23 U	0.14 U	0.23 U	0.35 U	0.23 U	0.14 U	0.46 U	0.23 U	0.23 U	2.3 U	1.4 U	0.14 U	0.23 U
	TMW38102017	10/26/17	0.43 U	0.22 U	0.22 U	0.22 U	0.22 U	0.13 U	0.22 U	0.32 U	0.22 U	0.13 U	0.43 U	0.22 U	0.22 U	2.2 U	1.3 U	0.13 U	0.22 U
	TMW38042017	4/26/17	0.46 U	0.23 U	0.23 U	0.23 U	0.23 U	0.14 U	0.23 U	0.34 U	0.23 U	0.14 U	0.46 U	0.23 U	0.23 U	2.3 U	1.4 U	0.14 U	0.23 U
	TMW38102016	11/4/16	0.44 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.13 UJ	0.22 UJ	0.33 UJ	0.22 UJ	0.13 J	0.44 UJ	0.22 UJ	0.22 UJ	2.2 UJ	1.3 UJ	0.13 UJ	0.22 UJ
TMW39D	TMW39D042018	5/3/18	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	0.13 U	0.21 U	0.31 U	0.21 U	0.13 U	0.42 U	0.21 U	0.21 U	2.1 U	1.3 U	0.13 U	0.21 U
	TMW39D102017	10/27/17	0.46 U	0.23 UJ	0.23 UJ	0.23 UJ	0.23 UJ	0.14 UJ	0.23 UJ	0.34 UJ	0.23 UJ	0.14 UJ	0.46 UJ	0.23 U	0.23 UJ	2.3 U	1.4 UJ	0.14 U	0.23 UJ
	TMW39D042017	4/27/17	0.44 U	0.22 U	0.22 U	0.22 U	0.22 U	0.13 U	0.22 U	0.33 U	0.22 U	0.13 U	0.44 U	0.22 U	0.22 U	2.2 U	1.3 U	0.13 U	0.22 U
	TMW39D102016	10/31/16	0.41 U	0.21 U	0.21 U	0.21 U	0.21 U	0.12 UJ	0.21 U	0.31 U	0.21 U	0.12 UJ	0.41 U	0.21 U	0.21 U	2.1 U	1.2 U	0.12 U	0.21 U
TMW40D	TMW40D042018	5/1/18	0.44 U	0.22 U	0.22 U	0.22 U	0.22 U	0.13 U	0.22 U	0.33 U	0.22 U	0.13 U	0.44 U	0.22 U	0.22 U	2.2 U	1.3 U	0.13 U	0.22 U
	TMW40D102017	10/23/17	0.44 U	0.22 U	0.22 U	0.22 U	0.22 U	0.13 U	0.22 U	0.33 U	0.22 U	0.13 U	0.44 U	0.22 U	0.22 U	2.2 U	1.3 U	0.13 U	0.22 U
	TMW40D042017	4/25/17	0.48 U	0.24 U	0.24 U	0.24 U	0.24 U	0.14 U	0.24 U	0.36 U	0.24 U	0.14 U	0.48 U	0.24 U	0.24 U	2.4 U	1.4 U	0.14 U	0.24 U
	TMW40D102016	10/31/16	0.44 U	0.22 U	0.22 U	0.22 U	0.22 U	0.13 UJ	0.22 U	0.33 U	0.22 U	0.13 UJ	0.44 U	0.22 U	0.22 U	2.2 U	1.3 U	0.13 U	0.22 U
TMW48	TMW48042018	5/2/18	0.44 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.13 UJ	0.22 UJ	0.33 UJ	0.22 UJ	0.13 UJ	0.44 UJ	0.22 UJ	0.22 UJ	2.2 UJ	1.3 UJ	0.13 UJ	0.22 UJ
	TMW48102017	10/27/17	0.45 UJ	0.23 UJ	0.23 UJ	0.23 UJ	0.23 UJ	0.14 UJ	0.23 UJ	0.34 UJ	0.23 UJ	0.14 UJ	0.45 UJ	0.23 UJ	0.23 UJ	2.3 UJ	1.4 UJ	0.23 J	0.23 UJ
	TMW48042017	4/26/17	0.48 U	0.24 U	0.24 U	0.24 U	0.24 U	0.14 U	0.24 U	0.36 U	0.24 U	0.14 U	0.48 U	0.24 U	0.24 U	2.4 U	1.4 U	0.14 U	0.24 U
	TMW48102016	11/1/16	0.43 U	0.21 U	0.21 U	0.21 U	0.21 U	0.13 UJ	0.21 U	0.32 U	0.21 U	0.13 UJ	0.43 U	0.21 U	0.21 U	2.1 U	1.3 U	0.13 U	0.21 U
TMW49	TMW49042018	5/4/18	0.44 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.13 UJ	0.22 UJ	0.33 UJ	0.22 UJ	0.13 UJ	0.44 UJ	0.22 UJ	0.22 UJ	2.2 UJ	1.3 UJ	0.13 UJ	0.22 UJ
	TMW49102017	10/27/17	0.48 UJ	0.24 UJ	0.24 UJ	0.24 UJ	0.24 UJ	0.14 UJ	0.24 UJ	0.36 UJ	0.24 UJ	0.14 UJ	0.48 UJ	0.24 UJ	0.24 UJ	2.4 UJ	1.4 UJ	0.14 UJ	0.24 UJ
	TMW49042017	4/26/17	0.44 U	0.22 U	0.22 U	0.22 U	0.22 U	0.13 U	0.22 U	0.33 U	0.22 U	0.13 U	0.44 U	0.22 U	0.22 U	2.2 U	1.3 U	0.13 U	0.22 U
	TMW49102016	11/2/16	0.44 U	0.22 U	0.22 U	0.22 U	0.22 U	0.13 U	0.22 U	0.33 U	0.22 U	0.13 U	0.44 U	0.22 U	0.22 U	2.2 U	1.3 U	0.13 U	0.22 U

Notes:
* Due to potential cross contamination from lab quality control samples, certain LODs were skewed higher than the screening values. All UJ flags with a value significantly greater than the screening value have been bolded.

^a Explosives are analyzed using EPA Method 8330B.

^b EPA Region 6 regional screening levels EPA, 2019. <https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables>

^c Indicates a field duplicate sample.

^d The original batch containing the sample for TMW06 was spiked incorrectly by the laboratory. A replacement sample volume was collected for TMW06 due to its proximity to the explosives plume. Results from the analysis of this resample are included in this table.

^e The concentration reported in April 2017 for TMW03042017 was 4 µg/L. The concentration has been corrected to 400 µg/L.

Bolded values indicate analyte was positively detected above screening values.

Table 5-3: Summary of Explosives Analytical Results (µg/L)

Acronyms and Abbreviations:
µg/L = microgram per liter
CAS = Chemical Abstracts Service (registry number)
EPA = U.S. Environmental Protection Agency
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
J = (Estimated) The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to nonconformances discovered during data validation.
LOD = limit of detection
NA = not analyzed
NE = not established
Petrn = pentaerythritol tetranitrate
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
tetryl = methyl-2,4,6-trinitrophenylnitramine
U = (Non-detected) The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).
UJ = (Non-detected estimated) The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.

Table 5-4: Summary of Perchlorate Analytical Results (µg/L)

			Perchlorate
			CAS 14797-73-0
Well Name	Sample Identifier	Sample Date	Screening Value (µg/L) ^a
			15 ^b
Northern Alluvial Groundwater Zone			
BGMW01	BGMW01042018	04/27/18	0.010 U
	BGMW01102017	10/23/17	0.10 U
	BGMW01042017	4/24/17	0.010 UJ
	BGMW01102016	11/2/16	0.010 U
BGMW02	BGMW02042018	04/26/18	0.59
	BGMW02102017	10/20/17	0.38
	BGMW02042017	4/21/17	0.45 J
	BGMW02102016	11/2/16	0.48 J
BGMW03	BGMW03042018	04/24/18	0.010 U
	BGMW03102017	10/19/17	0.010 U
	BGMW03042017	4/20/17	0.013 J
	BGMW03102016	10/28/16	0.015 J
FW35	Well has been dry	since 2015	Not sampled
MW01	MW01042018	04/23/18	0.10 U
	MW01102017	10/24/17	0.010 U
	MW01042017	4/19/17	0.010 U
	MW01102016	10/27/16	0.010 U
MW02	MW02042018	04/23/18	0.048 J
	MW02102017	10/24/17	0.058
	MW02042017	4/19/17	0.073
	MW02102016	10/27/16	0.10
MW03	MW03042018	04/27/18	0.01 U
	MW03102017	10/23/17	0.10 U
	MW03042017	4/21/17	0.010 UJ
	MW03102016	11/3/16	0.010 U
MW18D	MW18D042018	04/25/18	0.010 U
	MW18D102017	10/19/17	0.10 U
	MW18D042017	4/20/17	0.050 U
	MW18D102016	10/28/16	0.010 U
MW18S	Well has been dry	since 2011	Not sampled
MW20	MW20042018	04/30/18	0.39 J
	MW20102017	10/23/17	0.34 J
	MW20042017	4/24/17	0.23 J
	MW20102016	11/4/16	0.23 J
MW22D	MW22D042018	04/27/18	1.2 J
	MW22D102017	10/23/17	0.99 J
	MW22D042017	4/19/17	0.74
	MW22D102016	10/28/16	0.82

Table 5-4: Summary of Perchlorate Analytical Results (µg/L)

			Perchlorate
			CAS 14797-73-0
Well Name	Sample Identifier	Sample Date	Screening Value (µg/L) ^a
			15 ^b
MW22S	MW22S042018	Well was dry and was not sampled.	
	MW22S102017	Well was dry and was not sampled.	
	MW22S042017	Well was dry and was not sampled.	
	MW22S102016	Well was dry and was not sampled.	
MW23	MW23042018	04/24/18	0.010 U
	MW23042018FD ^c	04/24/18	0.010 UJ
	MW23102017	10/18/17	0.010 U
	MW23102017FD ^c	10/18/17	0.010 U
	MW23042017	4/18/17	0.010 U
	DMW23042017 ^c	4/18/17	0.010 U
	MW23102016	10/27/16	0.010 U
MW24	MW24042018	04/23/18	0.010 U
	MW24042018FD ^c	04/23/18	0.010 U
	MW24102017	10/17/17	0.050
	MW24102017FD 01 ^c	10/17/17	0.010 U
	MW24042017	4/17/17	0.010 U
	DMW24042017 ^c	4/17/17	0.010 U
	MW24102016	10/26/16	0.010 U
	DMW24102016 ^c	10/26/16	0.010 U
SMW01	SMW01042018	04/26/18	0.10 U
	SMW01102017	10/20/17	0.010 U
	SMW01042017	4/21/17	0.010 UJ
	SMW01102016	11/2/16	0.010 U
TMW01	TMW01042018	05/04/18	270 J
	TMW01102017	10/27/17	2.9
	TMW01042017	4/25/17	310
	TMW01102016	10/31/16	290
TMW03	TMW03042018	04/30/18	0.71
	TMW03102017	10/25/17	0.70
	TMW03042017	4/24/17	0.82
	TMW03102016	10/31/16	0.78
TMW04	TMW04042018	05/02/18	0.28
	TMW04102017	10/25/17	0.32 J
	TMW04042017	4/24/17	0.36 J
	TMW04102016	11/3/16	0.31
TMW08	TMW08042018	04/27/18	0.010 U
	TMW08102017	10/20/17	0.23 J
	TMW08042017	4/21/17	0.050 UJ
	TMW08102016	11/1/16	0.010 U
	DTW08102016 ^c	11/1/16	0.010 U

Table 5-4: Summary of Perchlorate Analytical Results (µg/L)

Well Name	Sample Identifier	Sample Date	Perchlorate
			CAS
			14797-73-0
			Screening Value (µg/L) ^a
			15 ^b
TMW10	TMW10042018	04/24/18	0.010 U
	TMW10102017	10/25/17	0.10 U
	TMW10042017	4/21/17	0.010 UJ
	TMW10102016	11/2/16	0.010 U
TMW11	TMW11042018	05/02/18	0.15
	TMW11102017	10/27/17	0.15
	TMW11042017	4/26/17	0.19
	TMW11102016	11/3/16	0.13
	DTW11102016 ^c	11/3/16	0.13
TMW13	TMW13042018	05/01/18	0.12
	TMW13102017	10/26/17	0.1
	TMW13042017	4/25/17	0.11
	TMW13102016	11/1/16	0.10
TMW15	TMW15042018	05/03/18	0.085
	TMW15042018FD ^c	05/03/18	0.084
	TMW15102017	10/26/17	0.094
	TMW15102017FD ^c	10/26/17	0.095
	TMW15042017	4/27/17	0.095 J
	DTW15042017 ^c	4/27/17	0.10 J
	TMW15102016	11/2/16	0.13 J
TMW21	TMW21042018	05/01/18	0.010 U
	TMW21102017	10/25/17	0.010 U
	TMW21042017	4/26/17	0.10 U
	TMW21102016	10/27/16	0.010 U
TMW22	TMW22042018	04/25/18	0.010 U
	TMW22102017	10/25/17	0.010 U
	TMW22042017	4/19/17	0.025 J
	TMW22102016	10/27/16	0.14
TMW23	TMW23042018	04/25/18	0.021 J
	TMW23102017	10/19/17	0.044 J
	TMW23042017	4/20/17	0.12 J
	TMW23102016	10/28/16	0.043 J
TMW24	TMW24042018	04/30/18	0.010 U
	TMW24102017	10/24/17	0.010 U
	TMW24042017	4/25/17	0.010 U
	TMW24102016	11/3/16	0.010 U

Table 5-4: Summary of Perchlorate Analytical Results (µg/L)

Well Name	Sample Identifier	Sample Date	Perchlorate
			CAS
			14797-73-0
			Screening Value (µg/L) ^a
			15 ^b
TMW26	TMW26042018	04/26/18	0.10 U
	TMW26042018FD ^c	04/26/18	0.10 U
	TMW26102017	10/17/17	0.010 U
	TMW26102017FD ^c	10/17/17	0.010 U
	TMW26042017	4/20/17	0.010 UJ
	DTW26042017 ^c	4/20/17	0.010 UJ
	TMW26102016	11/1/16	0.010 U
TMW27	TMW27042018	04/26/18	0.010 U
	TMW27102017	10/20/17	0.010 U
	TMW27042017	4/21/17	0.010 UJ
	TMW27102016	11/3/16	0.010 U
TMW29	TMW29042018	04/23/18	0.084
	TMW29102017	10/20/17	0.057
	TMW29042017	4/20/17	0.094 J
	TMW29102016	10/28/16	0.082
TMW31S	TMW31S042018	04/25/18	500
	TMW31S102017	10/25/17	480
	TMW31S042017	4/19/17	490
	TMW31S102016	10/27/16	470
TMW34	TMW34042018	04/27/18	0.23
	TMW34042018FD ^c	04/27/18	0.27
	TMW34102017	10/25/17	0.027 J
	TMW34102017FD ^c	10/25/17	0.03 J
	TMW34042017	4/24/17	0.33
	DTW34042017 ^c	4/24/17	0.32
	TMW34102016	11/1/16	0.38
TMW35	TMW35042018	04/27/18	0.041 J
	TMW35102017	10/23/17	0.10 U
	TMW35042017	4/24/17	0.10 U
	TMW35102016	10/31/16	0.064
	DTW35102016 ^c	10/31/16	0.067
TMW39S	TMW39S042018	04/25/18	380
	TMW39S102017	10/18/17	710
	TMW39S042017	4/19/17	700
	TMW39S102016	10/27/16	660
TMW40S	TMW40S042018	04/27/18	2.3
	TMW40S102017	10/27/17	2.2
	TMW40S042017	4/21/17	2.8 J
	TMW40S102016	Well was dry and was not sampled.	

Table 5-4: Summary of Perchlorate Analytical Results (µg/L)

			Perchlorate
			CAS 14797-73-0
Well Name	Sample Identifier	Sample Date	Screening Value (µg/L) ^a
			15 ^b
TMW41	TMW41042018	04/25/18	8.8
	TMW41102017	10/25/17	8.1
	TMW41042017	4/19/17	6.5
	TMW41102016	10/27/16	4.4
TMW43	TMW43042018	05/02/18	0.050 U
	TMW43042018FD ^c	05/02/18	0.010 U
	TMW43102017	10/24/17	0.010 U
	TMW43102017FD ^c	10/24/17	0.010 U
	TMW43042017	4/27/17	0.10 U
	DTW43042017 ^c	4/27/17	0.10 U
	TMW43102016	11/3/16	0.010 U
	DTW43102016 ^c	11/3/16	0.010 U
TMW44	TMW44042018	04/25/18	0.014 J
	TMW44102017	10/25/17	0.10 U
	TMW44042017	4/19/17	0.014 J
	TMW44102016	10/27/16	0.020 J
TMW45	TMW45042018	05/02/18	0.010 U
	TMW45102017	10/27/17	0.010 U
	TMW45042017	4/28/17	0.10 U
	TMW45102016	11/4/16	0.010 U
	DTW45102016 ^c	11/4/16	0.010 U
TMW46	TMW46042018	04/25/18	0.20
	TMW46102017	10/25/17	0.23 J
	TMW46042017	4/20/17	0.24 J
	TMW46102016	10/28/16	0.30
TMW47	TMW47042018	05/03/18	0.010 U
	TMW47102017	10/26/17	0.10 U
	TMW47042017	4/25/17	0.10 U
	TMW47102016	11/4/16	0.010 U
Northern Bedrock Groundwater Zone			
BGMW07	BGMW07042018	4/26/18	0.010 U
BGMW08	BGMW08042018	Well was dry and was not sampled.	
BGMW09	BGMW09042018	5/1/18	0.010 U
BGMW10	BGMW10042018	4/27/18	0.010 U
TMW02	TMW02042018	05/01/18	3.7
	TMW02102017	10/24/17	3.4
	TMW02042017	4/24/17	3.3
	TMW02102016	11/1/16	3.3

Table 5-4: Summary of Perchlorate Analytical Results (µg/L)

			Perchlorate
			CAS
			14797-73-0
Well Name	Sample Identifier	Sample Date	Screening Value (µg/L) ^a
			15 ^b
TMW16	TMW16042018	04/25/18	0.010 U
	TMW16102017	10/20/17	0.010 U
	TMW16042017	4/20/17	0.010 UJ
	TMW16102016	10/28/16	0.010 U
TMW17	TMW17042018	05/03/18	0.010 U
	TMW17102017	10/26/17	0.10 U
	TMW17042017	4/27/17	0.10 U
	TMW17102016	11/4/16	0.010 U
TMW18	TMW18042018	04/25/18	0.055
	TMW18102017	10/19/17	0.10 U
	TMW18042017	4/20/17	0.010 UJ
	TMW18102016	10/28/16	0.010 U
TMW19	TMW19042018	04/25/18	0.010 U
	TMW19102017	10/19/17	0.010 U
	TMW19042017	4/20/17	0.010 UJ
	TMW19102016	10/28/16	0.0082 J
	DTW19102016 ^c	10/28/16	0.010 U
TMW30	TMW30042018	04/26/18	1100
	TMW30102017	10/25/17	830
	TMW30042017	4/19/17	1100
	TMW30102016	10/26/16	1100
TMW31D	TMW31D042018	05/02/18	1100
	TMW31D042018FD ^c	05/02/18	1100
	TMW31D102017	10/26/17	1000
	TMW31D102017FD ^c	10/26/17	990
	TMW31D042017	4/27/17	1100 J
	DTW31D042017 ^c	4/27/17	1100 J
	TMW31D102016	10/31/16	1300
	DTW31D102016 ^c	10/31/16	1600
TMW32	TMW32042018	05/01/18	520
	TMW32102017	10/20/17	350
	TMW32042017	4/27/17	360
	TMW32102016	11/2/16	490 J
TMW36	TMW36042018	04/25/18	0.17 J
	TMW36102017	10/19/17	0.010 U
	TMW36042017	4/20/17	0.010 UJ
	TMW36102016	10/27/16	0.010 U

Table 5-4: Summary of Perchlorate Analytical Results (µg/L)

Well Name	Sample Identifier	Sample Date	Perchlorate
			CAS
			14797-73-0
			Screening Value (µg/L) ^a
			15 ^b
TMW37	TMW37042018	04/25/18	0.010 U
	TMW37102017	10/20/17	0.010 U
	TMW37042017	4/20/17	0.010 UJ
	TMW37102016	10/27/16	0.010 U
TMW38	TMW38042018	05/01/18	0.010 U
	TMW38102017	10/26/17	0.10 U
	TMW38042017	4/26/17	0.10 U
	TMW38102016	11/4/16	0.010 U
TMW39D	TMW39D042018	05/03/18	41
	TMW39D102017	10/27/17	56
	TMW39D042017	4/27/17	6.0 J
	TMW39D102016	10/31/16	460
TMW40D	TMW40D042018	05/01/18	330
	TMW40D102017	10/23/17	230
	TMW40D042017	4/25/17	310
	TMW40D102016	10/31/16	290
TMW48	TMW48042018	05/02/18	860
	TMW48102017	10/27/17	970
	TMW48042017	4/26/17	1100
	TMW48102016	11/1/16	1000
TMW49	TMW49042018	05/04/18	1400 J
	TMW49102017	10/27/17	950
	TMW49042017	4/26/17	1500
	TMW49102016	11/2/16	1000 J

Notes:

^a Perchlorate is analyzed using EPA Method 6860.

^b EPA drinking water maximum contaminant level: EPA, 2018.

<https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables>

^c Indicates a field duplicate sample.

Bolded values indicate analyte was positively detected above screening values.

Table 5-4: Summary of Perchlorate Analytical Results (µg/L)

Acronyms and Abbreviations:

µg/L = microgram per liter

CAS = Chemical Abstracts Service (registry number)

EPA = U.S. Environmental Protection Agency

J = (Estimated) The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to nonconformances discovered during data validation.

U = (Non-detected) The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).

UJ = (Non-detected estimated) The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.

Table 5-5: Summary of Volatile Organic Compound Analytical Results (µg/L)

			1,2-Dichloro-ethane	2-butanone	Acetone	Bromo-methane	Carbon disulfide	Chloro-ethane	Chloroform	Chloro-methane	Methyl Acetate	Methyl tert-butyl ether	Methylene chloride	Naphthalene	Styrene	Toluene
			CAS 107-06-2	CAS 78-93-3	CAS 67-64-1	CAS 74-83-9	CAS 75-15-0	CAS 75-00-3	CAS 67-66-3	CAS 74-87-3	CAS 79-20-9	CAS 1634-04-4	CAS 75-09-2	CAS 91-20-3	CAS 100-42-5	CAS 108-88-3
Well Name	Sample Identifier	Sample Date	Screening Value (µg/L)													
			5 ^a	5600 ^b	14000 ^b	7.5 ^b	810 ^b	21000 ^b	80 ^c	190 ^b	20000 ^b	100 ^a	5 ^a	30 ^a	100 ^a	1000 ^a
Northern Alluvial Groundwater Zone																
BGMW01	BGMW01042018	4/27/18	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	BGMW01102017	10/23/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	BGMW01042017	4/24/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	BGMW01102016	11/2/16	1.0 U	2.6 J	10 J	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 UJ	1.0 U	1.0 U
BGMW02	BGMW02042018	4/26/18	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	BGMW02102017	10/20/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	BGMW02042017	4/21/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 UJ	0.25 U	0.25 U
	BGMW02102016	11/2/16	1.0 U	3.0 J	10 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 UJ	1.0 U	1.0 U
BGMW03	BGMW03042018	4/24/18	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	BGMW03102017	10/19/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	BGMW03042017	4/20/17	0.25 U	1.0 U	2.2 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 UJ	0.25 U	0.25 U
	BGMW03102016	10/28/16	1.0 U	5.0 U	10 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 UJ	1.0 U	1.0 U
FW31	FW31042018	4/23/18	0.25 U	1.0 U	1.1 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	FW31102017	10/18/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	FW31042017	4/17/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	FW31102016	10/26/16	1.0 U	5.0 U	10 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 U	1.0 U	1.0 U
FW35	Well has been dry since 2015		Well was dry and was not sampled													
MW01	MW01042018	4/23/18	1.1 J	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	MW01102017	10/24/17	1.4	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	MW01042017	4/19/17	1.5	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 UJ	0.25 U	0.25 U
	MW01102016	10/27/16	1.6 J	3.3 J	10 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 UJ	1.0 U	1.0 U
MW02	MW02042018	4/23/18	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	MW02102017	10/24/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	MW02042017	4/19/17	0.25 U	1.0 U	3.8 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 UJ	0.25 U	0.25 U
	MW02102016	10/27/16	1.0 U	2.4 J	10 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 UJ	1.0 U	1.0 U
MW03	MW03042018	4/27/18	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	0.81 J	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	MW03102017	10/23/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	MW03042017	4/21/17	0.25 U	1.0 U	1.3 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 UJ	0.25 U	0.25 U
	MW03102016	11/3/16	1.0 U	5.0 U	10 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	2.0 U	2.3 J	2.0 UJ	1.0 U	1.0 U
MW18D	MW18D042018	4/25/18	81 J	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	MW18D102017	10/19/17	92.0	1.0 UJ	1.2 UJ	0.50 UJ	0.25 UJ	0.25 UJ	0.25 UJ	0.25 UJ	1.0 UJ	0.25 UJ	0.50 UJ	0.25 UJ	0.25 UJ	0.25 UJ
	MW18D042017	4/20/17	95.0 J	1.0 UJ	11 UJ	0.50 UJ	0.25 UJ	0.25 UJ	0.25 UJ	0.25 UJ	1.0 UJ	0.25 UJ	0.50 UJ	0.25 UJ	0.25 UJ	0.25 UJ
	MW18D102016	10/28/16	100.0 J	5.0 UJ	10 UJ	2.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	2.0 UJ	5.0 UJ	2.0 UJ	5.0 UJ	2.0 UJ	1.0 UJ	1.0 UJ
MW18S	Well has been dry since 2011		Well was dry and was not sampled													

Table 5-5: Summary of Volatile Organic Compound Analytical Results (µg/L)

Well Name	Sample Identifier	Sample Date	1,2-Dichloro-ethane	2-butanone	Acetone	Bromo-methane	Carbon disulfide	Chloro-ethane	Chloroform	Chloro-methane	Methyl Acetate	Methyl tert-butyl ether	Methylene chloride	Naphthalene	Styrene	Toluene
			CAS 107-06-2	CAS 78-93-3	CAS 67-64-1	CAS 74-83-9	CAS 75-15-0	CAS 75-00-3	CAS 67-66-3	CAS 74-87-3	CAS 79-20-9	CAS 1634-04-4	CAS 75-09-2	CAS 91-20-3	CAS 100-42-5	CAS 108-88-3
			Screening Value (µg/L)													
			5 ^a	5600 ^b	14000 ^b	7.5 ^b	810 ^b	21000 ^b	80 ^c	190 ^b	20000 ^b	100 ^a	5 ^a	30 ^a	100 ^a	1000 ^a
MW20	MW20042018	4/30/18	2.3	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	MW20102017	10/23/17	3.4	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	MW20042017	4/24/17	4.0	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	MW20102016	11/4/16	2.6 J	5.0 U	10 U	2.0 U	1.0 U	1.0 UJ	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 U	1.0 U	1.0 U
MW22D	MW22D042018	4/27/18	0.39 J	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 J	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	MW22D102017	10/23/17	0.44 J	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	MW22D042017	4/19/17	0.57 J	1.0 U	1.7 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 UJ	0.25 U	0.25 U
	MW22D102016	10/28/16	0.59 J	5.0 U	10 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 UJ	1.0 U	1.0 U
MW22S	MW22S042018	04/2018	Well was dry and was not sampled													
	MW22S102017	10/2017	Well was dry and was not sampled													
	MW22S042017	04/2017	Well was dry and was not sampled													
	MW22S102016	10/2016	Well was dry and was not sampled													
MW23	MW23042018	4/24/18	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	MW23042018FD ^d	4/24/18	0.25 U	1.0 U	2.4 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	MW23102017	10/18/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	MW23102017FD ^d	10/18/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	MW23042017	4/18/17	0.25 U	1.0 U	0.78 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.36 J	0.25 U	0.25 U
	DMW23042017 ^d	4/18/17	0.25 U	1.0 U	0.57 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	MW23102016	10/27/16	1.0 U	2.4 J	10 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 UJ	1.0 U	1.0 U
MW24	MW24042018	4/23/18	0.25 U	1.0 U	1.3 UJ	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	MW24042018FD ^d	4/23/18	0.25 U	1.0 U	2.5 UJ	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	MW24102017	10/17/17	0.25 U	1.0 U	1.0 U	0.50 UJ	0.25 U	0.25 UJ	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	MW24102017FD 0	10/17/17	0.25 U	1.0 U	1.0 U	0.50 UJ	0.25 U	0.25 UJ	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	MW24042017	4/17/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	DMW24042017 ^d	4/17/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	MW24102016	10/26/16	1.0 U	5.0 U	10 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 U	1.0 U	1.0 U
	DMW24102016 ^d	10/26/16	1.0 U	5.0 U	10 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 U	1.0 U	1.0 U
SMW01	SMW01042018	4/26/18	0.25 U	1.0 U	1.0 U	0.50 U	0.39 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	SMW01102017	10/20/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	SMW01042017	4/21/17	0.25 U	1.0 U	2.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 UJ	0.25 U	0.25 U
	SMW01102016	11/2/16	1.0 U	3.9 J	10 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 UJ	1.0 U	1.0 U
TMW01	TMW01042018	5/4/18	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW01102017	10/27/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	1.3	0.25 U	0.25 U	0.25 U
	TMW01042017	4/25/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW01102016	10/31/16	1.0 U	5.0 U	10 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 U	1.0 U	1.0 U

Table 5-5: Summary of Volatile Organic Compound Analytical Results (µg/L)

Well Name	Sample Identifier	Sample Date	1,2- Dichloro- ethane	2-butanone	Acetone	Bromo- methane	Carbon disulfide	Chloro- ethane	Chloroform	Chloro- methane	Methyl Acetate	Methyl tert- butyl ether	Methylene chloride	Naphthalene	Styrene	Toluene
			CAS 107-06-2	CAS 78-93-3	CAS 67-64-1	CAS 74-83-9	CAS 75-15-0	CAS 75-00-3	CAS 67-66-3	CAS 74-87-3	CAS 79-20-9	CAS 1634-04-4	CAS 75-09-2	CAS 91-20-3	CAS 100-42-5	CAS 108-88-3
			Screening Value (µg/L)													
			5 ^a	5600 ^b	14000 ^b	7.5 ^b	810 ^b	21000 ^b	80 ^c	190 ^b	20000 ^b	100 ^a	5 ^a	30 ^a	100 ^a	1000 ^a
TMW03	TMW03042018	4/30/18	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW03102017	10/25/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW03042017	4/24/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW03102016	10/31/16	1.0 U	5.0 U	10 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 U	1.0 U	1.0 U
TMW04	TMW04042018	5/2/18	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW04102017	10/25/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW04042017	4/24/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW04102016	11/3/16	1.0 U	2.5 J	10 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 UJ	1.0 U	1.0 U
TMW06	TMW06042018	4/30/18	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW06102017	10/17/17	0.25 U	1.0 U	1.0 U	0.50 UJ	0.25 U	0.25 UJ	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW06042017	4/20/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 UJ	0.25 U	0.25 U
	TMW06102016	10/31/16	1.0 U	5.0 U	10 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 U	1.0 U	1.0 U
TMW07	TMW07042018	4/25/18	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW07102017	10/19/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW07042017	4/20/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 UJ	0.25 U	0.25 U
	TMW07102016	10/27/16	1.0 U	5.0 U	10 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 UJ	1.0 U	1.0 U
TMW08	TMW08042018	4/27/18	0.25 U	1.0 U	12	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.7 J	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW08102017	10/20/17	0.50 U	2.0 U	2.1 U	0.69 J	0.50 U	0.25 U	0.50 U	0.50 U	2.0 UJ	0.50 U	1.0 U	0.50 U	0.50 U	0.50 U
	TMW08042017	4/21/17	0.25 U	1.0 U	4.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 UJ	0.25 U	0.25 U
	TMW08102016	11/1/16	1.0 U	5.0 U	10 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 U	1.0 U	1.0 U
	DTW08102016 ^d	11/1/16	1.0 U	5.0 U	10 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 U	1.0 U	1.0 U
TMW10	TMW10042018	4/24/18	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW10102017	10/25/17	0.25 U	1.0 U	1.7 J	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW10042017	4/21/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 UJ	0.25 U	0.25 U
	TMW10102016	11/2/16	1.0 U	3.3 J	10 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 UJ	1.0 U	1.0 U
TMW11	TMW11042018	5/2/18	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW11102017	10/27/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	1.1	0.25 U	0.25 U	0.25 U
	TMW11042017	4/26/17	0.25 U	1.0 U	1.3 UJ	0.50 U	0.69 J	0.50 J	0.25 U	0.50 J	1.0 U	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW11102016	11/3/16	1.0 U	2.2 J	10.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 UJ	1.0 U	1.0 U
	DTW11102016 ^d	11/3/16	1.0 U	5.0 U	10.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 UJ	1.0 U	1.0 U
TMW13	TMW13042018	5/1/18	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW13102017	10/26/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW13042017	4/25/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW13102016	11/1/16	1.0 U	5.0 U	10 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 U	1.0 U	1.0 U

Table 5-5: Summary of Volatile Organic Compound Analytical Results (µg/L)

Well Name	Sample Identifier	Sample Date	1,2-Dichloro-ethane	2-butanone	Acetone	Bromo-methane	Carbon disulfide	Chloro-ethane	Chloroform	Chloro-methane	Methyl Acetate	Methyl tert-butyl ether	Methylene chloride	Naphthalene	Styrene	Toluene
			CAS 107-06-2	CAS 78-93-3	CAS 67-64-1	CAS 74-83-9	CAS 75-15-0	CAS 75-00-3	CAS 67-66-3	CAS 74-87-3	CAS 79-20-9	CAS 1634-04-4	CAS 75-09-2	CAS 91-20-3	CAS 100-42-5	CAS 108-88-3
			Screening Value (µg/L)													
			5 ^a	5600 ^b	14000 ^b	7.5 ^b	810 ^b	21000 ^b	80 ^c	190 ^b	20000 ^b	100 ^a	5 ^a	30 ^a	100 ^a	1000 ^a
TMW15	TMW15042018	5/3/18	0.25 U	1.0 U	1.3 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW15042018FD ^d	5/3/18	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW15102017	10/26/17	0.25 U	1.0 U	1.4 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW15102017FD ^d	10/26/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW15042017	4/27/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	DTW15042017 ^d	4/27/17	0.25 U	1.0 U	1.2 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW15102016	11/2/16	1.0 U	3.3 J	10 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 UJ	1.0 U	1.0 U
TMW21	TMW21042018	5/1/18	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW21102017	10/25/17	0.25 U	1.0 U	0.81 J	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW21042017	4/26/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW21102016	10/27/16	1.0 U	2.4 J	10 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 UJ	1.0 U	1.0 U
TMW22	TMW22042018	4/25/18	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW22102017	10/25/17	0.25 U	1.0 U	0.65 J	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW22042017	4/19/17	0.25 U	1.0 U	9.9 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 UJ	0.25 U	0.25 U
	TMW22102016	10/27/16	1.0 U	2.9 J	10 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 UJ	1.0 U	1.0 U
TMW23	TMW23042018	4/25/18	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW23102017	10/19/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW23042017	4/20/17	0.25 U	1.0 U	1.9 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 UJ	0.25 U	0.25 U
	TMW23102016	10/28/16	1.0 U	3.2 UJ	10 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 UJ	1.0 U	1.0 U
TMW24	TMW24042018	4/30/18	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW24102017	10/24/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW24042017	4/25/17	0.25 U	1.0 U	1.9 J	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW24102016	11/3/16	1.0 U	5.0 U	10 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 UJ	1.0 U	1.0 U
TMW25	TMW25042018	4/30/18	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW25102017	10/25/17	0.25 UJ	1.0 UJ	1.0 UJ	0.50 UJ	0.25 UJ	0.25 UJ	0.25 UJ	0.25 UJ	1.0 UJ	0.25 UJ	0.50 UJ	0.25 UJ	0.25 UJ	0.25 UJ
	TMW25042017	4/27/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW25102016	11/1/16	1.0 U	5.0 U	10 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 U	1.0 U	1.0 U
TMW26	TMW26042018	4/26/18	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW26042018FD ^d	4/26/18	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW26102017	10/17/17	0.25 U	1.0 U	1.0 U	0.50 UJ	0.25 U	0.25 UJ	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW26102017FD ^b	10/17/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW26042017	4/20/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 UJ	0.25 U	0.25 U
	DTW26042017 ^d	4/20/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 UJ	0.25 U	0.25 U
	TMW26102016	11/1/16	1.0 U	5.0 U	10 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 U	1.0 U	1.0 U

Table 5-5: Summary of Volatile Organic Compound Analytical Results (µg/L)

Well Name	Sample Identifier	Sample Date	1,2-Dichloro-ethane	2-butanone	Acetone	Bromo-methane	Carbon disulfide	Chloro-ethane	Chloroform	Chloro-methane	Methyl Acetate	Methyl tert-butyl ether	Methylene chloride	Naphthalene	Styrene	Toluene
			CAS 107-06-2	CAS 78-93-3	CAS 67-64-1	CAS 74-83-9	CAS 75-15-0	CAS 75-00-3	CAS 67-66-3	CAS 74-87-3	CAS 79-20-9	CAS 1634-04-4	CAS 75-09-2	CAS 91-20-3	CAS 100-42-5	CAS 108-88-3
			Screening Value (µg/L)													
			5 ^a	5600 ^b	14000 ^b	7.5 ^b	810 ^b	21000 ^b	80 ^c	190 ^b	20000 ^b	100 ^a	5 ^a	30 ^a	100 ^a	1000 ^a
TMW27	TMW27042018	4/26/18	0.25 U	1.0 U	3.9 J	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW27102017	10/20/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW27042017	4/21/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 UJ	0.25 U	0.25 U
	TMW27102016	11/3/16	1.0 U	2.3 J	10 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 UJ	1.0 U	1.0 U
TMW28	TMW28042018	4/26/18	0.25 U	1.0 U	1.0 U	0.50 U	0.41 UJ	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW28102017	10/20/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW28042017	4/24/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW28102016	11/3/16	1.0 U	3.0 J	10 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 UJ	1.0 U	1.0 U
TMW29	TMW29042018	4/23/18	0.25 U	1.0 U	2.2 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	0.93 J	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW29102017	10/20/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW29042017	4/20/17	0.25 U	1.0 U	1.2 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 UJ	0.25 U	0.25 U
	TMW29102016	10/28/16	1.0 U	5.0 U	10 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 UJ	1.0 U	1.0 U
TMW31S	TMW31S042018	4/25/18	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.1 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW31S102017	10/25/17	0.25 U	1.0 U	0.74 J	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW31S042017	4/19/17	0.25 U	1.0 U	1.8 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 UJ	0.25 U	0.25 U
	TMW31S102016	10/27/16	1.0 U	5.0 U	10 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 UJ	1.0 U	1.0 U
TMW33	TMW33042018	4/25/18	36	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW33102017	10/20/17	35	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW33042017	4/20/17	38.0	1.0 U	2.5 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 UJ	0.25 U	0.25 U
	TMW33102016	10/28/16	41.0 J	5.0 U	10.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 UJ	1.0 U	1.0 U
TMW34	TMW34042018	4/27/18	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.2 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW34042018FD ^d	4/27/18	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW34102017	10/25/17	0.25 U	1.0 U	1.3 J	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW34102017FD ^d	10/25/17	0.25 U	1.0 U	0.68 J	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW34042017	4/24/17	0.25 U	1.0 U	2.3 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	DTW34042017 ^d	4/24/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW34102016	11/1/16	1.0 U	5.0 U	10.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 U	1.0 U	1.0 U
TMW35	TMW35042018	4/27/18	0.94 J	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW35102017	10/23/17	1.2	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW35042017	4/24/17	1.4	1.0 U	1.8 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW35102016	10/31/16	1.8 J	5.0 U	10.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 U	1.0 U	1.0 U
	DTW35102016 ^d	10/31/16	2.0 J	5.0 U	10.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 U	1.0 U	1.0 U
TMW39S	TMW39S042018	4/25/18	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.4 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW39S102017	10/18/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW39S042017	4/19/17	0.25 U	1.0 U	3.4 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 UJ	0.25 U	0.25 U
	TMW39S102016	10/27/16	1.0 U	5.0 U	10.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 UJ	1.0 U	1.0 U

Table 5-5: Summary of Volatile Organic Compound Analytical Results (µg/L)

Well Name	Sample Identifier	Sample Date	1,2-Dichloro-ethane	2-butanone	Acetone	Bromo-methane	Carbon disulfide	Chloro-ethane	Chloroform	Chloro-methane	Methyl Acetate	Methyl tert-butyl ether	Methylene chloride	Naphthalene	Styrene	Toluene
			CAS 107-06-2	CAS 78-93-3	CAS 67-64-1	CAS 74-83-9	CAS 75-15-0	CAS 75-00-3	CAS 67-66-3	CAS 74-87-3	CAS 79-20-9	CAS 1634-04-4	CAS 75-09-2	CAS 91-20-3	CAS 100-42-5	CAS 108-88-3
			Screening Value (µg/L)													
			5 ^a	5600 ^b	14000 ^b	7.5 ^b	810 ^b	21000 ^b	80 ^c	190 ^b	20000 ^b	100 ^a	5 ^a	30 ^a	100 ^a	1000 ^a
TMW40S	TMW40S042018	4/27/18	0.25 U	1.0 U	14 J	0.50 U	0.25 U	0.25 U	0.21 J	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW40S102017	10/26/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.20 J	0.25 U	1.0 UJ	0.25 U	2.0	0.25 U	0.25 U	0.25 U
	TMW40S042017	4/25/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.24 J	0.25 U	1.0 U	0.25 U	1.0	0.25 U	0.25 U	0.25 U
	TMW40S102016	10/2016	Well was dry and was not sampled													
TMW41	TMW41042018	4/25/18	0.25 U	1.0 U	1.6 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW41102017	10/25/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW41042017	4/19/17	0.25 U	1.0 U	3.8 UJ	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 UJ	0.25 U	0.25 U
	TMW41102016	10/27/16	1.0 U	3.4 J	10.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 UJ	1.0 U	1.0 U
TMW43	TMW43042018	5/2/18	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW43042018FD ^d	5/2/18	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW43102017	10/24/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW43102017FD ^d	10/24/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW43042017	4/27/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	DTW43042017 ^d	4/27/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW43102016	11/3/16	1.0 U	2.7 J	10.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 UJ	1.0 U	1.0 U
	DTW43102016 ^d	11/3/16	1.0 U	2.6 J	10.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 UJ	1.0 U	1.0 U
TMW44	TMW44042018	4/25/18	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW44102017	10/25/17	0.25 U	1.0 U	0.55 J	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW44042017	4/19/17	0.25 U	1.0 U	5.7 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 UJ	0.25 U	0.25 U
	TMW44102016	10/27/16	1.0 U	5.0 U	10.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 UJ	1.0 U	1.0 U
TMW45	TMW45042018	5/2/18	0.25 UJ	1.0 UJ	1.0 UJ	0.50 UJ	0.25 UJ	0.25 UJ	0.25 UJ	0.25 UJ	1.0 UJ	0.25 UJ	0.50 UJ	0.25 UJ	0.25 UJ	0.25 UJ
	TMW45102017	10/27/17	0.25 UJ	1.0 UJ	1.7 UJ	0.50 UJ	0.25 UJ	0.25 UJ	0.25 UJ	0.25 UJ	1.0 UJ	0.25 UJ	1.4 J	0.25 UJ	0.25 UJ	0.25 UJ
	TMW45042017	4/28/17	0.25 U	1.0 U	1.9 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW45102016	11/4/16	1.0 U	5.0 U	10.0 U	2.0 U	1.0 U	1.0 UJ	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 U	1.0 U	1.0 U
	DTW45102016 ^d	11/4/16	1.0 U	5.0 U	10.0 U	2.0 U	1.0 U	1.0 UJ	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 U	1.0 U	1.0 U
TMW46	TMW46042018	4/25/18	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.5 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW46102017	10/25/17	0.25 U	1.0 U	1.3 J	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW46042017	4/20/17	0.25 U	1.0 U	3.6 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 UJ	0.25 U	0.25 U
	TMW46102016	10/28/16	1.0 U	3.2 UJ	10.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 UJ	1.0 U	1.0 U
TMW47	TMW47042018	5/3/18	0.25 U	1.0 U	1.0 U	0.50 U	1.5 J	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW47102017	10/26/17	0.25 U	1.0 U	1.0 U	0.50 U	3.3	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW47042017	4/25/17	0.25 U	1.0 U	1.4 J	0.50 U	2.6	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW47102016	11/4/16	1.0 U	5.0 U	10.0 U	2.0 U	3.6 J	1.0 UJ	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 U	1.0 U	1.0 U
Northern Bedrock Groundwater Zone																
BGMW07	BGMW07042018	4/26/18	0.25 U	1.0 U	15 U	0.50 U	0.38 J	0.25 U	0.17 J	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
BGMW08	BGMW08042018	04/2018	Well was dry and was not sampled													
BGMW09	BGMW09042018	5/1/18	0.25 U	1.0 U	2.0 UJ	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U

Table 5-5: Summary of Volatile Organic Compound Analytical Results (µg/L)

Well Name	Sample Identifier	Sample Date	1,2-Dichloro-ethane	2-butanone	Acetone	Bromo-methane	Carbon disulfide	Chloro-ethane	Chloroform	Chloro-methane	Methyl Acetate	Methyl tert-butyl ether	Methylene chloride	Naphthalene	Styrene	Toluene
			CAS 107-06-2	CAS 78-93-3	CAS 67-64-1	CAS 74-83-9	CAS 75-15-0	CAS 75-00-3	CAS 67-66-3	CAS 74-87-3	CAS 79-20-9	CAS 1634-04-4	CAS 75-09-2	CAS 91-20-3	CAS 100-42-5	CAS 108-88-3
			Screening Value (µg/L)													
			5 ^a	5600 ^b	14000 ^b	7.5 ^b	810 ^b	21000 ^b	80 ^c	190 ^b	20000 ^b	100 ^a	5 ^a	30 ^a	100 ^a	1000 ^a
BGMW10	BGMW10042018	4/27/18	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.9 J	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
TMW02	TMW02042018	5/1/18	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW02102017	10/24/17	0.25 U	1.0 U	6.8 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW02042017	4/24/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW02102016	11/1/16	1.0 U	5.0 U	10.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 U	1.0 U	1.0 U
TMW14A	TMW14A042018	5/3/18	0.25 U	1.0 U	1.0 U	0.50 U	0.24 J	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW14A102017	10/26/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW14A042017	4/27/17	0.25 U	1.0 U	1.0 U	0.50 U	0.26 J	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW14A102016	11/3/16	1.0 U	5.0 U	10 U	2.0 U	0.71 J	1.0 U	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 UJ	1.0 U	1.0 U
TMW16	TMW16042018	4/25/18	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.14 J
	TMW16102017	10/20/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW16042017	4/20/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 UJ	0.25 U	0.14 J
	TMW16102016	10/28/16	1.0 U	5.0 U	10.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 UJ	1.0 U	1.0 U
TMW17	TMW17042018	5/3/18	0.25 U	1.0 U	1.0 U	0.50 U	0.31 J	0.25 U	0.25 U	0.39 J	1.0 U	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW17102017	10/26/17	0.25 U	1.0 U	1.0 U	0.50 U	0.28 J	0.25 U	0.25 U	0.56 J	1.0 UJ	0.25 U	0.50 U	0.25 U	0.30 J	0.25 U
	TMW17042017	4/27/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW17102016	11/4/16	1.0 U	5.0 U	10.0 U	2.0 U	1.0 U	1.0 UJ	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 U	1.0 U	1.0 U
TMW18	TMW18042018	4/25/18	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.69 J
	TMW18102017	10/19/17	0.25 U	0.47 J	1.9 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	1.3
	TMW18042017	4/20/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 UJ	0.25 U	0.72 J
	TMW18102016	10/28/16	1.0 U	5.0 U	10.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 UJ	1.0 U	1.0 U
TMW19	TMW19042018	4/25/18	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW19102017	10/19/17	0.25 U	1.0 U	1.2 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW19042017	4/20/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 UJ	0.25 U	0.25 U
	TMW19102016	10/28/16	1.0 U	5.0 U	10.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 UJ	1.0 U	1.0 U
	DTW19102016 ^d	10/28/16	1.0 U	5.0 U	10.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 UJ	1.0 U	1.0 U
TMW30	TMW30042018	4/26/18	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW30102017	10/25/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW30042017	4/19/17	0.25 U	1.0 U	3.6 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 UJ	0.25 U	0.25 U
	TMW30102016	10/26/16	1.0 U	5.0 U	10.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 U	1.0 U	1.0 U

Table 5-5: Summary of Volatile Organic Compound Analytical Results (µg/L)

Well	Sample	Sample	1,2-Dichloro-ethane	2-butanone	Acetone	Bromo-methane	Carbon disulfide	Chloro-ethane	Chloroform	Chloro-methane	Methyl Acetate	Methyl tert-butyl ether	Methylene chloride	Naphthalene	Styrene	Toluene
			CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS
			107-06-2	78-93-3	67-64-1	74-83-9	75-15-0	75-00-3	67-66-3	74-87-3	79-20-9	1634-04-4	75-09-2	91-20-3	100-42-5	108-88-3
Name	Identifier	Date	Screening Value (µg/L)													
			5 ^a	5600 ^b	14000 ^b	7.5 ^b	810 ^b	21000 ^b	80 ^c	190 ^b	20000 ^b	100 ^a	5 ^a	30 ^a	100 ^a	1000 ^a
TMW31D	TMW31D042018	5/2/18	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW31D042018FD	5/2/18	0.25 U	1.0 U	1.0 U	0.50 U	0.37 J	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW31D102017	10/26/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW31D102017FD	10/26/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW31D042017	4/27/17	0.25 U	1.0 U	1.6 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	DTW31D042017 ^d	4/27/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW31D102016	10/31/16	1.0 U	5.0 U	10.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 U	1.0 U	1.0 U
	DTW31D102016 ^d	10/31/16	1.0 U	5.0 U	10.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 U	1.0 U	1.0 U
TMW32	TMW32042018	5/1/18	0.25 U	1.0 U	0.94 J	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.6 J	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW32102017	10/20/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW32042017	4/27/17	0.25 U	1.0 U	1.8 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW32102016	11/2/16	1.0 U	3.6 J	10.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 UJ	1.0 U	1.0 U
TMW36	TMW36042018	4/25/18	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW36102017	10/19/17	0.25 U	1.0 U	1.3 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	5.1
	TMW36042017	4/20/17	0.25 U	1.0 U	1.1 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 UJ	0.25 U	0.25 U
	TMW36102016	10/27/16	1.0 U	5.0 U	10.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 UJ	1.0 U	1.0 U
TMW37	TMW37042018	4/25/18	0.25 U	1.0 U	3.0	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.69 J
	TMW37102017	10/20/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.18 J
	TMW37042017	4/20/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 UJ	0.25 U	0.21 J
	TMW37102016	10/27/16	1.0 U	5.0 U	10.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 UJ	1.0 U	3.0 J
TMW38	TMW38042018	5/1/18	0.25 U	1.0 U	1.0 U	0.50 U	1.9 J	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW38102017	10/26/17	0.25 U	1.0 U	1.0 U	0.50 U	1.3 J	2.9	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW38042017	4/26/17	0.25 U	1.0 U	1.0 U	0.50 U	1.1 J	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW38102016	11/4/16	1.0 U	5.0 U	10.0 U	2.0 U	1.0 U	1.0 UJ	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 U	1.0 U	1.0 U
TMW39D	TMW39D042018	5/3/18	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW39D102017	10/27/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.91 J	0.25 U	0.25 U	0.25 U
	TMW39D042017	4/27/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW39D102016	10/31/16	1.0 U	5.0 U	10.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 U	1.0 U	1.0 U
TMW40D	TMW40D042018	5/1/18	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW40D102017	10/23/17	0.25 U	1.0 U	1.9 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW40D042017	4/25/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW40D102016	10/31/16	1.0 U	5.0 U	10.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 U	1.0 U	1.0 U
TMW48	TMW48042018	5/2/18	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW48102017	10/27/17	0.25 UJ	1.0 UJ	1.0 UJ	0.50 UJ	0.25 UJ	0.25 UJ	0.25 UJ	0.25 UJ	1.0 UJ	0.25 UJ	0.50 UJ	0.25 UJ	0.25 UJ	0.25 UJ
	TMW48042017	4/26/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW48102016	11/1/16	1.0 U	5.0 U	10.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 U	1.0 U	1.0 U

Table 5-5: Summary of Volatile Organic Compound Analytical Results (µg/L)

			1,2-Dichloro-ethane	2-butanone	Acetone	Bromo-methane	Carbon disulfide	Chloro-ethane	Chloroform	Chloro-methane	Methyl Acetate	Methyl tert-butyl ether	Methylene chloride	Naphthalene	Styrene	Toluene
			CAS 107-06-2	CAS 78-93-3	CAS 67-64-1	CAS 74-83-9	CAS 75-15-0	CAS 75-00-3	CAS 67-66-3	CAS 74-87-3	CAS 79-20-9	CAS 1634-04-4	CAS 75-09-2	CAS 91-20-3	CAS 100-42-5	CAS 108-88-3
Well Name	Sample Identifier	Sample Date	Screening Value (µg/L)													
			5 ^a	5600 ^b	14000 ^b	7.5 ^b	810 ^b	21000 ^b	80 ^c	190 ^b	20000 ^b	100 ^a	5 ^a	30 ^a	100 ^a	1000 ^a
TMW49	TMW49042018	5/4/18	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.59 J	0.50 U	0.25 U	0.25 U	0.25 U
	TMW49102017	10/27/17	0.25 U	1.0 U	1.0 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 UJ	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW49042017	4/26/17	0.25 U	1.0 U	2.3 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U
	TMW49102016	11/2/16	1.0 U	3.6 J	10.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 UJ	1.0 U	1.0 U

Notes:

- ^a New Mexico Water Quality Control Commission standard - NMAC 20.6.2.3103
- ^b EPA Region 6 regional screening levels: EPA, 2019. <https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables>
- ^c EPA maximum contaminant level - 40 CFR Parts 141, 142, and 143
- ^d Indicates a field duplicate sample

Bold indicates analyte was positively detected above screening values.

Acronyms and Abbreviations:

- µg/L = microgram per liter
- CAS = Chemical Abstracts Service (registry number)
- CFR = Code of Federal Regulations
- EPA = U.S. Environmental Protection Agency
- J = (Estimated) The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to nonconformances discovered during data validation.
- NMAC = New Mexico Administrative Code
- U = (Non-detected) The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).
- UJ = (Non-detected estimated) The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.

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Table 5-6: Summary of Semivolatile Organic Compound and Total Petroleum Hydrocarbons Analytical Results (µg/L)

			Diesel Range Organics ^a	Gasoline Range Organics ^g	1,2,4- trichloro- benzene	2,4-Dinitro- phenol	2-chloro- naphthalen e	2-methyl- naphthalen e	4- Nitrophenol	Acetophenone	Benzyl alcohol	Bis (2- ethylhexyl) phthalate	Diethyl phthalate	Dimethyl phthalate	Isophorone	Naphthalene	Nitrobenzene	Phenanthrene
			CAS DRO	CAS GRO	CAS 120-82-1	CAS 51-28-5	CAS 91-58-7	CAS 91-57-6	CAS 100-02-7	CAS 98-86-2	CAS 100-51-6	CAS 117-81-7	CAS 84-66-2	CAS 131-11-3	CAS 78-59-1	CAS 91-20-3	CAS 98-95-3	CAS 85-01-8
Well Name	Sample Identifier	Sample Date	mg/L ^a	Screening Value (µg/L) ^b														
			0.0167 ^a	10.1 ^g	70 ^f	39 ^c	750 ^c	30 ^f	91 ^c	1900 ^c	2000 ^c	6 ^d	15000 ^c	15000 ^c	780 ^c	30 ^f	1.4 ^c	NE
Northern Alluvial Groundwater Zone																		
BGMW01	BGMW01042018	4/27/18	NA	NA	4.9 U	18 U	1.1 U	1.1 U	4.4 UJ	2.2 U	1.1 U	4.9 U	2.2 U	2.2 U	2.2 U	1.1 U	1.1 U	1.1 U
	BGMW01102017	10/23/17	NA	NA	5.0 U	18 U	1.1 U	1.1 U	4.5 UJ	2.3 U	1.1 U	5.0 U	2.3 U	2.3 U	2.3 U	1.1 U	1.1 U	1.1 U
	BGMW01042017	4/24/17	NA	NA	1.1 U	33 U	1.1 U	1.1 U	4.5 U	0.56 U	0.56 U	2.2 U	1.1 U	0.56 U	0.56 U	1.1 U	2.2 U	1.1 U
	BGMW01102016	11/2/16	NA	NA	1.1 U	32 U	1.1 U	1.1 U	4.2 U	0.53 U	0.53 U	2.1 U	1.1 U	0.53 U	0.53 U	1.1 UJ	2.1 U	1.1 U
BGMW02	BGMW02042018	4/26/18	NA	NA	4.7 U	17 U	1.1 U	1.1 U	4.3 UJ	2.1 U	1.1 U	4.7 U	2.1 U	2.1 U	2.1 U	1.1 U	1.1 U	1.1 U
	BGMW02102017	10/20/17	NA	NA	5.3 U	19 U	1.2 U	1.2 U	4.8 UJ	2.4 U	1.2 U	5.3 U	2.4 U	2.4 U	2.4 U	1.2 U	1.2 U	1.2 U
	BGMW02042017	4/21/17	NA	NA	1.1 U	33 U	1.1 U	1.1 U	4.4 U	0.55 U	0.55 U	2.2 U	1.1 U	0.55 U	0.55 U	1.1 U	2.2 U	1.1 U
	BGMW02102016	11/2/16	NA	NA	1.1 U	33 U	1.1 U	1.1 U	4.4 U	0.55 U	0.55 U	2.2 U	1.1 U	0.55 U	0.55 U	1.1 UJ	2.2 U	1.1 U
BGMW03	BGMW03042018	4/24/18	NA	NA	4.9 U	18 U	1.1 U	1.1 U	4.5 UJ	2.2 U	1.1 U	4.9 U	2.2 U	2.2 U	2.2 U	1.1 U	1.1 U	1.1 U
	BGMW03102017	10/19/17	NA	NA	4.7 U	17 U	1.1 U	1.1 U	4.3 UJ	2.1 U	1.1 U	4.7 U	2.1 U	2.1 U	2.1 U	1.1 U	1.1 U	1.1 U
	BGMW03042017	4/20/17	NA	NA	1.1 U	32 U	1.1 U	1.1 U	4.3 U	0.53 U	0.53 U	2.1 U	1.1 U	0.53 U	0.53 U	1.1 U	2.1 U	1.1 U
	BGMW03102016	10/28/16	NA	NA	1.1 UJ	32 U	1.1 U	1.1 U	4.2 U	0.53 U	0.53 U	2.1 U	1.1 U	0.53 U	0.53 U	1.1 UJ	2.1 U	1.1 U
FW31	FW31042018	4/23/18	NA	NA	4.6 U	17 U	1.0 U	1.0 U	4.2 UJ	2.1 U	1.0 U	4.6 U	2.1 U	2.1 U	2.1 U	1.0 U	1.0 U	1.0 U
	FW31102017	10/18/17	NA	NA	1.0 U	31 U	1.0 U	1.0 U	4.1 U	0.52 U	0.52 U	2.1 U	1.0 U	0.52 U	0.52 U	1.0 U	2.1 U	1.0 U
	FW31042017	4/17/17	NA	NA	1.1 U	34 U	1.1 U	1.1 U	4.5 U	0.57 U	0.57 U	2.2 J	1.1 U	0.57 U	0.57 U	1.1 U	2.3 U	1.1 U
	FW31102016	10/26/16	NA	NA	1.1 U	32 U	1.1 U	1.1 U	4.3 U	0.53 U	0.53 U	1.1 J	1.1 U	0.53 U	0.53 U	1.1 U	2.1 U	1.1 U
FW35	Well has been dry since 2015		Well was dry and was not sampled															
MW01	MW01042018	4/23/18	0.092 U	23 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MW01102017	10/24/17	0.13 J	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MW01042017	4/19/17	53 J	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MW01102016	10/27/16	54 J	25 U	1.1 UJ	33 U	1.1 U	1.1 U	4.4 U	0.55 U	0.55 U	1.1 J	1.1 U	0.55 U	0.55 U	1.1 UJ	2.2 U	1.1 U
MW02	MW02042018	4/23/18	0.080 U	14 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MW02102017	10/24/17	0.070 J	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MW02042017	4/19/17	82 J	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MW02102016	10/28/16	52 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MW02102016	10/27/16	NA	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW03	MW03042018	4/27/18	0.048 J	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MW03102017	10/23/17	0.12 U	1300 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MW03042017	4/21/17	39 U	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MW03102016	11/3/16	34 J	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW18D	MW18D042018	4/25/18	0.091 U	41 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MW18D102017	10/19/17	0.067 J	43	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MW18D042017	4/20/17	84 J	31 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MW18D102016	10/28/16	61 U	24 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW18S	Well has been dry since 2011		Well was dry and was not sampled															
MW20	MW20042018	4/30/18	0.063 J	10 J	4.8 U	17 U	1.1 U	1.1 U	4.3 UJ	2.2 U	1.1 U	4.8 U	2.2 U	2.2 U	2.2 U	1.1 U	1.1 U	1.1 U
	MW20102017	10/23/17	0.12 U	1300 U	4.9 U	18 U	1.1 U	1.1 U	4.5 UJ	2.2 U	1.1 U	4.9 U	2.2 U	2.2 U	2.2 U	1.1 U	1.1 U	1.1 U
	MW20042017	4/24/17	52 J	25 UJ	1.0 U	30 U	1.0 U	1.0 U	4.0 U	0.50 U	0.50 U	2.0 U	1.0 U	0.50 U	0.50 U	1.0 U	2.0 U	1.0 U
	MW20102016	11/4/16	53 J	25 U	1.1 U	32 U	1.1 U	1.1 U	4.3 U	0.54 U	0.54 U	2.2 U	1.1 U	0.54 U	0.54 U	1.1 U	2.2 U	1.1 U

Table 5-6: Summary of Semivolatile Organic Compound and Total Petroleum Hydrocarbons Analytical Results (µg/L)

			Diesel Range Organics ^a	Gasoline Range Organics ^g	1,2,4- trichloro- benzene	2,4-Dinitro- phenol	2-chloro- naphthalen e	2-methyl- naphthalen e	4- Nitrophenol	Acetophenone	Benzyl alcohol	Bis (2- ethylhexyl) phthalate	Diethyl phthalate	Dimethyl phthalate	Isophorone	Naphthalene	Nitrobenzene	Phenanthrene
			CAS DRO	CAS GRO	CAS 120-82-1	CAS 51-28-5	CAS 91-58-7	CAS 91-57-6	CAS 100-02-7	CAS 98-86-2	CAS 100-51-6	CAS 117-81-7	CAS 84-66-2	CAS 131-11-3	CAS 78-59-1	CAS 91-20-3	CAS 98-95-3	CAS 85-01-8
Well Name	Sample Identifier	Sample Date	mg/L ^a	Screening Value (µg/L) ^b														
			0.0167 ^a	10.1 ^g	70 ^f	39 ^e	750 ^e	30 ^f	91 ^c	1900 ^c	2000 ^c	6 ^d	15000 ^c	15000 ^c	780 ^c	30 ^f	1.4 ^c	NE
MW22D	MW22D042018	4/27/18	0.06 J	25 U	4.8 U	18 U	1.1 U	1.1 U	4.4 UJ	2.2 U	1.1 U	4.8 U	2.2 U	2.2 U	2.2 U	1.1 U	1.1 U	1.1 U
	MW22D102017	10/23/17	0.14 U	1300 U	5.1 U	19 U	1.2 U	1.2 U	4.6 UJ	2.3 U	1.2 U	5.1 U	2.3 U	2.3 U	2.3 U	1.2 U	2.0 U	1.2 U
	MW22D042017	4/19/17	47 J	25 U	0.97 U	29 U	0.97 U	0.97 U	3.9 U	0.49 U	0.49 U	1.9 U	0.97 U	0.49 U	0.49 U	0.97 U	1.9 U	0.97 U
	MW22D102016	10/28/16	51 U	25 U	1.0 UJ	30 U	1.0 U	1.0 U	4.0 U	0.50 U	0.50 U	2.0 U	1.0 U	0.50 U	0.50 U	1.0 UJ	2.0 U	1.0 U
MW22S	MW22S042018	4/2018	Well was dry and was not sampled															
	MW22S102017	10/2017	Well was dry and was not sampled															
	MW22S042017	4/1/17	Well was dry and was not sampled															
	MW22S102016	10/2016	Well was dry and was not sampled															
MW23	MW23042018	4/24/18	NA	NA	4.4 U	16 U	1.0 U	1.0 U	4.0 UJ	2.0 U	1.0 U	4.4 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	MW23042018FD ^c	4/24/18	NA	NA	4.4 U	16 U	1.0 U	1.0 U	4.0 UJ	2.0 U	1.0 U	4.4 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	MW23102017	10/18/17	NA	NA	1.0 U	31 U	1.0 U	1.0 U	4.2 U	0.52 U	0.52 U	2.8 J	1.0 U	0.52 U	0.52 U	1.0 U	2.1 U	1.0 U
	MW23102017FD ^c	10/18/17	NA	NA	1.1 U	34 U	1.1 U	1.1 U	4.6 U	0.57 U	0.57 U	1.4 J	1.1 U	0.57 U	0.57 U	1.1 U	2.3 U	1.1 U
	MW23042017	4/18/17	NA	NA	1.0 U	31 U	1.0 U	1.0 U	4.1 U	0.51 U	0.51 U	1.4 J	1.0 U	0.51 U	0.51 U	1.0 U	2.0 U	1.0 U
	DMW23042017 ^c	4/18/17	NA	NA	1.1 U	32 U	1.1 U	1.1 U	4.3 U	0.54 U	0.54 U	1.1 J	1.1 U	0.54 U	0.54 U	1.1 U	2.2 U	1.1 U
MW24	MW23102016	10/27/16	NA	NA	1.0 UJ	30 U	1.0 U	1.0 U	4.0 U	0.50 U	0.50 U	1.3 J	1.0 U	0.50 U	0.50 U	1.0 UJ	2.0 U	1.0 U
	MW24042018	4/23/18	NA	NA	4.3 U	16 U	0.99 U	0.99 U	3.9 UJ	2.0 U	0.99 U	4.3 U	2.0 U	2.0 U	2.0 U	0.99 U	0.99 U	0.99 U
	MW24042018FD ^c	4/23/18	NA	NA	4.6 U	17 U	1.1 U	1.1 U	4.2 UJ	2.1 U	1.1 U	4.6 U	2.1 U	2.1 U	2.1 U	1.1 U	1.1 U	1.1 U
	MW24102017	10/17/17	NA	NA	1.1 U	32 U	1.1 U	1.1 U	4.2 U	0.53 U	0.53 U	2.1 U	1.1 U	0.53 U	0.53 U	1.1 U	2.1 U	1.1 U
	MW24102017FD 01 ^c	10/17/17	NA	NA	1.1 U	33 U	1.1 U	1.1 U	4.4 U	0.54 U	0.54 U	2.2 U	1.1 U	0.54 U	0.54 U	1.1 U	2.2 U	1.1 U
	MW24042017	4/17/17	NA	NA	0.99 U	30 U	0.99 U	0.99 U	4.0 U	0.50 U	0.50 U	2.0 U	0.99 U	0.50 U	0.50 U	0.99 U	2.0 U	0.99 U
	DMW24042017 ^c	4/17/17	NA	NA	0.97 U	29 U	0.97 U	0.97 U	3.9 U	0.48 U	0.48 U	1.9 U	0.97 U	0.48 U	0.48 U	0.97 U	1.9 U	0.97 U
	MW24102016	10/26/16	NA	NA	1.0 U	30 U	1.0 U	1.0 U	4.0 U	0.50 U	0.50 U	2.0 U	1.0 U	0.50 U	0.50 U	1.0 U	2.0 U	1.0 U
SMW01	DMW24102016 ^c	10/26/16	NA	NA	0.98 U	29 U	0.98 U	0.98 U	3.9 U	0.49 U	0.49 U	1.0 J	0.98 U	0.49 U	0.49 U	0.98 U	2.0 U	0.98 U
	SMW01042018	4/26/18	NA	NA	4.7 U	17 U	1.1 U	1.1 U	4.2 UJ	2.1 U	1.1 U	4.7 U	2.1 U	2.1 U	2.1 U	1.1 U	1.1 U	1.1 U
	SMW01102017	10/20/17	NA	NA	4.6 U	17 U	1.1 U	1.1 U	4.2 UJ	2.1 U	1.1 U	4.6 U	2.1 U	2.1 U	2.1 U	1.1 U	1.1 U	1.1 U
	SMW01042017	4/21/17	NA	NA	1.0 U	31 U	1.0 U	1.0 U	4.2 U	0.52 U	0.52 U	2.1 U	1.0 U	0.52 U	0.52 U	1.0 U	2.1 U	1.0 U
	SMW01102016	11/2/16	NA	NA	1.1 U	33 U	1.1 U	1.1 U	4.4 U	0.55 U	0.55 U	2.2 U	1.1 U	0.55 U	0.55 U	1.1 UJ	2.2 U	1.1 U
TMW03	TMW03042018	5/4/18	NA	NA	4.7 U	29 J	1.1 U	1.1 U	4.3 UJ	2.2 U	1.1 U	4.7 U	2.2 U	2.2 U	2.2 U	1.1 U	1.1 U	1.1 U
	TMW03102017	10/25/17	NA	NA	4.9 U	13 J	1.1 U	1.1 U	4.5 UJ	2.2 U	1.1 U	4.9 U	2.2 U	2.2 U	2.2 U	1.1 U	1.1 U	1.1 U
	TMW03042017	4/24/17	NA	NA	0.99 U	30 U	0.99 U	0.99 U	4.0 U	0.50 U	0.50 U	2.0 U	0.99 U	0.50 U	0.50 U	0.99 U	2.0 U	0.99 U
	TMW03102016	10/31/16	NA	NA	1.1 U	40 J	1.1 U	1.1 U	24 J	0.54 U	0.54 U	2.2 U	1.1 U	0.54 U	0.36 J	1.1 U	2.2 U	1.1 U
TMW04	TMW04042018	5/2/18	NA	NA	1.1 U	32 U	1.1 U	1.1 U	4.2 UJ	0.53 U	0.53 U	2.1 U	1.1 U	0.53 U	0.53 U	1.1 U	2.1 U	1.1 U
	TMW04102017	10/25/17	NA	NA	4.7 U	17 U	1.1 U	1.1 U	4.3 UJ	2.2 U	1.1 U	4.7 U	2.2 U	2.2 U	2.2 U	1.1 U	1.1 U	1.1 U
	TMW04042017	4/24/17	NA	NA	1.0 U	30 U	1.0 U	1.0 U	4.0 U	0.50 U	0.50 U	2.0 U	1.0 U	0.50 U	0.50 U	1.0 U	2.0 U	1.0 U
	TMW04102016	11/3/16	NA	NA	1.1 U	32 U	1.1 U	1.1 U	4.3 U	0.53 U	0.53 U	2.1 U	1.1 U	0.53 U	0.53 U	1.1 UJ	2.1 U	1.1 U
TMW06	TMW06042018	4/30/18	NA	NA	4.7 U	17 U	1.1 U	1.1 U	4.3 UJ	2.1 U	1.1 U	4.7 U	2.1 U	2.1 U	2.1 U	1.1 U	1.1 U	1.1 U
	TMW06102017	10/17/17	NA	NA	1.1 U	33 U	1.1 U	1.1 U	4.4 U	0.55 U	0.55 U	2.2 U	1.1 U	0.55 U	0.55 U	1.1 U	2.2 U	1.1 U
	TMW06042017	4/20/17	NA	NA	1.1 U	32 U	1.1 U	1.1 U	4.3 U	0.53 U	0.53 U	2.1 U	1.1 U	0.53 U	0.53 U	1.1 U	2.1 U	1.1 U
	TMW06102016	10/31/16	NA	NA	1.0 U	31 U	1.0 U	1.0 U	4.1 U	0.52 U	0.52 U	2.1 U	1.0 U	0.52 U	0.52 U	1.0 U	2.1 U	1.0 U
TMW07	TMW07042018	4/25/18	NA	NA	4.6 U	17 U	1.0 U	1.0 U	4.2 UJ	2.1 U	1.0 U	4.6 U	2.1 U	2.1 U	2.1 U	1.0 U	1.0 U	1.0 U
	TMW07102017	10/19/17	NA	NA	4.8 U	17 U	1.1 U	1.1 U	4.3 UJ	2.2 U	1.1 U	4.8 U	2.2 U	2.2 U	2.2 U	1.1 U	1.1 U	1.1 U
	TMW07042017	4/20/17	NA	NA	0.98 U	29 U	0.98 U	0.98 U	3.9 U	0.49 U	0.49 U	0.81 J	0.98 U	0.49 U	0.49 U	0.98 U	2.0 U	0.98 U
	TMW07102016	10/27/16	NA	NA	1.0 UJ	31 U	1.0 U	1.0 U	4.1 U	0.52 U	0.52 U	2.3 J	1.0 U	0.52 U	0.52 U	1.0 UJ	2.1 U	1.0 U

Table 5-6: Summary of Semivolatile Organic Compound and Total Petroleum Hydrocarbons Analytical Results (µg/L)

			Diesel Range Organics ^a	Gasoline Range Organics ^g	1,2,4- trichloro- benzene	2,4-Dinitro- phenol	2-chloro- naphthalen e	2-methyl- naphthalen e	4- Nitrophenol	Acetophenone	Benzyl alcohol	Bis (2- ethylhexyl) phthalate	Diethyl phthalate	Dimethyl phthalate	Isophorone	Naphthalene	Nitrobenzene	Phenanthrene
			CAS DRO	CAS GRO	CAS 120-82-1	CAS 51-28-5	CAS 91-58-7	CAS 91-57-6	CAS 100-02-7	CAS 98-86-2	CAS 100-51-6	CAS 117-81-7	CAS 84-66-2	CAS 131-11-3	CAS 78-59-1	CAS 91-20-3	CAS 98-95-3	CAS 85-01-8
Well Name	Sample Identifier	Sample Date	mg/L ^a	Screening Value (µg/L) ^b														
			0.0167 ^a	10.1 ^g	70 ^f	39 ^e	750 ^e	30 ^f	91 ^c	1900 ^c	2000 ^c	6 ^d	15000 ^c	15000 ^c	780 ^c	30 ^f	1.4 ^c	NE
TMW08	TMW08042018	4/27/18	0.056 J	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	TMW08102017	10/20/17	0.041 U	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	TMW08042017	4/21/17	40 U	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	TMW08102016	11/1/16	39 J	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DTW08102016 ^e	11/1/16	37 J	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TMW15	TMW15042018	5/3/18	NA	NA	1.1 U	32 U	1.1 U	1.1 U	4.2 UJ	0.53 U	0.53 U	2.1 U	1.1 U	0.53 U	0.53 U	1.1 U	2.1 U	1.1 U
	TMW15042018FD ^e	5/3/18	NA	NA	1.1 U	34 U	1.1 U	1.1 U	4.5 UJ	0.56 U	0.56 U	2.2 U	1.1 U	0.56 U	0.56 U	1.1 U	2.2 U	1.1 U
	TMW15102017	10/26/17	NA	NA	5.2 U	19 U	1.2 U	1.2 U	4.8 UJ	2.4 U	1.2 U	5.2 U	2.4 U	2.4 U	2.4 U	1.2 U	1.2 U	1.2 U
	TMW15102017FD ^e	10/26/17	NA	NA	4.9 U	18 U	1.1 U	1.1 U	4.4 UJ	2.2 U	1.1 U	4.9 U	2.2 U	2.2 U	2.2 U	1.1 U	1.1 U	1.1 U
	TMW15042017	4/27/17	NA	NA	1.1 U	34 U	1.1 U	1.1 U	4.5 U	0.56 U	0.56 U	2.3 U	1.1 U	0.56 U	0.56 U	1.1 U	2.3 U	1.1 U
	DTW15042017 ^e	4/27/17	NA	NA	1.1 U	33 U	1.1 U	1.1 U	4.4 U	0.55 U	0.55 U	2.2 U	1.1 U	0.55 U	0.55 U	1.1 U	2.2 U	1.1 U
	TMW15102016	11/2/16	NA	NA	1.0 U	30 U	1.0 U	1.0 U	4.0 U	0.51 U	0.51 U	2.0 U	1.0 U	0.51 U	0.51 U	1.0 UJ	2.0 U	1.0 U
TMW22	TMW22042018	4/25/18	NA	NA	5.0 U	18 U	1.1 U	1.1 U	4.6 UJ	2.3 U	1.1 U	5.0 U	2.3 U	2.3 U	2.3 U	1.1 U	1.1 U	1.1 U
	TMW22102017	10/25/17	NA	NA	4.7 U	17 U	1.1 U	1.1 U	4.3 UJ	2.1 U	1.1 U	4.7 U	2.1 U	2.1 U	2.1 U	1.1 U	1.1 U	1.1 U
	TMW22042017	4/19/17	NA	NA	1.1 U	12 J	1.1 U	1.1 U	4.4 U	0.55 U	0.32 J	2.2 U	1.1 U	0.55 U	0.55 U	1.1 U	2.2 U	1.1 U
	TMW22102016	10/27/16	NA	NA	1.1 UJ	33 U	1.1 U	1.1 U	4.4 U	0.54 U	0.54 U	1.9 J	1.1 U	0.54 U	0.54 U	1.1 UJ	2.2 U	1.1 U
TMW31S	TMW31S042018	4/25/18	NA	NA	4.7 U	17 U	1.1 U	1.1 U	4.3 UJ	2.1 U	1.1 U	4.7 U	2.1 U	2.1 U	2.1 U	1.1 U	1.1 U	1.1 U
	TMW31S102017	10/25/17	NA	NA	5.0 U	18 U	1.1 U	1.1 U	4.5 UJ	2.3 U	1.1 U	5.0 U	2.3 U	2.3 U	2.3 U	1.1 U	1.1 U	1.1 U
	TMW31S042017	4/19/17	NA	NA	1.1 U	34 U	1.1 U	1.1 U	4.5 U	0.56 U	0.56 U	2.2 U	1.1 U	0.56 U	0.56 U	1.1 U	2.2 U	1.1 U
	TMW31S102016	10/27/16	NA	NA	0.99 UJ	30 U	0.99 U	0.99 U	4.0 U	0.50 U	0.50 U	1.1 J	0.99 U	0.50 U	0.50 U	0.99 UJ	2.0 U	0.99 U
TMW33	TMW33042018	4/25/18	0.067 U	24 J	4.6 U	17 U	1.0 U	1.0 U	4.1 UJ	2.1 U	1.0 U	4.6 U	2.1 U	2.1 U	2.1 U	1.0 U	1.0 U	1.0 U
	TMW33102017	10/20/17	0.068 U	26 U	4.7 U	17 U	1.1 U	1.1 U	4.3 UJ	2.2 U	1.1 U	4.7 U	2.2 U	2.2 U	2.2 U	1.1 U	1.1 U	1.1 U
	TMW33042017	4/20/17	46 J	15 J	1.0 U	31 U	1.0 U	1.0 U	4.1 U	0.51 U	0.51 U	2.0 U	1.0 U	0.51 U	0.51 U	1.0 U	2.0 U	1.0 U
	TMW33102016	10/28/16	62 U	25 UJ	1.0 UJ	30 U	1.0 U	1.0 U	4.0 U	0.50 U	0.50 U	2.0 U	1.0 U	0.50 U	0.50 U	1.0 UJ	2.0 U	1.0 U
TMW34	TMW34042018	4/27/18	0.055 J	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	TMW34042018FD ^e	4/27/18	0.06 J	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	TMW34102017	10/25/17	0.069 U	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	TMW34102017FD ^e	10/25/17	0.084 U	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	TMW34042017	4/24/17	120 U	25 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DTW34042017 ^e	4/24/17	32 J	25 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	TMW34102016	11/1/16	120 U	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TMW35	TMW35042018	4/27/18	0.064 J	25 U	4.9 U	18 U	1.1 U	1.1 U	4.4 UJ	2.2 U	1.1 U	4.9 U	2.2 U	2.2 U	2.2 U	1.1 U	1.1 U	1.1 U
	TMW35102017	10/23/17	0.14 U	1300 U	5.1 U	19 U	1.2 U	1.2 U	4.6 UJ	2.3 U	1.2 U	5.1 U	2.3 U	2.3 U	2.3 U	1.2 U	1.2 U	1.2 U
	TMW35042017	4/24/17	43 J	25 UJ	1.1 U	33 U	1.1 U	1.1 U	4.4 U	0.55 U	0.55 U	2.2 U	1.1 U	0.55 U	0.55 U	1.1 U	2.2 U	1.1 U
	TMW35102016	10/31/16	51 J	25 U	1.1 U	32 U	1.1 U	1.1 U	4.3 U	0.54 U	0.54 U	2.2 U	1.1 U	0.54 U	0.54 U	1.1 U	2.2 U	1.1 U
	DTW35102016 ^e	10/31/16	49 J	25 U	1.1 U	33 U	1.1 U	1.1 U	4.4 U	0.55 U	0.55 U	2.2 U	1.1 U	0.55 U	0.55 U	1.1 U	2.2 U	1.1 U
TMW39S	TMW39S042018	4/25/18	NA	NA	4.8 U	17 U	1.1 U	1.1 U	4.4 UJ	2.2 U	1.1 U	4.8 U	2.2 U	2.2 U	2.2 U	1.1 U	1.1 U	1.1 U
	TMW39S102017	10/18/17	NA	NA	1.1 U	34 U	1.1 U	1.1 U	4.6 U	0.57 U	0.57 U	2.3 U	1.1 U	0.57 U	0.57 U	1.1 U	2.3 U	1.1 U
	TMW39S042017	4/19/17	NA	NA	1.1 U	32 U	1.1 U	1.1 U	4.2 U	0.53 U	0.53 U	2.1 U	1.1 U	0.53 U	0.53 U	1.1 U	2.1 U	1.1 U
	TMW39S102016	10/27/16	NA	NA	1.0 UJ	30 U	1.0 U	1.0 U	4.0 U	0.50 U	0.50 U	1.1 J	1.0 U	0.50 U	0.50 U	1.0 UJ	2.0 U	1.0 U

Table 5-6: Summary of Semivolatile Organic Compound and Total Petroleum Hydrocarbons Analytical Results (µg/L)

			Diesel Range Organics ^a	Gasoline Range Organics ^g	1,2,4- trichloro- benzene	2,4-Dinitro- phenol	2-chloro- naphthalen e	2-methyl- naphthalen e	4- Nitrophenol	Acetophenone	Benzyl alcohol	Bis (2- ethylhexyl) phthalate	Diethyl phthalate	Dimethyl phthalate	Isophorone	Naphthalene	Nitrobenzene	Phenanthrene
			CAS DRO	CAS GRO	CAS 120-82-1	CAS 51-28-5	CAS 91-58-7	CAS 91-57-6	CAS 100-02-7	CAS 98-86-2	CAS 100-51-6	CAS 117-81-7	CAS 84-66-2	CAS 131-11-3	CAS 78-59-1	CAS 91-20-3	CAS 98-95-3	CAS 85-01-8
Well Name	Sample Identifier	Sample Date	mg/L ^a	Screening Value (µg/L) ^b														
			0.0167 ^a	10.1 ^g	70 ^f	39 ^e	750 ^e	30 ^f	91 ^c	1900 ^c	2000 ^c	6 ^d	15000 ^c	15000 ^c	780 ^c	30 ^f	1.4 ^c	NE
TMW40S	TMW40S042018*	4/27/18	NA	NA	4.8 UJ	21 J	1.1 UJ	1.1 UJ	4.4 UJ	2.2 UJ	1.1 UJ	1.5 J	2.2 UJ	2.2 UJ	2.2 UJ	1.1 UJ	1.1 UJ	1.1 UJ
	TMW40S102017	10/27/17	NA	NA	4.8 U	17 U	1.1 U	1.1 U	4.4 UJ	2.2 U	1.1 U	4.8 U	2.2 U	2.2 U	2.2 U	1.1 U	1.1 U	1.1 U
	TMW40S042017	4/24/17	NA	NA	1.1 U	12 J	1.1 U	1.1 U	4.4 U	0.55 U	0.55 U	2.2 U	1.1 U	0.55 U	0.55 U	1.1 U	2.2 U	1.1 U
	TMW40S102016	10/2016	Well was dry and was not sampled															
TMW41	TMW41042018	4/25/18	NA	NA	4.6 U	17 U	1.1 U	1.1 U	4.2 UJ	2.1 U	1.1 U	4.6 U	2.1 U	2.1 U	2.1 U	1.1 U	1.1 U	1.1 U
	TMW41102017	10/25/17	NA	NA	5.3 U	19 U	1.2 U	1.2 U	4.8 UJ	2.4 U	1.2 U	5.3 U	2.4 U	2.4 U	2.4 U	1.2 U	1.2 U	1.2 U
	TMW41042017	4/19/17	NA	NA	1.0 U	31 U	1.0 U	1.0 U	4.1 U	0.51 U	0.51 U	2.0 U	1.0 U	0.51 U	0.51 U	1.0 U	2.0 U	1.0 U
	TMW41102016	10/27/16	NA	NA	1.1 UJ	32 U	1.1 U	1.1 U	4.2 U	0.53 U	0.53 U	1.0 J	1.1 U	0.53 U	0.53 U	1.1 UJ	2.1 U	1.1 U
TMW43	TMW43042018	5/2/18	NA	NA	1.1 U	32 U	1.1 U	1.1 U	4.3 UJ	0.54 U	0.54 U	2.2 U	1.1 U	0.54 U	0.54 U	1.1 U	2.2 U	1.1 U
	TMW43042018FD ^c	5/2/18	NA	NA	1.0 U	31 U	1.0 U	1.0 U	4.1 UJ	0.33 J	0.51 U	2.1 U	1.0 U	0.29 J	0.51 U	0.31 J	2.1 U	0.29 J
	TMW43102017	10/24/17	NA	NA	5.1 U	19 U	1.2 U	1.2 U	4.7 UJ	2.3 U	1.2 U	5.1 U	2.3 U	2.3 U	2.3 U	1.2 U	1.2 U	1.2 U
	TMW43102017FD ^c	10/24/17	NA	NA	4.9 U	18 U	1.1 U	1.1 U	4.5 UJ	2.2 U	1.1 U	4.9 U	2.2 U	2.2 U	2.2 U	1.1 U	1.1 U	0.40 J
	TMW43042017	4/27/17	NA	NA	1.1 U	32 U	1.1 U	1.1 U	4.2 U	0.53 U	0.53 U	2.1 U	1.1 U	0.53 U	0.53 U	1.1 U	2.1 U	1.1 U
	DTW43042017 ^c	4/27/17	NA	NA	1.1 U	32 U	1.1 U	1.1 U	4.2 U	0.53 U	0.53 U	2.1 U	1.1 U	0.53 U	0.53 U	1.1 U	2.1 U	1.1 U
	TMW43102016	11/3/16	NA	NA	1.1 U	32 U	1.1 U	1.1 U	4.2 U	0.53 U	0.53 U	2.1 U	1.1 U	0.53 U	0.53 U	1.1 UJ	2.1 U	1.1 U
	DTW43102016 ^c	11/3/16	NA	NA	1.1 U	32 U	1.1 U	1.1 U	4.2 U	0.53 U	0.53 U	2.1 U	1.1 U	0.53 U	0.53 U	1.1 UJ	2.1 U	1.1 U
TMW44	TMW44042018	4/25/18	NA	NA	4.8 U	17 U	1.1 U	1.1 U	4.4 UJ	2.2 U	1.1 U	4.8 U	2.2 U	2.2 U	2.2 U	1.1 U	1.1 U	1.1 U
	TMW44102017	10/25/17	NA	NA	4.7 U	17 U	1.1 U	1.1 U	4.3 UJ	2.1 U	1.1 U	4.7 U	2.1 U	2.1 U	2.1 U	1.1 U	1.1 U	1.1 U
	TMW44042017	4/19/17	NA	NA	1.2 U	12 J	1.2 U	1.2 U	4.8 U	0.60 U	0.60 U	2.4 U	1.2 U	0.60 U	0.60 U	1.2 U	2.4 U	1.2 U
	TMW44102016	10/27/16	NA	NA	1.0 UJ	31 U	1.0 U	1.0 U	4.2 U	0.52 U	0.52 U	2.2 J	1.0 U	0.52 U	0.52 U	1.0 UJ	2.1 U	1.0 U
TMW45	TMW45042018	5/2/18	NA	NA	1.1 U	33 U	1.1 U	1.1 U	4.4 UJ	0.55 U	0.55 U	2.2 U	1.1 U	0.55 U	0.55 U	1.1 U	2.2 U	1.1 U
	TMW45102017	10/27/17	NA	NA	4.5 U	16 U	1.0 U	1.0 U	4.1 UJ	2.0 U	1.0 U	4.5 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	TMW45042017	4/28/17	NA	NA	1.1 U	32 U	1.1 U	1.1 U	4.2 U	0.53 U	0.53 U	2.1 U	1.1 U	0.53 U	0.53 U	1.1 U	2.1 U	1.1 U
	TMW45102016	11/4/16	NA	NA	1.1 U	32 U	1.1 U	1.1 U	4.3 U	0.54 U	0.54 U	2.1 U	1.1 U	0.54 U	0.54 U	1.1 U	2.1 U	1.1 U
	DTW45102016	11/4/16	NA	NA	1.1 U	32 U	1.1 U	1.1 U	4.3 U	0.54 U	0.54 U	2.3 J	1.1 U	0.54 U	0.54 U	1.1 U	2.1 U	1.1 U
TMW46	TMW46042018	4/25/18	NA	NA	4.7 U	17 U	1.1 U	1.1 U	4.3 UJ	2.1 U	1.1 U	4.7 U	2.1 U	2.1 U	2.1 U	1.1 U	1.1 U	1.1 U
	TMW46102017	10/25/17	NA	NA	4.8 U	17 U	1.1 U	1.1 U	4.3 UJ	2.2 U	1.1 U	4.8 U	2.2 U	2.2 U	2.2 U	1.1 U	1.1 U	1.1 U
	TMW46042017	4/20/17	NA	NA	1.0 U	31 U	1.0 U	1.0 U	4.1 U	0.51 U	0.51 U	2.0 U	1.0 U	0.51 U	0.51 U	1.0 U	2.0 U	1.0 U
	TMW46102016	10/28/16	NA	NA	1.1 UJ	34 U	1.1 U	1.1 U	4.5 U	0.56 U	0.56 U	2.2 U	1.1 U	0.56 U	0.56 U	1.1 UJ	2.2 U	1.1 U
TMW47	TMW47042018	5/3/18	NA	NA	0.55 J	31 U	0.70 J	1.1 J	4.1 UJ	0.51 U	0.51 U	2.1 U	1.0 U	0.51 U	0.51 U	0.94 J	2.1 U	1.0 U
	TMW47102017	10/26/17	NA	NA	4.8 U	18 U	1.1 U	1.1 U	4.4 UJ	2.2 U	1.1 U	4.8 U	2.2 U	2.2 U	2.2 U	1.1 U	1.1 U	1.1 U
	TMW47042017	4/25/17	NA	NA	1.1 U	33 U	1.1 U	1.1 U	4.4 U	0.55 U	0.55 U	2.2 U	1.1 U	0.55 U	0.55 U	1.1 U	2.2 U	1.1 U
	TMW47102016	11/4/16	NA	NA	1.1 U	33 U	1.1 U	1.1 U	4.5 U	0.56 U	0.56 U	2.2 U	1.1 U	0.56 U	0.56 U	1.1 U	2.2 U	1.1 U
Northern Bedrock Groundwater Zone																		
BGMW07	BGMW07042018	4/26/18	NA	NA	4.8 U	17 U	1.1 U	1.1 U	4.4 U	2.2 U	1.1 U	4.8 U	2.2 U	2.2 U	2.2 U	1.1 U	1.1 U	1.1 U
BGMW08	BGMW08042018	04/2018	Well was dry and was not sampled															
BGMW09	BGMW09042018	5/1/18	NA	NA	6.2 U	22 U	1.4 U	1.4 U	5.6 U	2.8 U	1.4 U	6.2 U	2.8 U	2.8 U	2.8 U	1.4 U	1.4 U	1.4 U
BGMW10	BGMW10042018	4/27/18	NA	NA	4.6 U	17 U	1.1 U	1.1 U	4.2 U	2.1 U	1.1 U	4.6 U	2.1 U	2.1 U	2.1 U	1.1 U	1.1 U	1.1 U
TMW14A	TMW14A042018	5/3/18	NA	NA	1.0 U	31 U	1.0 U	1.0 U	4.2 UJ	0.52 U	0.52 U	2.1 U	0.40 J	0.52 U	0.52 U	1.0 U	2.1 U	1.0 U
	TMW14A102017	10/26/17	NA	NA	5.0 U	18 U	1.1 U	1.1 U	4.5 UJ	2.3 U	1.1 U	5.0 U	2.3 U	2.3 U	2.3 U	1.1 U	1.1 U	1.1 U
	TMW14A042017	4/27/17	NA	NA	1.0 U	31 U	1.0 U	1.0 U	4.1 U	0.51 U	0.51 U	2.1 U	1.0 U	0.51 U	0.51 U	1.0 U	2.1 U	1.0 U
	TMW14A102016	11/3/16	NA	NA	1.0 U	31 U	1.0 U	1.0 U	4.2 U	0.52 U	0.52 U	2.1 U	1.0 U	0.52 U	0.52 U	1.0 UJ	2.1 U	1.0 U

Table 5-6: Summary of Semivolatile Organic Compound and Total Petroleum Hydrocarbons Analytical Results (µg/L)

			Diesel Range Organics ^a	Gasoline Range Organics ^g	1,2,4- trichloro- benzene	2,4-Dinitro- phenol	2-chloro- naphthalen e	2-methyl- naphthalen e	4- Nitrophenol	Acetophenone	Benzyl alcohol	Bis (2- ethylhexyl) phthalate	Diethyl phthalate	Dimethyl phthalate	Isophorone	Naphthalene	Nitrobenzene	Phenanthrene
			CAS DRO	CAS GRO	CAS 120-82-1	CAS 51-28-5	CAS 91-58-7	CAS 91-57-6	CAS 100-02-7	CAS 98-86-2	CAS 100-51-6	CAS 117-81-7	CAS 84-66-2	CAS 131-11-3	CAS 78-59-1	CAS 91-20-3	CAS 98-95-3	CAS 85-01-8
Well Name	Sample Identifier	Sample Date	mg/L ^a	Screening Value (µg/L) ^b														
			0.0167 ^a	10.1 ^g	70 ^f	39 ^c	750 ^c	30 ^f	91 ^c	1900 ^c	2000 ^c	6 ^d	15000 ^c	15000 ^c	780 ^c	30 ^f	1.4 ^c	NE
TMW16	TMW16042018	4/25/18	NA	NA	4.6 U	17 U	1.1 U	1.1 U	4.2 UJ	2.1 U	1.1 U	4.6 U	2.1 U	2.1 U	2.1 U	1.1 U	1.1 U	1.1 U
	TMW16102017	10/20/17	NA	NA	5.0 U	18 U	1.1 U	1.1 U	4.5 UJ	2.3 U	1.1 U	5.0 U	2.3 U	2.3 U	2.3 U	1.1 U	1.1 U	1.1 U
	TMW16042017	4/20/17	NA	NA	1.0 U	31 U	1.0 U	1.0 U	4.1 U	0.51 U	0.51 U	2.1 U	1.0 U	0.51 U	0.51 U	1.0 U	2.1 U	1.0 U
	TMW16102016	10/28/16	NA	NA	1.1 UJ	34 U	1.1 U	1.1 U	4.5 U	0.56 U	0.56 U	2.3 U	1.1 U	0.56 U	0.56 U	1.1 UJ	2.3 U	1.1 U
TMW18	TMW18042018	4/25/18	NA	NA	4.5 U	16 U	1.0 U	1.0 U	4.1 UJ	2.1 U	1.0 U	19	2.1 U	2.1 U	2.1 U	1.0 U	1.0 U	1.0 U
	TMW18102017	10/19/17	NA	NA	5.2 U	19 U	1.2 U	1.2 U	4.8 UJ	2.4 U	1.2 U	5.5 J	2.4 U	2.4 U	2.4 U	1.2 U	1.2 U	1.2 U
	TMW18042017	4/20/17	NA	NA	1.1 U	32 U	1.1 U	1.1 U	4.3 U	0.48 J	0.53 U	5.1 J	1.1 U	0.53 U	0.53 U	1.1 U	2.1 U	1.1 U
	TMW18102016	10/28/16	NA	NA	1.0 UJ	31 U	1.0 U	1.0 U	4.2 U	0.54 U	0.52 U	2.1 J	1.0 U	0.52 U	0.52 U	1.0 UJ	2.1 U	1.0 U
TMW19	TMW19042018	4/25/18	NA	NA	4.4 U	16 U	1.0 U	1.0 U	4.0 UJ	2.0 U	1.0 U	4.4 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	TMW19102017	10/19/17	NA	NA	4.9 U	18 U	1.1 U	1.1 U	4.4 UJ	2.2 U	1.1 U	4.9 U	2.2 U	2.2 U	2.2 U	1.1 U	1.1 U	1.1 U
	TMW19042017	4/20/17	NA	NA	1.0 U	31 U	1.0 U	1.0 U	4.1 U	0.51 U	0.51 U	2.0 U	1.0 U	0.51 U	0.51 U	1.0 U	2.0 U	1.0 U
	TMW19102016	10/28/16	NA	NA	1.0 UJ	31 U	1.0 U	1.0 U	4.2 U	0.52 U	0.52 U	2.1 U	1.0 U	0.52 U	0.52 U	1.0 UJ	2.1 U	1.0 U
	DTW19102016 ^c	10/28/16	NA	NA	1.1 UJ	33 U	1.1 U	1.1 U	4.4 U	0.55 U	0.55 U	2.2 U	1.1 U	0.55 U	0.55 U	1.1 UJ	2.2 U	1.1 U
TMW30	TMW30042018	4/26/18	NA	NA	4.9 U	18 U	1.1 U	1.1 U	4.4 UJ	2.2 U	1.1 U	4.9 U	2.2 U	2.2 U	2.2 U	1.1 U	1.1 U	1.1 U
	TMW30102017	10/25/17	NA	NA	5.0 U	18 U	1.1 U	1.1 U	4.5 UJ	2.3 U	1.1 U	5.0 U	2.3 U	2.3 U	2.3 U	1.1 U	1.1 U	1.1 U
	TMW30042017	4/19/17	NA	NA	1.1 U	33 U	1.1 U	1.1 U	4.4 U	0.55 U	0.55 U	2.2 U	1.1 U	0.55 U	0.55 U	1.1 U	2.2 U	1.1 U
	TMW30102016	10/27/16	NA	NA	1.0 UJ	30 U	1.0 U	1.0 U	4.0 U	0.50 U	0.50 U	1.9 J	1.0 U	0.50 U	0.50 U	1.0 UJ	2.0 U	1.0 U
TMW31D	TMW31D042018	5/2/18	NA	NA	1.1 U	32 U	1.1 U	1.1 U	4.3 UJ	0.54 U	0.54 U	2.1 U	1.1 U	0.54 U	0.54 U	1.1 U	2.1 U	1.1 U
	TMW31D042018FD ^c	5/2/18	NA	NA	1.0 U	31 U	0.31 J	1.0 U	4.2 UJ	0.52 U	0.52 U	2.1 U	1.0 U	0.52 U	0.52 U	1.0 U	2.1 U	1.0 U
	TMW31D102017	10/26/17	NA	NA	4.7 U	17 U	1.1 U	1.1 U	4.2 UJ	2.1 U	1.1 U	4.7 U	2.1 U	2.1 U	2.1 U	1.1 U	1.1 U	1.1 U
	TMW31D102017FD ^c	10/26/17	NA	NA	4.6 U	17 U	1.0 U	1.0 U	4.2 UJ	2.1 U	1.0 U	4.6 U	2.1 U	2.1 U	2.1 U	1.0 U	1.0 U	1.0 U
	TMW31D042017	4/27/17	NA	NA	1.0 U	31 U	1.0 U	1.0 U	4.1 U	0.51 U	0.51 U	2.1 U	1.0 U	0.51 U	0.51 U	1.0 U	2.1 U	1.0 U
	DTW31D042017 ^c	4/27/17	NA	NA	1.1 U	33 U	1.1 U	1.1 U	4.4 U	0.55 U	0.55 U	2.2 U	1.1 U	0.55 U	0.55 U	1.1 U	2.2 U	1.1 U
	TMW31D102016	10/31/16	NA	NA	0.98 U	29 U	0.98 U	0.98 U	3.9 U	0.49 U	0.49 U	0.82 J	0.98 U	0.49 U	0.49 U	0.98 U	2.0 U	0.98 U
DTW31D102016 ^c	10/31/16	NA	NA	1.0 U	30 U	1.0 U	1.0 U	4.0 U	0.50 U	0.50 U	2.0 U	1.0 U	0.50 U	0.50 U	1.0 U	2.0 U	1.0 U	
TMW32	TMW32042018	5/1/18	NA	NA	4.7 U	17 U	1.1 U	1.1 U	4.3 UJ	2.1 U	1.1 U	4.7 U	2.1 U	2.1 U	2.1 U	1.1 U	1.1 U	1.1 U
	TMW32102017	10/20/17	NA	NA	5.1 U	19 U	1.2 U	1.2 U	4.6 UJ	2.3 U	1.2 U	5.1 U	2.3 U	2.3 U	2.3 U	1.2 U	1.2 U	1.2 U
	TMW32042017	4/27/17	NA	NA	1.0 U	30 U	1.0 U	1.0 U	4.0 U	0.50 U	0.50 U	2.0 U	1.0 U	0.50 U	0.50 U	1.0 U	2.0 U	1.0 U
	TMW32102016	11/2/16	NA	NA	0.99 U	30 U	0.99 U	0.99 U	4.0 U	0.50 U	0.50 U	2.0 U	0.99	0.50 U	0.50 U	0.99 UJ	2.0 U	0.99 U
TMW36	TMW36042018	4/25/18	NA	NA	4.6 U	17 U	1.0 U	1.0 U	4.2 UJ	2.1 U	1.0 U	4.6 U	2.1 U	2.1 U	2.1 U	1.0 U	1.0 U	1.0 U
	TMW36102017	10/19/17	NA	NA	5.4 U	20 U	1.2 U	1.2 U	4.9 UJ	2.4 U	1.2 U	5.4 U	2.4 U	2.4 U	2.4 U	1.2 U	1.2 U	1.2 U
	TMW36042017	4/20/17	NA	NA	1.0 U	30 U	1.0 U	1.0 U	4.0 U	0.50 U	0.50 U	0.65 J	1.0 U	0.50 U	0.50 U	1.0 U	2.0 U	1.0 U
	TMW36102016	10/27/16	NA	NA	1.0 UJ	30 U	1.0 U	1.0 U	4.0 U	0.50 U	0.50 U	4.4 J	1.0 U	0.50 U	0.50 U	1.0 UJ	2.0 U	1.0 U
TMW37	TMW37042018	4/25/18	NA	NA	4.6 U	17 U	1.1 U	1.1 U	4.2 UJ	2.1 U	1.1 U	4.6 U	2.1 U	2.1 U	2.1 U	1.1 U	1.1 U	1.1 U
	TMW37102017	10/20/17	NA	NA	4.7 U	17 U	1.1 U	1.1 U	4.3 UJ	2.1 U	1.1 U	4.7 U	2.1 U	2.1 U	2.1 U	1.1 U	1.1 U	1.1 U
	TMW37042017	4/20/17	NA	NA	1.0 U	30 U	1.0 U	1.0 U	4.0 U	0.50 U	0.50 U	2.0 U	1.0 U	0.50 U	0.50 U	1.0 U	2.0 U	1.0 U
	TMW37102016	10/27/16	NA	NA	1.0 UJ	31 U	1.0 U	1.0 U	4.1 U	0.52 U	0.52 U	1.1 J	1.0 U	0.52 U	0.52 U	1.0 UJ	2.1 U	1.0 U
TMW38	TMW38042018	5/1/18	NA	NA	4.4 U	16 U	0.99 U	0.99 U	4.0 UJ	2.0 U	0.99 U	4.4 U	2.0 U	2.0 U	2.0 U	0.99 U	0.99 U	0.99 U
	TMW38102017	10/26/17	NA	NA	5.0 U	18 U	1.1 U	1.1 U	4.6 UJ	2.3 U	1.1 U	5.0 U	2.3 U	2.3 U	2.3 U	1.1 U	1.1 U	1.1 U
	TMW38042017	4/26/17	NA	NA	1.0 U	30 U	1.0 U	1.0 U	4.0 U	0.50 U	0.50 U	2.0 U	1.0 U	0.50 U	0.50 U	1.0 U	2.0 U	1.0 U
	TMW38102016	11/4/16	NA	NA	1.1 U	32 U	1.1 U	1.1 U	4.2 U	0.53 U	0.53 U	2.1 U	1.1 U	0.53 U	0.53 U	1.1 U	2.1 U	1.1 U

Table 5-6: Summary of Semivolatile Organic Compound and Total Petroleum Hydrocarbons Analytical Results (µg/L)

			Diesel Range Organics ^a	Gasoline Range Organics ^g	1,2,4- trichloro- benzene	2,4-Dinitro- phenol	2-chloro- naphthalen e	2-methyl- naphthalen e	4- Nitrophenol	Acetophenone	Benzyl alcohol	Bis (2- ethylhexyl) phthalate	Diethyl phthalate	Dimethyl phthalate	Isophorone	Naphthalene	Nitrobenzene	Phenanthrene
			CAS DRO	CAS GRO	CAS 120-82-1	CAS 51-28-5	CAS 91-58-7	CAS 91-57-6	CAS 100-02-7	CAS 98-86-2	CAS 100-51-6	CAS 117-81-7	CAS 84-66-2	CAS 131-11-3	CAS 78-59-1	CAS 91-20-3	CAS 98-95-3	CAS 85-01-8
Well Name	Sample Identifier	Sample Date	mg/L ^a	Screening Value (µg/L) ^b														
			0.0167 ^a	10.1 ^g	70 ^f	39 ^e	750 ^e	30 ^f	91 ^c	1900 ^c	2000 ^c	6 ^d	15000 ^c	15000 ^c	780 ^c	30 ^f	1.4 ^c	NE
TMW39D	TMW39D042018	5/3/18	NA	NA	1.0 U	31 U	1.0 U	1.0 U	4.1 UJ	0.52 U	0.52 U	2.1 U	1.0 U	0.52 U	0.52 U	1.0 U	2.1 U	1.0 U
	TMW39D102017	10/27/17	NA	NA	4.6 U	17 U	1.1 U	1.1 U	4.2 UJ	2.1 U	1.1 U	4.6 U	2.1 U	2.1 U	2.1 U	1.1 U	1.1 U	1.1 U
	TMW39D042017	4/27/17	NA	NA	1.1 U	33 U	1.1 U	1.1 U	4.4 U	0.55 U	0.55 U	2.2 U	1.1 U	0.55 U	0.55 U	1.1 U	2.2 U	1.1 U
	TMW39D102016	10/31/16	NA	NA	1.0 U	31 U	1.0 U	1.0 U	4.1 U	0.51 U	0.51 U	2.1 U	1.0 U	0.51 U	0.51 U	1.0 U	2.1 U	1.0 U
TMW40D	TMW40D042018	5/1/18	NA	NA	4.9 U	18 U	1.1 U	1.1 U	4.4 UJ	2.2 U	1.1 U	4.9 U	2.2 U	2.2 U	2.2 U	1.1 U	1.1 U	1.1 U
	TMW40D102017	10/23/17	NA	NA	4.8 U	18 U	1.1 U	1.1 U	4.4 UJ	2.2 U	1.1 U	4.8 U	2.2 U	2.2 U	2.2 U	1.1 U	1.1 U	1.1 U
	TMW40D042017	4/25/17	NA	NA	1.0 U	31 U	1.0 U	1.0 U	4.2 U	0.52 U	0.52 U	2.1 U	1.0 U	0.52 U	0.52 U	1.0 U	2.1 U	1.0 U
	TMW40D102016	10/31/16	NA	NA	1.1 U	32 U	1.1 U	1.1 U	4.3 U	0.53 U	0.53 U	2.1 U	1.1 U	0.53 U	0.53 U	1.1 U	2.1 U	1.1 U
TMW48	TMW48042018	5/2/18	NA	NA	1.1 U	32 U	1.1 U	1.1 U	4.2 UJ	0.53 U	0.53 U	2.1 U	1.1 U	0.53 U	0.53 U	1.1 U	2.1 U	1.1 U
	TMW48102017	10/27/17	NA	NA	5.0 U	18 U	1.1 U	1.1 U	4.6 UJ	2.3 U	1.1 U	5.0 U	2.3 U	2.3 U	2.3 U	1.1 U	1.1 U	1.1 U
	TMW48042017	4/26/17	NA	NA	1.1 U	34 U	1.1 U	1.1 U	4.5 U	0.56 U	0.56 U	2.2 U	1.1 U	0.56 U	0.56 U	1.1 U	2.2 U	1.1 U
	TMW48102016	11/1/16	NA	NA	1.1 U	32 U	1.1 U	1.1 U	4.3 U	0.53 U	0.53 U	2.1 U	1.1 U	0.53 U	0.53 U	1.1 U	2.1 U	1.1 U
TMW49	TMW49042018	5/4/18	NA	NA	1.1 U	32 U	1.1 U	1.1 U	4.3 UJ	0.54 U	0.54 U	2.2 U	1.1 U	0.54 U	0.54 U	1.1 U	2.2 U	1.1 U
	TMW49102017	10/27/17	NA	NA	4.7 U	17 U	1.1 U	1.1 U	4.3 UJ	2.2 U	1.1 U	4.7 U	2.2 U	2.2 U	2.2 U	1.1 U	14 J	1.1 U
	TMW49042017	4/26/17	NA	NA	1.1 U	33 U	1.1 U	1.1 U	4.4 U	0.56 U	0.56 U	0.73 J	1.1 U	0.56 U	0.56 U	1.1 U	2.2 U	1.1 U
	TMW49102016	11/2/16	NA	NA	1.0 U	31 U	1.0 U	1.0 U	4.1 U	0.51 U	0.51 U	2.0 U	1.0 U	0.51 U	0.51 U	1.0 UJ	2.0 U	1.0 U

Notes:

* Due to potential cross contamination from lab quality control samples, certain LODs were skewed higher than the screening values.

^a DRO results are presented in mg/L. The New Mexico Environment Department Risk Assessment Guidance screening level (February 2019 [Revision 1, 3/7/19]) of 16.7 µg/L for Diesel #2/crankcase oil is converted to .0167 mg/L for comparison

^b DROs and GROs are analyzed using EPA Method 8015C, and the remaining SVOCs are analyzed using EPA Method 8270D.

^c EPA Region 6 regional screening levels: EPA, May 2019. <https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables>

^d EPA maximum contaminant level - CFR Title 40, Parts 141, 142, and 143.

^e Indicates a field duplicate sample.

^fNew Mexico Water Quality Control Commission standard - NMAC 20.6.2.3103

^gNew Mexico Environment Department Risk Assessment Guidance screening level for gasoline (February 2019 [Revision 1, 3/7/19]).

Bold indicates analyte was positively detected above screening values.

Acronyms and Abbreviations:

µg/L = microgram per liter
CAS = Chemical Abstracts Service (registry number)
CFR = Code of Federal Regulations
DRO = diesel range organics
EPA = U.S. Environmental Protection Agency
GRO = gasoline range organics
J = (Estimated) The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to nonconformances discovered during data validation.
LOD = limit of detection
mg/L = milligram per liter
NA = not analyzed
NE = not established
SVOC = semivolatile organic compound
U = (Non-detected) The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).
UJ = (Non-detected estimated) The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.

Table 5-7: Summary of Pesticides and Herbicides Analytical Results (µg/L)

			delta-BHC	2,2-Dichloropropionic Acid
			CAS 319-86-8	CAS 75-99-0
Well Name	Sample Identifier	Sample Date	Screening Value (µg/L) ^a	
			0.25 ^d	200 ^b
Northern Alluvial Groundwater Zone				
BGMW01	BGMW01042018	4/27/18	0.023 U	NA
	BGMW01102017	10/23/17	0.022 UJ	NA
	BGMW01042017	4/24/17	0.021 U	NA
	BGMW01102016	11/2/16	0.024 U	NA
BGMW02	BGMW02042018	4/26/18	0.021 U	NA
	BGMW02102017	10/20/17	0.024 UJ	NA
	BGMW02042017	4/21/17	0.022 U	NA
	BGMW02102016	11/2/16	0.023 U	NA
BGMW03	BGMW03042018	4/24/18	0.022 U	NA
	BGMW03102017	10/19/17	0.021 UJ	NA
	BGMW03042017	4/20/17	0.021 U	NA
	BGMW03102016	10/28/16	0.022 U	NA
FW31	FW31042018	4/23/18	0.020 UJ	NA
	FW31102017	10/18/17	0.021 U	NA
	FW31042017	4/17/17	0.021 U	NA
	FW31102016	10/26/16	0.022 U	NA
MW01	MW01042018	4/23/18	0.022 UJ	NA
	MW01102017	10/24/17	0.020 UJ	NA
	MW01042017	4/19/17	0.020 UJ	NA
	MW01102016	10/27/16	0.020 U	NA
MW02	MW02042018	4/23/18	0.023 U	NA
	MW02102017	10/24/17	0.021 UJ	NA
	MW02042017	4/19/17	0.021 UJ	NA
	MW02102016	10/27/16	0.021 U	NA
MW20	MW20042018	4/30/18	0.021 U	NA
	MW20102017	10/23/17	0.023 UJ	NA
	MW20042017	4/24/17	0.020 U	NA
	MW20102016	11/4/16	0.020 U	NA
MW22D	MW22D042018	4/27/18	0.022 U	NA
	MW22D102017	10/23/17	0.020 UJ	NA
	MW22D042017	4/19/17	0.021 U	NA
	MW22D102016	10/28/16	0.021 U	NA
MW22S	MW22S042018	04/2018	Well was dry and not sampled	
	MW22S102017	10/2017	Well was dry and not sampled	
	MW22S042017	04/2017	Well was dry and not sampled	
	MW22S102016	10/2016	Well was dry and not sampled	

Table 5-7: Summary of Pesticides and Herbicides Analytical Results (µg/L)

			delta-BHC	2,2-Dichloropropionic Acid
			CAS 319-86-8	CAS 75-99-0
Well	Sample	Sample	Screening Value (µg/L) ^a	
Name	Identifier	Date	0.25 ^d	200 ^b
MW23	MW23042018	4/24/18	0.020 U	NA
	MW23042018FD ^c	4/24/18	0.021 U	NA
	MW23102017	10/18/17	0.021 U	NA
	MW23102017FD ^c	10/18/17	0.022 U	NA
	MW23042017	4/18/17	0.020 U	NA
	MW23102016	10/27/16	0.021 U	NA
MW24	MW24042018	4/23/18	0.021 UJ	NA
	MW24042018FD ^c	4/23/18	0.020 UJ	NA
	MW24102017	10/17/17	0.021 U	NA
	MW24102017FD 01 ^c	10/17/17	0.022 U	NA
	MW24042017	4/17/17	0.020 U	NA
	MW24102016	10/26/16	0.020 U	NA
TMW08	TMW08042018	4/27/18	0.022 U	NA
	TMW08102017	10/20/17	0.021 UJ	NA
	TMW08042017	4/21/17	0.021 U	NA
	TMW08102016	11/1/16	0.021 U	NA
TMW23	TMW23042018	4/25/18	0.021 UJ	NA
	TMW23102017	10/19/17	0.022 UJ	NA
	TMW23042017	4/20/17	0.021 UJ	NA
	TMW23102016	10/28/16	0.022 U	NA
TMW24	TMW24042018	4/30/18	0.021 U	NA
	TMW24102017	10/24/17	0.023 UJ	NA
	TMW24042017	4/25/17	0.021 U	NA
	TMW24102016	11/3/16	0.020 U	NA
TMW31S	TMW31S042018	4/25/18	0.022 U	NA
	TMW31S102017	10/25/17	0.020 UJ	NA
	TMW31S042017	4/19/17	0.023 U	NA
	TMW31S102016	10/27/16	0.021 U	NA
TMW35	TMW35042018	4/27/18	0.022 U	NA
	TMW35102017	10/23/17	0.023 UJ	NA
	TMW35042017	4/24/17	0.022 U	NA
	TMW35102016	10/31/16	0.022 U	NA
TMW39S	TMW39S042018	4/25/18	0.023 U	NA
	TMW39S102017	10/18/17	0.021 U	NA
	TMW39S042017	4/19/17	0.023 U	NA
	TMW39S102016	10/27/16	0.020 U	NA

Table 5-7: Summary of Pesticides and Herbicides Analytical Results (µg/L)

			delta-BHC	2,2-Dichloropropionic Acid
			CAS 319-86-8	CAS 75-99-0
Well Name	Sample Identifier	Sample Date	Screening Value (µg/L) ^a	
			0.25 ^d	200 ^b
TMW40S	TMW40S042018	4/27/18	0.031 J	NA
	TMW40S102017	10/27/17	0.021 UJ	NA
	TMW40S042017	4/24/17	0.022 U	NA
	TMW40S102016	10/2016	Well was dry and not sampled	
TMW41	TMW41042018	4/25/18	0.021 U	NA
	TMW41102017	10/25/17	0.024 UJ	NA
	TMW41042017	4/19/17	0.021 U	NA
	TMW41102016	10/27/16	0.019 U	NA
TMW43	TMW43042018	5/2/18	0.021 U	NA
	TMW43042018FD ^c	5/2/18	0.022 U	NA
	TMW43102017	10/24/17	0.022 UJ	NA
	TMW43102017FD ^c	10/24/17	0.030 J	NA
	TMW43042017	4/27/17	0.021 U	NA
	TMW43102016	11/3/16	0.020 U	NA
TMW44	TMW44042018	4/25/18	0.022 U	NA
	TMW44102017	10/25/17	0.022 UJ	NA
	TMW44042017	4/19/17	0.023 U	NA
	TMW44102016	10/27/16	0.021 U	NA
TMW45	TMW45042018	5/2/18	0.022 U	NA
	TMW45102017	10/27/17	0.020 U	NA
	TMW45042017	4/28/17	0.021 U	NA
	TMW45102016	11/4/16	0.021 U	NA
TMW46	TMW46042018	4/25/18	0.023 U	NA
	TMW46102017	10/25/17	0.022 UJ	NA
	TMW46042017	4/20/17	0.020 U	NA
	TMW46102016	10/28/16	0.020 U	NA
TMW47	TMW47042018	5/3/18	0.022 U	NA
	TMW47102017	10/26/17	0.019 U	NA
	TMW47042017	4/25/17	0.021 U	NA
	TMW47102016	11/4/16	0.022 U	NA
Northern Bedrock Groundwater Zone				
BGMW07	BGMW07042018	4/26/18	0.022 U	1.8 J
BGMW08	BGMW08042018	04/2018	Well was dry and not sampled	
BGMW09	BGMW09042018	5/1/18	0.022 UJ	2.0 U
BGMW10	BGMW10042018	4/27/18	0.021 U	1.9 U

Table 5-7: Summary of Pesticides and Herbicides Analytical Results (µg/L)

			delta-BHC	2,2- Dichloropropionic Acid
			CAS 319-86-8	CAS 75-99-0
Well	Sample	Sample	Screening Value (µg/L) ^a	
Name	Identifier	Date	0.25 ^d	200 ^b
TMW30	TMW30042018	4/26/18	0.022 U	NA
	TMW30102017	10/25/17	0.022 UJ	NA
	TMW30042017	4/19/17	0.021 U	NA
	TMW30102016	10/27/16	0.020 U	NA
TMW31D	TMW31D042018	5/2/18	0.022 U	NA
	TMW31D042018FD ^c	5/2/18	0.022 U	NA
	TMW31D102017	10/26/17	0.023 U	NA
	TMW31D102017FD ^c	10/26/17	0.021 U	NA
	TMW31D042017	4/27/17	0.022 U	NA
	TMW31D102016	10/31/16	0.020 U	NA
TMW32	TMW32042018	5/1/18	0.020 U	NA
	TMW32102017	10/20/17	0.024 UJ	NA
	TMW32042017	4/27/17	0.021 U	NA
	TMW32102016	11/2/16	0.020 U	NA
TMW36	TMW36042018	4/25/18	0.020 U	NA
	TMW36102017	10/19/17	0.021 UJ	NA
	TMW36042017	4/20/17	0.020 U	NA
	TMW36102016	10/27/16	0.020 U	NA
TMW37	TMW37042018	4/25/18	0.021 U	NA
	TMW37102017	10/20/17	0.022 UJ	NA
	TMW37042017	4/20/17	0.021 U	NA
	TMW37102016	10/27/16	0.021 U	NA
TMW38	TMW38042018	5/1/18	0.021 U	NA
	TMW38102017	10/26/17	0.023 U	NA
	TMW38042017	4/26/17	0.020 U	NA
	TMW38102016	11/4/16	0.019 U	NA
TMW39D	TMW39D042018	5/3/18	0.021 U	NA
	TMW39D102017	10/27/17	0.021 U	NA
	TMW39D042017	4/27/17	0.022 U	NA
	TMW39D102016	10/31/16	0.021 U	NA
TMW40D	TMW40D042018	5/1/18	0.022 U	NA
	TMW40D102017	10/23/17	0.022 UJ	NA
	TMW40D042017	4/25/17	0.021 U	NA
	TMW40D102016	10/31/16	0.021 U	NA

Table 5-7: Summary of Pesticides and Herbicides Analytical Results (µg/L)

			delta-BHC	2,2-Dichloropropionic Acid
			CAS 319-86-8	CAS 75-99-0
Well	Sample	Sample	Screening Value (µg/L) ^a	
Name	Identifier	Date	0.25 ^d	200 ^b
TMW48	TMW48042018	5/2/18	0.021 U	NA
	TMW48102017	10/27/17	0.023 U	NA
	TMW48042017	4/26/17	0.022 U	NA
	TMW48102016	11/1/16	0.019 U	NA
TMW49	TMW49042018	5/4/18	0.022 U	NA
	TMW49102017	10/27/17	0.022 U	NA
	TMW49042017	4/26/17	0.022 U	NA
	TMW49102016	11/2/16	0.021 U	NA

Notes:

^a Pesticides are analyzed using EPA Method 8081A and herbicides are analyzed using EPA Method 8151A.

^b EPA maximum contaminant level – 40 CFR Parts 141, 142, and 143.

^c Indicates a field duplicate sample.

^d EPA drinking water maximum contaminant level: EPA, May 2019.

<https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables>

Bolded values indicate analyte was positively detected above screening values.

Acronyms and Abbreviations:

µg/L = microgram per liter

CAS = Chemical Abstracts Service

EPA = U.S. Environmental Protection Agency

J = (Estimated) The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to nonconformances discovered during data validation.

U = (Non-detected) The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).

UJ = (Non-detected estimated) The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.

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Table 5-8: Summary of Polychlorinated Biphenyls Analytical Results (µg/L)

			PCB-1016	PCB-1221	PCB-1232	PCB-1242	PCB-1248	PCB-1254	PCB-1260
			CAS 12674-11-2	CAS 11104-28-2	CAS 11141-16-5	CAS 53469-21-9	CAS 12672-29-6	CAS 11097-69-1	CAS 11096-82-5
Well	Sample	Sample	Screening Value (µg/L) ^a						
Name	Identifier	Date	0.5 ^b	0.47 ^b	0.47 ^b	0.5 ^b	0.5 ^b	0.4 ^b	0.5 ^b
Northern Bedrock Groundwater Zone									
BGMW07	BGMW07042018	4/26/18	0.43 U	0.27 U	0.65 U	0.32 U	0.32 U	0.27 U	0.43 U
BGMW08	BGMW08042018	04/2018	Well was dry and not sampled						
BGMW09	BGMW09042018	5/1/18	0.41 UJ	0.26 UJ	0.62 UJ	0.31 UJ	0.31 UJ	0.26 UJ	0.41 UJ
BGMW10	BGMW10042018	4/27/18	0.41 U	0.26 U	0.62 U	0.31 U	0.31 U	0.26 U	0.41 U

Notes:

^a PCBs are analyzed using EPA Method 8082A.

^b NM WQCC standards per NMAC 20.6.2.3103.

Acronyms and Abbreviations:

µg/L = microgram per liter

CAS = Chemical Abstracts Service

CFR = Code of Federal Regulations

EPA = U.S. Environmental Protection Agency

PCB = polychlorinated biphenyl

U = (Non-detected) The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).

UJ = (Non-detected estimated) The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.

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Table 5-9: Summary of Dissolved Metals Analytical Results - Method 6020A (µg/L)

			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
			CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS
			7440-36-0	7440-38-2	7440-39-3	7440-41-7	7440-43-9	7440-47-3	7440-48-4	7440-50-8	7439-92-1	7439-96-5	7440-02-0	7782-49-2	7440-22-4	7440-28-0	7440-62-2	7440-66-6
Well Name	Sample Identifier	Sample Date	Screening Value (µg/L) ^a															
			6 ^b	10 ^b	2,000 ^b	4 ^b	5 ^b	50 ^b	50 ^b	1,000 ^b	15 ^b	200 ^b	200 ^b	50 ^b	50 ^b	2 ^b	86 ^c	10,000 ^b
Northern Alluvial Groundwater Zone																		
BGMW01	BGMW01042018	4/27/2018	0.41 J	0.71 J	21	0.3 U	1.0 U	0.97 J	0.47 U	1.3 J	0.34 J	230	1.9 J	2.0 U	0.55 J	0.2 J	2.6 J	3.8 U
	BGMW01102017	10/23/17	1.0 U	0.79 J	15	0.30 U	1.0 U	1.8 U	0.21 J	1.8 U	0.70 U	170	1.6 J	2.0 U	0.10 U	0.20 U	2.0 U	8.0 U
	BGMW01042017	4/24/17	0.53 J	0.73 J	17 J	0.30 UJ	1.0 U	1.8 U	0.24 J	0.62 J	0.70 UJ	160 J	1.2 J	2.0 U	0.10 UJ	0.20 U	1.2 J	8.0 UJ
	BGMW01102016	11/2/16	1.0 U	0.68 J	15	0.30 U	1.0 U	1.8 U	0.26 J	1.1 J	0.70 U	180	1.2 J	2.0 U	0.10 U	0.20 U	1.3 J	3.4 J
BGMW02	BGMW02042018	4/26/18	1.0 U	1.0 J	17	0.30 U	1.0 U	1.8 U	0.084 J	2.4	0.7	67	0.68 J	64	0.10 U	0.20 U	6.8	5.2 U
	BGMW02102017	10/20/17	1.0 U	0.98 J	15	0.30 U	1.0 U	1.8 U	0.20 U	1.3 J	0.70 U	70	1.0 U	57	0.10 U	0.20 U	7.0 U	8.0 UJ
	BGMW02042017	4/21/17	1.0 U	0.76 J	15	0.30 U	1.0 U	3.9 J	0.082 J	0.67 J	0.70 U	67	0.48 J	65	0.10 U	0.20 U	5.1 J	8.0 U
	BGMW02102016	11/2/16	1.0 U	0.70 J	16	0.30 U	1.0 U	1.8 U	0.11 J	0.91 J	0.70 U	63	1.1 J	65	0.10 U	0.20 U	6.6	5.8 J
BGMW03	BGMW03042018	4/24/18	1.0 U	1.7 J	27	0.095 U	1.0 U	1.8 U	0.18 J	2.3 U	0.70 U	34	0.61 J	23	0.10 U	0.20 U	9.5	8.0 U
	BGMW03102017	10/19/17	1.0 U	1.6 J	30	0.30 U	1.0 U	0.80 J	0.20 U	2.2	0.70 U	8.2	1.0 U	26	0.050 J	0.20 U	8.4	8.0 U
	BGMW03042017	4/20/17	1.0 U	1.9 J	36	0.30 U	1.0 U	1.8 U	0.31 J	2.3	0.70 U	96 J	1.1 J	26 J	0.10 U	0.20 U	11	8.0 U
	BGMW03102016	10/28/16	1.0 U	1.5 J	27	0.30 U	1.0 U	1.8 U	0.21 J	1.4 J	0.70 U	31	1.8 U	30	0.10 U	0.20 U	9.1	5.8 J
FW31	FW31042018	4/23/18	1.0 U	5.7	9.4	0.30 U	1.0 U	1.8 U	0.20 U	0.83 J	0.70 U	17	1.0 U	2.0 U	0.10 U	0.20 U	9.3	8
	FW31102017	10/18/17	1.0 U	5.8	21	0.30 U	1.0 U	1.8 U	0.12 J	0.58 J	0.20 J	7.9	1.0 U	2.0 U	0.10 U	0.20 U	8.5	8.0 U
	FW31042017	4/17/17	1.0 U	7.4	14 J	0.30 U	1.0 U	1.3 J	0.20 U	1.8 U	0.70 U	0.95 UJ	1.0 U	2.0 U	0.10 U	0.20 U	13	8.0 U
	FW31102016	10/26/16	1.0 U	6.4	11	0.30 U	1.0 U	0.51 J	0.20 U	2.0 J	0.43 J	1.1 J	1.0 U	2.0 U	0.10 U	0.20 U	9.7	8.0 U
FW35	Well has been dry since 2015		Well was dry and was not sampled															
MW01	MW01042018	4/23/18	1.0 U	0.69 J	34	0.18 J	1.0 U	1.6 J	0.56 J	2.3	0.83 J	37	1.9 J	15	0.10 U	0.20 U	3.7 J	13 J
	MW01102017	10/24/17	1.0 U	1.9 J	97	0.61 J	1.0 U	5.9 J	2.4	5.6	4.3	170	4.9	16	0.10 U	0.20 U	13	47
	MW01042017	4/19/17	0.70 J	8	450	1.8	1.0 U	28	12	19	18	910	26	15	0.089 J	0.37 J	53	190
	MW01102016	10/27/16	1.0 U	0.43 J	17	0.30 U	1.0 U	1.8 U	0.20 U	1.3 J	0.70 U	2.9 J	0.68 J	18	0.10 U	0.20 U	1.8 J	7.1 J
MW02	MW02042018	4/23/18	0.55 U	1.0 U	39	0.30 U	1.0 U	1.8 U	0.20 U	1.8 U	0.70 U	1.3 J	0.32 J	11	0.10 U	0.20 U	2.0 U	23
	MW02102017	10/24/17	1.0 U	1.0 U	35	0.30 U	1.0 U	1.8 U	0.076 J	1.1 J	0.70 U	2.0 J	0.85 J	12	0.10 U	0.20 U	2.0 U	22
	MW02042017	4/19/17	1.0 U	1.0 U	44	0.088 J	1.0 U	1.8 U	0.20 U	0.77 J	0.70 U	2.4 J	1.0 U	12	0.10 U	0.20 U	1.1 J	42
	MW02102016	10/27/16	1.0 U	1.0 U	36	0.30 U	1.0 U	1.8 U	0.071 J	2.7	0.24 J	1.9 J	0.54 J	16	0.10 U	0.20 U	1.2 J	27
MW03	MW03042018	4/27/18	1.0 U	0.36 J	9.7	0.30 U	1.0 U	1.8 U	0.11 U	1.8 J	0.70 U	40	0.56 J	28	0.10 U	0.20 U	0.96 J	6.7 U
	MW03102017	10/23/17	1.0 U	0.34 J	10	0.30 U	1.0 U	1.8 U	0.11 J	1.8 U	0.70 U	44	0.85 J	28	0.10 U	0.20 U	0.66 J	5.5 J
	MW03042017	4/21/17	1.0 U	0.35 J	9.3	0.30 U	1.0 U	4.5 J	0.11 J	0.71 J	0.70 U	44	0.69 J	27	0.039 J	0.20 U	2.0 U	4.7 J
	MW03102016	11/3/16	0.91 J	0.33 J	9.3	0.30 U	1.0 U	1.8 U	0.13 J	1.5 J	0.70 U	45	1.5 J	26	0.061 J	0.074 J	1.3 J	5.2 J
MW18D	MW18D042018	4/25/18	0.88 J	0.69 J	19	0.093 U	0.58 J	0.95 J	0.42 J	16	1.5 J	550	2.4 J	2.0 U	0.10 U	0.20 U	13	330
	MW18D102017	10/19/17	1.5 U	1.5 J	52	0.30 U	1.0 U	4.4 J	1.3	12	4.7	770	5.3	2.0 U	0.10 U	0.20 U	28	580
	MW18D042017	4/20/17	1.1 J	0.99 J	18	0.30 U	1.0 U	1.8 U	0.70 J	3.9	1.0 J	620 J	4.6	1.1 J	0.10 U	0.20 U	25	470
	MW18D102016	10/28/16	0.78 J	1.2 J	18	0.30 U	1.0 U	1.8 U	0.72 J	3.4	0.34 J	610	3.0 U	2.1 U	0.10 U	0.20 U	23	280
MW18S	Well has been dry since 2011									Well was dry and was not sampled								
MW20	MW20042018	4/30/18	0.74 U	0.33 J	17	0.30 U	1.0 U	13	1.5	12	0.70 U	1800	4.1	88	0.043 J	0.20 U	0.65 J	100
	MW20102017	10/23/17	1.0 U	0.38 J	16	0.30 U	1.0 U	0.78 J	1.3	2.5 U	0.70 U	1500	3.5	82	0.035 J	0.20 U	2.0 U	92
	MW20042017	4/24/17	1.0 U	1.0 U	17 J	0.30 UJ	1.0 U	1.8 U	1.1	4.1 J	0.89 J	1400 J	2.9 J	59	0.10 UJ	0.20 U	2.0 U	79 J
	MW20102016	11/4/16	1.0 U	1.0 U	16	0.30 U	1.0 U	1.8 U	1.4	6	0.70 U	1700	3.5	61	0.10 U	0.20 U	0.65 J	120

Table 5-9: Summary of Dissolved Metals Analytical Results - Method 6020A (µg/L)

			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
			CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS
			7440-36-0	7440-38-2	7440-39-3	7440-41-7	7440-43-9	7440-47-3	7440-48-4	7440-50-8	7439-92-1	7439-96-5	7440-02-0	7782-49-2	7440-22-4	7440-28-0	7440-62-2	7440-66-6
Well Name	Sample Identifier	Sample Date	Screening Value (µg/L) ^a															
			6 ^b	10 ^b	2,000 ^b	4 ^b	5 ^b	50 ^b	50 ^b	1,000 ^b	15 ^b	200 ^b	200 ^b	50 ^b	50 ^b	2 ^b	86 ^c	10,000 ^b
MW22D	MW22D042018	4/27/18	1.0 U	1.0 U	11	0.30 U	1.0 U	1.8 U	0.20 U	1.2 J	0.70 U	140	1.0 J	39	0.1 U	0.2 U	1.2 J	36
	MW22D102017	10/23/17	1.0 U	1.0 U	9.9	0.30 U	1.0 U	1.8 U	0.15 J	1.8 U	0.70 U	130	1.0 J	41	0.10 U	0.20 U	0.88 J	4.6 J
	MW22D042017	4/19/17	1.0 U	0.41 J	11	0.30 U	1.0 U	1.8 U	0.16 J	1.8 U	0.70 U	130	0.77 J	36	0.10 U	0.20 U	1.4 J	8.7 J
	MW22D102016	10/28/16	1.0 U	0.34 J	12	0.30 U	1.0 U	1.8 U	0.21 J	1.3 J	0.70 U	140	1.4 U	42	0.10 U	0.20 U	1.5 J	14 U
MW22S	MW22S042018	4/2018	Well was dry and was not sampled															
	MW22S102017	10/2017	Well was dry and was not sampled															
	MW22S042017	4/1/17	Well was dry and was not sampled															
	MW22S102016	10/2016	Well was dry and was not sampled															
MW23	MW23042018	4/24/18	1.0 U	1.1 J	200	0.30 U	1.0 U	0.69 J	0.31 J	1.8 U	0.70 U	70	2.2 J	2.0 U	0.10 U	0.20 U	2.3 J	2.2 J
	MW23042018FD ^d	4/24/18	1.0 U	1.1 J	210	0.24 J	1.0 U	1.8 U	0.28 J	1.8 U	0.70 U	69	2.2 J	2.0 U	0.10 U	0.20 U	1.9 J	2.1 J
	MW23102017	10/18/17	1.0 U	1.1 J	160	0.30 U	1.0 U	1.8 U	0.64 J	5.2 J	0.18 J	58	1.2 J	2.0 U	0.10 U	0.20 U	2.7 J	2.1 J
	MW23102017FD ^d	10/18/17	0.42 J	1.1 J	160	0.24 J	1.0 U	1.8 U	0.74 J	2.0 J	0.29 J	58	1.3 J	2.0 U	0.035 J	0.076 J	2.7 J	8.0 U
	MW23042017	4/18/17	1.0 U	1.5 J	140 J	0.12 J	1.0 U	0.61 J	0.97 J	2.8 U	0.39 J	72 J	1.8 U	2.0 U	0.085 J	0.20 U	7.6	8.0 U
	DMW23042017 ^d	4/18/17	1.0 U	1.1 J	140 J	0.17 J	1.0 U	0.74 J	0.88 J	2.5 U	0.41 J	68 J	1.7 U	2.0 U	0.042 J	0.20 U	6.6	8.0 U
	MW23102016	10/27/16	1.0 U	1.1 J	180	0.30 U	1.0 U	1.8 U	0.59 J	0.85 J	0.70 U	68	1.4 J	1.5 J	0.10 U	0.20 U	3.8 J	3.5 J
MW24	MW24042018	4/23/18	1.0 U	0.64 J	210	0.30 U	1.0 U	1.8 U	0.20 U	1.8 U	0.70 U	420	1.0 U	2.0 U	0.10 U	0.20 U	0.58 U	8.0 U
	MW24042018FD ^d	4/23/18	1.0 U	0.53 J	210	0.30 U	1.0 U	1.8 U	0.080 J	1.2 J	0.70 U	410	1.0 U	2.0 U	0.10 U	0.20 U	2.0 U	8.0 U
	MW24102017	10/17/17	1.0 U	0.75 J	300	0.30 U	1.0 U	1.8 U	0.062 J	1.8 U	0.70 U	420	1.0 U	2.0 U	0.10 U	0.20 U	2.0 U	8.0 U
	MW24102017FD 01 ^d	10/17/17	1.0 U	0.65 J	290	0.30 U	1.0 U	1.8 U	0.054 J	1.8 U	0.70 U	420	1.0 U	2.0 U	0.10 U	0.20 U	2.0 U	8.0 U
	MW24042017	4/17/17	1.0 U	0.51 J	290 J	0.30 U	1.0 U	1.8 U	0.20 U	1.8 U	0.70 U	450 J	1.0 U	2.0 U	0.10 U	0.20 U	2.0 U	8.0 U
	DMW24042017 ^d	4/17/17	1.0 U	0.49 J	280 J	0.30 U	1.0 U	1.8 U	0.20 U	1.8 U	0.70 U	450 J	1.0 U	2.0 U	0.10 U	0.20 U	2.0 U	8.0 U
	MW24102016	10/26/16	1.0 U	0.73 J	290	0.30 U	1.0 U	1.8 U	0.059 J	1.8 U	0.70 U	430 J	1.0 U	2.0 U	0.10 U	0.20 U	0.70 U	8.0 U
SMW01	DMW24102016 ^d	10/26/16	1.0 U	0.85 J	280	0.25 J	1.0 U	1.8 U	0.13 J	1.8 U	0.70 U	420 J	1.0 U	2.0 U	0.10 U	0.096 U	0.66 U	8.0 U
	SMW01042018	4/26/18	1.0 U	1.8 J	37	0.30 U	1.0 U	1.8 U	0.41 J	1.8 J	0.70 U	190	2.6 J	0.92 U	0.10 U	0.20 U	3.3 J	5.3 U
	SMW01102017	10/20/17	1.0 U	1.5 J	35	0.30 U	1.0 U	1.8 U	0.33 U	2.2	0.70 U	150	0.76 J	2.0 U	0.10 U	0.20 U	2.6 J	4.4 J
	SMW01042017	4/21/17	1.0 U	1.2 J	35	0.30 U	1.0 U	1.8 U	0.19 J	0.87 J	0.70 U	60	2.3 J	1.3 J	0.10 U	0.20 U	1.2 J	8.0 U
TMW01	SMW01102016	11/2/16	1.0 U	1.1 J	34	0.30 U	1.0 U	1.8 U	0.17 J	1.3 J	0.70 U	47	2.4 J	1.2 U	0.10 U	0.20 U	2.8 J	12 J
	TMW01042018	5/4/18	0.43 U	0.85 J	11	0.30 U	1.0 U	0.54 J	0.20 U	3.3	0.70 U	9.4	0.53 J	4.0 J	0.10 U	0.20 U	13	2.1 J
	TMW01102017	10/27/17	1.0 U	0.82 J	13	0.30 U	1.0 U	1.8 U	0.065 J	4.4	0.70 U	7.8	1.0 U	4.6 J	0.10 U	0.20 U	14	2.4 J
	TMW01042017	4/25/17	1.0 U	0.76 J	12	0.30 U	1.0 U	1.8 U	0.20 U	4.4	0.70 U	7.5	1.0 U	4.5 J	0.10 U	0.20 U	13	8.0 U
TMW03	TMW01102016	10/31/16	1.0 U	0.69 J	11	0.30 U	1.0 U	1.8 U	0.060 J	4	0.70 U	8.9	0.48 J	6	0.10 U	0.20 U	13	8.0 U
	TMW03042018	4/30/18	1.0 U	0.49 J	13	0.30 U	1.0 U	1.8 U	0.071 J	2.3	0.70 U	5.7	0.31 J	60	0.10 U	0.20 U	1.8 J	9.8 J
	TMW03102017	10/25/17	1.0 U	0.47 J	13	0.30 U	1.0 U	1.8 U	0.063 J	1.2 J	0.70 U	4.4	1.0 U	57	0.10 U	0.20 U	2.0 U	5.8 J
	TMW03042017	4/24/17	1.0 U	0.57 J	13 J	0.30 UJ	1.0 U	1.8 U	0.086 J	1.3 J	0.70 UJ	4.9 J	0.87 J	57	0.10 UJ	0.20 U	1.8 J	7.1 J
TMW04	TMW03102016	10/31/16	1.0 U	0.49 J	13	0.30 U	1.0 U	1.8 U	0.071 J	1.8 U	0.70 U	4.9	1.3 J	55	0.10 U	0.20 U	2.0 J	8.5 J
	TMW04042018	5/2/18	1.0 U	0.97 J	8.1	0.30 U	1.0 U	2.8 J	0.20 J	1.8 U	0.70 U	0.95 U	1.0 U	85	0.10 U	0.20 U	17	4.0 J
	TMW04102017	10/25/17	1.0 U	0.96 J	7.7	0.30 U	1.0 U	3.9 J	0.20 U	1.8 U	0.70 U	0.95 U	1.0 U	89	0.10 U	0.20 U	15	2.4 J
	TMW04042017	4/24/17	1.0 U	0.88 J	8.3 J	0.30 UJ	1.0 U	1.5 J	0.20 U	1.8 UJ	0.70 UJ	0.95 UJ	1.0 U	87	0.10 UJ	0.20 U	16	2.5 J
TMW04	TMW04102016	11/3/16	1.0 U	1.0 J	7.5	0.30 U	1.0 U	2.6 J	0.20 U	0.83 J	0.70 U	0.31 J	1.0 U	88	0.10 U	0.20 U	16	3.8 J

Table 5-9: Summary of Dissolved Metals Analytical Results - Method 6020A (µg/L)

			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
			CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS
			7440-36-0	7440-38-2	7440-39-3	7440-41-7	7440-43-9	7440-47-3	7440-48-4	7440-50-8	7439-92-1	7439-96-5	7440-02-0	7782-49-2	7440-22-4	7440-28-0	7440-62-2	7440-66-6
Well Name	Sample Identifier	Sample Date	Screening Value (µg/L) ^a															
			6 ^b	10 ^b	2,000 ^b	4 ^b	5 ^b	50 ^b	50 ^b	1,000 ^b	15 ^b	200 ^b	200 ^b	50 ^b	50 ^b	2 ^b	86 ^c	10,000 ^b
TMW06	TMW06042018	4/30/18	1.0 U	0.81 J	15	0.30 U	1.0 U	1.8 U	0.20 U	1.7 J	0.70 U	31	0.80 J	2.2 J	0.10 U	0.20 U	3.4 J	3.0 J
	TMW06102017	10/17/17	1.0 U	0.88 J	15	0.30 U	1.0 U	1.8 U	0.20 U	3.1	0.70 U	33	0.55 J	1.2 J	0.10 U	0.20 U	2.0 J	8.0 U
	TMW06042017	4/20/17	1.0 U	0.91 J	15	0.30 U	1.0 U	1.8 U	0.20 U	2.2	0.70 U	27 J	0.68 J	1.4 J	0.10 U	0.20 U	1.1 J	3.1 U
	TMW06102016	10/31/16	1.0 U	0.84 J	14	0.30 U	1.0 U	1.8 U	0.055 J	1.7 J	0.70 U	30	0.98 J	2.0 U	0.10 U	0.20 U	3.1 J	2.3 J
TMW07	TMW07042018	4/25/18	1.0 U	1.0 U	0.95 U	0.30 U	1.0 U	1.8 U	0.20 U	1.8 U	0.45 U	0.45 U	1.0 U	2.0 U	0.10 U	0.20 U	2.0 U	8.0 U
	TMW07102017	10/19/17	1.0 U	0.42 J	16	0.30 U	1.0 U	1.8 U	0.33 U	1.8 U	0.70 U	280	0.67 J	2.0 U	0.10 U	0.20 U	5.8 J	4.4 J
	TMW07042017	4/20/17	1.0 U	0.87 J	16	0.089 J	1.0 U	1.8 U	0.57 J	0.61 J	0.70 U	370 J	3.6	2.0 U	0.10 U	0.20 U	3.6 J	8.0 U
	TMW07102016	10/27/16	1.0 U	1.6 J	20	0.30 U	1.0 U	1.8 U	0.63 J	0.89 J	0.70 U	380	3.4	1.2 J	0.10 U	0.20 U	2.1 J	13 J
TMW08	TMW08042018	4/27/18	1.0 U	0.44 J	10	0.30 U	1.0 U	1.8 U	0.56 U	2	0.70 U	440	1.5 J	27	0.10 U	0.20 U	0.65 J	7.3 U
	TMW08102017	10/20/17	1.0 U	0.41 J	9.9	0.30 U	1.0 U	1.8 U	0.58 U	2.0	0.70 U	380	1.7 J	35	0.10 U	0.20 U	2.0 U	6.6 J
	TMW08042017	4/21/17	1.0 U	0.35 J	10	0.30 U	1.0 U	1.8 U	0.63 J	1.5 J	0.70 U	390	1.5 J	41	0.10 U	0.20 U	2.0 U	6.2 J
	TMW08102016	11/1/16	1.0 U	0.48 J	11	0.30 U	1.0 U	14 J	0.59 J	3.2	0.70 U	410	2.0 J	42	0.033 J	0.20 U	1.8 J	4.7 J
	DTW08102016 ^d	11/1/16	1.0 U	0.40 J	11	0.30 U	1.0 U	0.59 J	0.60 J	2.4	0.70 U	400	1.3 J	43	0.10 U	0.20 U	1.0 J	5.8 J
TMW10	TMW10042018	4/24/18	1.0 U	0.82 J	16	0.30 U	1.0 U	1.8 U	0.14 J	3.5 U	0.70 U	40	0.74 J	2.0 U	0.10 U	0.20 U	2.8 J	2.0 J
	TMW10102017	10/25/17	1.0 U	0.74 J	15	0.30 U	1.0 U	1.8 U	0.10 J	2.3	0.70 U	42	0.99 J	2.0 U	0.10 U	0.20 U	2.0 U	8.0 U
	TMW10042017	4/21/17	1.0 U	0.66 J	17	0.30 U	1.0 U	1.8 U	0.20 U	1.1 J	0.70 U	6.4	1.9 J	2.0 U	0.10 U	0.20 U	0.78 J	9.2 J
	TMW10102016	11/2/16	1.0 U	0.65 J	22	0.30 U	1.0 U	0.70 J	0.21 J	9.2	0.31 J	48	1.4 J	1.0 U	0.10 U	0.20 U	3.7 J	2.9 J
TMW11	TMW11042018	5/2/18	1.0 U	1.0 U	26	0.30 U	1.0 U	3.8 J	0.20 U	0.57 J	0.70 U	8.1	0.70 J	17	0.10 U	0.20 U	3.4 J	3.3 J
	TMW11102017	10/27/17	1.0 U	0.51 J	28	0.30 U	1.0 U	2.4 J	0.20 U	1.8 U	0.70 U	1.6 U	0.49 J	15	0.10 U	0.20 U	3.4 J	2.5 J
	TMW11042017	4/26/17	1.0 U	0.38 J	22	0.30 U	1.0 U	3.2 J	0.080 J	0.92 J	0.70 U	7.7	1.4 J	14	0.10 U	0.20 U	2.6 J	3.7 J
	TMW11102016	11/3/16	1.0 U	0.36 J	25	0.30 U	1.0 U	1.0 J	0.20 U	0.96 J	0.70 U	1.1 J	1.2 J	14	0.10 U	0.20 U	4.0 J	3.5 J
	DTW11102016 ^d	11/3/16	1.0 U	1.0 U	26	0.30 U	1.0 U	1.2 J	0.20 U	1.8 J	0.70 U	0.84 J	0.63 J	14	0.10 U	0.20 U	4.3 J	5.2 J
TMW13	TMW13042018	5/1/18	1.0 U	1.0 U	18	0.30 U	1.0 U	0.59 J	0.20 U	0.98 J	0.70 U	0.95 U	1.0 U	12	0.10 U	0.20 U	3.1 J	2.1 J
	TMW13102017	10/26/17	1.0 U	1.0 U	17	0.30 U	1.0 U	0.58 J	0.20 U	1.8 U	0.70 U	0.95 U	1.0 U	11	0.10 U	0.20 U	2.7 J	2.6 J
	TMW13042017	4/25/17	1.0 U	1.0 U	18	0.30 U	1.0 U	1.8 U	0.20 U	0.65 J	0.70 U	0.41 J	1.0 U	11	0.10 U	0.20 U	1.9 J	8.0 U
	TMW13102016	11/1/16	1.0 U	1.0 U	18	0.30 U	1.0 U	0.64 J	0.20 U	0.60 J	0.70 U	1.9 J	0.76 J	12	0.10 U	0.20 U	2.5 J	8.0 U
TMW15	TMW15042018	5/3/18	1.0 U	1.0 U	20	0.30 U	1.0 U	0.83 J	0.20 U	1.4 J	0.70 U	0.95 U	1.0 U	12	0.10 U	0.20 U	2.2 J	5.6 J
	TMW15042018FD ^d	5/3/18	1.0 U	1.0 U	22	0.30 U	1.0 U	1.0 J	0.20 U	1.6 J	0.70 U	0.38 J	0.38 J	12	0.10 U	0.20 U	2.3 J	5.9 J
	TMW15102017	10/26/17	1.0 U	1.0 U	24	0.30 U	1.0 U	0.99 J	0.20 U	1.8 U	0.70 U	0.95 U	1.0 U	12	0.10 U	0.20 U	1.9 J	5.7 J
	TMW15102017FD ^d	10/26/17	1.0 U	1.0 U	21	0.30 U	1.0 U	1.2 J	0.20 U	1.8 U	0.70 U	0.95 U	1.0 U	12	0.10 U	0.20 U	1.6 J	4.8 J
	TMW15042017	4/27/17	0.84 J	1.0 U	22	0.30 U	1.0 U	0.93 J	0.20 U	1.8 U	0.70 U	0.74 J	0.70 J	15	0.10 U	0.20 U	1.9 J	5.7 J
	DTW15042017 ^d	4/27/17	1.0 U	1.0 U	22	0.30 U	1.0 U	0.89 J	0.20 U	1.8 U	0.70 U	0.46 J	1.0 U	15	0.10 U	0.20 U	1.7 J	6.7 J
TMW21	TMW15102016	11/2/16	1.0 U	1.0 U	22	0.30 U	1.0 U	0.75 J	0.20 U	1.8 U	0.70 U	0.31 U	0.72 J	13	0.10 U	0.20 U	1.9 J	6.5 J
	TMW21042018	5/1/18	1.0 U	0.81 J	20	0.30 U	0.30 J	1.9 J	0.061 J	2.4	0.70 U	27	0.53 J	3.5 J	0.10 U	0.20 U	2.5 U	8.0 U
	TMW21102017	10/25/17	1.0 U	0.63 J	20	0.30 U	1.0 U	1.8 U	0.058 J	1.8 J	0.70 U	19	1.0 U	3.0 J	0.10 U	0.20 U	2.0 U	4.0 J
	TMW21042017	4/26/17	0.90 J	0.78 J	19	0.10 J	1.0 U	1.8 U	0.087 J	3	0.70 U	32	0.66 J	3.6 J	0.10 U	0.20 U	1.9 J	2.7 J
TMW22	TMW21102016	10/27/16	1.0 U	0.68 J	16	0.30 U	1.0 U	1.8 U	0.088 J	1.7 J	0.70 U	57	0.55 J	3.9 J	0.10 U	0.20 U	2.1 J	4.0 J
	TMW22042018	4/25/18	1.0 U	0.97 J	26	0.30 U	1.0 U	1.7 J	0.21 J	1.6 U	0.22 J	16	1.5 J	2.3 J	0.10 U	0.20 U	5.4 J	4.5 J
	TMW22102017	10/25/17	1.0 U	0.83 J	20	0.30 U	1.0 U	1.8 U	0.080 J	1.4 J	0.70 U	26	0.34 J	1.9 J	0.10 U	0.20 U	4.0 U	8.0 U
	TMW22042017	4/19/17	1.0 U	1.0 J	28	0.10 J	1.0 U	1.5 J	0.25 J	1.6 J	0.70 U	19	2.1 J	3.0 J	0.10 U	0.20 U	5.7 J	2.2 J
	TMW22102016	10/27/16	1.0 U	0.83 J	23	0.30 U	1.0 U	2.3 J	0.13 J	4.4	0.54 J	6.6	2.2 J	4.1 J	0.10 U	0.20 U	5.3 J	11 J

Table 5-9: Summary of Dissolved Metals Analytical Results - Method 6020A (µg/L)

			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
			CAS 7440-36-0	CAS 7440-38-2	CAS 7440-39-3	CAS 7440-41-7	CAS 7440-43-9	CAS 7440-47-3	CAS 7440-48-4	CAS 7440-50-8	CAS 7439-92-1	CAS 7439-96-5	CAS 7440-02-0	CAS 7782-49-2	CAS 7440-22-4	CAS 7440-28-0	CAS 7440-62-2	CAS 7440-66-6
Well Name	Sample Identifier	Sample Date	Screening Value (µg/L) ^a															
			6 ^b	10 ^b	2,000 ^b	4 ^b	5 ^b	50 ^b	50 ^b	1,000 ^b	15 ^b	200 ^b	200 ^b	50 ^b	50 ^b	2 ^b	86 ^c	10,000 ^b
TMW23	TMW23042018	4/25/18	1.0 U	1.1 J	21	0.30 U	1.0 U	1.2 J	0.20 U	1.8 U	0.70 U	0.95 U	0.36 J	2.0 U	0.10 U	0.20 U	2.1 J	8.0 U
	TMW23102017	10/19/17	1.0 U	1.0 J	20	0.30 U	1.0 U	0.80 J	0.20 U	0.80 J	0.70 U	1.5 J	1.0 U	2.0 U	0.10 U	0.20 U	1.5 J	14 J
	TMW23042017	4/20/17	1.0 U	2.5 J	150	0.44 J	1.0 U	8.0 J	2.9	4.8	3.5	180 J	6	1.2 J	0.10 U	0.068 J	13	20
	TMW23102016	10/28/16	1.0 U	1.1 J	19	0.30 U	1.0 U	1.5 J	0.065 J	1.1 J	0.70 U	3.7	1.4 U	2.0 U	0.10 U	0.20 U	2.9 J	8.0 U
TMW24	TMW24042018	4/30/18	1.0 U	0.97 J	38	0.30 U	1.0 U	1.8 U	0.21 J	1.8 U	0.70 U	160	1.1 J	0.88 J	0.10 U	0.20 U	1.3 J	8.0 U
	TMW24102017	10/24/17	1.0 U	0.87 J	36	0.30 U	1.0 U	1.8 U	0.32 J	0.93 J	0.70 U	130	0.91 J	2.0 U	0.10 U	0.20 U	2.0 U	8.0 U
	TMW24042017	4/25/17	1.0 U	0.88 J	39	0.30 U	1.0 U	1.8 U	0.23 J	1.9 J	0.70 U	140	1.1 U	2.0 U	0.10 U	0.20 U	2.0 U	4.9 J
	TMW24102016	11/3/16	1.0 U	1.2 J	39	0.30 U	1.0 U	1.8 U	0.21 J	1.1 J	0.70 U	150	1.6 J	2.0 U	0.10 U	0.20 U	1.7 J	3.1 J
TMW25	TMW25042018	4/30/18	1.0 U	0.45 J	11	0.30 U	1.0 U	3.1 J	0.15 J	0.97 J	0.70 U	170	0.79 J	0.88 J	0.10 U	0.20 U	4.0 J	2.6 J
	TMW25102017	10/25/17	1.0 U	0.58 J	12	0.30 U	1.0 U	1.8 U	0.17 J	1.6 J	0.70 U	200	0.48 J	2.0 U	0.10 U	0.20 U	2.7 U	2.5 J
	TMW25042017	4/27/17	1.0 U	0.65 J	11	0.30 U	1.0 U	1.8 U	0.096 J	1.0 J	0.70 U	140	1.0 J	2.0 U	0.10 U	0.20 U	3.3 J	2.5 J
	TMW25102016	11/1/16	1.0 U	0.64 J	12	0.30 U	1.0 U	5.0 J	0.23 J	1.5 J	0.70 U	220	1.6 J	0.94 J	0.080 J	0.20 U	3.9 J	8.0 U
TMW26	TMW26042018	4/26/18	1.0 U	1.2 J	21	0.30 U	1.0 U	1.8 U	0.27 J	2.6	0.70 U	130	2.1 J	0.76 U	0.10 U	0.20 U	3.4 J	2.6 U
	TMW26042018FD ^d	4/26/18	1.0 U	1.0 J	18	0.30 U	1.0 U	1.8 U	0.29 J	2.7	0.70 U	120	2.2 J	0.81 U	0.10 U	0.20 U	2.8 J	8.7 U
	TMW26102017	10/17/17	1.0 U	0.98 J	24	0.30 U	1.0 U	1.8 U	0.33 J	2.5	0.70 U	110	1.9 J	2.0 U	0.10 U	0.20 U	2.4 U	8.0 U
	TMW26102017FD ^d	10/17/17	1.0 U	1.3 J	24	0.30 U	1.0 U	1.8 U	0.36 J	2.5	0.70 U	110	1.8 J	2.0 U	0.10 U	0.20 U	2.8 U	2.0 J
	TMW26042017	4/20/17	1.0 U	1.2 J	18	0.30 U	1.0 U	1.8 U	0.28 J	2.2	0.70 U	120 J	2.5 J	2.0 U	0.10 U	0.20 U	1.5 J	8.0 U
	DTW26042017 ^d	4/20/17	1.0 U	1.1 J	18	0.30 U	1.0 U	1.8 U	0.28 J	1.9 J	0.70 U	120 J	2.0 J	0.70 J	0.10 U	0.20 U	1.6 J	3.7 U
	TMW26102016	11/1/16	0.83 J	1.3 J	18	0.30 U	1.0 U	1.8 UJ	0.30 J	2.3	0.70 U	110	3	2.0 U	0.036 J	0.20 U	3.4 J	8.0 U
TMW27	TMW27042018	4/27/18	1.0 U	20	130	0.30 U	1.0 U	1.8 U	0.19 J	0.64 J	0.70 U	590	1.1 J	0.91 U	0.10 U	0.20 U	2.0 U	39
	TMW27102017	10/20/17	1.0 U	19	130	0.30 U	1.0 U	1.8 U	0.16 J	1.8 U	0.70 U	550	0.75 J	2.0 U	0.10 U	0.20 U	2.0 U	2.2 J
	TMW27042017	4/21/17	1.0 U	21	120	0.30 U	1.0 U	1.8 U	0.18 J	1.8 U	0.70 U	560	0.75 J	1.3 J	0.10 U	0.20 U	2.0 U	3.2 J
	TMW27102016	11/3/16	1.0 U	21	120	0.30 U	1.0 U	1.8 U	0.18 J	1.8 U	0.70 U	550	1.3 J	2.0 U	0.10 U	0.20 U	2.0 U	6.0 J
TMW28	TMW28042018	4/26/18	1.0 U	1.0 U	51	0.30 U	1.0 U	1.8 U	0.21 J	1.8 U	0.70 U	450	0.93 J	2.0 U	0.10 U	0.20 U	2.0 U	10 U
	TMW28102017	10/20/17	1.0 U	1.0 U	53	0.30 U	1.0 U	1.8 U	0.089 J	1.8 U	0.70 U	410	1.0 U	2.0 U	0.10 U	0.20 U	2.0 U	8.0 U
	TMW28042017	4/24/17	1.0 U	1.0 U	57 J	0.30 UJ	1.0 U	1.8 U	0.31 J	1.8 UJ	0.70 UJ	940 J	1.0 J	2.0 U	0.10 UJ	0.20 U	2.0 U	2.5 J
	TMW28102016	11/3/16	1.0 U	1.0 U	57	0.30 U	1.0 U	1.8 U	0.15 J	1.8 U	0.70 U	430	1.4 J	2.0 U	0.10 U	0.20 U	0.85 J	2.2 J
TMW29	TMW29042018	4/23/18	1.0 U	1.2 J	28	0.30 U	1.0 U	1.8 J	0.22 J	0.82 J	0.36 J	14	0.80 J	22	0.10 U	0.20 U	5.9 J	2.1 J
	TMW29102017	10/20/17	1.0 U	1.1 J	20	0.30 U	1.0 U	0.81 J	0.20 U	0.91 J	0.70 U	1.0 J	0.43 J	19	0.10 U	0.20 U	4.4 J	9.0 J
	TMW29042017	4/20/17	1.0 U	2.3 J	110	0.53 J	1.0 U	7.0 J	2.5	3.6	3.1	130 J	5.5	22 J	0.036 J	0.059 J	13	18 J
	TMW29102016	10/28/16	1.0 U	0.94 J	17	0.30 U	1.0 U	1.8 U	0.20 U	1.8 U	0.70 U	2.6 J	1.0 U	19	0.10 U	0.20 U	4.8 J	8.0 U
TMW31S	TMW31S042018	4/25/18	1.0 U	1.0 U	14	0.30 U	1.0 U	1.2 J	0.20 U	0.66 U	0.70 U	13	1.0 U	9.8	0.10 U	0.20 U	1.8 J	2.2 J
	TMW31S102017	10/25/17	1.0 U	1.0 U	15	0.30 U	1.0 U	0.68 J	0.20 U	0.88 J	0.70 U	15	1.0 U	9.0	0.10 U	0.20 U	2.0 U	8.0 U
	TMW31S042017	4/19/17	1.0 U	1.0 U	21	0.30 U	1.0 U	0.56 J	0.34 J	3.5	0.70 U	150	2.0 J	9	0.10 U	0.20 U	3.0 J	5.4 J
	TMW31S102016	10/27/16	0.99 J	0.34 J	21	0.30 U	1.0 U	1.5 J	0.22 J	2.9	1.0 J	36	1.7 J	10	0.10 U	0.20 U	3.1 J	9.4 J
TMW33	TMW33042018	4/25/18	1.0 U	0.93 J	28	0.20 U	1.0 U	1.1 J	0.38 J	3.8 U	0.56 J	140	2.0 J	2.0 U	0.10 U	0.20 U	4.8 J	4.7 J
	TMW33102017	10/20/17	1.0 U	0.80 J	17	0.30 U	1.0 U	2.0 J	0.20 U	3.6	0.70 U	180	1.4 J	2.0 U	0.10 U	0.20 U	2.7 J	3.5 J
	TMW33042017	4/20/17	1.0 U	0.81 J	20	0.36 J	1.0 U	0.66 J	0.26 J	3.4	0.70 U	130 J	2.7 J	0.86 J	0.042 J	0.070 J	2.0 J	8.0 U
	TMW33102016	10/28/16	1.0 U	0.70 J	18	0.30 U	1.0 U	0.61 J	0.18 J	3	0.70 U	160	2.8 U	2.0 U	0.10 U	0.20 U	4.0 J	8.0 U

Table 5-9: Summary of Dissolved Metals Analytical Results - Method 6020A (µg/L)

			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
			CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS
			7440-36-0	7440-38-2	7440-39-3	7440-41-7	7440-43-9	7440-47-3	7440-48-4	7440-50-8	7439-92-1	7439-96-5	7440-02-0	7782-49-2	7440-22-4	7440-28-0	7440-62-2	7440-66-6
Well Name	Sample Identifier	Sample Date	Screening Value (µg/L) ^a															
			6 ^b	10 ^b	2,000 ^b	4 ^b	5 ^b	50 ^b	50 ^b	1,000 ^b	15 ^b	200 ^b	200 ^b	50 ^b	50 ^b	2 ^b	86 ^c	10,000 ^b
TMW34	TMW34042018	4/27/18	1.0 U	0.51 J	35 J	0.13 J	1.0 U	1.2 J	0.6 J	1.9 J	0.64 J	160 J	1.4 J	120	0.10 U	0.2 U	3.4 J	5 U
	TMW34042018FD ^d	4/27/18	1.0 U	0.93 J	64 J	0.13 J	1.0 U	2.7 J	1.3	2.5	1.7 J	230 J	2.5 J	120	0.10 U	0.052 J	6.2	8.1 U
	TMW34102017	10/25/17	1.0 U	0.47 J	15	0.30 U	1.0 U	1.8 U	0.23 J	1.7 J	0.70 U	120	1.3 U	120	0.10 U	0.20 U	2.0 U	4.2 J
	TMW34102017FD ^d	10/25/17	1.0 U	0.39 J	17	0.30 U	1.0 U	1.8 U	0.27 J	1.5 J	0.21 J	120	1.0 U	120	0.10 U	0.20 U	2.0 U	2.7 J
	TMW34042017	4/24/17	1.0 U	0.33 J	14 J	0.30 UJ	1.0 U	1.8 U	0.14 J	1.8 UJ	0.70 UJ	130 J	0.53 J	130	0.10 UJ	0.20 U	1.1 J	8.0 UJ
	DTW34042017 ^d	4/24/17	1.0 U	1.0 U	12 J	0.30 UJ	1.0 U	1.8 U	0.18 J	1.8 UJ	0.23 J	140 J	0.56 J	130	0.10 UJ	0.20 U	1.0 J	8.0 UJ
	TMW34102016	11/1/16	1.0 U	0.40 J	11	0.30 U	1.0 U	5.9 J	0.14 J	1.2 J	0.70 U	140	1.2 J	120	0.10 U	0.20 U	1.3 J	8.0 U
TMW35	TMW35042018	4/27/18	1.0 U	0.5 J	12	0.30 U	1.0 U	1.8 U	0.15 U	3.8	0.7 U	150	0.98 J	8.4	0.10 U	0.20 U	1.9 J	4.9 U
	TMW35102017	10/23/17	1.0 U	0.53 J	11	0.30 U	1.0 U	1.8 U	0.20 J	1.8 U	0.70 U	150	0.65 J	10	0.10 U	0.20 U	1.5 J	8.0 U
	TMW35042017	4/24/17	1.0 U	0.44 J	12 J	0.30 UJ	1.0 U	1.8 U	0.18 J	1.6 J	0.70 UJ	160 J	1.4 J	15	0.10 UJ	0.20 U	1.8 J	2.5 J
	TMW35102016	10/31/16	1.0 U	0.50 J	12	0.30 U	1.0 U	1.8 U	0.19 J	1.2 J	0.70 U	150	1.0 J	16	0.10 U	0.20 U	2.1 J	2.0 J
	DTW35102016 ^d	10/31/16	1.0 U	0.51 J	12	0.30 U	1.0 U	1.8 U	0.18 J	1.7 J	0.70 U	150	1.0 J	16	0.10 U	0.20 U	2.0 J	9.6 J
TMW39S	TMW39S042018	4/25/18	1.0 U	0.40 J	36	0.22 J	1.0 U	2.8 J	0.52 J	2.7 U	0.75 J	43	1.9 J	11	0.10 U	0.20 U	5.9 J	3.9 J
	TMW39S102017	10/18/17	1.0 U	0.41 J	15	0.30 U	1.0 U	1.6 J	0.054 J	1.1 J	0.70 U	3.4 J	0.48 J	12	0.10 U	0.20 U	2.0 J	8.0 U
	TMW39S042017	4/19/17	1.0 U	0.49 J	16	0.30 U	1.0 U	2.0 J	0.057 J	0.92 J	0.70 U	2.3 J	0.87 J	14	0.10 U	0.20 U	3.6 J	8.0 U
	TMW39S102016	10/27/16	0.40 J	0.50 J	18	0.30 U	1.0 U	1.8 J	0.13 J	3.5	1.3 J	7.1	1.4 J	11	0.10 U	0.20 U	4.0 J	8.2 J
TMW40S	TMW40S042018	4/27/18	1.0 U	9.7	120	0.83 J	1.0 U	5.3 J	1.8	2.9	7.8	150	3.9	74	0.10 U	0.20 U	46	57
	TMW40S102017	10/26/17	1.0 U	9.7	38	0.30 U	1.0 U	1.7 J	0.39 J	1.8 J	1.1 J	28	1.7 J	68	0.10 U	0.20 U	36	9.9 J
	TMW40S042017	4/24/17	1.2 J	10	27	0.084 J	1.0 U	0.58 J	0.11 J	1.1 J	0.70 U	15	1.1 U	63	0.10 U	0.052 J	35	2.7 J
	TMW40S102016	10/2016	Well was dry and was not sampled															
TMW41	TMW41042018	4/25/18	1.0 U	0.43 J	11	0.30 U	1.0 U	0.74 J	0.20 U	1.1 U	0.70 U	2.0 U	0.40 J	2.0 U	0.10 U	0.20 U	6.7	5.0 J
	TMW41102017	10/25/17	1.0 U	0.49 J	11	0.30 U	1.0 U	0.69 J	0.20 U	0.74 J	0.70 U	0.83 J	1.0 U	2.0 U	0.10 U	0.20 U	5.6 J	8.0 U
	TMW41042017	4/19/17	1.0 U	0.62 J	11	0.30 U	1.0 U	1.2 J	0.20 U	0.56 J	0.70 U	0.95 U	0.49 J	0.97 J	0.10 U	0.20 U	6.8	8.0 U
	TMW41102016	10/27/16	1.0 U	0.43 J	10	0.30 U	1.0 U	2.1 J	0.20 U	1.4 J	0.68 J	0.64 J	0.88 J	1.9 J	0.10 U	0.20 U	6.4	4.2 J
TMW43	TMW43042018	5/2/18	1.0 U	1.0 U	20	0.30 U	1.0 U	1.1 J	0.085 J	1.8 U	0.70 U	50	0.49 J	6.5	0.10 U	0.20 U	1.9 J	8.0 U
	TMW43042018FD ^d	5/2/18	1.0 U	1.0 U	19	0.16 U	1.0 U	1.6 J	0.13 J	1.8 U	0.70 U	50	0.46 J	6.5	0.10 U	0.20 U	1.8 J	8.0 U
	TMW43102017	10/24/17	1.0 U	1.0 U	17	0.30 U	1.0 U	1.8 U	0.078 J	0.76 J	0.70 U	47	0.69 J	6.8	0.10 U	0.20 U	2.0 U	8.0 U
	TMW43102017FD ^d	10/24/17	1.0 U	1.0 U	18	0.34 U	1.0 U	1.8 U	0.19 J	1.8 U	0.70 U	45	0.61 J	7.0	0.070 J	0.20 U	2.0 U	8.0 U
	TMW43042017	4/27/17	1.0 U	1.0 U	19	0.30 U	1.0 U	1.8 U	0.088 J	0.57 J	0.70 U	51	0.61 J	7.3	0.10 U	0.20 U	1.6 J	2.9 J
	DTW43042017 ^d	4/27/17	1.0 U	1.0 U	18	0.30 U	1.0 U	1.8 U	0.10 J	1.8 U	0.70 U	49	0.32 J	6	0.10 U	0.20 U	1.5 J	8.0 U
	TMW43102016	11/3/16	1.0 U	1.0 U	20	0.30 U	1.0 U	1.8 U	0.089 J	0.85 J	0.70 U	51	0.34 J	6.7	0.10 U	0.20 U	1.8 J	3.0 J
	DTW43102016 ^d	11/3/16	1.0 U	1.0 U	19	0.30 U	1.0 U	1.8 U	0.11 J	1.1 J	0.70 U	50	0.44 J	6.7	0.10 U	0.20 U	1.7 J	3.8 J
TMW44	TMW44042018	4/25/18	1.0 U	0.93 J	22	0.30 U	1.0 U	0.53 J	0.26 J	1.8 U	0.34 J	27	0.67 J	2.0 J	0.10U	0.20 U	4.2 J	3.0 J
	TMW44102017	10/25/17	1.0 U	0.74 J	16	0.30 U	1.0 U	1.8 U	0.20 U	0.82 J	0.70 U	5.5	1.0 U	3.4 U	0.10 U	0.20 U	2.9 U	8.0 U
	TMW44042017	4/19/17	1.0 U	0.68 J	16	0.30 U	1.0 U	1.8 U	0.20 U	0.80 J	0.70 U	5.8	0.31 J	2.0 J	0.10 U	0.20 U	3.6 J	8.0 U
	TMW44102016	10/27/16	1.0 U	0.81 J	17	0.30 U	1.0 U	1.8 U	0.064 J	2.9	0.35 J	3.8	1.4 J	2.9 J	0.10 U	0.20 U	4.2 J	5.9 J
TMW45	TMW45042018	5/2/18	1.0 U	0.98 J	71	0.30 U	1.0 U	1.8 U	0.074 J	5	0.70 U	15	1.1 J	0.93 J	0.10 U	0.20 U	4.3 J	6.0 J
	TMW45102017	10/27/17	1.0 U	0.77 J	70	0.30 U	1.0 U	1.8 U	0.20 U	1.6 J	0.70 U	20	1.0 J	0.96 J	0.10 U	0.20 U	3.7 J	8.0 U
	TMW45042017	4/28/17	1.0 U	0.96 J	65	0.30 U	1.0 U	1.8 U	0.060 J	1.6 J	0.36 J	12	1.1 J	0.85 U	0.10 U	0.20 U	3.8 J	2.0 J
	TMW45102016	11/4/16	1.0 U	0.85 J	68	0.30 U	1.0 U	0.88 J	0.057 J	1.8 J	0.70 U	17	1.7 J	0.92 J	0.10 U	0.20 U	4.2 J	8.0 U
	DTW45102016 ^d	11/4/16	1.0 U	0.98 J	70	0.30 U	1.0 U	1.8 U	0.20 U	1.7 J	0.70 U	18	1.2 J	1.0 J	0.10 U	0.20 U	4.2 J	8.0 U

Table 5-9: Summary of Dissolved Metals Analytical Results - Method 6020A (µg/L)

			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
			CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS
			7440-36-0	7440-38-2	7440-39-3	7440-41-7	7440-43-9	7440-47-3	7440-48-4	7440-50-8	7439-92-1	7439-96-5	7440-02-0	7782-49-2	7440-22-4	7440-28-0	7440-62-2	7440-66-6
Well Name	Sample Identifier	Sample Date	Screening Value (µg/L) ^a															
			6 ^b	10 ^b	2,000 ^b	4 ^b	5 ^b	50 ^b	50 ^b	1,000 ^b	15 ^b	200 ^b	200 ^b	50 ^b	50 ^b	2 ^b	86 ^c	10,000 ^b
TMW46	TMW46042018	4/25/18	1.0 U	0.34 J	9.6	0.30 U	1.0 U	1.8 U	0.20 U	0.71 U	0.70 U	0.46 U	1.0 U	110	0.10 U	0.20 U	2.7 J	8.0 U
	TMW46102017	10/25/17	1.0 U	0.49 J	13	0.30 U	1.0 U	1.8 U	0.16 J	1.2 J	0.18 J	5.4	1.0 U	120	0.10 U	0.20 U	2.0 U	2.4 J
	TMW46042017	4/20/17	1.0 U	0.38 J	11	0.30 U	1.0 U	1.8 U	0.058 J	1.2 J	0.70 U	1.3 UJ	1.0 U	130 J	0.10 U	0.20 U	1.0 J	8.0 U
	TMW46102016	10/28/16	1.0 U	1.0 U	9.4	0.30 U	1.0 U	1.8 U	0.065 J	1.8 U	0.70 U	0.85 J	0.79 U	120	0.10 U	0.20 U	2.7 J	8.0 U
TMW47	TMW47042018	5/3/18	1.0 U	0.34 J	14	0.30 U	1.0 U	1.8 U	0.20 U	1.8 U	0.70 U	40	1.0 U	2.0 U	0.10 U	0.20 U	2.0 U	8.0 U
	TMW47102017	10/26/17	1.0 U	0.39 J	13	0.30 U	1.0 U	1.8 U	0.057 J	2.6 U	0.70 U	38	1.0 U	0.71 J	0.10 U	0.20 U	2.0 U	2.3 J
	TMW47042017	4/25/17	1.0 U	0.37 J	14	0.092 J	1.0 U	1.8 U	0.076 J	1.8 U	0.70 U	40	1.0 U	2.0 U	0.10 U	0.20 U	2.0 U	8.0 U
	TMW47102016	11/4/16	1.0 U	0.65 J	13	0.16 J	1.0 U	0.68 J	0.17 J	0.67 J	0.70 U	40	0.68 J	1.6 J	0.037 J	0.13 J	0.84 J	2.1 J
Northern Bedrock Groundwater Zone																		
BGMW07	BGMW07042018	4/26/18	1.4 J	1.0 U	98	0.30 U	1.0 U	1.2 J	2.3	1.8 U	0.70 U	1500	16	1.1 U	0.10 U	0.20 U	2.0 U	4.1 U
BGMW08	BGMW08042018	04/2018																
BGMW09	BGMW09042018	5/1/18	1.0 U	10	670	5.5	1.0 U	140	34	28	27	1400	84	2.0 U	0.046 J	0.35 J	98	250
BGMW10	BGMW10042018	4/27/18	1.3 J	1.0 U	10	0.30 U	1.0 U	2.0 J	0.067 J	0.70 J	0.70 U	19 U	1.3 J	1.4 U	0.10 U	0.20 U	2.0 U	2.2 U
TMW02	TMW02042018	5/2/18	1.0 U	1.1 J	9	0.30 U	1.0 U	1.8 U	0.20 U	2.5 U	0.70 U	1.0 J	1.0 U	84	0.10 U	2.0 U	48	4.4 J
	TMW02102017	10/24/17	1.0 U	1.1 J	7.7	0.30 U	1.0 U	1.8 U	0.20 U	1.8 J	0.70 U	0.48 J	1.0 U	75	0.10 U	0.20 U	38	34
	TMW02042017	4/24/17	1.0 U	1.1 J	8.4 J	0.30 UJ	1.0 U	1.8 U	0.20 U	1.8 UJ	0.70 UJ	0.95 UJ	1.0 U	82	0.10 UJ	0.20 U	43	2.4 J
	TMW02102016	11/1/16	1.0 U	1.1 J	8.6	0.30 U	1.0 U	0.66 J	0.054 J	0.63 J	0.70 U	0.89 J	0.61 J	81	0.10 U	0.20 U	42	8.0 U
TMW14A	TMW14A042018	5/3/18	1.0 U	0.40 J	16	0.30 U	1.0 U	1.8 U	0.20 U	1.1 J	0.70 U	11	1.0 J	2.0 U	0.10 U	0.20 U	2.0 U	8.0 U
	TMW14A102017	10/26/17	1.0 U	0.52 J	19	0.30 U	1.0 U	1.8 U	0.20 U	1.8 U	0.70 U	9.7	1.0 U	2.0 U	0.10 U	0.20 U	2.0 U	8.0 U
	TMW14A042017	4/27/17	1.0 U	0.64 J	17	0.30 U	1.0 U	1.8 U	0.20 U	1.8 U	0.70 U	11	0.80 J	2.0 U	0.10 U	0.20 U	2.0 U	5.0 J
	TMW14A102016	11/3/16	1.0 U	0.54 J	17	0.30 U	1.0 U	1.8 U	0.064 J	0.65 J	0.70 U	10	1.1 J	2.0 U	0.10 U	0.20 U	2.0 U	6.3 J
TMW16	TMW16042018	4/25/18	1.0 U	0.33 J	33	0.30 U	1.0 U	4.8 J	0.90 J	1.7 U	0.54 J	23	21	2.0 U	0.19 J	0.20 U	14	11 J
	TMW16102017	10/20/17	1.0 U	1.0 U	13	0.30 U	1.0 U	0.59 J	0.20 J	1.8 U	0.70 U	5.4	9.9	2.0 U	0.10 U	0.20 U	7.7	2.7 J
	TMW16042017	4/20/17	1.0 U	0.38 J	16	0.30 U	1.0 U	1.8 U	0.28 J	1.8 U	0.70 U	8.7 J	13	0.97 J	0.041 J	0.20 U	17	8.0 U
	TMW16102016	10/28/16	0.77 J	1.0 U	14	0.30 U	1.0 U	1.8 U	0.14 J	1.8 U	0.70 U	2.6 J	5.2	2.0 U	0.10 U	0.058 J	12	8.0 U
TMW17	TMW17042018	5/3/18	1.0 U	1.0 U	15	0.30 U	0.46 J	1.8 U	0.20 U	1.8 U	0.70 U	10	0.30 J	2.0 U	0.10 U	0.20 U	2.0 U	8.0 U
	TMW17102017	10/26/17	1.0 U	1.0 U	13	0.30 U	1.0 U	1.8 U	0.20 U	1.8 U	0.70 U	8.4	1.0 U	2.0 U	0.10 U	0.20 U	2.0 U	2.7 J
	TMW17042017	4/27/17	1.0 U	1.0 U	14	0.30 U	1.0 U	1.8 U	0.20 U	1.8 U	0.70 U	8.5	0.65 J	2.0 U	0.10 U	0.20 U	2.0 U	8.0 U
	TMW17102016	11/4/16	1.0 U	1.0 U	14	0.30 U	0.58 J	1.8 U	0.20 U	1.8 U	0.70 U	9.8	0.54 J	2.0 U	0.10 U	0.20 U	2.0 U	8.0 U
TMW18	TMW18042018	4/25/18	1.0 U	0.73 J	14	0.089 U	1.0 U	1.8 U	0.20 U	0.85 U	0.31 J	2.9 J	0.76 J	2.0 U	0.10 U	0.20 U	9.9	2.2 J
	TMW18102017	10/19/17	1.0 U	2.8 J	14	0.30 U	1.0 U	1.5 J	0.20 U	1.8 U	0.34 J	6.2	1.0 U	2.0 U	0.10 U	0.20 U	21	6.8 J
	TMW18042017	4/20/17	1.0 U	1.5 J	15	0.30 U	1.0 U	0.76 J	0.20 U	1.8 U	0.42 J	5.7 J	0.40 J	1.2 J	0.10 U	0.20 U	17	2.2 U
	TMW18102016	10/28/16	1.0 U	0.64 J	13	0.30 U	1.0 U	1.8 U	0.20 U	1.8 U	0.70 U	5	1.0 U	0.93 U	0.10 U	0.20 U	8.3	8.0 U
TMW19	TMW19042018	4/25/18	1.0 U	1.0 U	7	0.30 U	1.0 U	1.8 U	0.14 J	0.56 U	0.23 J	18	2.2 J	2.0 U	0.10 U	0.20 U	6.3	3.8 J
	TMW19102017	10/19/17	1.0 U	1.0 U	7.2	0.30 U	1.0 U	1.8 U	0.20 U	1.8 U	0.70 U	17	0.31 J	2.0 U	0.10 U	0.20 U	6.6	2.7 J
	TMW19042017	4/20/17	1.0 U	1.0 U	7.6	0.30 U	1.0 U	1.8 U	0.084 J	0.83 J	0.19 J	19 J	2.4 J	0.93 J	0.10 U	0.20 U	5.7 J	8.0 U
	TMW19102016	10/28/16	1.0 U	1.0 U	7.2	0.30 U	1.0 U	1.8 U	0.10 J	1.8 U	0.70 U	13	2.3 U	2.0 U	0.10 U	0.20 U	8.8	8.3 U
	DTW19102016 ^d	10/28/16	1.0 U	1.0 U	7.9	0.30 U	1.0 U	1.8 U	0.13 J	1.8 U	0.24 J	14	2.5 U	2.0 U	0.10 U	0.20 U	8.9	9.4 U

Table 5-9: Summary of Dissolved Metals Analytical Results - Method 6020A (µg/L)

			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
			CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS
			7440-36-0	7440-38-2	7440-39-3	7440-41-7	7440-43-9	7440-47-3	7440-48-4	7440-50-8	7439-92-1	7439-96-5	7440-02-0	7782-49-2	7440-22-4	7440-28-0	7440-62-2	7440-66-6
Well Name	Sample Identifier	Sample Date	Screening Value (µg/L) ^a															
			6 ^b	10 ^b	2,000 ^b	4 ^b	5 ^b	50 ^b	50 ^b	1,000 ^b	15 ^b	200 ^b	200 ^b	50 ^b	50 ^b	2 ^b	86 ^c	10,000 ^b
TMW30	TMW30042018	4/26/18	1.0 U	0.73 J	11	0.30 U	1.0 U	0.55 J	0.055 J	0.89 J	0.70 U	2.0 U	0.41 J	7.9	0.10 U	0.20 U	13	3.5 U
	TMW30102017	10/25/17	1.0 U	0.78 J	8.8	0.30 U	1.0 U	1.8 U	0.20 U	1.3 J	0.70 U	0.52 J	1.0 U	8.0	0.10 U	0.20 U	12	8.0 U
	TMW30042017	4/19/17	1.0 U	0.78 J	9.3	0.30 U	1.0 U	1.8 U	0.066 J	0.70 J	0.70 U	1.3 U	0.69 J	7	0.10 U	0.20 U	13	2.2 J
	TMW30102016	10/26/16	1.0 U	0.67 J	9.6	0.30 U	1.0 U	1.8 U	0.17 J	2.5 J	0.34 J	15 J	2.0 U	6.9	0.10 U	0.20 U	9.3	12 U
TMW31D	TMW31D042018	5/2/18	1.0 U	0.47 J	9	0.30 U	1.0 U	1.7 J	0.055 J	0.75 J	0.70 U	3.3 J	1.0 U	8.2	0.10 U	0.20 U	7.4	16 J
	TMW31D042018FD ^d	5/2/18	1.0 U	0.43 J	9	0.30 U	1.0 U	0.68 J	0.062 J	1.8 U	0.70 U	3.6	1.0 U	8.2	0.10 U	0.20 U	7.3	16 J
	TMW31D102017	10/26/17	1.0 U	0.60 J	8.3	0.30 U	1.0 U	1.8 U	0.082 J	1.8 U	0.70 U	2.7 J	1.0 U	8.4	0.10 U	0.20 U	6.7	17 J
	TMW31D102017FD ^d	10/26/17	1.0 U	0.34 J	8.7	0.081 J	1.0 U	1.8 U	0.054 J	1.8 U	0.70 U	2.9 J	1.0 U	8.0	0.10 U	0.20 U	6.8	18 J
	TMW31D042017	4/27/17	1.0 U	0.42 J	9	0.30 U	1.0 U	1.8 U	0.20 U	0.67 J	0.70 U	2.9 J	0.44 J	8.1	0.10 U	0.20 U	6.8	16 J
	DTW31D042017 ^d	4/27/17	1.0 U	0.51 J	8.8	0.30 U	1.0 U	1.8 U	0.058 J	0.78 J	0.70 U	3.5	0.63 J	8.1	0.10 U	0.20 U	6.8	16 J
	TMW31D102016	10/31/16	1.0 U	0.37 J	8.7	0.30 U	1.0 U	1.8 U	0.20 U	1.8 U	0.70 U	2.1 J	0.40 J	8.6	0.10 U	0.20 U	6.6	16 J
	DTW31D102016 ^d	10/31/16	1.0 U	0.46 J	8.7	0.30 U	1.0 U	1.8 U	0.20 U	1.8 U	0.70 U	2.1 J	0.31 J	8.3	0.10 U	0.20 U	6.8	15 J
TMW32	TMW32042018	5/1/18	1.0 U	0.63 J	8.4	0.30 U	1.0 U	1.8 U	0.20 U	1.8 U	0.70 U	25	1.0 U	4.3 J	0.10 U	0.20 U	4.1 J	2.5 J
	TMW32102017	10/20/17	1.0 U	0.92 J	8.0	0.30 U	1.0 U	1.8 U	0.20 U	1.8 U	0.70 U	24	0.42 J	4.0 J	0.10 U	0.20 U	2.7 J	2.8 J
	TMW32042017	4/27/17	1.0 U	1.4 J	7.3	0.30 U	1.0 U	1.8 U	0.20 U	1.8 U	0.70 U	26	0.31 J	4.0 U	0.10 U	0.20 U	2.0 J	3.4 J
	TMW32102016	11/2/16	0.50 J	1.6 J	7.1	0.30 U	1.0 U	1.8 U	0.061 J	1.8 U	0.70 U	26	0.56 J	3.7 U	0.10 U	0.20 U	2.1 J	2.2 J
TMW36	TMW36042018	4/25/18	1.0 U	1.0 U	6.2	0.30 U	1.0 U	0.60 J	0.13 J	1.0 U	0.20 J	13	4.2	2.0 U	0.10 U	0.20 U	1.6 J	4.1 J
	TMW36102017	10/19/17	1.0 U	1.0 U	6.7	0.30 U	1.0 U	1.8 J	0.20 U	1.8 U	0.70 U	15	3.4	2.0 U	0.10 U	0.20 U	0.77 J	3.8 J
	TMW36042017	4/20/17	1.0 U	1.0 U	7.7	0.30 U	1.0 U	0.68 J	0.14 J	1.8 U	0.25 J	15 J	4.5	0.82 J	0.037 J	0.10 J	2.0 U	8.0 U
	TMW36102016	10/27/16	1.0 U	1.0 U	6.7	0.30 U	1.0 U	1.8 U	0.10 J	0.89 J	0.70 U	12	3.2	1.4 J	0.10 U	0.20 U	2.8 J	6.2 J
TMW37	TMW37042018	4/25/18	1.0 U	0.38 J	11	0.30 U	1.0 U	2.3 J	0.19 J	1.6 U	0.46 J	5.6	10	2.0 U	0.10 U	0.20 U	5.8 J	17 J
	TMW37102017	10/20/17	1.0 U	0.62 J	9.4	0.30 U	1.0 U	1.8 U	0.20 U	1.8 U	0.70 U	4.8	3.9	2.0 U	0.10 U	0.20 U	9.0	7.5 J
	TMW37042017	4/20/17	1.0 U	1.0 U	9.6	0.30 U	1.0 U	1.8 U	0.091 J	1.8 U	0.70 U	7.6 J	4.2	2.0 U	0.10 U	0.20 U	1.3 J	8.0 U
	TMW37102016	10/27/16	0.47 J	0.44 J	9.1	0.14 J	1.0 U	2.7 J	0.23 J	0.61 J	0.49 J	7.3	8.3	1.6 J	0.034 J	0.11 J	4.3 J	21
TMW38	TMW38042018	5/1/18	1.0 U	0.60 J	13	0.30 U	1.0 U	9.3 J	0.11 J	1.8 U	0.70 U	74	0.41 J	2.0 U	0.10 U	0.20 U	2.0 U	2.0 J
	TMW38102017	10/26/17	1.0 U	0.66 J	11	0.30 U	1.0 U	1.8 U	0.096 J	1.8 U	0.70 U	67	1.0 U	2.0 U	0.10 U	0.20 U	2.0 U	8.0 U
	TMW38042017	4/26/17	1.0 U	0.59 J	13	0.30 U	1.0 U	1.8 U	0.094 J	1.8 U	0.70 U	74	0.54 J	2.0 U	0.10 U	0.20 U	2.0 U	8.0 U
	TMW38102016	11/4/16	1.0 U	0.60 J	14	0.30 U	1.0 U	1.8 U	0.088 J	1.8 U	0.70 U	86	0.81 J	2.0 U	0.10 U	0.20 U	2.0 U	8.0 U
TMW39D	TMW39D042018	5/1/18	1.0 U	1.0 U	8.3	0.30 U	1.0 U	1.8 U	0.20 U	1.8 U	0.70 U	54	1.0 U	2.0 U	0.10 U	0.20 U	0.51 J	8.0 U
	TMW39D102017	10/27/17	1.0 U	1.0 U	7.5	0.30 U	1.0 U	1.8 U	0.055 J	1.8 U	0.70 U	50	1.0 U	2.0 U	0.10 U	0.20 U	2.0 U	8.0 U
	TMW39D042017	4/27/17	1.0 U	1.0 U	7.6	0.30 U	1.0 U	1.8 U	0.20 U	0.70 J	0.70 U	52	0.51 J	2.0 U	0.10 U	0.20 U	2.0 U	3.1 J
	TMW39D102016	10/31/16	1.0 U	1.0 U	9.1	0.30 U	1.0 U	1.8 U	0.20 U	1.8 U	0.70 U	37	0.80 J	3.1 U	0.10 U	0.20 U	2.0 J	2.1 J
TMW40D	TMW40D042018	5/1/18	1.0 U	0.42 J	9.1	0.30 U	1.0 U	1.8 U	0.20 U	1.2 J	0.70 U	54	1.0 U	3.5 J	0.10 U	0.20 U	3.2 J	4.8 J
	TMW40D102017	10/23/17	1.0 U	0.39 J	9.4	0.30 U	1.0 U	1.8 U	0.066 J	1.8 U	0.70 U	50	1.0 U	3.4 J	0.10 U	0.20 U	2.8 J	2.5 J
	TMW40D042017	4/25/17	1.0 U	0.36 J	9.4	0.30 U	1.0 U	1.8 U	0.064 J	0.61 J	0.70 U	48	1.0 U	2.7 J	0.10 U	0.20 U	2.0 J	3.6 J
	TMW40D102016	10/31/16	1.0 U	0.44 J	9.1	0.30 U	1.0 U	1.8 U	0.067 J	1.8 U	0.70 U	50	0.63 J	3.9 U	0.10 U	0.20 U	2.9 J	5.3 J
TMW48	TMW48042018	5/2/18	1.0 U	0.70 J	11	0.30 U	1.0 U	0.86 J	0.20 U	0.91 J	0.70 U	51	1.0 U	7.3	0.10 U	0.20 U	5.1 J	11 J
	TMW48102017	10/27/17	1.0 U	0.50 J	10	0.30 U	1.0 U	1.8 U	0.20 U	1.8 U	0.70 U	52	0.31 J	5.5	0.10 U	0.20 U	3.3 J	9.8 J
	TMW48042017	4/26/17	1.0 U	0.59 J	8.9	0.30 U	1.0 U	1.8 U	0.20 U	0.67 J	0.70 U	45	0.72 J	6.7	0.10 U	0.20 U	4.9 J	8.4 J
	TMW48102016	11/1/16	1.0 U	0.74 J	11	0.30 U	1.0 U	6.5 J	0.082 J	1.9 J	0.70 U	55	1.2 J	6.4	0.10 U	0.20 U	3.7 J	11 J

Table 5-9: Summary of Dissolved Metals Analytical Results - Method 6020A (µg/L)

			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
			CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS
			7440-36-0	7440-38-2	7440-39-3	7440-41-7	7440-43-9	7440-47-3	7440-48-4	7440-50-8	7439-92-1	7439-96-5	7440-02-0	7782-49-2	7440-22-4	7440-28-0	7440-62-2	7440-66-6
Well Name	Sample Identifier	Sample Date	Screening Value (µg/L) ^a															
			6 ^b	10 ^b	2,000 ^b	4 ^b	5 ^b	50 ^b	50 ^b	1,000 ^b	15 ^b	200 ^b	200 ^b	50 ^b	50 ^b	2 ^b	86 ^c	10,000 ^b
TMW49	TMW49042018	5/4/18	1.0 U	0.58 J	11	0.30 U	1.0 U	1.2 J	0.20 U	2.3	0.70 U	11	0.52 J	20	0.10 U	0.20 U	14	8.7 J
	TMW49102017	10/27/17	1.0 U	0.49 J	11	0.30 U	1.0 U	0.84 J	0.057 J	1.1 J	0.70 U	8.8	1.1 J	23	0.043 J	0.20 U	12	3.9 J
	TMW49042017	4/26/17	1.0 U	0.50 J	10	0.30 U	1.0 U	0.99 J	0.064 J	1.6 J	0.70 U	3.5	1.2 J	18	0.059 J	0.20 U	13	13 J
	TMW49102016	11/2/16	1.0 U	0.51 J	11	0.30 U	1.0 U	0.57 J	0.20 U	1.4 J	0.70 U	1.8 J	1.1 J	20	0.10 U	0.20 U	12	12 J

Notes:

^a Mercury is analyzed using EPA Method 7470A, and the remaining metals are analyzed using EPA Method 6010C/6020A.

^b New Mexico Water Quality Control Commission - NMAC 20.6.2.3103.

^c EPA Region 6 regional screening levels. EPA, May 2019. <https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables>

^d Indicates a field duplicate sample.

Bold indicates analyte was positively detected above screening values.

Acronyms and Abbreviations:

µg/L = microgram per liter

CAS = Chemical Abstracts Service (registry number)

CFR = Code of Federal Regulations

EPA = U.S. Environmental Protection Agency

J = (Estimated) The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to nonconformances discovered during data validation.

NE = not established

NMAC = New Mexico Administrative Code

U = (Non-detected) The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).

UJ = (Non-detected estimated) The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.

Table 5-10: Summary of Total Metals Analytical Results - Method 6020A (µg/L)

			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	
			CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS
			7440-36-0	7440-38-2	7440-39-3	7440-41-7	7440-43-9	7440-47-3	7440-48-4	7440-50-8	7439-92-1	7439-96-5	7440-02-0	7782-49-2	7440-22-4	7440-28-0	7440-62-2	7440-66-6	
Well Name	Sample Identifier	Sample Date	Screening Value (µg/L) ^a																
			6 ^b	10 ^b	2,000 ^b	4 ^b	5 ^b	50 ^b	50 ^b	1,000 ^b	15 ^b	200 ^b	200 ^b	50 ^b	50 ^b	2 ^b	86 ^c	10,000 ^b	
Northern Alluvial Groundwater Zone																			
BGMW01	BGMW01042018	4/27/18	0.53 J	1.0 J	45	0.3 U	1.0 U	2.6 J	1.8	4.1	2.2 J	530	3.5	2.0 U	4.5 J	0.056 J	7.8	12 U	
	BGMW01102017	10/23/17	1.0 U	0.62 J	14	0.11 J	1.0 U	1.8 U	0.24 J	1.8 U	0.70 U	160	1.3 J	2.0 U	0.10 U	0.20 U	2.0 U	8.0 U	
	BGMW01042017	4/24/17	0.44 J	0.61 J	16 J	0.30 UJ	1.0 UJ	1.8 U	0.27 J	1.8 U	0.70 UJ	160 J	1.1 J	2.0 U	0.11 J	0.20 U	1.6 J	8.0 U	
	BGMW01102016	11/2/16	1.0 U	0.90 J	16 J	0.30 U	1.0 U	1.8 U	0.28 U	1.8 U	0.70 U	200	1.0 J	2.0 U	0.47 J	0.20 U	2.0 U	8.0 U	
BGMW02	BGMW02042018	4/26/18	1.0 U	0.87 J	16	0.30 U	1.0 U	1.8 U	0.11 J	0.88 J	0.70 U	86	11 J	61	0.10 U	0.20 U	6.4	8.0 UJ	
	BGMW02102017	10/20/17	1.0 U	0.86 J	16	0.30 U	1.0 U	1.8 U	0.22 U	0.74 J	0.70 U	75 J	1.0 U	61	0.10 U	0.20 U	7.0	2.7 J	
	BGMW02042017	4/21/17	1.0 U	0.80 J	16	0.30 U	1.0 U	0.50 J	0.14 J	0.85 J	0.70 U	73 J	0.62 J	62	0.10 U	0.20 U	7	8.0 U	
	BGMW02102016	11/2/16	1.0 U	0.80 J	17 J	0.30 U	1.0 U	0.92 J	0.086 U	1.3 J	0.70 U	82	0.52 J	68	0.10 U	0.20 U	7.4 U	8.0 U	
BGMW03	BGMW03042018	4/24/18	1.0 U	1.9 J	35	0.30 U	1.0 U	0.61 J	0.30 J	2.7 U	0.31 J	59	0.93 J	22	0.10 U	0.20 U	12	2.5 J	
	BGMW03102017	10/19/17	1.0 U	2.0 J	44	0.11 J	1.0 U	2.2 J	0.70 J	4.3	0.99 J	60	1.8 J	28	0.10 U	0.20 U	13	10 J	
	BGMW03042017	4/20/17	0.40 J	1.8 J	61	0.21 J	1.0 U	2.0 J	0.95 J	3	1.5 J	96	1.5 J	21 J	0.034 J	0.063 J	11	6.9 J	
	BGMW03102016	10/28/16	1.0 U	2.6 J	110	0.57 J	1.0 U	4.6 J	2.2	5.5	4.5	190	3.3	29	0.034 J	0.11 J	19	21	
FW31	FW31042018	4/23/18	1.0 U	5.0	30	0.30 U	1.0 U	1.8 U	0.24 J	0.76 J	0.27 J	43	0.56 J	2.0 U	0.10 U	0.20 U	9.5	2.5 J	
	FW31102017	10/18/17	0.63 J	5.6	52	0.15 J	1.0 U	1.1 J	0.61 J	1.3 J	0.83 J	68	1.0 J	2.0 U	0.10 U	0.20 U	9.2	7.1 J	
	FW31042017	4/17/17	1.0 U	7.5	150 J	0.21 J	1.0 U	5.3 J	1.8	4.4	2.0 J	210	3.7	2.0 U	0.10 U	0.082 J	16	21	
	FW31102016	10/26/16	1.0 U	6.5	47	0.30 U	1.0 U	1.5 J	0.40 J	0.86 J	0.49 J	36 J	0.73 J	2.0 U	0.10 UJ	0.20 U	12	6.1 J	
FW35	Well has been dry since 2015		Well was dry and was not sampled																
MW01	MW01042018	4/23/18	1.0 U	1.7 J	90	0.59 J	1.0 U	5.0 J	2.2	3.5	3.3	180	4.4	17	0.10 U	0.063 J	10	36	
	MW01102017	10/24/17	0.61 J	4.8 J	280	1.2	1.0 U	15	7.5	11	11	680	14	14	0.075 J	0.19 J	30	120	
	MW01042017	4/19/17	1.0 U	23	1400	7.5	0.76 J	72	37	61	56	3400 J	71	15	0.28 J	0.77 J	130	710	
	MW01102016	10/27/16	1.0 U	1.2 J	65	0.23 J	1.0 U	3.7 J	1.4	2.4	2.1 J	120	3.3	17	0.10 U	0.20 U	7.8	26	
MW02	MW02042018	4/23/18	1.0 U	2.2 J	180	0.77 J	1.0 U	8.0 J	4.1	4.9	6.4	460	7.7	11	0.038 U	0.12 J	17	130	
	MW02102017	10/24/17	1.0 U	3.6 J	210	0.99 J	1.0 U	11	5.4	6.8	8.5	660	10	12	0.047 J	0.14 J	25	190	
	MW02042017	4/19/17	1.0 U	1.6 J	120	0.46 J	1.0 U	5.0 J	2.1	3.3	3.4	310 J	4	11	0.10 U	0.071 J	11	110	
	MW02102016	10/27/16	1.0 U	1.4 J	120	0.49 J	1.0 U	5.3 J	2.3	2.8	3.6	310	4.6	16	0.10 U	0.058 J	11	81	
MW03	MW03042018	4/27/18	1.0 U	1.0 U	11	0.3 U	1.0 U	1.8 U	0.11 J	0.69 J	0.7 U	43	0.51 J	29	0.1 U	0.2 U	1.3 J	8.0 U	
	MW03102017	10/23/17	1.0 U	0.39 J	9.9	0.30 U	1.0 U	1.8 U	0.095 J	1.8 U	0.70 U	42	1.0 U	27	0.10 U	0.20 U	2.0 U	5.8 J	
	MW03042017	4/21/17	1.0 U	0.41 J	8.4	0.30 U	1.0 U	1.8 U	0.14 J	0.81 J	0.70 U	47 J	0.78 J	26	0.10 U	0.20 U	0.91 J	5.0 J	
	MW03102016	11/3/16	1.0 U	0.42 J	11	0.30 U	1.0 U	1.8 U	0.20 U	2	0.70 U	47	0.81 J	25	0.10 U	0.20 U	1.0 U	4.7 J	
MW18D	MW18D042018	4/25/18	0.93 J	1.1 J	45	0.30 U	0.80 J	3.0 J	1.0	35	4.6	650	3.7	2.0 U	0.11 U	0.093 J	16	450	
	MW18D102017	10/19/17	1.0 U	0.99 J	31	0.30 U	1.0 U	1.8 U	0.52 J	3.7	0.58 J	640	2.6 J	2.0 J	0.10 U	0.20 U	22	400	
	MW18D042017	4/20/17	0.80 J	1.6 J	78	0.58 J	0.31 J	11	2.1	14	5.1	670	9.5	0.99 J	0.15 J	0.13 J	33	490	
	MW18D102016	10/28/16	0.80 J	1.8 J	48	0.13 J	1.0 U	3.0 J	1.6	6.6	5.2	590	4.2	2.0 U	0.089 J	0.20 U	24	420	
MW18S	Well has been dry since 2011		Well was dry and was not sampled																
MW20	MW20042018	4/30/18	0.68 J	1.0 U	16	0.30 U	1.0 U	1.8 U	1.5	2.4	0.70 U	1700	3.5	78	0.045 J	0.20 U	0.74 J	91	
	MW20102017	10/23/17	1.0 U	1.0 U	17	0.30 U	1.0 U	0.70 J	1.2	1.9 J	0.70 U	1400	3.5	70	0.10 U	0.20 U	2.0 U	86	
	MW20042017	4/24/17	1.0 U	0.34 J	17 J	0.30 UJ	1.0 UJ	1.8 U	1.2	1.7 J	0.70 UJ	1400 J	2.9 J	62	0.10 U	0.20 U	0.62 J	83	
	MW20102016	11/4/16	1.0 U	1.0 U	15	0.30 U	1.0 U	1.8 U	1.2	2.1	0.70 U	1300	3	51	0.073 J	0.20 U	2.0 U	95	

Table 5-10: Summary of Total Metals Analytical Results - Method 6020A (µg/L)

			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
			CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS
			7440-36-0	7440-38-2	7440-39-3	7440-41-7	7440-43-9	7440-47-3	7440-48-4	7440-50-8	7439-92-1	7439-96-5	7440-02-0	7782-49-2	7440-22-4	7440-28-0	7440-62-2	7440-66-6
Well Name	Sample Identifier	Sample Date	Screening Value (µg/L) ^a															
			6 ^b	10 ^b	2,000 ^b	4 ^b	5 ^b	50 ^b	50 ^b	1,000 ^b	15 ^b	200 ^b	200 ^b	50 ^b	50 ^b	2 ^b	86 ^c	10,000 ^b
MW22D	MW22D042018	4/27/18	1.0 U	0.33 J	10	0.3 U	1.0 U	1.8 U	0.17 J	0.81 J	0.7 U	140 J	0.78 J	37	0.1 U	0.2 U	1.2 J	31
	MW22D102017	10/23/17	1.0 U	0.36 J	12	0.30 U	1.0 U	1.8 U	0.16 J	0.69 J	0.70 U	130	0.52 J	36	0.10 U	0.20 U	2.0 U	5.0 J
	MW22D042017	4/19/17	1.0 U	0.39 J	12	0.30 U	1.0 U	1.8 U	0.19 J	1.8 U	0.70 U	130 J	0.50 J	38	0.10 U	0.20 U	1.1 J	19 J
	MW22D102016	10/28/16	1.0 U	1.0 U	11	0.30 U	1.0 U	1.8 U	0.21 J	1.8 U	0.70 U	130	0.70 J	41	0.10 U	0.20 U	1.4 J	13 J
MW22S	MS22S042018	4/2018	Well was dry and was not sampled															
	MW22S102017	10/2017	Well was dry and was not sampled															
	MW22S042017	04/2017	Well was dry and was not sampled															
	MW22S102016	10/2016	Well was dry and was not sampled															
MW23	MW23042018	4/24/18	1.0 U	1.3 J	210	0.30 U	1.0 U	1.8 U	0.40 J	1.8 U	0.25 J	76	2.9 J	2.0 U	0.10 U	0.20 U	2.5 U	7.2 J
	MW23042018FD ^d	4/24/18	1.0 U	1.1 J	220	0.30 U	1.0 U	1.8 U	0.37 J	1.8 U	0.70 U	76	2.0 J	2.0 U	0.10 U	0.20 U	2.4 U	8.0 UJ
	MW23102017	10/18/17	1.0 U	1.2 J	170	0.089 J	1.0 U	1.8 U	0.89 J	2.9	0.65 J	67	2.6 J	2.0 U	0.10 U	0.20 U	10	6.7 J
	MW23102017FD ^d	10/18/17	0.45 J	1.0 J	150	0.31 J	1.0 U	0.85 J	1.0	3.2	0.69 J	62	2.7 J	2.0 U	0.054 J	0.086 J	12	3.3 J
	MW23042017	4/18/17	1.0 U	1.2 J	150 J	0.10 J	1.0 U	0.88 J	0.88 J	3.3	0.56 J	71	1.6 J	2.0 U	0.10 U	0.20 U	9.9	3.7 J
	DMW23042017 ^d	4/18/17	1.0 U	1.3 J	140 J	0.16 J	1.0 U	1.0 J	1	3.8	0.68 J	72	1.8 J	2.0 U	0.074 J	0.052 J	13	4.6 J
	MW23102016	10/27/16	1.0 U	1.2 J	170	0.30 U	1.0 U	0.58 J	0.84 J	0.94 J	0.33 J	70	1.4 J	2.0 U	0.038 J	0.20 U	5.0 J	2.4 J
MW24	MW24042018	4/23/18	1.0 U	0.71 J	290	0.30 U	1.0 U	1.8 U	0.095 J	1.8 U	0.70 U	420	1.0 U	2.0 U	0.10 U	0.20 U	2.0 U	8.0 U
	MW24042018FD ^d	4/23/18	1.0 U	0.79 J	290	0.30 U	1.0 U	1.8 U	0.074 J	1.8 U	0.21 J	430	1.0 U	2.0 U	0.10 U	0.20 U	2.0 U	8.0 U
	MW24102017	10/17/17	1.0 U	0.90 J	320	0.30 U	1.0 U	0.55 J	0.20 U	1.8 U	0.70 U	450	0.44 J	2.0 U	0.10 U	0.20 U	2.0 U	8.0 U
	MW24102017FD 01 ^d	10/17/17	1.0 U	0.76 J	310	0.30 U	1.0 U	1.8 U	0.20 U	1.8 U	0.70 U	430	1.0 J	2.0 U	0.10 U	0.20 U	2.0 U	8.0 U
	MW24042017	4/17/17	1.0 U	0.80 J	290 J	0.30 U	1.0 U	1.8 U	0.092 J	1.8 U	0.70 U	450	1.0 U	2.0 U	0.10 U	0.20 U	2.0 U	8.0 U
	DMW24042017 ^d	4/17/17	1.0 U	0.49 J	310 J	0.30 U	1.0 U	1.8 U	0.060 J	1.8 U	0.70 U	470	1.0 U	2.0 U	0.10 U	0.20 U	2.0 U	8.0 U
	MW24102016	10/26/16	1.0 U	0.67 J	300	0.30 U	1.0 U	1.8 U	0.059 J	1.8 U	0.70 U	430 J	1.0 U	2.0 U	0.10 UJ	0.20 U	2.0 U	8.0 U
SMW01	SMW01042018	4/26/2018	0.55 J	1.7 J	44	0.30 U	1.0 U	1.8 U	1.1	1.7 J	0.19 J	730	2.9 J	2.0 U	0.034 J	0.20 U	3.5 J	8.0 U
	SMW01102017	10/20/17	1.0 U	1.4 J	57	0.30 U	1.0 U	0.79 J	1.7	2.0	0.70 U	1200	4.0	2.0 U	0.10 U	0.20 U	3.4 J	16 J
	SMW01042017	4/21/17	1.0 U	1.3 J	41	0.30 U	1.0 U	1.8 U	0.97 J	1.6 J	0.70 U	600 J	2.4 J	2.0 U	0.10 U	0.20 U	3.0 J	5.9 J
	SMW01102016	11/2/16	1.0 U	1.2 J	38 J	0.30 U	1.0 U	2.4 J	0.47 U	1.6 J	0.70 U	240	2.2 J	2.0 U	0.10 U	0.20 U	3.0 U	2.5 J
TMW01	TMW01042018	5/4/18	1.0 U	0.90 J	11	0.30 U	1.0 U	1.8 U	0.20 U	3.9	0.70 U	9.7	1.0 U	4.3 J	0.10 U	0.20 U	13	8.0 U
	TMW01102017	10/27/17	1.0 U	0.76 J	13	0.30 U	1.0 U	0.57 J	0.20 U	10	0.24 J	8.4	1.0 U	4.6 J	0.10 U	0.20 U	13	5.3 J
	TMW01042017	4/25/17	1.0 U	0.65 J	12	0.30 U	1.0 U	1.8 U	0.20 U	4	0.70 U	8.4	1.0 U	5	0.10 U	0.20 U	13	8.0 U
	TMW01102016	10/31/16	1.0 U	0.74 J	12	0.30 U	1.0 U	0.60 J	0.20 U	4.6	0.70 U	8.4	1.0 U	5.3	0.10 U	0.20 U	12	8.0 U
TMW03	TMW03042018	4/30/18	1.0 U	0.40 J	14	0.30 U	1.0 U	1.8 U	0.064 J	0.75 J	0.70 U	5.4	1.0 U	58	0.10 U	0.20 U	2.0 J	8.0 U
	TMW03102017	10/25/17	1.0 U	0.51 J	13	0.30 U	1.0 U	1.8 U	0.20 U	0.67 J	0.70 U	4.4	1.0 U	58	0.10 U	0.20 U	1.2 J	8.1 J
	TMW03042017	4/24/17	1.0 U	0.54 J	12 J	0.13 J	1.0 UJ	1.8 U	0.066 J	1.8 U	0.70 UJ	4.9 J	1.0 U	53	0.10 U	0.20 U	1.8 J	7.2 J
	TMW03042017	10/31/16	0.58 J	0.60 J	13	0.30 U	1.0 U	9.8 J	0.093 J	1.2 J	0.70 U	6.9	0.56 J	53	0.10 U	0.20 U	2.4 J	10 J
TMW04	TMW04042018	5/2/18	1.0 U	0.90 J	7.9	0.30 U	1.0 U	3.1 J	0.20 U	1.8 U	0.70 U	0.95 U	1.0 U	85	0.10 U	0.20 U	18	3.1 J
	TMW04102017	10/25/17	1.0 U	0.97 J	8.1	0.54 U	1.0 U	4.2 J	0.20 U	3.0	0.70 U	0.32 J	1.0 U	85	0.043 J	0.20 U	14	2.3 J
	TMW04042017	4/24/17	1.0 U	1.1 J	8.0 J	0.30 UJ	1.0 UJ	2.0 J	0.20 U	1.8 U	0.70 UJ	0.39 J	1.0 U	85	0.10 U	0.20 U	17	2.9 J
	TMW04102016	11/3/16	1.0 U	1.0 J	8.9	0.30 U	1.0 U	3.3 J	0.20 U	0.96 J	5.9	0.66 J	1.0 U	86	0.10 U	0.20 U	15	3.0 J

Table 5-10: Summary of Total Metals Analytical Results - Method 6020A (µg/L)

			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
			CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS
			7440-36-0	7440-38-2	7440-39-3	7440-41-7	7440-43-9	7440-47-3	7440-48-4	7440-50-8	7439-92-1	7439-96-5	7440-02-0	7782-49-2	7440-22-4	7440-28-0	7440-62-2	7440-66-6
Well Name	Sample Identifier	Sample Date	Screening Value (µg/L) ^a															
			6 ^b	10 ^b	2,000 ^b	4 ^b	5 ^b	50 ^b	50 ^b	1,000 ^b	15 ^b	200 ^b	200 ^b	50 ^b	50 ^b	2 ^b	86 ^c	10,000 ^b
TMW06	TMW06042018	4/30/18	1.0 U	0.97 J	16	0.30 U	1.0 U	1.8 U	0.057 J	1.7 J	0.70 U	35	0.54 J	1.0 J	0.10 U	0.20 U	3.1 J	8.0 U
	TMW06102017	10/17/17	1.0 U	0.93 J	14	0.30 U	1.0 U	1.8 U	0.20 U	4.7	0.70 U	34	0.56 J	1.1 J	0.10 U	0.20 U	2.7 U	8.0 U
	TMW06042017	4/20/17	1.0 U	0.85 J	15	0.30 U	1.0 U	1.8 U	0.20 U	1.9 J	0.70 U	32	0.66 J	1.2 J	0.10 U	0.20 U	2.9 J	2.2 J
	TMW06102016	10/31/16	1.0 U	0.87 J	14	0.30 U	1.0 U	0.62 J	0.080 J	3.2	0.70 U	56	1.1 J	1.2 J	0.18 J	0.20 U	2.8 J	3.2 J
TMW07	TMW07042018	4/25/18	1.8 J	0.92 J	27	0.15 J	1.0 U	3.8 J	0.77 J	2.8 U	0.80 J	410	3.8	2.0 U	0.10 U	0.20 U	13	13 J
	TMW07102017	10/19/17	1.0 U	0.72 J	29	0.30 U	1.0 U	0.81 J	0.48 J	1.2 J	0.46 J	320	1.6 J	1.6 J	0.10 U	0.20 U	7.2	8.1 J
	TMW07042017	4/20/17	0.63 J	0.94 J	18	0.30 U	1.0 U	0.77 J	0.69 J	1.2 J	0.33 J	350	3.4	2.0 U	0.048 J	0.20 U	6.6	6.7 J
	TMW07102016	10/27/16	0.61 J	2.0 J	23	0.30 U	1.0 U	1.8 J	0.77 J	1.8 U	0.70 U	390	4.5	2.0 U	0.10 U	0.20 U	2.6 J	3.0 J
TMW08	TMW08042018	4/27/18	1.0 U	1.0 U	9.3	0.3 U	1.0 U	1.8 U	0.58 J	2	0.7 U	430	1.6 J	27	0.1 U	0.2 U	1.4 J	11 U
	TMW08102017	10/20/17	1.0 U	0.40 J	9.2	0.30 U	1.0 U	1.8 U	0.50 U	1.8 J	0.70 U	370	1.0 U	43	0.10 U	0.20 U	2.0 U	6.7 J
	TMW08042017	4/21/17	1.0 U	0.34 J	10	0.30 U	1.0 U	1.8 U	0.62 J	2.5	0.70 U	400 J	1.6 J	47	0.10 U	0.20 U	1.1 J	6.0 J
	TMW08102016	11/1/16	1.0 U	0.35 J	9.7	0.30 U	1.0 U	1.8 U	0.59 J	1.9 J	0.70 U	340	1.6 J	39	0.10 U	0.20 U	1.5 J	9.8 U
	DTW08102016 ^d	11/1/16	1.0 U	1.0 U	9	0.30 U	1.0 U	1.8 U	0.57 J	1.9 J	0.70 U	340	1.5 J	45	0.10 U	0.20 U	1.9 J	9.8 U
TMW10	TMW10042018	4/24/18	1.0 U	1.6 J	77	0.33 J	1.0 U	3.6 J	1.9	16	2.8 J	1300	5.9	2.0 U	0.078 J	0.066 J	9.0	12 J
	TMW10102017	10/25/17	1.0 U	1.0 J	44	0.30 U	1.0 U	1.5 J	0.91 J	4.5	1.3 J	770	2.5 J	0.73 J	0.10 U	0.20 U	5.1 J	5.9 J
	TMW10042017	4/21/17	0.44 J	1.3 J	66	0.33 J	1.0 U	3.4 J	1.6	3.8	2.9 J	280 J	3.3	2.0 U	0.17 J	0.066 J	8.8	13 J
	TMW10102016	11/2/16	0.51 J	1.4 J	64 J	0.31 J	1.0 U	7.8 J	1.1	63	2.1 J	580	3.7	2.0 U	0.36 J	0.067 J	7.2 U	10 J
TMW11	TMW11042018	5/2/18	1.0 U	0.33 J	27	0.30 U	1.0 U	4.6 J	0.15 J	1.8 U	0.24 J	15	0.95 J	17	0.10 U	0.20 U	4.9 J	4.1 J
	TMW11102017	10/27/17	1.0 U	0.52 J	28	0.30 U	1.0 U	2.7 J	0.075 J	1.8 U	0.70 U	6.1	0.74 J	14	0.10 U	0.20 U	4.1 J	2.6 J
	TMW11042017	4/26/17	1.0 U	0.43 J	28	0.30 U	1.0 U	3.8 J	0.30 J	0.64 J	0.35 J	15	0.98 J	15	0.044 J	0.20 U	3.7 J	4.4 J
	TMW11102016	11/3/16	1.0 U	0.86 J	48	0.30 J	1.0 U	7.2 J	1.9	1.4 J	2.1 J	61	3.6	13	0.098 J	0.056 J	12 U	13 J
	DTW11102016 ^d	11/3/16	1.0 U	1.1 J	60	0.33 J	1.0 U	8.9 J	2.3	2.2	2.9 J	82	5.3	13	0.17 J	0.058 J	14	17 J
TMW13	TMW13042018	5/1/18	1.0 U	1.0 U	18	0.30 U	1.0 U	0.51 J	0.20 U	1.8 U	0.70 U	0.95 U	1.0 U	11	0.10 U	0.20 U	2.6 J	8.0 U
	TMW13102017	10/26/17	1.0 U	1.0 U	17	0.30 U	1.0 U	0.59 J	0.20 U	1.8 U	0.70 U	0.95 U	1.0 U	11	0.10 U	0.20 U	2.5 J	8.0 U
	TMW13042017	4/25/17	1.0 U	1.0 U	18	0.30 U	1.0 U	1.8 U	0.20 U	1.8 U	0.70 U	0.72 J	1.0 U	11	0.10 U	0.20 U	2.5 J	8.0 U
	TMW13102016	11/1/16	1.0 U	1.0 U	16	0.30 U	1.0 U	0.61 J	0.20 U	1.7 J	0.70 U	0.95 U	1.0 U	13	0.10 U	0.20 U	2.7 J	8.0 U
TMW15	TMW15042018	5/3/18	1.0 U	0.33 J	21	0.30 U	1.0 U	0.99 J	0.20 U	1.8 U	0.70 U	0.95 U	1.0 U	12	0.10 U	0.20 U	1.5 J	3.4 J
	TMW15042018FD ^d	5/3/18	1.0 U	1.0 U	21	0.30 U	1.0 U	1.1 J	0.20 U	1.8 U	0.70 U	0.33 J	1.0 U	12	0.10 U	0.20 U	1.6 J	3.7 J
	TMW15102017	10/26/17	1.0 U	0.40 J	21	0.30 U	1.0 U	0.84 J	0.20 U	1.8 U	0.70 U	0.95 U	1.0 U	12	0.10 U	0.20 U	1.7 J	7.3 J
	TMW15102017FD ^d	10/26/17	1.0 U	1.0 U	22	0.30 U	1.0 U	1.1 J	0.20 U	1.8 U	0.70 U	0.95 U	1.0 U	12	0.10 U	0.20 U	1.8 J	5.0 J
	TMW15042017	4/27/17	1.0 U	1.0 U	23	0.30 U	1.0 U	0.96 J	0.20 U	1.8 U	0.70 U	0.37 J	0.60 J	12	0.10 U	0.20 U	2.2 J	5.8 J
	DTW15042017 ^d	4/27/17	1.0 U	1.0 U	21	0.30 U	1.0 U	0.79 J	0.20 U	1.8 U	0.70 U	0.95 U	1.0 U	12	0.10 U	0.20 U	1.8 J	5.4 J
TMW21	TMW15102016	11/2/16	1.0 U	1.0 U	22 J	0.30 U	1.0 U	0.92 J	0.20 U	1.8 U	0.70 U	0.42 J	1.0 U	13	0.10 U	0.20 U	2.0 U	5.6 J
	TMW21042018	5/1/18	1.0 U	4.0 J	240	0.87 J	1.0 U	10	5.7	21	6.8	510	11	3.6 J	0.10 J	0.13 J	24	34
	TMW21102017	10/25/17	0.60 J	3.8 J	200	0.90 J	1.0 U	8.7 J	5.1	20	6.2	410	9.6	3.2 J	0.10 U	0.20 U	20	29
	TMW21042017	4/26/17	1.1 J	5.4	270	1.3	1.0 U	14	7.5	26	9.5	530	14	3.0 J	0.17 J	0.20 J	28	44
	TMW21102016	10/27/16	1.0 U	2.6 J	110	0.57 J	1.0 U	6.1 J	2.7	10	3.5	220	5.5	3.9 J	0.056 J	0.073 J	14	18 J
TMW22	TMW22042018	4/25/18	0.71 J	0.65 J	31	0.20 J	1.0 U	2.8 J	0.28 J	1.8 U	0.29 J	25	2.7 J	2.5 J	0.10 U	0.20 U	5.7 J	5.7 J
	TMW22102017	10/25/17	1.0 U	0.94 J	22	0.30 U	1.0 U	1.8 U	0.20 U	1.0 J	0.70 U	41	0.41 J	1.8 J	0.10 U	0.20 U	4.4 J	8.0 U
	TMW22042017	4/19/17	1.0 U	4.3 J	540	1.5	1.0 U	30	8.9	13	9.2	510 J	22	3.6 J	0.35 J	0.18 J	41	65
	TMW22102016	10/27/16	1.3 J	1.1 J	51	0.14 J	1.0 U	4.2 J	0.52 J	1.7 J	0.52 J	37	2.6 J	4.2 J	0.10 U	0.054 J	7.9	6.1 J

Table 5-10: Summary of Total Metals Analytical Results - Method 6020A (µg/L)

			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
			CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS
			7440-36-0	7440-38-2	7440-39-3	7440-41-7	7440-43-9	7440-47-3	7440-48-4	7440-50-8	7439-92-1	7439-96-5	7440-02-0	7782-49-2	7440-22-4	7440-28-0	7440-62-2	7440-66-6
Well Name	Sample Identifier	Sample Date	Screening Value (µg/L) ^a															
			6 ^b	10 ^b	2,000 ^b	4 ^b	5 ^b	50 ^b	50 ^b	1,000 ^b	15 ^b	200 ^b	200 ^b	50 ^b	50 ^b	2 ^b	86 ^c	10,000 ^b
TMW23	TMW23042018	4/25/18	1.0 U	3.2 J	250	0.58 J	1.0 U	12	4.1	5.8	5.2	290	8.3	0.71 J	0.10 U	0.088 J	19	27
	TMW23102017	10/19/17	1.0 U	2.1 J	130	0.50 J	1.0 U	6.5 J	2.3	3.6	2.8 J	160	5.1	0.97 J	0.10 U	0.20 U	11	16 J
	TMW23042017	4/20/17	0.44 J	1.9 J	140	0.36 J	1.0 U	5.6 J	1.8	3.2	2.3 J	140	4.3	2.0 U	0.10 U	0.061 J	11	15 J
	TMW23102016	10/28/16	1.0 U	1.2 J	41	0.087 J	1.0 U	3.6 J	0.52 J	1.7 J	0.63 J	41	2.0 J	2.0 U	0.10 U	0.20 U	5.7 J	5.9 J
TMW24	TMW24042018	4/30/18	1.0 U	0.81 J	38	0.30 U	1.0 U	1.8 U	0.24 J	1.8 U	0.70 U	160	1.1 J	2.0 U	0.042 J	0.20 U	1.3 J	8.0 U
	TMW24102017	10/24/17	1.0 U	0.70 J	38	0.30 U	1.0 U	1.8 U	0.23 J	1.8 U	0.70 U	130	0.89 J	2.0 U	0.10 U	0.20 U	1.2 J	2.8 J
	TMW24042017	4/25/17	1.0 U	0.97 J	39	0.30 U	1.0 U	1.8 U	0.22 J	1.8 U	0.70 U	150	1.1 J	2.0 U	0.10 U	0.20 U	1.4 J	8.0 U
	TMW24102016	11/3/16	1.0 U	1.2 J	38	0.30 U	1.0 U	1.8 U	0.20 U	0.69 J	0.70 U	150	0.84 J	2.0 U	0.10 U	0.20 U	2.2 U	8.0 U
TMW25	TMW25042018	4/30/18	1.0 U	0.53 J	14	0.30 U	1.0 U	1.8 U	0.70 J	0.87 J	0.70 U	550	1.1 J	2.0 U	0.038 J	0.20 U	4.5 J	8.0 U
	TMW25102017	10/25/17	1.0 U	0.68 J	19	0.30 U	1.0 U	1.8 U	1.3	1.0 J	0.21 J	1200	1.7 J	2.0 U	0.10 U	0.20 U	3.9 J	16 J
	TMW25042017	4/27/17	1.0 U	0.54 J	11	0.30 U	1.0 U	1.8 U	0.23 J	0.83 J	0.70 U	200	0.49 J	2.0 U	0.10 U	0.20 U	3.7 J	3.9 J
	TMW25102016	11/1/16	1.0 U	0.49 J	11	0.30 U	1.0 U	1.8 U	0.36 J	0.98 J	0.70 U	280	0.79 J	2.0 U	0.27 J	0.20 U	3.8 J	8.0 U
TMW26	TMW26042018	4/26/18	1.0 U	1.2 J	22	0.30 U	1.0 U	9.6 J	0.38 J	2.6	0.70 U	120	2.1 J	2.0 U	0.10 U	0.20 U	3.9 J	8.0 U
	TMW26042018FD ^d	4/26/18	1.0 U	1.1 J	20	0.30 U	0.32 J	1.8 U	0.31 J	2.4	0.70 U	120	1.9 J	2.0 U	0.10 U	0.20 U	3.6 J	8.0 U
	TMW26102017	10/17/17	1.0 U	1.4 J	27	0.30 U	1.0 U	1.8 U	0.34 U	2.6	0.70 U	120	2.1 J	2.0 U	0.10 U	0.20 U	3.9 U	8.0 U
	TMW26102017FD ^d	10/17/17	1.0 U	1.3 J	26	0.30 U	1.0 U	1.8 U	0.41 U	2.6	0.70 U	110	1.9 J	2.0 U	0.10 U	0.20 U	3.8 U	8.0 U
	TMW26042017	4/20/17	1.0 U	0.97 J	22	0.30 U	1.0 U	1.8 U	0.33 J	2.4	0.70 U	120	1.9 J	2.0 U	0.10 U	0.20 U	4.4 J	2.2 J
	DTW26042017 ^d	4/20/17	1.0 U	1.2 J	25	0.30 U	1.0 U	1.8 U	0.36 J	2.9	0.70 U	120	2.1 J	2.0 U	0.10 U	0.20 U	4.7 J	2.6 J
TMW27	TMW26102016	11/1/16	0.45 J	1.3 J	27	0.30 U	1.0 U	0.68 J	0.37 J	3.1	0.70 U	110	2.3 J	2.0 U	0.10 U	0.053 J	4.5 J	8.0 U
	TMW27042018	4/26/18	1.0 U	20	120	0.095 J	1.0 U	1.8 U	0.18 J	1.8 U	0.70 U	540	0.59 J	2.0 U	0.10 U	0.20 U	2.0 U	110
	TMW27102017	10/20/17	1.0 U	19	130	0.30 U	1.0 U	1.8 U	0.21 U	1.8 U	0.70 U	560	1.0 U	2.0 U	0.10 U	0.20 U	2.0 U	11 J
	TMW27042017	4/21/17	1.0 U	19	120	0.30 U	1.0 U	1.8 U	0.16 J	1.8 U	0.70 U	580 J	0.71 J	2.0 U	0.10 U	0.20 U	0.51 J	14 J
	TMW27102016	11/3/16	1.0 U	22	120	0.30 U	1.0 U	1.8 U	0.20 U	1.8 U	0.70 U	560	0.60 J	2.0 U	0.10 U	0.20 U	2.0 U	98
	TMW28042018	4/26/18	1.0 U	1.0 U	46	0.30 U	1.0 U	1.8 U	0.15 J	1.8 U	0.70 U	400	0.44 J	2.0 U	0.10 U	0.20 U	0.72 J	59
TMW28	TMW28102017	10/20/17	1.0 U	1.0 U	50	0.30 U	1.0 U	1.8 U	0.20 U	1.8 U	0.70 U	390	1.0 U	2.0 U	0.10 U	0.20 U	2.0 U	11 J
	TMW28042017	4/24/17	1.0 U	1.0 U	50 J	0.30 UJ	1.0 UJ	1.8 U	0.27 J	1.8 U	0.70 UJ	850 J	0.52 J	2.0 U	0.10 U	0.20 U	0.81 J	2.2 J
	TMW28102016	11/3/16	1.0 U	1.0 U	54	0.30 U	1.0 U	3.5 J	0.20 U	1.8 U	0.70 U	410	0.38 J	2.0 U	0.10 U	0.20 U	2.0 U	4.0 J
	TMW29042018	4/23/18	1.0 U	3.3 J	210	0.60 J	1.0 U	12	5.1	6.0	6.5	290	11	23	0.10 U	0.12 J	24	28
TMW29	TMW29102017	10/20/17	1.0 U	5.8	420	1.9 U	1.0 U	23	10	13	13	660	23	22	0.10 U	0.20 U	36	61
	TMW29042017	4/20/17	1.0 U	2.2 J	120	0.40 J	1.0 U	7.0 J	2.7	3.7	3	150	6.4	20 J	0.10 U	0.068 J	14	16 J
	TMW29102016	10/28/16	1.0 U	1.8 J	72	0.26 J	1.0 U	4.7 J	1.6	1.9 J	1.9 J	80	3.9	20	0.10 U	0.20 U	12	12 J
	TMW31S042018	4/25/18	1.0 U	0.34 J	17	0.097 J	1.0 U	1.3 J	0.086 J	1.8 U	0.70 U	32	0.36 J	9.9	0.10 U	0.20 U	2.3 U	2.3 J
TMW31S	TMW31S102017	10/25/17	1.0 U	1.0 U	16	0.30 U	1.0 U	0.74 J	0.063 J	1.8 U	0.70 U	22	1.0 U	9.1	0.10 U	0.20 U	1.1 J	8.0 U
	TMW31S042017	4/19/17	1.0 U	0.82 J	91	0.48 J	1.0 U	7.3 J	2.2	3.8	2.8 J	200 J	5.1	8.1	0.10 U	0.20 U	11	19 J
	TMW31S102016	10/27/16	0.73 J	0.34 J	23	0.30 U	1.0 U	2.0 J	0.32 J	1.8 U	0.35 J	43	0.97 J	11	0.10 U	0.20 U	3.3 J	4.3 J
	TMW33042018	4/25/18	0.40 J	1.3 J	74	0.21 J	1.0 U	5.6 J	2.6	5.8	2.3 J	1100	5.4	2.0 U	0.10 U	0.20 U	11	13 J
TMW33	TMW33102017	10/20/17	1.0 U	0.98 J	50	0.30 U	1.0 U	4.6 J	1.2	4.0	1.2 J	650	3.0	2.0 U	0.10 U	0.20 U	6.2	7.7 J
	TMW33042017	4/20/17	1.0 U	1.1 J	54	0.20 J	1.0 U	11	1.4	4.7	1.5 J	400	8	2.0 U	0.058 J	0.060 J	8.4	6.5 J
	TMW33102016	10/28/16	1.0 U	1.4 J	75	0.23 J	1.0 U	4.5 J	1.7	6	2.5 J	410	5.3	2.0 U	0.10 U	0.053 J	9.4	11 J

Table 5-10: Summary of Total Metals Analytical Results - Method 6020A (µg/L)

			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
			CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS
			7440-36-0	7440-38-2	7440-39-3	7440-41-7	7440-43-9	7440-47-3	7440-48-4	7440-50-8	7439-92-1	7439-96-5	7440-02-0	7782-49-2	7440-22-4	7440-28-0	7440-62-2	7440-66-6
Well Name	Sample Identifier	Sample Date	Screening Value (µg/L) ^a															
			6 ^b	10 ^b	2,000 ^b	4 ^b	5 ^b	50 ^b	50 ^b	1,000 ^b	15 ^b	200 ^b	200 ^b	50 ^b	50 ^b	2 ^b	86 ^c	10,000 ^b
TMW34	TMW34042018	4/27/18	1.0 U	9.5	650	3.7	0.42 J	27	19	22	19	4200	29	120	0.35 J	0.3 J	60	87
	TMW34042018FD ^d	4/27/18	1.0 U	9.2	670	2.8	0.39 J	25	18	21	21	4600	28	120	0.32 J	0.28 J	52	80
	TMW34102017	10/25/17	1.0 U	12	930	3.8	0.52 J	30	26	29	32 J	7300	37	120	0.42 J	0.46 J	67	110 J
	TMW34102017FD ^d	10/25/17	1.0 U	15	1200	4.4	0.61 J	39	33	37	46 J	8300	46	120	0.53 J	0.57 J	84	150 J
	TMW34042017	4/24/17	1.0 U	0.33 J	12 J	0.30 UJ	1.0 UJ	1.8 U	0.23 J	1.8 U	0.29 J	160 J	0.89 J	120	0.10 U	0.20 U	1.4 J	8.0 U
	DTW34042017 ^d	4/24/17	1.0 U	0.33 J	12 J	0.30 UJ	1.0 UJ	1.8 U	0.14 J	1.8 U	0.70 UJ	150 J	0.55 J	120	0.10 U	0.20 U	1.2 J	8.0 U
	TMW34102016	11/1/16	1.0 U	1.0 U	14	0.30 U	1.0 U	1.8 U	0.54 J	1.0 J	0.70 U	300	0.66 J	110	0.23 J	0.20 U	1.5 J	8.0 U
TMW35	TMW35042018	4/27/18	1.0 U	0.43 J	12	0.3 U	1.0 U	1.8 U	0.17 J	1.5 J	0.7 U	160	0.84 J	8.9	0.1 U	0.2 U	1.9 J	8 U
	TMW35102017	10/23/17	1.0 U	0.63 J	13	0.22 J	1.0 U	1.8 U	0.25 J	1.6 J	0.70 U	160	1.0 J	9.8	0.10 U	0.20 U	2.0 U	8.0 U
	TMW35042017	4/24/17	1.0 U	0.57 J	12 J	0.30 UJ	1.0 UJ	1.8 U	0.22 J	1.3 J	0.38 J	170 J	0.94 J	13	0.10 U	0.20 U	2.0 J	8.0 U
	TMW35102016	10/31/16	1.0 U	0.41 J	12	0.30 U	1.0 U	0.60 J	0.18 J	1.3 J	0.70 U	150	0.81 J	15	0.10 U	0.20 U	1.8 J	8.0 U
	DTW35102016 ^d	10/31/16	1.0 U	0.51 J	11	0.30 U	1.0 U	1.8 UJ	0.17 J	1.2 J	0.70 U	150	0.89 J	16	0.10 U	0.20 U	1.8 J	19 J
TMW39S	TMW39S042018	4/25/18	1.0 U	4.0 J	620	1.7	0.27 J	29	12	13	15	1100	26	13	0.12 J	0.19 J	50	63
	TMW39S102017	10/18/17	0.78 J	0.73 J	32	0.15 J	1.0 U	2.6 J	0.48 J	1.5 J	0.86 J	61	1.3 J	12	0.10 U	0.20 U	4.0 J	4.8 J
	TMW39S042017	4/19/17	1.0 U	0.46 J	34	0.30 U	1.0 U	3.8 J	0.59 J	1.6 J	0.67 J	37 J	1.4 J	13	0.10 U	0.20 U	6.2	5.2 J
	TMW39S102016	10/27/16	1.0 U	0.59 J	40	0.10 J	1.0 U	3.6 J	0.58 J	1.0 J	0.86 J	41	1.5 J	12	0.10 U	0.20 U	6.5	5.6 J
TMW40S	TMW40S042018	4/27/18	1.0 U	13	330	2.7	1.0 U	11	4.7	6.9	25	450	11	72	0.063 J	0.095 J	58	170
	TMW40S102017	10/26/17	1.0 U	17	810	5.0	1.0 U	21	10	16	40	980	22	67	0.16 J	0.24 J	70	300
	TMW40S042017	4/24/17	1.0 U	9.5	53	0.30 J	1.0 U	1.8 J	0.61 J	1.4 J	2.1 J	55	1.3 J	61	0.10 U	0.20 U	37	19 J
	TMW40S102016	10/2016	Well was dry and was not sampled															
TMW41	TMW41042018	4/25/18	0.49 J	0.42 J	18	0.10 J	1.0 U	2.1 J	0.24 J	1.8 U	0.40 J	14	0.79 J	0.84 J	0.10 U	0.20 U	7.9	7.9 J
	TMW41102017	10/25/17	1.3 U	0.42 J	12	0.30 U	1.0 U	0.87 J	0.12 J	0.67 J	0.19 J	9.9	1.0 U	0.91 J	0.10 U	0.20 U	5.4 J	8.0 U
	TMW41042017	4/19/17	1.0 U	0.44 J	15	0.12 J	1.0 U	2.1 J	0.22 J	0.86 J	0.21 J	7.8 J	0.44 J	0.94 J	0.10 U	0.20 U	7.9	4.4 J
	TMW41102016	10/27/16	1.0 U	0.49 J	14	0.30 U	1.0 U	2.9 J	0.20 J	1.8 U	0.19 J	6.7	0.68 J	2.4 U	0.10 U	0.20 U	7.9	2.9 J
TMW43	TMW43042018	5/2/18	1.0 U	1.0 U	20	0.30 U	1.0 U	1.8 U	0.081 J	1.8 U	0.70 U	52	0.53 J	6.1	0.10 U	0.20 U	1.9 J	2.4 J
	TMW43042018FD ^d	5/2/18	1.0 U	1.0 U	19	0.097 J	1.0 U	0.94 J	0.096 J	1.8 U	0.70 U	53	0.39 J	6.7	0.10 U	0.20 U	2.0 J	8.0 U
	TMW43102017	10/24/17	1.0 U	1.0 U	19	0.30 U	1.0 U	1.8 U	0.098 J	1.8 U	0.70 U	47	0.51 J	5.7	0.10 U	0.20 U	1.7 J	4.7 J
	TMW43102017FD ^d	10/24/17	1.0 U	1.0 U	18	0.30 U	1.0 U	1.8 U	0.077 J	1.8 U	0.70 U	45	0.52 J	5.5	0.10 U	0.20 U	1.4 J	8.0 U
	TMW43042017	4/27/17	1.0 U	1.0 U	19	0.30 U	1.0 U	1.8 U	0.072 J	1.8 U	0.70 U	47	0.33 J	5.9	0.10 U	0.20 U	1.8 J	8.0 U
	DTW43042017 ^d	4/27/17	1.0 U	1.0 U	20	0.11 J	1.0 U	1.8 U	0.10 J	1.8 U	0.70 U	49	0.46 J	6.6	0.10 U	0.20 U	1.7 J	2.1 J
	TMW43102016	11/3/16	1.0 U	1.0 U	19	0.30 U	1.0 U	0.92 J	0.20 U	1.8 U	0.70 U	55	1.0 U	5.7	0.10 U	0.20 U	2.0 U	2.3 J
TMW44	TMW44042018	4/25/18	1.0 U	1.6 J	72	0.20 J	1.0 U	3.6 J	1.7	2.2 U	2.4 J	220	3.5	3.0 J	0.10 U	0.061 J	10	12 J
	TMW44102017	10/25/17	1.0 U	2.6 J	150	0.63 J	1.0 U	5.8 J	3.9	4.9	6.4	480	5.9	2.5 J	0.10 U	0.15 J	16	29
	TMW44042017	4/19/17	1.0 U	1.4 J	56	0.24 J	1.0 U	3.0 J	1.5	2.8	2.2 J	300 J	2.5 J	2.2 J	0.046 J	0.061 J	8.6	11 J
	TMW44102016	10/27/16	1.0 U	1.7 J	73	0.35 J	1.0 U	3.7 J	1.9	1.9 J	3.6	190	2.8 J	3.4 U	0.10 U	0.074 J	11	15 J
TMW45	TMW45042018	5/2/18	1.0 U	0.99 J	73	0.30 U	1.0 U	1.8 U	0.17 J	1.8 U	0.70 U	130	1.0 J	0.78 J	0.10 U	0.20 U	4.5 J	12 J
	TMW45102017	10/27/17	1.0 U	1.1 J	70	0.30 U	1.0 U	1.8 U	0.083 J	1.6 J	0.70 U	110	0.89 J	0.85 J	0.10 U	0.20 U	3.9 J	8.0 U
	TMW45042017	4/28/17	1.0 U	0.96 J	70	0.30 U	1.0 U	1.8 U	0.29 J	1.6 J	0.18 J	150	1.3 J	0.77 J	0.033 J	0.072 J	4.4 J	8.0 U
	TMW45102016	11/4/16	0.77 J	0.91 J	68	0.30 U	1.0 U	1.8 U	0.20 J	1.7 J	0.36 J	110	1.1 J	0.87 J	0.046 J	0.20 U	4.3 J	8.0 U
	DTW45102016 ^d	11/4/16	1.0 U	0.98 J	66	0.30 U	1.0 U	1.8 U	0.23 J	1.8 J	0.70 U	120	1.1 J	0.83 J	0.058 J	0.20 U	3.9 J	8.0 U

Table 5-10: Summary of Total Metals Analytical Results - Method 6020A (µg/L)

			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
			CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS
			7440-36-0	7440-38-2	7440-39-3	7440-41-7	7440-43-9	7440-47-3	7440-48-4	7440-50-8	7439-92-1	7439-96-5	7440-02-0	7782-49-2	7440-22-4	7440-28-0	7440-62-2	7440-66-6
Well Name	Sample Identifier	Sample Date	Screening Value (µg/L) ^a															
			6 ^b	10 ^b	2,000 ^b	4 ^b	5 ^b	50 ^b	50 ^b	1,000 ^b	15 ^b	200 ^b	200 ^b	50 ^b	50 ^b	2 ^b	86 ^c	10,000 ^b
TMW46	TMW46042018	4/25/18	1.0 U	1.3 J	170	0.51 J	1.0 U	5.0 J	2.7	3.6 U	3.2	180	3.5	120	0.10 U	0.062 J	12	12 J
	TMW46102017	10/25/17	1.0 U	3.3 J	370	0.91 J	1.0 U	11	6.2	8.1	9.9	440	8.5	120	0.14 U	0.17 J	23	33
	TMW46042017	4/20/17	1.0 U	0.49 J	27	0.30 U	1.0 U	1.6 J	0.37 J	1.6 J	0.56 J	19	0.91 J	110 J	0.10 U	0.20 U	3.9 J	5.3 J
	TMW46102016	10/28/16	1.0 U	1.1 J	130	0.30 J	1.0 U	4.7 J	2	3.3	3.2	130	3.1	120	0.056 J	0.062 J	9.6	22
TMW47	TMW47042018	5/3/18	1.0 U	0.53 J	13	0.30 U	1.0 U	1.8 U	0.064 J	2.4	0.70 U	38	1.0 U	2.0 U	0.10 U	0.20 U	2.0 U	8.0 U
	TMW47102017	10/26/17	1.0 U	0.55 J	12	0.30 U	1.0 U	1.8 U	0.20 U	1.8 U	0.70 U	40	1.0 U	2.0 U	0.10 U	0.20 U	2.0 U	2.1 J
	TMW47042017	4/25/17	1.0 U	0.44 J	14	0.30 U	1.0 U	1.8 U	0.20 U	1.8 U	0.70 U	38	1.0 U	2.0 U	0.10 U	0.20 U	2.0 U	8.0 U
	TMW47102016	11/4/16	1.0 U	0.48 J	12	0.12 J	1.0 U	1.8 U	0.092 J	0.78 J	0.70 U	33	1.0 U	1.0 J	0.10 U	0.081 U	2.0 U	2.3 J
Northern Bedrock Groundwater Zone																		
BGMW07	BGMW07042018	4/26/18	1.7 J	0.43 J	98	0.30 U	1.0 U	3.7 J	2.2	0.77 J	0.22 J	1400	15	2.0 U	0.10 U	0.20 U	1.6 J	8.0 U
BGMW08	BGMW08042018	4/2018	Well was dry and was not sampled															
BGMW09	BGMW09042018	5/1/18	1.0 U	20	1600	10	0.54 J	270	67	55	54	3400	170	2.0 U	0.10 J	0.70 J	180	530
BGMW10	BGMW10042018	4/27/18	3.8 J	1.0 U	16	0.30 U	1.0 U	6.5 J	0.26 J	1.2 J	0.21 J	26	2.8 J	2.0 U	0.10 U	0.20 U	0.56 J	8.0 U
TMW02	TMW02042018	5/1/18	1.0 U	1.0 J	8.6	0.30 U	1.0 U	1.8 U	0.20 U	1.8 U	0.70 U	0.41 J	1.0 U	83	0.10 U	0.20 U	46	8.0 U
	TMW02102017	10/24/17	1.0 U	0.88 J	8.9	0.30 U	1.0 U	1.8 U	0.20 U	1.8 U	0.88 J	0.41 J	1.0 U	75	0.10 U	0.20 U	40	8.0 U
	TMW02042017	4/24/17	1.0 U	1.1 J	7.7 J	0.30 UJ	1.0 UJ	1.8 U	0.20 U	1.8 U	0.70 UJ	0.92 J	1.0 U	79	0.10 U	0.20 U	42	8.0 U
	TMW02102016	11/1/16	1.0 U	1.1 J	7.8	0.30 U	1.0 U	1.8 U	0.20 U	1.8 U	0.70 U	0.52 U	1.0 U	79	0.10 U	0.20 U	38	8.0 U
TMW14A	TMW14A042018	5/3/18	1.0 U	0.60 J	19	0.30 U	1.0 U	1.8 U	0.20 U	6.7	0.70 U	14	1.2 J	2.0 U	0.10 U	0.20 U	2.0 U	2.6 J
	TMW14A102017	10/26/17	1.0 U	0.52 J	50	0.30 U	1.0 U	0.96 J	0.29 J	3.1	0.46 J	33	0.85 J	2.0 U	0.072 J	0.20 U	0.87 J	5.7 J
	TMW14A042017	4/27/17	1.0 U	0.73 J	19	0.30 U	1.0 U	1.8 U	0.20 U	1.3 J	0.70 U	11	0.60 J	2.0 U	0.10 U	0.20 U	2.0 U	8.0 U
	TMW14A102016	11/3/16	1.0 U	0.57 J	20	0.30 U	1.0 U	1.1 J	0.20 U	1.2 J	0.70 U	25	0.37 J	2.0 U	0.10 U	0.20 U	2.0 U	3.8 J
TMW16	TMW16042018	4/25/18	1.3 J	0.50 J	87	0.29 J	1.0 U	20	2.7	6.0	1.8 J	63	54	2.0 U	0.66 J	0.051 J	18	31
	TMW16102017	10/20/17	1.0 U	1.0 U	29	0.30 U	1.0 U	6.9 J	0.61 U	3.8	0.70 U	17	21	2.0 U	0.14 U	0.20 U	8.9	15 J
	TMW16042017	4/20/17	1.0 U	1.6 J	100	0.38 J	1.0 U	8.1 J	2.1	5.9	2.0 J	76	23	2.0 U	1.3 J	0.050 J	54	28
	TMW16102016	10/28/16	1.0 U	1.0 U	18	0.30 U	1.0 U	1.9 J	0.31 J	1.3 J	0.31 J	6.7	8.2	2.0 U	0.12 J	0.20 U	13	13 J
TMW17	TMW17042018	5/3/18	1.0 U	1.0 U	15	0.30 U	1.0 U	1.8 U	0.20 U	0.60 J	0.58 J	12	1.0 U	2.0 U	0.10 U	0.20 U	2.0 U	4.2 J
	TMW17102017	10/26/17	1.0 U	1.0 U	15	0.30 U	1.0 U	1.8 U	0.20 U	1.3 J	0.72 J	13	0.48 J	2.0 U	0.13 J	0.20 U	2.0 U	92
	TMW17042017	4/27/17	1.0 U	0.42 J	16	0.30 U	1.0 U	1.8 U	0.20 U	0.75 J	0.72 J	14	1.0 U	2.0 U	0.10 U	0.20 U	2.0 U	18 J
	TMW17102016	11/4/16	1.0 U	1.0 U	14	0.30 U	1.0 U	1.8 U	0.059 J	1.1 J	0.70 J	13	0.35 J	2.0 U	0.10 U	0.20 U	0.52 J	54
TMW18	TMW18042018	4/25/18	0.64 J	1.5 J	21	0.30 U	1.0 U	1.7 J	0.080 J	3.2 U	0.77 J	10	0.80 J	2.0 U	0.41 J	0.20 U	20	6.5 J
	TMW18102017	10/19/17	1.0 U	2.3 J	15	0.30 U	1.0 U	1.6 J	0.20 U	1.6 J	0.61 J	9.1	0.58 J	1.6 J	0.25 U	0.20 U	17	7.6 J
	TMW18042017	4/20/17	1.0 U	1.8 J	22	0.30 U	1.0 U	1.8 J	0.18 J	2.1	0.95 J	13	0.86 J	2.0 U	0.14 J	0.20 U	26	4.9 J
	TMW18102016	10/28/16	1.0 U	0.54 J	14	0.30 U	1.0 U	1.8 U	0.20 U	0.67 J	0.39 J	7.7	0.36 J	1.1 U	0.094 J	0.20 U	6	2.6 J
TMW19	TMW19042018	4/25/18	1.0 U	1.0 U	9.8	0.30 U	1.0 U	0.65 J	0.20 J	1.8 U	0.32 J	24	3.0	2.0 U	0.11 U	0.20 U	6.0	8.6 J
	TMW19102017	10/19/17	1.0 U	1.0 U	8.9	0.30 U	1.0 U	1.1 J	0.24 U	2.8	0.33 J	22	3.2	0.77 J	0.10 U	0.20 U	6.4	18 J
	TMW19042017	4/20/17	1.0 U	1.0 U	8.2	0.087 J	1.0 U	0.78 J	0.21 J	1.1 J	0.35 J	20	2.5 J	2.0 U	0.037 J	0.20 U	7.3	7.8 J
	TMW19102016	10/28/16	1.0 U	0.36 J	8.9	0.30 U	1.0 U	1.1 J	0.19 J	1.0 J	0.33 J	18	3.7	2.0 U	0.074 J	0.20 U	7.6	19 J
	DTW19102016 ^d	10/28/16	1.0 U	1.0 U	8.3	0.30 U	1.0 U	1.5 J	0.21 J	1.1 J	0.31 J	17	3.9	2.0 U	0.065 J	0.20 U	7.1	22
TMW30	TMW30042018	4/26/18	1.0 U	1.0 J	30	0.30 U	1.0 U	1.5 J	0.39 J	1.8 U	0.77 J	29	0.92 J	7.3	0.10 U	0.20 U	16	11 U
	TMW30102017	10/25/17	1.0 U	0.82 J	20	0.30 U	1.0 U	0.77 J	0.41 J	1.3 J	0.71 J	21	0.37 J	7.5	0.10 U	0.20 U	15	8.5 J
	TMW30042017	4/19/17	1.0 U	0.88 J	16	0.30 U	1.0 U	1.9 J	0.51 J	2.1	0.51 J	13 J	1.0 J	6.8	0.13 J	0.20 U	12	11 J
	TMW30102016	10/26/16	1.0 U	1.0 J	28	0.084 J	1.0 U	1.9 J	0.58 J	2.8 J	1.4 J	27 J	1.5 J	7.1	0.080 J	0.20 U	16	18 J

Table 5-10: Summary of Total Metals Analytical Results - Method 6020A (µg/L)

			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
			CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS
			7440-36-0	7440-38-2	7440-39-3	7440-41-7	7440-43-9	7440-47-3	7440-48-4	7440-50-8	7439-92-1	7439-96-5	7440-02-0	7782-49-2	7440-22-4	7440-28-0	7440-62-2	7440-66-6
Well Name	Sample Identifier	Sample Date	Screening Value (µg/L) ^a															
			6 ^b	10 ^b	2,000 ^b	4 ^b	5 ^b	50 ^b	50 ^b	1,000 ^b	15 ^b	200 ^b	200 ^b	50 ^b	50 ^b	2 ^b	86 ^c	10,000 ^b
TMW31D	TMW31D042018	5/2/18	1.0 U	0.55 J	10	0.30 U	1.0 U	1.8 U	0.061 J	1.8 U	0.70 U	3.5	0.30 J	8.2	0.10 U	0.20 U	7.8	15 J
	TMW31D042018FD ^d	5/2/18	1.0 U	0.34 J	9.4	0.30 U	1.0 U	0.76 J	0.059 J	1.8 U	0.70 U	3.6	1.0 U	8.0	0.10 U	0.20 U	7.7	16 J
	TMW31D102017	10/26/17	1.0 U	0.47 J	9.1	0.30 U	1.0 U	1.8 U	0.060 J	0.56 J	0.70 U	5.5	0.56 J	7.7	0.10 U	0.20 U	6.5	18 J
	TMW31D102017FD ^d	10/26/17	1.0 U	0.67 J	8.7	0.30 U	1.0 U	1.8 U	0.20 U	0.63 J	0.70 U	4.3	1.0 U	8.1	0.10 U	0.20 U	6.4	19 J
	TMW31D042017	4/27/17	1.0 U	0.65 J	11	0.30 U	1.0 U	1.8 U	0.13 J	1.7 J	0.81 J	5.7	0.55 J	8.1	0.10 U	0.20 U	7	23
	DTW31D042017 ^d	4/27/17	1.0 U	0.40 J	11	0.30 U	1.0 U	1.8 U	0.20 U	0.71 J	0.70 U	4	0.36 J	8.7	0.10 U	0.20 U	7.3	16 J
	TMW31D102016	10/31/16	1.0 U	0.40 J	8.2	0.30 U	1.0 U	1.7 J	0.056 J	0.72 J	0.70 U	2.3 J	0.39 J	7.6	0.10 U	0.20 U	6.8	16 J
	DTW31D102016 ^d	10/31/16	1.0 U	0.48 J	8.7	0.30 U	1.0 U	1.8 UJ	0.062 J	0.57 J	0.70 U	1.9 J	0.31 J	7.8	0.10 U	0.20 U	6.8	15 J
TMW32	TMW32042018	5/1/18	1.0 U	0.73 J	7.8	0.30 U	1.0 U	1.8 U	0.20 U	1.8 U	0.70 U	26	1.0 U	4.4 J	0.10 U	0.20 U	3.5 J	8.0 U
	TMW32102017	10/20/17	1.0 U	0.87 J	8.7	0.30 U	1.0 U	1.8 U	0.20 U	1.8 U	0.70 U	27	1.0 U	3.8 U	0.10 U	0.20 U	2.2 U	2.5 J
	TMW32042017	4/27/17	1.0 U	1.3 J	6.4	0.30 U	1.0 U	1.8 U	0.20 U	1.8 U	0.70 U	26	0.48 J	3.4 J	0.10 U	0.20 U	1.9 J	3.2 J
	TMW32102016	11/2/16	0.56 J	1.6 J	6.8 J	0.30 U	1.0 U	1.8 U	0.20 U	0.64 J	0.70 U	27	0.51 J	3.8 J	0.10 U	0.20 U	2.0 U	2.3 J
TMW36	TMW36042018	4/25/18	1.0 U	1.0 U	8.1	0.30 U	1.0 U	3.6 J	0.22 J	2.1 U	0.55 J	15	6.5	2.0 U	0.41 J	0.20 U	2.0 U	18 J
	TMW36102017	10/19/17	1.0 U	1.0 U	8.8	0.30 U	1.0 U	2.0 J	0.20 U	1.0 J	0.47 J	17	4.1	2.0 U	0.21 U	0.20 U	2.0 U	20
	TMW36042017	4/20/17	1.0 U	1.0 U	7.7	0.30 U	1.0 U	3.6 J	0.23 J	0.90 J	0.49 J	15	6.6	2.0 U	0.91 J	0.20 U	2.0 J	16 J
	TMW36102016	10/27/16	1.0 U	1.0 U	8.4	0.30 U	1.0 U	1.1 J	0.23 J	0.67 J	0.62 J	13	4.1	2.0 U	0.073 J	0.20 U	2.7 J	19 J
TMW37	TMW37042018	4/25/18	1.0 U	0.36 J	13	0.30 U	1.0 U	5.7 J	0.39 J	2.0 U	1.6 J	12	11	2.0 U	0.17 U	0.20 U	4.7 J	56
	TMW37102017	10/20/17	1.0 U	0.59 J	15	0.30 U	1.0 U	2.4 J	0.24 U	1.7 J	1.6 J	11	7.2	2.0 U	0.12 U	0.20 U	9.4	60
	TMW37042017	4/20/17	1.0 U	0.35 J	12	0.10 J	1.0 U	1.8 J	0.32 J	1.3 J	1.3 J	13	10	2.0 U	0.10 U	0.20 U	3.0 J	53
	TMW37102016	10/27/16	1.0 U	0.49 J	14	0.30 U	1.0 U	2.8 J	0.36 J	1.1 J	1.7 J	11	9.4	2.0 U	0.86 J	0.10 J	4.8 J	64
TMW38	TMW38042018	5/1/18	1.0 U	0.56 J	13	0.30 U	1.0 U	1.8 U	0.10 J	1.8 U	0.70 U	76	1.0 U	2.0 U	0.10 U	0.20 U	2.0 U	8.0 U
	TMW38102017	10/26/17	1.0 U	0.59 J	13	0.30 U	1.0 U	1.8 U	0.097 J	1.8 U	0.70 U	69	1.0 U	2.0 U	0.10 U	0.20 U	2.0 U	4.5 J
	TMW38042017	4/26/17	1.0 U	0.60 J	16	0.30 U	1.0 U	1.8 U	0.20 J	0.60 J	0.22 J	79	0.59 J	2.0 U	0.10 U	0.20 U	2.0 U	29
	TMW38102016	11/4/16	1.0 U	0.53 J	14	0.30 U	1.0 U	1.8 U	0.091 J	1.8 U	0.70 U	74	1.0 U	2.0 U	0.044 J	0.20 U	2.0 U	8.0 U
TMW39D	TMW39D042018	5/3/18	1.0 U	1.0 U	7.3	0.30 U	1.0 U	1.8 U	0.057 J	1.8 U	0.70 U	52	1.0 U	2.0 U	0.10 U	0.20 U	2.0 U	8.0 U
	TMW39D102017	10/27/17	1.0 U	1.0 U	7.4	0.30 U	1.0 U	1.8 U	0.20 U	1.8 U	0.70 U	50	1.0 U	2.0 U	0.10 U	0.20 U	2.0 U	8.0 U
	TMW39D042017	4/27/17	1.0 U	1.0 U	8.7	0.30 U	1.0 U	1.8 U	0.20 U	1.8 U	0.70 U	57	0.72 J	2.0 U	0.10 U	0.20 U	2.0 U	2.0 J
	TMW39D102016	10/31/16	1.0 U	1.0 U	7.9	0.30 U	1.0 U	2.7 J	0.20 U	1.8 U	0.70 U	49	1.0 U	0.97 J	0.10 U	0.20 U	0.57 J	8.0 U
TMW40D	TMW40D042018	5/1/18	1.0 U	0.35 J	10	0.30 U	1.0 U	1.1 J	0.088 J	0.65 J	4.8	53	1.0 U	3.1 J	0.10 U	0.20 U	2.9 J	8.0 U
	TMW40D102017	10/23/17	1.0 U	0.36 J	9.5	0.30 U	1.0 U	1.8 U	0.060 J	1.8 U	0.70 U	48	1.0 U	3.6 U	0.10 U	0.20 U	2.3 J	5.8 J
	TMW40D042017	4/25/17	1.0 U	0.43 J	9.8	0.30 U	1.0 U	1.8 U	0.082 J	1.8 U	0.70 U	50	1.0 U	3.2 J	0.10 U	0.20 U	3.2 J	2.4 J
	TMW40D102016	10/31/16	1.0 U	0.46 J	9.8	0.30 U	1.0 U	5.1 J	0.056 J	0.70 J	0.70 U	51	1.0 U	3.5 J	0.10 U	0.20 U	3.0 J	9.2 J
TMW48	TMW48042018	5/2/18	1.0 U	0.62 J	12	0.30 U	1.0 U	1.8 J	0.064 J	1.8 U	0.70 U	59	1.0 U	6.8	0.10 U	0.20 U	4.8 J	11 J
	TMW48102017	10/27/17	1.0 U	0.74 J	12	0.30 U	1.0 U	1.8 U	0.20 U	0.75 J	0.70 U	60	1.0 U	6.5	0.10 U	0.20 U	3.8 J	11 J
	TMW48042017	4/26/17	1.0 U	0.58 J	11	0.30 U	1.0 U	1.8 U	0.20 U	0.78 J	0.70 U	54	0.69 J	6.3	0.10 U	0.20 U	4.0 J	12 J
	TMW48102016	11/1/16	1.0 U	0.53 J	10	0.30 U	1.0 U	1.8 U	0.20 U	0.85 J	0.70 U	41	0.36 J	6.1	0.10 U	0.20 U	2.9 J	12 U
TMW49	TMW49042018	5/4/18	1.0 U	0.53 J	11	0.30 U	1.0 U	1.3 J	0.064 J	0.92 J	0.70 U	11	0.48 J	18	0.10 U	0.20 U	13	10 J
	TMW49102017	10/27/17	1.0 U	0.44 J	15	0.30 U	1.0 U	1.2 J	0.20 U	1.1 J	0.20 J	8.4	1.1 J	23	0.033 J	0.20 U	10	7.3 J
	TMW49042017	4/26/17	1.0 U	0.57 J	11	0.30 U	1.0 U	0.90 J	0.058 J	1.6 J	0.70 U	4.2	0.44 J	19	0.10 U	0.20 U	12	7.5 J
	TMW49102016	11/2/16	1.0 U	0.60 J	11 J	0.30 U	1.0 U	3.6 J	0.20 U	1.4 J	0.70 U	1.7 J	0.65 J	24	0.10 U	0.20 U	11 U	5.9 J

Table 5-10: Summary of Total Metals Analytical Results - Method 6020A (µg/L)

Notes:

^a Mercury is analyzed using EPA Method 7470A, and the remaining metals are analyzed using EPA Method 6010C/6020A.

^b New Mexico Water Quality Control Commission - NMAC 20.6.2.3103.

^c EPA Region 6 regional screening levels. EPA, May 2019. <https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables>

^d Indicates a field duplicate sample.

Bold indicates analyte was positively detected above screening values.

Acronyms and Abbreviations:

µg/L = microgram per liter

CAS = Chemical Abstracts Service (registry number)

CFR = Code of Federal Regulations

EPA = U.S. Environmental Protection Agency

J = (Estimated) The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to nonconformances discovered during data validation.

NE = not established

NMAC = New Mexico Administrative Code

U = (Non-detected) The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of associated blank(s).

UJ = (Non-detected estimated) The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.

Table 5-11: Summary of Dissolved Metals Analytical Results - Method 6010C and 7470A (µg/L)

			Aluminum	Calcium	Iron	Magnesium	Potassium	Sodium	Mercury
			CAS	CAS	CAS	CAS	CAS	CAS	CAS
			7429-90-5	7440-70-2	7439-89-6	7439-95-4	7440-09-7	7440-23-5	7439-97-6
Well Name	Sample Identifier	Sample Date							
			5000 ^b	NE	1000 ^b	NE	NE	NE	NE
Northern Alluvial Groundwater Zone									
BGMW01	BGMW01042018	4/27/2018	730	44000	560	25000	760 J	790000	0.08 U
	BGMW01102017	10/23/17	20 J	40000	85 U	26000	420 J	750000	0.080 U
	BGMW01042017	4/24/17	70 U	42000	85 U	24000	2400 J	810000	0.080 UJ
	BGMW01102016	11/2/16	70 U	39000	85 U	23000	400 J	830000	0.080 U
BGMW02	BGMW02042018	4/26/18	70 U	76000	85 U	110000	770 J	970000	0.08 U
	BGMW02102017	10/20/17	70 U	76000 J	85 U	100000 J	4500 J	840000	0.080 U
	BGMW02042017	4/21/17	26 J	75000	85 U	120000	930 J	960000	0.080 U
	BGMW02102016	11/2/16	68 J	77000	42 J	110000	540 J	1000000	0.080 U
BGMW03	BGMW03042018	4/24/18	70 U	95000	85 U	21000	1800 J	660000	0.08 U
	BGMW03102017	10/19/17	53 J	83000	85 U	20000	1900 J	670000	0.080 U
	BGMW03042017	4/20/17	60 J	100000	130	23000	2600 J	720000	0.080 UJ
	BGMW03102016	10/28/16	70 U	82000	85 U	18000	2100 J	760000	0.080 U
FW31	FW31042018	4/23/18	70 U	6300	85 U	2200	1400 J	530000	0.08 U
	FW31102017	10/18/17	420	5700	170	2300	1600 J	490000	0.080 U
	FW31042017	4/17/17	70 U	8200	85 U	2700	2600 J	570000	0.080 U
	FW31102016	10/26/16	70 U	6000	85 U	2400	1500 J	520000 J	0.080 U
FW35	Well has been dry since 2015								
MW01	MW01042018	4/23/18	3300	35000	1600	7500	1100	910000	0.08 U
	MW01102017	10/24/17	12000	35000	7300	9800	2700 J	930000	0.080 U
	MW01042017	4/19/17	59000	63000	40000	23000	14000 J	940000	0.053 J
	MW01102016	10/27/16	41 J	35000	85 U	8000	320 J	1100000 J	0.080 U
MW02	MW02042018	4/23/18	70 U	120000	85 U	26000	550 J	380000	0.08 U
	MW02102017	10/24/17	54 J	120000	32 J	27000	780 J	450000	0.080 U
	MW02042017	4/19/17	70 U	120000	85 U	26000	1500 J	380000	0.080 U
	MW02102016	10/27/16	29 J	130000	85 U	30000	600 J	470000 J	0.080 U
MW03	MW03042018	4/27/18	70 U	45000	27 U	9200	480 J	990000	0.08 U
	MW03102017	10/23/17	70 U	55000	85 U	11000	560 J	1100000	0.080 U
	MW03042017	4/21/17	70 U	51000	85 U	11000	540 J	1100000	0.080 U
	MW03102016	11/3/16	70 U	57000	85 U	10000	940 J	1100000	0.080 U
MW18D	MW18D042018	4/25/18	640	64000	360	18000	1000 J	1700000	0.08 U
	MW18D102017	10/19/17	82 J	61000	85 U	18000	960 J	2000000	0.080 U
	MW18D042017	4/20/17	70 U	67000	85 U	18000	5300 J	2000000	0.080 UJ
	MW18D102016	10/28/16	25 J	61000	85 U	16000	670 J	2200000	0.080 U
MW18S	Well has been dry since 2011								
MW20	MW20042018	4/30/18	70 U	300000	85 U	62000	2200 J	3400000	0.08 U
	MW20102017	10/23/17	70 U	290000	85 U	63000	2400 J	3200000	0.080 U
	MW20042017	4/24/17	70 U	280000	85 U	59000	8800	3400000	0.080 UJ
	MW20102016	11/4/16	70 UJ	310000	53 J	60000	4100 J	3700000	0.080 U
MW22D	MW22D042018	4/27/18	21 J	71000	170 J	15000	750 J	1000000	0.08 U
	MW22D102017	10/23/17	70 U	89000	85 U	18000	600 J	1100000	0.080 U
	MW22D042017	4/19/17	70 U	81000	85 U	16000	2400 J	990000	0.080 U
	MW22D102016	10/28/16	70 U	82000	85 U	16000	410 J	1200000	0.080 U
MW22S	MW22S042018	4/2018	Well was dry and was not sampled						
	MW22S102017	10/2017	Well was dry and was not sampled						
	MW22S042017	4/1/17	Well was dry and was not sampled						
	MW22S102016	10/2016	Well was dry and was not sampled						
MW23	MW23042018	4/24/18	70 U	15000	180	6500	1100 J	460000	0.08 U
	MW23042018FD ^c	4/24/18	70 U	15000	170	6600	1100 J	460000	0.08 U
	MW23102017	10/18/17	290 J	10000	210	5000	1400 J	460000	0.080 U
	MW23102017FD ^c	10/18/17	270 J	10000	190	5100	1500 J	470000	0.080 U
	MW23042017	4/18/17	720 J	11000	470	5000	2100 J	470000	0.080 U
	DMW23042017 ^c	4/18/17	700 J	11000	450	5200	2500 J	500000	0.080 U
	MW23102016	10/27/16	70 U	11000	22 J	5100	1200 J	480000 J	0.080 U
MW24	MW24042018	4/23/18	70 U	33000	120	10000	880 J	270000	0.08 U
	MW24042018FD ^c	4/23/18	70 U	34000	55 J	10000	910 J	260000	0.08 U
	MW24102017	10/17/17	70 U	29000	1600	10000	970 J	260000	0.080 U
	MW24102017FD 01 ^c	10/17/17	70 U	29000	1600	10000	880 J	250000	0.080 U
	MW24042017	4/17/17	70 U	33000	1800	11000	1300 J	270000	0.080 U
	DMW24042017 ^c	4/17/17	70 U	34000	1800	11000	1300 J	270000	0.080 U
	MW24102016	10/26/16	70 U	28000	1700 J	11000	880 J	280000 J	0.080 U
SMW01	SMW01042018	4/26/18	70 U	29000	27 J	10000	500 J	950000	0.08 U
	SMW01102017	10/20/17	33 J	29000	29 J	9900	4500	880000	0.080 U
	SMW01042017	4/21/17	27 J	29000	85 U	11000	850 J	970000	0.080 U
	SMW01102016	11/2/16	70 U	30000	85 U	10000	940 U	960000	0.080 U

Table 5-11: Summary of Dissolved Metals Analytical Results - Method 6010C and 7470A (µg/L)

			Aluminum	Calcium	Iron	Magnesium	Potassium	Sodium	Mercury
			CAS	CAS	CAS	CAS	CAS	CAS	CAS
			7429-90-5	7440-70-2	7439-89-6	7439-95-4	7440-09-7	7440-23-5	7439-97-6
Well Name	Sample Identifier	Sample Date							
			5000 ^b	NE	1000 ^b	NE	NE	NE	2 ^b
TMW01	TMW01042018	5/4/18	70 U	29000	32 J	19000	530 J	590000	0.08 U
	TMW01102017	10/27/17	70 U	110000	85 U	20000	650 J	640000	0.080 U
	TMW01042017	4/25/17	70 U	110000	95 U	19000	1300 J	570000	0.080 U
	TMW01102016	10/31/16	70 U	100000	85 U	19000	270 J	580000	0.080 U
TMW03	TMW03042018	4/30/18	21 J	51000	120 U	12000	570 J	930000	0.08 U
	TMW03102017	10/25/17	70 U	51000	85 U	12000	820 J	920000	0.080 U
	TMW03042017	4/24/17	70 U	46000	85 U	9900	2600 J	970000	0.080 UJ
	TMW03102016	10/31/16	19 J	47000	85 U	10000	370 J	990000	0.080 U
TMW04	TMW04042018	5/2/18	70 U	31000	85 U	5700	1000 J	850000	0.08 U
	TMW04102017	10/25/17	70 U	32000	85 U	6000	1100 J	840000	0.080 U
	TMW04042017	4/24/17	70 U	28000	85 U	5100	2600 J	920000	0.080 UJ
	TMW04102016	11/3/16	70 U	32000	85 U	5600	1700 J	890000	0.082 U
TMW06	TMW06042018	4/30/18	70 U	35000	85 U	7600	450 J	870000	0.08 U
	TMW06102017	10/17/17	70 U	31000	85 U	7000	480 J	870000	0.080 U
	TMW06042017	4/20/17	70 U	36000	85 U	7800	940 J	950000	0.080 UJ
	TMW06102016	10/31/16	24 J	32000	85 U	7000	280 J	970000	0.080 U
TMW07	TMW07042018	4/25/18	70 U	63000	85 U	11000	2900 J	1200000	0.08 U
	TMW07102017	10/19/17	70 U	56000	85 U	11000	4000	1400000	0.080 U
	TMW07042017	4/20/17	19 J	62000	85 U	11000	4800 J	1400000	0.080 UJ
	TMW07102016	10/27/16	70 U	52000	33 J	9300	4700 J	1300000 J	0.080 U
TMW08	TMW08042018	4/27/18	70 U	260000	110 U	70000	3100	3800000	0.08 U
	TMW08102017	10/20/17	70 U	240000	85 U	72000	27000	4100000	0.080 U
	TMW08042017	4/21/17	70 U	220000	85 U	73000	3600	4000000	0.080 U
	TMW08102016	11/1/16	70 UJ	240000	85 U	64000	7100	3500000 J	0.080 U
	DTW08102016 ^c	11/1/16	70 UJ	220000	85 U	61000	6800	3700000 J	0.080 U
TMW10	TMW10042018	4/24/18	250 J	64000	180	17000	710 J	1500000	0.08 U
	TMW10102017	10/25/17	97 J	61000	65 J	17000	1100 J	1600000	0.080 U
	TMW10042017	4/21/17	70 U	67000	85 U	19000	820 J	1800000	0.080 U
	TMW10102016	11/2/16	600	69000	340	17000	700 J	2000000	0.080 U
TMW11	TMW11042018	5/2/18	32 J	21000	85 J	3300	940 J	560000	0.08 U
	TMW11102017	10/27/17	37 J	20000	30 J	3600	1200 J	630000	0.080 U
	TMW11042017	4/26/17	70 U	18000	85 U	3100	770 J	560000	0.080 U
	TMW11102016	11/3/16	70 U	21000	85 U	3300	890 J	610000	0.080 U
	DTW11102016 ^c	11/3/16	70 U	21000	25 J	3400	1100 J	620000	0.080 U
TMW13	TMW13042018	5/1/18	70 U	27000	22 J	5000	750 J	520000	0.08 U
	TMW13102017	10/26/17	70 U	26000	85 U	5100	650 J	600000	0.080 U
	TMW13042017	4/25/17	70 U	27000	85 U	4800	1600 J	560000	0.080 U
	TMW13102016	11/1/16	70 UJ	27000	85 U	4800	1600 J	570000 J	0.080 U
TMW15	TMW15042018	5/3/18	25 J	19000	280	3400	620 J	570000	0.080 U
	TMW15042018FD ^c	5/3/18	70 U	19000	85 U	3400	660 J	570000	0.080 U
	TMW15102017	10/26/17	70 U	19000	23 J	3700	550 J	570000	0.080 U
	TMW15102017FD ^c	10/26/17	70 U	18000	3900 J	3600	650 J	610000	0.080 U
	TMW15042017	4/27/17	70 U	18000	30 U	3400	490 J	530000	0.080 U
	DTW15042017 ^c	4/27/17	70 U	19000	85 U	3500	400 J	530000	0.080 U
	TMW15102016	11/2/16	70 U	18000	85 U	3400	400 J	570000	0.080 U
TMW21	TMW21042018	5/1/18	84 J	33000	70 J	6800	930 J	580000	0.08 U
	TMW21102017	10/25/17	70 U	34000	85 U	7400	920 J	600000	0.080 U
	TMW21042017	4/26/17	21 J	32000	85 U	7000	800 J	630000	0.080 U
	TMW21102016	10/27/16	20 J	31000	85 U	6600	660 J	660000 J	0.080 U
TMW22	TMW22042018	4/25/18	710	36000	660	12000	920 J	790000	0.08 U
	TMW22102017	10/25/17	70 U	34000	85 U	11000	900 J	770000	0.080 U
	TMW22042017	4/19/17	820	38000	450	12000	2500 J	900000	0.080 U
	TMW22102016	10/27/16	210 J	34000	150	10000	680 J	870000 J	0.080 U
TMW23	TMW23042018	4/25/18	70 U	17000	85 U	4500	550 J	690000	0.08 U
	TMW23102017	10/19/17	70 U	16000	85 U	4700	840 J	800000	0.080 U
	TMW23042017	4/20/17	11000	22000	7300	7000	3000 J	740000	0.080 UJ
	TMW23102016	10/28/16	70 U	17000	85 U	4300	490 J	810000	0.080 U
TMW24	TMW24042018	4/30/18	70 U	40000	50 U	10000	540 J	980000	0.08 U
	TMW24102017	10/24/17	70 U	36000	43 J	9100	840 J	1000000	0.080 U
	TMW24042017	4/25/17	70 U	39000	85 U	9900	2800 J	1000000	0.080 U
	TMW24102016	11/3/16	70 U	39000	56 J	9200	1700 J	1000000	0.080 U
TMW25	TMW25042018	4/30/18	70 U	52000	26 U	11000	450 J	850000	0.08 U
	TMW25102017	10/25/17	70 U	51000	24 J	11000	450 J	900000	0.080 U
	TMW25042017	4/27/17	70 U	51000	85 U	11000	430 J	890000	0.080 U
	TMW25102016	11/1/16	23 J	52000	41 J	10000	1500 J	890000 J	0.080 U

Table 5-11: Summary of Dissolved Metals Analytical Results - Method 6010C and 7470A (µg/L)

Well Name	Sample Identifier	Sample Date	Aluminum	Calcium	Iron	Magnesium	Potassium	Sodium	Mercury
			CAS	CAS	CAS	CAS	CAS	CAS	CAS
			7429-90-5	7440-70-2	7439-89-6	7439-95-4	7440-09-7	7440-23-5	7439-97-6
			5000 ^b	NE	1000 ^b	NE	NE	NE	2 ^b
TMW26	TMW26042018	4/26/18	70 U	18000	85 U	7300	510 J	850000	0.08 U
	TMW26042018FD ^c	4/26/18	70 U	19000	37 J	7700	540 J	910000	0.08 U
	TMW26102017	10/17/17	500	17000	220	6700	680 J	810000	0.080 U
	TMW26102017FD ^c	10/17/17	510	17000	220	6900	810 J	850000	0.080 U
	TMW26042017	4/20/17	70 U	18000	85 U	7000	840 J	830000	0.080 UJ
	DTW26042017 ^c	4/20/17	70 U	18000	85 U	7100	850 J	820000	0.080 UJ
	TMW26102016	11/1/16	19 J	18000	25 J	6500	770 J	840000 J	0.080 U
TMW27	TMW27042018	4/27/18	70 U	26000	580	6800	550 J	360000	0.08 U
	TMW27102017	10/20/17	70 U	24000	560	6400	1500 J	310000	0.080 U
	TMW27042017	4/21/17	70 U	23000	490	6700	850 J	330000	0.080 U
	TMW27102016	11/3/16	70 U	25000	510	6200	980 J	350000	0.080 U
TMW28	TMW28042018	4/26/18	70 U	120000	310	38000	1200 J	360000	0.08 U
	TMW28102017	10/20/17	70 U	110000	350	33000	2300 J	320000	0.080 U
	TMW28042017	4/24/17	35 J	250000	720	68000	2600 J	490000	0.080 UJ
	TMW28102016	11/3/16	70 U	110000	350	34000	1800 J	340000	0.080 U
TMW29	TMW29042018	4/23/18	1300	39000	740	7100	1100 J	590000	0.08 U
	TMW29102017	10/20/17	67 J	38000	36 J	7100	3100	540000	0.080 U
	TMW29042017	4/20/17	7900	46000	4900	9500	2900 J	570000	0.080 UJ
	TMW29102016	10/28/16	18 J	36000	85 U	6900	810 J	600000	0.080 U
TMW31S	TMW31S042018	4/25/18	70 U	120000	85 U	21000	330 J	530000	0.08 U
	TMW31S102017	10/25/17	70 U	110000	85 U	21000	560 J	500000	0.080 U
	TMW31S042017	4/19/17	520	110000	280	20000	1700 J	530000	0.080 U
	TMW31S102016	10/27/16	770	110000	370	21000	810 J	610000 J	0.080 U
TMW33	TMW33042018	4/25/18	1200	100000	800	30000	1400 J	2200000	0.08 U
	TMW33102017	10/20/17	70 U	110000	85 U	29000	15000	2200000	0.080 U
	TMW33042017	4/20/17	86 J	110000	85 U	31000	6300 J	2500000	0.080 UJ
	TMW33102016	10/28/16	50 J	97000	85 U	27000	700 J	2600000	0.080 U
TMW34	TMW34042018	4/27/18	2500 J	110000	1500 J	24000	2200 J	1400000	0.08 U
	TMW34042018FD ^c	4/27/18	5000 J	110000	3300 J	24000	2700 J	1300000	0.08 U
	TMW34102017	10/25/17	240 J	120000	180 J	26000	1200 J	1300000	0.080 U
	TMW34102017FD ^c	10/25/17	430	130000	320 J	27000	1400 J	1400000	0.080 U
	TMW34042017	4/24/17	70 U	120000	85 U	24000	3200	1400000	0.080 UJ
	DTW34042017 ^c	4/24/17	70 U	120000	85 U	27000	3000	1400000	0.080 UJ
	TMW34102016	11/1/16	70 UJ	120000	85 U	24000	1800 J	1300000 J	0.080 U
TMW35	TMW35042018	4/27/18	70 U	68000	220 U	13000	940 J	1100000	0.08 U
	TMW35102017	10/23/17	70 U	76000	85 U	15000	790 J	1200000	0.080 U
	TMW35042017	4/24/17	70 U	79000	85 U	16000	2600 J	1200000	0.080 UJ
	TMW35102016	10/31/16	29 J	76000	22 J	14000	370 J	1200000	0.080 U
	DTW35102016 ^c	10/31/16	70 U	77000	85 U	15000	400 J	1300000	0.080 U
TMW39S	TMW39S042018	4/25/18	2800	81000	1600	18000	1100 J	820000	0.08 U
	TMW39S102017	10/18/17	57 J	70000	58 J	16000	960 J	860000	0.080 U
	TMW39S042017	4/19/17	70 U	81000	85 U	17000	3200 J	920000	0.080 U
	TMW39S102016	10/27/16	350	71000	170	15000	810 J	900000 J	0.080 U
TMW40S	TMW40S042018	4/27/18	11000	68000	5500	13000	1600 J	960000	0.08 U
	TMW40S102017	10/26/17	1200	59000	740	11000	850 J	1000000	0.080 U
	TMW40S042017	4/24/17	73 J	64000	87 U	10000	2700 J	920000	0.080 U
	TMW40S102016	10/2016	Well was dry and was not sampled						
TMW41	TMW41042018	4/25/18	110 J	15000	68 U	3800	610 J	790000	0.08 U
	TMW41102017	10/25/17	70 U	16000	85 U	3900	990 J	830000	0.080 U
	TMW41042017	4/19/17	70 U	15000	85 U	3700	2500 J	850000	0.080 U
	TMW41102016	10/27/16	70 U	16000	85 U	3900	790 J	930000 J	0.080 U
TMW43	TMW43042018	5/2/18	70 U	35000	85 U	6400	950 J	550000	0.08 U
	TMW43042018FD ^c	5/2/18	70 U	36000	85 U	6500	930 J	540000	0.08 U
	TMW43102017	10/24/17	70 U	32000	85 U	5800	740 J	580000	0.080 U
	TMW43102017FD ^c	10/24/17	70 U	33000	85 U	5900	960 J	590000	0.080 U
	TMW43042017	4/27/17	70 U	34000	85 U	6300	790 J	580000	0.080 U
	DTW43042017 ^c	4/27/17	50 J	32000	85 U	6000	750 J	540000	0.080 U
	TMW43102016	11/3/16	70 U	36000	42 J	6100	1700 J	570000	0.080 U
	DTW43102016 ^c	11/3/16	70 U	36000	85 U	6200	1600 J	580000	0.080 U
TMW44	TMW44042018	4/25/18	810	35000	500	12000	490 J	680000	0.08 U
	TMW44102017	10/25/17	42 J	35000	27 J	12000	710 J	740000	0.080 U
	TMW44042017	4/19/17	30 J	35000	85 U	11000	1500 J	710000	0.080 U
	TMW44102016	10/27/16	92 J	34000	64 J	11000	510 J	790000 J	0.080 U
TMW45	TMW45042018	5/2/18	70 U	30000	85 U	7500	1100 J	880000	0.08 U
	TMW45102017	10/27/17	70 U	26000	85 U	7300	980 J	920000	0.080 U
	TMW45042017	4/28/17	70 U	27000	85 U	6900	820 J	870000	0.080 U

Table 5-11: Summary of Dissolved Metals Analytical Results - Method 6010C and 7470A (µg/L)

			Aluminum	Calcium	Iron	Magnesium	Potassium	Sodium	Mercury
			CAS	CAS	CAS	CAS	CAS	CAS	CAS
			7429-90-5	7440-70-2	7439-89-6	7439-95-4	7440-09-7	7440-23-5	7439-97-6
Well Name	Sample Identifier	Sample Date							
			5000 ^b	NE	1000 ^b	NE	NE	NE	2 ^b
TMW46	TMW45102016	11/4/16	70 UJ	29000	23 J	7100	1400 J	960000	0.080 U
	DTW45102016 ^c	11/4/16	70 UJ	30000	85 U	7200	1600 J	970000	0.080 U
	TMW46042018	4/25/18	70 U	83000	85 U	20000	410 J	1100000	0.08 U
	TMW46102017	10/25/17	320	80000	220	20000	870 J	1200000	0.080 U
	TMW46042017	4/20/17	29 J	82000	85 U	19000	1500 J	1300000	0.080 UJ
TMW47	TMW46102016	10/28/16	70 U	74000	85 U	17000	320 J	1300000	0.080 U
	TMW47042018	5/3/18	21 J	6300	85 U	680	1100 J	580000	0.08 U
	TMW47102017	10/26/17	70 U	5800	85 U	670	1300 J	560000	0.080 U
	TMW47042017	4/25/17	70 U	6300	85 U	680	2000 J	580000	0.080 U
	TMW47102016	11/4/16	70 UJ	6600	23 J	660	1800 J	570000	0.080 U
Northern Bedrock Groundwater Zone									
BGMW07	BGMW07042018	4/26/18	100 J	440000	170	67000	11000	4600000	0.080 U
BGMW08	BGMW08042018	04/2018	Well was dry and was not sampled						
BGMW09	BGMW09042018	5/1/18	130000	86000	110000	39000	16000	1200000	0.080 U
BGMW10	BGMW10042018	4/27/18	86 J	8200	88 J	970	1000 J	650000	0.080 U
TMW02	TMW02042018	5/2/18	70 U	23000	85 U	2700	1900 J	980000	0.08 U
	TMW02102017	10/24/17	70 U	22000	85 U	2600	1700 J	1100000	0.080 U
	TMW02042017	4/24/17	70 U	22000	180	2800	3500	1100000	0.080 UJ
	TMW02102016	11/1/16	70 UJ	23000	85 U	2600	2700 J	1100000 J	0.080 U
TMW14A	TMW14A042018	5/3/18	18 J	3300	26 J	390 J	750 J	460000	0.08 U
	TMW14A102017	10/26/17	26 J	3000	31 J	380 J	640 J	430000	0.080 U
	TMW14A042017	4/27/17	70 U	2900	85 U	350 J	620 J	400000	0.080 U
	TMW14A102016	11/3/16	70 U	3300	85 U	370 J	1200 J	430000	0.080 U
TMW16	TMW16042018	4/25/18	2400	4600	1300	1100	1000 J	430000	0.08 U
	TMW16102017	10/20/17	29 J	3900	85 U	420 J	2000 J	410000	0.080 U
	TMW16042017	4/20/17	53 J	3900	85 U	410 J	550 J	440000	0.080 UJ
	TMW16102016	10/28/16	70 U	3700	85 U	380 J	610 J	460000	0.080 U
TMW17	TMW17042018	5/3/18	85 J	3700	32 J	520	1000 J	460000	0.08 U
	TMW17102017	10/26/17	58 J	3300	85 U	540	1100 J	440000	0.080 U
	TMW17042017	4/27/17	93 J	3300	85 U	500	870 J	420000	0.080 U
	TMW17102016	11/4/16	55 J	3600	85 U	450 J	1200 J	430000	0.067 U
TMW18	TMW18042018	4/25/18	240 J	8300	24 J	630	3500	640000	0.08 U
	TMW18102017	10/19/17	130 J	6400	85 U	980	3100	690000	0.080 U
	TMW18042017	4/20/17	140 J	6900	85 U	880	3300 J	670000	0.080 UJ
	TMW18102016	10/28/16	72 J	6100	85 U	950	3100	690000	0.080 U
TMW19	TMW19042018	4/25/18	320	10000	890	1100	1000 J	660000	0.08 U
	TMW19102017	10/19/17	59 J	8800	85 U	1100	1200 J	700000	0.080 U
	TMW19042017	4/20/17	69 J	9400	85 U	1000	1200 J	680000	0.080 UJ
	TMW19102016	10/28/16	210 J	9200	95 U	1000	910 J	690000	0.080 U
	DTW19102016 ^c	10/28/16	400	9000	170	1000	930 J	700000	0.080 U
TMW30	TMW30042018	4/26/18	53 J	56000	57 U	12000	890 J	460000	0.08 U
	TMW30102017	10/25/17	70 U	56000	85 U	12000	870 J	410000	0.080 U
	TMW30042017	4/19/17	70 U	58000	85 U	12000	1700 J	460000	0.080 U
	TMW30102016	10/26/16	70 U	48000	34 J	11000	980 J	510000 J	0.080 U
TMW31D	TMW31D042018	5/2/18	70 U	71000	85 U	12000	1600 J	540000	0.08 U
	TMW31D042018FD ^c	5/2/18	70 U	71000	85 U	12000	1600 J	540000	0.08 U
	TMW31D102017	10/26/17	70 U	62000	85 U	12000	1700 J	560000	0.080 U
	TMW31D102017FD ^c	10/26/17	70 U	63000	69 J	12000	1700 J	610000	0.080 U
	TMW31D042017	4/27/17	70 U	62000	85 U	11000	1400 J	530000	0.080 U
	DTW31D042017 ^c	4/27/17	35 J	64000	85 U	11000	1500 J	520000	0.080 U
	TMW31D102016	10/31/16	70 U	65000	85 U	11000	1400 J	600000	0.080 U
	DTW31D102016 ^c	10/31/16	70 U	65000	85 U	11000	1400 J	560000	0.080 U
TMW32	TMW32042018	5/1/18	70 U	11000	85 U	1200	1300 J	670000	0.08 U
	TMW32102017	10/20/17	70 U	11000	34 J	1200	3500	640000	0.080 U
	TMW32042017	4/27/17	70 U	9700	85 U	1000	1100 J	670000	0.080 U
	TMW32102016	11/2/16	22 J	9900	85 U	1100	980 J	730000	0.080 U
TMW36	TMW36042018	4/25/18	70 U	8700	85 U	940	810 J	620000	0.08 U
	TMW36102017	10/19/17	70 U	8100	85 U	980	1200 J	700000	0.080 U
	TMW36042017	4/20/17	70 U	8700	85 U	930	1200 J	670000	0.080 UJ
	TMW36102016	10/27/16	70 U	8600	85 U	960	950 J	700000 J	0.080 U
TMW37	TMW37042018	4/25/18	130 J	5600	91 U	640	620 J	500000	0.08 U
	TMW37102017	10/20/17	19 J	5400	85 U	600	2600 J	470000	0.080 U
	TMW37042017	4/20/17	19 J	5700	85 U	620	870 J	520000	0.080 UJ
	TMW37102016	10/27/16	110 J	5400	86 J	600	650 J	540000 J	0.080 U

Table 5-11: Summary of Dissolved Metals Analytical Results - Method 6010C and 7470A (µg/L)

			Aluminum	Calcium	Iron	Magnesium	Potassium	Sodium	Mercury
			CAS	CAS	CAS	CAS	CAS	CAS	CAS
			7429-90-5	7440-70-2	7439-89-6	7439-95-4	7440-09-7	7440-23-5	7439-97-6
Well Name	Sample Identifier	Sample Date							
			5000 ^b	NE	1000 ^b	NE	NE	NE	2 ^b
TMW38	TMW38042018	5/1/18	70 U	18000	34 J	2000	1600 J	850000	0.08 U
	TMW38102017	10/26/17	70 U	14000	76 J	1700	1300 J	820000	0.080 U
	TMW38042017	4/26/17	70 U	16000	49 J	1800	1300 J	840000	0.080 U
	TMW38102016	11/4/16	70 UJ	16000	85 J	1700	2100 J	880000	0.080 U
TMW39D	TMW39D042018	5/1/18	70 U	19000	85 U	2000	1400 J	760000	0.08 U
	TMW39D102017	10/27/17	28 J	19000	22 J	2100	1500 J	720000	0.080 U
	TMW39D042017	4/27/17	21 J	20000	85 U	2100	1400 J	690000	0.080 U
	TMW39D102016	10/31/16	18 J	35000	85 U	5500	1300 J	670000	0.080 U
TMW40D	TMW40D042018	5/1/18	70 U	15000	85 U	1900	1400 J	680000	0.08 U
	TMW40D102017	10/23/17	70 U	15000	41 J	2000	1500 J	680000	0.080 U
	TMW40D042017	4/25/17	70 U	14000	85 U	1900	2400 J	730000	0.080 U
	TMW40D102016	10/31/16	70 U	14000	85 U	1800	1100 J	720000	0.080 U
TMW48	TMW48042018	5/2/18	70 U	82000	85 U	15000	1600 J	560000	0.08 U
	TMW48102017	10/27/17	70 U	65000	85 U	13000	1700 J	610000	0.080 U
	TMW48042017	4/26/17	70 U	77000	85 U	16000	1200 J	560000	0.080 U
	TMW48102016	11/1/16	70 UJ	66000	85 U	11000	1500 J	580000 J	0.080 U
TMW49	TMW49042018	5/4/18	70 U	82000	89 J	14000	1600 J	620000	0.08 U
	TMW49102017	10/27/17	26 J	60000	85 U	11000	2000 J	700000	0.080 U
	TMW49042017	4/26/17	70 U	74000	85 U	13000	1300 J	570000	0.080 U
	TMW49102016	11/2/16	70 U	75000	85 U	14000	1400 J	600000	0.080 U

Notes:

^a Mercury is analyzed using EPA Method 7470A, and the remaining metals are analyzed using EPA Method 6010C/6020A.

^b New Mexico Water Quality Control Commission - NMAC 20.6.2.3103.

^c Indicates a field duplicate sample.

Bold indicates analyte was positively detected above screening values.

Acronyms and Abbreviations:

µg/L = microgram per liter

CAS = Chemical Abstracts Service (registry number)

CFR = Code of Federal Regulations

EPA = U.S. Environmental Protection Agency

J = (Estimated) The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to nonconformances discovered during data validation.

NE = not established

NMAC = New Mexico Administrative Code

U = (Non-detected) The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).

UJ = (Non-detected estimated) The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.

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Table 5-12: Summary of Total Metals Analytical Results - Method 6010C and 7470A (µg/L)

			Aluminum	Calcium	Iron	Magnesium	Potassium	Sodium	Mercury
			CAS	CAS	CAS	CAS	CAS	CAS	CAS
			7429-90-5	7440-70-2	7439-89-6	7439-95-4	7440-09-7	7440-23-5	7439-97-6
Well Name	Sample Identifier	Sample Date	Screening Value (ug/L) ^a						
			5000 ^b	NE	1000 ^b	NE	NE	NE	2 ^b
Northern Alluvial Groundwater Zone									
BGMW01	BGMW01042018	4/27/18	4200	46000	2500	25000	2000 J	860000	0.08 U
	BGMW01102017	10/23/17	19 J	35000	31 J	23000	500 J	720000	0.080 U
	BGMW01042017	4/24/17	41 J	43000	55 J	26000	650 J	810000	0.080 U
	BGMW01102016	11/2/16	100 J	41000	81 J	23000	900 J	780000	0.080 U
BGMW02	BGMW02042018	4/26/18	98 J	75000 J	68 J	110000	730 J	990000	0.080 U
	BGMW02102017	10/20/17	310	76000	150 U	100000	3500	920000 J	0.080 U
	BGMW02042017	4/21/17	190 J	73000	120	120000	940 U	940000	0.080 U
	BGMW02102016	11/2/16	130 J	84000	93 J	110000	1800 J	970000	0.080 U
BGMW03	BGMW03042018	4/24/18	530	84000	360	18000	1800 J	710000	0.080 U
	BGMW03102017	10/19/17	3000	60000	1500	14000	2100 J	750000	0.080 U
	BGMW03042017	4/20/17	3200 J	110000 J	2200 J	26000	3000	670000	0.080 UJ
	BGMW03102016	10/28/16	9900	86000	5100	19000	5600	690000	0.080 U
FW31	FW31042018	4/23/18	900	6400	480	2400	1600 J	500000	0.080 U
	FW31102017	10/18/17	1600	7200	600	2600	2100 J	530000	0.080 U
	FW31042017	4/17/17	7000 J	11000	2800 J	4400	4200 J	590000	0.080 U
	FW31102016	10/26/16	1400	6700	650 J	2700	1900 J	520000 J	0.080 U
FW35	Well has been dry since 2015								
MW01	MW01042018	4/23/18	8900	40000	5300	9600	2100 J	940000	0.080 U
	MW01102017	10/24/17	26000	49000	16000	14000	4700	950000	0.080 U
	MW01042017	4/19/17	140000	170000	99000	49000	22000 J	960000	0.17 J
	MW01102016	10/27/16	5500	37000	3100	8600	2100 J	940000 J	0.080 U
MW02	MW02042018	4/23/18	14000	130000	8900	29000	3200	400000	0.080 U
	MW02102017	10/24/17	19000	140000	10000	32000	3800	460000	0.080 U
	MW02042017	4/19/17	5300	130000	3400	29000	1600 J	420000	0.080 U
	MW02102016	10/27/16	7000	140000	4400	32000	2300 J	440000 J	0.080 U
MW03	MW03042018	4/27/18	49 J	47000	240	9400	840 J	1100000	0.08 U
	MW03102017	10/23/17	70 U	50000	91 J	10000	660 J	1200000	0.080 U
	MW03042017	4/21/17	70 U	49000	51 J	11000	940 U	1000000	0.080 U
	MW03102016	11/3/16	70 U	56000	67 J	10000	2100 J	1100000	0.080 U
MW18D	MW18D042018	4/25/18	2600	60000	1100	15000	1400 J	2000000	0.080 U
	MW18D102017	10/19/17	80 J	63000	53 J	17000	1300 J	2000000	0.027 J
	MW18D042017	4/20/17	7400 J	68000 J	4600 J	21000	2800 J	2100000	0.080 UJ
	MW18D102016	10/28/16	2500	70000	1400	18000	2600 J	2100000	0.080 U
MW18S	Well has been dry since 2011								
MW20	MW20042018	4/30/18	70 U	300000	96 J	61000	3900	3300000	0.080 U
	MW20102017	10/23/17	70 U	270000	37 J	58000	2900 J	3100000	0.080 U
	MW20042017	4/24/17	70 U	300000	31 J	63000	3600	3400000	0.080 U
	MW20102016	11/4/16	70 UJ	330000	51 J	63000 J	3900 J	3800000	0.042 J
MW22D	MW22D042018	4/27/18	70 U	74000	170 UJ	14000	710 J	1000000	0.08 U
	MW22D102017	10/23/17	20 J	73000 J	44 J	15000	1000 J	910000	0.080 U
	MW22D042017	4/19/17	70 U	85000	85 U	17000	1900 J	1000000	0.080 U
	MW22D102016	10/28/16	70 U	83000	85 U	16000	940 U	1100000	0.080 U
MW22S	MS22S042018	4/2018	Well was dry and not sampled						
	MW22S102017	10/2017	Well was dry and not sampled						
	MW22S042017	04/2017	Well was dry and not sampled						
	MW22S102016	10/2016	Well was dry and not sampled						
MW23	MW23042018	4/24/18	83 J	14000	270	5900	1300 J	470000	0.080 U
	MW23042018FD	4/24/18	64 J	13000	250	5600	1100 J	490000	0.080 U
	MW23102017	10/18/17	1700 J	10000	930 J	4900	1700 J	500000	0.080 U
	MW23102017FD ^c	10/18/17	1300	10000	680 J	4600	1800 J	500000	0.080 U
	MW23042017	4/18/17	970 J	10000	600 J	4700	2000 J	470000	0.080 U
	DMW23042017 ^c	4/18/17	1300 J	11000	760 J	4900	2600 J	500000	0.080 U
	MW23102016	10/27/16	420	12000	250	5200	1700 J	480000 J	0.080 U
MW24	MW24042018	4/23/18	190 J	33000	2000	11000	900 J	260000	0.080 U
	MW24042018FD	4/23/18	210 J	34000	2000	11000	930 J	270000	0.080 U
	MW24102017	10/17/17	230 J	30000	1900	11000	1100 J	260000	0.080 U
	MW24102017FD 01 ^c	10/17/17	290 J	31000	1900	11000	970 J	260000	0.080 U
	MW24042017	4/17/17	150 J	33000	1900 J	11000	1300 J	260000	0.080 U
	DMW24042017 ^c	4/17/17	70 U	32000	1800 J	10000	1200 J	260000	0.080 U
	MW24102016	10/26/16	62 J	31000	1900 J	11000	1000 J	260000 J	0.080 U
	DMW24102016 ^c	10/26/16	58 J	31000	1800 J	10000	1000 J	260000 J	0.080 U
SMW01	SMW01042018	4/26/2018	35 J	25000	75 J	9400	330 J	960000	0.037 J
	SMW01102017	10/20/17	100 J	28000	150 U	9600	3700	840000	0.038 J
	SMW01042017	4/21/17	36 J	27000	64 J	11000	940 U	910000	0.080 U
	SMW01102016	11/2/16	43 J	32000	58 J	10000	1300 J	930000	0.080 U

Table 5-12: Summary of Total Metals Analytical Results - Method 6010C and 7470A (µg/L)

			Aluminum	Calcium	Iron	Magnesium	Potassium	Sodium	Mercury
			CAS	CAS	CAS	CAS	CAS	CAS	CAS
			7429-90-5	7440-70-2	7439-89-6	7439-95-4	7440-09-7	7440-23-5	7439-97-6
Well Name	Sample Identifier	Sample Date	Screening Value (ug/L) ^a						
			5000 ^b	NE	1000 ^b	NE	NE	NE	2 ^b
TMW01	TMW01042018	5/4/18	70 U	110000	85 U	19000	390 J	580000	0.080 U
	TMW01102017	10/27/17	70 U	100000	85 U	20000	940 U	570000	0.080 U
	TMW01042017	4/25/17	70 U	100000	85 U	19000	2800 J	520000	0.080 U
	TMW01102016	10/31/16	70 U	110000	85 U	20000	970 J	530000 J	0.080 U
TMW03	TMW03042018	4/30/18	70 U	53000	85 U	11000	890 U	910000	0.080 U
	TMW03102017	10/25/17	22 J	47000	44 J	11000	450 J	1000000	0.080 U
	TMW03042017	4/24/17	46 J	50000	44 J	11000	1700 J	950000	0.080 U
	TMW03042017	10/31/16	46 J	51000	52 J	11000	720 J	920000 J	0.080 U
TMW04	TMW04042018	5/2/18	70 U	32000	85 U	5800	830 J	850000	0.080 U
	TMW04102017	10/25/17	70 U	32000	36 J	5900	710 J	950000	0.080 U
	TMW04042017	4/24/17	70 U	29000	89 J	5300	1700 J	870000	0.080 U
	TMW04102016	11/3/16	70 U	33000	36 J	5600	1400 J	920000	0.033 J
TMW06	TMW06042018	4/30/18	18 J	35000	85 U	7500	760 U	860000	0.080 U
	TMW06102017	10/17/17	70 U	33000	85 U	7400	440 J	940000	0.080 U
	TMW06042017	4/20/17	70 U	30000 J	27 UJ	7800	730 J	2200000	0.080 UJ
	TMW06102016	10/31/16	52 J	34000	45 J	8100	1200 J	850000 J	0.080 U
TMW07	TMW07042018	4/25/18	650	59000	800	9600	3300	1300000	0.080 U
	TMW07102017	10/19/17	580	57000	460	10000	4300	1300000	0.080 U
	TMW07042017	4/20/17	490 J	56000 J	390 J	11000	3200	1300000	0.080 UJ
	TMW07102016	10/27/16	130 J	54000	340	9200	6500	1300000 J	0.080 U
TMW08	TMW08042018	4/27/18	70 U	290000	710	74000	4100	4900000	0.08 U
	TMW08102017	10/20/17	70 U	250000	510	77000	24000	4000000	0.080 U
	TMW08042017	4/21/17	70 U	210000	350	72000	4000	4100000	0.080 U
	TMW08102016	11/1/16	70 U	230000	1100	73000	6200	3900000	0.080 U
	DTW08102016 ^c	11/1/16	20 J	250000	1500	72000	8100	4100000	0.080 U
TMW10	TMW10042018	4/24/18	5300	58000	2900	15000	1900 J	1600000	0.080 U
	TMW10102017	10/25/17	2300	64000	1500	17000	1500 J	1900000	0.080 U
	TMW10042017	4/21/17	6600	69000	4200	20000	2600 J	1800000	0.080 U
	TMW10102016	11/2/16	3700 J	70000	2300	16000	2300 J	1700000	0.080 U
TMW11	TMW11042018	5/2/18	790	20000	400	3400	830 J	560000	0.080 U
	TMW11102017	10/27/17	560	19000	330	3500	1200 U	610000	0.080 U
	TMW11042017	4/26/17	1100	19000	510	3500	4000	610000	0.080 U
	TMW11102016	11/3/16	8700	24000	3800	5300	2400 J	630000	0.027 J
	DTW11102016 ^c	11/3/16	10000	25000	4600	5700	2700 J	630000	0.028 J
TMW13	TMW13042018	5/1/18	70 U	27000	85 U	4900	710 U	520000	0.080 U
	TMW13102017	10/26/17	70 U	24000	85 U	5000	940 U	560000	0.080 U
	TMW13042017	4/25/17	26 J	27000	85 U	5300	3300	580000	0.080 U
	TMW13102016	11/1/16	70 U	26000	85 U	5100	2000 J	530000	0.080 U
TMW15	TMW15042018	5/3/18	70 U	19000	85 U	3400	560 J	560000	0.080 U
	TMW15042018FD	5/3/18	70 U	18000	71 J	3300	530 J	550000	0.080 U
	TMW15102017	10/26/17	70 U	18000	85 U	3600	940 U	550000	0.080 U
	TMW15102017FD ^c	10/26/17	70 U	18000	85 U	3600	940 U	560000	0.080 U
	TMW15042017	4/27/17	70 U	20000	85 U	3600	510 J	550000	0.080 U
	DTW15042017 ^c	4/27/17	70 U	20000	85 U	3700	480 J	570000	0.080 U
	TMW15102016	11/2/16	70 UJ	20000	85 U	3500	1200 J	560000	0.080 U
TMW21	TMW21042018	5/1/18	16000	53000	11000	12000	4100	610000	0.080 U
	TMW21102017	10/25/17	15000	45000	11000	11000	3700	610000	0.080 U
	TMW21042017	4/26/17	20000	49000	15000	13000	6700	660000	0.080 U
	TMW21102016	10/27/16	8700	37000	5300	8600	2800 J	620000 J	0.080 U
TMW22	TMW22042018	4/25/18	1100	35000	560	10000	1200 J	820000	0.080 U
	TMW22102017	10/25/17	240 J	33000	130	11000	730 J	830000	0.080 U
	TMW22042017	4/19/17	37000	62000	20000	21000	6700 J	870000	0.032 J
	TMW22102016	10/27/16	1700	38000	930	11000	1700 J	870000 J	0.080 U
TMW23	TMW23042018	4/25/18	12000	29000	6700	7000	2700 J	770000	0.080 U
	TMW23102017	10/19/17	7700	22000	4500	6200	2500 J	790000	0.080 U
	TMW23042017	4/20/17	6600 J	21000 J	4400 J	6600	2100 J	770000	0.080 UJ
	TMW23102016	10/28/16	2100	18000	1200	4800	1600 J	750000	0.080 U
TMW24	TMW24042018	4/30/18	55 J	41000	87 J	9900	950 U	970000	0.080 U
	TMW24102017	10/24/17	70 U	37000	65 J	8900	600 J	1000000	0.080 U
	TMW24042017	4/25/17	70 U	39000	190	10000	5400	1100000	0.080 U
	TMW24102016	11/3/16	70 U	37000	58 J	8600	1500 J	980000	0.080 U
TMW25	TMW25042018	4/30/18	42 J	54000	110	11000	750 U	830000	0.080 U
	TMW25102017	10/25/17	78 J	51000	320	11000	330 J	940000	0.080 U
	TMW25042017	4/27/17	44 J	54000	46 J	11000	470 J	910000	0.080 U
	TMW25102016	11/1/16	64 J	50000	87 J	11000	2000 J	860000	0.080 U

Table 5-12: Summary of Total Metals Analytical Results - Method 6010C and 7470A (µg/L)

			Aluminum	Calcium	Iron	Magnesium	Potassium	Sodium	Mercury
			CAS	CAS	CAS	CAS	CAS	CAS	CAS
			7429-90-5	7440-70-2	7439-89-6	7439-95-4	7440-09-7	7440-23-5	7439-97-6
Well Name	Sample Identifier	Sample Date	Screening Value (ug/L) ^a						
			5000 ^b	NE	1000 ^b	NE	NE	NE	2 ^b
TMW26	TMW26042018	4/26/18	250 J	17000	160	7200	400 J	840000	0.080 U
	TMW26042018FD	4/26/18	270 J	17000	150	7300	470 J	860000	0.080 U
	TMW26102017	10/17/17	570	18000	280	7100	780 J	890000	0.080 U
	TMW26102017FD ^c	10/17/17	610	18000	300	7100	800 J	880000	0.080 U
	TMW26042017	4/20/17	380 J	17000 J	200 J	7400	770 J	2100000	0.080 UJ
	DTW26042017 ^c	4/20/17	470 J	17000 J	270 J	7700	880 J	2100000	0.080 UJ
	TMW26102016	11/1/16	690	18000	350	7300	880 J	810000	0.080 U
TMW27	TMW27042018	4/26/18	31 J	24000	630	6600	490 J	360000	0.080 U
	TMW27102017	10/20/17	70 U	24000	640	6000	850 J	310000	0.080 U
	TMW27042017	4/21/17	70 U	22000	560	6600	850 U	330000	0.080 U
	TMW27102016	11/3/16	39 J	24000	570	5900	900 J	330000	0.028 J
TMW28	TMW28042018	4/26/18	51 J	100000	340	34000	1000 J	340000	0.080 U
	TMW28102017	10/20/17	70 U	100000	420	31000	1700 J	320000	0.080 U
	TMW28042017	4/24/17	70 U	230000	740	68000	2200 J	460000	0.080 U
	TMW28102016	11/3/16	70 U	100000	340	30000	1600 J	340000	0.027 J
TMW29	TMW29042018	4/23/18	17000	56000	10000	12000	3800	590000	0.080 U
	TMW29102017	10/20/17	25000	77000	17000	15000	6300	490000	0.080 U
	TMW29042017	4/20/17	8900 J	42000 J	5600 J	10000	3000	570000	0.080 UJ
	TMW29102016	10/28/16	7100	41000	3500	8600	2800 J	580000	0.080 U
TMW31S	TMW31S042018	4/25/18	260 J	110000	160 U	18000	600 J	560000	0.080 U
	TMW31S102017	10/25/17	150 J	110000	80 J	20000	390 J	530000	0.080 U
	TMW31S042017	4/19/17	10000	120000	4800	23000	2000 J	570000	0.080 U
	TMW31S102016	10/27/16	880	110000	420	20000	930 J	550000 J	0.080 U
TMW33	TMW33042018	4/25/18	6100	99000	3300	26000	2700 J	2500000	0.080 U
	TMW33102017	10/20/17	2200	110000	2000	31000	13000	2300000	0.080 U
	TMW33042017	4/20/17	3200 J	98000 J	2200 J	32000	2600 J	2400000	0.080 UJ
	TMW33102016	10/28/16	4700	100000	2900	29000	3600	2400000	0.080 U
TMW34	TMW34042018	4/27/18	41000	200000	31000	33000	8000	1400000	0.072 J
	TMW34042018FD	4/27/18	41000	200000	28000	33000	7900	1200000	0.093 J
	TMW34102017	10/25/17	48000	210000	39000	40000	9300	1400000	0.050 J
	TMW34102017FD ^c	10/25/17	47000	230000	38000	40000	8000	1400000	0.087 J
	TMW34042017	4/24/17	54 J	120000	75 J	26000	1700 J	1400000	0.080 U
	DTW34042017 ^c	4/24/17	46 J	130000	37 J	26000	2000 J	1400000	0.080 U
	TMW34102016	11/1/16	230 J	120000	140	27000	1900 J	1300000	0.080 U
TMW35	TMW35042018	4/27/18	70 U	73000	85 U	13000	320 J	1000000	0.08 U
	TMW35102017	10/23/17	70 U	74000	85 U	15000	980 J	1200000	0.080 U
	TMW35042017	4/24/17	70 U	81000	85 U	15000	1600 J	1200000	0.080 U
	TMW35102016	10/31/16	70 U	82000	85 U	16000	1400 J	1100000 J	0.080 U
	DTW35102016 ^c	10/31/16	70 U	80000	85 U	16000	950 J	1100000 J	0.080 U
TMW39S	TMW39S042018	4/25/18	37000	100000	20000	24000	4800	860000	0.080 U
	TMW39S102017	10/18/17	1300	76000	670	17000	1200 J	930000	0.080 U
	TMW39S042017	4/19/17	1800	82000	1000	18000	2100 J	1000000	0.080 U
	TMW39S102016	10/27/16	1900	73000	1100	15000	1600 J	840000 J	0.080 U
TMW40S	TMW40S042018	4/27/18	29000	74000	14000	18000	2500 J	890000	0.080 U
	TMW40S102017	10/26/17	39000	80000	21000	20000	4200	970000	0.027 J
	TMW40S042017	4/24/17	3100	64000	1600	11000	5300	1000000	0.080 U
	TMW40S102016	10/2016	Well was dry and not sampled						
TMW41	TMW41042018	4/25/18	1200	15000	540	3500	1200 J	870000	0.080 U
	TMW41102017	10/25/17	370	14000	220	3600	660 J	780000	0.080 U
	TMW41042017	4/19/17	850	17000	420	4200	1800 J	910000	0.080 U
	TMW41102016	10/27/16	490	16000	240	3800	1400 J	850000 J	0.080 U
TMW43	TMW43042018	5/2/18	20 J	35000	85 U	6300	890 J	530000	0.080 U
	TMW43042018FD	5/2/18	70 U	36000	26 J	6600	810 J	570000	0.080 U
	TMW43102017	10/24/17	70 U	33000	27 J	5700	990 J	570000	0.080 U
	TMW43102017FD ^c	10/24/17	70 U	32000	85 U	5700	1000 J	570000	0.080 U
	TMW43042017	4/27/17	70 U	35000	85 U	6200	730 J	570000	0.080 U
	DTW43042017 ^c	4/27/17	70 U	35000	85 U	6200	850 J	570000	0.080 U
	TMW43102016	11/3/16	47 J	35000	27 J	6000	1000 J	580000	0.035 J
	DTW43102016 ^c	11/3/16	26 J	36000	26 J	6000	1200 J	580000	0.027 J
TMW44	TMW44042018	4/25/18	5400	36000	3200	11000	1600 J	770000	0.080 U
	TMW44102017	10/25/17	10000	40000	7500	13000	2500 J	700000	0.080 U
	TMW44042017	4/19/17	4400	39000	3100	13000	2100 J	790000	0.080 U
	TMW44102016	10/27/16	4400	36000	3000	11000	2000 J	720000 J	0.080 U
TMW45	TMW45042018	5/2/18	84 J	29000	53 J	7600	650 J	900000	0.080 U
	TMW45102017	10/27/17	57 J	26000	85 U	7300	1200 U	910000	0.080 U
	TMW45042017	4/28/17	170 J	29000	110	7500	670 J	930000	0.052 J
	TMW45102016	11/4/16	160 J	31000	110	7300 J	1400 J	980000	0.030 J
	DTW45102016 ^c	11/4/16	170 J	28000	120	6700 J	1400 J	900000	0.028 J

Table 5-12: Summary of Total Metals Analytical Results - Method 6010C and 7470A (µg/L)

			Aluminum	Calcium	Iron	Magnesium	Potassium	Sodium	Mercury
			CAS	CAS	CAS	CAS	CAS	CAS	CAS
			7429-90-5	7440-70-2	7439-89-6	7439-95-4	7440-09-7	7440-23-5	7439-97-6
Well Name	Sample Identifier	Sample Date	Screening Value (ug/L) ^a						
			5000 ^b	NE	1000 ^b	NE	NE	NE	2 ^b
TMW46	TMW46042018	4/25/18	7600	87000	4000	18000	2100 J	1300000	0.080 U
	TMW46102017	10/25/17	15000	100000	9900	22000	3100	1100000	0.032 J
	TMW46042017	4/20/17	910 J	71000 J	570 J	19000	1000 J	1200000	0.080 UJ
	TMW46102016	10/28/16	7000	80000	4200	18000	2000 J	1200000	0.080 U
TMW47	TMW47042018	5/3/18	70 U	6200	25 J	660	1000 J	560000	0.080 U
	TMW47102017	10/26/17	70 U	5800	85 U	670	1200 U	560000	0.080 U
	TMW47042017	4/25/17	20 J	6100	85 U	680	3300	540000	0.080 U
	TMW47102016	11/4/16	70 UJ	6300	27 J	630 J	1300 J	550000	0.080 U
Northern Bedrock Groundwater Zone									
BGMW07	BGMW07042018	4/26/18	1000	430000	780	66000	11000	4600000	0.080 U
BGMW08	BGMW08042018	4/2018	Well was dry and not sampled						
BGMW09	BGMW09042018	5/1/18	230000	170000	170000	69000	24000	1100000	0.080 U
BGMW10	BGMW10042018	4/27/18	560	7800	430	1100	840 J	640000	0.080 U
TMW02	TMW02042018	5/1/18	70 U	24000	58 J	2800	1900 J	1000000	0.080 U
	TMW02102017	10/24/17	70 U	23000	85 U	2600	1800 J	1100000	0.080 U
	TMW02042017	4/24/17	19 J	22000	22 J	2700	2400 J	1100000	0.080 U
	TMW02102016	11/1/16	70 U	23000	85 U	2800	3000	1000000	0.080 U
TMW14A	TMW14A042018	5/3/18	52 J	3400	39 J	410 J	740 J	460000	0.080 U
	TMW14A102017	10/26/17	860	3800	400	740	940 U	420000	0.080 U
	TMW14A042017	4/27/17	43 J	3400	34 J	400 J	710 J	450000	0.080 U
	TMW14A102016	11/3/16	140 J	3400	180	410 J	1400 J	430000	0.028 J
TMW16	TMW16042018	4/25/18	5900	5300	2800	1900	1700 J	460000	0.080 U
	TMW16102017	10/20/17	1000	4300	1400	850	2100 J	420000	0.080 U
	TMW16042017	4/20/17	7000 J	5600 J	3800 J	2500	2100 J	430000	0.080 UJ
	TMW16102016	10/28/16	890	3700	420	560	1100 U	420000	0.080 U
TMW17	TMW17042018	5/3/18	130 J	3700	74 J	500	850 J	440000	0.080 U
	TMW17102017	10/26/17	190 J	3400	85 U	520	940 U	430000	0.080 U
	TMW17042017	4/27/17	180 J	3600	51 J	530	890 J	440000	0.080 U
	TMW17102016	11/4/16	160 J	3800	80 J	470 J	1000 J	420000	0.080 U
TMW18	TMW18042018	4/25/18	490	6800	220 U	940	2900 J	690000	0.080 U
	TMW18102017	10/19/17	370	6900	150	1000	3200	690000	0.080 U
	TMW18042017	4/20/17	780 J	6600 J	370 J	1200	3200	640000	0.080 UJ
	TMW18102016	10/28/16	180 J	6600	90 J	1100	3600	680000	0.080 U
TMW19	TMW19042018	4/25/18	750	10000	320	1100	1300 J	700000	0.080 U
	TMW19102017	10/19/17	760	9600	380	1200	1300 J	720000	0.080 U
	TMW19042017	4/20/17	750 J	9000 J	350 J	1300	1200 J	670000	0.080 UJ
	TMW19102016	10/28/16	660	9300	330	1100	1400 J	650000	0.080 U
	DTW19102016 ^c	10/28/16	630	9900	270	1100	1500 J	680000	0.080 U
TMW30	TMW30042018	4/26/18	1300	52000	1200	12000	980 J	450000	0.080 U
	TMW30102017	10/25/17	1200	51000	920	11000	930 J	420000	0.080 U
	TMW30042017	4/19/17	590	52000	590	11000	1100 J	480000	0.080 U
	TMW30102016	10/26/16	1900	53000	1400 J	11000	1700 J	470000 J	0.080 U
TMW31D	TMW31D042018	5/2/18	70 U	70000	45 J	12000	1500 J	540000	0.080 U
	TMW31D042018FD ^c	5/2/18	70 U	71000	85 U	12000	1600 J	560000	0.080 U
	TMW31D102017	10/26/17	70 U	61000	85 U	11000	1500 U	570000	0.080 U
	TMW31D102017FD ^c	10/26/17	70 U	61000	85 U	12000	1700 J	560000	0.080 U
	TMW31D042017	4/27/17	70 U	68000	85 U	11000	1500 J	560000	0.080 U
	DTW31D042017 ^c	4/27/17	46 J	66000	30 J	11000	1400 J	540000	0.080 U
	TMW31D102016	10/31/16	70 U	70000	85 U	13000	2100 J	540000 J	0.080 U
	DTW31D102016 ^c	10/31/16	70 U	67000	85 U	12000	2000 J	520000 J	0.080 U
TMW32	TMW32042018	5/1/18	70 U	11000	85 U	1200	1300 U	680000	0.080 U
	TMW32102017	10/20/17	19 J	11000	85 U	1200	2900 J	670000	0.080 U
	TMW32042017	4/27/17	70 U	11000	85 U	1100	1000 J	740000	0.080 U
	TMW32102016	11/2/16	70 UJ	12000	85 U	1200	2000 J	750000	0.080 U
TMW36	TMW36042018	4/25/18	350	8100	200 U	880	1100 J	700000	0.080 U
	TMW36102017	10/19/17	350	8300	160	950	1100 J	680000	0.080 U
	TMW36042017	4/20/17	160 J	7900 J	150 UJ	1000	1200 J	670000	0.080 UJ
	TMW36102016	10/27/16	200 J	8700	120	910	1100 J	650000 J	0.080 U
TMW37	TMW37042018	4/25/18	710	5300	490	630	1000 J	560000	0.080 U
	TMW37102017	10/20/17	470	5600	450	730	2400 J	510000	0.080 U
	TMW37042017	4/20/17	540 J	5500 J	380 J	800	1100 J	540000	0.080 UJ
	TMW37102016	10/27/16	500	5800	390	690	1300 J	530000 J	0.080 U
TMW38	TMW38042018	5/1/18	45 J	19000	170	2000	1700 J	860000	0.080 U
	TMW38102017	10/26/17	37 J	14000	120 U	1800	1200 U	820000 J	0.080 U
	TMW38042017	4/26/17	290 J	17000	350	2100	6300	880000	0.080 U
	TMW38102016	11/4/16	70 UJ	17000	110	1800 J	2000 J	890000	0.027 J

Table 5-12: Summary of Total Metals Analytical Results - Method 6010C and 7470A (µg/L)

			Aluminum	Calcium	Iron	Magnesium	Potassium	Sodium	Mercury
			CAS	CAS	CAS	CAS	CAS	CAS	CAS
			7429-90-5	7440-70-2	7439-89-6	7439-95-4	7440-09-7	7440-23-5	7439-97-6
Well Name	Sample Identifier	Sample Date	Screening Value (ug/L) ^a						
			5000 ^b	NE	1000 ^b	NE	NE	NE	2 ^b
TMW39D	TMW39D042018	5/3/18	110 J	19000	57 J	1900	1200 J	750000	0.080 U
	TMW39D102017	10/27/17	31 J	18000	85 U	2100	1400 U	720000	0.080 U
	TMW39D042017	4/27/17	35 J	20000	27 J	2100	1300 J	740000	0.080 U
	TMW39D102016	10/31/16	70 U	22000	85 U	2700	1900 J	700000 J	0.080 U
TMW40D	TMW40D042018	5/1/18	70 U	15000	85 U	1900	1400 J	690000	0.080 U
	TMW40D102017	10/23/17	22 J	13000	85 U	1800	1500 J	680000	0.080 U
	TMW40D042017	4/25/17	19 J	14000	85 U	2000	4200	700000	0.080 U
	TMW40D102016	10/31/16	70 U	15000	85 U	2100	1800 J	700000 J	0.080 U
TMW48	TMW48042018	5/2/18	70 U	79000	85 U	14000	1400 J	570000	0.080 U
	TMW48102017	10/27/17	70 U	68000	85 U	14000	1900 J	590000	0.080 U
	TMW48042017	4/26/17	70 U	84000	85 U	16000	5100	580000	0.080 U
	TMW48102016	11/1/16	70 U	64000	85 U	12000	1800 J	590000	0.080 U
TMW49	TMW49042018	5/4/18	34 J	81000	23 J	14000	1400 J	600000	0.080 U
	TMW49102017	10/27/17	92 J	62000	85 U	12000	2000 J	650000	0.080 U
	TMW49042017	4/26/17	35 J	80000	85 U	14000	5000	600000	0.080 U
	TMW49102016	11/2/16	49 J	66000	85 U	11000	2600 J	670000	0.080 U

Notes:

^a Mercury is analyzed using EPA Method 7470A, and the remaining metals are analyzed using EPA Method 6010C/6020A.

^b New Mexico Water Quality Control Commission - NMAC 20.6.2.3103.

^c Indicates a field duplicate sample.

Bold indicates analyte was positively detected above screening values.

Acronyms and Abbreviations:

µg/L = microgram per liter

CAS = Chemical Abstracts Service (registry number)

CFR = Code of Federal Regulations

EPA = U.S. Environmental Protection Agency

J = (Estimated) The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to nonconformances discovered during data validation.

NE = not established

NMAC = New Mexico Administrative Code

U = (Non-detected) The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).

UJ = (Non-detected estimated) The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.

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Appendix A

Field Notes

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January 2018—Groundwater Elevation Measurements

1/11/18

Team Wilkerson, Branta

Kayla Copeland

Equipment Soundus (Schmidt tape)

Weather 25°F Sunny windy

0700 Leave ABA to Gallup

0930 Arrive on site, safety mtg. began
to decon new soundings

0945 OTIS - oversight arrived

1000 Loaded truck is headed out to
MW 23/24

1016 Arrive @ PZ 09

DTW = 16.44' btbl

Decon equip

1030 Arrive @ PZ 10

DTW = 20.10' btbl

Decon equip

1032 Arrive @ MW 34

DTW = 18.56' btbl

Decon equip

1040 Arrive @ MW 33

DTW = 15.39' btbl

Decon equip

1056 Arrive @ Bomw 63

DTW = 17.08' btbl

Decon equip

1107 Arrive @ PZ 06

DTW = 19.83' btbl

Decon equip

verified DTW from previous data,

double checked DTW

1113 Arrive @ PZ 05

DTW = 21.54'

decon equip

1/11/2018

1128 - Arrive @ B6mw81

DTW = 20.00' btoe

Decon equip

1135 Arrive @ TMW88

DTW = 20.09' btoe

Decon equip

1092 Arrive @ B6mw82

DTW = 22.03' btoe

Decon equip

1151 Arrive @ PZ07

DTW = 16.27' btoe

Decon equip

1152 Arrive @ PZ08

DTW = 20.32' btoe

Decon equip

1216 Arrive @ PZ02

DTW = 24.41' btoe

Decon equip

1222 Arrive @ PZ01

DTW = 26.02' btoe

Decon equip

1232 Arrive @ PZ03

DTW = 26.75' btoe

Decon equip

1241 Arrive @ PZ04

DTW = 29.38' btoe

Decon equip

1245 Arrive @ TMW26

DTW = 28.07' btoe

Decon equip

1259 Arrive @ SMW01

DTW = 32.37' btoe

Decon equip

32

1/11/2018

1302 Arrive @ TMW27

DTW = 28.79' btoe

Decon equip

1310 drove to trailer for gloves

- Hydration break

1323 Arrive @ TMW10

DTW = 38.77' btoe

Decon equip

1333 Arrive @ MW02

DTW = 41.73' btoe

Decon equip

1338 Arrive @ MW01

DTW = 23.14' btoe 43.44

Decon equip

1342 Arrive @ MW03

DTW = 46.96' btoe

Decon equip

1353 Arrive @ TMW33

DTW = 45.03' btoe

Decon equip

1357 Arrive @ TMW02 MW22

S DTW = 43.02' btoe

D DTW = 43.24' btoe

Decon equip

1405 Arrive @ TMW33

DTW = 44.93' btoe

Decon equip

1409 Arrive @ MW18 S/O

D DTW = 44.32' btoe

S DTW = 38.82' btoe

Decon equip

1420 Arrive @ MW00

DTW = 46.15' btoe

Decon equip

33

1/11/18

1425 Arrive @ Tmw 34
DTW = 46.34' btoe

Decon equip

1433 Arrive @ Tmw 46
DTW = 44.26' btoe

Decon equip

1441 Arrive @ Tmw 25
DTW = 39.37' btoe

Decon equipment

1452 Arrive @ Tmw 08
DTW = 37.74' btoe

Decon equipment

1458 Arrive @ Tmw 24
DTW = 38.09' btoe

Decon equip

1504 Arrive @ Tmw 45
DTW = 47.37' btoe

Decon equipment

1516 Arrive @ Tmw 23
DTW = 45.61' btoe

Decon equip

1525 Arrive @ Tmw 06
DTW = 47.71' btoe

Decon equip

1529 Arrive @ Tmw 07
DTW = 47.68' btoe

Decon equipment

1535 Arrive @ Tmw 03
DTW = 48.81' btoe

Decon equip

1531 Arrive @ Tmw 44
DTW = 53.17' btoe

Decon equip

34

1/11/18

1539 Arrive @ Tmw 47
DTW = 47.20' btoe

Decon equip

1545 Arrive @ Tmw 24
DTW = 56.89' btoe

Decon equipment

Pinched air line

1548 Arrive @ Tmw 36
DTW = 30.58' btoe

Decon equip

1554 Arrive @ Tmw 23
DTW = 57.75' btoe

Decon equip

1604 Arrive @ Tmw 01
DTW = 51.36' btoe

Decon equipment

1609 Headed back to trailer for paperwork.

1700 DEPART

35

1/12/18
Team: McKenzie, Kayla (driver)
Equipment: Solinst tape
Weather: 20°F Calm Sunny
Plan: Wrap up all water levels
0800: Arrive on site, Safety mtg.
0805: Loaded truck, took Safety mtg paperwork to Vanessa
0810: Left trailer
0820: Arrive @ TMW 19
DTW - 44.55' btoe
Decon equip
0826: Arrive @ TMW 18
DTW - 56.95' btoe
Decon equip
0833: Truck hit low clearance ditch assessed damage, no dash lights appeared front under carriage protector is bent.
0838: Arrive @ TMW 16
DTW - 58.20' btoe
Decon equip
0845: Arrive @ TMW 11
DTW - 69.65' btoe
Decon equip
0849: Arrive @ TMW 17
DTW - 65.13' btoe
Decon equip
0857: Arrive @ TMW 14A
DTW - 66.31' btoe
Decon equip
0908: Arrive @ TMW 15
DTW - 66.07' btoe
Decon equip

36

1/12/18
0917: Arrive @ TMW 37
DTW - 48.36' btoe
Decon equip
0922: Arrive @ TMW 31
DTW - 41.30' btoe
Decon equip
0928: Arrive @ TMW 31 S/D
D DTW - 40.68' btoe
Decon equip
S DTW - 40.40' btoe
Decon equip
0940: Arrive @ TMW 49
DTW - 47.20' btoe
Decon Equip
0949: Arrive @ TMW 30
DTW - 40.58
Decon equip
0954: Kayla calling pm, we noticed our back up solinst handle is broken from hitting ditch.
1002: Arrive @ TMW 48
DTW - 39.11' btoe
Decon equip
1010: Arrive @ TMW 35
DTW - 42.50' btoe
Decon equip
1016: Arrive @ TMW 13
DTW - 61.23' btoe
Decon equip
Excavation 30' South East of well
1023: Arrive @ TMW 38
DTW - 48.77 → 48.76' btoe
Decon equip

37

1/12/18

1030 Arrive @ TMW29
DTW - 58.09' btoe

Decon equip

1036 Arrive @ TMW43
DTW - 54.06' btoe

Decon equip

TMW42 3 TMW403/0 are within
fenced off excavation area.
gate is open, no operations are
currently active

1043 Arrive @ TMW62
DTW - 56.36' btoe

Decon equipment

1049 Arrive @ TMW 40 3/P
DTW - 35.55' btoe

decon equip

5 DTW - 60.20' btoe

Decon equip

1059 Arrive @ TMW41
DTW - 42.43' btoe

Decon equip

1105 Arrive @ TMW 39S
DTW - 37.54' btoe

Decon equip

1111 Arrive @ TMW 39P
DTW - 37.90' btoe

Decon equip

1122 Arrive @ FW35
DTW - 31.99

Decon equipment

1150 Arrive @ FW31
Road was closed - took detour

DTW - 43.10' btoe

Decon equipment

38

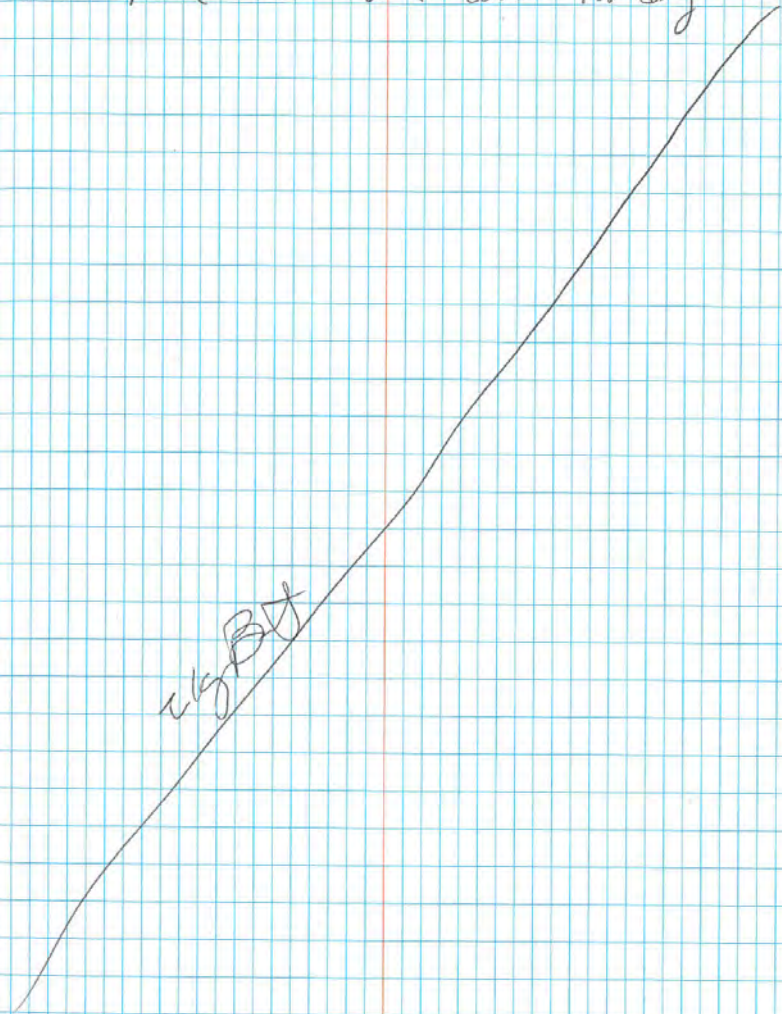
1/12/18

1211 Arrived @ trailer to unload.

1240 cleaned up and heading back to ABA

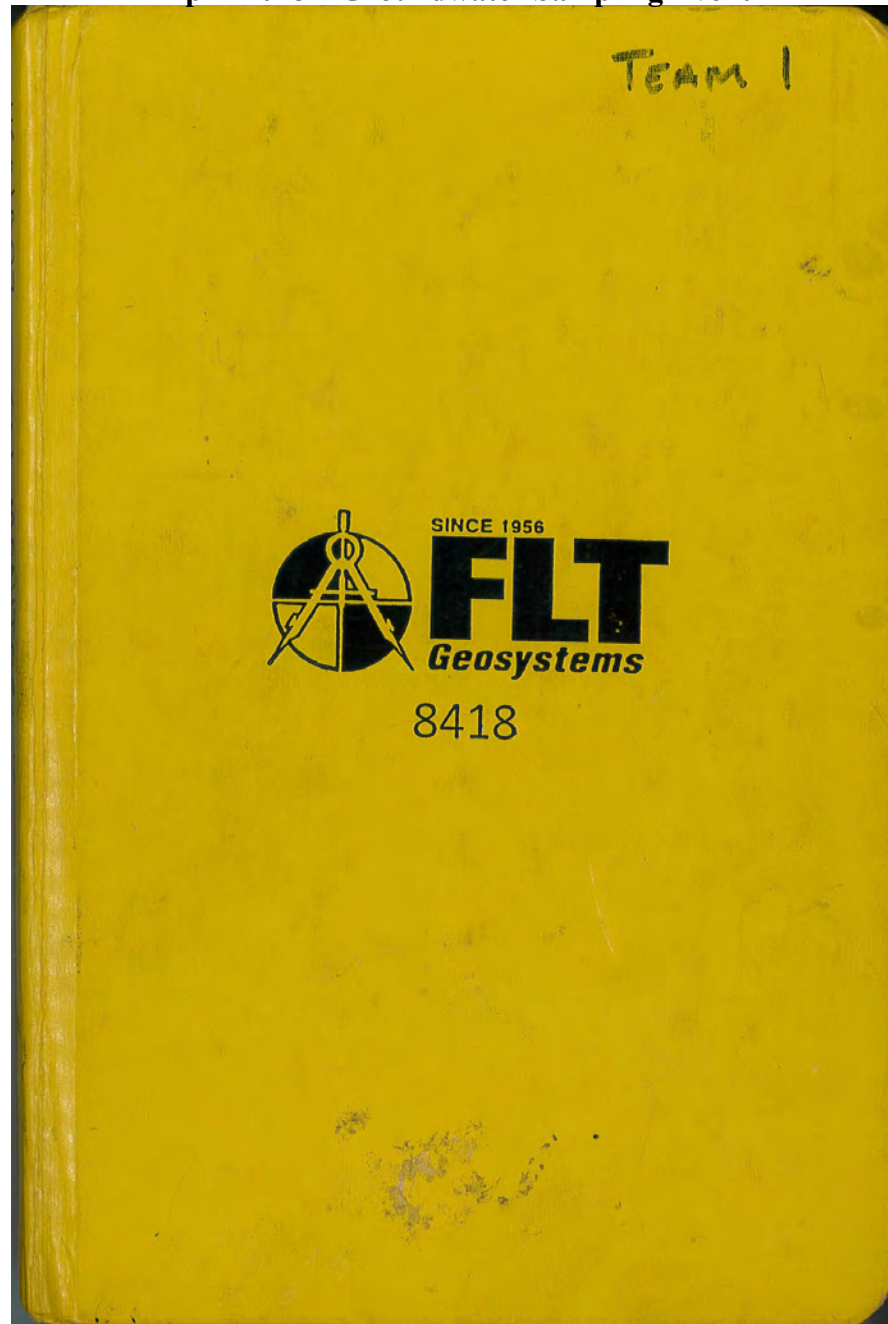
1500 Truck washed

1513 Arrive at lot. done for day

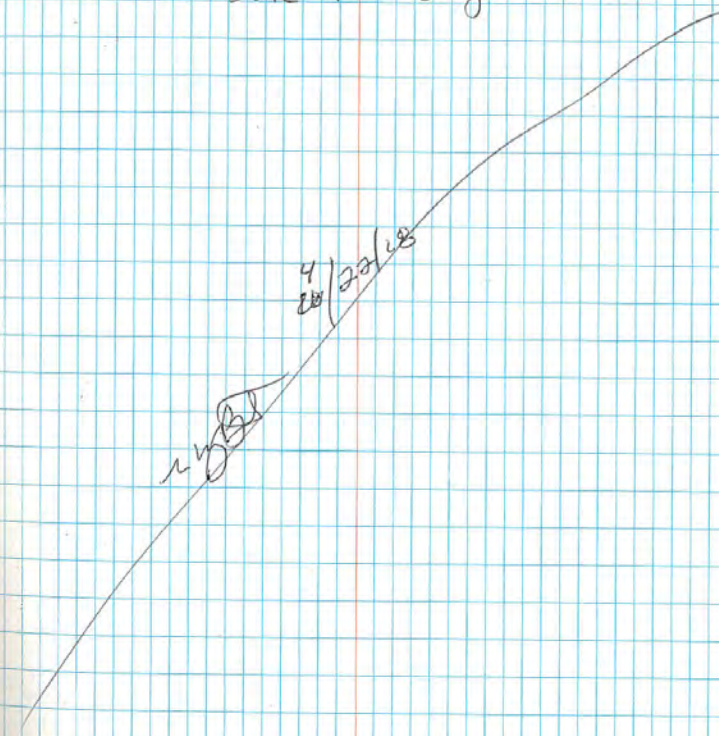


39

April 2018—Groundwater Sampling Event



Mac, Beth 4/22/18
Team - Mac, Beth, Shawn (USACE) Cliff
Plan - Water levels in exclusion zone (TNT beds)
Weather - Sunny, calm, cool
Equip - Solinst
1200 - Packing equipment
1273 Arrive @ TMW02
1305 COLLECTED WATER LEVELS @
TMW02, TMW04D15, TMW13, TMW32
and TMW36.
1310 COLLECT WATER LEVEL @ TMW10
1313 BACK @ TRAILER.
1630 Loaded equipment into piles
1645 OFF Site for day



51

4/23/18 Mac, Kristin

Weather: 55°, Sunny, Calm

Plan: Purge BGMW07

09:56 After placing pump/tubing down well, water level probe won't go down the well properly. We won't be taking many water level measurements.

New Plan: Pump 65 gallons from well

10:20 First Purge

1140 We don't have enough IDW Storage, Will pump as much out to fill IDW. cutoff is 1200 to sample wells

11:50 End Purge - 80L. total

storing Pump in black trash bag temporarily

1227 DTW Final 156.27

MW01

1252 Begin sampling

1350 Finished sampling

14:00 Back to trailer to pack samples/ make COCs

1530 - 1700 Kristin and Caleb bailed new well (BGMW08)

RE 4/23/18

4/24/18 Mac, Kristin

Team - Mac, Kristin, Cliff

Equipment - Barbers Horiba Reclaimer

Plan - Sample + Purge

Weather - 50°F, Sunny, Calm

0700 - on-site Safety mtg

0715 - Loading up

0750 - left for BGMW08

0814 - Sampling

0843 - Loaded up - left site

0853 - Arrive @ TMW10

0901 Sampling

0925 Dropped samples

0940 Arrive @ MW08 for partial

1004 Finished sampling MW08

Headed to BGMW08

only 1.03' of water in BGMW08

1040 @ TMW405 - Bailed dry @ 62.12' bdoc

1120 - dropping samples @ trailer

Packed coolers and shipped

1342 Arrive @ BGMW07 to continue

Purging.

Purged 23L - Control box broken

Leaving pump in well.

1646 decom equipment leaving well

1706 IDW

4/24/18

RE

4/25/18 Mac, Kristin 45°F, Sunny Calm

07:52: Arrive at BGMW08

- DTW: 185.25, < 6 in. to screen, no samples

08:00: Depart Well

08:07: Arrive at TMW40S

08:40: Depart well, Partial well sample.

08:48: Arrive at TMW22

09:22: Depart well, all samples taken.

09:28: Arrive at TMW44

10:11: Depart well, all samples taken.

10:17: Arrive at TMW39S

10:53: Depart well, all samples taken.

11:09: Arrive at TMW31S

11:54: Depart well, all samples taken.

11:56: Arrive at well, assist Dave and Kachina with samples.

12:25: Depart well, all samples taken.

List complete. Head back to trailer to pack coolers/COCs.

1340 Kristin, Luke 71°F, Sunny, windy

Plan - Grundfos well TMW30

1441 - completed purge, depart well.

4/25/18
#19

4/26/18 Mac, Caleb

Weather - 50°F, Sunny, Windy

Team - Mac, Caleb (1)

Equipment - LowFlow - Balvers

Plan - Sample CMW25, BGMW08, TMW40S
TMW30

0700 - Arrive on site, to Safety meeting

0720 - Safety meeting over, loading trailers

0800 - Left for CMW25

0820 - Arrive @ CMW25, set up LowFlow

0837 - First hanta reading

0848 - Sample time

1030 Finished sampling

1045 Arrive @ TMW30 to

Sample w/ Balver

1059 Sample time

1120 Headed to next well

1125 Arrive @ TMW40S

Partial Sample - Collected

Tot + diss Metals & Perc

1150 dropped off coolers

4/27/18

Team Mac, Caleb

Equipment Low Flow - Baller

Weather 45° F, Calm, Sunny

Plan - Low Flow two wells, Ball 1

0700 - Safety mtg

0715 - Safety mtg over

0720 - Loading trucks

0751 - Arrive @ Bgmw10

0804 - Sample

0844 - Arrive @ Bgmw01

Air line came off Swag Low
above cap, tried to replace, but
air line below cap broke also,
removed pump so both can
Rehib @ trailer

0910 - Arrive @ TMW08

1001 - Sample Time

1102 - Finished Sampling, Chelsea
on site. Left site, back to
Bgmw01

1114 - Arrive @ Bgmw01

1348 - Finished sampling

1400 - @ trailer loading up

1530 - Left to drop coolers

1655 - Loaded up Leaving for
week

Mckenzie Book
4/27/18

4/30/18

Team - Mac, Caleb

Equipment - Low Flow set up

Weather - 25 mph wind, Sunny, 40° F

Plan - Sample TMW25

0700 - Arrive on site, Safety mtg

0715 - mtg over, loading truck

0735 - Left trailer, grabbed ice

0750 - set up tmw25

0845 - Slow recharge, Almost doubled off time

0.05' Lower draw in 30 min.

1219 - finished Sampling

1220 - Arrive @ TMW08

1258 - Began Sampling

1345 - @ trailer to pack coolers

1500 - Dropping off coolers, met w/
Daisy Pate (Vance) to look @ cone
boxes from drilling

1700 - off site for day

Mckenzie Book

5/1/18

Team Mal, Calen

Weather 40°F wind 15-20 mph Sunny

Plan - sample TMW02 / TMW400

Equipment - Low Flow

0700 on site, safety meeting

0730 safety meeting over, loading up

0800 @ TMW02 to begin purge

0830 Both @ site for safety talk

about lift gate

0903 Sample

1000 Arrive @ TMW400, set up

begin low flow

1007 2nd well finished sampling

headed to pick up

more purge forms

1215 Arrive @ BGMW09

1234 Sample

sampled partial - still new

Herbicide + PCB

1313 Headed to trailer

1330 Arrive @ trailer, packing

3 filtering samples

1430 About to split teams 3

go to FedEx

530 off site for day

Calen

5/2/18

Team Calen, Mac

Weather 40°F, wind 5-10 mph NE, Rainy

Plan - Sample TMW45, TMW47, Finish BGMW09

Equipment - Low Flow; bailer for BGMW09

0700 on site, safety meeting

0730 safety meeting over, load up

0742 arrive @ TMW45, setup, begin low flow

0905 Sample time

1052 Arrive @ TMW47

1130 leave TMW47

1140 Arrive @ TMW31D, set up, begin low flow

1234 Begin sample collection

1348 leave TMW35

1355 Arrive @ trailer, pack samples, take to FedEx

Calen

5/4/18

Team Caleb Mack

Weather 30°F, snow flurries wind 10-15 S, P cloudy

Plan Sample TMW17, TMW22D

Equipment Low Flow

0700 on site, safety meeting, load trucks

0752 Arrive @ TMW17, setup for low flow

0913 Sample well

1054 Depart from TMW17

1104 Arrive @ MW22D 40

Resample N/N

1200 finished sampling headed
back to trailer

1315 back @ trailer

1320 Mac left to help team 4

1500 back @ trailer, wrapped up

1530 off site for day

~~5/4/18~~

5/4/18 Kristin, Luke

31°F Sunny

Plan: Low flow well TMW49

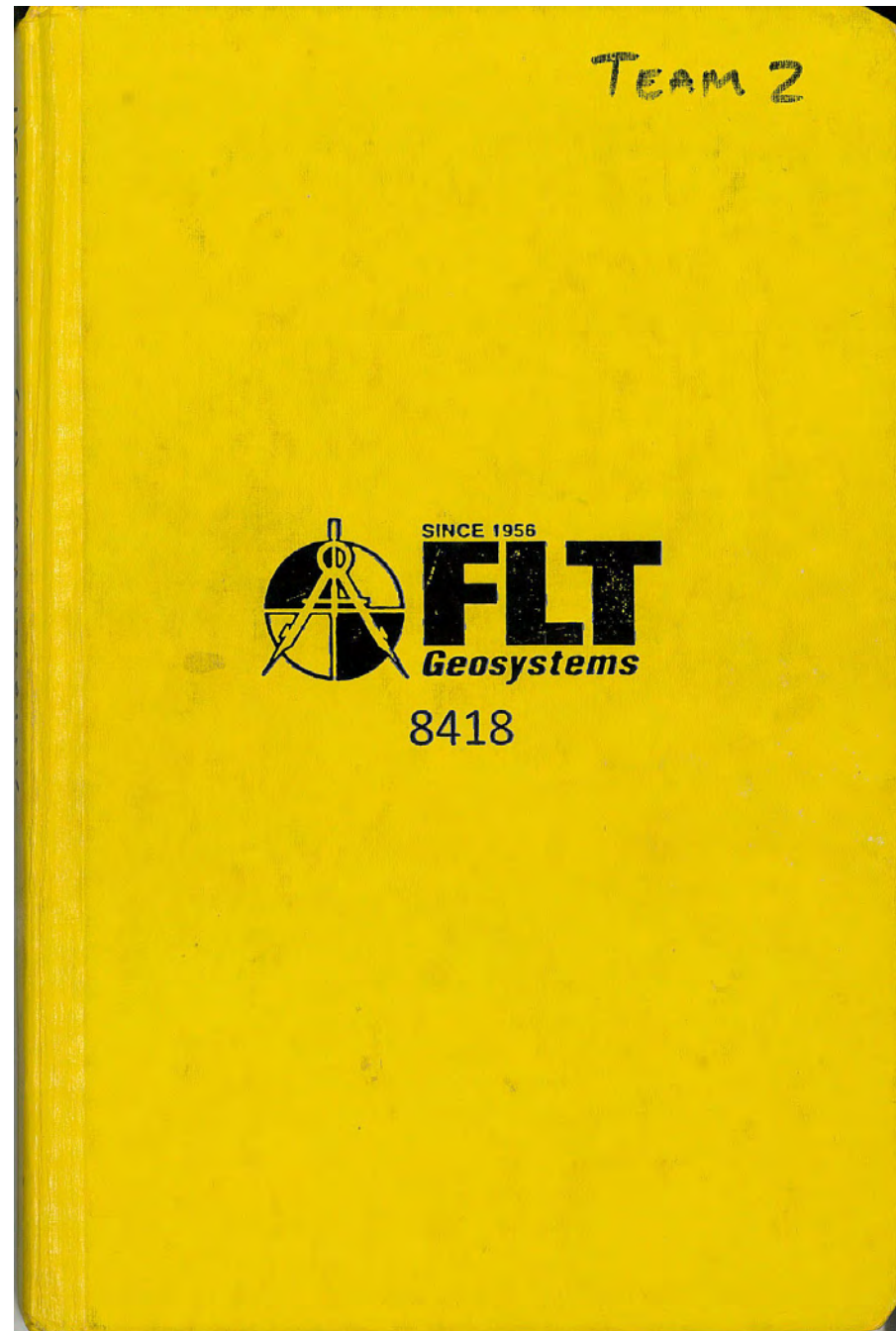
0746 - Arrive at well

0915 - Begin sampling

1108 - End sampling

1110 - Depart well, all samples taken

~~5/4/18~~



4/22/18 Luke, KRISTIN

~~0650~~

Sunny and clear 350

0700 Arrive onsite

0710 Safety Meeting and tailgate

0735 Leave Trailer to take water levels

0745 Arrive at TMW 22, Quick decor
Demonstration for KRISTIN.

0757 Leaving Well 22

0857 Arrive at well ~~TMW~~¹² TMW 43
↓ TMW 29

0905 Head Back to trailer to
pick up equipment

0919 Arrive at well TMW 16
↓
19 → 18 → 14A → 17 → 11

0950 5 minute break at well TMW 11

0955 Arrive at well ~~TMW~~ TMW 15
↓ TMW 37 → TMW 01 → TMW 3153D

1017 Arrive at TMW 3953D

Replaced plug at 390'

→ TMW 30 → TMW 49

1100 Meet Beth and Mac to discuss
progress

1113 Arrive at TMW 06307
→ FW 35 → TMW 25

1207 Leaving PZ05 to head back to trailer

1215 Meeting team 2 to check progress

Picking up well ^{TMW} 21 and TMW 08

43 Problems getting to TMW 08.

1220 Leaving Tmw08 → Tmw21
1227 Arrive at Trailer, Taking
a quick lunch
1250 Departing Trailer for Well
FW31.

1321 Arrive at well FW31
For Purging

1514 Heading to dump IDW

1534 Dump IDW

Tmw
08
old water levels

Tmw 210

1540 Arrive At Tmw08 for water
Levels.
- 37.67 ft. DTW

1600 Arrive at Tmw 46 for water
level. 44.48 ft DTW

1606 Arrived at trailer

1630 Gathered Equipment for
tomorrow

1645 Leaving Site

4/23/18

Team: Kachina and Dave

Weather: Sunny, light wind

Equipment: Hobas, regulator, Nitrogen tanks

Plan: Sample sentinel wells MW23 and MW24

0700 Safety meeting

0740 Remove shell from truck

0800 Go to Big Mike's for nitrogen and hose piece

0850 Load truck

0915 Arrive @ MW24

Sample

1100 Arrive @ MW23

Purge well only

1545 Return to trailer

1610 Dump IDW

1628 Unload IDW tote and nitrogen tanks

Take apart coolers and prep

Help other teams unload

1715 Leaving site

Ky

4/24/18

Team: Kachina and Dave

Weather: Sunny, 10mph wind, 70°F

Equipment: Horizon, water level meter, regulator

Plan: Sample MW23 and purge 5 other wells

0700 Safety meeting

0800 Arrive @ MW23

Sample

0925 Return to trailer to drop samples

0952 Arrive @ TMW 36, purge dry

1100 Arrive @ TMW 37

Purge dry

1145 Arrive @ TMW 16

Purge dry

1245 Arrive @ TMW 18

Purge dry

1321 Arrive @ TMW 19

Purge dry

~~1400 Return to~~

1430 Return to trailer

1445 Dump IDW

1503 Unload equipment

1515 Breakdown coolers

Prep bottles for tomorrow

1645 Leave site

LS

41.

4/25/18

Team: Kachina and Dave

Weather: Sunny, light breeze

Equipment: Horizon, water level meter, regulator, nitrogen tanks

Plan: Sample all Bannet wells purged yesterday

0700 Safety meeting

0800 Arrive @ TMW 36

Sample

0832 Arrive @ TMW 37

Sample

0912 Arrive @ TMW 16

Partial sample

~~0955 Arrive @ TMW~~

~~1000~~

0950 Arrive @ TMW 18

Partial sample

1035 Arrive @ TMW 19

Sample

1040 Return to trailer, drop samples

1145 Arrive @ TMW 41

Sample

1230 Arrive @ TMW 18

Finished sampling

1318 Return to trailer

Drop off samples

Prep coolers / pinch CC

1400 Kachina off site, Mac booth teamed w/

Dave.

1430 Arrive @ BMW 07, began purging.

1630 Switched N tanks

1700 Beth on site, ran out of N.

1730 New N tanks, Purged

1800 Stopped purging @ 217'. Need to be off site @ 1830

1830 off site for day

47

4/26/18 Kristin, Dave
45°F, Sunny, calm

08:03 Arrive at well Tmw27
Plan - Low Flow
0951 Depart well, all samples taken
0957 Arrive at SMWD1
Plan - Low flow
1230 Depart well, all samples taken
1235 Arrive at well Tmw26
Plan - Low flow
72°F Sunny, windy
1350 Depart well, all samples taken
1450 Arrive at well MWD2
Plan: Bail/Purge
1700 Depart well, dry

4/26/18
JLH

4/27/18 Kristin, Dave
45°F Sunny, windy

0745 Arrive at well Tmw40S
Plan: Take partial remaining samples
0816 Depart well, partial samples taken
0828 Arrive at MWD2
Plan: Get replacement QOS6 sample
0838 Depart well, replacement sample taken
0843 Arrive at MWD3
Plan: Low Flow
1042 Depart well, all samples taken
1050 Arrive at well Tmw35
Plan: Low Flow
1329 Depart well, all samples taken

4/27/18
JLH

4/30/18 Kristin, Dave
48°F, Sunny, Windy

0751 - Arrive at well TMW24
Plan - Low Flow
0955 - Begin sampling
1227 - Depart well, all samples taken
1254 - Arrive at well TMW21
Plan - Bail until dry
1402 - Depart well, bailed until dry.

4/30/18
KJ

5/1/18 Kristin, Dave
45°F Sunny, windy

0810 - Arrive at well TMW38
Plan: Low flow
notable: located in Zapata area
between 2 large dirt piles.
0940 - Begin sampling
1309 - Depart well, all samples taken

5/01/18
KJ

5/02/18 Kristin, Dave

38°F, Rainy

Plan - Low Flow TMW43 and TMW04

0745 - Arrive at TMW43

0807 - Begin sampling

1021 - End sampling

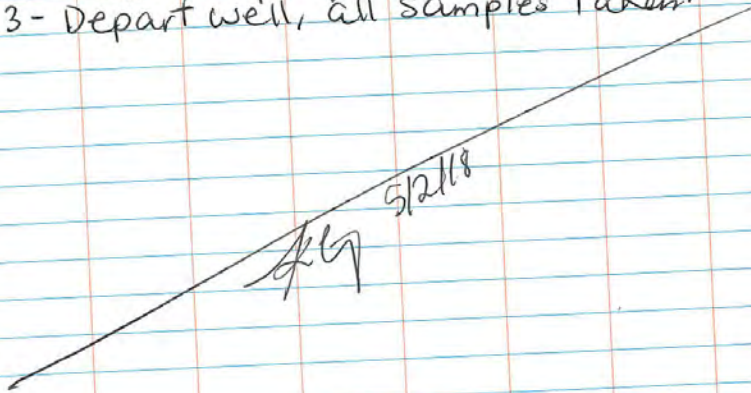
1025 - Depart well, all samples taken

1041 - Arrive at well TMW04

1114 - Begin sampling

1209 - End sampling

1213 - Depart well, all samples taken.


5/2/18

5/03/18 Kristin, Dave

35°F, Cloudy

Plan - Low flow TMW14A and TMW39D

0752 - Arrive at TMW14A

0925 - Begin sampling

1102 - End sampling

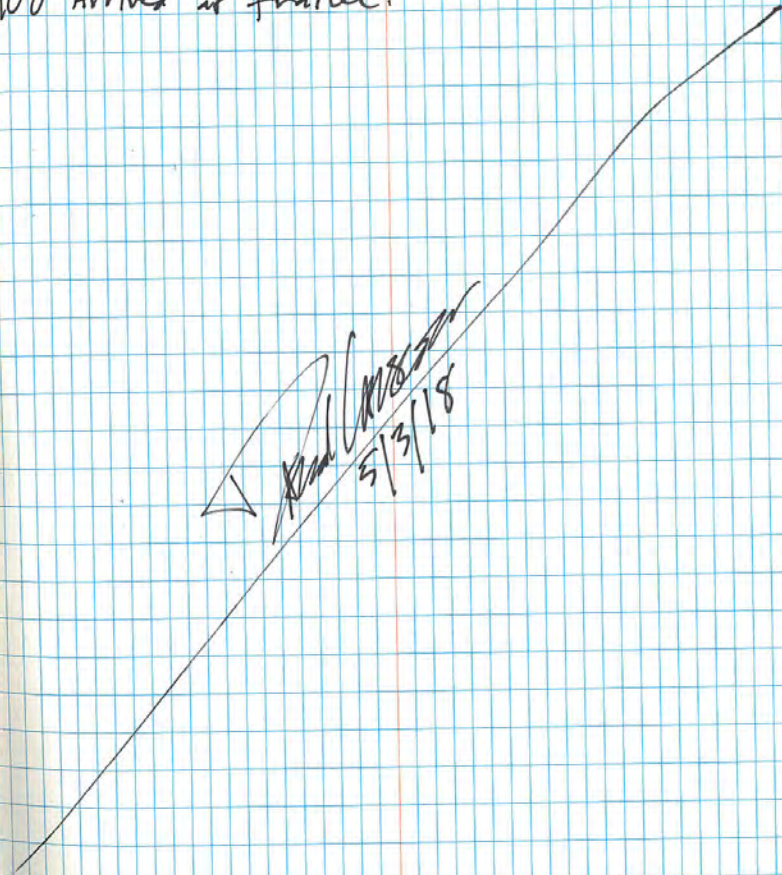
1104 - Depart well, all samples taken

1123 - Arrive at TMW39D

1227 - Begin sampling

1332 - End sampling, departing TMW39D

1400 - Arrived at trailer.


5/3/18

5/4/18

Team: Caleb and Kachina

Weather: Sunny, light wind, 35°F

Equipment: Horizon, regulator, control box

Plan: Sample TMW01

0650 Safety meeting

0720 Calibrate Horizon and load equipment

0746 Arrive @ TMW01, sample

0940 Return to trailer

 Rip coders

 Clean up

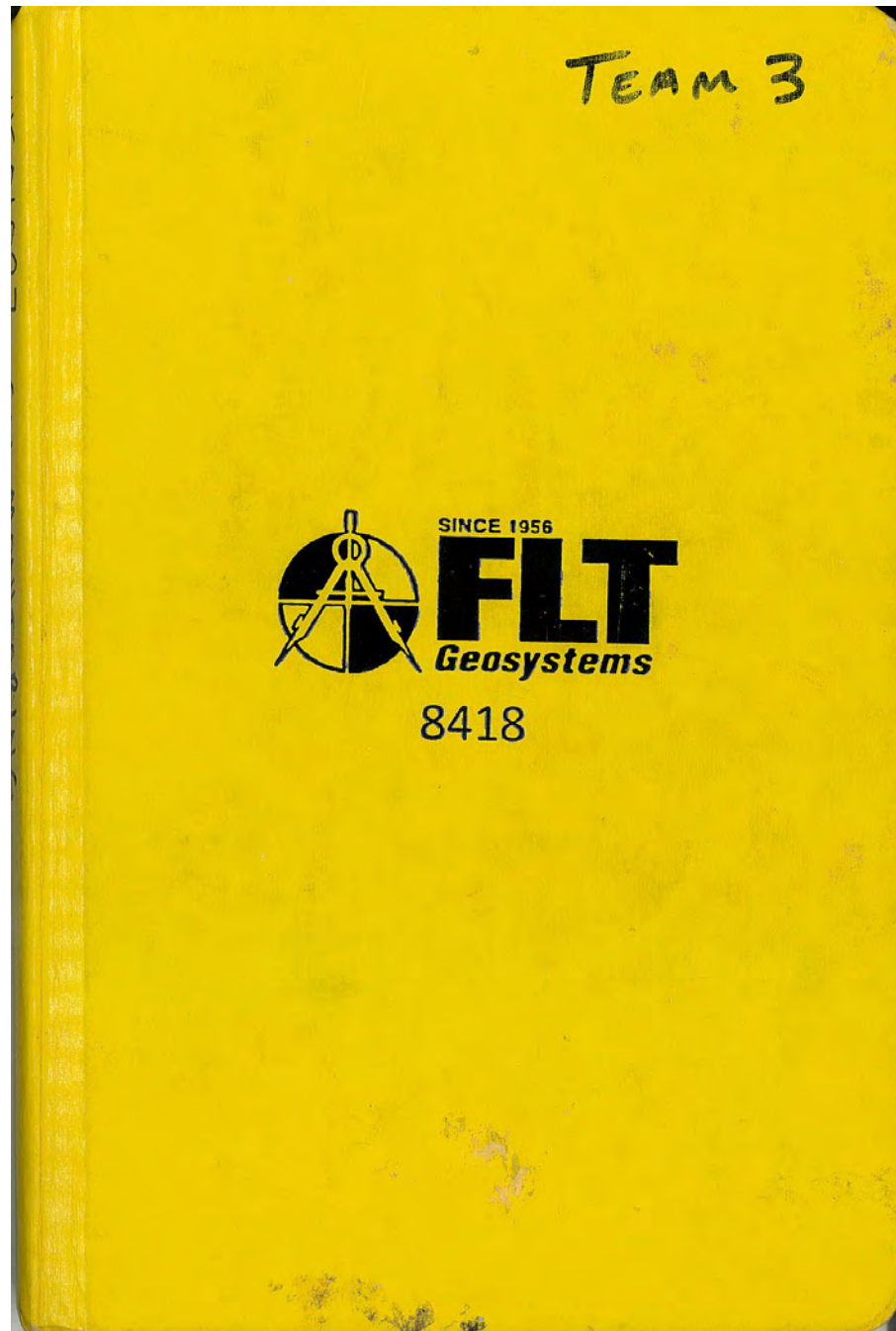
 Pack Horizons

 Inventory

1200 leave site

[Signature]

54



4/22/17

Team 1: Kuchina, Calab

Equipment: Water level meter

Weather: Sunny, light wind

Plan: Take water levels for Northern area wells

0700 Safety meeting

0743 Arrive @ MW23

WL = 15.81'

0758 Arrive @ MW24

WL = 19.79'

0810 Arrive @ PZ09

WL = ~~15.80~~ 15.80'

0817 Arrive @ PZ10

~~0817~~ WL = 19.66'

0835 Arrive @ BGMW02

WL = 21.62'

0840 Arrive @

WL = 19.93'

0850 Arrive @ PZ07

WL = 16.81'

Arrive @ PZ08

WL = 20.17'

0903 Arrive @ BGMW07

WL = 36.61'

0909 Arrive @ BGMW01

WL = 19.78'

0921 Arrive @ PZ03

WL = 23.61'

Arrive @ PZ02

WL = 24.93'

Arrive @ PZ01

WL = 28.08'

0949 Arrive @ TMW27

WL = 28.64'

0952 Arrive @ SMW01

WL = 32.19'

1005 Leaving SMW01 truck problem, metal/plastic
guard on undercarriage loose
Mac assisting

1029 Arrive @ TMW26

WL = 28.03'

1035 Arrive @ PZ04

WL = 31.04'

1040 Mac and Beth came back to help w/ truck
Removed skid plate

1113 Arrive @ MW02

WL = 41.76'

1120 Arrive @ MW07

WL =

1130 Arrive @ MW03

WL =

1140 Arrive @ ~~TMW08~~ TMW10

WL = 38.72'

1150 Arrive @ TMW08

Key did not work in gate to access TMW08

1156 Arrive @ TMW35

WL = 45.01'

1159 Arrive @ TMW33

WL = 44.97'

1204 Arrive @ MW22

MW22D WL = 43.19'

MW22S WL = 43.10'

1210 Arrive @ MW18

1219	Arrive @ MW20
	WL = 46.10'
1226	Arrive @ TMW34
	WL = 46.29'
1240	Arrive @ TMW46
	WL = 44.56'
1300	Arrive @ TMW25
	WL = 39.26'
1315	Arrive @ TMW07
	W = 47.14'
	Arrive @ TMW06
	WL = 47.69'
1324	Arrive @ TMW23
	WL = 46.69'
1330	Arrive @ TMW45
	WL = 47.16'
1334	Arrive @ BG MW09
	WL = 115.19'
1338	Arrive @ BG MW08
	WL = 79.36'
1346	Arrive @ TMW24
	WL = 37.96'
1351	Return to trailer for further instruction
1405	Arrive at MW02
	Bail dry
1432	Arrive @ MW01
	Bail dry
1450	Return to trailer
1515	Arrive at TMW29
	Bail dry
1545	Return to trailer
	Prep equipment for tomorrow

12/3/2018 Luke and Caleb
38° and Sunny

0700 Arrive @ A-site
0705 Safety Tailgate and Briefing
0730 Load trucks
0815 Equipment Block
~~0835~~ LE ~~0835~~
0900 Arrive at BG MW03
0908 IWL = 16.65/266
1012 Arrive at well TMW10 TMW10 had
2 & 4' Fair Amount
of sediment
1150 Stop at IDW tank to empty IDW water
1215 Arrive at well FW31
1220 Begin sampling well FW31
1225 Depart from well FW31
1304 Arrive @ well MW02
1359 Arrive at trailer
1400 Caleb's Field Filtering and
Luke Sampled well TMW29
with Mac
1430 Luke grabbing ICP
1551 Caleb's Kristin G arrived @ BG MW08
1655 Bailed well dry, depart from BG MW08
1730 OFF SITE

4/24/2018 Luke and Caleb
38° and Sunny

- 0700 Arrive on Site
- 0705 - Safety Meeting and tailgate
- 0710 Caleb is calibrating Moriba and Luke is loading Truck
- 0745 Depart trailer for well Tmw46
- 0752 Arrive at Tmw46
Moriba did not calibrate, both recommended using as is
- 0800 Grundfos Showing desaturation error
↳ Attempting to troubleshoot
- 0825 Grabbing another Grundfos box to replace issue
- 0835 New Grundfos doesn't show error
Began pumping well Tmw46 at
- 0939 Arrive At MW18D
- 1026 Arrive at well 33 to purge
- 1113 Finish at well 33, heading to dump IDW
- 1128 Arrive @ Sundance trailer for more decon water
- 1138 Arrive At Tmw07
↳ Taking a quick lunch break
- 1150 Done with Break.
- 1232 Arrive at Tmw23
- 1302 Heading to trailer for more Tubing
- 318 Arrive At well Tmw22
- 1352 Arrive at Tmw44
- 1441 Arrive at Tmw39s
- 1514 Arrive at evap tank to dump IDW water
- 1523 Arrived at 31s
- 1605 Arrive at Tmw41
- 1648 Going to dump IDW
- 1700 Arrive at trailer

Cathy Jennings

4/25/2018 Luke and Caleb
35° and Sunny

- 0700 Arrive onsite For Safety Tailgate and debriefing
- 0730 Load truck for sampling
- 0749 Arrive at Tmw46 For sampling
- 0838 Arrive at well MW18D
- 0921 Arrive at Tmw33
- 1000 Arrive at Tmw07
- 1045 Arrive at Tmw27
- 1128 Finished sampling, heading to Trailer
- 1145 Caleb Field Filtering and Luke is picking up ice in Gallup
- 1215 Returned with ice to load sample coolers
- 1300 Return Excess ice to cooler
- 1350 get Trucks loaded for purging
- 1400 Caleb is dropping samples at Fed ex. Luke is switching teams to Purge with knister

4/26/18

Team: Luke and Kachina

Weather: Sunny

Equipment: Horiba, control box, converter, scuba tanks

Plan: Low flow sample BGMW02 and TMW28

0700 Safety meeting

0720 Calibrate horiba and load equipment

0820 Arrive @ BGMW02
Sample

1230 Arrive @ TMW28
Sample

1342 Head back to trailer

1351 Pack coolers

1400 Team - Mac + Kachina, loaded up
to Purge BGMW10

1445 Arrive @ BGMW10 with reclaimer
pump began setting up

1520 began pumping

1755 Well is dry, less than 6" in screen,
Kristin + Dave came out to
help clean up

1805 headed to dump IDW with
Luke + Caleb

1815 Arrive @ trailer, unpack equipment

1820 Left site for day

Mokene BSR
4/26/18

4/27/18

Team: Luke and Kachina

Weather: Sunny, windy,

Equipment: Grundfos, horiba, control box, generator

Plan: Sample wells

0700 Safety meeting

0720 Calibrate horiba and load equipment

0745 Arrive @ TMW10
Resample nitrate/nitrite TMW100420182

0805 Arrive @ BGMW03
Resample nitrate/nitrite BGMW030420182

0820 Arrive @ TMW34
Purge 3 casing volumes
Sample

0945 Return to trailer

0950 Equipment blank
Prep for low flow sampling of MW22D

1053 Arrive @ MW22D
Sample

1415 Return to trailer
Pack coolers and unload trucks

1530 Take coolers to FedEx

1620 Leave site

4/27/18

1/31/2018 Luke and Beth
48° Sunny but gusty
0700 Arrive on site for safety
tailgate.
- Know where first aid kits
are located
0715 Load trucks for sampling
and calibrate monitor
0800 Arrive at well MW20 for
sampling.
- Water was very foamy
when filling bottles
1130 Sampling complete at MW20
1146 Arrive at Tmw3 for sampling
1335 Sampling complete, going to
dump IDW.
1346 Arrive back at trailer
1355 ~~Help~~ Dave switch out with
Kristin to help Dave bail
well dry → Tmw21.
1405 Back at trailer to load
and tape sample coolers
1445 Unload trucks and gather
equipment for tomorrow.

5/1/2018 Luke & Kristina
0700 Arrive on-site ~~for~~ for safety
meeting.
0750 Calibrate monitor and load equipment
0820 Arrive @ Tmw3, sample
1015 Arrive @ Tmw32
Sample
1130 Return to trailer, grab supplies
1215 Arrive @ 21
Sample
1245 Return to trailer
Pick coolers
Rein equipment blank
Unload trucks
1430 Leave site

Team: Luke and Kachin

Weather: Overcast, rainy, 30°F, high winds, snow

Equipment: Horiba, control box, regulator, W.L. meter

Plan: Sample TMW11, TMW17, and TMW48

0700 Safety meeting

0710 Calibrate Horiba and load equipment

0745 Arrive @ TMW11

Sample

1139 Arrive @ TMW48

1250 Grab IDW from Marc

Dump IDW

1310 Return to trailer

Prep coolers and unload trucks

1430 Head to FedEx

Kg

Team: Luke and Kachin

Weather: Partly cloudy, light wind, 36°F

Equipment: Horiba, control box, regulator, W.L. meter

Plan: Sample BGMW09 and TMW47

0700 Safety meeting

0728 Calibrate Horiba and load equipment

0745 Arrive @ TMW47

Sample

1125 Arrive @ BGMW09

Sample partial to complete suite

1143 Dump IDW

1146 Return to trailer

1203 Arrive @ TMW15, sample

1432 Return to trailer

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Appendix B
Groundwater Sampling Field Data Sheets

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 Sundance Consulting Inc.	PROJECT NUMBER US01027-0002AC		WELL ID FW31		LOCATION Northern Area Alluvial				
	GROUNDWATER SAMPLING FIELD DATA SHEET								
	FORT WINGATE DEPOT ACTIVITY								
	LOCATION DESCRIPTION: NW of town of Fort Wingate								
WEATHER (wind/temp): 65°F, Sunny, Windy									
OTHER NOTABLE FIELD CONDITIONS: N/A									
INITIAL DEPTH TO WATER		PURGE VOLUME CALCULATION		TOTAL DEPTH OF WELL		SCREENED INTERVAL		RECOMMENDED PUMP SETTINGS	
43.01 ft btoc		14 gal		52.0 ft		10.0-50.0 ft		Bail	
METHOD OF PURGING: Casing volume / Bail				INITIAL ORGANIC VAPOR METER READINGS: N/A				ACTUAL FIELD PUMP SETTINGS	
DISPOSITION OF DISCHARGE WATER: Discharged to evaporation pond								Bail	
MONITORING EQUIPMENT USED: Horiba U-52									
Well Purging Information									
Date 4/22/2018	DTW (ft)	Total volume (L)	± 10% Temp (°C)	± 0.5 pH	± 10 ORP (mV)	± 10% Conductivity (mS/cm)	± 10% or <1 Turbidity (NTU)	± 10% or <1 DO (mg/L)	Remarks (color, odor, sheen, sediment, etc.)
1338	43.01	-	20.13	6.39	358	1.90	209	11.21	
1345	43.89	-	20.13	6.39	358	1.90	209	11.21	KG
1350	44.50	-	18.17	7.94	252	1.08	176	7.44	
1354	45.45	-	15.64	7.99	252	2.00	50.7	7.95	
1400	46.56	-	16.89	7.89	230	1.31	209	8.25	
1413	47.59	-	15.89	8.36	221	2.06	78.5	6.41	
1422	48.91	-	15.95	8.53	209	2.13	254	6.84	
1428	49.65	-	15.78	8.50	200	2.08	492	8.05	
1437	50.37	-	15.45	8.54	195	2.09	371	4.10	
1452	51.08	-	-	-	-	-	-	-	
1457	51.33	-	15.65	8.56	184	2.07	524	5.50	
1502	51.29	-	-	-	-	-	-	-	
4/23/18									
1220	46.50	-	18.13	9.19	208	1.85	161	5.84	
Sample Information									
SAMPLE ID(s):		FW31042018		DUPLICATE/MATRIX SPIKE SAMPLE ID(s):			None		
SAMPLE DATE:		4/23/2018		SAMPLE TYPE:			Grab		
SAMPLE TIME:		1220		SAMPLE MATRIX:			Groundwater		
SAMPLING METHOD: Hand bail				FIELD PARAMETERS: See last measurement					
SAMPLER'S NAMES: Luke Beasley, Caleb Jennings									
NOTABLE OBSERVATIONS (color, odor, sand, etc.): N/A									
Collected?	No.	Sample Containers Volume/Type		Preservatives (ice, acids, bases, others)		Analytical Method		Laboratory	
Yes	3	40-ml glass VOA		HCl		VOCs		EPA8260C	
Yes	2	500-ml Amber glass		ice		Explosives		EPA 8330B	
Yes	1	500-ml Poly		ice		NO2/NO3		EPA 9056	
Yes	1	500-ml Poly		HNO3		Tot. Metals		6010C/6020A/7470A	
Yes	1	500-ml Poly		HNO3 - Field Filter		Dis. Metals		6010C/6020A/7470A	
Yes	2	1-L Amber glass		ice		SVOCs		EPA 8270D	
Yes	2	1-L Amber glass		ice		Pesticides		EPA 8081A	



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 Sundance Consulting Inc.	PROJECT NUMBER US01027-0002AC		WELL ID MW02		LOCATION Northern Area Alluvial				
	GROUNDWATER SAMPLING FIELD DATA SHEET								
	FORT WINGATE DEPOT ACTIVITY								
	LOCATION DESCRIPTION: Flush mount to the east of the car port next to the firehouse								
WEATHER (wind/temp): 60's, Sunny, 5-10mph breeze									
OTHER NOTABLE FIELD CONDITIONS: N/A									
INITIAL DEPTH TO WATER		PURGE VOLUME CALCULATION		TOTAL DEPTH OF WELL		SCREENED INTERVAL		RECOMMENDED PUMP SETTINGS	
41.73 ft btoc		7 gal		49.45 ft btoc		39.5-49.5 ft		Hand bail	
METHOD OF PURGING: Casing volume / hand bail				INITIAL ORGANIC VAPOR METER READINGS: N/A				ACTUAL FIELD PUMP SETTINGS	
DISPOSITION OF DISCHARGE WATER: Discharged to evaporation pond								Bail	
MONITORING EQUIPMENT USED: Horiba U-52									
Well Purging Information									
Date 4/22/2018	DTW (ft)	Total volume (L)	± 10% Temp (°C)	± 0.5 pH	± 10 ORP (mV)	± 10% Conductivity (mS/cm)	± 10% or <1 Turbidity (NTU)	± 10% or <1 DO (mg/L)	Remarks (color, odor, sheen, sediment, etc.)
1415	41.73	1.00	16.91	7.19	352	2.19	53.0	5.68	
1420	-	6.25	15.85	7.14	343	2.35	657	5.38	
1425	49.05	-	-	-	-	-	-	-	Dry
4/23/2018									
1327	41.97	-	-	-	-	-	-	-	
4/24/2018									
0941	42.10	-	-	-	-	-	-	-	
0957	-	4.00	18.17	8.37	115	3.22	328	10.78	
4/26/2018									
1654	44.76	2.00	-	-	-	-	-	-	
1700	49.05	4.00	-	-	-	-	-	-	Dry
4/27/2018									
0829	42.33	-	-	-	-	-	-	-	Resample Nitrate/Nitrite
									Resampled Date/Time 4/27/18 0832
									Resample ID: MW020420182
Sample Information									
SAMPLE ID(s):		MW02042018				DUPLICATE/MATRIX SPIKE SAMPLE ID(s):		None	
SAMPLE DATE:		4/23/2018				SAMPLE TYPE:		Grab	
SAMPLE TIME:		1336				SAMPLE MATRIX:		Groundwater	
SAMPLING METHOD: Hand bail				FIELD PARAMETERS: See last measurement					
SAMPLER'S NAMES: Luke Beasley, Caleb Jennings									
NOTABLE OBSERVATIONS (color, odor, sand, etc.): N/A									
Collected?	No.	Sample Containers Volume/Type		Preservatives (ice, acids, bases, others)		Analytical Method		Laboratory	
Yes	3	40-ml glass VOA		HCl		VOCs		EPA8260C	
Yes	3	40-ml glass VOA		HCl		TPH-GRO		EPA 8015C	
Yes	2	500-ml Amber glass		ice		Explosives		EPA 8330B	
Yes	1	500-ml Poly		ice		NO2/NO3		EPA 9056	
Yes	1	500-ml Poly		HNO3		Tot. Metals		6010C/6020A/7470A	
Yes	1	500-ml Poly		HNO3 - Field Filter		Dis. Metals		6010C/6020A/7470A	
Yes	1	125-ml Poly w/Syringe		ice - Field Filter		Perchlorate		EPA 6860	
Yes	2	1-L Amber glass		ice		Pesticides		EPA 8081A	
Yes	2	1-L Amber glass		ice		TPH-DRO		EPA 8015C	



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 Sundance Consulting Inc.	PROJECT NUMBER US01027-0002AC		WELL ID MW22D		LOCATION Northern Area Alluvial				
	GROUNDWATER SAMPLING FIELD DATA SHEET								
	FORT WINGATE DEPOT ACTIVITY								
	LOCATION DESCRIPTION: North of Well TMW33								
WEATHER (wind/temp): Sunny, 70°F, light wind									
OTHER NOTABLE FIELD CONDITIONS: N/A									
INITIAL DEPTH TO WATER		PURGE VOLUME CALCULATION		TOTAL DEPTH OF WELL		SCREENED INTERVAL		RECOMMENDED PUMP SETTINGS	
43.19 ft btoc		14 gal		58.70 ft btoc		48 - 58 ft		4 sec on, 20 sec off, 30 psi, 175 mL/min	
METHOD OF PURGING: BESST low flow				INITIAL ORGANIC VAPOR METER READINGS: N/A				ACTUAL FIELD PUMP SETTINGS	
DISPOSITION OF DISCHARGE WATER: Discharged to evaporation pond				30psi, 4on, 21off, 110mL/min					
MONITORING EQUIPMENT USED: Horiba U-52									
Well Purging Information									
Date 4/27/2018 Time	DTW (ft)	Total volume (L)	± 10% Temp (°C)	± 0.5 pH	± 10 ORP (mV)	± 10% Conductivity (mS/cm)	± 10% or <1 Turbidity (NTU)	± 10% or <1 DO (mg/L)	Remarks (color, odor, sheen, sediment, etc.)
1115	43.19	1.50	18.33	7.48	151	5.14	0.0	7.97	4.5on, 20off, 152mL/min
1120	-	2.00	18.22	7.48	152	5.09	0.0	3.21	
1125	-	3.00	17.50	7.46	159	4.96	0.0	0.83	
1130	-	3.50	17.28	7.44	162	4.92	0.0	0.73	
1135	-	4.00	17.17	7.41	165	4.88	0.0	0.47	
1140	-	5.00	17.24	7.39	168	4.77	0.0	0.36	Start sampling
5/3/2018									
1107	43.21	-	-	-	-	-	-	-	3.5on, 25off, 30psi, 70mL/min
1122	43.21	0.25	14.23	7.22	-32	7.05	0.0	0.00	
1131	43.22	1.00	14.53	7.27	-13	5.70	0.0	0.00	4on, 21off, 110mL/min
1140	43.22	2.00	14.58	7.28	3	5.11	0.0	0.00	taking readings every 6min now from increased flow
1146	43.22	2.50	14.52	7.28	10	4.92	0.0	0.00	
1152	43.22	3.00	14.47	7.29	17	4.77	0.0	0.00	
1158	43.22	3.50	14.57	7.28	22	4.69	0.0	0.00	
1204	43.22	4.00	14.79	7.27	31	4.63	0.0	0.00	
1210	43.22	4.50	14.79	7.27	34	4.62	0.0	0.00	Resample Nitrate/Nitrite
1216	43.22	5.00	14.83	7.29	38	4.60	0.0	0.00	Resampled Date: 5/3/2018
									Resampled Time: 1217
									Resample ID: MW22D0420182
Sample Information									
SAMPLE ID(s):		MW22D042018		DUPLICATE/MATRIX SPIKE SAMPLE ID(s):		MW22D042018MS, MW22D042018MSD			
SAMPLE DATE:		4/27/2018				SAMPLE TYPE: Grab			
SAMPLE TIME:		1140				SAMPLE MATRIX: Groundwater			
SAMPLING METHOD: Low flow by dedicated Blatypus pneumatic pump						FIELD PARAMETERS: See last measurement			
SAMPLER'S NAMES: Kachina Ganz, Luke Beasley									
NOTABLE OBSERVATIONS (color, odor, sand, etc.):									
Collected?	No.	Sample Containers Volume/Type		Preservatives (ice, acids, bases, others)		Analytical Method		Laboratory	
Yes	3	40-ml glass VOA		HCl		VOCs	EPA8260C	Test America- St Louis	
Yes	3	40-ml glass VOA		HCl		TPH-GRO	EPA 8015C	Test America-Denver	
Yes	2	500-ml Amber glass		ice		Explosives	EPA 8330B	Test America-Denver	
Yes	1	500-ml Poly		ice		NO2/NO3	EPA 9056	Test America-Denver	
Yes	1	500-ml Poly		HNO3		Tot. Metals	6010C/6020A/7470A	Test America-Denver	
Yes	1	500-ml Poly		HNO3 - Field Filter		Dis. Metals	6010C/6020A/7470A	Test America-Denver	
Yes	1	125-ml Poly w/Syringe		ice - Field Filter		Perchlorate	EPA 6860	Test America-Denver	
Yes	2	1-L Amber glass		ice		SVOCs	EPA 8270D	Test America-Denver	
Yes	2	1-L Amber glass		ice		Pesticides	EPA 8081A	Test America-Denver	
Yes	2	1-L Amber glass		ice		TPH-DRO	EPA 8015C	Test America-Denver	

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 Sundance Consulting Inc.	PROJECT NUMBER US01027-0002AC		WELL ID MW23		LOCATION Northern Area Alluvial				
	GROUNDWATER SAMPLING FIELD DATA SHEET								
	FORT WINGATE DEPOT ACTIVITY								
	LOCATION DESCRIPTION: East, past wash, south of I-40 (~50 meters)								
WEATHER (wind/temp): Sunny, 70°F, breezy									
OTHER NOTABLE FIELD CONDITIONS: N/A									
INITIAL DEPTH TO WATER		PURGE VOLUME CALCULATION		TOTAL DEPTH OF WELL		SCREENED INTERVAL		RECOMMENDED PUMP SETTINGS	
15.22 ft btoc		105 gal		134 ft		65.5-135.5 ft		80 psi, 1gpm	
METHOD OF PURGING: Casing volume / Bennett				INITIAL ORGANIC VAPOR METER READINGS: N/A				ACTUAL FIELD PUMP SETTINGS	
DISPOSITION OF DISCHARGE WATER: Discharged to evaporation pond								45psi	
MONITORING EQUIPMENT USED: Horiba U-52									
Well Purging Information									
Date 4/23/2018	DTW (ft)	Total volume (L)	± 10% Temp (°C)	± 0.5 pH	± 10 ORP (mV)	± 10% Conductivity (mS/cm)	± 10% or <1 Turbidity (NTU)	± 10% or <1 DO (mg/L)	Remarks (color, odor, sheen, sediment, etc.)
1110	15.22	6.00	13.06	8.26	-151	1.21	7.2	0.00	6L/min, 80psi
1115	-	30.00	12.88	8.01	-167	1.19	17.1	0.00	
1130	-	90.00	12.95	8.06	-167	1.19	13.0	0.00	2.4L/min, 55psi
1134	-	114.00	-	-	-	-	-	-	1.2L/min, 50psi
1135	82.61	115.20	13.21	8.03	-170	1.18	12.1	0.00	
1145	82.55	127.20	13.28	8.01	-172	1.18	13.7	0.00	
1200	-	145.20	14.06	8.00	-173	1.16	12.2	0.00	
1230	84.59	181.20	14.09	8.05	-135	1.14	15.0	0.00	
1300	90.20	217.20	14.52	8.04	-126	1.13	12.6	0.00	
1330	95.10	253.00	14.71	8.07	-131	1.12	19.7	0.00	
1400	96.55	289.00	15.00	8.10	-128	1.11	16.9	0.00	
1430	98.80	325.00	15.26	8.07	-71	1.10	10.9	0.00	
1500	99.57	361.00	15.26	8.07	-71	1.10	10.9	0.00	
1530	101.35	397.00	15.27	8.08	-77	1.10	5.8	0.00	Stop Pumping
4/24/2018									
0810	17.53	-	10.81	8.21	55	1.21	0.2	16.25	
0812	-	-	10.79	8.20	50	1.19	0.2	15.86	
0815	-	-	10.79	8.16	48	1.17	0.0	15.75	Start Sampling
Sample Information									
SAMPLE ID(s):		MW23042018		DUPLICATE/MATRIX SPIKE SAMPLE ID(s):		MW23042018MS, MW23042018MSD, MW23042018FD			
SAMPLE DATE:		4/24/2018		SAMPLE TYPE:		Grab			
SAMPLE TIME:		0815		SAMPLE MATRIX:		Groundwater			
SAMPLING METHOD: Dedicated Bennett Pump				FIELD PARAMETERS: See last measurement					
SAMPLER'S NAMES: Kachina Ganz, Dave Larsen									
NOTABLE OBSERVATIONS (color, odor, sand, etc.): N/A									
Collected?	No.	Sample Containers Volume/Type		Preservatives (ice, acids, bases, others)		Analytical Method		Laboratory	
Yes	3	40-ml glass VOA		HCl		VOCs		EPA8260C	
Yes	2	500-ml Amber glass		ice		Explosives		EPA 8330B	
Yes	1	500-ml Poly		ice		NO2/NO3		EPA 9056	
Yes	1	500-ml Poly		HNO3		Tot. Metals		6010C/6020A/7470A	
Yes	1	500-ml Poly		HNO3 - Field Filter		Dis. Metals		6010C/6020A/7470A	
Yes	1	125-ml Poly w/Syringe		ice - Field Filter		Perchlorate		EPA 6860	
Yes	2	1-L Amber glass		ice		SVOCs		EPA 8270D	
Yes	2	1-L Amber glass		ice		Pesticides		EPA 8081A	





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 Sundance Consulting Inc.	PROJECT NUMBER US01027-0002AC		WELL ID TMW10		LOCATION Northern Area Alluvial				
	GROUNDWATER SAMPLING FIELD DATA SHEET								
	FORT WINGATE DEPOT ACTIVITY								
	LOCATION DESCRIPTION:								
WEATHER (wind/temp): 50's, Sunny, 10-15mph wind									
OTHER NOTABLE FIELD CONDITIONS: N/A									
INITIAL DEPTH TO WATER		PURGE VOLUME CALCULATION		TOTAL DEPTH OF WELL		SCREENED INTERVAL		RECOMMENDED PUMP SETTINGS	
38.69 ft btoc		21 gal		61.8 ft btoc		31.2-61.2 ft			
METHOD OF PURGING: Casing volume / Grundfos				INITIAL ORGANIC VAPOR METER READINGS: N/A				ACTUAL FIELD PUMP SETTINGS	
DISPOSITION OF DISCHARGE WATER: Discharged to evaporation pond								150-195Hz	
MONITORING EQUIPMENT USED: Horiba U-52									
Well Purging Information									
Date 4/23/2018 Time	DTW (ft)	Total volume (L)	± 10% Temp (°C)	± 0.5 pH	± 10 ORP (mV)	± 10% Conductivity (mS/cm)	± 10% or <1 Turbidity (NTU)	± 10% or <1 DO (mg/L)	Remarks (color, odor, sheen, sediment, etc.)
1031	38.69	0.00	13.08	8.41	200	5.14	175	0.59	150Hz, TD=61.2
1036	42.59	10.00	14.04	8.35	178	6.88	657	13.61	165Hz
1041	43.41	25.00	13.56	8.06	204	6.49	291	3.74	180Hz
1046	45.17	42.00	13.41	8.04	224	6.63	102	4.48	190Hz
1051	48.12	60.00	13.29	7.98	214	6.38	115	11.77	
1056	53.61	75.00	13.64	7.98	229	5.97	107	11.42	195Hz
1101	56.55	87.00	13.54	7.98	239	5.62	102	11.51	
1106	58.67	105.00	13.21	7.98	244	5.54	72.1	11.91	
1111	59.69	115.00	13.22	7.99	252	6.12	58.5	10.01	<2ft
4/24/2018									
0901	38.71	1.00	14.56	7.98	127	5.23	114	10.62	
4/26/2018									
1625	38.61	-	-	-	-	-	-	-	175Hz
1635	44.04	5.00	24.15	8.20	109	3.33	238	9.73	
1645	54.88	53.00	18.47	8.17	118	6.19	210	9.22	200Hz
1701	-	94.00	-	-	-	-	-	-	Out of water, DRY
									Resample Nitrate/Nitrite
4/27/2018									Resampled Date: 4/27/18
0750	38.69	95.00	12.16	7.06	281	6.62	167	11.59	Resampled Time: 0750
									Resample ID: TMW100420182
Sample Information									
SAMPLE ID(s):		TMW10042018		DUPLICATE/MATRIX SPIKE SAMPLE ID(s):					
SAMPLE DATE:		4/24/2018				SAMPLE TYPE: Grab			
SAMPLE TIME:		0901				SAMPLE MATRIX: Groundwater			
SAMPLING METHOD:		Hand bail				FIELD PARAMETERS: See last measurement			
SAMPLER'S NAMES: Mac Booth, Kristin Garza									
NOTABLE OBSERVATIONS (color, odor, sand, etc.): N/A									
Collected?	No.	Sample Containers Volume/Type	Preservatives (ice, acids, bases, others)	Analytical Method		Laboratory			
Yes	3	40-ml glass VOA	HCl	VOCs	EPA8260C	Test America-St Louis			
Yes	2	500-ml Amber glass	ice	Explosives	EPA 8330B	Test America-Denver			
Yes	1	500-ml Poly	ice	NO2/NO3	EPA 9056	Test America-Denver			
Yes	1	500-ml Poly	HNO3	Tot. Metals	6010C/6020A/7470A	Test America-Denver			
Yes	1	500-ml Poly	HNO3 - Field Filter	Dis. Metals	6010C/6020A/7470A	Test America-Denver			
Yes	1	125-ml Poly w/Syringe	ice - Field Filter	Perchlorate	EPA 6860	Test America-Denver			





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 Sundance Consulting Inc.	PROJECT NUMBER US01027-0002AC		WELL ID TMW40S		LOCATION Northern Area Alluvial				
	GROUNDWATER SAMPLING FIELD DATA SHEET								
	FORT WINGATE DEPOT ACTIVITY								
	LOCATION DESCRIPTION: East of TNT leaching beds								
WEATHER (wind/temp): 67° F, sunny, calm									
OTHER NOTABLE FIELD CONDITIONS: ~50 yards W of large excavation									
INITIAL DEPTH TO WATER		PURGE VOLUME CALCULATION		TOTAL DEPTH OF WELL		SCREENED INTERVAL		RECOMMENDED PUMP SETTINGS	
60.80 ft btoc		1 gal		62 ft btoc		52.6 to 62.6 ft			
METHOD OF PURGING: Casing volume / Bail				INITIAL ORGANIC VAPOR METER READINGS: N/A				ACTUAL FIELD PUMP SETTINGS	
DISPOSITION OF DISCHARGE WATER: Discharged to evaporation pond								Bail	
MONITORING EQUIPMENT USED: Horiba U-52									
Well Purging Information									
Date 4/24/2018 Time	DTW (ft)	Total volume (L)	± 10% Temp (°C)	± 0.5 pH	± 10 ORP (mV)	± 10% Conductivity (mS/cm)	± 10% or <1 Turbidity (NTU)	± 10% or <1 DO (mg/L)	Remarks (color, odor, sheen, sediment, etc.)
1051	60.80	0.50	18.83	8.09	110	4.01	376.0	1.96	
1053	61.14	1.00	17.55	8.06	114	4.01	272.0	5.55	
1055	-	1.50	16.12	7.91	128	4.14	1000.0*	11.23	*OR
1057	-	2.00	15.57	7.87	131	4.12	783.0	9.41	
1059	-	2.50	15.21	7.86	134	4.16	1000.0*	8.24	*OR
1101	61.53	2.75	14.98	7.83	147	4.24	869.0	10.82	
1106	-	3.00	16.42	7.92	143	4.12	0.0*	9.83	
1108	-	3.25	16.18	7.88	145	3.48	0.0*	8.46	
1114	62.00	3.35	-	-	-	-	-	-	
1118	62.12	-	-	-	-	-	-	-	Dry
4/25/18									
0812	61.50	-	-	-	-	-	-	-	Only 1" in bailer
4/26/18									
1130	61.41	-	-	-	-	-	-	-	Partial
4/27/18									
0754	61.66	-	-	-	-	-	-	-	
Sample Information									
SAMPLE ID(s):		TMW40S042018		DUPLICATE/MATRIX SPIKE SAMPLE ID(s):					
SAMPLE DATE:		4/25/2018				SAMPLE TYPE: Grab			
SAMPLE TIME:		0815				SAMPLE MATRIX: Groundwater			
SAMPLING METHOD: Hand bail				FIELD PARAMETERS: See last measurement					
SAMPLER'S NAMES: Kristin Garza, Mac Booth									
NOTABLE OBSERVATIONS (color, odor, sand, etc.): N/A									
Collected?	No.	Sample Containers Volume/Type		Preservatives (ice, acids, bases, others)		Analytical Method		Laboratory	
Yes	3	40-ml glass VOA		HCl		VOCs EPA8260C		Test America-St Louis	
Yes	2	500-ml Amber glass		ice		Explosives EPA 8330B		Test America-Denver	
Yes	1	500-ml Poly		ice		NO2/NO3 EPA 9056		Test America-Denver	
Yes	1	500-ml Poly		HNO3		Tot. Metals 6010C/6020A/7470A		Test America-Denver	
Yes	1	500-ml Poly		HNO3 - Field Filter		Dis. Metals 6010C/6020A/7470A		Test America-Denver	
Yes	1	125-ml Poly w/Syringe		ice - Field Filter		Perchlorate EPA 6860		Test America-Denver	
Yes	2	1-L Amber glass		ice		SVOCs EPA 8270D		Test America-Denver	
Yes	2	1-L Amber glass		ice		Pesticides EPA 8081A		Test America-Denver	





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 Sundance Consulting Inc.	PROJECT NUMBER US01027-0002AC		WELL ID BGMW07		LOCATION Northern Area Bedrock				
	GROUNDWATER SAMPLING FIELD DATA SHEET								
	FORT WINGATE DEPOT ACTIVITY								
	LOCATION DESCRIPTION: Parcel 14, East of BGMW01								
WEATHER (wind/temp): Sunny, 75° F, 25 mph winds									
OTHER NOTABLE FIELD CONDITIONS: N/A									
INITIAL DEPTH TO WATER		PURGE VOLUME CALCULATION		TOTAL DEPTH OF WELL		SCREENED INTERVAL		RECOMMENDED PUMP SETTINGS	
104.65 ft btoc		195 gal		256 ft bgs		215-255 ft bgs		100 psi, 15 sec fill, 25 sec discharge	
METHOD OF PURGING: Casing Volume / Reclaimer				INITIAL ORGANIC VAPOR METER READINGS: N/A				ACTUAL FIELD PUMP SETTINGS	
DISPOSITION OF DISCHARGE WATER: Discharged to evaporation pond								Reclaimer 100 psi, 15 sec fill, 25 sec discharge	
MONITORING EQUIPMENT USED: Horiba U-52									
Well Purging Information									
Date 4/25/2018	DTW (ft)	Total volume (L)	± 10% Temp (°C)	± 0.5 pH	± 10 ORP (mV)	± 10% Conductivity (mS/cm)	± 10% or <1 Turbidity (NTU)	± 10% or <1 DO (mg/L)	Remarks (color, odor, sheen, sediment, etc.)
1530	-	2.00	22.38	8.29	55	32.80	309	6.96	
1540	121.65	10.00	18.58	7.93	-24	38.40	0.0*	0.58	
1550	134.78	18.00	17.46	7.92	-47	33.20	636	7.07	
1600	149.79	26.00	17.22	7.92	-41	32.90	339	4.84	
1610	164.15	35.00	16.98	7.92	-16	32.30	169	3.96	
1620	172.54	42.00	16.87	7.91	-33	31.80	104	5.54	
1630	182.91	49.00	16.77	7.92	-22	31.50	135	5.76	
1640	191.25	55.00	16.93	7.91	-22	30.70	120	7.47	
1651	199.37	60.00	17.08	7.90	-3	31.00	127	7.21	
1703	-	-	-	-	-	-	-	-	Nitrogen out - replacing tank
1733	203.69	65.00	13.28	7.91	-18	30.40	114	2.71	
1743	210.08	69.00	17.50	7.90	-35	31.80	102	1.24	
1753	214.18	73.00	19.03	7.83	-5	26.20	91.6	5.13	20 sec on, 20 sec off
1800	217.84	-	-	-	-	-	-	-	Done purging
4/26/18									
1226	173.81	1.00	19.34	8.01	26	8.84	82.8	8.17	
Sample Information									
SAMPLE ID(s):		BGMW07042018		DUPLICATE/MATRIX SPIKE SAMPLE ID(s):					
SAMPLE DATE:		4/26/2018				SAMPLE TYPE: Grab			
SAMPLE TIME:		1236				SAMPLE MATRIX: Groundwater			
SAMPLING METHOD: Hand bail				FIELD PARAMETERS: See last measurement					
SAMPLER'S NAMES: Mac Booth, Caleb Jennings									
NOTABLE OBSERVATIONS (color, odor, sand, etc.): N/A									
Collected?	No.	Sample Containers Volume/Type		Preservatives (ice, acids, bases, others)		Analytical Method		Laboratory	
Yes	3	40-ml glass VOA		HCl		VOCs EPA8260C		Test America- St Louis	
Yes	2	500-ml Amber glass		ice		Explosives EPA 8330B		Test America-Denver	
Yes	1	500-ml Poly		ice		NO2/NO3 EPA 9056		Test America-Denver	
Yes	1	500-ml Poly		HNO3		Tot. Metals 6010C/6020A/7470A		Test America-Denver	
Yes	1	500-ml Poly		HNO3 - Field Filter		Dis. Metals 6010C/6020A/7470A		Test America-Denver	
Yes	1	125-ml Poly w/Syringe		ice - Field Filter		Perchlorate EPA 6860		Test America-Denver	
Yes	2	1-L Amber glass		ice		SVOCs EPA 8270D		Test America-Denver	
Yes	2	1-L Amber glass		ice		Pesticides EPA 8081A		Test America-Denver	
Yes	2	1-L Amber glass		ice		PCBs EPA 8082A		Test America-Denver	
Yes	2	1-L Amber glass		ice		Herbicides EPA 8151A		Test America-Denver	

 Sundance Consulting Inc.	PROJECT NUMBER USO1027-0002AC		WELL ID BGMW07		LOCATION Northern Area Bedrock				
	GROUNDWATER SAMPLING FIELD DATA SHEET								
	FORT WINGATE DEPOT ACTIVITY								
	LOCATION DESCRIPTION: Parcel 14, East of BGMW01								
WEATHER (wind/temp): 55° F, sunny, calm morning, windy after									
OTHER NOTABLE FIELD CONDITIONS: N/A									
INITIAL DEPTH TO WATER		PURGE VOLUME CALCULATION		TOTAL DEPTH OF WELL		SCREENED INTERVAL		RECOMMENDED PUMP SETTINGS	
32.79 ft btoc		195 gal		256 ft bgs		215-255 ft bgs			
METHOD OF PURGING: Casing Volume / Reclaimer				INITIAL ORGANIC VAPOR METER READINGS: N/A				ACTUAL FIELD PUMP SETTINGS	
DISPOSITION OF DISCHARGE WATER: Discharged to evaporation pond								Reclaimer 80 psi, 10 sec fill, 10 sec discharge	
MONITORING EQUIPMENT USED: Horiba U-52									
Well Purging Information									
Date 4/23/2018	DTW (ft)	Total volume (L)	± 10% Temp (°C)	± 0.5 pH	± 10 ORP (mV)	± 10% Conductivity (mS/cm)	± 10% or <1 Turbidity (NTU)	± 10% or <1 DO (mg/L)	Remarks (color, odor, sheen, sediment, etc.)
0915	-	-	-	-	-	-	-	-	
1020	-	2.0	14.95	4.96	300	25.80	77.8	9.02	
1022	-	5.0	14.65	6.35	154	27.30	72.5	7.84	
1025	-	9.0	14.67	6.95	116	20.80	67.5	8.55	
1028	-	13.0	14.81	7.49	119	4.34	103	9.50	
1034	-	18.0	14.66	7.62	168	14.40	79.6	9.22	
1044	-	31.0	15.16	7.73	215	28.80	98.0	7.85	
1054	-	43.0	15.45	7.97	106	27.70	81.5	0.82	80 psi
1058	100.15	-	-	-	-	-	-	-	25 sec fill, 20 sec discharge
1104	109.00	49.0	14.59	8.02	125	28.60	74.4	5.32	
1125	-	65.0	16.10	8.04	128	26.70	68.2	1.18	
1136	-	71.0	15.17	8.09	125	27.30	59.5	3.86	
1227	156.27	-	-	-	-	-	-	-	Stopped purging
4/24/18									Pump @254 btoc
1347	111.80	-	-	-	-	-	-	-	
1549	117.85	-	-	-	-	-	-	-	
1555	-	12.0	16.80	7.91	144	2.89	0.0	7.47	
1557	125.30	14.0	-	-	-	-	-	-	Thick red brown water
1636	140.00	29.0	-	-	-	-	-	-	Not dry - stopped purging
Sample Information									
SAMPLE ID(s):		BGMW07042018		DUPLICATE/MATRIX SPIKE SAMPLE ID(s):					
SAMPLE DATE:						SAMPLE TYPE: Grab			
SAMPLE TIME:						SAMPLE MATRIX: Groundwater			
SAMPLING METHOD:						FIELD PARAMETERS: See last measurement			
SAMPLER'S NAMES:									
NOTABLE OBSERVATIONS (color, odor, sand, etc.):									
Collected?	No.	Sample Containers Volume/Type		Preservatives (ice, acids, bases, others)		Analytical Method		Laboratory	
	3	40-ml glass VOA		HCl		VOCs EPA8260C		Test America- St Louis	
	2	500-ml Amber glass		ice		Explosives EPA 8330B		Test America-Denver	
	1	500-ml Poly		ice		NO2/NO3 EPA 9056		Test America-Denver	
	1	500-ml Poly		HNO3		Tot. Metals 6010C/6020A/7470A		Test America-Denver	
	1	500-ml Poly		HNO3 - Field Filter		Dis. Metals 6010C/6020A/7470A		Test America-Denver	
	1	125-ml Poly w/Syringe		ice - Field Filter		Perchlorate EPA 6860		Test America-Denver	
	2	1-L Amber glass		ice		SVOCs EPA 8270D		Test America-Denver	
	2	1-L Amber glass		ice		Pesticides EPA 8081A		Test America-Denver	
	2	1-L Amber glass		ice		PCBs EPA 8082A		Test America-Denver	
	2	1-L Amber glass		ice		Herbicides EPA 8151A		Test America-Denver	

 Sundance Consulting Inc.	PROJECT NUMBER US01027-0002AC		WELL ID BGMW08		LOCATION Northern Area Bedrock				
	GROUNDWATER SAMPLING FIELD DATA SHEET FORT WINGATE DEPOT ACTIVITY								
	LOCATION DESCRIPTION: East of administration area, east of TMW24								
	WEATHER (wind/temp): 74° F, sunny, windy								
OTHER NOTABLE FIELD CONDITIONS: N/A									
INITIAL DEPTH TO WATER	PURGE VOLUME CALCULATION		TOTAL DEPTH OF WELL		SCREENED INTERVAL		RECOMMENDED PUMP SETTINGS		
178.98 ft btoc	6.5 gal		186.6 ft		165-185 ft bgs				
METHOD OF PURGING: Casing Volume / Reclaimer			INITIAL ORGANIC VAPOR METER READINGS: N/A				ACTUAL FIELD PUMP SETTINGS		
DISPOSITION OF DISCHARGE WATER: Discharged to evaporation pond									
MONITORING EQUIPMENT USED: Horiba U-52									
Well Purging Information									
Date 4/23/2018	DTW (ft)	Total volume (L)	± 10% Temp (°C)	± 0.5 pH	± 10 ORP (mV)	± 10% Conductivity (mS/cm)	± 10% or <1 Turbidity (NTU)	± 10% or <1 DO (mg/L)	Remarks (color, odor, sheen, sediment, etc.)
1555	178.98	-	-	-	-	-	-	-	
1609	-	1.00	22.48	10.09	1	2.17	0	8.74	Possible TD 189.3
1627	-	5.00	19.04	9.30	-177	3.19	OR	1.80	NTU likely over range
1632	185.81	-	-	-	-	-	-	-	
1650	186.42	-	-	-	-	-	-	-	
4/24/18									
1017	185.68	-	-	-	-	-	-	-	
4/25/18									
0753	185.25	-	-	-	-	-	-	-	
4/26/18									
1606	184.68	-	-	-	-	-	-	-	Well is dry, no samples collected
									NEEDS REDEVELOPMENT
Sample Information									
SAMPLE ID(s):		BGMW08042018		DUPLICATE/MATRIX SPIKE SAMPLE ID(s):					
SAMPLE DATE:				SAMPLE TYPE: Grab					
SAMPLE TIME:				SAMPLE MATRIX: Groundwater					
SAMPLING METHOD:				FIELD PARAMETERS: See last measurement					
SAMPLER'S NAMES:									
NOTABLE OBSERVATIONS (color, odor, sand, etc.):				Needs redevelopment - Insufficient recharge - Not sampled					
Collected?	No.	Sample Containers Volume/Type	Preservatives (ice, acids, bases, others)	Analytical Method				Laboratory	
	3	40-ml glass VOA	HCl	VOCs	EPA8260C	Test America- St Louis			
	2	500-ml Amber glass	ice	Explosives	EPA 8330B	Test America-Denver			
	1	500-ml Poly	ice	NO2/NO3	EPA 9056	Test America-Denver			
	1	500-ml Poly	HNO3	Tot. Metals	6010C/6020A/7470A	Test America-Denver			
	1	500-ml Poly	HNO3 - Field Filter	Dis. Metals	6010C/6020A/7470A	Test America-Denver			
	1	125-ml Poly w/Syringe	ice - Field Filter	Perchlorate	EPA 6860	Test America-Denver			
	2	1-L Amber glass	ice	SVOCs	EPA 8270D	Test America-Denver			
	2	1-L Amber glass	ice	Pesticides	EPA 8081A	Test America-Denver			
	2	1-L Amber glass	ice	PCBs	EPA 8082A	Test America-Denver			
	2	1-L Amber glass	ice	Herbicides	EPA 8151A	Test America-Denver			

 Sundance Consulting Inc.	PROJECT NUMBER USO1027-0002AC		WELL ID BGMW09		LOCATION Northern Area Bedrock				
	GROUNDWATER SAMPLING FIELD DATA SHEET								
	FORT WINGATE DEPOT ACTIVITY								
	LOCATION DESCRIPTION: East of administration area, east of TMW45								
WEATHER (wind/temp): Sunny, 60° F, 45-55 mph wind SSW									
OTHER NOTABLE FIELD CONDITIONS: N/A									
INITIAL DEPTH TO WATER		PURGE VOLUME CALCULATION		TOTAL DEPTH OF WELL		SCREENED INTERVAL		RECOMMENDED PUMP SETTINGS	
107.79 ft btoc		20 gal		137.80 ft		106-136 ft bgs			
METHOD OF PURGING: Casing Volume / Reclaimer				INITIAL ORGANIC VAPOR METER READINGS: N/A				ACTUAL FIELD PUMP SETTINGS	
DISPOSITION OF DISCHARGE WATER: Discharged to evaporation pond								Bail	
MONITORING EQUIPMENT USED: Horiba U-52									
Well Purging Information									
Date 4/30/2018	DTW (ft)	Total volume (L)	± 10% Temp (°C)	± 0.5 pH	± 10 ORP (mV)	± 10% Conductivity (mS/cm)	± 10% or <1 Turbidity (NTU)	± 10% or <1 DO (mg/L)	Remarks (color, odor, sheen, sediment, etc.)
1417	107.79	-	-	-	-	-	-	-	
1431	-	2.00	17.09	8.30	120	3.75	0.0	7.20	NTU over range
1449	-	12.00	16.39	8.48	115	4.96	0.0	6.86	
1507	-	23.00	15.89	8.29	122	5.09	0.0	0.00	Brown, silty
1519	123.16	38.00	16.10	8.37	119	5.08	0.0	3.15	
1529	-	-	-	-	-	-	-	-	
1544	-	48.00	15.80	8.35	119	5.07	0.0	41.00	
1606	136.11	-	-	-	-	-	-	-	
1610	136.58	60.00	15.28	8.37	117	5.07	0.0	4.44	Dry
5/1/18									
1218	133.28	2.00	16.41	8.50	121	5.05	0.0	7.87	NTU over range
5/2/18									
1017	135.80	-	-	-	-	-	-	-	
5/3/18									
1125	135.43	-	11.46	8.87	44	3.63	352	5.20	
Sample Information									
SAMPLE ID(s):		BGMW09042018		DUPLICATE/MATRIX SPIKE SAMPLE ID(s):					
SAMPLE DATE:		5/1/2018				SAMPLE TYPE: Grab			
SAMPLE TIME:		1234				SAMPLE MATRIX: Groundwater			
SAMPLING METHOD: Bail				FIELD PARAMETERS: See last measurement					
SAMPLER'S NAMES: Mac Booth, Caleb Jennings									
NOTABLE OBSERVATIONS (color, odor, sand, etc.): Windy ~30 mph winds, down wind of Zapata excavation									
Collected?	No.	Sample Containers Volume/Type		Preservatives (ice, acids, bases, others)		Analytical Method		Laboratory	
Yes	3	40-ml glass VOA		HCl		VOCs EPA8260C		Test America- St Louis	
Yes	2	500-ml Amber glass		ice		Explosives EPA 8330B		Test America-Denver	
Yes	1	500-ml Poly		ice		NO2/NO3 EPA 9056		Test America-Denver	
Yes	1	500-ml Poly		HNO3		Tot. Metals 6010C/6020A/7470A		Test America-Denver	
Yes	1	500-ml Poly		HNO3 - Field Filter		Dis. Metals 6010C/6020A/7470A		Test America-Denver	
Yes	1	125-ml Poly w/Syringe		ice - Field Filter		Perchlorate EPA 6860		Test America-Denver	
Yes	2	1-L Amber glass		ice		SVOCs EPA 8270D		Test America-Denver	
Yes	2	1-L Amber glass		ice		Pesticides EPA 8081A		Test America-Denver	
Yes	2	1-L Amber glass		ice		PCBs EPA 8082A		Test America-Denver	
Yes	2	1-L Amber glass		ice		Herbicides EPA 8151A		Test America-Denver	

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 Sundance Consulting Inc.	PROJECT NUMBER US01027-0002AC		WELL ID TMW31D		LOCATION Northern Area Bedrock				
	GROUNDWATER SAMPLING FIELD DATA SHEET FORT WINGATE DEPOT ACTIVITY								
	LOCATION DESCRIPTION:								
	WEATHER (wind/temp): 15-20 S Windy, 40° F, cloudy, rainy, sleet snow OTHER NOTABLE FIELD CONDITIONS: N/A								
INITIAL DEPTH TO WATER 40.70 ft btoc	PURGE VOLUME CALCULATION 59 gal		TOTAL DEPTH OF WELL 107.3 ft btoc		SCREENED INTERVAL 78.5 - 108.5 ft		RECOMMENDED PUMP SETTINGS 9 sec on, 21 sec off, 55 psi, 275 mL/min		
METHOD OF PURGING: BESST low flow			INITIAL ORGANIC VAPOR METER READINGS: N/A				ACTUAL FIELD PUMP SETTINGS		
DISPOSITION OF DISCHARGE WATER: Discharged to evaporation pond							5 sec on, 21 sec off, 55 psi, 200 mL/min		
MONITORING EQUIPMENT USED: Horiba U-52									
Well Purging Information									
Date 5/2/2018 Time	DTW (ft)	Total volume (L)	± 10% Temp (°C)	± 0.5 pH	± 10 ORP (mV)	± 10% Conductivity (mS/cm)	± 10% or <1 Turbidity (NTU)	± 10% or <1 DO (mg/L)	Remarks (color, odor, sheen, sediment, etc.)
1155	40.94	3.00	11.16	8.09	-80	3.81	0.0	6.59	
1158	40.94	3.50	11.45	8.12	-123	3.48	0.0	8.68	
1201	40.94	4.00	11.57	7.89	-117	3.05	0.0	7.97	
1204	40.94	4.75	11.72	7.76	-103	2.88	0.0	7.21	
1207	40.94	5.25	11.67	7.71	-88	2.83	0.0	6.73	
1210	40.94	6.00	11.72	7.69	-77	2.81	0.0	6.34	
1213	40.94	6.75	11.81	7.66	-54	2.77	0.0	5.62	
1216	40.94	7.00	11.84	7.65	-48	2.77	0.0	5.42	
1219	40.94	8.00	11.88	7.61	-33	2.75	0.0	5.01	
1221	40.94	8.50	11.91	7.54	-18	2.74	0.0	4.61	
1224	40.94	9.00	11.94	7.58	-8	2.73	0.0	4.20	
1227	40.94	9.75	11.90	7.56	-1	2.72	0.0	3.90	
1230	40.95	10.25	11.93	7.57	10	2.72	0.0	3.31	
1233	40.95	11.00	11.87	7.56	15	2.71	0.0	3.08	
1236	40.95	11.50	11.88	7.55	20	2.71	0.0	2.85	
1239	40.95	12.00	11.94	7.55	24	2.71	0.0	2.60	
1242	40.95	13.00	11.92	7.55	28	2.70	0.0	2.59	
Sample Information									
SAMPLE ID(s):		TMW31D042018		DUPLICATE/MATRIX SPIKE SAMPLE ID(s):		TW31D042018FD			
SAMPLE DATE:		5/2/2018		SAMPLE TYPE:		Grab			
SAMPLE TIME:		1243		SAMPLE MATRIX:		Groundwater			
SAMPLING METHOD: Low flow by dedicated Blatypus pneumatic pump						FIELD PARAMETERS: See last measurement			
SAMPLER'S NAMES: Caleb Jennings, Mac Booth									
NOTABLE OBSERVATIONS (color, odor, sand, etc.): N/A									
Collected?	No.	Sample Containers Volume/Type	Preservatives (ice, acids, bases, others)	Analytical Method		Laboratory			
Yes	3	40-ml glass VOA	HCl	VOCs	EPA8260C	Test America-St Louis			
Yes	2	500-ml Amber glass	ice	Explosives	EPA 8330B	Test America-Denver			
Yes	1	500-ml Poly	ice	NO2/NO3	EPA 9056	Test America-Denver			
Yes	1	500-ml Poly	HNO3	Tot. Metals	6010C/6020A/7470A	Test America-Denver			
Yes	1	500-ml Poly	HNO3 - Field Filter	Dis. Metals	6010C/6020A/7470A	Test America-Denver			
Yes	1	125-ml Poly w/Syringe	ice - Field Filter	Perchlorate	EPA 6860	Test America-Denver			
Yes	2	1-L Amber glass	ice	SVOCs	EPA 8270D	Test America-Denver			
Yes	2	1-L Amber glass	ice	Pesticides	EPA 8081A	Test America-Denver			

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 Sundance Consulting Inc.	PROJECT NUMBER US01027-0002AC		WELL ID TMW40D		LOCATION Northern Area Bedrock				
	GROUNDWATER SAMPLING FIELD DATA SHEET								
	FORT WINGATE DEPOT ACTIVITY								
	LOCATION DESCRIPTION: East of gate 51								
WEATHER (wind/temp): Sunny, 30 mph winds, 50° F									
OTHER NOTABLE FIELD CONDITIONS: Dirt in monument, by excavation									
INITIAL DEPTH TO WATER		PURGE VOLUME CALCULATION		TOTAL DEPTH OF WELL		SCREENED INTERVAL		RECOMMENDED PUMP SETTINGS	
35.69 ft btoc		108 gal		158.1 ft btoc		137.3 - 157.3 ft		40psi, 9 sec on, 23 sec off, 180 mL/min	
METHOD OF PURGING: BESST low flow				INITIAL ORGANIC VAPOR METER READINGS: N/A				ACTUAL FIELD PUMP SETTINGS	
DISPOSITION OF DISCHARGE WATER: Discharged to evaporation pond								40 psi, 11 sec on, 23 sec off, 180 mL/min	
MONITORING EQUIPMENT USED: Horiba U-52									
Well Purging Information									
Date 5/1/2018 Time	DTW (ft)	Total volume (L)	± 10% Temp (°C)	± 0.5 pH	± 10 ORP (mV)	± 10% Conductivity (mS/cm)	± 10% or <1 Turbidity (NTU)	± 10% or <1 DO (mg/L)	Remarks (color, odor, sheen, sediment, etc.)
1011	35.66	1.00	13.35	8.32	70	4.12	0.0	0.40	
1015	35.66	2.00	13.68	8.35	-108	3.30	0.0	0.33	
1019	35.66	2.50	13.76	8.65	-124	3.17	0.0	0.02	
1023	35.66	3.00	13.79	8.56	-112	3.17	0.0	0.00	
1027	35.66	4.00	13.83	8.56	-107	3.17	0.0	0.00	
1031	35.66	4.50	13.91	8.56	-91	3.17	0.0	0.00	
1035	35.68	5.00	13.85	8.56	-79	3.17	0.0	0.00	
1039	35.68	6.00	13.92	8.57	-69	3.16	0.0	0.00	
1043	35.68	6.50	13.98	8.57	-57	3.16	0.0	0.00	
1047	35.68	-	13.98	8.57	-48	3.16	0.0	0.00	
1051	35.68	7.50	14.08	8.57	-39	3.16	0.0	0.00	
1055	35.69	8.00	14.12	8.58	-31	3.15	0.0	0.00	
1059	35.69	8.50	14.06	8.58	-24	3.16	0.0	0.00	
1103	35.70	9.50	14.11	8.58	-17	3.15	0.0	0.00	
1107	35.70	10.00	14.19	8.58	-13	3.16	0.0	0.00	
1111	35.70	11.00	14.22	8.59	-9	3.17	0.0	0.00	
Sample Information									
SAMPLE ID(s):		TMW40D042018		DUPLICATE/MATRIX SPIKE SAMPLE ID(s):					
SAMPLE DATE:		5/1/2018				SAMPLE TYPE: Grab			
SAMPLE TIME:		1035				SAMPLE MATRIX: Groundwater			
SAMPLING METHOD: Low flow by dedicated Blatypus pneumatic pump						FIELD PARAMETERS: See last measurement			
SAMPLER'S NAMES: Caleb Jennings, Mac Booth									
NOTABLE OBSERVATIONS (color, odor, sand, etc.):									
Collected?	No.	Sample Containers Volume/Type		Preservatives (ice, acids, bases, others)		Analytical Method		Laboratory	
Yes	3	40-ml glass VOA		HCl		VOCs EPA8260C		Test America-St Louis	
Yes	2	500-ml Amber glass		ice		Explosives EPA 8330B		Test America-Denver	
Yes	1	500-ml Poly		ice		NO2/NO3 EPA 9056		Test America-Denver	
Yes	1	500-ml Poly		HNO3		Tot. Metals 6010C/6020A/7470A		Test America-Denver	
Yes	1	500-ml Poly		HNO3 - Field Filter		Dis. Metals 6010C/6020A/7470A		Test America-Denver	
Yes	1	125-ml Poly w/Syringe		ice - Field Filter		Perchlorate EPA 6860		Test America-Denver	
Yes	2	1-L Amber glass		ice		SVOCs EPA 8270D		Test America-Denver	
Yes	2	1-L Amber glass		ice		Pesticides EPA 8081A		Test America-Denver	

[illegible]

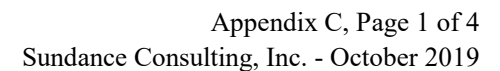
[illegible]

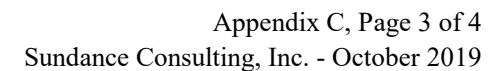
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Appendix C

Calibration Logs

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Sundance
Consulting Inc.

Groundwater Horiba Calibration Log

Horiba ID #: 33113-24310 (Pine rental)

		Standard Readings				Initial Horiba Readings				Post Calibration Horiba Readings				Initials
Date/Time		NTU	D.O.	pH	mS/cm	NTU	D.O.	pH	mS/cm	NTU	D.O.	pH	mS/cm	
4/25/2018	-	0.0	11.34	4.00	4.49	0.4	8.94	3.78	5.95	0.0	9.00	4.00	4.50	KaG
4/26/2018	-	0.0	10.63	4.00	4.49	4.3	8.69	3.98	4.51	0.0	11.32	3.93	4.50	KrG

4/27/2018: Horiba ID # 33113-24310 failed to turn on, even after battery replacement/troubleshooting. It was replaced with Horiba ID # 41031-41032.

Horiba ID #: 41031-41032 (Pine rental)

		Standard Readings				Initial Horiba Readings				Post Calibration Horiba Readings				Initials
Date/Time		NTU	D.O.	pH	mS/cm	NTU	D.O.	pH	mS/cm	NTU	D.O.	pH	mS/cm	
4/27/2018	0726	0.0	9.44	4.00	4.49	0.0	143.8	6.64	3.85	0.0	9.04	4.00	4.50	KrG
4/30/2018	-	0.0	10.86	4.00	4.49	1.4	114	3.13	4.68	0.0	113.6	3.96	4.48	KrG
5/1/2018	-	0.0	10.21	4.00	4.49	0.0	106.9	3.95	4.54	0.0	10.26	3.99	4.51	KrG
5/2/2018	-	0.0	9.26	4.00	4.49	0.0	10.75	4.11	4.49	0.0	10.76	3.99	4.49	KrG
5/3/2018	-	0.0	9.26	4.00	4.49	0.0	14.12	4.05	4.99	0.0	9.90	3.98	4.48	KrG

Appendix D
Data Quality Assessment Reports

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LABORATORY DATA CONSULTANTS, INC.

2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760-827-1100 Fax: 760-827-1099

Sundance Consulting, Inc.
6700 Jefferson St. NE
Albuquerque, NM 87109
ATTN: Ms. Catherine Drumheller

July 26, 2018

**SUBJECT: Revised Data Quality Assessment Report
Interim Facility-Wide
Groundwater Monitoring
Fort Wingate Depot Activity
McKinley County, New Mexico**

Dear Ms. Drumheller,

Enclosed is the Revised Data Quality Assessment Report for Interim Facility-Wide, Groundwater Monitoring, Fort Wingate Depot Activity, McKinley County, New Mexico

We appreciate this opportunity to support Sundance in the performance of this project.

Please feel free to contact us if you have any questions.

Sincerely,

Christina Rink
Project Manager/Senior Chemist

DATA QUALITY ASSESSMENT REPORT

**INTERIM FACILITY-WIDE
GROUNDWATER MONITORING
FORT WINGATE DEPOT ACTIVITY
MCKINLEY COUNTY, NEW MEXICO**

July 26, 2018

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GLOSSARY

DQAR	Data Quality Assessment Report
DQO	Data Quality Objective
DOD	Department of Defense
DL	Detection Limit
DRO	Diesel Range Organics
EB	Equipment Blank
GRO	Gasoline Range Organics
LCS/LCSD	Laboratory Control Sample / Laboratory Control Sample Duplicate
LDC	Laboratory Data Consultants, Inc
LOD	Limit of Detection
LOQ	Limit of Quantitation
MS/MSD	Matrix Spike / Matrix Spike Duplicate
NFG	National Functional Guidelines
PARCCS	Precision, Accuracy, Representativeness, Comparability, Completeness, Sensitivity
PCBs	Polychlorinated Biphenyls
PQO	Project Quality Objectives
PT	Proficiency Testing
QAPP	Quality Assurance Project Plan
QA/QC	Quality Assurance/Quality Control
QSM	Quality Systems Manual
RPD	Relative Percent Difference
SDG	Sample Delivery Group
SVOCs	Semivolatile Organic Compounds
TB	Trip Blank
VOCs	Volatile Organic Compounds
%D	Percent Difference
%R	Percent Recovery
%RSD	Percent Relative Standard Deviation
ug/L	Micrograms per Liter

1.0 INTRODUCTION

Interim Facility-wide Groundwater Monitoring Fort Wingate Depot Activity was conducted at McKinley County, New Mexico. The monitoring included the collection and analyses of 132 environmental and quality control (QC) samples. The analyses were performed by the following method:

Volatile Organic Compounds (VOCs) by Environmental Protection Agency (EPA) SW 846 Method 8260C

Semivolatile Organic Compounds (SVOCs) by EPA SW 846 Method 8270D

Caprolactam by EPA SW 846 Method 8270D

Chlorinated Pesticides by EPA SW 846 Method 8081A

Polychlorinated Biphenyls (PCBs) by EPA SW 846 Method 8082A

Herbicides by EPA SW 846 Method 8151A

Gasoline Range Organics by EPA SW846 Method 8015C

Diesel Range Organics by EPA SW846 Method 8015C

Explosives by EPA SW 846 Method 8330B

Perchlorate by EPA SW 846 Method 6860

Total and Dissolved Metals by EPA SW 846 Methods 6010C/6020A/7470A

Nitrate as Nitrogen and Nitrite as Nitrogen by EPA SW 846 Method 9056A

Analytical services were provided by TestAmerica Inc. whom performed analyses on the water samples. The samples were grouped into sample delivery groups (SDGs) as received by each laboratory. The environmental samples are associated with quality assurance and quality control (QA/QC) samples designed to document the data quality of the entire SDG or a sub-group of samples within a SDG. Table I is a cross-reference table listing each sample, analysis, SDG, collection date, laboratory sample number, matrix, and validation level.

All of the analytical data were validated according to EPA Level III and Level IV validation procedures. The analytical data were evaluated for QA/QC based on the *Uniform Federal Policy-Quality Assurance Project Plan (QAPP) for Interim Facility-wide Groundwater Monitoring, Fort Wingate Depot Activity, McKinley County, New Mexico (October 2017)* and the *Department of Defense (DoD) Quality Systems Manual (QSM) for Environmental Laboratories, Version 5.0 (DoD 2013)*. Validation services were provided by Laboratory Data Consultants, Inc. (LDC).

This data quality assessment report (DQAR) summarizes the QA/QC evaluation of the data according to precision, accuracy, representativeness, completeness, comparability, and sensitivity (PARCCS) relative to the project quality objectives (PQOs). This report provides a quantitative and qualitative assessment of the data and identifies potential sources of error, uncertainty, and bias that may affect the overall usability.

The DQAR evaluates and summarizes the results of QA/QC data validation for the entire sampling program. Each analytical fraction has a separate section for each of the PARCCS criteria. These sections interpret specific QC deviations and their effects on both individual data points and the analyses as a whole. Section 15 presents a summary of the PARCCS criteria by comparing quantitative parameters with acceptability criteria defined in the PQOs. Qualitative PARCCS criteria are also summarized in this section.

Precision and Accuracy of Environmental Data

Environmental data quality depends on sample collection procedures, analytical methods and instrumentation, documentation, and sample matrix properties. Both sampling procedures and laboratory

analyses contain potential sources of uncertainty, error, and/or bias, which affect the overall quality of a measurement. Errors in sample data may result from incomplete equipment decontamination, inappropriate sampling techniques, sample heterogeneity, improper filtering, and improper preservation. The accuracy of analytical results is dependent on selecting appropriate analytical methods, maintaining equipment properly, and complying with QC requirements. The sample matrix also is an important factor in the ability to obtain precise and accurate results within a given media.

Environmental and laboratory QA/QC samples assess the effects of sampling procedures and evaluate laboratory contamination, laboratory performance, and matrix effects. QA/QC samples include: method blanks, trip blanks (TBs), equipment blank (EB), laboratory control sample/laboratory control sample duplicates (LCS/LCSDs), surrogate spikes, serial dilution, internal standards, laboratory duplicated (DUP), matrix spike/matrix spike duplicates (MS/MSDs), and field duplicate samples (FD).

Before conducting the PARCCS evaluation, the analytical data were validated according to the QAPP and DoD QSM. Samples not meeting the QAPP and DoD QSM acceptance criteria were qualified with a flag, an abbreviation indicating a deficiency with the data. The following are flags used in data validation.

- J Estimated The associated numerical value is an estimated quantity. It is not possible to assess the direction of the potential bias. The analyte was detected but the reported value may not be accurate or precise. The "J" qualification indicates the data fell outside the QC limits, but the exceedance was not sufficient to cause rejection of the data.
- R Rejected The data is unusable (the compound or analyte may or may not be present). Use of the "R" qualifier indicates a significant variance from functional guideline acceptance criteria. Either resampling or reanalysis is necessary to determine the presence or absence of the rejected analyte.
- U Nondetected Analyses were performed for the compound or analyte, but it was not detected. The "U" designation is also applied to suspected blank contamination. The "U" flag is used to qualify any result detected in an environmental sample at a concentration less than 5 times the blank value for other laboratory contaminants in any associated blank.
- UJ Estimated/Nondetected Analyses were performed for the compound or analyte, but it was not detected and the limit of detection (LOD) is an estimated quantity due to poor accuracy or precision. This qualification is also used to flag possible false negative results in the case where low bias in the analytical system is indicated by low calibration response, surrogate, internal standard, or other spike recovery.

Once the data are reviewed and qualified according to the QAPP and DoD QSM, the data set is then evaluated using PARCCS criteria. PARCCS criteria provide an evaluation of overall data usability. The following is a discussion of PARCCS criteria as related to the PQOs.

Precision is a measure of the agreement or reproducibility of analytical results under a given set of conditions. It is a quantity that cannot be measured directly but is calculated from percent recovery data.

Precision is expressed as the relative percent difference (RPD):

$$RPD = (D1 - D2) / \{1/2(D1 + D2)\} \times 100$$

Where:

D1 and D2 = the reported concentrations for sample and duplicate analyses.

Precision is primarily assessed by calculating a RPD from the percent recoveries of the spiked compounds for each sample in the MS/MSD pair. In the absence of a MS/MSD pair, a laboratory duplicate or LCS/LCSD pair can be analyzed as an alternative means of assessing precision. In some cases, samples from multiple SDGs were within one QC batch and therefore are associated with the same laboratory QC samples. An additional measure of sampling precision was obtained by collecting and analyzing field duplicate samples, which were compared using the RPD, as the evaluation criteria.

MS and MSD samples are field samples spiked by the laboratory with target analytes prior to preparation and analysis. These samples measure the overall efficiency of the analytical method in recovering target analytes from an environmental matrix. A LCS is similar to a MS/MSD sample in that the LCS is spiked with the same target analytes prior to preparation and analysis. However, the LCS is prepared using a controlled interference-free matrix instead of a field sample aliquot. Laboratory reagent water is used to prepare aqueous LCS. The LCS measures laboratory efficiency in recovering target analytes from an aqueous matrix in the absence of matrix interferences.

Laboratory and field sampling precision are further evaluated by calculating RPDs for field sample duplicate pairs. The sampler collects two field samples at the same location and under identically controlled conditions. The laboratory then analyzes the samples under identical conditions.

An RPD outside the numerical QC limit in either MS/MSD samples, LCS/LCSD, or field duplicates indicates imprecision. Imprecision is the variance in the consistency with which the laboratory arrives at a particular reported result. Thus, the actual analyte concentration may be higher or lower than the reported result.

Possible causes of poor precision include sample matrix interference, improper sample collection or handling, inconsistent sample preparation, and poor instrument stability. In some duplicate sets, results maybe reported in either the primary or duplicate samples at levels below the limit of quantitation (LOQ) or non-detected. Since these values are considered to be estimates, RPD exceedances from these duplicates do not suggest a significant impact on the data quality.

Accuracy is a measure of the agreement of an experimental determination and the true value of the parameter being measured. It is used to identify bias in a given measurement system. Recoveries outside acceptable QC limits may be caused by factors such as instrumentation, analyst error, or matrix interference. Accuracy is assessed through the analysis of MS, MSD, LCS, LCSD, and samples containing surrogate spikes. In some cases, samples from multiple SDGs were within one QC batch and therefore are associated with the same laboratory QC samples. Surrogate spikes are either isotopically labeled compounds or compounds that are not typically detected in the samples. Surrogate spikes are added to every blank, environmental sample, MS/MSD, LCS/LCSD and standard, for all applicable organic analyses.

Percent recovery (%R) is calculated using the following equation:

$$\%R = (A-B)/C \times 100$$

Where:

A = measured concentration in the spiked sample

B = measured concentration of the spike compound in the unspiked sample

C = concentration of the spike

The percent recovery of each analyte spiked in MS/MSD samples, LCS/LCSD, and surrogate compounds added to environmental samples is evaluated against the acceptance criteria specified by the previously

noted documents. Spike recoveries outside the acceptable QC accuracy limits provide an indication of bias, where the reported data may overestimate or underestimate the actual concentration of compounds detected or LODs reported for environmental samples.

Representativeness is a qualitative parameter that expresses the degree to which the sample data are characteristic of a population and is evaluated by reviewing the QC results of blank samples and holding times. Positive detects of compounds in the blank samples identify compounds that may have been introduced into the samples during sample collection, transport, preparation, or analysis. The QA/QC blanks collected and analyzed are method blanks, TBs, and EBs.

A method blank is a laboratory grade water or solid matrix that contains the method reagents and has undergone the same preparation and analysis as the environmental samples. The method blank provides a measure of the combined contamination derived from the laboratory source water, glassware, instruments, reagents, and sample preparation steps. Method blanks are prepared for each sample of a similar matrix extracted by the same method at a similar concentration level.

For inorganic analyses, initial and continuing calibration blanks (ICB/CCB) consist of acidified laboratory grade water, which are injected at the beginning and at a regular frequency during each 12 - hour sample analysis run. These blanks estimate residual contaminants from the previous sample or standards analysis and measure baseline shifts that commonly occur in emission and absorption spectroscopy.

Trip blanks are used to identify possible volatile organic contamination introduced into the sample during transport. A trip blank is a sample bottle filled in the laboratory with reagent-grade water and preserved to a pH less than 2 with hydrochloric acid. It is transported to the site, stored with the sample containers, and returned unopened to the laboratory for analysis.

Equipment blanks consist of analyte-free water poured over or through the sample collection equipment. The water is collected in a sample container for laboratory analysis. These blanks are collected after the sampling equipment is decontaminated and measure efficiency of the decontamination procedure.

Contaminants found in both the environmental sample and a blank sample are assumed to be laboratory artifacts if the concentration in the environmental sample is less than 5 times the blank value for all contaminants.

Holding times are evaluated to assure that the sample integrity is intact for accurate sample preparation and analysis. Holding times will be specific for each method and matrix analyzed. Holding time exceedances can cause loss of sample constituents due to biodegradation, precipitation, volatilization, and chemical degradation.

Comparability is a qualitative expression of the confidence with which one data set may be compared to another. It provides an assessment of the equivalence of the analytical results to data obtained from other analyses. It is important that data sets be comparable if they are used in conjunction with other data sets. The factors affecting comparability include the following: sample collection and handling techniques, matrix type, and analytical method. If these aspects of sampling and analysis are carried out according to standard analytical procedures, the data are considered comparable. Comparability can only be compared with confidence when precision, accuracy, and representativeness are known.

Completeness is defined as the percentage of acceptable sample results compared to the total number of sample results. Completeness is evaluated to determine if an acceptable amount of usable data were obtained so that a valid scientific site assessment can be completed. Completeness equals the total number

of sample results for each fraction minus the total number of rejected sample results divided by the total number of sample results multiplied by 100. As specified in the DQOs, the goal for completeness for target analytes in each analytical fraction is 90 percent.

Percent completeness is calculated using the following equation:

$$\%C = (T - R)/T \times 100$$

Where:

%C = percent completeness

T = total number of sample results

R = total number of rejected sample results

Completeness is also determined by comparing the planned number of samples per method and matrix as specified in the project planning document, with the number determined above.

Sensitivity is the ability of an analytical method or instrument to discriminate between measurement responses representing different concentrations. This capability is established during the planning phase to meet the data quality objectives (DQOs). It is important that calibration requirements, detection limits (DLs), and LOQs presented in the QAPP are achieved and that target analytes can be detected at concentrations necessary to support the DQOs. In addition, sample results are compared to method blank and field blank results to identify potential effects of laboratory background and field procedures on sensitivity.

The following sections present a review of QC data for each analytical method. The details regarding the qualification of results are provided in the data validation reports.

2.0 VOLATILE ORGANIC COMPOUNDS

A total of 79 water samples were analyzed for VOCs by EPA SW 846 Method 8260C. All VOC data were assessed to be valid since none of the 5,372 total results were rejected due to holding time or QC exceedances. This section discusses the QA/QC supporting documentation as defined by the PARCCS criteria and evaluated based on the PQOs.

2.1 Precision and Accuracy

2.1.1 Instrument Calibration

Initial and continuing calibration results provide a means of evaluating accuracy within a particular SDG. Relative response factor (RRF), percent relative standard deviation (%RSD), and percent difference (%D) are the major parameters used to measure the effectiveness of instrument calibration. RRF is a measure of the relative spectral response of an analyte compared to its internal standard. %RSD is an expression of the linearity of instrument response. %D is a comparison of a continuing calibration instrumental response with its initial response. %RSD and %D exceedances suggest routine instrumental anomalies, which typically impact all sample results for the affected compounds.

The %RSDs met the acceptance criteria of 15 percent for each individual compound. The coefficient of determination (r^2) was ≥ 0.990 in the initial calibration.

Due to the %Ds in initial calibration verifications outside the acceptance criteria of 20 percent, the p-isopropyltoluene and n-butylbenzene results in samples QC04052018TB, TMW01042018, and

TMW49042018 were qualified as non-detected estimated (UJ).

Due to the %Ds in continuing calibration verifications outside the acceptance criteria of 20 percent, 44 results in were qualified as non-detected estimated (UJ).

Due to the initial and continuing calibration RRF outside the acceptance criteria, the methyl acetate results in 72 samples were qualified as non-detected estimated (UJ).

2.1.2 Surrogates

Due to high surrogate %R, 24 results were qualified as detected estimated (J).

2.1.3 MS/MSD Samples

No data were qualified as a result of high MS/MSD %Rs since the associated samples were not detected.

All MS/MSD RPDs were within the acceptance criteria.

2.1.4 LCS/LCSD Samples

No data were qualified as a result of high LCS/LCSD %Rs since the associated samples were not detected.

All LCS/LCSD RPDs were within the acceptance criteria.

2.1.5 FD Samples

Although the field duplicate sample RPD was above the acceptance criteria for field duplicate samples MW23042018 and MW23042018FD, no data were qualified when one or both results were less than the limit of quantitation.

2.1.6 Internal Standards

All internal standard areas and retention areas were within acceptance criteria.

2.1.7 Proficiency Testing Samples

Proficiency testing (PT) samples were not performed for the sampling event.

2.1.8 Compound Quantitation and Target Identification

All compound quantitation and target identifications were found to be acceptable.

2.2 Representativeness

2.2.1 Holding Times

The evaluation of holding times to verify compliance with the method was conducted. All holding times were met.

As a result of headspace in sample TMW45042018, 68 results were qualified as non-detected estimated (UJ).

2.2.2 Blanks

Method blanks, TBs, and EBs were collected and analyzed to evaluate representativeness. The concentration for an individual target compound in any of the types of QA/QC blanks was used for data qualification.

If contaminants were detected in a blank, corrective actions were made for the chemical analytical data during data validation. The corrective action consisted of amending the laboratory reported results based on the following criteria.

Results Below or Above the LOQ If a sample result for the blank contaminant was less than the LOQ or greater than the sample LOQ and less than 5 times the blank value for all contaminants, the sample result for the blank contaminant was amended as a non-detect at the concentration reported in the sample results.

No Action If a sample result for the blank contaminant was greater than 5 times the blank value for all contaminants, the result was not amended.

2.2.2.1 Method Blanks

No data were qualified as a result of method blank contamination for this analysis.

2.2.2.2 EBs and TBs

As a result of equipment blank contamination, the acetone result in sample TMW41042018 and the methyl acetate results in samples TMW31S042018, TMW39S042018, TMW46042018, and TMW34042018 were qualified as non-detected (U).

As a result of trip blank contamination, 11 results in 10 associated samples were qualified as non-detected (U).

2.3 Comparability

The laboratory used standard analytical methods for all of the analyses. In all cases, the DLs and LODs attained were below the specified LOQs. The comparability of the data is regarded as acceptable.

2.4 Completeness

The completeness level attained for VOC field samples was 100 percent. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

2.5 Sensitivity

The calibration was evaluated for instrument sensitivity and was determined to be technically acceptable. All laboratory DLs and LOQs met the specified requirements described in the QAPP.

3.0 SEMIVOLATILE ORGANIC COMPOUNDS

A total of 48 water samples were analyzed for SVOCs by EPA SW 846 Method 8270D. All SVOC data were assessed to be valid with the exception of two of the 3,552 total results which were rejected due to MS/MSD %R. This section discusses the QA/QC supporting documentation as defined by the PARCC criteria and evaluated based on the PQOs.

3.1 Precision and Accuracy

3.1.1 Instrument Calibration

The %RSDs met the acceptance criteria of 15 percent or the coefficient of determination (r^2) was ≥ 0.990 in the initial calibration. The %Ds in the initial calibration met the acceptance criteria of 20%. All RRFs met the acceptance criteria.

Due to the %Ds in continuing calibration verifications outside the acceptance criteria of 20 percent, the 4-nitrophenol results in 20 samples were qualified as non-detected estimated (UJ).

3.1.2 Surrogates

All surrogate %Rs were within the acceptance criteria.

3.1.3 LCS/LCSD Samples

Due to low LCS/LCSD %Rs, 136 results were qualified as non-detected estimated (UJ).

Due to LCS/LCSD RPD outside the acceptance criteria, the benzidine results in six samples were qualified as non-detected estimated (UJ).

3.1.4 MS/MSD Samples

Due to low MS/MSD %Rs, fourteen results were qualified as non-detected estimated (UJ).

Due to extremely low (0%) MS/MSD %Rs, the benzidine results in samples M22D042018 and TMW43042018 were rejected (R).

No data were qualified as a result of MS/MSD RPDs outside the acceptance criteria since the associated samples were not detected.

3.1.5 FD Samples

Although the field duplicate sample RPDs were above the acceptance criteria for field duplicate samples TMW43042018 and TMW43042018FD and field duplicate samples TMW31D042018 and TMW31D042018FD, no data were qualified when one or both results were less than the limit of quantitation.

3.1.6 Internal Standards

All internal standard areas and retention times were within the acceptance criteria.

3.1.7 Proficiency Testing Samples

PT samples were not performed for the sampling event.

3.1.8 Compound Quantitation and Target Identification

All compound quantitation and target compound identifications were found to be acceptable.

3.2 Representativeness

3.2.1 Holding Times

As a result of exceeding holding time from sample collection until extraction, 86 results were qualified as detected estimated (J) or non-detected estimated (UJ).

3.2.2 Blanks

Method blanks and EBs were collected and analyzed to evaluate representativeness.

3.2.2.1 Method Blanks

No contaminants were detected in the method blanks for this analysis.

3.2.2.2 EBs

No data were qualified as a result of contaminants detected in the equipment blank for this analysis.

3.3 Comparability

The laboratory used standard analytical methods for all of the analyses. In all cases, the DLs and LODs attained were below the specified LOQs. The comparability of the data is regarded as acceptable.

3.4 Completeness

The completeness level attained for SVOC field samples was 99.9 percent. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

3.5 Sensitivity

The calibration was evaluated for instrument sensitivity and was determined to be technically acceptable. All laboratory DLs and LOQs met the specified requirements described in the QAPP.

4.0 CAPROLACTAM

A total of 48 water samples were analyzed for caprolactam by EPA SW846 Method 8270D. All caprolactam data were assessed to be valid with the exception of one of the 48 total results which was rejected due to extremely low LCS %R. This section discusses the QA/QC supporting documentation as defined by the PARCC criteria and evaluated based on the PQOs.

4.1 Precision and Accuracy

4.1.1 Instrument Calibration

The %RSDs met the acceptance criteria of 15 percent in the initial calibration. The %Ds for initial and continuing calibration verifications met the acceptance criteria of 20 percent. All RRFs met the acceptance criteria.

4.1.2 Surrogates

All surrogate %Rs were within the acceptance criteria.

4.1.3 LCS/LCSD Samples

Due to low LCS/LCSD %Rs, the caprolactam results in 34 results were qualified as non-detected estimated (UJ).

Due to extremely low (0%) LCS %R, the caprolactam result in sample TMW40S042018 was rejected (R).

All LCS/LCSD RPDs were within the acceptance criteria.

4.1.4 MS/MSD Samples

Due to low MS/MSD %Rs, the caprolactam results in samples MW23042018, BGMW02042018, and M22D042018 were qualified as non-detected estimated (UJ).

No data were qualified as a result of MS/MSD RPDs outside the acceptance criteria since the associated samples were not detected.

4.1.5 FD Samples

No caprolactam were detected in the field duplicate samples.

4.1.6 Internal Standards

All internal standard areas and retention times were within the acceptance criteria.

4.1.7 Proficiency Testing Samples

PT samples were not performed for the sampling event.

4.1.8 Compound Quantitation and Target Identification

All compound quantitation and target compound identifications were found to be acceptable.

4.2 Representativeness

4.2.1 Holding Times

As a result of exceeding holding time from sample collection until extraction, the caprolactam results in samples BGMW01042018, M22D042018, QC27042018EB, and TMW35042018 were qualified as non-

detected estimated (UJ).

4.2.2 Blanks

Method blanks and EBs were collected and analyzed to evaluate representativeness.

4.2.2.1 Method Blanks

No contaminants were detected in the method blanks for this analysis.

4.2.2.2 EBs

No contaminants were detected in the equipment blanks for this analysis.

4.3 Comparability

The laboratory used standard analytical methods for all of the analyses. In all cases, the DLs and LODs attained were below the specified LOQs. The comparability of the data is regarded as acceptable.

4.4 Completeness

The completeness level attained for caprolactam field samples was 97.9 percent. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

4.5 Sensitivity

The calibration was evaluated for instrument sensitivity and was determined to be technically acceptable. All laboratory DLs and LOQs met the specified requirements described in the QAPP.

5.0 CHLORINATED PESTICIDES

A total of 44 water samples were analyzed for chlorinated pesticides by EPA SW 846 Method 8081A. All chlorinated pesticide data were assessed to be valid with the exception of two of the 882 total results, which were rejected due to extremely low LCS %R. This section discusses the QA/QC supporting documentation as defined by the PARCCS criteria and evaluated based on the PQOs.

5.1 Precision and Accuracy

5.1.1 Instrument Calibration

The coefficient of determination (r^2) was ≥ 0.990 in the initial calibration.

Due to the %Ds in initial calibration verifications outside the acceptance criteria of 20 percent, the toxaphene results in 34 samples were qualified as non-detected estimated (UJ).

Due to the %Ds in continuing calibration verifications outside the acceptance criteria of 20 percent, the trans-chlordane results in 7 samples were qualified as non-detected estimated (UJ).

5.1.2 Surrogates

Due to low surrogate %R in sample TMW23042018, 21 results were qualified as non-detected estimated (UJ).

5.1.3 LCS/LCSD Samples

Due to extremely low LCS %R, the toxaphene results in samples BGMW02042018 and TMW30042018 were rejected (R).

Due to low LCS %R, the eight results were qualified as non-detected estimated (UJ).

No data were qualified as a result of high LCS %Rs since the associated samples were not detected. All LCS/LCSD RPDs were within the acceptance criteria.

5.1.4 MS/MSD Samples

No data were qualified as a result of high MS/MSD %Rs since the associated samples were not detected.

All MS/MSD RPDs were within the acceptance criteria.

5.1.5 FD Samples

No chlorinated pesticides were detected in the field duplicate samples.

5.1.6 Proficiency Testing Samples

PT samples were not performed for the sampling event.

5.1.7 Compound Quantitation and Target Identification

All compound quantitation and target compound identifications were found to be acceptable.

5.2 Representativeness

5.2.1 Holding Times

As a result of exceeding holding time from sample collection until extraction, 147 results were qualified as non-detected estimated (UJ).

5.2.2 Blanks

Method blanks and EBs were collected and analyzed to evaluate representativeness.

5.2.2.1 Method Blanks

No contaminants were detected in the method blanks for this analysis.

5.2.2.2 EBs

No contaminants were detected in the equipment blanks for this analysis.

5.3 Comparability

The laboratory used standard analytical methods for all of the analyses. In all cases, the DLs and LODs attained were below the specified LOQs. The comparability of the data is regarded as acceptable.

5.4 Completeness

The completeness level attained for chlorinated pesticide field samples was 99.8 percent. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

5.5 Sensitivity

The calibration was evaluated for instrument sensitivity and was determined to be technically acceptable. All laboratory DLs and LOQs met the specified requirements described in the QAPP.

6.0 POLYCHLORINATED BIPHEYNLS

A total of two water samples were analyzed for PCBs by EPA SW846 Method 8082A. All PCB data were assessed to be valid since none of the 14 total results were rejected due to holding time or QC exceedances. This section discusses the QA/QC supporting documentation as defined by the PARCCS criteria and evaluated based on the PQOs.

6.1 Precision and Accuracy

6.1.1 Instrument Calibration

The %Ds in the initial and continuing calibration verification met the acceptance criteria of 20 percent or the coefficient of determination (r^2) was ≥ 0.990 in the initial calibration.

6.1.2 Surrogates

All surrogate %Rs were within the acceptance criteria.

6.1.3 LCS Samples

All LCS %Rs were within the acceptance criteria.

6.1.4 Proficiency Testing Samples

PT samples were not performed for the sampling event.

6.1.5 Compound Quantitation and Target Identification

All compound quantitation and target compound identifications were found to be acceptable.

6.2 Representativeness

6.2.1 Holding Times

The evaluation of holding times to verify compliance with the method was conducted. All holding times

were met.

6.2.2 Blanks

Method blanks and EBs were collected and analyzed to evaluate representativeness.

6.2.2.1 Method Blanks

No contaminants were detected in the method blanks for this analysis.

6.2.2.2 EBs

No contaminants were detected in the equipment blanks for this analysis.

6.3 Comparability

The laboratory used standard analytical methods for all of the analyses. In all cases, the DLs and LODs attained were below the specified LOQs. The comparability of the data is regarded as acceptable.

6.4 Completeness

The completeness level attained for PCB field samples was 100 percent. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

6.5 Sensitivity

The calibration was evaluated for instrument sensitivity and was determined to be technically acceptable. All laboratory DLs and LOQs met the specified requirements described in the QAPP.

7.0 HERBICIDES

A total of two water samples were analyzed for herbicides by EPA SW 846 Method 8151A. All herbicide data were assessed to be valid since none of the 20 total results were rejected due to holding time or QC exceedances. This section discusses the QA/QC supporting documentation as defined by the PARCCS criteria and evaluated based on the PQOs.

7.1 Precision and Accuracy

7.1.1 Instrument Calibration

The %Ds in the initial calibration verification met the acceptance criteria of 20 percent or the coefficient of determination (r^2) was ≥ 0.990 in the initial calibration.

Due to the %Ds in continuing calibration verifications outside the acceptance criteria of 20 percent, the dinoseb, MCP, and MCPA results in samples QC27042018EB and the dicamba and MCP results in sample QC23042018BGMW EB were qualified as non-detected estimated (UJ).

7.1.2 Surrogates

All surrogate %Rs were within the acceptance criteria.

7.1.3 LCS/LCSD Samples

All LCS/LCSD %Rs and RPDs were within the acceptance criteria.

7.1.4 Proficiency Testing Samples

PT samples were not performed for the sampling event.

7.1.5 Compound Quantitation and Target Identification

All compound quantitation and target identifications were found to be acceptable.

7.2 Representativeness

7.2.1 Holding Times

The evaluation of holding times to verify compliance with the method was conducted. All holding times were met.

7.2.2 Blanks

Method blanks and EBs were collected and analyzed to evaluate representativeness.

7.2.2.1 Method Blanks

No contaminants were detected in the method blanks for this analysis.

7.2.2.2 EBs

No contaminants were detected in the equipment blanks for this analysis.

7.3 Comparability

The laboratory used standard analytical methods for all of the analyses. In all cases, the DLs and LODs attained were below the specified LOQs. The comparability of the data is regarded as acceptable.

7.4 Completeness

The completeness level attained for herbicides field samples was 100 percent. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

7.5 Sensitivity

The calibration was evaluated for instrument sensitivity and was determined to be technically acceptable. All laboratory DLs and LOQs met the specified requirements described in the QAPP.

8.0 GASOLINE RANGE ORGANICS

A total of 16 water samples were analyzed for GRO by EPA SW 846 Method 8015C. All GRO data were assessed to be valid since none of the 16 total results were rejected due to holding time or QC

exceedances. This section discusses the QA/QC supporting documentation as defined by the PARCCS criteria and evaluated based on the PQOs.

8.1 Precision and Accuracy

8.1.1 Instrument Calibration

The %RSDs met the acceptance criteria of 15 percent or the coefficient of determination (r^2) was ≥ 0.990 in the initial calibration. The %Ds in the initial and continuing calibration verifications met the acceptance criteria of 20 percent.

8.1.2 Surrogates

All surrogate %Rs were within the acceptance criteria.

8.1.3 LCS/LCSD Samples

All LCS/LCSD %Rs and RPDs were within the acceptance criteria.

8.1.4 MS/MSD Samples

Due to low MS/MSD %Rs, the GRO result in sample MW01042018 and MW18D042018 were qualified as detected estimated (J).

All MS/MSD RPDs were within the acceptance criteria.

8.1.5 FD Samples

No GRO were detected in the field duplicate samples for this analysis.

8.1.6 Proficiency Testing Samples

PT samples were not performed for the sampling event.

8.1.7 Compound Quantitation and Target Identification

All compound quantitation and target identifications were found to be acceptable.

8.2 Representativeness

8.2.1 Holding Times

The evaluation of holding times to verify compliance with the method was conducted. All holding times were met.

8.2.2 Blanks

Method blanks, TB, and EBs were collected and analyzed to evaluate representativeness.

8.2.2.1 Method Blanks

No contaminants were detected in the method blanks for this analysis.

8.2.2.2 TBs and EBs

No contaminants were detected in the trip blanks or equipment blanks for this analysis.

8.3 Comparability

The laboratory used standard analytical methods for all of the analyses. In all cases, the DLs and LODs attained were below the specified LOQs. The comparability of the data is regarded as acceptable.

8.4 Completeness

The completeness level attained for GRO field samples was 100 percent. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

8.5 Sensitivity

The calibration was evaluated for instrument sensitivity and was determined to be technically acceptable. All laboratory DLs and LOQs met the specified requirements described in the QAPP.

9.0 DIESEL RANGE ORGANICS

A total of 11 water samples were analyzed for DRO by EPA SW 846 Method 8015C. All DRO data were assessed to be valid since none of the 11 total results were rejected due to holding time or QC exceedances. This section discusses the QA/QC supporting documentation as defined by the PARCCS criteria and evaluated based on the PQOs.

9.1 Precision and Accuracy

9.1.1 Instrument Calibration

The %RSDs met the acceptance criteria of 15 percent or the coefficient of determination (r^2) was ≥ 0.990 in the initial calibration. The %Ds in the initial and continuing calibration verifications met the acceptance criteria of 20 percent.

9.1.2 Surrogates

All surrogate %Rs were within the acceptance criteria.

9.1.3 LCS/LCSD Samples

All LCS/LCSD %Rs and RPDs were within the acceptance criteria.

9.1.4 MS/MSD Samples

All MS/MSD %Rs and RPDs were within the acceptance criteria.

9.1.5 FD Samples

No DRO were detected in the field duplicate samples for this analysis.

9.1.6 Proficiency Testing Samples

PT samples were not performed for the sampling event.

9.1.7 Compound Quantitation and Target Identification

All compound quantitation and target identifications were found to be acceptable.

9.2 Representativeness

9.2.1 Holding Times

The evaluation of holding times to verify compliance with the method was conducted. All holding times were met.

9.2.2 Blanks

Method blanks were analyzed to evaluate representativeness.

9.2.2.1 Method Blanks

As a result of method blank contamination, the four DRO results were qualified as non-detected (U).

9.3 Comparability

The laboratory used standard analytical methods for all of the analyses. In all cases, the DLs and LODs attained were below the specified LOQs. The comparability of the data is regarded as acceptable.

9.4 Completeness

The completeness level attained for DRO field samples was 100 percent. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

9.5 Sensitivity

The calibration was evaluated for instrument sensitivity and was determined to be technically acceptable. All laboratory DLs and LOQs met the specified requirements described in the QAPP.

10.0 EXPLOSIVES

A total of 61 water samples were analyzed for explosives by EPA SW 846 Method 8330B. All explosive data were assessed to be valid since none of the 1,037 total results were rejected due to a holding time or QC exceedances. This section discusses the QA/QC supporting documentation as defined by the PARCC criteria and evaluated based on the PQOs.

10.1 Precision and Accuracy

10.1.1 Instrument Calibration

The %RSDs met the acceptance criteria of 15 percent or the coefficient of determination (r^2) was ≥ 0.990 in the initial calibration. The %Ds in the initial and continuing calibration verifications met the acceptance criteria of 20 percent.

10.1.2 Surrogates

Due to low surrogate %Rs, 484 results were qualified as detected estimated (J) or non-detected estimated (UJ).

10.1.3 LCS/LCSD Samples

Due to low LCS/LCSD %Rs, 322 results were qualified as detected estimated (J) or non-detected estimated (UJ).

Due to high LCS/LCSD RPD, the 3,5-dinitroaniline result in sample TMW40S042018 was qualified as detected estimated (J).

10.1.4 MS/MSD Samples

Due to low MS/MSD %Rs, 24 results were qualified as non-detected estimated (UJ).

All MS/MSD RPDs were within the acceptance criteria.

10.1.5 FD Samples

All FD RPDs were within the acceptance criteria for this analysis.

10.1.6 Proficiency Testing Samples

PT samples were not performed for the sampling event.

10.1.7 Compound Quantitation and Target Identification

All target compound identifications were found to be acceptable.

As a result of compound quantitation non-conformances (i.e., RPD between two columns), 10 results were qualified as detected estimated (J). Bias is indeterminate.

10.2 Representativeness

10.2.1 Holding Times

The evaluation of holding times to verify compliance with the method was conducted. All holding times were met.

10.2.2 Blanks

Method blanks and EBs were collected and analyzed to evaluate representativeness.

10.2.2.1 Method Blanks

No contaminants were detected in the method blanks for this analysis.

10.2.2.2 EBs

No contaminants were detected in the equipment blanks for this analysis.

10.3 Comparability

The laboratory used standard analytical methods for all of the analyses. In all cases, the DLs and LODs attained were below the specified LOQs. The comparability of the data is regarded as acceptable.

10.4 Completeness

The completeness level attained for explosive field samples was 100 percent. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

10.5 Sensitivity

The calibration was evaluated for instrument sensitivity and was determined to be technically acceptable. All laboratory DLs and LOQs met the specified requirements described in the QAPP.

11.0 PERCHLORATE

A total of 63 water samples were analyzed for perchlorate by EPA SW 846 Method 6860. All VOC data were assessed to be valid since none of the 63 total results were rejected due to holding time or QC exceedances. This section discusses the QA/QC supporting documentation as defined by the PARCCS criteria and evaluated based on the PQOs.

11.1 Precision and Accuracy

11.1.1 Instrument Calibration

The coefficient of determination (r^2) was ≥ 0.990 in the initial calibration. The %Ds in the initial and continuing calibration verifications met the acceptance criteria of 15 percent.

11.1.2 LCS Samples

No data were qualified as a result of high LCS %Rs since the associated samples were not detected.

11.1.3 MS/MSD Samples

Due to low MS %R, the perchlorate result in sample M22D042018 was qualified as detected estimated (J).

All MS/MSD RPDs were within the acceptance criteria.

11.1.4 FD Samples

All FD sample RPDs were within the acceptance criteria.

11.1.5 Interference Check Samples

All ICP interference check sample %Rs were within the acceptance criteria.

11.1.6 Internal Standards

All internal standard areas and retention areas were within acceptance criteria.

11.1.7 Proficiency Testing Samples

PT samples were not performed for the sampling event.

11.1.8 Compound Quantitation and Target Identification

All compound quantitation and target identifications were found to be acceptable.

11.2 Representativeness

11.2.1 Holding Times

As a result of exceeding holding time from sample collection until analysis, the perchlorate results in samples TMW01042018, TMW49042018, and MW23042018FD were qualified as detected estimated (J) or non-detected estimated (UJ).

11.2.2 Blanks

Method blanks and EBs were collected and analyzed to evaluate representativeness.

11.2.2.1 Method Blanks

No contaminants were detected in the method blanks for this analysis.

11.2.2.2 EBs

No contaminants were detected in the equipment blanks for this analysis.

11.3 Comparability

The laboratory used standard analytical methods for all of the analyses. In all cases, the DLs and LODs attained were below the specified LOQs. The comparability of the data is regarded as acceptable.

11.4 Completeness

The completeness level attained for perchlorate field samples was 100 percent. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results

multiplied by 100.

11.5 Sensitivity

The calibration was evaluated for instrument sensitivity and was determined to be technically acceptable. All laboratory DLs and LOQs met the specified requirements described in the QAPP.

12.0 METALS

A total of 70 water samples were analyzed for total and dissolved metals by EPA SW 846 Methods 6010C/6020A/7470A. All metals data were assessed to be valid since none of the 3,220 total results were rejected due to holding time or QC exceedances. This section discusses the QA/QC supporting documentation as defined by the PARCC criteria and evaluated based on the PQOs.

12.1 Precision and Accuracy

12.1.1 Instrument Calibration

Initial and continuing calibration verification results provide a means of evaluating accuracy within a particular SDG. Correlation coefficient (r) and percent recovery (%R) are the two major parameters used to measure the effectiveness of instrument calibration. The correlation coefficient indicates the linearity of the calibration curve. %R is used to verify the ongoing calibration acceptability of the analytical system. The most critical of the two calibration parameters, r, has the potential to affect data accuracy across a SDG when it is outside the acceptable QC limits. %R exceedances suggest more routine instrumental anomalies, which typically impact all sample results for the affected analytes.

The correlation coefficients in the initial calibrations were within the acceptance criteria of ≥ 0.995 . The %Rs in the continuing calibration verifications met the method acceptance criteria of 90-110 percent.

No data were qualified as a result of high initial calibration %Rs since the associated samples were not detected.

12.1.2 LCS/LCSD Samples

All LCS/LCSD %Rs and RPDs were within the acceptance criteria.

12.1.3 MS/MSD Samples

Due to high MS %R, the manganese result in sample M22D042018 was qualified as detected estimated (J).

Due to low MS/MSD %Rs, eight results in were qualified as detected estimated (J) or non-detected estimated (UJ).

All MS/MSD RPDs were within the acceptance criteria.

12.1.4 Serial Dilution

All serial dilution %Ds were within the acceptance criteria.

12.1.5 FD Samples

Due to field duplicate sample RPDs outside the acceptance criteria, the aluminum, iron, manganese, and barium results in field duplicate samples TMW34042018 and TMW34042018FD were qualified as detected estimated (J).

12.1.6 Internal Standards

All internal standard %Rs were within the acceptance criteria.

12.1.7 ICP Interference Check Sample

All ICP interference check sample %Rs were within the acceptance criteria.

12.1.8 Proficiency Testing Samples

PT samples were not performed for the sampling event.

12.1.9 Sample Result Verification

The dissolved iron result in sample TMW15042018 was greater than the total iron result.

12.2 Representativeness

12.2.1 Holding Times

The evaluation of holding times to verify compliance with the method was conducted. All holding times were met.

12.2.2 Blanks

Method blanks, calibration blanks, and EBs were analyzed to evaluate representativeness. The concentration for an individual target analyte in any of the QA/QC blanks was used for data qualification.

If contaminants were detected in a blank, corrective actions were made for the chemical analytical data during data validation. The corrective action consisted of amending the laboratory reported results based on the following criteria.

Results Below or Above the LOQ If a sample result for the blank contaminant was less than the LOQ or greater than the sample LOQ and less 5 times the method blank value or the highest applicable calibration blank value, the sample result for the blank contaminant was amended as a non-detect at the concentration reported in the sample results.

No Action If a sample result for the blank contaminant was greater than 5 times the method blank value or the highest applicable calibration blank value, the result was not amended.

12.2.2.1 Method and Calibration Blanks

As a result of method blank contamination, 47 results were qualified as non-detected (U).

As a result of calibration blank contamination, 75 results were qualified as non-detected (U).

12.2.2.2 EBs

As a result of equipment blank contamination, four manganese results, four iron results, and seven copper results in sample TMW30042018 were qualified as non-detected (U).

12.3 Comparability

The laboratory used standard analytical methods for all of the analyses. In all cases, the DLs and LODs attained were below the specified LOQs. Target compounds detected below the LOQs flagged (J) by the laboratory should be considered estimated. The comparability of the data is regarded as acceptable.

12.4 Completeness

The completeness level attained for metal field samples was 100 percent. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

12.5 Sensitivity

The calibration was evaluated for instrument sensitivity and was determined to be technically acceptable. All laboratory DLs and LOQs met the specified requirements described in the QAPP.

13.0 WET CHEMISTRY

A total of 71 water samples were analyzed for nitrate as nitrogen and nitrite as nitrogen by EPA SW 846 Method 9056A. All nitrate as nitrogen and nitrite as nitrogen data were assessed to be valid since none of the 142 total results were rejected due to holding time or QC exceedances. This section discusses the QA/QC supporting documentation as defined by the PARCCS criteria and evaluated based on the PQOs.

13.1 Precision and Accuracy

13.1.1 Instrument Calibration

The correlation coefficients in the initial calibrations and percent recoveries in the initial and continuing calibration verifications were within the acceptance criteria of ≥ 0.995 and 90-110 percent, respectively.

13.1.2 LCS/LCSD Samples

All LCS/LCSD %Rs and RPDs were within the acceptance criteria.

13.1.3 MS/MSD Samples

Due to high MS/MSD %R, the nitrate as nitrogen result in sample TMW31S042018 was qualified as detected estimated (J).

All MS/MSD RPDs were within the acceptance criteria.

13.1.4 DUP Samples

All DUP RPDs were within the acceptance criteria.

13.1.5 FD Samples

All field duplicate samples RPDs were within the acceptance criteria.

13.1.6 Proficiency Testing Samples

PT samples were not performed for the sampling event.

13.1.7 Sample Result Verification

All sample results were found to be acceptable.

13.2 Representativeness

13.2.1 Holding Times

As a result of exceeding holding time from sample collection until analysis, five nitrate as nitrogen results and four nitrite as nitrogen results were qualified as detected estimated (J) or non-detected estimated (UJ).

13.2.2 Blanks

Method blanks, calibration blanks, and equipment blanks were analyzed to evaluate representativeness.

13.2.2.1 Method and Calibration Blanks

No contaminants were detected in the method and calibration blanks for this analysis.

13.2.2.2 EBs Blanks

No contaminants were detected in the equipment blanks for this analysis.

13.3 Comparability

The laboratory used standard analytical methods for all of the analyses. In all cases, the DLs and LODs attained were below the specified LOQs. Target analytes detected below the LOQs flagged (J) by the laboratory should be considered estimated. The comparability of the data is regarded as acceptable.

13.4 Completeness

The completeness level attained for nitrate as nitrogen and nitrite as nitrogen field samples was 100 percent. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

13.5 Sensitivity

The calibration was evaluated for instrument sensitivity and was determined to be technically acceptable. All laboratory DLs and LOQs met the specified requirements described in the QAPP.

14.0 VARIANCES IN ANALYTICAL PERFORMANCE

The laboratory used standard analytical methods for all of the analyses throughout the project. No

systematic variances in analytical performance were noted according to the case narratives.

15.0 SUMMARY OF PARCCS CRITERIA

The validation reports present the PARCCS results for all SDGs. Each PARCCS criterion is discussed in detail in the following sections.

15.1 Precision and Accuracy

Precision and accuracy were evaluated using data quality indicators such as calibration, MS/MSD, LCS/LCSD, and surrogates. The precision and accuracy of the data set were considered acceptable with the exceptions noted below.

High surrogate and MS %Rs indicate that the VOC, metals, wet chemistry results may be biased high for the associated samples.

Low surrogate, MS/MSD, or LCS/LCSD %Rs indicate that the SVOC, caprolactam, chlorinated pesticides, GRO, explosive, perchlorate, and metal and results may be biased low for the associated samples.

Bias cannot be determined for associated VOC, SVOC, chlorinated pesticide, herbicide, and metals results when initial and continuing calibration RRF, initial and continuing calibration verification %D, FD RPDs, or RPDs between two columns are outside acceptance limits.

15.2 Representativeness

All samples for each method and matrix were evaluated for holding time compliance. All holding time and sample condition requirements were met with the exceptions noted in Sections 2.2.1, 3.2.1, 4.2.1, 5.2.1, 11.2.1, and 13.2.1. All samples were associated with a method blank in each individual SDG. The representativeness of the project data is considered acceptable.

15.3 Comparability

Sampling frequency requirements were met. The laboratory used standard analytical methods for their analyses. The analytical results were reported in correct standard units. Holding times, sample preservation, and sample integrity were within QC criteria.

15.4 Completeness

Of the 14,377 total analytes reported, five sample results were rejected. The completeness for all SDGs is as follows:

Parameter	Total Analytes	No. of Rejects	% Completeness
VOCs	5,372	0	100
SVOCs	3,552	2	99.9
Caprolactam	48	1	97.9
Chlorinated Pesticides	882	2	99.8
PCBs	14	0	100
Herbicides	20	0	100
GRO	16	0	100
DRO	11	0	100
Explosives	1,037	0	100
Perchlorate	63	0	100

Metals	3,220	0	100
Nitrate as Nitrogen/Nitrite as Nitrogen	142	0	100
Total	14,377	5	99.9

The completeness percentage based on rejected data met the 90 percent PQO goal. A less quantifiable loss of data occurred in the application of blank qualifications as noted in Sections 2.2.2.2, 9.2.2.1, 12.2.2.1, and 12.2.2.2.

15.5 Sensitivity

Sensitivity was achieved by the laboratory to support the DQOs. Calibration concentrations, DLs, and LOQs met the project requirements and low level contamination in the method and calibration blanks, trip blanks, and equipment blanks did not affect sensitivity.

Table I

Validation Sample Table

Table I

LDC	SDG	Client Sample ID	Lab Sample ID	Matrix	QC Type	Sample Date	Validation Level	Metals (6020A/6010C/7470A)	Dissolved Metals (6020A/6010C/7470A)	Perchlorate (6860)	Pesticides (8081A)	PCBs (8082A)	Herbicides (8151A)	VOC (8260C)	SVOC (8270D)	Caprolactam (8270D)	Explosives (8330B)	Nitrate as N & Nitrite as N (9056A)	DRO (8015C)	GRO (8015C)
42265A	16027980-1	FW31042018	160-27980-1	Water		4/23/2018	Level III							X						
42265A	16027980-1	MW01042018	160-27980-2	Water		4/23/2018	Level III							X						
42265A	16027980-1	MW02042018	160-27980-3	Water		4/23/2018	Level III							X						
42265A	16027980-1	MW24042018	160-27980-4	Water	FD1	4/23/2018	Level III							X						
42265A	16027980-1	MW24042018FD	160-27980-5	Water	FD1	4/23/2018	Level III							X						
42265A	16027980-1	QC23042018EB2	160-27980-6	Water	EB	4/23/2018	Level III							X						
42265A	16027980-1	QC23042018TB	160-27980-7	Water	TB	4/23/2018	Level III							X						
42265A	16027980-1	TMW29042018	160-27980-8	Water		4/23/2018	Level III							X						
42265B	16028023-1	MW18D042018	160-28023-1	Water		4/25/2018	Level IV							X						
42265B	16028023-1	QC25042018TB	160-28023-2	Water	TB	4/25/2018	Level III							X						
42265B	16028023-1	TMW07042018	160-28023-3	Water		4/25/2018	Level III							X						
42265B	16028023-1	TMW16042018	160-28023-4	Water		4/25/2018	Level IV							X						
42265B	16028023-1	TMW18042018	160-28023-5	Water		4/25/2018	Level III							X						
42265B	16028023-1	TMW19042018	160-28023-6	Water		4/25/2018	Level III							X						
42265B	16028023-1	TMW22042018	160-28023-7	Water		4/25/2018	Level III							X						
42265B	16028023-1	TMW23042018	160-28023-8	Water		4/25/2018	Level III							X						
42265B	16028023-1	TMW31S042018	160-28023-9	Water		4/25/2018	Level IV							X						
42265B	16028023-1	TMW33042018	160-28023-10	Water		4/25/2018	Level IV							X						
42265B	16028023-1	TMW36042018	160-28023-11	Water		4/25/2018	Level III							X						
42265B	16028023-1	TMW37042018	160-28023-12	Water		4/25/2018	Level IV							X						
42265B	16028023-1	TMW39S042018	160-28023-13	Water		4/25/2018	Level III							X						
42265B	16028023-1	TMW40S042018	160-28023-14	Water		4/25/2018	Level IV							X						
42265B	16028023-1	TMW41042018	160-28023-15	Water		4/25/2018	Level III							X						
42265B	16028023-1	TMW44042018	160-28023-16	Water		4/25/2018	Level III							X						

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42265B	16028023-1	TMW46042018	160-28023-17	Water		4/25/2018	Level III							X						
42265C	16028024-1	BGMW03042018	160-28024-1	Water		4/24/2018	Level III							X						
42265C	16028024-1	MW23042018	160-28024-2	Water	FD2	4/24/2018	Level III							X						
42265C	16028024-1	MW23042018FD	160-28024-3	Water	FD2	4/24/2018	Level III							X						
42265C	16028024-1	QC24042018TB	160-28024-4	Water	TB	4/24/2018	Level III							X						
42265C	16028024-1	TMW10042018	160-28024-5	Water		4/24/2018	Level III							X						
42265D	16028067-1	BGMW02042018	160-28067-1	Water		4/26/2018	Level III							X						
42265D	16028067-1	QC26042018TB	160-28067-2	Water	TB	4/26/2018	Level III							X						
42265D	16028067-1	SMW01042018	160-28067-3	Water		4/26/2018	Level III							X						
42265D	16028067-1	TMW26042018	160-28067-4	Water	FD3	4/26/2018	Level III							X						
42265D	16028067-1	TMW26042018FD	160-28067-5	Water	FD3	4/26/2018	Level III							X						
42265D	16028067-1	TMW27042018	160-28067-6	Water		4/26/2018	Level III							X						
42265D	16028067-1	TMW28042018	160-28067-7	Water		4/26/2018	Level III							X						
42265D	16028067-1	TMW30042018	160-28067-8	Water		4/26/2018	Level III							X						
42265E	16028070-1	BGMW01042018	160-28070-1	Water		4/27/2018	Level III							X						
42265E	16028070-1	MW03042018	160-28070-2	Water		4/27/2018	Level III							X						
42265E	16028070-1	MW22D042018	160-28070-3	Water		4/27/2018	Level III							X						
42265E	16028070-1	QC27042018EB	160-28070-4	Water	EB	4/27/2018	Level III							X						
42265E	16028070-1	QC27042018TB	160-28070-5	Water	TB	4/27/2018	Level III							X						
42265E	16028070-1	TMW08042018	160-28070-6	Water		4/27/2018	Level III							X						
42265E	16028070-1	TMW34042018	160-28070-7	Water	FD4	4/27/2018	Level III							X						
42265E	16028070-1	TMW34042018FD	160-28070-8	Water	FD4	4/27/2018	Level III							X						
42265E	16028070-1	TMW35042018	160-28070-9	Water		4/27/2018	Level III							X						
42265F	16028091-1	MW20042018	160-28091-1	Water		4/30/2018	Level III							X						

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42265F	16028091-1	QC30042018TB	160-28091-2	Water	TB	4/30/2018	Level III							X						
42265F	16028091-1	TMW03042018	160-28091-3	Water		4/30/2018	Level III							X						
42265F	16028091-1	TMW06042018	160-28091-4	Water		4/30/2018	Level III							X						
42265F	16028091-1	TMW24042018	160-28091-5	Water		4/30/2018	Level III							X						
42265F	16028091-1	TMW25042018	160-28091-6	Water		4/30/2018	Level III							X						
42315A	16028148-1	QC01052018TB	160-28148-1	Water	TB	5/1/2018	Level III							X						
42315A	16028148-1	TMW02042018	160-28148-2	Water		5/1/2018	Level III							X						
42315A	16028148-1	TMW13042018	160-28148-3	Water		5/1/2018	Level III							X						
42315A	16028148-1	TMW21042018	160-28148-4	Water		5/1/2018	Level III							X						
42315A	16028148-1	TMW32042018	160-28148-5	Water		5/1/2018	Level III							X						
42315A	16028148-1	TMW38042018	160-28148-6	Water		5/1/2018	Level III							X						
42315A	16028148-1	TMW40D042018	160-28148-7	Water		5/1/2018	Level III							X						
42315B	16028164-1	QC02052018TB	160-28164-1	Water	TB	5/2/2018	Level III							X						
42315B	16028164-1	TMW45042018	160-28164-2	Water		5/2/2018	Level III							X						
42315B	16028164-1	TMW11042018	160-28164-3	Water		5/2/2018	Level III							X						
42315B	16028164-1	TMW48042018	160-28164-4	Water		5/2/2018	Level III							X						
42315B	16028164-1	TMW43042018	160-28164-5	Water	FD5	5/2/2018	Level III							X						
42315B	16028164-1	TMW43042018FD	160-28164-6	Water	FD5	5/2/2018	Level III							X						
42315B	16028164-1	TMW04042018	160-28164-7	Water		5/2/2018	Level III							X						
42315B	16028164-1	TMW31D042018	160-28164-8	Water	FD6	5/2/2018	Level III							X						
42315B	16028164-1	TMW31D042018FD	160-28164-9	Water	FD6	5/2/2018	Level III							X						
42315C	16028185-1	QC03052018TB	160-28185-1	Water	TB	5/3/2018	Level III							X						
42315C	16028185-1	TMW14A042018	160-28185-2	Water		5/3/2018	Level IV							X						
42315C	16028185-1	TMW15042018	160-28185-3	Water	FD7	5/3/2018	Level III							X						

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42315C	16028185-1	TMW15042018FD	160-28185-4	Water	FD7	5/3/2018	Level III							X						
42315C	16028185-1	TMW17042018	160-28185-5	Water		5/3/2018	Level IV							X						
42315C	16028185-1	TMW39D042018	160-28185-6	Water		5/3/2018	Level III							X						
42315C	16028185-1	TMW47042018	160-28185-7	Water		5/3/2018	Level IV							X						
42451A	16028206-1	QC04052018TB	160-28206-1	Water	TB	5/4/2018	Level III							X						
42451A	16028206-1	TMW01042018	160-28206-2	Water		5/4/2018	Level III							X						
42451A	16028206-1	TMW49042018	160-28206-3	Water		5/4/2018	Level III							X						
42347A	280108874-1	FW31042018	280-108874-1	Water		4/23/2018	Level III	X	X		X				X		X	X		
42315D	280108874-2	FW31042018	280-108874-1	Water		4/23/2018	Level III									X				
42347A	280108874-1	MW01042018	280-108874-2	Water		4/23/2018	Level III	X	X	X	X						X	X	X	X
42347A	280108874-1	MW02042018	280-108874-3	Water		4/23/2018	Level III	X	X	X							X	X		X
42347A	280108874-1	MW24042018	280-108874-4	Water	FD8	4/23/2018	Level III	X	X	X	X			X			X	X		
42315D	280108874-2	MW24042018	280-108874-4	Water	FD8	4/23/2018	Level III									X				
42347A	280108874-1	MW24042018FD	280-108874-5	Water	FD8	4/23/2018	Level III	X	X	X	X			X			X	X		
42315D	280108874-2	MW24042018FD	280-108874-5	Water	FD8	4/23/2018	Level III									X				
42347A	280108874-1	QC23042018BGMW EB	280-108874-6	Water	EB	4/23/2018	Level III	X	X	X	X	X	X		X		X	X		
42315D	280108874-2	QC23042018BGMW EB	280-108874-6	Water	EB	4/23/2018	Level III									X				
42347A	280108874-1	QC23042018EB2	280-108874-7	Water	EB	4/23/2018	Level III	X	X	X	X			X			X	X		X
42315D	280108874-2	QC23042018EB2	280-108874-7	Water	EB	4/23/2018	Level III									X				
42347A	280108874-1	QC23042018TBGRO	280-108874-8	Water	TB	4/23/2018	Level III													X
42347A	280108874-1	TMW29042018	280-108874-9	Water		4/23/2018	Level III	X	X	X							X	X		
42347B	280108983-2	TMW07042018	280-108983-3	Water		4/25/2018	Level III									X				
42347B	280108983-2	TMW16042018	280-108983-4	Water		4/25/2018	Level III									X				
42347B	280108983-2	TMW18042018	280-108983-5	Water		4/25/2018	Level III									X				

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42347B	280108983-2	TMW19042018	280-108983-6	Water		4/25/2018	Level III									X				
42347B	280108983-2	TMW22042018	280-108983-7	Water		4/25/2018	Level III									X				
42347B	280108983-2	TMW31S042018	280-108983-9	Water		4/25/2018	Level III									X				
42347B	280108983-2	TMW33042018	280-108983-10	Water		4/25/2018	Level III									X				
42347B	280108983-2	TMW36042018	280-108983-11	Water		4/25/2018	Level III									X				
42347B	280108983-2	TMW37042018	280-108983-12	Water		4/25/2018	Level III									X				
42347B	280108983-2	TMW39S042018	280-108983-13	Water		4/25/2018	Level III									X				
42347B	280108983-2	TMW41042018	280-108983-15	Water		4/25/2018	Level III									X				
42347B	280108983-2	TMW44042018	280-108983-16	Water		4/25/2018	Level III									X				
42347B	280108983-2	TMW46042018	280-108983-17	Water		4/25/2018	Level III									X				
42347B	280108983-2	BGMW03042018	280-108983-18	Water		4/24/2018	Level III									X				
42347B	280108983-2	MW23042018	280-108983-20	Water	FD9	4/24/2018	Level III									X				
42347B	280108983-2	MW23042018FD	280-108983-21	Water	FD9	4/24/2018	Level III									X				
42347C	280109042-1	BGMW02042018	280-109042-1	Water		4/26/2018	Level III	X	X	X	X				X		X	X		
42347D	280109042-2	BGMW02042018	280-109042-1	Water		4/26/2018	Level III									X				
42347C	280109042-1	SMW01042018	280-109042-2	Water		4/26/2018	Level III	X	X	X					X		X	X		
42347D	280109042-2	SMW01042018	280-109042-2	Water		4/26/2018	Level III									X				
42347C	280109042-1	TMW26042018	280-109042-3	Water	FD10	4/26/2018	Level III	X	X	X							X	X		
42347C	280109042-1	TMW27042018	280-109042-4	Water		4/26/2018	Level III	X	X	X										
42347C	280109042-1	TMW28042018	280-109042-5	Water		4/26/2018	Level III	X	X									X		
42347C	280109042-1	TMW30042018	280-109042-6	Water		4/26/2018	Level III	X	X	X	X				X		X	X		
42347D	280109042-2	TMW30042018	280-109042-6	Water		4/26/2018	Level III									X				
42347C	280109042-1	TMW40S042018	280-109042-7	Water		4/25/2018	Level III	X	X	X										
42347C	280109042-1	TMW26042018FD	280-109042-8	Water	FD10	4/26/2018	Level III	X	X	X							X	X		

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42347I	280109120-1	BGMW01042018	280-109120-1	Water		4/27/2018	Level III				X				X					
42398A	280109120-2	BGMW01042018	280-109120-1	Water		4/27/2018	Level III									X				
42347I	280109120-1	BGMW01042018	280-109120-1	Water		4/27/2018	Level IV	X	X	X							X	X		
42347I	280109120-1	BGMW030420182	280-109120-2	Water		4/27/2018	Level IV											X		
42347I	280109120-1	MW020420182	280-109120-3	Water		4/27/2018	Level III											X		
42347I	280109120-1	MW03042018	280-109120-4	Water		4/27/2018	Level III											X	X	X
42347I	280109120-1	MW03042018	280-109120-4	Water		4/27/2018	Level IV	X	X	X							X			
42347I	280109120-1	M22D042018	280-109120-5	Water		4/27/2018	Level III	X	X	X	X				X		X	X	X	X
42398A	280109120-2	M22D042018	280-109120-5	Water		4/27/2018	Level III									X				
42347I	280109120-1	QC27042018EB	280-109120-6	Water	EB	4/27/2018	Level III	X	X	X	X	X	X		X		X	X		
42398A	280109120-2	QC27042018EB	280-109120-6	Water	EB	4/27/2018	Level III									X				
42347I	280109120-1	QC27042018TBGRO	280-109120-7	Water	TB	4/27/2018	Level III													X
42347I	280109120-1	TMW08042018	280-109120-8	Water		4/27/2018	Level III	X	X	X	X							X	X	X
42347I	280109120-1	TMW100420182	280-109120-9	Water		4/27/2018	Level III											X		
42347I	280109120-1	TMW34042018	280-109120-10	Water	FD11	4/27/2018	Level III	X	X	X								X	X	X
42347I	280109120-1	TMW34042018FD	280-109120-11	Water	FD11	4/27/2018	Level III	X	X	X								X	X	X
42347I	280109120-1	TMW35042018	280-109120-12	Water		4/27/2018	Level IV	X	X	X	X				X			X	X	X
42398A	280109120-2	TMW35042018	280-109120-12	Water		4/27/2018	Level III									X				
42347I	280109120-1	TMW40S042018	280-109120-13	Water		4/25/2018	Level IV				X				X					
42398A	280109120-2	TMW40S042018	280-109120-13	Water		4/27/2018	Level III									X				
42398B	280109162-1	MW20042018	280-109162-1	Water		4/30/2018	Level III	X	X	X	X				X		X	X	X	X
42398C	280109162-2	MW20042018	280-109162-1	Water		4/30/2018	Level III									X				
42398B	280109162-1	QC30042018TBGRO	280-109162-2	Water	TB	4/30/2018	Level III													X
42398B	280109162-1	TMW03042018	280-109162-3	Water		4/30/2018	Level III	X	X	X					X		X	X		

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42398C	280109162-2	TMW03042018	280-109162-3	Water		4/30/2018	Level III									X				
42398B	280109162-1	TMW06042018	280-109162-4	Water		4/30/2018	Level III	X	X					X			X	X		
42398C	280109162-2	TMW06042018	280-109162-4	Water		4/30/2018	Level III									X				
42398B	280109162-1	TMW24042018	280-109162-5	Water		4/30/2018	Level III	X	X	X	X						X	X		
42398B	280109162-1	TMW25042018	280-109162-6	Water		4/30/2018	Level III	X	X								X	X		
42398F	280109210-1	TMW02042018	280-109210-1	Water		5/1/2018	Level III	X	X	X							X	X		
42398F	280109210-1	TMW13042018	280-109210-2	Water		5/1/2018	Level III	X	X	X								X		
42398F	280109210-1	TMW21042018	280-109210-3	Water		5/1/2018	Level IV	X	X	X							X	X		
42398F	280109210-1	TMW32042018	280-109210-4	Water		5/1/2018	Level IV	X	X	X	X			X			X	X		
42398G	280109210-2	TMW32042018	280-109210-4	Water		5/1/2018	Level IV									X				
42398F	280109210-1	TMW38042018	280-109210-5	Water		5/1/2018	Level III	X	X	X	X			X			X	X		
42398G	280109210-2	TMW38042018	280-109210-5	Water		5/1/2018	Level III									X				
42398F	280109210-1	TMW40D042018	280-109210-6	Water		5/1/2018	Level III	X	X	X	X			X			X	X		
42398G	280109210-2	TMW40D042018	280-109210-6	Water		5/1/2018	Level III									X				
42451B	280109272-1	TMW45042018	280-109272-1	Water		5/2/2018	Level III	X	X	X	X			X			X	X		
42347J	280109272-2	TMW45042018	280-109272-1	Water		5/2/2018	Level IV									X				
42451B	280109272-1	TMW11042018	280-109272-2	Water		5/2/2018	Level III	X	X	X							X	X		
42451B	280109272-1	TMW48042018	280-109272-3	Water		5/2/2018	Level III	X	X	X	X			X			X	X		
42347J	280109272-2	TMW48042018	280-109272-3	Water		5/2/2018	Level IV									X				
42451B	280109272-1	TMW43042018	280-109272-4	Water	FD12	5/2/2018	Level III	X	X	X	X			X			X	X		
42347J	280109272-2	TMW43042018	280-109272-4	Water	FD12	5/2/2018	Level IV									X				
42451B	280109272-1	TMW43042018FD	280-109272-5	Water	FD12	5/2/2018	Level III	X	X	X	X			X			X	X		
42347J	280109272-2	TMW43042018FD	280-109272-5	Water	FD12	5/2/2018	Level IV									X				
42451B	280109272-1	TMW04042018	280-109272-6	Water		5/2/2018	Level III	X	X	X				X			X	X		

EB = Equipment Blank TB = Trip Blank FD = Field Duplicate Sample

All Method Acronyms are defined in the Glossory
Fort Wingate, GWM

Table I

LDC	SDG	Client Sample ID	Lab Sample ID	Matrix	QC Type	Sample Date	Validation Level	Metals (6020A/6010C/7470A)	Dissolved Metals (6020A/6010C/7470A)	Perchlorate (6860)	Pesticides (8081A)	PCBs (8082A)	Herbicides (8151A)	VOC (8260C)	SVOC (8270D)	Caprolactam (8270D)	Explosives (8330B)	Nitrate as N & Nitrite as N (9056A)	DRO (8015C)	GRO (8015C)
42347J	280109272-2	TMW04042018	280-109272-6	Water		5/2/2018	Level IV									X				
42451B	280109272-1	TMW31D042018	280-109272-7	Water	FD13	5/2/2018	Level III	X	X	X	X			X		X	X			
42347J	280109272-2	TMW31D042018	280-109272-7	Water	FD13	5/2/2018	Level IV									X				
42451B	280109272-1	TMW31D042018FD	280-109272-8	Water	FD13	5/2/2018	Level III	X	X	X	X			X		X	X			
42347J	280109272-2	TMW31D042018FD	280-109272-8	Water	FD13	5/2/2018	Level III									X				
42398H	280109350-1	MW22D0420182	280-109350-1	Water		5/3/2018	Level III											X		
42398H	280109350-1	TMW14A042018	280-109350-2	Water		5/3/2018	Level III	X	X					X		X	X			
42347L	280109350-2	TMW14A042018	280-109350-2	Water		5/3/2018	Level III									X				
42398H	280109350-1	TMW15042018	280-109350-3	Water	FD14	5/3/2018	Level III	X	X	X				X		X	X			
42347L	280109350-2	TMW15042018	280-109350-3	Water	FD14	5/3/2018	Level III									X				
42398H	280109350-1	TMW15042018FD	280-109350-4	Water	FD14	5/3/2018	Level III	X	X	X				X		X	X			
42347L	280109350-2	TMW15042018FD	280-109350-4	Water	FD14	5/3/2018	Level III									X				
42398H	280109350-1	TMW17042018	280-109350-5	Water		5/3/2018	Level III	X	X	X								X		
42398H	280109350-1	TMW39D042018	280-109350-6	Water		5/3/2018	Level III	X	X	X	X			X		X	X			
42347L	280109350-2	TMW39D042018	280-109350-6	Water		5/3/2018	Level III									X				
42398H	280109350-1	TMW47042018	280-109350-7	Water		5/3/2018	Level III	X	X	X	X			X		X	X			
42347L	280109350-2	TMW47042018	280-109350-7	Water		5/3/2018	Level III									X				
42451C	280109417-1	TMW01042018	280-109417-1	Water		5/4/2018	Level III	X	X	X							X	X		
42451C	280109417-1	TMW49042018	280-109417-2	Water		5/4/2018	Level IV	X	X	X	X			X		X	X			
42347M	280109417-2	TMW49042018	280-109417-2	Water		5/4/2018	Level III									X				
42529A	280108983-1	MW18D042018	280-108983-1	Water		4/25/2018	Level IV	X	X	X							X	X	X	X
42529A	280108983-1	QC25042018TBGRO	280-108983-2	Water	TB	4/25/2018	Level III													X
42529A	280108983-1	TMW07042028	280-108983-3	Water		4/25/2018	Level III	X	X					X		X	X			
42529A	280108983-1	TMW16042028	280-108983-4	Water		4/25/2018	Level III	X	X	X				X		X				

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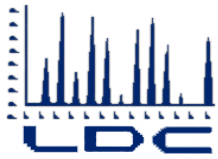
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Table I

LDC	SDG	Client Sample ID	Lab Sample ID	Matrix	QC Type	Sample Date	Validation Level	Metals (6020A/6010C/7470A)	Dissolved Metals (6020 A/6010C/7470A)	Perchlorate (6860)	Pesticides (8081A)	PCBs (8082A)	Herbicides (8151A)	VOC (8260C)	SVOC (8270D)	Caprolactam (8270D)	Explosives (8330B)	Nitrate as N & Nitrite as N (9056A)	DRO (8015C)	GRO (8015C)
42529A	280108983-1	TMW18042028	280-108983-5	Water		4/25/2018	Level IV	X	X	X					X		X	X		
42529A	280108983-1	TMW19042028	280-108983-6	Water		4/25/2018	Level III	X	X	X					X		X			
42529A	280108983-1	TMW22042028	280-108983-7	Water		4/25/2018	Level III	X	X	X					X		X	X		
42529A	280108983-1	TMW23042028	280-108983-8	Water		4/25/2018	Level III	X	X	X	X						X	X		
42529A	280108983-1	TMW31S042028	280-108983-9	Water		4/25/2018	Level III	X	X	X	X				X		X	X		
42529A	280108983-1	TMW33042028	280-108983-10	Water		4/25/2018	Level III	X	X						X			X	X	X
42529A	280108983-1	TMW36042028	280-108983-11	Water		4/25/2018	Level III	X	X	X	X				X		X	X		
42529A	280108983-1	TMW37042028	280-108983-12	Water		4/25/2018	Level III	X	X	X	X				X		X	X		
42529A	280108983-1	TMW39S042028	280-108983-13	Water		4/25/2018	Level III	X	X	X	X				X		X	X		
42529A	280108983-1	TMW40S042028	280-108983-14	Water		4/25/2018	Level III										X	X		
42529A	280108983-1	TMW41042028	280-108983-15	Water		4/25/2018	Level III	X	X	X	X				X		X	X		
42529A	280108983-1	TMW44042028	280-108983-16	Water		4/25/2018	Level III	X	X	X	X				X		X	X		
42529A	280108983-1	TMW46042028	280-108983-17	Water		4/25/2018	Level III	X	X	X	X				X		X	X		
42529A	280108983-1	BGMW03042028	280-108983-18	Water		4/25/2018	Level III	X	X	X	X				X		X	X		
42529A	280108983-1	MW02042028	280-108983-19	Water		4/25/2018	Level III				X								X	
42529A	280108983-1	MW23042028	280-108983-20	Water	FD15	4/24/2018	Level III	X	X	X	X				X		X	X		
42529A	280108983-1	MW23042028FD	280-108983-21	Water	FD15	4/24/2018	Level III	X	X	X	X				X		X	X		
42529A	280108983-1	TMW10042028	280-108983-22	Water		4/24/2018	Level III	X	X	X							X	X		

EB = Equipment Blank TB = Trip Blank FD = Field Duplicate Sample

All Method Acronyms are defined in the Glossory
Fort Wingate, GWM



LABORATORY DATA CONSULTANTS, INC.

2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760-827-1100 Fax: 760-827-1099

Sundance Consulting, Inc.
6700 Jefferson St. NE
Albuquerque, NM 87109
ATTN: Ms. Catherine Drumheller

July 20, 2018

**SUBJECT: Data Quality Assessment Report
 Interim Facility-Wide
 Groundwater Monitoring
 Fort Wingate Depot Activity
 McKinley County, New Mexico**

Dear Ms. Drumheller,

Enclosed is the Data Quality Assessment Report for Interim Facility-Wide, Groundwater Monitoring, Fort Wingate Depot Activity, McKinley County, New Mexico

We appreciate this opportunity to support Sundance in the performance of this project.

Please feel free to contact us if you have any questions.

Sincerely,

Christina Rink
Project Manager/Senior Chemist

DATA QUALITY ASSESSMENT REPORT

**INTERIM FACILITY-WIDE
GROUNDWATER MONITORING
FORT WINGATE DEPOT ACTIVITY
MCKINLEY COUNTY, NEW MEXICO**

July 19, 2018

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GLOSSARY

DQAR	Data Quality Assessment Report
DQO	Data Quality Objective
DOD	Department of Defense
DL	Detection Limit
EB	Equipment Blank
LCS/LCSD	Laboratory Control Sample / Laboratory Control Sample Duplicate
LDC	Laboratory Data Consultants, Inc
LOD	Limit of Detection
LOQ	Limit of Quantitation
MS/MSD	Matrix Spike / Matrix Spike Duplicate
NFG	National Functional Guidelines
PARCCS	Precision, Accuracy, Representativeness, Comparability, Completeness, Sensitivity
PCBs	Polychlorinated Biphenyls
PQO	Project Quality Objectives
PT	Proficiency Testing
QAPP	Quality Assurance Project Plan
QA/QC	Quality Assurance/Quality Control
QSM	Quality Systems Manual
RPD	Relative Percent Difference
SDG	Sample Delivery Group
SVOCs	Semivolatile Organic Compounds
TB	Trip Blank
VOCs	Volatile Organic Compounds
%D	Percent Difference
%R	Percent Recovery
%RSD	Percent Relative Standard Deviation
ug/L	Micrograms per Liter

1.0 INTRODUCTION

Interim Facility-wide Groundwater Monitoring Fort Wingate Depot Activity was conducted at McKinley County, New Mexico. The monitoring included the collection and analyses of eight environmental and quality control (QC) samples. The analyses were performed by the following method:

Volatile Organic Compounds (VOCs) by Environmental Protection Agency (EPA) SW 846 Method 8260C

Semivolatile Organic Compounds (SVOCs) by EPA SW 846 Method 8270D

Caprolactam by EPA SW 846 Method 8270D

Chlorinated Pesticides by EPA SW 846 Method 8081A

Polychlorinated Biphenyls (PCBs) by EPA SW 846 Method 8082A

Herbicides by EPA SW 846 Method 8151A

Explosives by EPA SW 846 Method 8330B

Perchlorate by EPA SW 846 Method 6860

Total and Dissolved Metals by EPA SW 846 Methods 6010C/6020A/7470A

Nitrate as Nitrogen/Nitrite as Nitrogen by EPA SW 846 Method 9056A

Analytical services were provided by TestAmerica Inc. whom performed analyses on the water samples. The samples were grouped into sample delivery groups (SDGs) as received by each laboratory. The environmental samples are associated with quality assurance and quality control (QA/QC) samples designed to document the data quality of the entire SDG or a sub-group of samples within a SDG. Table I is a cross-reference table listing each sample, analysis, SDG, collection date, laboratory sample number, matrix, and validation level.

All of the analytical data were validated according to EPA Level III and Level IV validation procedures. The analytical data were evaluated for QA/QC based on the *Uniform Federal Policy-Quality Assurance Project Plan (QAPP) for Interim Facility-wide Groundwater Monitoring, Fort Wingate Depot Activity, McKinley County, New Mexico (October 2017)* and the *Department of Defense (DoD) Quality Systems Manual (QSM) for Environmental Laboratories, Version 5.0 (DoD 2013)*. Validation services were provided by Laboratory Data Consultants, Inc. (LDC).

This data quality assessment report (DQAR) summarizes the QA/QC evaluation of the data according to precision, accuracy, representativeness, completeness, comparability, and sensitivity (PARCCS) relative to the project quality objectives (PQOs). This report provides a quantitative and qualitative assessment of the data and identifies potential sources of error, uncertainty, and bias that may affect the overall usability.

The DQAR evaluates and summarizes the results of QA/QC data validation for the entire sampling program. Each analytical fraction has a separate section for each of the PARCCS criteria. These sections interpret specific QC deviations and their effects on both individual data points and the analyses as a whole. Section 13 presents a summary of the PARCCS criteria by comparing quantitative parameters with acceptability criteria defined in the PQOs. Qualitative PARCCS criteria are also summarized in this section.

Precision and Accuracy of Environmental Data

Environmental data quality depends on sample collection procedures, analytical methods and instrumentation, documentation, and sample matrix properties. Both sampling procedures and laboratory analyses contain potential sources of uncertainty, error, and/or bias, which affect the overall quality of a measurement. Errors in sample data may result from incomplete equipment decontamination,

inappropriate sampling techniques, sample heterogeneity, improper filtering, and improper preservation. The accuracy of analytical results is dependent on selecting appropriate analytical methods, maintaining equipment properly, and complying with QC requirements. The sample matrix also is an important factor in the ability to obtain precise and accurate results within a given media.

Environmental and laboratory QA/QC samples assess the effects of sampling procedures and evaluate laboratory contamination, laboratory performance, and matrix effects. QA/QC samples include: method blanks, trip blanks (TBs), equipment blank (EB), laboratory control sample/laboratory control sample duplicates (LCS/LCSDs), surrogate spikes, and matrix spike/matrix spike duplicates (MS/MSDs).

Before conducting the PARCCS evaluation, the analytical data were validated according to the QAPP and DoD QSM. Samples not meeting the QAPP and DoD QSM acceptance criteria were qualified with a flag, an abbreviation indicating a deficiency with the data. The following are flags used in data validation.

- J Estimated The associated numerical value is an estimated quantity. It is not possible to assess the direction of the potential bias. The analyte was detected but the reported value may not be accurate or precise. The "J" qualification indicates the data fell outside the QC limits, but the exceedance was not sufficient to cause rejection of the data.
- R Rejected The data is unusable (the compound or analyte may or may not be present). Use of the "R" qualifier indicates a significant variance from functional guideline acceptance criteria. Either resampling or reanalysis is necessary to determine the presence or absence of the rejected analyte.
- U Nondetected Analyses were performed for the compound or analyte, but it was not detected. The "U" designation is also applied to suspected blank contamination. The "U" flag is used to qualify any result detected in an environmental sample at a concentration less than 5 times the blank value for other laboratory contaminants in any associated blank.
- UJ Estimated/Nondetected Analyses were performed for the compound or analyte, but it was not detected and the limit of detection (LOD) is an estimated quantity due to poor accuracy or precision. This qualification is also used to flag possible false negative results in the case where low bias in the analytical system is indicated by low calibration response, surrogate, internal standard, or other spike recovery.

Once the data are reviewed and qualified according to the QAPP and DoD QSM, the data set is then evaluated using PARCCS criteria. PARCCS criteria provide an evaluation of overall data usability. The following is a discussion of PARCCS criteria as related to the PQOs.

Precision is a measure of the agreement or reproducibility of analytical results under a given set of conditions. It is a quantity that cannot be measured directly but is calculated from percent recovery data.

Precision is expressed as the relative percent difference (RPD):

$$RPD = (D1 - D2) / \{1/2(D1 + D2)\} \times 100$$

Where:

D1 and D2 = the reported concentrations for sample and duplicate analyses.

Precision is primarily assessed by calculating a RPD from the percent recoveries of the spiked compounds for each sample in the MS/MSD pair. In the absence of a MS/MSD pair, a laboratory duplicate or LCS/LCSD pair can be analyzed as an alternative means of assessing precision. In some cases, samples

from multiple SDGs were within one QC batch and therefore are associated with the same laboratory QC samples. An additional measure of sampling precision was obtained by collecting and analyzing field duplicate samples, which were compared using the RPD, as the evaluation criteria.

MS and MSD samples are field samples spiked by the laboratory with target analytes prior to preparation and analysis. These samples measure the overall efficiency of the analytical method in recovering target analytes from an environmental matrix. A LCS is similar to a MS/MSD sample in that the LCS is spiked with the same target analytes prior to preparation and analysis. However, the LCS is prepared using a controlled interference-free matrix instead of a field sample aliquot. Laboratory reagent water is used to prepare aqueous LCS. The LCS measures laboratory efficiency in recovering target analytes from an aqueous matrix in the absence of matrix interferences.

Laboratory and field sampling precision are further evaluated by calculating RPDs for field sample duplicate pairs. The sampler collects two field samples at the same location and under identically controlled conditions. The laboratory then analyzes the samples under identical conditions.

An RPD outside the numerical QC limit in either MS/MSD samples, LCS/LCSD, or field duplicates indicates imprecision. Imprecision is the variance in the consistency with which the laboratory arrives at a particular reported result. Thus, the actual analyte concentration may be higher or lower than the reported result.

Possible causes of poor precision include sample matrix interference, improper sample collection or handling, inconsistent sample preparation, and poor instrument stability. In some duplicate sets, results may be reported in either the primary or duplicate samples at levels below the limit of quantitation (LOQ) or non-detected. Since these values are considered to be estimates, RPD exceedances from these duplicates do not suggest a significant impact on the data quality.

Accuracy is a measure of the agreement of an experimental determination and the true value of the parameter being measured. It is used to identify bias in a given measurement system. Recoveries outside acceptable QC limits may be caused by factors such as instrumentation, analyst error, or matrix interference. Accuracy is assessed through the analysis of MS, MSD, LCS, LCSD, and samples containing surrogate spikes. In some cases, samples from multiple SDGs were within one QC batch and therefore are associated with the same laboratory QC samples. Surrogate spikes are either isotopically labeled compounds or compounds that are not typically detected in the samples. Surrogate spikes are added to every blank, environmental sample, MS/MSD, LCS/LCSD and standard, for all applicable organic analyses.

Percent recovery (%R) is calculated using the following equation:

$$\%R = (A-B)/C \times 100$$

Where:

A = measured concentration in the spiked sample

B = measured concentration of the spike compound in the unspiked sample

C = concentration of the spike

The percent recovery of each analyte spiked in MS/MSD samples, LCS/LCSD, and surrogate compounds added to environmental samples is evaluated against the acceptance criteria specified by the previously noted documents. Spike recoveries outside the acceptable QC accuracy limits provide an indication of bias, where the reported data may overestimate or underestimate the actual concentration of compounds detected or LODs reported for environmental samples.

Representativeness is a qualitative parameter that expresses the degree to which the sample data are characteristic of a population and is evaluated by reviewing the QC results of blank samples and holding times. Positive detects of compounds in the blank samples identify compounds that may have been introduced into the samples during sample collection, transport, preparation, or analysis. The QA/QC blanks collected and analyzed are method blanks, TBs, and EBs.

A method blank is a laboratory grade water or solid matrix that contains the method reagents and has undergone the same preparation and analysis as the environmental samples. The method blank provides a measure of the combined contamination derived from the laboratory source water, glassware, instruments, reagents, and sample preparation steps. Method blanks are prepared for each sample of a similar matrix extracted by the same method at a similar concentration level.

For inorganic analyses, initial and continuing calibration blanks (ICB/CCB) consist of acidified laboratory grade water, which are injected at the beginning and at a regular frequency during each 12 - hour sample analysis run. These blanks estimate residual contaminants from the previous sample or standards analysis and measure baseline shifts that commonly occur in emission and absorption spectroscopy.

Trip blanks are used to identify possible volatile organic contamination introduced into the sample during transport. A trip blank is a sample bottle filled in the laboratory with reagent-grade water and preserved to a pH less than 2 with hydrochloric acid. It is transported to the site, stored with the sample containers, and returned unopened to the laboratory for analysis.

Equipment blanks consist of analyte-free water poured over or through the sample collection equipment. The water is collected in a sample container for laboratory analysis. These blanks are collected after the sampling equipment is decontaminated and measure efficiency of the decontamination procedure.

Contaminants found in both the environmental sample and a blank sample are assumed to be laboratory artifacts if the concentration in the environmental sample is less than 5 times the blank value for all contaminants.

Holding times are evaluated to assure that the sample integrity is intact for accurate sample preparation and analysis. Holding times will be specific for each method and matrix analyzed. Holding time exceedances can cause loss of sample constituents due to biodegradation, precipitation, volatilization, and chemical degradation.

Comparability is a qualitative expression of the confidence with which one data set may be compared to another. It provides an assessment of the equivalence of the analytical results to data obtained from other analyses. It is important that data sets be comparable if they are used in conjunction with other data sets. The factors affecting comparability include the following: sample collection and handling techniques, matrix type, and analytical method. If these aspects of sampling and analysis are carried out according to standard analytical procedures, the data are considered comparable. Comparability can only be compared with confidence when precision, accuracy, and representativeness are known.

Completeness is defined as the percentage of acceptable sample results compared to the total number of sample results. Completeness is evaluated to determine if an acceptable amount of usable data were obtained so that a valid scientific site assessment can be completed. Completeness equals the total number of sample results for each fraction minus the total number of rejected sample results divided by the total number of sample results multiplied by 100. As specified in the DQOs, the goal for completeness for target analytes in each analytical fraction is 90 percent.

Percent completeness is calculated using the following equation:

$$\%C = (T - R)/T \times 100$$

Where:

%C = percent completeness

T = total number of sample results

R = total number of rejected sample results

Completeness is also determined by comparing the planned number of samples per method and matrix as specified in the project planning document, with the number determined above.

Sensitivity is the ability of an analytical method or instrument to discriminate between measurement responses representing different concentrations. This capability is established during the planning phase to meet the data quality objectives (DQOs). It is important that calibration requirements, detection limits (DLs), and LOQs presented in the QAPP are achieved and that target analytes can be detected at concentrations necessary to support the DQOs. In addition, sample results are compared to method blank and field blank results to identify potential effects of laboratory background and field procedures on sensitivity.

The following sections present a review of QC data for each analytical method. The details regarding the qualification of results are provided in the data validation reports.

2.0 VOLATILE ORGANIC COMPOUNDS

A total of eight water samples were analyzed for VOCs by EPA SW 846 Method 8260C. All VOC data were assessed to be valid since none of the 544 total results were rejected due to holding time or QC exceedances. This section discusses the QA/QC supporting documentation as defined by the PARCCS criteria and evaluated based on the PQOs.

2.1 Precision and Accuracy

2.1.1 Instrument Calibration

Initial and continuing calibration results provide a means of evaluating accuracy within a particular SDG. Relative response factor (RRF), percent relative standard deviation (%RSD), and percent difference (%D) are the major parameters used to measure the effectiveness of instrument calibration. RRF is a measure of the relative spectral response of an analyte compared to its internal standard. %RSD is an expression of the linearity of instrument response. %D is a comparison of a continuing calibration instrumental response with its initial response. %RSD and %D exceedances suggest routine instrumental anomalies, which typically impact all sample results for the affected compounds.

The %RSDs met the acceptance criteria of 15 percent for each individual compound. The %Ds in the initial calibration verification met the acceptance criteria of 20 percent or the coefficient of determination (r^2) was ≥ 0.990 in the initial calibration.

Due to the %Ds in continuing calibration verifications outside the acceptance criteria of 20 percent, the 1,2,4-trichlorobenzene and 1,2,3-trichlorobenzene results in samples BGMW10042018 and QC27042018BGMW TB were qualified as non-detected estimated (UJ).

Due to the initial and continuing calibration RRF outside the acceptance criteria, the methyl acetate

results in eight samples were qualified as non-detected estimated (UJ).

2.1.2 Surrogates

Due to high surrogate %R, the methyl acetate result in sample BGMW10042018 and the carbon disulfide result in sample QC01052018BGMW TB were qualified as detected estimated (J).

2.1.3 LCS/LCSD Samples

All LCS/LCSD %Rs and RPDs were within the acceptance criteria.

2.1.4 Internal Standards

All internal standard areas and retention areas were within acceptance criteria.

2.1.5 Proficiency Testing Samples

Proficiency testing (PT) samples were not performed for the sampling event.

2.1.6 Compound Quantitation and Target Identification

All compound quantitation and target identifications were found to be acceptable.

2.2 Representativeness

2.2.1 Holding Times

The evaluation of holding times to verify compliance with the method was conducted.

As a result of acetone in sample QC23042018BGMW EB exceeding the fourteen day holding time, the acetone result was qualified as detected estimated (J).

As a result of headspace in sample QC23042018BGMW EB, the acetone result was qualified as detected estimated (J).

2.2.2 Blanks

Method blanks, TBs, and EBs were collected and analyzed to evaluate representativeness. The concentration for an individual target compound in any of the types of QA/QC blanks was used for data qualification.

If contaminants were detected in a blank, corrective actions were made for the chemical analytical data during data validation. The corrective action consisted of amending the laboratory reported results based on the following criteria.

Results Below or Above the LOQ If a sample result for the blank contaminant was less than the LOQ or greater than the sample LOQ and less than 5 times the blank value for all contaminants, the sample result for the blank contaminant was amended as a non-detect at the concentration reported in the sample results.

No Action If a sample result for the blank contaminant was greater than 5 times the blank value for all contaminants, the result was not amended.

2.2.2.1 Method Blanks

No contaminants were detected in the method blanks for this analysis.

2.2.2.2 EBs and TBs

As a result of equipment blank contamination, the acetone results in samples BGMW07042018 and BGMW09042018 were qualified as non-detected (U).

No contaminants were detected in the trip blanks for this analysis.

2.3 Comparability

The laboratory used standard analytical methods for all of the analyses. In all cases, the DLs and LODs attained were below the specified LOQs. Target compounds detected below the LOQs flagged (J) by the laboratory should be considered estimated. The comparability of the data is regarded as acceptable.

2.4 Completeness

The completeness level attained for VOC field samples was 100 percent. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

2.5 Sensitivity

The calibration was evaluated for instrument sensitivity and was determined to be technically acceptable. All laboratory DLs and LOQs met the specified requirements described in the QAPP.

3.0 SEMIVOLATILE ORGANIC COMPOUNDS

A total of four water samples were analyzed for SVOCs by EPA SW 846 Method 8270D. All SVOC data were assessed to be valid since none of the 296 total results were rejected due to holding time or QC exceedances. This section discusses the QA/QC supporting documentation as defined by the PARCC criteria and evaluated based on the PQOs.

3.1 Precision and Accuracy

3.1.1 Instrument Calibration

The %RSDs met the acceptance criteria of 15 percent or the coefficient of determination (r^2) was ≥ 0.990 in the initial calibration. The %Ds in the initial calibration met the acceptance criteria of 20%. All RRFs met the acceptance criteria.

Due to the %Ds in continuing calibration verifications outside the acceptance criteria of 20 percent, the 4-nitrophenol results in samples BGMW09042018 and QC30042018BGMW EB were qualified as non-detected estimated (UJ).

3.1.2 Surrogates

All surrogate %Rs were within the acceptance criteria.

3.1.3 LCS/LCSD Samples

Due to low LCS/LCSD %Rs, 16 results were qualified as non-detected estimated (UJ).

Due to LCS/LCSD RPDs outside the acceptance criteria, the benzidine results in samples BGMW09042018 and QC30042018BGMW EB were qualified as non-detected estimated (UJ).

3.1.4 Internal Standards

All internal standard areas and retention times were within the acceptance criteria.

3.1.5 Proficiency Testing Samples

PT samples were not performed for the sampling event.

3.1.6 Compound Quantitation and Target Identification

All compound quantitation and target compound identifications were found to be acceptable.

3.2 Representativeness

3.2.1 Holding Times

As a result of exceeding holding time from sample collection until extraction, the benzaldehyde, 3,3'-dichlorobenzidine, and benzidine results in sample BGMW10042018 were qualified as non-detected estimated (UJ).

3.2.2 Blanks

Method blanks and EBs were collected and analyzed to evaluate representativeness.

3.2.2.1 Method Blanks

No contaminants were detected in the method blanks for this analysis.

3.2.2.2 EBs

No data were qualified as a result of contaminants detected in the equipment blank for this analysis.

3.3 Comparability

The laboratory used standard analytical methods for all of the analyses. In all cases, the DLs and LODs attained were below the specified LOQs. Target compounds detected below the LOQs flagged (J) by the laboratory should be considered estimated. The comparability of the data is regarded as acceptable.

3.4 Completeness

The completeness level attained for SVOC field samples was 100 percent. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

3.5 Sensitivity

The calibration was evaluated for instrument sensitivity and was determined to be technically acceptable. All laboratory DLs and LOQs met the specified requirements described in the QAPP.

4.0 CAPROLACTAM

A total of four water samples were analyzed for caprolactam by EPA SW846 Method 8270D. All caprolactam data were assessed to be valid since none of the four total results were rejected due to holding time or QC exceedances. This section discusses the QA/QC supporting documentation as defined by the PARCC criteria and evaluated based on the PQOs.

4.1 Precision and Accuracy

4.1.1 Instrument Calibration

The %RSDs met the acceptance criteria of 15 percent in the initial calibration. The %Rs for initial and continuing calibration verifications met the acceptance criteria of 20 percent. All RRFs met the acceptance criteria.

4.1.2 Surrogates

All surrogate %Rs were within the acceptance criteria.

4.1.3 LCS/LCSD Samples

Due to low LCS/LCSD %Rs, the caprolactam results in samples BGMW07042018, BGMW10042018, BGMW09042018, and QC30042018BGMW EB were qualified as non-detected estimated (UJ).

All LCS/LCSD RPDs were within the acceptance criteria.

4.1.4 Internal Standards

All internal standard areas and retention times were within the acceptance criteria.

4.1.5 Proficiency Testing Samples

PT samples were not performed for the sampling event.

4.1.6 Compound Quantitation and Target Identification

All compound quantitation and target compound identifications were found to be acceptable.

4.2 Representativeness

4.2.1 Holding Times

As a result of exceeding holding time from sample collection until extraction, the caprolactam result in sample BGMW10042018 was qualified as non-detected estimated (UJ).

4.2.2 Blanks

Method blanks and EBs were collected and analyzed to evaluate representativeness.

4.2.2.1 Method Blanks

No contaminants were detected in the method blanks for this analysis.

4.2.2.2 EBs

No contaminants were detected in the equipment blanks for this analysis.

4.3 Comparability

The laboratory used standard analytical methods for all of the analyses. In all cases, the DLs and LODs attained were below the specified LOQs. The comparability of the data is regarded as acceptable.

4.4 Completeness

The completeness level attained for caprolactam field samples was 100 percent. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

4.5 Sensitivity

The calibration was evaluated for instrument sensitivity and was determined to be technically acceptable. All laboratory DLs and LOQs met the specified requirements described in the QAPP.

5.0 CHLORINATED PESTICIDES

A total of four water samples were analyzed for chlorinated pesticides by EPA SW 846 Method 8081A. All chlorinated pesticide data were assessed to be valid with the exception of one of the 84 total results, which were rejected due to extremely low LCS %R. This section discusses the QA/QC supporting documentation as defined by the PARCCS criteria and evaluated based on the PQOs.

5.1 Precision and Accuracy

5.1.1 Instrument Calibration

The %Ds in the continuing calibration verification met the acceptance criteria of 20 percent or the coefficient of determination (r^2) was ≥ 0.990 in the initial calibration.

Due to the %Ds in initial calibration verifications outside the acceptance criteria of 20 percent, the toxaphene results in samples BGMW10042018, BGMW09042018, and QC30042018BGMW EB were qualified as non-detected estimated (UJ).

5.1.2 Surrogates

Due to low surrogate %Rs, 21 results in sample BGMW09042018 were qualified as non-detected estimated (UJ).

5.1.3 LCS/LCSD Samples

Due to extremely low LCS/LCSD %Rs, the toxaphene result in sample BGMW07042018 was rejected (R).

No data were qualified as a result of high LCS/LCSD %Rs since the associated samples were not detected.

All LCS/LCSD RPDs were within the acceptance criteria.

5.1.4 Proficiency Testing Samples

PT samples were not performed for the sampling event.

5.1.5 Compound Quantitation and Target Identification

All compound quantitation and target compound identifications were found to be acceptable.

5.2 Representativeness

5.2.1 Holding Times

The evaluation of holding times to verify compliance with the method was conducted. All holding times were met.

5.2.2 Blanks

Method blanks and EBs were collected and analyzed to evaluate representativeness.

5.2.2.1 Method Blanks

No contaminants were detected in the method blanks for this analysis.

5.2.2.2 EBs

No contaminants were detected in the equipment blanks for this analysis.

5.3 Comparability

The laboratory used standard analytical methods for all of the analyses. In all cases, the DLs and LODs attained were below the specified LOQs. The comparability of the data is regarded as acceptable.

5.4 Completeness

The completeness level attained for chlorinated pesticide field samples was 98.8 percent. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

5.5 Sensitivity

The calibration was evaluated for instrument sensitivity and was determined to be technically acceptable.

All laboratory DLs and LOQs met the specified requirements described in the QAPP.

6.0 POLYCHLORINATED BIPHEYNLS

A total of four water samples were analyzed for PCBs by EPA SW846 Method 8082A. All PCB data were assessed to be valid since none of the 28 total results were rejected due to holding time or QC exceedances. This section discusses the QA/QC supporting documentation as defined by the PARCCS criteria and evaluated based on the PQOs.

6.1 Precision and Accuracy

6.1.1 Instrument Calibration

The %Ds in the initial and continuing calibration verification met the acceptance criteria of 20 percent or the coefficient of determination (r^2) was ≥ 0.990 in the initial calibration.

6.1.2 Surrogates

Due to low surrogate %Rs, seven results in sample BGMW09042018 were qualified as non-detected estimated (UJ).

6.1.3 LCS/LCSD Samples

All LCS/LCSD %Rs and RPDs were within the acceptance criteria.

6.1.4 Proficiency Testing Samples

PT samples were not performed for the sampling event.

6.1.5 Compound Quantitation and Target Identification

All compound quantitation and target compound identifications were found to be acceptable.

6.2 Representativeness

6.2.1 Holding Times

The evaluation of holding times to verify compliance with the method was conducted. All holding times were met.

6.2.2 Blanks

Method blanks and EBs were collected and analyzed to evaluate representativeness.

6.2.2.1 Method Blanks

No contaminants were detected in the method blanks for this analysis.

6.2.2.2 EBs

No contaminants were detected in the equipment blanks for this analysis.

6.3 Comparability

The laboratory used standard analytical methods for all of the analyses. In all cases, the DLs and LODs attained were below the specified LOQs. The comparability of the data is regarded as acceptable.

6.4 Completeness

The completeness level attained for PCB field samples was 100 percent. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

6.5 Sensitivity

The calibration was evaluated for instrument sensitivity and was determined to be technically acceptable. All laboratory DLs and LOQs met the specified requirements described in the QAPP.

7.0 HERBICIDES

A total of four water samples were analyzed for herbicides by EPA SW 846 Method 8151A. All herbicide data were assessed to be valid since none of the 40 total results were rejected due to holding time or QC exceedances.. This section discusses the QA/QC supporting documentation as defined by the PARCCS criteria and evaluated based on the PQOs.

7.1 Precision and Accuracy

7.1.1 Instrument Calibration

The %Ds in the initial calibration verification met the acceptance criteria of 20 percent or the coefficient of determination (r^2) was ≥ 0.990 in the initial calibration.

Due to the %Ds in continuing calibration verifications outside the acceptance criteria of 20 percent, the dinoseb, MCPP, and MCPA results in samples BGMW07042018 and BGMW10042018 and the dalapon result in sample QC30042018BGMW EB were qualified as non-detected estimated (UJ).

7.1.2 Surrogates

All surrogate %Rs were within the acceptance criteria.

7.1.3 LCS/LCSD Samples

All LCS/LCSD %Rs and RPDs were within the acceptance criteria.

7.1.4 Proficiency Testing Samples

PT samples were not performed for the sampling event.

7.1.5 Compound Quantitation and Target Identification

All target identifications were found to be acceptable.

As a result of compound quantitation non-conformances (i.e., RPD between two columns), the dalapon

result in sample BGMW07042018 was qualified as detected estimated (J).

7.2 Representativeness

7.2.1 Holding Times

The evaluation of holding times to verify compliance with the method was conducted. All holding times were met.

7.2.2 Blanks

Method blanks and EBs were collected and analyzed to evaluate representativeness.

7.2.2.1 Method Blanks

No contaminants were detected in the method blanks for this analysis.

7.2.2.2 EBs

No contaminants were detected in the equipment blanks for this analysis.

7.3 Comparability

The laboratory used standard analytical methods for all of the analyses. In all cases, the DLs and LODs attained were below the specified LOQs. The comparability of the data is regarded as acceptable.

7.4 Completeness

The completeness level attained for herbicides field samples was 100 percent. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

7.5 Sensitivity

The calibration was evaluated for instrument sensitivity and was determined to be technically acceptable. All laboratory DLs and LOQs met the specified requirements described in the QAPP.

8.0 EXPLOSIVES

A total of four water samples were analyzed for explosives by EPA SW 846 Method 8330B. All explosive data were assessed to be valid since none of the 68 total results were rejected due to a holding time or QC exceedances. This section discusses the QA/QC supporting documentation as defined by the PARCC criteria and evaluated based on the PQOs.

8.1 Precision and Accuracy

8.1.1 Instrument Calibration

The %RSDs met the acceptance criteria of 15 percent or the coefficient of determination (r^2) was ≥ 0.990 in the initial calibration. The %Ds in the initial calibration verifications met the acceptance criteria of 20 percent.

Due to the %Ds in continuing calibration verifications outside the acceptance criteria of 20 percent, the o-nitrotoluene results in samples BGMW09042018 and QC30042018BGMW EB were qualified as non-detected estimated (UJ).

8.1.2 Surrogates

No data were qualified due to high surrogate %Rs, since the associated sample results were not detected.

8.1.3 LCS/LCSD Samples

Due to low LCS/LCSD %Rs, the 4-amino-2,6-dinitrotoluene and 2-amino-4,6-dinitrotoluene results in samples BGMW07042018 and BGMW10042018 were qualified as non-detected estimated (UJ).

All LCS/LCSD RPDs were within the acceptance criteria.

8.1.4 Proficiency Testing Samples

PT samples were not performed for the sampling event.

8.1.5 Compound Quantitation and Target Identification

All compound quantitation and target compound identifications were found to be acceptable.

8.2 Representativeness

8.2.1 Holding Times

The evaluation of holding times to verify compliance with the method was conducted. All holding times were met.

8.2.2 Blanks

Method blanks and EBs were collected and analyzed to evaluate representativeness.

8.2.2.1 Method Blanks

No contaminants were detected in the method blanks for this analysis.

8.2.2.2 EBs

No contaminants were detected in the equipment blanks for this analysis.

8.3 Comparability

The laboratory used standard analytical methods for all of the analyses. In all cases, the DLs and LODs attained were below the specified LOQs. Target compounds detected below the LOQs flagged (J) by the laboratory should be considered estimated. The comparability of the data is regarded as acceptable.

8.4 Completeness

The completeness level attained for explosive field samples was 100 percent. This percentage was

calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

8.5 Sensitivity

The calibration was evaluated for instrument sensitivity and was determined to be technically acceptable. All laboratory DLs and LOQs met the specified requirements described in the QAPP.

9.0 PERCHLORATE

A total of four water samples were analyzed for perchlorate by EPA SW 846 Method 6860. All VOC data were assessed to be valid since none of the four total results were rejected due to holding time or QC exceedances. This section discusses the QA/QC supporting documentation as defined by the PARCCS criteria and evaluated based on the PQOs.

9.1 Precision and Accuracy

9.1.1 Instrument Calibration

The coefficient of determination (r^2) was ≥ 0.990 in the initial calibration. The %Ds in the initial and continuing calibration verifications met the acceptance criteria of 15 percent.

9.1.2 LCS Samples

All LCS %Rs were within the acceptance criteria.

9.1.3 Interference Check Samples

All ICP interference check sample %Rs were within the acceptance criteria.

9.1.4 Internal Standards

All internal standard areas and retention areas were within acceptance criteria.

9.1.5 Proficiency Testing Samples

PT samples were not performed for the sampling event.

9.1.6 Compound Quantitation and Target Identification

All compound quantitation and target identifications were found to be acceptable.

9.2 Representativeness

9.2.1 Holding Times

The evaluation of holding times to verify compliance with the method was conducted. All holding times were met.

9.2.2 Blanks

Method blanks and EBs were collected and analyzed to evaluate representativeness.

9.2.2.1 Method Blanks

No contaminants were detected in the method blanks for this analysis.

9.2.2.2 EBs

No contaminants were detected in the equipment blanks for this analysis.

9.3 Comparability

The laboratory used standard analytical methods for all of the analyses. In all cases, the DLs and LODs attained were below the specified LOQs. The comparability of the data is regarded as acceptable.

9.4 Completeness

The completeness level attained for perchlorate field samples was 100 percent. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

9.5 Sensitivity

The calibration was evaluated for instrument sensitivity and was determined to be technically acceptable. All laboratory DLs and LOQs met the specified requirements described in the QAPP.

10.0 METALS

A total of 4 water samples were analyzed for total and dissolved metals by EPA SW 846 Methods 6010C/6020A/7470A. All metals data were assessed to be valid since none of the 184 total results were rejected due to holding time or QC exceedances. This section discusses the QA/QC supporting documentation as defined by the PARCC criteria and evaluated based on the PQOs.

10.1 Precision and Accuracy

10.1.1 Instrument Calibration

Initial and continuing calibration verification results provide a means of evaluating accuracy within a particular SDG. Correlation coefficient (r) and percent recovery (%R) are the two major parameters used to measure the effectiveness of instrument calibration. The correlation coefficient indicates the linearity of the calibration curve. %R is used to verify the ongoing calibration acceptability of the analytical system. The most critical of the two calibration parameters, r, has the potential to affect data accuracy across a SDG when it is outside the acceptable QC limits. %R exceedances suggest more routine instrumental anomalies, which typically impact all sample results for the affected analytes.

The correlation coefficients in the initial calibrations were within the acceptance criteria of ≥ 0.995 . The %Rs in the initial and continuing calibration verifications met the method acceptance criteria of 90-110 percent.

10.1.2 LCS/LCSD Samples

All LCS/LCSD %Rs and RPDs were within the acceptance criteria.

10.1.3 Internal Standards

All internal standard %Rs were within the acceptance criteria.

10.1.4 ICP Interference Check Sample

All ICP interference check sample %Rs were within the acceptance criteria.

10.1.5 Proficiency Testing Samples

PT samples were not performed for the sampling event.

10.1.6 Sample Result Verification

All sample results were found to be acceptable.

10.2 Representativeness

10.2.1 Holding Times

The evaluation of holding times to verify compliance with the method was conducted. All holding times were met.

10.2.2 Blanks

Method blanks, calibration blanks, and EBs were analyzed to evaluate representativeness. The concentration for an individual target analyte in any of the QA/QC blanks was used for data qualification.

If contaminants were detected in a blank, corrective actions were made for the chemical analytical data during data validation. The corrective action consisted of amending the laboratory reported results based on the following criteria.

Results Below or Above the LOQ If a sample result for the blank contaminant was less than the LOQ or greater than the sample LOQ and less 5 times the method blank value or the highest applicable calibration blank value, the sample result for the blank contaminant was amended as a non-detect at the concentration reported in the sample results.

No Action If a sample result for the blank contaminant was greater than 5 times the method blank value or the highest applicable calibration blank value, the result was not amended.

10.2.2.1 Method and Calibration Blanks

As a result of method blank contamination, the dissolved and total zinc results in samples BGMW07042018 and BGMW10042018 and the total calcium and barium results in sample QC30042018BGMW EB were qualified as non-detected (U).

As a result of calibration blank contamination, the dissolved selenium results in samples BGMW07042018 and BGMW10042018 and the total sodium result in sample QC30042018BGMW EB

were qualified as non-detected (U).

10.2.2.2 EBs

As a result of equipment blank contamination, the total zinc results in sample BGMW07042018 and BGMW10042018 and the dissolved manganese result in sample BGMW10042018 were qualified as non-detected (U).

10.3 Comparability

The laboratory used standard analytical methods for all of the analyses. In all cases, the DLs and LODs attained were below the specified LOQs. Target compounds detected below the LOQs flagged (J) by the laboratory should be considered estimated. The comparability of the data is regarded as acceptable.

10.4 Completeness

The completeness level attained for metal field samples was 100 percent. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

10.5 Sensitivity

The calibration was evaluated for instrument sensitivity and was determined to be technically acceptable. All laboratory DLs and LOQs met the specified requirements described in the QAPP.

11.0 WET CHEMISTRY

A total of four water samples were analyzed for nitrate as nitrogen and nitrite as nitrogen by EPA SW 846 Method 9056A. All nitrate as nitrogen and nitrite as nitrogen data were assessed to be valid since none of the four total results were rejected due to holding time or QC exceedances. This section discusses the QA/QC supporting documentation as defined by the PARCCS criteria and evaluated based on the PQOs.

11.1 Precision and Accuracy

11.1.1 Instrument Calibration

The correlation coefficients in the initial calibrations and percent recoveries in the initial and continuing calibration verifications were within the acceptance criteria of ≥ 0.995 and 90-110 percent, respectively.

11.1.2 LCS/LCSD Samples

All LCS/LCSD %Rs and RPDs were within the acceptance criteria.

11.1.3 Proficiency Testing Samples

PT samples were not performed for the sampling event.

11.1.4 Sample Result Verification

All sample results were found to be acceptable.

11.2 Representativeness

11.2.1 Holding Times

The evaluation of holding times to verify compliance with the method was conducted. All holding times were met.

11.2.2 Blanks

Method blanks, calibration blanks, and equipment blanks were analyzed to evaluate representativeness.

11.2.2.1 Method and Calibration Blanks

No contaminants were detected in the method and calibration blanks for this analysis.

11.2.2.2 EBs Blanks

No contaminants were detected in the equipment blanks for this analysis.

11.3 Comparability

The laboratory used standard analytical methods for all of the analyses. In all cases, the DLs and LODs attained were below the specified LOQs. Target analytes detected below the LOQs flagged (J) by the laboratory should be considered estimated. The comparability of the data is regarded as acceptable.

11.4 Completeness

The completeness level attained for nitrate as nitrogen and nitrite as nitrogen field samples was 100 percent. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

11.5 Sensitivity

The calibration was evaluated for instrument sensitivity and was determined to be technically acceptable. All laboratory DLs and LOQs met the specified requirements described in the QAPP.

12.0 VARIANCES IN ANALYTICAL PERFORMANCE

The laboratory used standard analytical methods for all of the analyses throughout the project. No systematic variances in analytical performance were noted according to the case narratives.

13.0 SUMMARY OF PARCCS CRITERIA

The validation reports present the PARCCS results for all SDGs. Each PARCCS criterion is discussed in detail in the following sections.

13.1 Precision and Accuracy

Precision and accuracy were evaluated using data quality indicators such as calibration, MS/MSD, LCS/LCSD, and surrogates. The precision and accuracy of the data set were considered acceptable with the exceptions noted below.

High surrogate %Rs indicate that the VOC results may be biased high for the associated samples.

Low surrogate %Rs or LCS/LCSD %Rs indicate that the SVOC, chlorinated pesticides, PCBs, explosive, and caprolactam results may be biased low for the associated samples.

Bias cannot be determined for associated VOC, SVOC, chlorinated pesticide, herbicide, and explosive results when initial and continuing calibration RRF, initial and continuing calibration verification %D, LCS/LCSD RPDs, or RPDs between two columns are high.

13.2 Representativeness

All samples for each method and matrix were evaluated for holding time compliance. All holding time and sample condition requirements were met with the exceptions noted in Sections 2.2.1, 3.2.1, and 4.2.1. All samples were associated with a method blank in each individual SDG. The representativeness of the project data is considered acceptable.

13.3 Comparability

Sampling frequency requirements were met. The laboratory used standard analytical methods for their analyses. The analytical results were reported in correct standard units. Holding times, sample preservation, and sample integrity were within QC criteria.

13.4 Completeness

Of the 1,256 total analytes reported, one sample result was rejected. The completeness for all SDGs is as follows:

Parameter	Total Analytes	No. of Rejects	% Completeness
VOCs	544	0	100
SVOCs	296	0	100
Caprolactam	4	0	100
Chlorinated Pesticides	84	1	98.8
PCBs	28	0	100
Herbicides	40	0	100
Explosives	68	0	100
Perchlorate	4	0	100
Metals	184	0	100
Nitrate as Nitrogen/Nitrite as Nitrogen	4	0	100
Total	1,256	1	99.9

The completeness percentage based on rejected data met the 90 percent PQO goal. A less quantifiable loss of data occurred in the application of blank qualifications as noted in Sections 2.2.2.2, 10.2.2.1, and 10.2.2.2.

13.5 Sensitivity

Sensitivity was achieved by the laboratory to support the DQOs. Calibration concentrations, DLs, and LOQs met the project requirements and low level contamination in the method and calibration blanks and equipment blanks, did not affect sensitivity.

Table I

Validation Sample Table

Table I

LDC	SDG	Client Sample ID	Lab Sample ID	Matrix	QC Type	Sample Date	Validation Level	Metals (6020A/6010C/7470A)	Dissolved Metals (6020A/6010C/7470A)	Perchlorate (6860)	Pesticides (8081A)	PCBs (8082A)	Herbicides (8151A)	VOC (8260C)	SVOC (8270D)	Explosives (8330B)	Nitrate as N & Nitrite as N (9056A)	Caprolactam (8270D)
42305A	160-28066-1	BGMW07042018	160-28066-1	Water		4/25/2018	Level IV							X				
42305A	160-28066-1	QC23042018BGMW EB	160-28066-2	Water	EB	4/25/2018	Level III							X				
42305A	160-28066-1	QC23042018BGMW TB	160-28066-3	Water	TB	4/25/2018	Level III							X				
42305B	160-28071-1	BGMW10042018	160-28071-1	Water		4/27/2018	Level III							X				
42305B	160-28071-1	QC27042018BGMW TB	160-28071-2	Water	TB	4/27/2018	Level III							X				
42305C	160-28153-1	BGMW09042018	160-28153-1	Water		5/1/2018	Level III							X				
42305C	160-28153-1	QC01052018BGMW TB	160-28153-2	Water	TB	5/1/2018	Level III							X				
42305C	160-28153-1	QC30042018BGMW EB	160-28153-3	Water	EB	5/1/2018	Level III							X				
42412F	280-109044-1	BGMW07042018	280-109044-1	Water		4/26/2018	Level III	X	X	X	X	X	X		X	X	X	
42412G	280-109044-2	BGMW07042018	280-109044-1	Water		4/26/2018	Level III											X
42412A	280-109119-1	BGMW10042018	280-109119-1	Water		4/27/2018	Level III	X	X	X	X	X	X		X	X	X	
42412B	280-109119-2	BGMW10042018	280-109119-1	Water		4/27/2018	Level III											X
42412D	280-109209-1	BGMW09042018	280-109209-1	Water		5/1/2018	Level III	X	X	X	X				X	X	X	
42412D	280-109209-1	QC30042018BGMW EB	280-109209-2	Water	EB	5/1/2018	Level III	X	X	X	X	X	X		X	X	X	
42412E	280-109209-2	BGMW09042018	280-109209-1	Water		5/1/2018	Level III											X

EB = Equipment Blank, TB = Trip Blank

Fort Wingate, GWM

Table I

LDC	SDG	Client Sample ID	Lab Sample ID	Matrix	QC Type	Sample Date	Validation Level	Metals (6020A/6010C/7470A)	Dissolved Metals (6020A/6010C/7470A)	Perchlorate (6860)	Pesticides (8081A)	PCBs (8082A)	Herbicides (8151A)	VOC (8260C)	SVOC (8270D)	Explosives (8330B)	Nitrate as N & Nitrite as N (9056A)	Caprolactam (8270D)
42412E	280-109209-2	QC30042018BGMW EB	280-109209-2	Water	EB	5/1/2018	Level III											X
42412C	280-109348-1	BGMW09042018	280-109348-1	Water		5/1/2018	Level IV					X	X					

EB = Equipment Blank, TB = Trip Blank

Fort Wingate, GWM

Appendix D
Attachment 1
Chain-of-Custody Forms

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Appendix D Attachment 1 - Chain of Custody Forms

COC ID: FWDAApr232018		TURNAROUND TIME: 15 days		RUSH:														
PROJECT/CLIENT INFO				LABORATORY		OTHER INFO												
Facility Name	Fort Wingate Depot Activity			Lab Name	TestAmerica-Denver		Shipping Date	04/23/2018										
Project	GW Monitoring			Lab Contact	Michelle Johnston		Shipping Company	FEDEX										
Sampling Company	Sundance Consulting, Inc.			Email	michelle.johnston@testamericainc.com		Possible Hazard ID	Unknown										
Address	8210 Louisiana Blvd. NE, Suite C			Address	4955 Yarrow St.		Sample Disposal	Active 60 days after invoice										
City	Albuquerque	State	NM	City	Arvada	State	CO	Cooler Count	8									
Postal Code	87113			Postal Code	80002													
Phone Number	505-835-7660			Phone Number	303-736-0100													
Project Manager	Beth Davis																	
Phone Number	505-417-4553																	
SAMPLE DETAILS				ANALYSIS REQUESTED														
Sample ID	Date	Time (24hr)	G=Grab C=Comp	Matrix	Sample Type	Number of Containers	Explosives	Metals-Dissolved	Metals-Total	Nitrate/Nitrites	Pesticides	SVOCs	DRO	GRO	Perchlorate	Herbicides	PCBs	
FW31042018	4/23/2018	1220	G	WG	N	9	2	1	1	1	2	2						
MW01042018	4/23/2018	1258	G	WG	N	13	2	1	1	1	2		2	3	1			
MW02042018	4/23/2018	1336	G	WG	N	9	2	1	1	1				3	1			
MW24042018	4/23/2018	1025	G	WG	N	10	2	1	1	1	2	2			1			
MW24042018FD	4/23/2018	1025	G	WG	FD	10	2	1	1	1	2	2			1			
QC04042018BGMW EB	4/23/2018	0815	G	WQ	BGMW EB	14	2	1	1	1	2	2			1	2	2	
QC23042018EB2	4/23/2018	0815	G	WQ	EB2	13	2	1	1	1	2	2		3	1			
QC23042018TBGRO	4/23/2018	0818	G	WQ	TBGRO	2								2				
TMW29042018	4/23/2018	1410	G	WG	N	6	2	1	1	1					1			
ADDITIONAL COMMENTS/SPECIAL INSTRUCTIONS				RELINQUISHED BY		DATE	ACCEPTED BY		DATE/TIME									
1.4, 1.4, 1.0, 1.0, 0.4, 2.3, 10.2°C ± 0.0 IR #8				Mckenzie B		04/23/2018	R. R. TA-DCN		4/24/18 0900									
COMPANY				Sundance Consulting Inc.		COMPANY												
						Security Seals Intact												
						Cooler Temps Acceptable												

COC ID: FWDAApr232018_STL		TURNAROUND TIME: 15 days		RUSH:	
PROJECT/CLIENT INFO				LABORATORY	
Facility Name Fort Wingate Depot Activity				Lab Name TestAmerica-St. Louis	
Project GW MONITORING				Lab Contact Michelle Johnston	
Sampling Company Sundance Consulting, Inc.				Email michelle.johnston@testamericainc.com	
Address 8210 Louisiana Blvd. NE, Suite C				Address 13715 Rider Trail North	
City Albuquerque State NM				City Earth City State MO	
Postal Code 87113				Postal Code 63045-1205	
Phone Number 505-835-7660				Phone Number 314-298-8566	
Project Manager Beth Davis					
Phone Number 505-417-4553					
SAMPLE DETAILS				ANALYSIS REQUESTED	
Sample ID	Date	Time (24hr)	G=Grab C=Comp	Matrix	Sample Type
FW31042018	4/23/18	1220	G	WG	N
MW01042018	4/23/18	1258	G	WG	N
MW02042018	4/23/18	1336	G	WG	N
MW24042018	4/23/18	1025	G	WG	N
MW24042018FD	4/23/18	1025	G	WG	FD
~~QC23042018B2~~	~~0815~~	~~0815~~	~~G~~	~~WQ~~	~~EB2~~
QC23042018EB2	4/23/18	0815	G	WQ	EB2
QC23042018TB	4/23/18	0818	G	WQ	TB
TMW29042018	4/23/18	1410	G	WG	N
ADDITIONAL COMMENTS/SPECIAL INSTRUCTIONS				RELINQUISHED BY	
				Beth Davis	
				DATE	
				04/23/2018	
				ACCEPTED BY	
				Kristen Taylor	
				DATE/TIME	
				4-24-18 0910	
COMPANY Sundance Consulting Inc.				COMPANY	
				Security Seals Intact	
				Cooler Temps Acceptable	

COC ID: FWDAApr242018_STL							TURNAROUND TIME: 15 days				RUSH:									
PROJECT/CLIENT INFO							LABORATORY				OTHER INFO									
Facility Name Fort Wingate Depot Activity							Lab Name TestAmerica-St. Louis				Shipping Date 04/24/2018									
Project GW Monitoring							Lab Contact Michelle Johnston				Shipping Company FEDEX									
Sampling Company Sundance Consulting, Inc.							Email michelle.johnston@testamericaine.com				Possible Hazard ID Unknown									
Address 8210 Louisiana Blvd. NE, Suite C							Address 13715 Rider Trail North				Sample Disposal Active 60 days after invoice									
City Albuquerque State NM							City Earth City State MO				Cooler Count 1									
Postal Code 87113							Postal Code 63045-1205													
Phone Number 505-835-7660							Phone Number 314-298-8566													
Project Manager Beth Davis																				
Phone Number 505-417-4553																				
SAMPLE DETAILS							ANALYSIS REQUESTED													
Sample ID	Date	Time (24hr)	G=Grab C=Comp	Matrix	Sample Type	Number of Containers	Filtration - F: Field; L: Lab; FL: Field & Lab; N: None													
							HCL													
							ANALYSIS	VOCs												
BGMW03042018	4/24/2018	0814	G	WG	N	3		3												
MW23042018	4/24/2018	0815	G	WG	N	3		3												
MW23042018FD	4/24/2018	0815	G	WG	FD	3		3												
MW23042018MS	4/24/2018	0815	G	WQ	MS	3		3												
MW23042018MSD	4/24/2018	0815	G	WQ	MSD	3		3												
QC24042018TB	4/24/2018	0815	G	WQ	TB	2		2												
TMW10042018	4/24/2018	0901	G	WG	N	3		3												
ADDITIONAL COMMENTS/SPECIAL INSTRUCTIONS							RELINQUISHED BY		DATE		ACCEPTED BY		DATE/TIME							
							Beth Davis		04/24/2018		Kristine Taylor		4-26-18 20015							
COMPANY							Sundance Consulting Inc.							COMPANY						
														Security Seals Intact						
														Cooler Temps Acceptable						

COC ID: FWDAApr252018		TURNAROUND TIME: 15 days		RUSH:												
PROJECT/CLIENT INFO				LABORATORY												
Facility Name Fort Wingate Depot Activity				Lab Name TestAmerica-Denver												
Project GW Monitoring				Lab Contact Michelle Johnston												
Sampling Company Sundance Consulting, Inc.				Email michelle.johnston@testamericainc.com												
Address 8210 Louisiana Blvd. NE, Suite C				Address 4955 Yarrow St.												
				Shipping Date 04/25/2018												
				Shipping Company FEDEX												
				Possible Hazard ID Unknown												
				Sample Disposal Active 60 days after invoice												
				Cooler Count 12												
City Albuquerque		State NM		City Arvada												
Postal Code 87113				Postal Code 80002												
Phone Number 505-835-7660				Phone Number 303-736-0100												
Project Manager Beth Davis																
Phone Number 505-417-4553																
SAMPLE DETAILS				ANALYSIS REQUESTED												
Sample ID	Date	Time (24hr)	G=Grab C=Comp	Matrix	Sample Type	Number of Containers	Filtered - F: Field, L: Lab; FL: Field & Lab; N: No									
							ICE	ICE	HCL	HNO3	ICE	HNO3	ICE	ICE	ICE	
							DRO	Explosives	GRO	Metals-Total	Nitrate/Nitrites	Metals-Dissolved	SVOCs	Perchlorate	Pesticides	
MW18D042018	4/25/2018	0847	G	WG	N	11	2	2	3	1	1	1		1		
QC25042018TBGRO	4/25/2018	0815	G	WQ	TBGRO	2			2							
TMW07042018	4/25/2018	1011	G	WG	N	7		2		1	1	1	2			
TMW16042018	4/25/2018	0925	G	WG	N	7		2		1		1	2	1		
TMW18042018	4/25/2018	1000	G	WG	N	8		2		1	1	1	2	1		
TMW19042018	4/25/2018	1040	G	WG	N	7		2		1		1	2	1		
TMW22042018	4/25/2018	0859	G	WG	N	8		2		1	1	1	2	1		
TMW23042018	4/25/2018	1053	G	WG	N	8		2		1	1	1		1	2	
TMW31S042018	4/25/2018	1124	G	WG	N	10		2		1	1	1		1	2	
TMW33042018	4/25/2018	0928	G	WG	N	10	2		3	1	1	1	2			
ADDITIONAL COMMENTS/SPECIAL INSTRUCTIONS				RELINQUISHED BY		DATE	ACCEPTED BY		DATE/TIME							
				[Signature]		04/25/2018	[Signature]		4-27-18 0910							
COMPANY		Sundance Consulting Inc.				COMPANY										
						Security Seals Intact										
						Cooler Temps Acceptable										

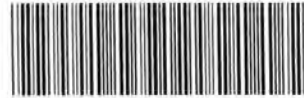
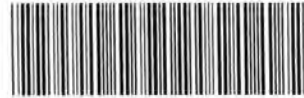
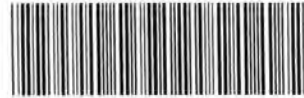
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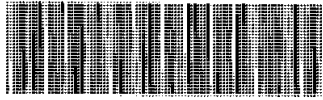
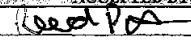
COC ID: FWDAApr252018		TURNAROUND TIME: 15 days		RUSH:											
PROJECT/CLIENT INFO				LABORATORY		OTHER INFO									
Facility Name	Fort Wingate Depot Activity			Lab Name	TestAmerica-Denver		Shipping Date	04/25/2018							
Project	GW Monitoring			Lab Contact	Michelle Johnston		Shipping Company	FEDEX							
Sampling Company	Sundance Consulting, Inc.			Email	michelle.johnston@testamericainc.com		Possible Hazard ID	Unknown							
Address	8210 Louisiana Blvd. NE, Suite C			Address	4955 Yarrow St.		Sample Disposal	Active 60 days after invoice							
City	Albuquerque	State	NM	City	Arvada	State	CO	Cooler Count	12						
Postal Code	87113			Postal Code	80002										
Phone Number	505-835-7660			Phone Number	303-736-0100										
Project Manager	Beth Davis														
Phone Number	505-417-4553														
SAMPLE DETAILS				ANALYSIS REQUESTED											
Sample ID	Date	Time (24hr)	G=Grab C=Comp	Matrix	Sample Type	Number of Containers	DRO	Explosives	GRO	Metals-Total	Nitrate/Nitrites	Metals-Dissolved	SVOCs	Perchlorate	Pesticides
TMW36042018	4/25/2018	0810	G	WG	N	10		2		1	1	1	2	1	2
TMW37042018	4/25/2018	0845	G	WG	N	10		2		1	1	1	2	1	2
TMW39S042018	4/25/2018	1025	G	WG	N	10		2		1	1	1	2	1	2
TMW40S042018	4/25/2018	0815	G	WG	N	3		2			1				
TMW41042018	4/25/2018	1155	G	WG	N	10		2		1	1	1	2	1	2
TMW44042018	4/25/2018	0939	G	WG	N	10		2		1	1	1	2	1	2
TMW46042018	4/25/2018	0800	G	WG	N	10		2		1	1	1	2	1	2
ADDITIONAL COMMENTS/SPECIAL INSTRUCTIONS							RELINQUISHED BY		DATE		ACCEPTED BY		DATE/TIME		
							MICHELLE B-L		04/25/2018		Alyssa Long		4-27-18 0910		
COMPANY				Sundance Consulting Inc.				COMPANY							
								Security Seals Intact							
								Cooler Temps Acceptable							

[illegible]

COC ID:		FWDAAPr252018_STL		TURNAROUND TIME: 15 days		RUSH:			
PROJECT/CLIENT INFO				LABORATORY		OTHER INFO			
Facility Name	Fort Wingate Depot Activity			Lab Name	TestAmerica-St. Louis		Shipping Date	04/25/2018	
Project	GW Monitoring			Lab Contact	Michelle Johnston		Shipping Company	FEDEX	
Sampling Company	Sundance Consulting, Inc.			Email	michelle.johnston@testamericainc.com		Possible Hazard ID	Unknown	
Address	8210 Louisiana Blvd. NE, Suite C			Address	13715 Rider Trail North		Sample Disposal	Active 60 days after invoice	
City	Albuquerque	State	NM	City	Earth City	State	MO	Cooler Count	1
Postal Code	87113			Postal Code	63045-1205				
Phone Number	505-835-7660			Phone Number	314-298-8566				
Project Manager	Beth Davis								
Phone Number	505-417-4553								
SAMPLE DETAILS							ANALYSIS REQUESTED		
Sample ID	Date	Time (24hr)	G=Grab C=Comp	Matrix	Sample Type	Number of Containers	VOCs	Filtered - F: Field, L: Lab, FL: Field & Lab, N: No	
TMW36042018	4/25/2018	0810	G	WG	N	3	3		
TMW37042018	4/25/2018	0845	G	WG	N	3	3		
TMW39S042018	4/25/2018	1025	G	WG	N	3	3		
TMW40S042018	4/25/2018	0815	G	WG	N	3	3		
TMW41042018	4/25/2018	1155	G	WG	N	3	3		
TMW44042018	4/25/2018	0939	G	WG	N	3	3		
TMW46042018	4/25/2018	0800	G	WG	N	3	3		
ADDITIONAL COMMENTS/SPECIAL INSTRUCTIONS							RELINQUISHED BY		
							DATE	ACCEPTED BY	
							04/25/2018	4-20-18 0915	
COMPANY							Sundance Consulting Inc.	COMPANY	
							Security Seals Intact		
							Cooler Temps Acceptable		

[illegible]

									
COC ID: BGWMApr262018_STL				TURNAROUND TIME: 15 days				RUSH:	
PROJECT/CLIENT INFO						LABORATORY		OTHER INFO	
Facility Name		Fort Wingate Depot Activity				Lab Name		TestAmerica-SL Louis	
Project		BGMW GW Sampling				Lab Contact		Michelle Johnston	
Sampling Company		Sundance Consulting, Inc.				Email		michelle.johnston@testamericainc.com	
Address		8210 Louisiana Blvd. NE, Suite C				Address		13715 Rider Trail North	
City		Albuquerque		State		NM		City	
Postal Code		87113		City		Earth City		State	
Phone Number		505-835-7660		Postal Code		63045-1205		MO	
Project Manager		Beth Davis				Phone Number		314-298-8566	
Phone Number		505-417-4553							
SAMPLE DETAILS							ANALYSIS REQUESTED		
Sample ID	Date	Time (24hr)	G=Grab C=Comp	Matrix	Sample Type	Number of Containers	Filtered - F; Field; L: Lab; FL: Field & Lab; N: None		
BGMW07042018	4/26/2018	1236	G	WG	N	3	ANALYSIS  160-28066 Chain of Custody		
QC23042018BGMW EB	4/23/2018	0815	G	WG	BGMW EB	3	VOCs  160-28066 Chain of Custody		
QC23042018BGMW TB	4/23/2018	0818	G	WQ	BGMW TB	2	VOCs  160-28066 Chain of Custody		
ADDITIONAL COMMENTS/SPECIAL INSTRUCTIONS							RELINQUISHED BY		
							DATE		
							ACCEPTED BY		
							DATE/TIME		
							COMPANY		
							Sundance Consulting Inc.		
							COMPANY		
							Security Seals Intact		
							Cooler Temps Acceptabl		

Sundance Consulting Inc.															
COC ID: FWDAApr262018		TURNAROUND TIME: 15 days				RUSH:									
PROJECT/CLIENT INFO							LABORATORY			OTHER INFO					
Facility Name Fort Wingate Depot Activity		Lab Name TestAmerica-Denver		Shipping Date 04/26/2018											
Project GW Monitoring		Lab Contact Michelle Johnston		Shipping Company FEDEX											
Sampling Company Sundance Consulting, Inc.		Email michelle.johnston@testamericainc.com		Possible Hazard ID Unknown											
Address 8210 Louisiana Blvd. NE, Suite C		Address 4955 Yarrow St.		Sample Disposal Active 60 days after invoice											
City Albuquerque State NM		City Arvada State CO		Cooler Count 6											
Postal Code 87113		Postal Code 80002													
Phone Number 505-835-7660		Phone Number 303-736-0100													
Project Manager Beth Davis															
Phone Number 505-417-4553															
SAMPLE DETAILS							ANALYSIS REQUESTED								
 280-109042 Chain of Custody							Filtered - F: Field, L: Lab, FL: Field & Lab, N: None								
							ICE	HNO3	HNO3	ICE	F	ICE	ICE	ICE	
Sample ID	Date	Time (24hr)	G=Grab C=Comp	Matrix	Sample Type	Number of Containers	Explosives	Metals-Dissolved	Metals-Total	Nitrate/Nitrites	Perchlorate	Pesticides	SVOCs		
BGMW02042018	4/26/2018	0907	G	WG	N	10	2	1	1	1	1	2	2		
BGMW02042018MS	4/26/2018	0907	G	WQ	MS	10	2	1	1	1	1	2	2		
BGMW02042018MSD	4/26/2018	0907	G	WQ	MSD	10	2	1	1	1	1	2	2		
SMW01042018	4/26/2018	1122	G	WG	N	8	2	1	1	1	1		2		
TMW26042018	4/26/2018	1315	G	WG	N	6	2	1	1	1	1				
TMW27042018	4/26/2018	0927	G	WG	N	3		1	1		1				
TMW28042018	4/26/2018	1315	G	WG	N	3		1	1	1					
TMW30042018	4/26/2018	1059	G	WG	N	10	2	1	1	1	1	2	2		
TMW40S042018	4/25/2018	0815	G	WG	N	3		1	1		1				
ADDITIONAL COMMENTS/SPECIAL INSTRUCTIONS							RELINQUISHED BY		DATE		ACCEPTED BY		DATE/TIME		
1.9, 0.9, 1.3, 0.1, 5.3, 1.0, 2.1, 2.6									04/26/2018				4-27-18 0910		
1.4 IR# 8 6.0 TransRev															
RP 4-27-18															
COMPANY Sundance Consulting Inc.							COMPANY								
									Security Seals Intact						
									Cooler Temps Acceptable						

Sundance Consulting, Inc.									
COC ID: FWDAApr262018 STL				TURNAROUND TIME: 15 days				RUSH:	
PROJECT/CLIENT INFO						LABORATORY		OTHER INFO	
Facility Name Fort Wingate Depot Activity						Lab Name TestAmerica-St. Louis		Shipping Date 04/26/2018	
Project GW Monitoring						Lab Contact Michelle Johnston		Shipping Company FEDEX	
Sampling Company Sundance Consulting, Inc.						Email michelle.johnston@testamericainc.com		Possible Hazard ID Unknown	
Address 8210 Louisiana Blvd. NE, Suite C						Address 13715 Rider Trail North		Sample Disposal Active 60 days after invoice	
City Albuquerque State NM						City Earth City State MO		Cooler Count 1	
Postal Code 87113						Postal Code 63045-1205			
Phone Number 505-835-7660						Phone Number 314-298-8566			
Project Manager Beth Davis									
Phone Number 505-417-4553									
SAMPLE DETAILS							ANALYSIS REQUESTED		
Sample ID	Date	Time (24hr)	G=Grab C=Comp	Matrix	Sample Type	Number of Containers	Filtered: P: Field, L: Lab, FL: Field & Lab, N: None		
BGMW02042018	4/26/2018	0907	G	WG	N	3	HCL		
BGMW02042018MS	4/26/2018	0907	G	WQ	MS	3			
BGMW02042018MSD	4/26/2018	0907	G	WQ	MSD	3			
QC26042018TB	4/26/2018	0805	G	WQ	TB	2			
SMW01042018	4/26/2018	1122	G	WG	N	3			
TMW26042018	4/26/2018	1315	G	WG	N	3			
TMW26042018FD	4/26/2018	1315	G	WG	FD	3			
TMW27042018	4/26/2018	0927	G	WG	N	3			
TMW28042018	4/26/2018	1315	G	WG	N	3			
TMW30042018	4/26/2018	1059	G	WG	N	3			
ADDITIONAL COMMENTS/SPECIAL INSTRUCTIONS							RELINQUISHED BY		DATE
							[Signature]		04/26/2018
							ACCEPTED BY		DATE/TIME
							[Signature]		4-27-18 09:10
COMPANY Sundance Consulting Inc.							COMPANY		
							Security Seals Intact		
							Cooler Temps Acceptable		

[illegible]

[illegible]

Sundance Consulting Inc.										TURNAROUND TIME: 15 days										RUSH:																																																																																																																																																																																																					
COC ID: FWDAApr272018										LABORATORY										OTHER INFO																																																																																																																																																																																																					
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Facility Name: Fort Wingate Depot/Activity					Lab Name: TestAmerica-Denver					Shipping Date: 04/27/2018																																																																																																																																																																																																															
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Sampling Company: Sundance Consulting, Inc.					Email: michelle.johnston@testamericaine.com					Possible Hazard ID: Unknown																																																																																																																																																																																																															
Address: 8210 Louisiana Blvd. NE, Suite C					Address: 4955 Yarrow St.					Sample Disposal: Active 60 days after invoice																																																																																																																																																																																																															
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City: Albuquerque State: NM					City: Arvada State: CO																																																																																																																																																																																																																				
Postal Code: 87113					Postal Code: 80002																																																																																																																																																																																																																				
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 280-109120 Chain of Custody										<table border="1"> <thead> <tr> <th colspan="2">F</th> <th colspan="2">F</th> <th colspan="2">F</th> <th colspan="2">F</th> <th colspan="2">F</th> <th colspan="2">F</th> <th colspan="2">F</th> <th colspan="2">F</th> <th colspan="2">F</th> <th colspan="2">F</th> </tr> <tr> <th>ICE</th> <th>HNO3</th> <th>HNO3</th> <th>ICE</th> <th>ICE</th> <th>ICE</th> <th>ICE</th> <th>ICE</th> <th>ICE</th> <th>ICE</th> <th>HCL</th> <th>ICE</th> <th>ICE</th> <th>ICE</th> <th>ICE</th> <th>ICE</th> <th>ICE</th> <th>ICE</th> <th>ICE</th> <th>ICE</th> </tr> </thead> </table>										F		F		F		F		F		F		F		F		F		F		ICE	HNO3	HNO3	ICE	ICE	ICE	ICE	ICE	ICE	ICE	HCL	ICE	ICE	ICE	ICE	ICE	ICE	ICE	ICE	ICE																																																																																																																																																														
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<table border="1"> <thead> <tr> <th>Sample ID</th> <th>Date</th> <th>Time (24hr)</th> <th>G=Grab C=Comp</th> <th>Matrix</th> <th>Sample Type</th> <th>Number of Containers</th> <th>Explosives</th> <th>Metals-Dissolved</th> <th>Metals-Total</th> <th>Nitrate/Nitrites</th> <th>Perchlorate</th> <th>Pesticides</th> <th>SVOCs</th> <th>DRO</th> <th>GRO</th> <th>Herbicides</th> <th>PCBs</th> </tr> </thead> <tbody> <tr> <td>BGMW01042018</td> <td>4/27/2018</td> <td>1217</td> <td>G</td> <td>WG</td> <td>N</td> <td>10</td> <td>2</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>2</td> <td>2</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>BGMW030420182</td> <td>4/27/2018</td> <td>0805</td> <td>G</td> <td>WG</td> <td>2-</td> <td>1</td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>MW020420182</td> <td>4/27/2018</td> <td>0832</td> <td>G</td> <td>WG</td> <td>2</td> <td>1</td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>MW03042018</td> <td>4/27/2018</td> <td>0944</td> <td>G</td> <td>WG</td> <td>N</td> <td>11</td> <td>2</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td></td> <td></td> <td>2</td> <td>3</td> <td></td> <td></td> </tr> <tr> <td>MW22D042018</td> <td>4/27/2018</td> <td>1140</td> <td>G</td> <td>WG</td> <td>N</td> <td>15</td> <td>2</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>2</td> <td>2</td> <td>2</td> <td>3</td> <td></td> <td></td> </tr> <tr> <td>QC27042018EB</td> <td>4/27/2018</td> <td>0955</td> <td>G</td> <td>WQ</td> <td>EB</td> <td>14</td> <td>2</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>2</td> <td>2</td> <td></td> <td></td> <td>2</td> <td>2</td> </tr> <tr> <td>QC27042018TBGRO</td> <td>4/27/2018</td> <td>0739</td> <td>G</td> <td>WQ</td> <td>TBGRO</td> <td>2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2</td> <td></td> <td></td> </tr> <tr> <td>TMW08042018</td> <td>4/27/2018</td> <td>1001</td> <td>G</td> <td>WG</td> <td>N</td> <td>11</td> <td></td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>2</td> <td></td> <td>2</td> <td>3</td> <td></td> <td></td> </tr> <tr> <td>TMW100420182</td> <td>4/27/2018</td> <td>0750</td> <td>G</td> <td>WG</td> <td>2</td> <td>1</td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>TMW34042018</td> <td>4/27/2018</td> <td>0900</td> <td>G</td> <td>WG</td> <td>N</td> <td>9</td> <td></td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td></td> <td></td> <td>2</td> <td>3</td> <td></td> <td></td> </tr> </tbody> </table>										Sample ID	Date	Time (24hr)	G=Grab C=Comp	Matrix	Sample Type	Number of Containers	Explosives	Metals-Dissolved	Metals-Total	Nitrate/Nitrites	Perchlorate	Pesticides	SVOCs	DRO	GRO	Herbicides	PCBs	BGMW01042018	4/27/2018	1217	G	WG	N	10	2	1	1	1	1	2	2					BGMW030420182	4/27/2018	0805	G	WG	2-	1				1								MW020420182	4/27/2018	0832	G	WG	2	1				1								MW03042018	4/27/2018	0944	G	WG	N	11	2	1	1	1	1			2	3			MW22D042018	4/27/2018	1140	G	WG	N	15	2	1	1	1	1	2	2	2	3			QC27042018EB	4/27/2018	0955	G	WQ	EB	14	2	1	1	1	1	2	2			2	2	QC27042018TBGRO	4/27/2018	0739	G	WQ	TBGRO	2									2			TMW08042018	4/27/2018	1001	G	WG	N	11		1	1	1	1	2		2	3			TMW100420182	4/27/2018	0750	G	WG	2	1				1								TMW34042018	4/27/2018	0900	G	WG	N	9		1	1	1	1			2	3												
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BGMW030420182	4/27/2018	0805	G	WG	2-	1				1																																																																																																																																																																																																															
MW020420182	4/27/2018	0832	G	WG	2	1				1																																																																																																																																																																																																															
MW03042018	4/27/2018	0944	G	WG	N	11	2	1	1	1	1			2	3																																																																																																																																																																																																										
MW22D042018	4/27/2018	1140	G	WG	N	15	2	1	1	1	1	2	2	2	3																																																																																																																																																																																																										
QC27042018EB	4/27/2018	0955	G	WQ	EB	14	2	1	1	1	1	2	2			2	2																																																																																																																																																																																																								
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TMW08042018	4/27/2018	1001	G	WG	N	11		1	1	1	1	2		2	3																																																																																																																																																																																																										
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TMW34042018	4/27/2018	0900	G	WG	N	9		1	1	1	1			2	3																																																																																																																																																																																																										
ADDITIONAL COMMENTS/SPECIAL INSTRUCTIONS										REQUESTED BY																																																																																																																																																																																																															
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										COOLER TEMPS ACCEPTABLE																																																																																																																																																																																																															

Sundance Consulting Inc.		COC ID: FWDAApr272018		TURNAROUND TIME: 15 days		RUSH:														
PROJECT/CLIENT INFO				LABORATORY		OTHER INFO														
Facility Name	Fort Wingate Depot Activity			Lab Name	TestAmerica-Denver		Shipping Date	04/27/2018												
Project	GW Monitoring			Lab Contact	Michelle Johnston		Shipping Company	FEDEX												
Sampling Company	Sundance Consulting, Inc.			Email	michelle.johnston@testamericainc.com		Possible Hazard ID	Unknown												
Address	8210 Louisiana Blvd. NE, Suite C			Address	4955 Yarrow St.		Sample Disposal	Active 60 days after invoice												
City	Albuquerque	State	NM	City	Arvada	State	CO	Cooler Count	10											
Postal Code	87113			Postal Code	80002															
Phone Number	505-835-7660			Phone Number	303-736-0100															
Project Manager	Beth Davis																			
Phone Number	505-417-4553																			
SAMPLE DETAILS							ANALYSIS REQUESTS (C/D)													
Sample ID	Date	Time (24hr)	G=Grab C=Comp	Matrix	Sample Type	Number of Containers	Explosives	Metals-Dissolved	Metals-Total	Nitrate/Nitrites	Perchlorate	Pesticides	SVOCs	DRO	GRO	Herbicides	PCBs			
TMW34042018FD	4/27/2018	0900	G	WG	FD	9		1	1	1	1				2	3				
TMW35042018	4/27/2018	1157	G	WG	N-	13		1	1	1	1	2	2	2	3					
TMW40S042018	4/25/2018	0815	G	WG	N	2						1	1							
ADDITIONAL COMMENTS/SPECIAL INSTRUCTIONS							PREPARED BY		DATE		ACCEPTED BY		DATE/TIME							
							Michelle B. R.		04/27/2018		Kearney		4-28-18 0900							
COMPANY							Sundance Consulting Inc.							COMPANY						
														Security Seals Intact						
														Cooler Temps Acceptable						

Sundance Consulting Inc.		COC ID: FWDAApr272018_STL		TURNAROUND TIME: 15 days		RUSH:	
PROJECT/CLIENT INFO				LABORATORY		OTHER INFO	
Facility Name Fort Wingate Depot Activity				Lab Name TestAmerica-St. Louis		Shipping Date 04/27/2018	
Project GW Sampling				Lab Contact Michelle Johnston		Shipping Company FEDEX	
Sampling Company Sundance Consulting, Inc.				Email michelle.johnston@testamericainc.com		Possible Hazard ID Unknown	
Address 8210 Louisiana Blvd. NE, Suite C				Address 13715 Rider Trail North		Sample Disposal Active 60 days after invoice	
City Albuquerque State NM				City Earth City State MO		Cooler Count 1	
Postal Code 87113				Postal Code 63045-1205			
Phone Number 505-835-7660				Phone Number 314-298-8566			
Project Manager Beth Davis							
Phone Number 505-417-4553							
SAMPLE DETAILS				ANALYSIS REQUESTED Filtered - F; Field, L; Lab, PL; Field & Lab, N; None			
Sample ID	Date	Time (24hr)	G=Grab C=Comp	Matrix	Sample Type	Number of Containers	ANALYSIS
BGMW01042018	4/27/2018	1217 /	G	WG	N	3	VOCs
MW03042018	4/27/2018	0944 /	G	WG	N	3	HCL
MW22D042018	4/27/2018	1140 /	G	WG	N	3	
MW22D042018MS	4/27/2018	1140 /	G	WQ	MS	3	
MW22D042018MSD	4/27/2018	1140 /	G	WQ	MSD	3	
QC27042018EB	4/27/2018	0955 /	G	WQ	EB	3	
QC27042018TB	4/27/2018	0737 /	G	WQ	TB	2	
TMW08042018	4/27/2018	1001 /	G	WG	N	3	
TMW34042018	4/27/2018	0900 /	G	WG	N	3	
TMW34042018FD	4/27/2018	0900 /	G	WG	FD	3	
ADDITIONAL COMMENTS/SPECIAL INSTRUCTIONS				RELINQUISHED BY		DATE	ACCEPTED BY
				<i>[Signature]</i>		04/27/2018	<i>[Signature]</i> 42513 6850
COMPANY Sundance Consulting Inc.				COMPANY			
						Security Seals Intact	
						Cooler Temps Acceptable	

[illegible]

Sundance Consulting Inc.															
COC ID:	FWDAApr302018		TURNAROUND TIME:	15 days	RUSH:										
PROJECT/CUSTOMER INFO			LABORATORY		OTHER INFO										
Facility Name	Fort Wingate Depot Activity		Lab Name	TestAmerica-Denver											
Project	GW Sampling		Lab Contact	Michelle Johnston											
Sampling Company	Sundance Consulting, Inc.		Email	michelle.johnston@testamericainc.com											
Address	8210 Louisiana Blvd. NE, Suite C		Address	4955 Yarrow St.											
City	Albuquerque	State	NM	City	Arvada										
Postal Code	87113	State	CO	Postal Code	80002										
Phone Number	505-835-7660		Phone Number	303-736-0100											
Project Manager	Beth Davis														
Phone Number	505-417-4553														
SAMPLE DETAILS			ANALYSIS REQUESTED												
 280-109162 Chain of Custody	Sample ID	Date	Time (24hr)	G=Grab C=Comp	Matrix	Sample Type	Number of Containers	DRO	Explosives	HCL	HNO3	F	ICE	Pesticides	SVOC _s
	MW20042018	4/30/2018	0925 ✓	G	WG	N	15	2	2	3	1	1	1	1	2
	QC30042018TBGRO	4/30/2018	0755 ✓	G	WQ	TBGRO	2			2					
	TMW03042018	4/30/2018	1216 ✓	G	WG	N	8		2		1	1	1		2
	TMW06042018	4/30/2018	1258 ✓	G	WG	N	7		2		1	1	1		2
	TMW24042018	4/30/2018	0955 ✓	G	WG	N	8		2		1	1	1	1	2
	TMW25042018	4/30/2018	1045 ✓	G	WG	N	5		2		1	1	1		
ADDITIONAL COMMENTS/SPECIAL INSTRUCTIONS								DATE RECEIVED BY		DATE ACCEPTED BY		DATE/TIME			
								04/30/2018		[Signature]		5-1-18 0900 TADEN			
COMPANY Sundance Consulting Inc.				SECURITY SEALS INTACT				COOLER TEMPS ACCEPTABLE							

[illegible]

Page 1 of 1

COC ID: FWDAMay012018		TURNAROUND TIME: 15 days		RUSH:																																																			
Facility Name Fort Wingate Depot Activity		Lab Name TestAmerica-Denver		Shipping Date 05/01/2018																																																			
Project GW Monitoring		Lab Contact Michelle Johnston		Shipping Company FEDEX																																																			
Sampling Company Sundance Consulting, Inc.		Email michelle.johnston@testamericainc.com		Possible Hazard ID Unknown																																																			
Address 8210 Louisiana Blvd. NE, Suite C		Address 4955 Yarrow St.		Sample Disposal Active 60 days after invoice																																																			
City Albuquerque State NM		City Arvada State CO		Cooler Count 3																																																			
Postal Code 87113		Postal Code 80002																																																					
Phone Number 505-835-7660		Phone Number 303-736-0100																																																					
Project Manager Beth Davis																																																							
Phone Number 505-417-4553																																																							
SAMPLE DETAILS																																																							
Sample ID	Date	Time (24hr)	G=Grab C=Comp	Matrix	Sample Type	Number of Containers																																																	
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TMW21042018	5/1/2018	1231	G	WG	N	6																																																	
TMW32042018	5/1/2018	1110	G	WG	N	10																																																	
TMW38042018	5/1/2018	0940	G	WG	N	10																																																	
TMW40D042018	5/1/2018	1035	G	WG	N	10																																																	
ANALYSIS REQUIRED																																																							
<table border="1"> <thead> <tr> <th>Explosives</th> <th>Metals-Dissolved</th> <th>Metals-Total</th> <th>Nitrate/Nitrites</th> <th>Perchlorate</th> <th>Pesticides</th> <th>SVOCs</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td></td> <td></td> </tr> <tr> <td></td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>2</td> <td>2</td> </tr> <tr> <td>2</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>2</td> <td>2</td> </tr> <tr> <td>2</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>2</td> <td>2</td> </tr> </tbody> </table>							Explosives	Metals-Dissolved	Metals-Total	Nitrate/Nitrites	Perchlorate	Pesticides	SVOCs	2	1	1	1	1				1	1	1	1			2	1	1	1	1			2	1	1	1	1	2	2	2	1	1	1	1	2	2	2	1	1	1	1	2	2
Explosives	Metals-Dissolved	Metals-Total	Nitrate/Nitrites	Perchlorate	Pesticides	SVOCs																																																	
2	1	1	1	1																																																			
	1	1	1	1																																																			
2	1	1	1	1																																																			
2	1	1	1	1	2	2																																																	
2	1	1	1	1	2	2																																																	
2	1	1	1	1	2	2																																																	
 280-109210 Chain of Custody																																																							
ADDITIONAL COMMENTS/SPECIAL INSTRUCTIONS																																																							
DATE: 05/01/2018 BY: B. B. TADEN TIME: 5/2/18 0845 DATE: 5/2/18 TIME: 0845																																																							
COMPANY: Sundance Consulting Inc. Security Seals Intact Cooler Temps Acceptabl COMPANY: 1.8, 1.8, 0.1°C ± 0.0 TADEN Transferred BB 5/2/18																																																							

Sundance Consulting Inc.														
COC ID:		FWDAMay012018_STL				TURNAROUND TIME: 15 days		RUSH:						
PROJECT/CLIENT INFO							LABORATORY		OTHER INFO					
Facility Name	Fort Wingate Depot Activity					Lab Name	TestAmerica-St. Louis		Shipping Date	05/01/2018				
Project	GW Monitoring					Lab Contact	Michelle Johnston		Shipping Company	FEDEX				
Sampling Company	Sundance Consulting, Inc.					Email	michelle.johnston@testamericainc.com		Possible Hazard ID	Unknown				
Address	8210 Louisiana Blvd, NE, Suite C					Address	13715 Rider Trail North		Sample Disposal	Active 60 days after invoice				
City	Albuquerque	State	NM			City	Earth City	State	MO	Cooler Count	1			
Postal Code	87113					Postal Code	63045-1205							
Phone Number	505-835-7660					Phone Number	314-298-8566							
Project Manager	Beth Davis													
Phone Number	505-417-4553													
SAMPLE DETAILS							ANALYSIS REQUESTED							
Sample ID	Date	Time (24hr)	G=Grab C=Comp	Matrix	Sample Type	Number of Containers	Filtered - F: Field, L: Lab, FL: Field & Lab, N: None							
							HCL							
							ANALYSIS	VOCs	160-28148 Chain of Custody					
QC01052018TB /	5/1/2018	0811	G	WQ	TB	2			2					
TMW02042018 /	5/1/2018	0903	G	WG	N	3			3					
TMW13042018 /	5/1/2018	0940	G	WG	N	3			3					
TMW21042018 /	5/1/2018	1231	G	WG	N	3			3					
TMW32042018 /	5/1/2018	1110	G	WG	N	3			3					
TMW38042018 /	5/1/2018	0940	G	WG	N	3			3					
TMW40D042018 /	5/1/2018	1035	G	WG	N	3			3					
ADDITIONAL COMMENTS/SPECIAL INSTRUCTIONS							RELINQUISHED BY		DATE		ACCEPTED BY		DATE/TIME	
							[Signature]		05/01/2018		[Signature]		5-2-13/0900	
COMPANY							Sundance Consulting Inc.			COMPANY		Security Seals Intact		
												Cooler Temps Acceptable		

Sundance Consulting Inc.																					
COC ID: FWDAMay022018		TURNAROUND TIME: 15 days				RUSH:															
PROJECT/CLIENT INFO						LABORATORY				OTHER INFO											
Facility Name Fort Wingate Depot Activity						Lab Name TestAmerica-Denver				Shipping Date 05/02/2018											
Project GW Monitoring						Lab Contact Michelle Johnston				Shipping Company FEDEX											
Sampling Company Sundance Consulting, Inc.						Email michelle.johnston@testamericainc.com				Possible Hazard ID Unknown											
Address 8210 Louisiana Blvd. NE, Suite C						Address 4955 Yarrow St.				Sample Disposal Active 60 days after invoice											
										Cooler Count 8											
City Albuquerque			State NM			City Arvada		State CO													
Postal Code 87113						Postal Code 80002															
Phone Number 505-835-7660						Phone Number 303-736-0100															
Project Manager Beth Davis																					
Phone Number 505-417-4553																					
SAMPLE IDENTIFIERS						ANALYSIS REQUESTED															
Sample ID	Date	Time (24hr)	G=Grab C=Comp	Matrix	Sample Type	Number of Containers	Explosives	ICE	HNO3	HNO3	ICE	ICE	ICE	ICE	SVOCs						
TMW45042018	5/2/2018	0905	G	WG	N	10	2	1	1	1	1	1	2	2							
TMW11042018	5/2/2018	0950	G	WG	N	6	2	1	1	1	1										
TMW48042018	5/2/2018	1215	G	WG	N	10	2	1	1	1	1	2	2								
TMW43042018	5/2/2018	0807	G	WG	N	10	2	1	1	1	1	2	2								
TMW43042018FD	5/2/2018	0807	G	FD	N	10	2	1	1	1	1	2	2								
TMW43042018MS	5/2/2018	0807	G	WQ	N	10	2	1	1	1	1	2	2								
TMW43042018MSD	5/2/2018	0807	G	WQ	N	10	2	1	1	1	1	2	2								
TMW04042018	5/2/2018	1114	G	WG	N	8	2	1	1	1	1		2								
TMW31D042018	5/2/2018	1243	G	WG	N	10	2	1	1	1	1	2	2								
TMW31D042018FD	5/2/2018	1243	G	FD	N	10	2	1	1	1	1	2	2								
ADDITIONAL COMMENTS/SPECIAL INSTRUCTIONS						PREPARED BY				DATE				ACCEPTED BY				DATE			
3.3 10.3 : 0.3 14.6 : 1.4 10.5 14.9 4.6°C ± 0.2 IR #8 Transferred 13B 5/3/18						Beth Davis				05/02/2018				13B = TARDEN 5/3/18 0900							
COMPANY						Sundance Consulting Inc.				COMPANY											
										Security Seals Intact											
										Cooler Temps Acceptable											

Sundance Consulting Inc.										
COC ID: FWDAMay022018_STL				TURNAROUND TIME: 15 days				RUSH:		
PROJECT/CLIENT INFO				LABORATORY				OTHER INFO		
Facility Name		Fort Wingate Depot Activity		Lab Name		TestAmerica-St. Louis		Shipping Date 05/02/2018		
Project		GW Monitoring		Lab Contact		Michelle Johnston		Shipping Company FEDEX		
Sampling Company		Sundance Consulting, Inc.		Email		michelle.johnston@testamericainc.com		Possible Hazard ID Unknown		
Address		8210 Louisiana Blvd. NE, Suite C		Address		13715 Rider Trail North		Sample Disposal Active 60 days after invoice		
City		Albuquerque		City		Earth City		Cooler Count 1		
Postal Code		87113		Postal Code		63045-1205				
Phone Number		505-835-7660		Phone Number		314-298-8566				
Project Manager		Beth Davis								
Phone Number		505-417-4553								
SAMPLE DETAILS							ANALYSIS REQUESTED			
Sample ID	Date	Time (24hr)	G=Grab C=Comp	Matrix	Sample Type	Number of Containers	Filtered - F: Field, L: Lab, FL: Field & Lab, N: None			
QC02052018TB	5/2/2018	0745	G	WQ	TB	2	HCL			
TMW45042018	5/2/2018	0905	G	WG	N	3				
TMW11042018	5/2/2018	0950	G	WG	N	3				
TMW48042018	5/2/2018	1215	G	WG	N	3				
TMW43042018	5/2/2018	0807	G	WG	N	3				
TMW43042018FD	5/2/2018	0807	G	WG	FD	3				
TMW43042018MS	5/2/2018	0807	G	WQ	MS	3				
TMW43042018MSD	5/2/2018	0807	G	WQ	MSD	3				
TMW04042018	5/2/2018	1114	G	WG	N	3				
TMW31D042018	5/2/2018	1243	G	WG	N	3				
 160-28164 Chain of Custody							VOCs			
ADDITIONAL COMMENTS/SPECIAL INSTRUCTIONS							RELINQUISHED BY			
							DATE		ACCEPTED BY	
							05/02/2018		5-2-18 0920	
COMPANY				Sundance Consulting Inc.			COMPANY			
							Security Seals Intact			
							Cooler Temps Acceptable			

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Sundance Consulting Inc.									
COC ID: FWDAMay032018_STL				TURNAROUND TIME: 15 days				RUSH:	
PROJECT/CLIENT INFO						LABORATORY		OTHER INFO	
Facility Name: Fort Wingate Depot Activity						Lab Name: TestAmerica-St. Louis		Shipping Date: 05/03/2018	
Project: Sundance Consulting, Inc.						Lab Contact: Michelle Johnston		Shipping Company: FEDEX	
Address: 8210 Louisiana Blvd. NE, Suite C						Email: michelle.johnston@testamericaine.com		Possible Hazard ID: Unknown	
City: Albuquerque State: NM						Address: 13715 Rider Trail North		Sample Disposal: Active 60 days after invoice	
Postal Code: 87113						City: Earth City State: MO		Cooler Count: 1	
Phone Number: 505-835-7660						Postal Code: 63045-1205			
Project Manager: Beth Davis						Phone Number: 314-298-8566			
Phone Number: 505-417-4553									
SAMPLE DETAILS							ANALYSIS REQUESTED		
Sample ID	Date	Time (24hr)	G=Grab C=Comp	Matrix	Sample Type	Number of Containers	Filtered - F: Field, L: Lab, FL: Field & Lab, N: None		
QC03052018TB	5/3/2018	0757	G	WQ	TB	2	HCL		
TMW14A042018	5/3/2018	0925	G	WG	N	3	VOCs		
TMW15042018	5/3/2018	1315	G	WG	N	3			
TMW15042018FD	5/3/2018	1315	G	WQ	FD	3			
TMW17042018	5/3/2018	0913	G	WG	N	3			
TMW39D042018	5/3/2018	1227	G	WG	N	3			
TMW47042018	5/3/2018	0900	G	WG	N	3			
ADDITIONAL COMMENTS/SPECIAL INSTRUCTIONS							RELINQUISHED BY		DATE
							Beth Davis		05/03/2018
							ACCEPTED BY		DATE/TIME
							5/18/2018		
COMPANY							Sundance Consulting Inc.		
COMPANY							Security Seals Intact		
COMPANY							Cooler Temps Acceptable		

COC ID:		WELL340May032018		TURNAROUND TIME: 15 days		RUSH:													
FACILITY INFORMATION				LABORATORY		SHIPPER INFO													
Facility Name	Fort Wingate Depot Activity			Lab Name	TestAmerica-Denver		Shipping Date	05/03/2018											
Project	Well 340 GW Monitoring			Lab Contact	Michelle Johnston		Shipping Company	FEDEX											
Sampling Company	Sundance Consulting, Inc.			Email	michelle.johnston@testamericainc.com		Possible Hazard ID	Unknown											
Address	8210 Louisiana Blvd. NE, Suite C			Address	4955 Yarrow St.		Sample Disposal	Active 60 days after invoice											
							Cooler Count	1											
City	Albuquerque	State	NM	City	Arvada	State	CO												
Postal Code	87113			Postal Code	80002														
Phone Number	505-835-7660			Phone Number	303-736-0100														
Project Manager	Beth Davis																		
Phone Number	505-417-4553																		
SAMPLE DETAILS				ANALYSTS REQUESTED															
Sample ID	Date	Time (24hr)	G=Grab C=Comp	Matrix	Sample Type	Number of Containers	Explosives	Nitrate/Nitrites	Perchlorate										
WELL340042018	5/3/2018	1400 1415	G	WG	N	4	2	1	1										
WELL340042018FD	5/3/2018	1400 1415	G	WQ	FD	4	2	1	1										
							 280-109349 Chain of Custody												
ADDITIONAL COMMENTS/SPECIAL INSTRUCTIONS				PREPARED BY		DATE	ACCEPTED BY		DATE/TIME										
O.S. ITH 8 O.O Transfer				Beth Davis		05/03/2018	Michelle Johnston		TH-Den		5-4-18		0915						
5-4-18																			
COMPANY				Sundance Consulting Inc.				COMPANY											
								Security Seals Intact											
								Cooler Temps Acceptable											

COC ID: WELL340May032018_STL		TURNAROUND TIME: 15 days		RUSH:						
PROJECT/CLIENT INFO				LABORATORY		OTHER INFO				
Facility Name	Fort Wingate Depot Activity			Lab Name	TestAmerica-St. Louis		Shipping Date	05/03/2018		
Project	Well 340 GW Monitoring			Lab Contact	Michelle Johnston		Shipping Company	FEDEX		
Sampling Company	Sundance Consulting, Inc.			Email	michelle.johnston@testamericainc.com		Possible Hazard ID	Unknown		
Address	8210 Louisiana Blvd. NE, Suite C			Address	13715 Rider Trail North		Sample Disposal	Active 60 days after invoice		
City	Albuquerque	State	NM	City	Earth City	State	MO	Cooler Count	1	
Postal Code	87113			Postal Code	63045-1205					
Phone Number	505-835-7660			Phone Number	314-298-8566					
Project Manager	Beth Davis									
Phone Number	505-417-4553									
SAMPLE DETAILS				ANALYSIS REQUESTED						
Sample ID	Date	Time (24hr)	G=Grab C=Comp	Matrix	Sample Type	Number of Containers	Filter: F: Field, L: Lab, FL: Field & Lab, N: None			
WELL340042018	/	5/3/2018	1400 1415	G	WG	N	3	HCL		
WELL340042018FD	/	5/3/2018	1400 1415	G	WG	FD	3	VOCs		
WELL340052018TB	/	5/3/2018	0927	G	WQ	TB	2	 160-28186 Chain of Custody		
ADDITIONAL COMMENTS/SPECIAL INSTRUCTIONS				RELINQUISHED BY		DATE	ACCEPTED BY		DATE/TIME	
				Beth Davis		05/03/2018	Re Johnston		5-4-18/0900	
				COMPANY		Sundance Consulting Inc.		COMPANY		
								Security Seals Intact		
								Cooler Temps Acceptable		

COC ID:		FWDAMay042018		TURNAROUND TIME:		15 days		RUSH:												
PROJECT/CLIENT INFO				LABORATORY				OTHER INFO												
Facility Name	Fort Wingate Depot Activity			Lab Name	TestAmerica-Denver			Shipping Date	05/04/2018											
Project	GW Monitoring			Lab Contact	Michelle Johnston			Shipping Company	FEDEX											
Sampling Company	Sundance Consulting, Inc.			Email	michelle.johnston@testamericainc.com			Possible Hazard ID	Unknown											
Address	8210 Louisiana Blvd. NE, Suite C			Address	4955 Yarrow St.			Sample Disposal	Active 60 days after invoice											
								Cooler Count	2											
City	Albuquerque	State	NM	City	Arvada	State	CO													
Postal Code	87113			Postal Code	80002															
Phone Number	505-835-7660			Phone Number	303-736-0100															
Project Manager	Beth Davis																			
Phone Number	505-417-4553																			
SAMPLE DETAILS							ANALYSIS REQUESTED													
Sample ID	Date	Time (24hr)	G=Grab C=Comp	Matrix	Sample Type	Number of Containers	Explosives	Metals-Dissolved	Metals-Total	Nitrate/Nitrites	Perchlorate	Pesticides	SVOCs							
TMW01042018	5/4/2018	0830	G	WG	N	6	2	1	1	1	1									
TMW49042018	5/4/2018	0915	G	WG	N	10	2	1	1	1	2	2								
ADDITIONAL COMMENTS/SPECIAL INSTRUCTIONS							RELINQUISHED BY		DATE		ACCEPTED BY		DATE/TIME							
0.411.6°C=0.0 IR #8 Transfer BB 5/5/18							Beth Davis		05/04/2018		[Signature] TA-DCN		5/5/18 0845							
COMPANY							Sundance Consulting Inc.							COMPANY						
														Security Seals Intact						
														Cooler Temps Acceptable						

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Appendix D
Attachment 2
TestAmerica Laboratory Data Output
(Provided on DVD)

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Appendix D

Attachment 3

**Data Validation Reports and Automated Data Review Reference Output Files
by Sample Delivery Group
(Provided on DVD)**

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Appendix E
Historical Groundwater Analytical Data
(Provided on DVD)

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