

APPENDIX C

Laboratory Analytical Data Quality Evaluation

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1 Acronyms and Abbreviations

2	ADR	Automated Data Review
3	COC	chain of custody
4	DL	detection limit
5	DOD	U.S. Department of Defense
6	DRO	diesel range organics
7	EB	equipment blank
8	ELAP	Environmental Laboratory Accreditation Program
9	EPA	U.S. Environmental Protection Agency
10	FD	field duplicate
11	GRO	gasoline range organics
12	J	analyte detected but less than the limit of quantitation
13	LCS	laboratory control sample
14	LOD	limit of detection
15	LOQ	limit of quantitation
16	MS	matrix spike
17	MSD	matrix spike duplicate
18	PARCC	precision, accuracy, representativeness, comparability, and completeness
19	QA	quality assurance
20	QC	quality control
21	R	analyte has been rejected and is unusable for project objectives
22	RPD	relative percent difference
23	SDG	sample delivery group
24	SVOC	semivolatile organic compound
25	TA	TestAmerica Laboratories, Inc.
26	TB	trip blank
27	TPH	total petroleum hydrocarbons
28	U	non-detected result at the limit of detection
29	UJ	estimated non-detected result at the limit of detection
30	VOC	volatile organic compound

1 Data Quality Evaluation Report

2 This appendix contains the Data Quality Evaluation Report for groundwater samples collected as part of
3 the Periodic Groundwater Monitoring Program at Fort Wingate Depot Activity, New Mexico. This report
4 evaluates whether the analytical data obtained in the investigation are of sufficient quality and quantity
5 to accomplish the project objectives.

6 Introduction

7 The analytical work was conducted in accordance with the approved final *2015 Interim Measures*
8 *Facility-Wide Groundwater Monitoring Plan, Version 8, Fort Wingate Depot Activity, McKinley County,*
9 *New Mexico* (Innovar Environmental, Inc., 2015).

10 TestAmerica Laboratories, Inc. (TA) in Arvada, Colorado, performed all analyses. After collection,
11 samples were packed and shipped by overnight carrier to TA for analysis. The following analytical
12 methods were used for sample analysis:

- 13 ○ Total petroleum hydrocarbons, diesel range organics (TPH-DRO) by U.S. Environmental
14 Protection Agency (EPA) Method SW8015C
- 15 ○ Total petroleum hydrocarbons, gasoline range organics (TPH-GRO) by EPA Method SW8015C
- 16 ○ Volatile organic compounds (VOCs) by EPA Method SW8260B
- 17 ○ Ethylene dibromide by EPA Method SW8011
- 18 ○ Semivolatile organic compounds (SVOCs) by EPA Method SW8270D
- 19 ○ Organochlorine pesticides by EPA Method SW8081A
- 20 ○ Explosives by EPA Method SW8330B
- 21 ○ Total and dissolved metals by EPA Methods SW6010C and SW6020A
- 22 ○ Mercury by EPA Method SW7470A
- 23 ○ Perchlorate by EPA Method SW6860
- 24 ○ Nitrate and nitrite by EPA Method 9056

25 Ten sample delivery groups (SDGs) were evaluated for data quality. SDGs may have been delivered with
26 a Part 1, a Part 2, and in some cases a Part 3 file. The Part 2 file contains data for caprolactam and was
27 delivered separately by the laboratory because TA lacks U.S. Department of Defense (DOD)
28 Environmental Laboratory Accreditation Program (ELAP) certification and did not want it included in a
29 report of other compounds with applicable DOD ELAP certification. The Part 3 data are for Method
30 SW8011 ethylene dibromide results because the method was added after the start of the project
31 collection. The Part 1 file contains all other data. Table 1 lists the sample identifiers, collection dates,
32 and analyses associated with the project samples. (All tables are presented at the end of this report.)

33 Field Sample Collection

34 The fieldwork for this monitoring event was conducted from October 26, 2015, through December 1,
35 2015. The following data quality sample quantities/types were collected and analyzed: 62 groundwater
36 samples, seven field duplicate (FD) samples, and four planned matrix spike/matrix spike duplicates

1 (MS/MSDs) with additional MS/MSDs included as part of the laboratory-selected quality
2 assurance/quality control (QA/QC) process.

3 Other QC samples including 15 trip blanks (TBs) and two equipment blanks (EBs) were collected and
4 analyzed in accordance with the Work Plan. No QA sample splits were collected during this event.

5 **Data Review and Validation Process**

6 **Data Validation Definition**

7 All analytical data from the fall 2015 sample collection were evaluated in accordance with the
8 procedures described in the Work Plan. One hundred percent of the analytical results were validated
9 using the Automated Data Review (ADR) software. The data assessment included a review of the
10 following laboratory information based on the electronic data received from the laboratory in ADR file
11 format containing only files A1 and A3:

- 12 ○ Holding time
- 13 ○ Shipping cooler temperatures
- 14 ○ QC sample frequencies
- 15 ○ Method and field blanks
- 16 ○ Laboratory control samples (LCSs)
- 17 ○ Surrogate spikes
- 18 ○ MS/MSDs
- 19 ○ FD precision
- 20 ○ Case narrative review and flagging based on discussions provided

21 In addition, as defined in the Work Plan, 10 percent of the sample results required additional, more
22 detailed data validation as a Stage 3 data review, which included the following:

- 23 ○ All aspects of the review using the ADR software
- 24 ○ Calibration review including initial calibration, second source checks, continuing calibration, and
25 calibration blanks
- 26 ○ Internal standards review
- 27 ○ Instrument tune review
- 28 ○ Confirmation data, where applicable
- 29 ○ Post spikes and serial dilutions
- 30 ○ Limited recalculation check of results from raw data and transcription check

31 The Stage 3 data review was completed for SDG J76216. This SDG consists of 10 groundwater samples,
32 two TBs, one FD sample, and two MS/MSD samples (one planned and one laboratory batch selected).
33 The samples were analyzed using the analytical methods identified in Table 1. The field sample numbers
34 and corresponding laboratory numbers are presented in Table 2.

35 Data flags for both the ADR software and the additional Stage 3 data review were assigned using the QC
36 acceptance limits and procedures defined in the Work Plan. Data flags and the reason for each flag were
37 entered into an electronic database and are available to data users. Although multiple flags were

1 routinely applied to a specific sample method/matrix/analyte combination, only one final flag was
2 applied to the data according to the most conservative of the validation flags.

3 **Overall Data Validation Findings**

4 An overall summary of qualified sample results and the reason each result was flagged are presented in
5 Table 3.

6 Attachment 1 of this appendix contains multiple files for each of the 10 SDGs and presents the output
7 files from the ADR software. The file types vary for each SDG based on what type of out of control
8 details were noted in each SDG. The file types define all samples within the SDG, the methods reviewed,
9 the specifics of the data qualifiers applied, and how each sample was flagged. The electronic (PDF files)
10 TA laboratory data are included as Attachment 2 of this appendix.

11 Only out of control conditions noted during the data validation are presented in Table 3. The sections
12 below provide overviews of the data validation findings from the ADR software. Specific issues identified
13 during the Stage 3 data review are also described.

14 **Results Detected Between the Limit of Quantitation**

15 Analytes that were detected at concentrations greater than the detection limit (DL), but less than the
16 limit of quantitation (LOQ), were qualified as “J” to reflect the uncertainty associated with
17 concentrations of analytical data between the DL and the LOQ. Non-detected sample results were
18 reported to the limit of detection (LOD).

19 **Holding Time**

20 One sample for SVOCs was reanalyzed out of hold time to confirm surrogate spike recoveries. The
21 results reanalysis showed similar out of control surrogate recoveries that were not significantly out of
22 control. Because only one surrogate was out of control, no data flags for surrogate were required. The
23 samples was flagged “J” or “UJ” due to the holding time failure.

24 In addition, one nitrate result was qualified as an estimated concentration and flagged “J” or “UJ” for
25 exceeding the holding time by less than twice the allowable limit. The sample required reanalysis over
26 the holding time due to dilution.

27 In one VOC and GRO sample, MW18D102015, the sample was listed as preserved in accordance with the
28 method upon laboratory receipt; however, the actual pH was found to be greater than 2. The sample
29 was analyzed more than 7 days but within the 14 days as required by the method for a preserved
30 sample. All data for this sample VOC and GRO were flagged “J” or “UJ” and are considered to be
31 estimated concentrations.

32 No additional holding time exceedances were noted in the Stage 3 data review. All holding time
33 exceedances were flagged as estimated concentrations and are usable for project objectives. Holding
34 time-related issues are presented in Table 3 and Attachment 1.

35 **Shipping Temperatures, Preservation, and Sample Custody**

36 No sample shipping temperature control issues were noted in the validation based on a review of
37 sample chains of custody (COCs) and the documentation of sample-received conditions. All samples
38 were delivered with a completed sample COC.

39 Sample preservation issues are discussed above in the Holding Time section.

- 1 A sample bottle for perchlorate analysis was received for TMW36102015 with less than the suggested
2 one-third headspace in the sample bottle. The issues was noted, and the laboratory was requested to
3 complete the analysis. No data flags were applied.
- 4 Some VOC sample vials for TMW37102015 were noted to contain bubbles larger than 6 millimeters in
5 diameter. Sufficient vials without bubbles were available to complete the sample analysis.
- 6 The original COC for TMW24102105 requested SVOC analysis, which was canceled, and organochlorine
7 pesticides were added. This change was completed prior to the start of any extractions for the sample.
- 8 Sample vials for analysis of ethylene dibromide on sample MW22S102015 were received at the
9 laboratory but not listed on the COC. Sample analysis was completed based on client request. On the
10 same COC, ethylene dibromide was requested for sample TMW22102015, but no vials were received.
11 The analysis request was canceled.
- 12 One shipping cooler was noted to have had the custody seals stripped off of it, but the samples were
13 observed to have been uncompromised. Another cooler was noted to have had the custody seals on the
14 hinged side of the cooler; however, samples seemed to be uncompromised. No action was taken.
- 15 Discrepancies between the sample time of collection on the bottle label and the COC were identified for
16 a number of samples. In each case, the correct time was resolved with the field team and laboratory
17 staff.
- 18 In a number of cases, broken bottles or bottles that were not completely full due to well recharge issues
19 were received at the laboratory; however, in all cases, enough of the sample remained to complete the
20 work as requested. No action was taken.
- 21 No sample results were flagged due to COC or sample preservation issues.

22 **Sample Case Narratives**

- 23 A number of inconsistencies were noted between the case narratives, the ADR data files, and the hard
24 copy data files. In some cases, a method blank may have been listed as having a detection that did not
25 show to be detected in the data. In one case, internal standards for SVOCs were listed as out of control
26 but were not out of control in the data. Another case had a listed perchlorate relative percent difference
27 (RPD) listed as significantly out of control when the actual was within control. All initial case narratives
28 listed the SVOC data as being from Method SW8270C when the method version used was SW8270D. In
29 all cases where the narratives were noted with inconsistencies, the narratives were corrected and
30 resubmitted by the laboratory.

31 **Sample Quality Control Frequencies**

- 32 Frequency of analysis for required method QC samples completed by the laboratory is part of the review
33 using the ADR software. The ADR software detected no issues. Also, no sample QC frequency issues
34 were noted in the additional Stage 3 data review.

35 **Blank Contamination**

- 36 The laboratory and field blanks were generally free of contamination at concentrations greater than one
37 half of the LOQ. The analytes detected in blanks were generally consistent with normal laboratory and
38 field operations and do not negatively affect the use of the data for project objectives. Qualified sample
39 results from method blank contamination were predominantly associated with the metals cobalt,
40 manganese, nickel, silver, and thallium. However, sample results were also qualified for one SVOC, one
41 VOC, and nitrate. Twenty-two results were qualified in 19 samples.

1 The 43 qualified sample results from EB contamination were predominantly related to metals; however,
2 two VOC, two SVOC, and two DRO results were also qualified. From all the combined EB contamination,
3 14 samples were qualified for EB contamination.

4 There were no results qualified due to TB contamination.

5 Samples affected by blank contamination were qualified as non-detected results and flagged "U." Blank
6 contamination-related issues are presented in Table 3 and Attachment 1.

7 The Stage 3 data review identified minor additional calibration blank contamination issues resulting in
8 six qualified metals in four samples.

9 **Laboratory Control Samples**

10 Overall, the LCSs were within control. The qualified LCS data are limited to three total mercury results
11 and 28 benzidine results. If an LCS was out of control with a high bias, and the associated sample result
12 did not detect that compound, the results were not flagged. All of the samples qualified for LCS
13 recoveries were flagged as estimated non-detected concentrations and flagged "UJ" or estimated
14 detected concentration "J." Benzidine is considered to be a poor responding compound.

15 The LCS RPD was within control except for a limited number of results for dichlorodifluoromethane,
16 which have been flagged "UJ."

17 The Stage 3 data identified no LCS errors not already detected by the ADR software. LCS-related issues
18 are presented in Table 3 and Attachment 1.

19 **Surrogate Spikes**

20 Overall, surrogate spikes were within control. The qualified samples/target data due to out of control
21 surrogate spikes are associated with four pesticide samples and six explosives samples. In a small
22 number of samples, the surrogate spike showed a high bias or was diluted out. Diluted samples were
23 not qualified, and high-bias surrogate recoveries associated with non-detected results were also not
24 qualified. There were a number of SVOC samples where only the terphenyl-d14 was out of control;
25 therefore, no samples data were qualified for those samples. All samples qualified for surrogate spike
26 recoveries were flagged "J" or "UJ" as estimated concentrations and are usable for project objectives,
27 with the exception of nine explosives compounds in one sample, which were rejected. Rejected results
28 are not usable for project objectives.

29 The Stage 3 data review identified no surrogate out of control conditions not already detected by the
30 ADR software. Surrogate spike-related issues are presented in Table 3 and Attachment 1.

31 **Matrix Spike and Matrix Spike Duplicates**

32 Overall, the MS/MSDs were within control for both accuracy and precision. The qualified sample results
33 due to out of control MS/MSDs included 320 results in all, predominantly associated with the metals,
34 SVOC compounds, perchlorate, explosives, and pesticides. In cases where the concentrations of the
35 parent samples were significantly greater than the spike concentrations, the recovery was not accurate
36 and the results were not qualified. Samples were not qualified when they contained concentrations of
37 target analytes greater than four times the spiked concentration added to the MS/MSD. Most of the
38 qualified sample results are flagged as estimated concentrations, flagged "J" or "UJ," and are usable for
39 project objectives. Rejected results include benzidine, 3,3-dichlorobenzidine, and 1,3,5-trinitrobenzene,
40 28 results in all.

41 Out of control MS/MSD RPD was limited to and associated with the SVOCs, metals, perchlorate, and
42 explosives. The results were flagged as estimated concentrations flagged "J" or "UJ."

1 Post-digestion spikes, serial dilutions, and interference check samples were evaluated from the case
2 narrative notations as well as the Stage 3 data review. A review of the case narratives required the
3 flagging of one sodium result for a post-digestion spike that was out of control and noted under the
4 professional judgment flags.

5 The Stage 3 data review identified no MS/MSD out of control conditions, serial dilution, or post-
6 digestion out of control conditions not previously detected by the ADR software. The MS/MSD-related
7 issues are presented in Table 3 and Attachment 1.

8 **Field Duplicate and Laboratory Precision**

9 Overall, FD precision was acceptable; however, a number of results required qualification because of out
10 of control precision criteria. The out of control FD precision was associated with 80 results for metals,
11 VOCs, SVOCs, and nitrate results in six sample pairs. Laboratory duplicates were within control.

12 Out of control detected results from FDs were qualified as estimated concentrations. Out of control
13 precision requirements in samples are believed to be caused by sample heterogeneity or matrix
14 interference in the analytical process.

15 The Stage 3 data review identified no FD or laboratory duplicate out of control conditions not previously
16 detected by the ADR software. Duplicate-related issues are presented in Table 3 and Attachment 1.

17 **Calibration**

18 Initial, continuing, and second-source calibrations were reviewed as part of the Stage 3 data review on
19 all methods and were noted to be within control. No calibration flags were applied as part of the ADR
20 case narrative review. Dichlorofluoromethane was noted as bias high out of control at 287 percent in
21 one VOC continuing calibration; however, the associated data were non-detected results, and no flags
22 were applied.

23 **Internal Standards**

24 Internal standards were evaluated as part of the case narrative review for ADR and also as part of the
25 Stage 3 data review. All internal standards were found to be within control.

26 **Confirmation**

27 When the case narrative defined the RPD for confirmation results from explosives or pesticides above
28 40 percent, the associated compound was flagged as an estimated result in the ADR software. Detected
29 results were flagged "J" as estimated concentrations. Confirmation-related data flags are noted in the
30 "Professional Judgment" column in Table 3 and clarified in the manual changes file in Attachment 1.

31 The Stage 3 data review identified no confirmation out of control conditions not previously detected by
32 the ADR software. Confirmation-related issues are presented in Table 3 and Attachment 1.

33 **Professional Judgment**

34 The professional judgment field of the ADR software and Table 3 was used to note confirmation
35 precision data flags, as stated in the Confirmation section. It was also used to flag samples where the
36 analytical response for TPH-GRO in samples MW18D102015 and TMW33102015 because the responses
37 were based on the presence of discrete peaks. The samples were flagged as an estimated
38 concentrations flagged "J."

39 The Stage 3 data review identified no conditions not previously detected by the ADR software.
40 Professional judgment-related issues are presented in Table 3 and Attachment 1.

1 **Calculation Verification**

2 A limited recalculation check of results from the raw data was completed for all methods as part of the
3 Stage 3 data review. No errors were identified.

4 **Summary of Precision, Accuracy, Representativeness, 5 Comparability, and Completeness**

6 The quality of the field sampling efforts and laboratory results were evaluated for compliance with
7 project data quality objectives through a review of overall precision, accuracy, representativeness,
8 comparability, and completeness (PARCC). Procedures used to assess PARCC are in accordance with the
9 respective analytical methods and the Work Plan requirements.

10 **Precision**

11 Overall, matrix precision from MS/MSDs was within control. Matrix precision was also evaluated
12 through the results of FDs and laboratory duplicates. Laboratory duplicates were within control.
13 Although there were some out of control results from each FD pair collected, overall, few results were
14 out of control, and the results of the FDs indicate that the field team adequately collected
15 representative samples and that the laboratory was capable of evaluating the matrix consistently.

16 Laboratory precision is acceptable as shown by the repeated within control performance (accuracy) of
17 the LCSs.

18 All results qualified from out of control precision were qualified as estimated concentrations. The
19 methods and matrix precision are acceptable.

20 **Accuracy**

21 Overall, matrix accuracy from the MS/MSDs and surrogate spikes was acceptable. The accuracy of LCSs
22 was predominantly within control. A significant number of benzidine results may have a low bias based
23 on the out of control LCS recoveries. In some cases, the benzidine may have been rejected due to no or
24 very poor recovery of the MS/MSD. Some rejected results due to MS/MSD recoveries are also noted for
25 3,3-dichlorobenzidine and 1,3,5-trinitrobenzene. A very limited number of explosives were rejected due
26 to surrogate recovery. Calibrations were within control; therefore, the laboratory and matrix-related
27 accuracy is acceptable.

28 The results qualified from out of control accuracy are considered estimated concentrations.

29 **Representativeness**

30 The sample data were representative of the site conditions at the time of sample collection. All samples
31 were properly stored and preserved. Holding time error was not significant, and the estimated sample
32 results are usable for project objectives. The results of field and laboratory blanks were generally at
33 concentrations less than one half of the LOQs. Overall, blank contamination was indicative of normal
34 laboratory and field sampling operations.

35 **Comparability**

36 All samples were reported in industry standard units. Analytical protocols for the methods were
37 followed. Results obtained are comparable to industry standards in that collection and analytical
38 techniques followed approved and documented procedures.

1 **Completeness**

2 Overall, the completeness objective of 95 percent for water samples was met. The exceptions were
3 38 rejected results overall. A majority of the unusable data is the result of LCS and/or MS/MSD failure
4 for poor responding compounds as discussed in the LCS and MS/MSD sections. One explosives sample
5 had limited compounds rejected due to surrogate recovery failures. Individually, the rejected
6 compounds may not meet the 95 percent completeness goal. However, given the long-term collection
7 plan for the project and the large amount of historical data available, the unusable data are not
8 expected to present a data gap.

9 **Conclusions**

10 The data generated from groundwater sample analyses are of sufficient quality and quantity to
11 accomplish the project objectives. The sample results accurately indicate the presence and/or absence
12 of target analyte contamination at the sampled locations. All samples were collected and analyzed as
13 specified in the Work Plan.

14 The sample results are believed to be representative of the site conditions at the time of collection.
15 Results obtained are comparable to industry standards, in that collection and analytical techniques
16 followed approved and documented procedures. All results were reported in industry standard units.
17 Although blank contamination occurred, the concentrations were generally below one half of the LOQ
18 and representative of normal laboratory procedures. In cases of elevated LOQs, LODs, and/or DLs due to
19 matrix interference and/or high target analyte concentrations, the results obtained for the associated
20 samples/analyses reflect the best achievable data for the site-specific conditions.

21 **References**

22 Innovar Environmental, Inc., 2015. *2015 Interim Measures Facility-Wide Groundwater Monitoring Plan,*
23 *Version 8, Fort Wingate Depot Activity, McKinley County, New Mexico.* Final. Prepared for the
24 U.S. Army Corps of Engineers, Albuquerque District. March 6.

Table 1**Sample Chronology, Data Summary***Groundwater Periodic Monitoring Report, Fall 2015 Sample Collections, Fort Wingate Depot Activity*

Sample Name	Date Collected	Sample Type	6010C	6020A	6860	7470A	8011	8015C DRO	8015C GRO	8081A	8260B	8270D	8330B	9056
TMW02102015	03-Nov-15		X	X	X	X					X		X	X
TMW03102015	04-Nov-15		X	X	X	X					X	X	X	X
TMW04102015	04-Nov-15		X	X	X	X					X	X	X	X
TMW06102015	04-Nov-15		X	X		X					X	X	X	X
TMW07102015	30-Oct-15		X	X		X					X	X	X	X
TMW08102015	05-Nov-15		X	X	X	X		X	X	X	X			X
TMW10102015	04-Nov-15		X	X	X	X					X		X	X
TMW11102015	04-Nov-15		X	X	X	X					X		X	X
TMW13102015	04-Nov-15		X	X	X	X					X			X
TMW13102015MS	04-Nov-15	MS		X		X								
TMW13102015MSD	04-Nov-15	MSD		X		X								
TMW14A102015	03-Nov-15		X	X		X					X	X	X	X
TMW15102015	06-Nov-15		X	X	X	X					X	X	X	X
DTW15102015	06-Nov-15	FD	X	X	X	X					X	X	X	X
TMW16102015	28-Oct-15		X	X	X	X					X	X	X	
TMW16102015MS	28-Oct-15	MS		X		X								
TMW16102015MSD	28-Oct-15	MSD		X		X								
TMW17102015	03-Nov-15		X	X	X	X					X			X
TMW18102015	29-Oct-15		X	X	X	X					X	X	X	X
TMW19102015	28-Oct-15		X	X	X	X					X	X	X	
TMW19102015MS	28-Oct-15	MS	X											
TMW19102015MSD	28-Oct-15	MSD	X											
TMW21102015	29-Oct-15		X	X	X	X					X		X	X
TMW22102015	29-Oct-15		X	X	X	X					X	X	X	
TMW22102015	30-Oct-15													X
TMW23102015	30-Oct-15		X	X	X	X				X	X		X	X
TMW24102015	06-Nov-15		X	X	X	X				X	X		X	X
TMW25102015	04-Nov-15		X	X		X					X		X	X
TMW26102015	30-Oct-15		X	X	X	X					X		X	X
DTW26102015	30-Oct-15	FD	X	X	X	X					X		X	X
TMW26102015MS	30-Oct-15	MS	X	X	X	X					X		X	X
TMW26102015MSD	30-Oct-15	MSD	X	X	X	X					X		X	X
TMW27102015	30-Oct-15		X	X	X	X					X			
TMW28102015	03-Nov-15		X	X		X					X			

Table 1**Sample Chronology, Data Summary***Groundwater Periodic Monitoring Report, Fall 2015 Sample Collections, Fort Wingate Depot Activity*

Sample Name	Date Collected	Sample Type	6010C	6020A	6860	7470A	8011	8015C DRO	8015C GRO	8081A	8260B	8270D	8330B	9056
TMW28102015	01-Dec-15													X
TMW29102015	28-Oct-15		X	X	X	X					X		X	X
TMW29102015MS	28-Oct-15	MS			X									
TMW29102015MSD	28-Oct-15	MSD			X									
TMW30102015	29-Oct-15		X	X	X	X				X	X	X	X	X
TMW31D102015	05-Nov-15		X	X	X	X				X	X	X	X	X
TMW31D102015MS	05-Nov-15	MS												X
TMW31D102015MSD	05-Nov-15	MSD												X
DTW31D102015	05-Nov-15	FD	X	X	X	X				X	X	X	X	X
TMW31S102015	29-Oct-15		X	X	X	X				X	X	X	X	X
TMW32102015	05-Nov-15		X	X	X	X				X	X	X	X	X
TMW33102015	30-Oct-15		X	X		X	X	X	X		X	X		X
TMW34102015	03-Nov-15		X	X	X	X	X	X	X		X			X
DTW34102015	03-Nov-15	FD	X	X	X	X	X	X	X		X			X
TMW35102015	02-Nov-15		X	X	X	X	X	X	X	X	X	X		X
TMW36102015	28-Oct-15		X	X	X	X				X	X	X	X	X
TMW37102015	28-Oct-15		X	X	X	X				X	X	X	X	X
TMW37102015MS	28-Oct-15	MS												X
TMW37102015MSD	28-Oct-15	MSD												X
TMW38102015	06-Nov-15		X	X	X	X				X	X	X	X	X
TMW39D102015	04-Nov-15		X	X	X	X				X	X	X	X	X
TMW39S102015	29-Oct-15		X	X	X	X				X	X	X	X	X
TMW40D102015	03-Nov-15		X	X	X	X				X	X	X	X	X
TMW40S102015	28-Oct-15		X	X		X					X			X
TMW40S102015	29-Oct-15											X	X	
TMW40S102015	30-Oct-15				X					X				
TMW41102015	29-Oct-15		X	X	X	X				X	X	X	X	X
TMW43102015	03-Nov-15		X	X	X	X				X	X	X	X	X
DTW43102015	03-Nov-15	FD	X	X	X	X				X	X	X	X	X
TMW43102015MS	03-Nov-15	MS	X	X	X	X				X	X	X	X	X
TMW43102015MSD	03-Nov-15	MSD	X	X	X	X				X	X	X	X	X
TMW44102015	29-Oct-15		X	X	X	X				X	X	X	X	X
TMW45102015	03-Nov-15		X	X	X	X				X	X	X	X	X
TMW46102015	29-Oct-15		X	X	X	X				X	X	X	X	X

Table 1**Sample Chronology, Data Summary***Groundwater Periodic Monitoring Report, Fall 2015 Sample Collections, Fort Wingate Depot Activity*

Sample Name	Date Collected	Sample Type	6010C	6020A	6860	7470A	8011	8015C DRO	8015C GRO	8081A	8260B	8270D	8330B	9056
TMW47102015	05-Nov-15		X	X	X	X				X	X	X	X	X
TMW48102015	04-Nov-15		X	X	X	X				X	X	X	X	X
TMW49102015	05-Nov-15		X	X	X	X				X	X	X	X	X
TMW49102015MS	05-Nov-15	MS		X		X								
TMW49102015MSD	05-Nov-15	MSD		X		X								

Notes:

DRO = diesel range organics

FD = field duplicate

GRO = gasoline range organics

MS = matrix spike

MSD = matrix spike duplicate

Table 2**Laboratory and Field Sample Identifiers for Stage 3 Data Review***Groundwater Periodic Monitoring Report, Fall 2015 Sample Collections, Fort Wingate Depot Activity*

Field Sample ID	Laboratory Sample ID
BGMW03102015	280-76216-12
BGMW03102015MS	280-76216-12MS
BGMW03102015MSD	280-76216-12MSD
MW03102015	280-76216-3
MW22S102015	280-76216-7
TB-06-102015	280-76216-1
TB-07-102015	280-76216-2
TMW07102015	280-76216-13
TMW22102015	280-76216-9
TMW23102015	280-76216-10
TMW26102015	280-76216-4
DTW26102015	280-76216-5 (duplicate of TW26)
TMW26102015MS	280-76216-4MS
TMW26102015MSD	280-76216-4MSD
TMW27102015	280-76216-6
TMW33102015	280-76216-11
TMW40S102015	280-76216-8

Notes:

ID = identification

MS = matrix spike

MSD = matrix spike duplicate

Table 3

Summary of Data Qualifications by Reason

Groundwater Periodic Monitoring Report, Fall 2015 Sample Collections, Fort Wingate Depot Activity

Sample ID	Method	AnalyteName	Lab Sample ID	Analysis Type	Holding Time	Method Blanks	Calibration Blank	Surrogate Recovery	MS/MSD Recovery	MS/MSD RPD	LCS Recovery	LCS RPD	Equipment Blank	Field Duplicate	Professional Judgement
DMW20102015	6010C	IRON	280-76268-10	Dissolved										UJ	
DMW20102015	6010C	POTASSIUM	280-76268-10	Total					J				U		
DMW20102015	6020A	ARSENIC	280-76268-10	Dissolved											
DMW20102015	6020A	BERYLLIUM	280-76268-10	Dissolved											
DMW20102015	6020A	BERYLLIUM	280-76268-10	Total										J	
DMW20102015	6020A	CHROMIUM	280-76268-10	Total										J	
DMW20102015	6020A	NICKEL	280-76268-10	Dissolved									U		
DMW20102015	6020A	SILVER	280-76268-10	Total									U	J	
DMW20102015	6020A	THALLIUM	280-76268-10	Dissolved									U		
DMW20102015	6020A	THALLIUM	280-76268-10	Total									U	J	
DMW20102015	6020A	VANADIUM	280-76268-10	Dissolved											
DMW20102015	6020A	ZINC	280-76268-10	Dissolved					J						
DMW20102015	8270D	1,2-DIPHENYLHYDRAZINE	280-76268-10											J	
DMW20102015	8270D	2,4-DIMETHYLPHENOL	280-76268-10						UJ						
DMW20102015	8270D	2-NITROANILINE	280-76268-10						UJ						
DMW20102015	8270D	3,3'-DICHLOROBENZIDINE	280-76268-10						UJ						
DMW20102015	8270D	3-NITROANILINE	280-76268-10						UJ	UJ					
DMW20102015	8270D	4-CHLOROANILINE	280-76268-10						UJ	UJ					
DMW20102015	8270D	4-NITROANILINE	280-76268-10						UJ						
DMW20102015	8270D	ACETOPHENONE	280-76268-10										U	J	
DMW20102015	8270D	BENZIDINE	280-76268-10						R						
DMW20102015	8270D	BENZYL ALCOHOL	280-76268-10			U							U	J	
DMW20102015	8270D	BIS(2-ETHYLHEXYL) PHTHALATE	280-76268-10											J	
DMW20102015	8270D	DIMETHYL PHTHALATE	280-76268-10											J	
DMW20102015	8270D	FLUORANTHENE	280-76268-10											J	
DMW20102015	8270D	ISOPHORONE	280-76268-10											J	
DMW23102015	9056	NITRITE	280-76532-5	Total										J	
DMW23102015	6010C	ALUMINUM	280-76532-5	Dissolved										UJ	
DMW23102015	6010C	IRON	280-76532-5	Dissolved										J	
DMW23102015	6020A	ARSENIC	280-76532-5	Dissolved											
DMW23102015	6020A	ARSENIC	280-76532-5	Total											
DMW23102015	6020A	BARIUM	280-76532-5	Total					J						
DMW23102015	6020A	BARIUM	280-76532-5	Dissolved					J						
DMW23102015	6020A	BERYLLIUM	280-76532-5	Dissolved											
DMW23102015	6020A	BERYLLIUM	280-76532-5	Total										J	
DMW23102015	6020A	CHROMIUM	280-76532-5	Total											
DMW23102015	6020A	COPPER	280-76532-5	Total										J	
DMW23102015	6020A	LEAD	280-76532-5	Total											
DMW23102015	6020A	NICKEL	280-76532-5	Dissolved											
DMW23102015	6020A	NICKEL	280-76532-5	Total											
DMW23102015	6020A	SILVER	280-76532-5	Total										UJ	
DMW23102015	6020A	THALLIUM	280-76532-5	Total										J	
DMW23102015	6020A	VANADIUM	280-76532-5	Total										J	
DMW23102015	6020A	ZINC	280-76532-5	Dissolved											
DMW23102015	6020A	ZINC	280-76532-5	Total											
DMW23102015	8260B	1,2,3-TRICHLOROBENZENE	280-76532-5											UJ	
DMW23102015	8270D	3,3'-DICHLOROBENZIDINE	280-76532-5						R	UJ					
DMW23102015	8270D	3-NITROANILINE	280-76532-5							UJ					
DMW23102015	8270D	4-CHLOROANILINE	280-76532-5							UJ					
DMW23102015	8270D	4-NITROANILINE	280-76532-5						UJ						
DMW23102015	8270D	BENZALDEHYDE	280-76532-5							UJ					

Table 3

Summary of Data Qualifications by Reason

Groundwater Periodic Monitoring Report, Fall 2015 Sample Collections, Fort Wingate Depot Activity

Sample ID	Method	AnalyteName	Lab Sample ID	Analysis Type	Holding Time	Method Blanks	Calibration Blank	Surrogate Recovery	MS/MSD Recovery	MS/MSD RPD	LCS Recovery	LCS RPD	Equipment Blank	Field Duplicate	Professional Judgement
DMW23102015	8270D	BENZIDINE	280-76532-5						R		UJ				
DMW23102015	8270D	BENZOIC ACID	280-76532-5												
DMW23102015	8270D	BENZYL ALCOHOL	280-76532-5												
DMW23102015	8270D	BIS(2-ETHYLHEXYL) PHTHALATE	280-76532-5											UJ	
DMW23102015	8330B	1,3,5-TRINITROBENZENE	280-76532-5						R	UJ					
DMW23102015	8330B	1,3-DINITROBENZENE	280-76532-5						UJ	UJ					
DMW23102015	8330B	2,4,6-TRINITROTOLUENE	280-76532-5						UJ	UJ					
DMW23102015	8330B	2,4-DINITROTOLUENE	280-76532-5						UJ	UJ					
DMW23102015	8330B	2,6-DINITROTOLUENE	280-76532-5						UJ	UJ					
DMW23102015	8330B	2-AMINO-4,6-DINITROTOLUENE	280-76532-5						UJ	UJ					
DMW23102015	8330B	2-NITROTOLUENE	280-76532-5						UJ	UJ					
DMW23102015	8330B	3-NITROTOLUENE	280-76532-5						UJ	UJ					
DMW23102015	8330B	4-AMINO-2,6-DINITROTOLUENE	280-76532-5						UJ	UJ					
DMW23102015	8330B	4-NITROTOLUENE	280-76532-5						UJ	UJ					
DMW23102015	8330B	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	280-76532-5						UJ	UJ					
DMW23102015	8330B	METHYL-2,4,6-TRINITROPHENYLNITRAMINE	280-76532-5						UJ	UJ					
DMW23102015	8330B	NITROBENZENE	280-76532-5						UJ	UJ					
DMW23102015	8330B	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	280-76532-5						UJ	UJ					
DTW15102015	6010C	IRON	280-76532-7	Total											
DTW15102015	6010C	POTASSIUM	280-76532-7	Dissolved											
DTW15102015	6010C	POTASSIUM	280-76532-7	Total											
DTW15102015	6020A	ARSENIC	280-76532-7	Dissolved											
DTW15102015	6020A	BARIUM	280-76532-7	Total					J						
DTW15102015	6020A	BARIUM	280-76532-7	Dissolved					J						
DTW15102015	6020A	BERYLLIUM	280-76532-7	Total										J	
DTW15102015	6020A	CHROMIUM	280-76532-7	Dissolved											
DTW15102015	6020A	CHROMIUM	280-76532-7	Total											
DTW15102015	6020A	COPPER	280-76532-7	Dissolved											
DTW15102015	6020A	MANGANESE	280-76532-7	Total											
DTW15102015	6020A	NICKEL	280-76532-7	Dissolved											
DTW15102015	6020A	NICKEL	280-76532-7	Total										J	
DTW15102015	6020A	SILVER	280-76532-7	Total										UJ	
DTW15102015	6020A	VANADIUM	280-76532-7	Dissolved											
DTW15102015	6020A	VANADIUM	280-76532-7	Total											
DTW15102015	6020A	ZINC	280-76532-7	Dissolved											
DTW15102015	6020A	ZINC	280-76532-7	Total											
DTW15102015	8270D	3,3'-DICHLOROBENZIDINE	280-76532-7						R	UJ					
DTW15102015	8270D	3-NITROANILINE	280-76532-7							UJ					
DTW15102015	8270D	4-CHLOROANILINE	280-76532-7							UJ					
DTW15102015	8270D	4-NITROANILINE	280-76532-7						UJ						
DTW15102015	8270D	BENZALDEHYDE	280-76532-7							UJ					
DTW15102015	8270D	BENZIDINE	280-76532-7						R		UJ				
DTW15102015	8330B	1,3,5-TRINITROBENZENE	280-76532-7						R	UJ					
DTW15102015	8330B	1,3-DINITROBENZENE	280-76532-7						UJ	UJ					
DTW15102015	8330B	2,4,6-TRINITROTOLUENE	280-76532-7						UJ	UJ					
DTW15102015	8330B	2,4-DINITROTOLUENE	280-76532-7						UJ	UJ					
DTW15102015	8330B	2,6-DINITROTOLUENE	280-76532-7						UJ	UJ					
DTW15102015	8330B	2-AMINO-4,6-DINITROTOLUENE	280-76532-7						UJ	UJ					
DTW15102015	8330B	2-NITROTOLUENE	280-76532-7						UJ	UJ					
DTW15102015	8330B	3-NITROTOLUENE	280-76532-7						UJ	UJ					
DTW15102015	8330B	4-AMINO-2,6-DINITROTOLUENE	280-76532-7						UJ	UJ					

Table 3

Summary of Data Qualifications by Reason

Groundwater Periodic Monitoring Report, Fall 2015 Sample Collections, Fort Wingate Depot Activity

Sample ID	Method	AnalyteName	Lab Sample ID	Analysis Type	Holding Time	Method Blanks	Calibration Blank	Surrogate Recovery	MS/MSD Recovery	MS/MSD RPD	LCS Recovery	LCS RPD	Equipment Blank	Field Duplicate	Professional Judgement
DTW43102015	6020A	VANADIUM	280-76331-4	Total											
DTW43102015	6020A	ZINC	280-76331-4	Dissolved											
DTW43102015	7470A	MERCURY	280-76331-4	Total					UJ						
DTW43102015	8270D	3,3'-DICHLOROBENZIDINE	280-76331-4						UJ						
DTW43102015	8270D	BENZIDINE	280-76331-4						R		UJ				
DTW43102015	8270D	BENZYL ALCOHOL	280-76331-4											UJ	
DTW43102015	8270D	DIMETHYL PHTHALATE	280-76331-4											J	
DTW43102015	8270D	FLUORANTHENE	280-76331-4											J	
DTW43102015	8270D	ISOPHORONE	280-76331-4											J	
DTW43102015	8270D	PHENANTHRENE	280-76331-4											J	
DTW43102015	8330B	3-NITROTOLUENE	280-76331-4							UJ					
FW3112015	9056	NITRATE	280-76268-4	Total											
FW3112015	6010C	ALUMINUM	280-76268-4	Dissolved											
FW3112015	6010C	IRON	280-76268-4	Dissolved											
FW3112015	6010C	POTASSIUM	280-76268-4	Total					J				U		
FW3112015	6010C	POTASSIUM	280-76268-4	Dissolved											
FW3112015	6010C	SODIUM	280-76268-4	Total									U		
FW3112015	6020A	CHROMIUM	280-76268-4	Dissolved											
FW3112015	6020A	CHROMIUM	280-76268-4	Total											
FW3112015	6020A	COBALT	280-76268-4	Total											
FW3112015	6020A	COPPER	280-76268-4	Dissolved											
FW3112015	6020A	COPPER	280-76268-4	Total											
FW3112015	6020A	LEAD	280-76268-4	Dissolved											
FW3112015	6020A	LEAD	280-76268-4	Total											
FW3112015	6020A	NICKEL	280-76268-4	Dissolved									U		
FW3112015	6020A	NICKEL	280-76268-4	Total											
FW3112015	6020A	SILVER	280-76268-4	Total									U		
FW3112015	6020A	THALLIUM	280-76268-4	Total									U		
FW3112015	6020A	ZINC	280-76268-4	Dissolved					J						
FW3112015	6020A	ZINC	280-76268-4	Total											
FW3112015	8081A	TOXAPHENE	280-76268-4						UJ						
FW3112015	8270D	2,4-DIMETHYLPHENOL	280-76268-4						UJ						
FW3112015	8270D	2-NITROANILINE	280-76268-4						UJ						
FW3112015	8270D	3,3'-DICHLOROBENZIDINE	280-76268-4						UJ						
FW3112015	8270D	3-NITROANILINE	280-76268-4						UJ	UJ					
FW3112015	8270D	4-CHLOROANILINE	280-76268-4						UJ	UJ					
FW3112015	8270D	4-NITROANILINE	280-76268-4						UJ						
FW3112015	8270D	BENZIDINE	280-76268-4						R						
MW01102015	6010C	ALUMINUM	280-76114-11	Total					J						
MW01102015	6010C	POTASSIUM	280-76114-11	Dissolved											
MW01102015	6010C	POTASSIUM	280-76114-11	Total											
MW01102015	6020A	ARSENIC	280-76114-11	Dissolved											
MW01102015	6020A	ARSENIC	280-76114-11	Total											
MW01102015	6020A	BERYLLIUM	280-76114-11	Dissolved											
MW01102015	6020A	BERYLLIUM	280-76114-11	Total											
MW01102015	6020A	CHROMIUM	280-76114-11	Dissolved											
MW01102015	6020A	CHROMIUM	280-76114-11	Total											
MW01102015	6020A	LEAD	280-76114-11	Dissolved											
MW01102015	6020A	LEAD	280-76114-11	Total											
MW01102015	6020A	NICKEL	280-76114-11	Total		U									
MW01102015	7470A	MERCURY	280-76114-11	Total							J				

Table 3

Summary of Data Qualifications by Reason

Groundwater Periodic Monitoring Report, Fall 2015 Sample Collections, Fort Wingate Depot Activity

Sample ID	Method	AnalyteName	Lab Sample ID	Analysis Type	Holding Time	Method Blanks	Calibration Blank	Surrogate Recovery	MS/MSD Recovery	MS/MSD RPD	LCS Recovery	LCS RPD	Equipment Blank	Field Duplicate	Professional Judgement
MW01102015	8015C DRO	DIESEL RANGE ORGANICS	280-76114-11										U		
MW01102015	8081A	4,4'-DDD	280-76114-11					UJ							
MW01102015	8081A	4,4'-DDE	280-76114-11					UJ							
MW01102015	8081A	4,4'-DDT	280-76114-11					UJ							
MW01102015	8081A	ALDRIN	280-76114-11					UJ							
MW01102015	8081A	ALPHA-BHC	280-76114-11					UJ							
MW01102015	8081A	ALPHA-CHLORDANE	280-76114-11					UJ							
MW01102015	8081A	BETA-BHC	280-76114-11					UJ							
MW01102015	8081A	DECACHLOROBIPHENYL	280-76114-11					J							
MW01102015	8081A	DELTA-BHC	280-76114-11					UJ							
MW01102015	8081A	DIELDRIN	280-76114-11					UJ							
MW01102015	8081A	ENDOSULFAN I	280-76114-11					UJ							
MW01102015	8081A	ENDOSULFAN II	280-76114-11					UJ							
MW01102015	8081A	ENDOSULFAN SULFATE	280-76114-11					UJ							
MW01102015	8081A	ENDRIN	280-76114-11					UJ							
MW01102015	8081A	ENDRIN ALDEHYDE	280-76114-11					UJ							
MW01102015	8081A	ENDRIN KETONE	280-76114-11					UJ							
MW01102015	8081A	GAMMA-BHC	280-76114-11					UJ							
MW01102015	8081A	GAMMA-CHLORDANE	280-76114-11					UJ							
MW01102015	8081A	HEPTACHLOR	280-76114-11					UJ							
MW01102015	8081A	HEPTACHLOR EPOXIDE	280-76114-11					UJ							
MW01102015	8081A	METHOXYCHLOR	280-76114-11					UJ							
MW01102015	8081A	TOXAPHENE	280-76114-11					UJ							
MW02102015	6010C	ALUMINUM	280-76114-10	Total					J						
MW02102015	6010C	POTASSIUM	280-76114-10	Dissolved											
MW02102015	6010C	POTASSIUM	280-76114-10	Total											
MW02102015	6020A	ARSENIC	280-76114-10	Total											
MW02102015	6020A	BERYLLIUM	280-76114-10	Total											
MW02102015	6020A	CHROMIUM	280-76114-10	Total											
MW02102015	6020A	COPPER	280-76114-10	Total											
MW02102015	6020A	LEAD	280-76114-10	Total											
MW02102015	6020A	NICKEL	280-76114-10	Dissolved											
MW02102015	6020A	NICKEL	280-76114-10	Total		U									
MW02102015	6020A	VANADIUM	280-76114-10	Dissolved											
MW02102015	8015C DRO	DIESEL RANGE ORGANICS	280-76114-10										U		
MW03102015	6010C	POTASSIUM	280-76216-3	Dissolved											
MW03102015	6010C	POTASSIUM	280-76216-3	Total											
MW03102015	6020A	ARSENIC	280-76216-3	Dissolved											
MW03102015	6020A	ARSENIC	280-76216-3	Total											
MW03102015	6020A	COBALT	280-76216-3	Dissolved											
MW03102015	6020A	COBALT	280-76216-3	Total											
MW03102015	6020A	COPPER	280-76216-3	Dissolved											
MW03102015	6020A	MANGANESE	280-76216-3	Dissolved					J						
MW03102015	6020A	MANGANESE	280-76216-3	Total					J						
MW03102015	6020A	NICKEL	280-76216-3	Dissolved											
MW03102015	6020A	NICKEL	280-76216-3	Total											
MW03102015	6020A	VANADIUM	280-76216-3	Dissolved											
MW03102015	6020A	VANADIUM	280-76216-3	Total											
MW03102015	6020A	ZINC	280-76216-3	Dissolved											
MW03102015	6020A	ZINC	280-76216-3	Total											
MW03102015	8330B	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	280-76216-3						UJ						

Table 3

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Sample ID	Method	AnalyteName	Lab Sample ID	Analysis Type	Holding Time	Method Blanks	Calibration Blank	Surrogate Recovery	MS/MSD Recovery	MS/MSD RPD	LCS Recovery	LCS RPD	Equipment Blank	Field Duplicate	Professional Judgement
MW18D102015	8260B	BROMOCHLOROMETHANE	280-76268-5		UJ										
MW18D102015	8260B	BROMODICHLOROMETHANE	280-76268-5		UJ										
MW18D102015	8260B	BROMOFORM	280-76268-5		UJ										
MW18D102015	8260B	BROMOMETHANE	280-76268-5		UJ										
MW18D102015	8260B	CARBON DISULFIDE	280-76268-5		UJ										
MW18D102015	8260B	CARBON TETRACHLORIDE	280-76268-5		UJ										
MW18D102015	8260B	CHLOROBENZENE	280-76268-5		UJ										
MW18D102015	8260B	CHLOROETHANE	280-76268-5		UJ										
MW18D102015	8260B	CHLOROFORM	280-76268-5		UJ										
MW18D102015	8260B	CHLOROMETHANE	280-76268-5		UJ										
MW18D102015	8260B	CIS-1,2-DICHLOROETHENE	280-76268-5		UJ										
MW18D102015	8260B	CIS-1,3-DICHLOROPROPENE	280-76268-5		UJ										
MW18D102015	8260B	CUMENE	280-76268-5		UJ										
MW18D102015	8260B	DIBROMOCHLOROMETHANE	280-76268-5		UJ										
MW18D102015	8260B	DIBROMOMETHANE	280-76268-5		UJ										
MW18D102015	8260B	DICHLORODIFLUOROMETHANE	280-76268-5		UJ										
MW18D102015	8260B	ETHYLBENZENE	280-76268-5		UJ										
MW18D102015	8260B	HEXACHLOROBUTADIENE	280-76268-5		UJ										
MW18D102015	8260B	m,p-Xylene	280-76268-5		UJ										
MW18D102015	8260B	METHYL ACETATE	280-76268-5		UJ										
MW18D102015	8260B	METHYL TERT-BUTYL ETHER	280-76268-5		UJ										
MW18D102015	8260B	Methylcyclohexane	280-76268-5		UJ										
MW18D102015	8260B	METHYLENE CHLORIDE	280-76268-5		UJ										
MW18D102015	8260B	NAPHTHALENE	280-76268-5		UJ										
MW18D102015	8260B	N-BUTYLBENZENE	280-76268-5		UJ										
MW18D102015	8260B	N-PROPYLBENZENE	280-76268-5		UJ										
MW18D102015	8260B	O-XYLENE	280-76268-5		UJ										
MW18D102015	8260B	P-ISOPROPYLTOLUENE	280-76268-5		UJ										
MW18D102015	8260B	SEC-BUTYLBENZENE	280-76268-5		UJ										
MW18D102015	8260B	STYRENE	280-76268-5		UJ										
MW18D102015	8260B	TERT-BUTYLBENZENE	280-76268-5		UJ										
MW18D102015	8260B	TETRACHLOROETHENE	280-76268-5		UJ										
MW18D102015	8260B	TOLUENE	280-76268-5		UJ										
MW18D102015	8260B	TRANS-1,2-DICHLOROETHENE	280-76268-5		UJ										
MW18D102015	8260B	TRANS-1,3-DICHLOROPROPENE	280-76268-5		UJ										
MW18D102015	8260B	TRICHLOROETHENE	280-76268-5		UJ										
MW18D102015	8260B	TRICHLOROFLUOROMETHANE	280-76268-5		UJ										
MW18D102015	8260B	VINYL CHLORIDE	280-76268-5		UJ										
MW20102015	6860	PERCHLORATE	280-76268-9						J	J					
MW20102015	9056	NITRITE	280-76268-9	Total											
MW20102015	6010C	IRON	280-76268-9	Total											
MW20102015	6010C	IRON	280-76268-9	Dissolved										J	
MW20102015	6010C	POTASSIUM	280-76268-9	Total					J				U		
MW20102015	6010C	SODIUM	280-76268-9	Total											J
MW20102015	6020A	BERYLLIUM	280-76268-9	Total										UJ	
MW20102015	6020A	CHROMIUM	280-76268-9	Total										UJ	
MW20102015	6020A	NICKEL	280-76268-9	Dissolved									U		
MW20102015	6020A	SILVER	280-76268-9	Total									U	J	
MW20102015	6020A	THALLIUM	280-76268-9	Total										UJ	
MW20102015	6020A	ZINC	280-76268-9	Dissolved					J						
MW20102015	8081A	TOXAPHENE	280-76268-9						UJ						

Table 3

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MW22D102015	6020A	COBALT	280-76268-8	Dissolved											
MW22D102015	6020A	COBALT	280-76268-8	Total											
MW22D102015	6020A	COPPER	280-76268-8	Dissolved											
MW22D102015	6020A	COPPER	280-76268-8	Total											
MW22D102015	6020A	NICKEL	280-76268-8	Dissolved									U		
MW22D102015	6020A	NICKEL	280-76268-8	Total											
MW22D102015	6020A	VANADIUM	280-76268-8	Dissolved											
MW22D102015	6020A	VANADIUM	280-76268-8	Total											
MW22D102015	6020A	ZINC	280-76268-8	Dissolved					J						
MW22D102015	6020A	ZINC	280-76268-8	Total											
MW22D102015	8015C DRO	DIESEL RANGE ORGANICS	280-76268-8												
MW22D102015	8081A	TOXAPHENE	280-76268-8							UJ					
MW22D102015	8270D	2,4-DIMETHYLPHENOL	280-76268-8							UJ					
MW22D102015	8270D	2-NITROANILINE	280-76268-8							UJ					
MW22D102015	8270D	3,3'-DICHLOROBENZIDINE	280-76268-8							UJ					
MW22D102015	8270D	3-NITROANILINE	280-76268-8							UJ	UJ				
MW22D102015	8270D	4-CHLOROANILINE	280-76268-8							UJ	UJ				
MW22D102015	8270D	4-NITROANILINE	280-76268-8							UJ					
MW22D102015	8270D	BENZIDINE	280-76268-8							R					
MW22S102015	6010C	ALUMINUM	280-76166-2	Dissolved											
MW22S102015	6010C	IRON	280-76166-2	Dissolved											
MW22S102015	6010C	POTASSIUM	280-76166-2	Dissolved											
MW22S102015	6020A	ANTIMONY	280-76166-2	Dissolved											
MW22S102015	6020A	ARSENIC	280-76166-2	Dissolved											
MW22S102015	6020A	COBALT	280-76166-2	Dissolved											
MW22S102015	6020A	LEAD	280-76166-2	Dissolved											
MW22S102015	6020A	MANGANESE	280-76216-7	Total					J						
MW22S102015	6020A	NICKEL	280-76166-2	Dissolved											
MW22S102015	6020A	SILVER	280-76166-2	Dissolved											
MW22S102015	6020A	SILVER	280-76216-7	Total											
MW22S102015	6020A	THALLIUM	280-76166-2	Dissolved											
MW22S102015	6020A	THALLIUM	280-76216-7	Total											
MW22S102015	6020A	VANADIUM	280-76166-2	Dissolved											
MW22S102015	6020A	ZINC	280-76166-2	Dissolved											
MW22S102015	7470A	MERCURY	280-76216-7	Total											
MW22S102015	8015C DRO	DIESEL RANGE ORGANICS	280-76331-6												
MW22S102015	8081A	4,4'-DDD	280-76405-10							UJ					
MW22S102015	8081A	4,4'-DDE	280-76405-10							UJ					
MW22S102015	8081A	4,4'-DDT	280-76405-10							UJ					
MW22S102015	8081A	ALDRIN	280-76405-10							UJ					
MW22S102015	8081A	ALPHA-BHC	280-76405-10							UJ					
MW22S102015	8081A	ALPHA-CHLORDANE	280-76405-10							UJ					
MW22S102015	8081A	BETA-BHC	280-76405-10							UJ					
MW22S102015	8081A	DECACHLOROBIPHENYL	280-76405-10							J					
MW22S102015	8081A	DELTA-BHC	280-76405-10							UJ					
MW22S102015	8081A	DIELDRIN	280-76405-10							UJ					
MW22S102015	8081A	ENDOSULFAN I	280-76405-10							UJ					
MW22S102015	8081A	ENDOSULFAN II	280-76405-10							UJ					
MW22S102015	8081A	ENDOSULFAN SULFATE	280-76405-10							UJ					
MW22S102015	8081A	ENDRIN	280-76405-10							UJ					
MW22S102015	8081A	ENDRIN ALDEHYDE	280-76405-10							UJ					

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MW22S102015	8081A	ENDRIN KETONE	280-76405-10					UJ							
MW22S102015	8081A	GAMMA-BHC	280-76405-10					UJ							
MW22S102015	8081A	GAMMA-CHLORDANE	280-76405-10					UJ							
MW22S102015	8081A	HEPTACHLOR	280-76405-10					UJ							
MW22S102015	8081A	HEPTACHLOR EPOXIDE	280-76405-10					UJ							
MW22S102015	8081A	METHOXYCHLOR	280-76405-10					UJ							
MW22S102015	8081A	TOXAPHENE	280-76405-10					UJ							
MW22S102015	8260B	1,1-DICHLOROETHANE	280-76114-7												
MW22S102015	8270D	2,4-DIMETHYLPHENOL	280-76268-7						UJ						
MW22S102015	8270D	2-NITROANILINE	280-76268-7						UJ						
MW22S102015	8270D	3,3'-DICHLOROBENZIDINE	280-76268-7						UJ						
MW22S102015	8270D	3-NITROANILINE	280-76268-7						UJ	UJ					
MW22S102015	8270D	4-CHLOROANILINE	280-76268-7						UJ	UJ					
MW22S102015	8270D	4-NITROANILINE	280-76268-7						UJ						
MW22S102015	8270D	BENZIDINE	280-76268-7						R						
MW22S102015	8270D	BIS(2-ETHYLHEXYL) PHTHALATE	280-76268-7												
MW22S102015	8330B	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	280-76216-7						UJ						
MW23102015	9056	NITRITE	280-76532-4	Total										UJ	
MW23102015	6010C	ALUMINUM	280-76532-4	Dissolved										J	
MW23102015	6010C	IRON	280-76532-4	Dissolved										J	
MW23102015	6020A	ARSENIC	280-76532-4	Dissolved											
MW23102015	6020A	ARSENIC	280-76532-4	Total											
MW23102015	6020A	BARIUM	280-76532-4	Total					J						
MW23102015	6020A	BARIUM	280-76532-4	Dissolved					J						
MW23102015	6020A	BERYLLIUM	280-76532-4	Total										J	
MW23102015	6020A	CHROMIUM	280-76532-4	Total											
MW23102015	6020A	COPPER	280-76532-4	Total										J	
MW23102015	6020A	COPPER	280-76532-4	Dissolved											
MW23102015	6020A	LEAD	280-76532-4	Dissolved											
MW23102015	6020A	LEAD	280-76532-4	Total											
MW23102015	6020A	NICKEL	280-76532-4	Dissolved											
MW23102015	6020A	NICKEL	280-76532-4	Total											
MW23102015	6020A	SILVER	280-76532-4	Total										J	
MW23102015	6020A	THALLIUM	280-76532-4	Total										UJ	
MW23102015	6020A	VANADIUM	280-76532-4	Total										J	
MW23102015	6020A	ZINC	280-76532-4	Total											
MW23102015	8260B	1,2,3-TRICHLOROBENZENE	280-76532-4											J	
MW23102015	8270D	3,3'-DICHLOROBENZIDINE	280-76532-4						R	UJ					
MW23102015	8270D	3-NITROANILINE	280-76532-4							UJ					
MW23102015	8270D	4-CHLOROANILINE	280-76532-4							UJ					
MW23102015	8270D	4-NITROANILINE	280-76532-4						UJ						
MW23102015	8270D	BENZALDEHYDE	280-76532-4							UJ					
MW23102015	8270D	BENZIDINE	280-76532-4						R		UJ				
MW23102015	8270D	BENZOIC ACID	280-76532-4												
MW23102015	8270D	BENZYL ALCOHOL	280-76532-4												
MW23102015	8270D	BIS(2-ETHYLHEXYL) PHTHALATE	280-76532-4											J	
MW23102015	8330B	1,3,5-TRINITROBENZENE	280-76532-4						R	UJ					
MW23102015	8330B	1,3-DINITROBENZENE	280-76532-4						UJ	UJ					
MW23102015	8330B	2,4,6-TRINITROTOLUENE	280-76532-4						UJ	UJ					
MW23102015	8330B	2,4-DINITROTOLUENE	280-76532-4						UJ	UJ					
MW23102015	8330B	2,6-DINITROTOLUENE	280-76532-4						UJ	UJ					

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TMW23102015	9056	NITRITE	280-76216-10	Total											
TMW23102015	6010C	POTASSIUM	280-76216-10	Dissolved											
TMW23102015	6010C	POTASSIUM	280-76216-10	Total											
TMW23102015	6020A	ARSENIC	280-76216-10	Dissolved											
TMW23102015	6020A	ARSENIC	280-76216-10	Total											
TMW23102015	6020A	BERYLLIUM	280-76216-10	Dissolved											
TMW23102015	6020A	BERYLLIUM	280-76216-10	Total											
TMW23102015	6020A	CHROMIUM	280-76216-10	Dissolved											
TMW23102015	6020A	CHROMIUM	280-76216-10	Total											
TMW23102015	6020A	COPPER	280-76216-10	Total											
TMW23102015	6020A	LEAD	280-76216-10	Dissolved											
TMW23102015	6020A	LEAD	280-76216-10	Total											
TMW23102015	6020A	MANGANESE	280-76216-10	Dissolved					J						
TMW23102015	6020A	MANGANESE	280-76216-10	Total					J						
TMW23102015	6020A	NICKEL	280-76216-10	Dissolved											
TMW23102015	6020A	NICKEL	280-76216-10	Total											
TMW23102015	6020A	SILVER	280-76216-10	Total			U								
TMW23102015	6020A	ZINC	280-76216-10	Total											
TMW23102015	6020A	ZINC	280-76216-10	Dissolved											
TMW23102015	8330B	1,2-DINITROBENZENE	280-76216-10					J							
TMW23102015	8330B	1,2-DINITROBENZENE	280-76216-10					J							
TMW23102015	8330B	2-AMINO-4,6-DINITROTOLUENE	280-76216-10												J
TMW23102015	8330B	4-AMINO-2,6-DINITROTOLUENE	280-76216-10												J
TMW23102015	8330B	4-NITROTOLUENE	280-76216-10					J							J
TMW23102015	8330B	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	280-76216-10						UJ						
TMW24102015	6010C	IRON	280-76532-8	Dissolved											
TMW24102015	6010C	POTASSIUM	280-76532-8	Dissolved											
TMW24102015	6020A	ARSENIC	280-76532-8	Dissolved											
TMW24102015	6020A	ARSENIC	280-76532-8	Total											
TMW24102015	6020A	BARIUM	280-76532-8	Total					J						
TMW24102015	6020A	BARIUM	280-76532-8	Dissolved					J						
TMW24102015	6020A	CHROMIUM	280-76532-8	Total											
TMW24102015	6020A	COBALT	280-76532-8	Dissolved											
TMW24102015	6020A	COBALT	280-76532-8	Total											
TMW24102015	6020A	COPPER	280-76532-8	Dissolved											
TMW24102015	6020A	LEAD	280-76532-8	Total											
TMW24102015	6020A	NICKEL	280-76532-8	Dissolved											
TMW24102015	6020A	NICKEL	280-76532-8	Total											
TMW24102015	6020A	SILVER	280-76532-8	Total											
TMW24102015	6020A	VANADIUM	280-76532-8	Dissolved											
TMW24102015	6020A	VANADIUM	280-76532-8	Total											
TMW24102015	6020A	ZINC	280-76532-8	Dissolved											
TMW24102015	6020A	ZINC	280-76532-8	Total											
TMW24102015	8260B	ACETONE	280-76532-8												
TMW24102015	8330B	1,3,5-TRINITROBENZENE	280-76532-8						R	UJ					
TMW24102015	8330B	1,3-DINITROBENZENE	280-76532-8						UJ	UJ					
TMW24102015	8330B	2,4,6-TRINITROTOLUENE	280-76532-8						UJ	UJ					
TMW24102015	8330B	2,4-DINITROTOLUENE	280-76532-8						UJ	UJ					
TMW24102015	8330B	2,6-DINITROTOLUENE	280-76532-8						UJ	UJ					
TMW24102015	8330B	2-AMINO-4,6-DINITROTOLUENE	280-76532-8						UJ	UJ					
TMW24102015	8330B	2-NITROTOLUENE	280-76532-8						UJ	UJ					

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TMW36102015	6020A	LEAD	280-76114-6	Dissolved											
TMW36102015	6020A	LEAD	280-76114-6	Total									U		
TMW36102015	6020A	SILVER	280-76114-6	Total									U		
TMW36102015	6020A	THALLIUM	280-76114-6	Total		U							U		
TMW36102015	6020A	VANADIUM	280-76114-6	Dissolved											
TMW36102015	6020A	VANADIUM	280-76114-6	Total											
TMW36102015	6020A	ZINC	280-76114-6	Dissolved											
TMW36102015	8270D	ACETOPHENONE	280-76114-6												
TMW37102015	6010C	ALUMINUM	280-76114-5	Dissolved											
TMW37102015	6010C	ALUMINUM	280-76114-5	Total					J						
TMW37102015	6010C	IRON	280-76114-5	Dissolved											
TMW37102015	6010C	POTASSIUM	280-76114-5	Dissolved											
TMW37102015	6010C	POTASSIUM	280-76114-5	Total											
TMW37102015	6020A	ARSENIC	280-76114-5	Dissolved											
TMW37102015	6020A	ARSENIC	280-76114-5	Total											
TMW37102015	6020A	BERYLLIUM	280-76114-5	Total											
TMW37102015	6020A	CHROMIUM	280-76114-5	Dissolved											
TMW37102015	6020A	CHROMIUM	280-76114-5	Total											
TMW37102015	6020A	COBALT	280-76114-5	Dissolved											
TMW37102015	6020A	COBALT	280-76114-5	Total									U		
TMW37102015	6020A	COPPER	280-76114-5	Total											
TMW37102015	6020A	LEAD	280-76114-5	Dissolved											
TMW37102015	6020A	LEAD	280-76114-5	Total											
TMW37102015	6020A	SILVER	280-76114-5	Total											
TMW37102015	6020A	THALLIUM	280-76114-5	Total		U							U		
TMW37102015	6020A	VANADIUM	280-76114-5	Dissolved											
TMW37102015	6020A	VANADIUM	280-76114-5	Total											
TMW37102015	6020A	ZINC	280-76114-5	Dissolved											
TMW38102015	6860	PERCHLORATE	280-76532-3												
TMW38102015	9056	NITRATE	280-76532-3	Total											
TMW38102015	6010C	ALUMINUM	280-76532-3	Dissolved											
TMW38102015	6020A	ANTIMONY	280-76532-3	Dissolved											
TMW38102015	6020A	ANTIMONY	280-76532-3	Total											
TMW38102015	6020A	ARSENIC	280-76532-3	Dissolved											
TMW38102015	6020A	ARSENIC	280-76532-3	Total											
TMW38102015	6020A	BARIUM	280-76532-3	Total					J						
TMW38102015	6020A	BARIUM	280-76532-3	Dissolved					J						
TMW38102015	6020A	BERYLLIUM	280-76532-3	Total											
TMW38102015	6020A	CHROMIUM	280-76532-3	Total											
TMW38102015	6020A	COBALT	280-76532-3	Dissolved											
TMW38102015	6020A	LEAD	280-76532-3	Total											
TMW38102015	6020A	NICKEL	280-76532-3	Dissolved											
TMW38102015	6020A	SILVER	280-76532-3	Dissolved											
TMW38102015	6020A	SILVER	280-76532-3	Total											
TMW38102015	6020A	THALLIUM	280-76532-3	Dissolved											
TMW38102015	6020A	THALLIUM	280-76532-3	Total											
TMW38102015	6020A	VANADIUM	280-76532-3	Dissolved											
TMW38102015	6020A	ZINC	280-76532-3	Dissolved											
TMW38102015	8270D	3,3'-DICHLOROBENZIDINE	280-76532-3						R	UJ					
TMW38102015	8270D	3-NITROANILINE	280-76532-3							UJ					
TMW38102015	8270D	4-CHLOROANILINE	280-76532-3							UJ					

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TMW40D102015	6020A	VANADIUM	280-76331-7	Dissolved											
TMW40D102015	6020A	VANADIUM	280-76331-7	Total											
TMW40D102015	6020A	ZINC	280-76331-7	Dissolved											
TMW40D102015	6020A	ZINC	280-76331-7	Total											
TMW40D102015	7470A	MERCURY	280-76331-7	Total					UJ						
TMW40D102015	8270D	3,3'-DICHLOROBENZIDINE	280-76331-7						UJ						
TMW40D102015	8270D	BENZIDINE	280-76331-7						R		UJ				
TMW40D102015	8330B	3-NITROTOLUENE	280-76331-7							UJ					
TMW40S102015	6010C	ALUMINUM	280-76114-9	Total					J						
TMW40S102015	6020A	CADMIUM	280-76114-9	Total											
TMW40S102015	6020A	SILVER	280-76114-9	Dissolved											U
TMW40S102015	6020A	SILVER	280-76114-9	Total											U
TMW40S102015	6020A	THALLIUM	280-76114-9	Dissolved											
TMW40S102015	6020A	THALLIUM	280-76114-9	Total		U									U
TMW40S102015	7470A	MERCURY	280-76114-9	Dissolved											
TMW40S102015	7470A	MERCURY	280-76114-9	Total							J				
TMW40S102015	8081A	4,4'-DDD	280-76216-8						UJ						
TMW40S102015	8081A	4,4'-DDE	280-76216-8						UJ						
TMW40S102015	8081A	4,4'-DDT	280-76216-8						UJ						
TMW40S102015	8081A	ALDRIN	280-76216-8						UJ						
TMW40S102015	8081A	ALPHA-BHC	280-76216-8						UJ						
TMW40S102015	8081A	ALPHA-CHLORDANE	280-76216-8						UJ						
TMW40S102015	8081A	BETA-BHC	280-76216-8						UJ						
TMW40S102015	8081A	DECACHLOROBIPHENYL	280-76216-8						J						
TMW40S102015	8081A	DELTA-BHC	280-76216-8						UJ						
TMW40S102015	8081A	DIELDRIN	280-76216-8						UJ						
TMW40S102015	8081A	ENDOSULFAN I	280-76216-8						UJ						
TMW40S102015	8081A	ENDOSULFAN II	280-76216-8						UJ						
TMW40S102015	8081A	ENDOSULFAN SULFATE	280-76216-8						UJ						
TMW40S102015	8081A	ENDRIN	280-76216-8						UJ						
TMW40S102015	8081A	ENDRIN ALDEHYDE	280-76216-8						UJ						
TMW40S102015	8081A	ENDRIN KETONE	280-76216-8						UJ						
TMW40S102015	8081A	GAMMA-BHC	280-76216-8						UJ						
TMW40S102015	8081A	GAMMA-CHLORDANE	280-76216-8						UJ						
TMW40S102015	8081A	HEPTACHLOR	280-76216-8						UJ						
TMW40S102015	8081A	HEPTACHLOR EPOXIDE	280-76216-8						UJ						
TMW40S102015	8081A	METHOXYCHLOR	280-76216-8						UJ						
TMW40S102015	8081A	TOXAPHENE	280-76216-8						UJ						
TMW40S102015	8260B	CHLOROFORM	280-76114-9												U
TMW40S102015	8270D	2,4-DINITROPHENOL	280-76166-1												
TMW40S102015	8270D	BENZIDINE	280-76166-1								UJ				
TMW40S102015	8330B	1,2-DINITROBENZENE	280-76166-1						J						
TMW40S102015	8330B	1,2-DINITROBENZENE	280-76166-1						J						
TMW40S102015	8330B	1,2-DINITROBENZENE	280-76166-1						J						
TMW40S102015	8330B	1,3,5-TRINITROBENZENE	280-76166-1						J						J
TMW40S102015	8330B	1,3-DINITROBENZENE	280-76166-1						R						
TMW40S102015	8330B	2,4,6-TRINITROTOLUENE	280-76166-1						J						J
TMW40S102015	8330B	2,4-DINITROTOLUENE	280-76166-1						R						
TMW40S102015	8330B	2,6-DINITROTOLUENE	280-76166-1						R						
TMW40S102015	8330B	2-AMINO-4,6-DINITROTOLUENE	280-76166-1						R						
TMW40S102015	8330B	2-NITROTOLUENE	280-76166-1						R						

Table 3

Summary of Data Qualifications by Reason

Groundwater Periodic Monitoring Report, Fall 2015 Sample Collections, Fort Wingate Depot Activity

Sample ID	Method	AnalyteName	Lab Sample ID	Analysis Type	Holding Time	Method Blanks	Calibration Blank	Surrogate Recovery	MS/MSD Recovery	MS/MSD RPD	LCS Recovery	LCS RPD	Equipment Blank	Field Duplicate	Professional Judgement
TMW40S102015	8330B	3-NITROTOLUENE	280-76166-1					R							
TMW40S102015	8330B	4-AMINO-2,6-DINITROTOLUENE	280-76166-1					R							
TMW40S102015	8330B	4-NITROTOLUENE	280-76166-1					R							
TMW40S102015	8330B	NITROBENZENE	280-76166-1					R							
TMW40S102015	8330B	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	280-76166-1					J							J
TMW41102015	6010C	POTASSIUM	280-76166-14	Dissolved											
TMW41102015	6010C	POTASSIUM	280-76166-14	Total											
TMW41102015	6020A	ARSENIC	280-76166-14	Dissolved											
TMW41102015	6020A	ARSENIC	280-76166-14	Total											
TMW41102015	6020A	CHROMIUM	280-76166-14	Dissolved											
TMW41102015	6020A	CHROMIUM	280-76166-14	Total											
TMW41102015	6020A	COBALT	280-76166-14	Total											
TMW41102015	6020A	COPPER	280-76166-14	Dissolved											
TMW41102015	6020A	LEAD	280-76166-14	Total											
TMW41102015	6020A	MANGANESE	280-76166-14	Dissolved											
TMW41102015	6020A	NICKEL	280-76166-14	Total											
TMW41102015	6020A	SELENIUM	280-76166-14	Dissolved											
TMW41102015	6020A	SELENIUM	280-76166-14	Total											
TMW41102015	6020A	SILVER	280-76166-14	Dissolved											
TMW41102015	6020A	SILVER	280-76166-14	Total											
TMW41102015	6020A	ZINC	280-76166-14	Total											
TMW41102015	8270D	BENZIDINE	280-76166-14									UJ			
TMW41102015	8270D	BENZOIC ACID	280-76166-14												
TMW43102015	6010C	POTASSIUM	280-76331-3	Total											
TMW43102015	6020A	ANTIMONY	280-76331-3	Dissolved										J	
TMW43102015	6020A	ANTIMONY	280-76331-3	Total											
TMW43102015	6020A	COBALT	280-76331-3	Dissolved											
TMW43102015	6020A	COBALT	280-76331-3	Total											
TMW43102015	6020A	COPPER	280-76331-3	Dissolved											
TMW43102015	6020A	NICKEL	280-76331-3	Dissolved											
TMW43102015	6020A	SILVER	280-76331-3	Dissolved											
TMW43102015	6020A	SILVER	280-76331-3	Total		U									
TMW43102015	6020A	THALLIUM	280-76331-3	Dissolved											
TMW43102015	6020A	THALLIUM	280-76331-3	Total											
TMW43102015	6020A	VANADIUM	280-76331-3	Dissolved											
TMW43102015	6020A	VANADIUM	280-76331-3	Total											
TMW43102015	6020A	ZINC	280-76331-3	Dissolved											
TMW43102015	7470A	MERCURY	280-76331-3	Total					J						
TMW43102015	8270D	3,3'-DICHLOROBENZIDINE	280-76331-3						UJ						
TMW43102015	8270D	BENZIDINE	280-76331-3						R		UJ				
TMW43102015	8270D	BENZYL ALCOHOL	280-76331-3											J	
TMW43102015	8270D	DIMETHYL PHTHALATE	280-76331-3											UJ	
TMW43102015	8270D	FLUORANTHENE	280-76331-3											UJ	
TMW43102015	8270D	ISOPHORONE	280-76331-3											UJ	
TMW43102015	8270D	PHENANTHRENE	280-76331-3											UJ	
TMW43102015	8330B	3-NITROTOLUENE	280-76331-3							UJ					
TMW43102015MS	6010C	SODIUM	280-76331-3MS	Dissolved					J						
TMW43102015MS	7470A	MERCURY	280-76331-3MS	Total					J						
TMW43102015MS	8270D	3,3'-DICHLOROBENZIDINE	280-76331-3MS						J						
TMW43102015MS	8270D	BENZIDINE	280-76331-3MS						J						
TMW43102015MS	8270D	NITROBENZENE	280-76331-3MS						J						

Table 3**Summary of Data Qualifications by Reason***Groundwater Periodic Monitoring Report, Fall 2015 Sample Collections, Fort Wingate Depot Activity*

Sample ID	Method	AnalyteName	Lab Sample ID	Analysis Type	Holding Time	Method Blanks	Calibration Blank	Surrogate Recovery	MS/MSD Recovery	MS/MSD RPD	LCS Recovery	LCS RPD	Equipment Blank	Field Duplicate	Professional Judgement
TMW46102015	6020A	BERYLLIUM	280-76166-6	Total											
TMW46102015	6020A	CHROMIUM	280-76166-6	Total											
TMW46102015	6020A	COPPER	280-76166-6	Dissolved											
TMW46102015	6020A	MANGANESE	280-76166-6	Dissolved											
TMW46102015	6020A	NICKEL	280-76166-6	Dissolved											
TMW46102015	6020A	SILVER	280-76166-6	Total											
TMW46102015	6020A	THALLIUM	280-76166-6	Total											
TMW46102015	6020A	VANADIUM	280-76166-6	Dissolved											
TMW46102015	6020A	ZINC	280-76166-6	Total											
TMW46102015	7470A	MERCURY	280-76166-6	Total											
TMW46102015	8270D	BENZIDINE	280-76166-6								UJ				
TMW47102015	8260B	DICHLORODIFLUOROMETHANE	280-76475-12									UJ			
TMW48102015	6020A	ARSENIC	280-76405-13	Dissolved											
TMW48102015	6020A	ARSENIC	280-76405-13	Total											
TMW48102015	6020A	COPPER	280-76405-13	Total											
TMW48102015	6020A	COPPER	280-76405-13	Dissolved											
TMW48102015	6020A	NICKEL	280-76405-13	Dissolved											
TMW48102015	6020A	VANADIUM	280-76405-13	Dissolved											
TMW48102015	6020A	VANADIUM	280-76405-13	Total											
TMW48102015	6020A	ZINC	280-76405-13	Dissolved											
TMW48102015	6020A	ZINC	280-76405-13	Total											
TMW48102015	8270D	BENZIDINE	280-76405-13								UJ				
TMW49102015	8260B	DICHLORODIFLUOROMETHANE	280-76475-3									UJ			

Notes:

HT = holding time

ID = identification

J = analyte was detected and is considered to be an estimated concentration

LCS = laboratory control sample

MS = matrix spike

MSD = matrix spike duplicate

R = analyte has been rejected; it is unusable for project objectives.

RPD = relative percent difference

U = analyte was not detected above the reported sample limit of detection

UJ = analyte was not detected above the reported limit of detection; however, the reported value is considered an estimated concentration