

602623 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 9.0 WEATHER CALM-OVERCST  
 PHASE 2 MAP NM1412 SITE 0001 TIME TAKEN 09/22/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.907( 48 54'25") LONG 97.129( 97 7'44") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ YES ,RELEASED 801031 SAMPLE: COLOR L - -BN ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 350 DISSOLVED OXYGEN(PPM) 2.6  
 WATER TEMP(C) + 16.9 VISIBILITY(M) CLEAR PH 7.1 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 110 P ALKALINITY(PPM) 40 M ALKALINITY(PPM) 110  
 APPEARANCE CLEAR DISCHARGE(L/M)  
 PRODUCING HORIZON QTL CONFIDENCE HIGH SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION ELECTRIC CASING OTHER PIPE COMPOSITION OTHER  
 METERS FROM HEAD 2 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY INFREQUENT  
 DEPTH TO PROD HORIZON(M) 4 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH(M) 4 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 PEMBINA 7.5 MINUTE TOPO, HERMAN LOER, HUMBOLDT, MN., 56731, SAMPLE FROM PUMP ON WELL, WELL IS 17M SOUTH OF SE CORNER OF BARN;  
 1-78 HERMAN LOER & HUMBOLDT, MN., 56731;  
 3-20 HOOD CASING;  
 3-21 RUBBER HOSE;

602624 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 10.0 WEATHER LT WIND-OVERCST  
 PHASE 2 MAP NM1412 SITE 0002 TIME TAKEN 10/22/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.933( 48 55'58") LONG 97.188( 97 11'16") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ NO ,RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 705 DISSOLVED OXYGEN(PPM) 4.1  
 WATER TEMP(C) + 8.6 VISIBILITY(M) CLEAR PH 7.5 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 340 P ALKALINITY(PPM) 45 M ALKALINITY(PPM) 340  
 APPEARANCE CLEAR DISCHARGE(L/M)  
 PRODUCING HORIZON QTL CONFIDENCE HIGH SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION HAND CASING OTHER PIPE COMPOSITION OTHER  
 METERS FROM HEAD 0 WITH RESPECT TO PRESSURE TANK NONE USE NONE PUMPING FREQUENCY RARE  
 DEPTH TO PROD HORIZON(M) 5 CONFIDENCE OF PRODUCING DEPTH HIGH SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH(M) 5 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 PEMBINA 7.5 MINUTE TOPO, LEROY CLOW, ST. VINCENT, MN., 56755, SAMPLE FROM BUCKET LOWERED INTO WELL, WELL IS 6M NORTH OF METAL BARN;  
 3-20 BRICK CASING;  
 3-21 NO PIPE;

602625 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 10.9 WEATHER LT WIND-OVERCST

PHASE 2 MAP NM1412 SITE 0003 TIME TAKEN 11/22/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.968 (48 58' 4") LONG 97.224 (97 13' 26") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QAL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 1540 DISSOLVED OXYGEN (PPM) 1.8  
 WATER TEMP (C) + 17.0 VISIBILITY (M) CLEAR PH 7.1 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 530 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 545  
 APPEARANCE CLEAR DISCHARGE (L/M)  
 PRODUCING HORIZON QTL CONFIDENCE HIGH SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRIVE POINT POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION COPPER  
 METERS FROM HEAD 8 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY INFREQUENT  
 DEPTH TO PROD HORIZON (M) 4 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH (M) 4 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 PEMBINA 7.5 MINUTE TOPO, WARREN CLOW, ST. VINCENT, MN., 56755, SAMPLE FROM TAP ON EAST SIDE OF HOUSE, WELL IS UNDER HOUSE;  
 1-78 WARREN CLOW & ST. VINCENT, MN., 56755;

602626 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP (C) + 11.5 WEATHER LT WIND-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0004 TIME TAKEN 12/22/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.973 (48 58' 22") LONG 97.199 (97 11' 56") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 1720 DISSOLVED OXYGEN (PPM) 2.2  
 WATER TEMP (C) + 13.8 VISIBILITY (M) CLEAR PH 6.8 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 740 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 760  
 APPEARANCE CLEAR DISCHARGE (L/M)  
 PRODUCING HORIZON QTL CONFIDENCE HIGH SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRIVE POINT POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION COPPER  
 METERS FROM HEAD 8 WITH RESPECT TO PRESSURE TANK NONE USE OTHER PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON (M) 4 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH (M) 4 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 PEMBINA 7.5 MINUTE TOPO, ST. VINCENT ELEVATOR CO., ST. VINCENT, MN., 56755, SAMPLE FROM SINK IN WASHROOM, WELL IS IN  
 BASEMENT OF OFFICE BLDG.;  
 1-78 ST. VINCENT ELEVATOR CO. & ST. VINCENT, MN., 56755;  
 3-26 GENERAL USE FOR ELEVATOR;

602627 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP (C) + 12.0 WEATHER LT WIND-RAINY  
 PHASE 2 MAP NM1412 SITE 0005 TIME TAKEN 13/22/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.999 (48 59' 56") LONG 97.203 (97 12' 10") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ NO, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 1320 DISSOLVED OXYGEN (PPM) 2.1  
 WATER TEMP (C) + 12.0 VISIBILITY (M) CLEAR PH 7.0 LO-ION PAPER

TOTAL ALKALINITY (PPM) 600 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 592  
 APPEARANCE CLEAR DISCHARGE (L/M)  
 PRODUCING HORIZON QTL CONFIDENCE HIGH SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION COPPER  
 METERS FROM HEAD 72 WITH RESPECT TO PRESSURE TANK AFTER USE OTHER PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON (M) 4 CONFIDENCE OF PRODUCING DEPTH HIGH SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH (M) 4 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

REMARKS:

J-38 PEMBINA 7.5 MINUTE TOPO, 215257, GREAT NORTHERN RR DEPOT, NOYES, MN., SAMPLE FROM SINK IN WASHROOM, WELL IS 38M SWH OF  
 DEPOT:  
 3-26 PUBLIC SUPPLY;

602628 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP (C) + 12.7 WEATHER LT WIND-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0006 TIME TAKEN 14/22/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.962 (48 57'43") LONG 97.147 (97 8'49") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ NO ,RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 880 DISSOLVED OXYGEN (PPM) 1.5  
 WATER TEMP (C) + 11.3 VISIBILITY (M) CLEAR PH 7.0 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 440 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 435  
 APPEARANCE CLEAR DISCHARGE (L/M)  
 PRODUCING HORIZON QTL CONFIDENCE HIGH SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRIVE POINT POWER CLASSIFICATION ELECTRIC CASING GALVANIZED PIPE COMPOSITION GALVANIZED  
 METERS FROM HEAD 27 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON (M) 5 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH (M) 5 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 PEMBINA 7.5 MINUTE TOPO, MRS. WILLIAM WEBSTER, ST. VINCENT, MN., 56755, SAMPLE FROM HYDRANT ON SE CORNER OF HOUSE, WELL IS  
 22M SE OF HOUSE;  
 3-21 5M OF COPPER;

602629 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP (C) + 13.0 WEATHER LT WIND-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0007 TIME TAKEN 15/22/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.948 (48 56'52") LONG 96.905 (96 54'18") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ NO ,RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 520 DISSOLVED OXYGEN (PPM) 2.8  
 WATER TEMP (C) + 8.7 VISIBILITY (M) CLEAR PH 7.6 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 250 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 258  
 APPEARANCE CLEAR DISCHARGE (L/M) 1 L QD  
 PRODUCING HORIZON QPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION GALVANIZED  
 METERS FROM HEAD 2 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY FREQUENT

DEPTH TO PROD HORIZON(M) 14 CONFIDENCE OF PRODUCING DEPTH HIGH SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 18 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

REMARKS:

1-38 ORLEANS 7.5 MINUTE TOPO, 101665, RON HANSON, LANCASTER, MN., 56735, SAMPLE FROM PIPE ON WELL, WELL IS 24M SW OF CHICKEN BARN;

602630 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 13.9 WEATHER LT WIND-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0008 TIME TAKEN 16/22/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.989( 48 59'20") LONG 96.910( 96 54'36") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR U- -BK ODOR OTHER

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 1110 DISSOLVED OXYGEN(PPM) 2.2  
 WATER TEMP(C) + 13.2 VISIBILITY(M) CLEAR PH 7.1 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 440 P ALKALINITY(PPM) 5 M ALKALINITY(PPM) 440  
 APPEARANCE CLEAR DISCHARGE(L/M) PRODUCING HORIZON QPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING GALVANIZED PIPE COMPOSITION COPPER  
 METERS FROM HEAD 2 WITH RESPECT TO PRESSURE TANK AFTER USE STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON(M) 8 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH(M) 8 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 ORLEANS 7.5 MINUTE TOPO, MARK NELSON, LANCASTER, MN., 56735, SAMPLE FROM TAP ON PUMPHOUSE, WELL IS 7M SW OF HOUSE;  
 1-77 VERY REPUGNANT ODOR;  
 1-78 MARK NELSON & LANCASTER, MN., 56735;

602631 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 13.0 WEATHER LT WIND-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0009 TIME TAKEN 17/22/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.993( 48 59'34") LONG 96.824( 96 49'26") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ NO, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 585 DISSOLVED OXYGEN(PPM) 2.0  
 WATER TEMP(C) + 10.7 VISIBILITY(M) CLEAR PH 7.9 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 290 P ALKALINITY(PPM) 5 M ALKALINITY(PPM) 295  
 APPEARANCE CLEAR DISCHARGE(L/M) 19.00 PRODUCING HORIZON QPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION COPPER  
 METERS FROM HEAD 6 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON(M) 11 CONFIDENCE OF PRODUCING DEPTH HIGH SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 12 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

REMARKS:

1-38 HALLOCK NE 7.5 MINUTE TOPO, 131479, LEQ KRASKA, LANCASTER, MN., 56735, SAMPLE FROM HYDRANT ON NORTH SIDE OF HOUSE, WELL IS 3M NORTH OF HOUSE;

602632 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 13.0 WEATHER LT WIND-OVERCST  
 PHASE 2 MAP NM1412 SITE 0010 TIME TAKEN 18/22/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.982 (48 58'55") LONG 96.758 (96 45'28") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 695 DISSOLVED OXYGEN (PPM) 0.6  
 WATER TEMP (C) + 9.3 VISIBILITY (M) CLEAR PH 7.5 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 340 P ALKALINITY (PPM) 45 M ALKALINITY (PPM) 350  
 APPEARANCE CLEAR DISCHARGE (L/M) 38.00  
 PRODUCING HORIZON QPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION GALVANIZED  
 METERS FROM HEAD 19 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON (M) 25 CONFIDENCE OF PRODUCING DEPTH HIGH SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH (M) 27 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

REMARKS:

1-38 HALLOCK NE 7.5 MINUTE TOPO, 215260, KENNETH DEW, LANCASTER, MN., 56735, SAMPLE FROM HYDRANT ON WEST SIDE OF HOUSE, WELL IS  
 11M SE OF HOUSE;  
 1-78 KENNETH DEW & LANCASTER, MN., 56735;  
 3-21 8M OF COPPER;

602633 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 13.0 WEATHER -OVERCST  
 PHASE 2 MAP NM1412 SITE 0011 TIME TAKEN 19/22/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.960 (48 57'36") LONG 96.803 (96 48'10") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 800 DISSOLVED OXYGEN (PPM) 0.5  
 WATER TEMP (C) + 8.1 VISIBILITY (M) CLEAR PH 7.6 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 465 P ALKALINITY (PPM) 45 M ALKALINITY (PPM) 460  
 APPEARANCE CLEAR DISCHARGE (L/M) 76.00  
 PRODUCING HORIZON QPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION COPPER  
 METERS FROM HEAD 8 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON (M) 30 CONFIDENCE OF PRODUCING DEPTH HIGH SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH (M) 32 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

REMARKS:

1-38 HALLOCK NE 7.5 MINUTE TOPO, 215275, PAUL BORASKI, LANCASTER, MN., 56735, SAMPLE FROM HYDRANT ON NORTH SIDE OF HOUSE, WELL  
 IS 4M NW OF HOUSE;  
 1-78 PAUL BORASKI & LANCASTER, MN., 56735;  
 3-21 4M OF PLASTIC;

602634 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 13.2 WEATHER -OVERCST  
 PHASE 2 MAP NM1412 SITE 0012 TIME TAKEN 20/22/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.961 (48 57'39") LONG 96.859 (96 51'32") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ NO, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE	CONDUCTIVITY(MICROMHOS/CM)	950	DISSOLVED OXYGEN(PPM)	1.3
WATER TEMP(C) + 13.2	VISIBILITY(M)	CLEAR	PH 7.4 LO-ION PAPER	
TOTAL ALKALINITY(PPM) 400	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	400
APPEARANCE CLEAR	DISCHARGE(L/M)			
PRODUCING HORIZON QPG	CONFIDENCE HIGH		SOURCE GEOL. INFERENCE	

## WELL INFORMATION:

TYPE DRILLED	POWER CLASSIFICATION ELECTRIC	CASING OTHER	PIPE COMPOSITION PLASTIC
METERS FROM HEAD 123	WITH RESPECT TO PRESSURE TANK AFTER	USE HOUSE/STOCK	PUMPING FREQUENCY FREQUENT
DEPTH TO PROD HORIZON(M) 5	CONFIDENCE OF PRODUCING DEPTH HIGH	SOURCE OF PRODUCING INFORMATION	GEOL. INFERENCE
WELL DEPTH(M) 5	CONFIDENCE OF WELL DEPTH HIGH	SOURCE OF DEPTH INFORMATION	GEOL. INFERENCE

## REMARKS:

1-38 HALLOCK NE 7.5 MINUTE TOPO, HARVEY NIELSEN, LANCASTER, MN., 56735, SAMPLE FROM KITCHEN SINK, WELL IS 102M NORTH OF HOUSE;  
3-20 CEMENT CASING;

602635 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 9.0 WEATHER CALM-OVERCAST  
PHASE 2 MAP NM1412 SITE 0051 TIME TAKEN 09/22/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
LOCATION: LAT 48.543 (48 32'34") LONG 97.140 (97 8'24") CONTAMINANTS NONE  
SURFACE GEOL UNIT QAL RESULTS REQ NO ,RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE	CONDUCTIVITY(MICROMHOS/CM)	551	DISSOLVED OXYGEN(PPM)	2.3
WATER TEMP(C) + 11.7	VISIBILITY(M)	CLEAR	PH 6.5 LO-ION PAPER	
TOTAL ALKALINITY(PPM) 268	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	264
APPEARANCE CLEAR	DISCHARGE(L/M)			
PRODUCING HORIZON QTL	CONFIDENCE PROBABLE		SOURCE GEOL. INFERENCE	

## WELL INFORMATION:

TYPE DRILLED	POWER CLASSIFICATION ELECTRIC	CASING STEEL	PIPE COMPOSITION GALVANIZED
METERS FROM HEAD 20	WITH RESPECT TO PRESSURE TANK AFTER	USE HOUSEHOLD	PUMPING FREQUENCY FREQUENT
DEPTH TO PROD HORIZON(M) 2	CONFIDENCE OF PRODUCING DEPTH PROBABLE	SOURCE OF PRODUCING INFORMATION	GEOL. INFERENCE
WELL DEPTH(M) 3	CONFIDENCE OF WELL DEPTH PROBABLE	SOURCE OF DEPTH INFORMATION	OWNER

## REMARKS:

1-38 DRAYTON 7.5 MINUTE QUAD, ALBERT NORDSTROM, ROBBIN, MN, WELL 15M SOUTH OF HOUSE, SAMPLED KITCHEN;  
1-51 KREJ IS PRESENT;

602636 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 15.0 WEATHER LT WIND-OVERCAST  
PHASE 2 MAP NM1412 SITE 0052 TIME TAKEN 10/23/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
LOCATION: LAT 48.598 (48 35'52") LONG 97.062 (97 3'43") CONTAMINANTS NONE  
SURFACE GEOL UNIT QTL RESULTS REQ NO ,RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE	CONDUCTIVITY(MICROMHOS/CM)	891	DISSOLVED OXYGEN(PPM)	0.9
WATER TEMP(C) + 9.1	VISIBILITY(M)	CLEAR	PH 6.6 LO-ION PAPER	
TOTAL ALKALINITY(PPM) 742	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	726
APPEARANCE CLEAR	DISCHARGE(L/M)			
PRODUCING HORIZON QTL	CONFIDENCE HIGH		SOURCE GEOL. INFERENCE	

## WELL INFORMATION:

TYPE DUG	POWER CLASSIFICATION HAND	CASING OTHER	PIPE COMPOSITION STEEL
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METERS FROM HEAD	0	WITH RESPECT TO PRESSURE TANK	NONE	USE	NONE	PUMPING FREQUENCY	RARE
DEPTH TO PROD HORIZON(M)	5	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	OWNER		
WELL DEPTH(M)	6	CONFIDENCE OF WELL DEPTH	PROBABLE	SOURCE OF DEPTH INFORMATION	OWNER		

REMARKS:

1-38 DRAYTON SE 7.5 MINUTE QUAD, R. E. TUNGSETH, ROBBIN, MN, WELL 10M SOUTH OF GAS PUMPS, SAMPLED AT HEAD;  
 1-51 KRET IS PRESENT;  
 3-20 WOOD CASING;

602637 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 20.0 WEATHER CALM-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0053 TIME TAKEN 13/23/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.737( 48 44'13") LONG 97.074( 97 4'26") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ NO ,RELEASED 801031 SAMPLE: COLOR - -CL ODOR H2S

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	768	DISSOLVED OXYGEN(PPM)	2.1
WATER TEMP(C)	+ 12.0	VISIBILITY(M)	CLEAR	PH 7.3	LO-ION PAPER
TOTAL ALKALINITY(PPM)	376	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	368
APPEARANCE	MURKY	DISCHARGE(L/M)		SOURCE GEOL. INFERENCE	
PRODUCING HORIZON	OPG	CONFIDENCE	PROBABLE		

WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	HAND	CASING	STEEL	PIPE COMPOSITION	GALVANIZED
METERS FROM HEAD	0	WITH RESPECT TO PRESSURE TANK	NONE	USE	NONE	PUMPING FREQUENCY	RARE
DEPTH TO PROD HORIZON(M)	21	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	OWNER		
WELL DEPTH(M)	46	CONFIDENCE OF WELL DEPTH	HIGH	SOURCE OF DEPTH INFORMATION	OWNER		

REMARKS:

1-38 MATISON 75 MINUTE QUAD, HJALMER CARLSON, HALLOCK, MN, WELL 2M NORTH OF MACHINE SHED, SAMPLED AT HEAD;

602638 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 21.0 WEATHER CALM-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0054 TIME TAKEN 14/23/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.745( 48 44'42") LONG 97.003( 97 0'10") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ YES ,RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	1150	DISSOLVED OXYGEN(PPM)	2.1
WATER TEMP(C)	+ 12.4	VISIBILITY(M)	CLEAR	PH 7.8	LO-ION PAPER
TOTAL ALKALINITY(PPM)	268	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	266
APPEARANCE	CLEAR	DISCHARGE(L/M)		SOURCE GEOL. INFERENCE	
PRODUCING HORIZON	OPG	CONFIDENCE	PROBABLE		

WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	STEEL	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD	5	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSEHOLD	PUMPING FREQUENCY	CONSTANT
DEPTH TO PROD HORIZON(M)	24	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	GEOLOGICAL INFERENCE		
WELL DEPTH(M)	27	CONFIDENCE OF WELL DEPTH	HIGH	SOURCE OF DEPTH INFORMATION	OWNER		

REMARKS:

1-38 MATISON 7.5 MINUTE QUAD, RONALD JOHNSON, HALLOCK, MN, WELL 3M EAST OF PUMPHOUSE, SAMPLED PUMPHOUSE;  
 1-78 RONALD JOHNSON & RT 1 & HALLOCK, MN 56278;

602639 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 24.0 WEATHER CALM-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0055 TIME TAKEN 15/23/08/78 RELIEF LOW VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.745( 48 44'42") LONG 96.914( 96 54'50") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ YES ,RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 1182 DISSOLVED OXYGEN(PPM) 3.1  
 WATER TEMP(C) + 16.1 VISIBILITY(M) CLEAR PH 7.2 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 922 P ALKALINITY(PPM) 45 M ALKALINITY(PPM) 914  
 APPEARANCE CLEAR DISCHARGE(L/M) PROBABILE SOURCE GEOL. INFERENCE  
 PRODUCING HORIZON QTL CONFIDENCE

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING OTHER PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 20 WITH RESPECT TO PRESSURE TANK AFTER USE STOCK PUMPING FREQUENCY CONSTANT  
 DEPTH TO PROD HORIZON(M) 0 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 8 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION OWNER

## REMARKS:

1-38 KENNEDY 7.5 MINUTE QUAD, 215256, ROY JACOBSON, HALLOCK, MN, WELL 20M NORTH OF BARN, SAMPLED BARN;  
 1-78 ROY JACOBSON & RT 1 & HALLOCK, MN 56728;  
 3-20 CONCRETE CASING;

602640 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 26.0 WEATHER CALM-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0056 TIME TAKEN 16/23/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.728( 48 43'40") LONG 96.863( 96 51'46") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ YES ,RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 1178 DISSOLVED OXYGEN(PPM) 1.9  
 WATER TEMP(C) + 12.0 VISIBILITY(M) CLEAR PH 7.6 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 876 P ALKALINITY(PPM) 35 M ALKALINITY(PPM) 852  
 APPEARANCE CLEAR DISCHARGE(L/M) PROBABLE SOURCE GEOL. INFERENCE  
 PRODUCING HORIZON QTL CONFIDENCE

## WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION ELECTRIC CASING OTHER PIPE COMPOSITION GALVANIZED  
 METERS FROM HEAD 0 WITH RESPECT TO PRESSURE TANK AFTER USE STOCK PUMPING FREQUENCY CONSTANT  
 DEPTH TO PROD HORIZON(M) 0 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 5 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION OWNER

## REMARKS:

1-38 ENOK 7.5 MINUTE QUAD, 215255, JOHN H. ANDERSON, HALLOCK, MN, WELL IN PUMPHOUSE, SAMPLED PUMPHOUSE;  
 1-78 JOHN H. ANDERSON & RT 1 & HALLOCK, MN 56728;  
 3-20 CONCRETE CASING;

602641 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 14.0 WEATHER CALM-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0057 TIME TAKEN 09/24/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.646( 48 38'45") LONG 96.828( 96 49'40") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ YES ,RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 648 DISSOLVED OXYGEN(PPM) 3.3



WATER TEMP(C) + 11.5 VISIBILITY(M) CLEAR PH 6.7 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 218 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 200  
 APPEARANCE CLEAR DISCHARGE(L/M)  
 PRODUCING HORIZON QTL CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION STEEL  
 METERS FROM HEAD 0 WITH RESPECT TO PRESSURE TANK BEFORE USE MUNICIPAL PUMPING FREQUENCY CONSTANT  
 DEPTH TO PROD HORIZON(M) 5 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 7 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION OTHER

REMARKS:

1-38 ENOK 7.5 MINUTE QUAD, CITY OF KENNEDY, MN, WELL IN PUMPHOUSE 4 MILES EAST OF TOWN, SAMPLED AT PUMPHOUSE;  
 1-51 KRET IS PRESENT;  
 1-78 CITY OF KENNEDY & KENNEDY, MN 56733;  
 3-39 WATER DEPT. INFORMATION;

602642 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 16.0 WEATHER CALM-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0058 TIME TAKEN 10/24/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.607( 48 36'25") LONG 96.803( 96 48'10") CONTAMINANTS NONE SAMPLE: COLOR -CL ODOR NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ NO ,RELEASED 801031

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 653 DISSOLVED OXYGEN(PPM) 1.0  
 WATER TEMP(C) + 18.7 VISIBILITY(M) CLEAR PH 6.9 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 234 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 232  
 APPEARANCE CLEAR DISCHARGE(L/M)  
 PRODUCING HORIZON QPG CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY CONSTANT  
 DEPTH TO PROD HORIZON(M) 9 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 11 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 KENNEDY SE 7.5 MINUTE QUAD, KITTSOON MARSHALL RURAL WATER SYSTEM, WELL 2.3 MILES NORTH OF CO. RD 11 ON CO. RD. 5, SAMPLED  
 AT TJENHUM FARM;  
 1-51 KRET IS PRESENT;  
 3-22 3,70QM FROM WELL;

602643 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 18.0 WEATHER CALM-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0059 TIME TAKEN 11/24/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.537( 48 32'13") LONG 96.805( 96 48'18") CONTAMINANTS NONE SAMPLE: COLOR -CL ODOR NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ YES ,RELEASED 801031

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 519 DISSOLVED OXYGEN(PPM) 1.0  
 WATER TEMP(C) + 13.1 VISIBILITY(M) CLEAR PH 7.3 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 242 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 244  
 APPEARANCE CLEAR DISCHARGE(L/M)  
 PRODUCING HORIZON QPG CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE	DUG	POWER CLASSIFICATION	ELECTRIC	CASING	STEEL	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD	10	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSE/STOCK	PUMPING FREQUENCY	CONSTANT
DEPTH TO PROD HORIZON(M)	9	CONFIDENCE OF PRODUCING DEPTH	POSSIBLE	SOURCE OF PRODUCING INFORMATION	GEOLOGICAL INFERENCE		
WELL DEPTH(M)	12	CONFIDENCE OF WELL DEPTH	PROBABLE	SOURCE OF DEPTH INFORMATION	OWNER		

REMARKS:

1-38 KENNEDY SE 7.5 MINUTE QUAD, JOHN THORKILDSON, STEPHEN, MN, WELL 20M NORTH OF BARN, SAMPLED HOSE ON SOUTH SIDE OF OLD HOUSE;  
 1-51 KRET IS PRESENT;  
 1-78 JOHN THORKILDSON & STEPHEN, MN 56757;

602644	TYPE WELL WATER	REPLICATE	SAMPLER DRS	AIR TEMP(C)	+ 21.0	WEATHER	CALM-PT CLDY
	PHASE 2	MAP NM1412	SITE 0060	TIME TAKEN	12/24/08/78	RELIEF	FLAT
	LOCATION: LAT	48.650 (48 39' 0")	LONG	96.802 (96 48' 7")	CONTAMINANTS	NONE	VEGETATION
	SURFACE GEOL UNIT	QTL	RESULTS REQ	YES	RELEASED	801031	SAMPLE: COLOR
							-CL
							ODOR
							NONE

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	756	DISSOLVED OXYGEN(PPM)	0.1
WATER TEMP(C)	+ 14.1	VISIBILITY(M)	CLEAR	PH	7.4
TOTAL ALKALINITY(PPM)	306	P ALKALINITY(PPM)	<5	LO-JON PAPER	
APPEARANCE	CLEAR	DISCHARGE(L/M)		M ALKALINITY(PPM)	320
PRODUCING HORIZON	QPG	CONFIDENCE	PROBABLE	SOURCE	GEOLOGICAL INFERENCE

WELL INFORMATION:

TYPE	DUG	POWER CLASSIFICATION	ELECTRIC	CASING	OTHER	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD	50	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSE/STOCK	PUMPING FREQUENCY	CONSTANT
DEPTH TO PROD HORIZON(M)	8	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	GEOLOGICAL INFERENCE		
WELL DEPTH(M)	11	CONFIDENCE OF WELL DEPTH	HIGH	SOURCE OF DEPTH INFORMATION	OWNER		

REMARKS:

1-38 ENOK 7.5 MINUTE QUAD, ALTON JOHNSON, ENOK, MN, WELL 10M WEST OF BARN, SAMPLED KITCHEN TAP;  
 1-51 KRET IS PRESENT;  
 1-78 NEAL A JOHNSON & RR & KENNEDY, MN 56733;  
 3-20 CONCRETE CASING;

602645	TYPE WELL WATER	REPLICATE	SAMPLER DRS	AIR TEMP(C)	+ 21.0	WEATHER	CALM-PT CLDY
	PHASE 2	MAP NM1412	SITE 0061	TIME TAKEN	13/24/08/78	RELIEF	FLAT
	LOCATION: LAT	48.675 (48 40' 30")	LONG	96.802 (96 48' 7")	CONTAMINANTS	NONE	VEGETATION
	SURFACE GEOL UNIT	QTL	RESULTS REQ	YES	RELEASED	801031	SAMPLE: COLOR
							-CL
							ODOR
							NONE

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	1149	DISSOLVED OXYGEN(PPM)	1.3
WATER TEMP(C)	+ 14.2	VISIBILITY(M)	CLEAR	PH	6.9
TOTAL ALKALINITY(PPM)	488	P ALKALINITY(PPM)	<5	LO-JON PAPER	
APPEARANCE	CLEAR	DISCHARGE(L/M)		M ALKALINITY(PPM)	500
PRODUCING HORIZON	QPG	CONFIDENCE	PROBABLE	SOURCE	GEOLOGICAL INFERENCE

WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	STEEL	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD	1	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSEHOLD	PUMPING FREQUENCY	CONSTANT
DEPTH TO PROD HORIZON(M)	45	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	GEOLOGICAL INFERENCE		
WELL DEPTH(M)	47	CONFIDENCE OF WELL DEPTH	HIGH	SOURCE OF DEPTH INFORMATION	OWNER		

## REMARKS:

1-38 ENOK 7.5 MINUTE QUAD, 215217, ARCHIE LUNDELL, KENNEDY, MN, WELL IN CENTER OF DRIVEWAY TURNAROUND, SAMPLED HYDRANT AT HEAD;  
 1-51 KRET IS PRESENT;  
 1-78 ARCHIE LUNDELL & KENNEDY, MN. 56733;

602646 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 26.0 WEATHER CALM-CLEAR  
 PHASE 2 MAP NM1412 SITE 0062 TIME TAKEN 14/24/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.726 (48 43'33") LONG 96.604 (96 36'14") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL - -ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 401 DISSOLVED OXYGEN(PPM) 0.6  
 WATER TEMP(C) + 15.8 VISIBILITY(M) CLEAR PH 7.9 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 280 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 274  
 APPEARANCE CLEAR DISCHARGE(L/M)  
 PRODUCING HORIZON QPG CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 55 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON(M) 12 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 22 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION OWNER

## REMARKS:

1-38 KARLSTAD 15 MINUTE QUAD, 215269, WELL AT CAMPSITE 2 EAST CAMPGROUND, SAMPLED FOUNTAIN, LAKE BRONSON STATE PARK;  
 1-51 KRET IS PRESENT;  
 1-78 LAKE BRONSON STATE PARK & LAKE BRONSON, MN 56734;

602647 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 13.0 WEATHER LT WIND-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0013 TIME TAKEN 09/23/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.923 (48 55'22") LONG 96.857 (96 51'25") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ NO, RELEASED 801031 SAMPLE: COLOR - -CL - -ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 915 DISSOLVED OXYGEN(PPM) 1.8  
 WATER TEMP(C) + 12.8 VISIBILITY(M) CLEAR PH 6.9 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 450 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 450  
 APPEARANCE CLEAR DISCHARGE(L/M)  
 PRODUCING HORIZON QPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

## WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION ELECTRIC CASING OTHER PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 24 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON(M) 4 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH(M) 4 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

## REMARKS:

1-38 HALLOCK NE 7.5 MINUTE TQPD, MORRIS MURRAY, LANCASTER, MN 56735, SAMPLE FROM HYDRANT ON SE CORNER OF HOUSE, WELL IS 13M  
 EAST OF NE CORNER OF HOUSE;  
 3-20 CEMENT CASING;  
 3-21 10M OF COPPER;

602648 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 13.4 WEATHER LT WIND-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0014 TIME TAKEN 10/23/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.918( 48 55' 4") LONG 96.792( 96 47' 31") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ YES ,RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 955 DISSOLVED OXYGEN(PPM) 8.7  
 WATER TEMP(C) + 8.9 VISIBILITY(M) CLEAR PH 7.1 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 460 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 462  
 APPEARANCE CLEAR DISCHARGE(L/M) CONFIDENCE HIGH SOURCE GEOL. INFERENCE  
 PRODUCING HORIZON QTL

WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION HAND CASING OTHER PIPE COMPOSITION GALVANIZED  
 METERS FROM HEAD 0 WITH RESPECT TO PRESSURE TANK BEFORE USE HOUSEHOLD PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON(M) 4 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH(M) 4 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 HALLOCK NE 7.5 MINUTE TOPO, PALMER RUNDQUIST, LANCASTER, MN., 56735, SAMPLE FROM PUMP ON WELL, WELL IS 21M NORTH OF HOUSE;  
 1-78 PALMER RUNDQUIST & LANCASTER, MN., 56735;  
 3-20 BRICK CASING;

602649 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 13.9 WEATHER LT WIND-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0015 TIME TAKEN 11/23/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.903( 48 54' 10") LONG 96.728( 96 43' 40") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ NO ,RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 590 DISSOLVED OXYGEN(PPM) 1.1  
 WATER TEMP(C) + 12.0 VISIBILITY(M) CLEAR PH 7.3 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 268 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 265  
 APPEARANCE CLEAR DISCHARGE(L/M) CONFIDENCE HIGH SOURCE GEOL. INFERENCE  
 PRODUCING HORIZON QPG

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 11 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON(M) 25 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH(M) 26 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 SKULL LAKE 7.5 MINUTE TOPO, JOE P. BORNSKI, LANCASTER, MN., 56735, SAMPLE FROM HYDRANT ON NORTH SIDE OF HOUSE, WELL IS 5M  
 SE OF HOUSE;  
 3-21 6M OF COPPER;

602650 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 14.3 WEATHER LT WIND-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0016 TIME TAKEN 12/23/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.959( 48 57' 32") LONG 96.738( 96 44' 16") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ YES ,RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 710 DISSOLVED OXYGEN(PPM) 4.1

WATER TEMP(C) + 13.8 VISIBILITY(M) CLEAR PH 7.3 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 280 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 270  
 APPEARANCE CLEAR DISCHARGE(L/M)  
 PRODUCING HORIZON QTL CONFIDENCE HIGH SOURCE GEOL. INFERENCE

WELL INFORMATION:  
 TYPE DUG POWER CLASSIFICATION ELECTRIC CASING OTHER PIPE COMPOSITION GALVANIZED  
 METERS FROM HEAD 3 WITH RESPECT TO PRESSURE TANK AFTER USE STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON(M) 3 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH(M) 3 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:  
 1-38 SKULL LAKE 7.5 MINUTE TOPO, RAYMOND MASLOSKI, LANCASTER, MN., 56735, SAMPLE FROM AUTOMATIC WATERER BEHIND PUMPHOUSE, WELL  
 IS 3M WEST OF METAL SHED;  
 1-78 RAYMOND MASLOSKI & LANCASTER, MN., 56735;  
 3-20 BRICK CASING;

602651 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 14.6 WEATHER LT WIND-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0017 TIME TAKEN 13/23/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.991( 48 59'27") LONG 96.717( 96 43' 1") CONTAMINANTS NONE SAMPLE: COLOR - -CL ODOR NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ NO , RELEASED 801031

GENERAL WATER INFORMATION:  
 TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 650 DISSOLVED OXYGEN(PPM) 3.5  
 WATER TEMP(C) + 12.8 VISIBILITY(M) CLEAR PH 7.2 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 265 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 260  
 APPEARANCE CLEAR DISCHARGE(L/M)  
 PRODUCING HORIZON QTL CONFIDENCE HIGH SOURCE GEOL. INFERENCE

WELL INFORMATION:  
 TYPE DUG POWER CLASSIFICATION ELECTRIC CASING OTHER PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 15 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON(M) 5 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 5 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:  
 1-38 SKULL LAKE 7.5 MINUTE TOPO, JAY CUDMORE, LANCASTER, MN., 56735, SAMPLE FROM OUTSIDE SINK 9M SE OF HOUSE, WELL IS 6M SE OF  
 HOUSE;  
 3-20 CEMENT CASING;

602652 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 14.7 WEATHER LT WIND-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0018 TIME TAKEN 14/23/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.993( 48 59'34") LONG 96.640( 96 38'52") CONTAMINANTS NONE SAMPLE: COLOR - -CL ODOR NONE  
 SURFACE GEOL UNIT DPG RESULTS REQ YES , RELEASED 801031

GENERAL WATER INFORMATION:  
 TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 690 DISSOLVED OXYGEN(PPM) 1.8  
 WATER TEMP(C) + 8.9 VISIBILITY(M) CLEAR PH 7.1 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 395 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 390  
 APPEARANCE CLEAR DISCHARGE(L/M) 303.00  
 PRODUCING HORIZON DPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	STEEL	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD	0	WITH RESPECT TO PRESSURE TANK	NONE	USE	STOCK	PUMPING FREQUENCY	FREQUENT
DEPTH TO PROD HORIZON(M)	27	CONFIDENCE OF PRODUCING DEPTH	HIGH	SOURCE OF PRODUCING INFORMATION	GEOLOGICAL INFERENCE		
WELL DEPTH(M)	32	CONFIDENCE OF WELL DEPTH	HIGH	SOURCE OF DEPTH INFORMATION	GEOLOGICAL INFERENCE		

REMARKS:

1-38 SKULL LAKE 7.5 MINUTE TOPO, 131499, LEWIS LARTER, LANCASTER, MN., 56735, SAMPLE FROM PUMP ON WELL, WELL IS 23M NNW OF HOUSE;  
1-78 LEWIS LARTER & LANCASTER, MN., 56735;

602653	TYPE WELL WATER	REPLICATE	SAMPLER GJG	AIR TEMP(C)	+ 15.0	WEATHER	LT WIND-OVERCAST
	PHASE 2	MAP NM1412	SITE 0019	TIME TAKEN	15/23/08/78	RELIEF	FLAT
	LOCATION: LAT	48.951( 48 57' 3")	LONG	96.644( 96 38' 38")	CONTAMINANTS	NONE	
	SURFACE GEOL UNIT	OPG	RESULTS REQ NO	RELEASED	801031	SAMPLE: COLOR	-CL - QDOR NONE

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	760	DISSOLVED OXYGEN(PPM)	1.0
WATER TEMP(C)	+ 10.1	VISIBILITY(M)	CLEAR	PH	7.6
TOTAL ALKALINITY(PPM)	270	P ALKALINITY(PPM)	45	M ALKALINITY(PPM)	260
APPEARANCE	CLEAR	DISCHARGE(L/M)	30.00	SOURCE	GEOLOGICAL INFERENCE
PRODUCING HORIZON	OPG	CONFIDENCE	HIGH		

WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	STEEL	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD	3	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSE/STOCK	PUMPING FREQUENCY	FREQUENT
DEPTH TO PROD HORIZON(M)	53	CONFIDENCE OF PRODUCING DEPTH	HIGH	SOURCE OF PRODUCING INFORMATION	GEOLOGICAL INFERENCE		
WELL DEPTH(M)	55	CONFIDENCE OF WELL DEPTH	HIGH	SOURCE OF DEPTH INFORMATION	GEOLOGICAL INFERENCE		

REMARKS:

1-38 SKULL LAKE 7.5 MINUTE TOPO, 215239, DARREL STEIEN, LANCASTER, MN., 56735, SAMPLE FROM HYDRANT ON PUMPHOUSE, WELL IS 17M EAST OF HOUSE;

602654	TYPE WELL WATER	REPLICATE	SAMPLER GJG	AIR TEMP(C)	+ 15.2	WEATHER	LT WIND-OVERCAST
	PHASE 2	MAP NM1412	SITE 0020	TIME TAKEN	16/23/08/78	RELIEF	FLAT
	LOCATION: LAT	48.917( 48 55' 1")	LONG	96.623( 96 37' 22")	CONTAMINANTS	NONE	
	SURFACE GEOL UNIT	OPG	RESULTS REQ YES	RELEASED	801031	SAMPLE: COLOR	-CL - QDOR NONE

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	590	DISSOLVED OXYGEN(PPM)	3.6
WATER TEMP(C)	+ 10.8	VISIBILITY(M)	CLEAR	PH	7.7
TOTAL ALKALINITY(PPM)	285	P ALKALINITY(PPM)	45	M ALKALINITY(PPM)	275
APPEARANCE	CLEAR	DISCHARGE(L/M)	14.00	SOURCE	GEOLOGICAL INFERENCE
PRODUCING HORIZON	OPG	CONFIDENCE	HIGH		

WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	STEEL	PIPE COMPOSITION	GALVANIZED
METERS FROM HEAD	4	WITH RESPECT TO PRESSURE TANK	AFTER	USE	STOCK	PUMPING FREQUENCY	FREQUENT
DEPTH TO PROD HORIZON(M)	34	CONFIDENCE OF PRODUCING DEPTH	HIGH	SOURCE OF PRODUCING INFORMATION	GEOLOGICAL INFERENCE		
WELL DEPTH(M)	38	CONFIDENCE OF WELL DEPTH	HIGH	SOURCE OF DEPTH INFORMATION	GEOLOGICAL INFERENCE		

REMARKS:

1-38 SKULL LAKE NE 7.5 MINUTE TOPO, 215231, BUD LARTER, LANCASTER, MN., 56735, SAMPLE FROM HYDRANT OVER WELL, WELL IS 19M SOUTH OF HOUSE;

1-78 BUD LARTER &amp; LANCASTER, MN., 56735;

602656 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 15.3 WEATHER LT WIND-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0021 TIME TAKEN 17/23/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.929( 48 55'44") LONG 96.580( 96 34'48") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 580 DISSOLVED OXYGEN(PPM) 1.8  
 WATER TEMP(C) + 9.5 VISIBILITY(M) CLEAR PH 7.8 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 250 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 255  
 APPEARANCE CLEAR DISCHARGE(L/M) 379.00  
 PRODUCING HORIZON QPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 1 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON(M) 27 CONFIDENCE OF PRODUCING DEPTH HIGH SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 35 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

## REMARKS:

1-38 SKULL LAKE NE 7.5 MINUTE TOPO, 215266, RAYMOND CLINTON, LANCASTER, MN., 56735, SAMPLE FROM HYDRANT ON PUMPHOUSE, WELL IS  
 17M ESE OF HOUSE;  
 1-78 RAYMOND CLINTON & LANCASTER, MN., 56735;

602657 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 15.9 WEATHER LT WIND-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0022 TIME TAKEN 18/23/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.917( 48 55' 1") LONG 96.525( 96 31'30") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 580 DISSOLVED OXYGEN(PPM) 1.8  
 WATER TEMP(C) + 8.2 VISIBILITY(M) CLEAR PH 7.7 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 255 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 260  
 APPEARANCE CLEAR DISCHARGE(L/M) 87.00  
 PRODUCING HORIZON QPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 2 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON(M) 23 CONFIDENCE OF PRODUCING DEPTH HIGH SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 23 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

## REMARKS:

1-38 SKULL LAKE NE 7.5 MINUTE TOPO, CLAUD WELESKI, LANCASTER, MN., 56735, SAMPLE FROM HYDRANT ON PUMPHOUSE, WELL IS 43M NW OF  
 HOUSE;  
 1-78 CLAUD WELESKI & LANCASTER, MN., 56735;

602658 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 16.2 WEATHER LT WIND-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0023 TIME TAKEN 19/23/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.987( 48 59'13") LONG 96.519( 96 31' 8") CONTAMINANTS NONE

SURFACE GEOL UNIT QPG RESULTS REQ NO ,RELEASED 801031

SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE		CONDUCTIVITY(MICROMHOS/CM)	560	DISSOLVED OXYGEN(PPM)	3.2
WATER TEMP(C)	+ 8.3	VISIBILITY(M)	CLEAR	PH 7.7 LO-ION PAPER	
TOTAL ALKALINITY(PPM)	290	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	290
APPEARANCE	CLEAR	DISCHARGE(L/M)	379.00		
PRODUCING HORIZON	QPG	CONFIDENCE	HIGH	SOURCE GEOL. INFERENCE	

## WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	STEEL	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD	48	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSE/STOCK	PUMPING FREQUENCY	FREQUENT
DEPTH TO PROD HORIZON(M)	48	CONFIDENCE OF PRODUCING DEPTH	POSSIBLE	SOURCE OF PRODUCING INFORMATION		OWNER	
WELL DEPTH(M)	48	CONFIDENCE OF WELL DEPTH	POSSIBLE	SOURCE OF DEPTH INFORMATION		OWNER	

## REMARKS:

1-38 SKULL LAKE NE 7.5 MINUTE TOPO, JOHN BORASKI, LANCASTER, MN., 56735, SAMPLE FROM HYDRANT ON EAST SIDE OF BARN, WELL IS 47M SOUTH OF BARN.

602659 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 26.0 WEATHER CALM-CLEAR  
 PHASE 2 MAP NM1412 SITE 0063 TIME TAKEN 15/24/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.731( 48 43'51") LONG 96.650( 96 39' 0") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ NO ,RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE		CONDUCTIVITY(MICROMHOS/CM)	558	DISSOLVED OXYGEN(PPM)	0.2
WATER TEMP(C)	+ 11.4	VISIBILITY(M)	CLEAR	PH 7.5 LO-ION PAPER	
TOTAL ALKALINITY(PPM)	420	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	434
APPEARANCE	CLEAR	DISCHARGE(L/M)			
PRODUCING HORIZON	QPG	CONFIDENCE	PROBABLE	SOURCE GEOL. INFERENCE	

## WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	STEEL	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD	15	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSEHOLD	PUMPING FREQUENCY	CONSTANT
DEPTH TO PROD HORIZON(M)	20	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION		GEOL. INFERENCE	
WELL DEPTH(M)	22	CONFIDENCE OF WELL DEPTH	HIGH	SOURCE OF DEPTH INFORMATION		OWNER	

## REMARKS:

1-38 KARLSTAD 15 MINUTE QUAD, 215250, LAWRENCE LIND, LAKE BRONSON, MN, WELL 10M EAST OF HOUSE, SAMPLED OUTSIDE ON SOUTH SIDE OF HOUSE.  
 1-51 KRET IS PRESENT;

602660 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 21.0 WEATHER CALM-CLEAR  
 PHASE 2 MAP NM1412 SITE 0064 TIME TAKEN 16/24/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.696( 48 41'45") LONG 96.656( 96 39'21") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ YES ,RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE		CONDUCTIVITY(MICROMHOS/CM)	896	DISSOLVED OXYGEN(PPM)	1.5
WATER TEMP(C)	+ 11.6	VISIBILITY(M)	CLEAR	PH 8.1 LO-ION PAPER	
TOTAL ALKALINITY(PPM)	230	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	234
APPEARANCE	CLEAR	DISCHARGE(L/M)			
PRODUCING HORIZON	QPG	CONFIDENCE	PROBABLE	SOURCE GEOL. INFERENCE	



WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	STEEL	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD	10	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSE/STOCK	PUMPING FREQUENCY	CONSTANT
DEPTH TO PROD HORIZON(M)	55	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	GEOLOGICAL INFERENCE		
WELL DEPTH(M)	58	CONFIDENCE OF WELL DEPTH	HIGH	SOURCE OF DEPTH INFORMATION	OWNER		

REMARKS:

1-38 KARLSTAD 15 MINUTE QUAD, 101692, ROGER THOMPSON, KENNEDY, MN, WELL 10M SOUTH OF HOUSE, SAMPLED OUTSIDE ON SOUTH SIDE OF HOUSE;  
 1-51 KRET IS PRESENT;  
 1-78 ROGER THOMPSON & LAKE BRONSON, MN 56734;

602661	TYPE WELL WATER	REPLICATE	SAMPLER DRS	AIR TEMP(C)	+ 21.0	WEATHER	CALM-CLEAR
	PHASE 2	MAP NM1412	SITE 0065	TIME TAKEN	16/24/08/78	RELIEF	FLAT
	LOCATION: LAT	48.661 (48 39'39")	LONG	96.712 (96 42'43")		CONTAMINANTS	NONE
	SURFACE GEOL UNIT	OPG	RESULTS REQ NO	RELEASED	801031		
						SAMPLE COLOR	-CL - ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	1158	DISSOLVED OXYGEN(PPM)	1.8
WATER TEMP(C)	+ 14.7	VISIBILITY(M)	CLEAR	PH	8.0 LO-ION PAPER
TOTAL ALKALINITY(PPM)	178	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	180
APPEARANCE	CLEAR	DISCHARGE(L/M)		SOURCE	GEOLOGICAL INFERENCE
PRODUCING HORIZON	OPG	CONFIDENCE	PROBABLE		

WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	STEEL	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD	30	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSE/STOCK	PUMPING FREQUENCY	CONSTANT
DEPTH TO PROD HORIZON(M)	55	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	GEOLOGICAL INFERENCE		
WELL DEPTH(M)	61	CONFIDENCE OF WELL DEPTH	HIGH	SOURCE OF DEPTH INFORMATION	OWNER		

REMARKS:

1-38 KARLSTAD 15 MINUTE QUAD, 215214, HARVEY BAKER, LAKE BRONSON, MN, WELL IN PUMPHOUSE, SAMPLED EAST SIDE OF NEW HOUSE;  
 1-51 KRET IS PRESENT;

602662	TYPE WELL WATER	REPLICATE	SAMPLER DRS	AIR TEMP(C)	+ 21.0	WEATHER	CALM-CLEAR
	PHASE 2	MAP NM1412	SITE 0066	TIME TAKEN	17/24/08/78	RELIEF	FLAT
	LOCATION: LAT	48.715 (48 42'54")	LONG	96.716 (96 42'57")		CONTAMINANTS	NONE
	SURFACE GEOL UNIT	OPG	RESULTS REQ YES	RELEASED	801031		
						SAMPLE COLOR	-CL - ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	687	DISSOLVED OXYGEN(PPM)	3.3
WATER TEMP(C)	+ 16.5	VISIBILITY(M)	CLEAR	PH	7.7 LO-ION PAPER
TOTAL ALKALINITY(PPM)	376	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	376
APPEARANCE	CLEAR	DISCHARGE(L/M)		SOURCE	GEOLOGICAL INFERENCE
PRODUCING HORIZON	OPG	CONFIDENCE	PROBABLE		

WELL INFORMATION:

TYPE	DUG	POWER CLASSIFICATION	ELECTRIC	CASING	OTHER	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD	50	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSEHOLD	PUMPING FREQUENCY	FREQUENT
DEPTH TO PROD HORIZON(M)	3	CONFIDENCE OF PRODUCING DEPTH	POSSIBLE	SOURCE OF PRODUCING INFORMATION	GEOLOGICAL INFERENCE		
WELL DEPTH(M)	5	CONFIDENCE OF WELL DEPTH	HIGH	SOURCE OF DEPTH INFORMATION	OWNER		

REMARKS:

1-38 KARLSTAD 15 MINUTE QUAD, CLIFFORD JOHNSON, LAKE BRONSON, MN, WELL 50M SOUTH OF HOUSE, SAMPLED EAST SIDE OF HOUSE;  
 1-51 KRET IS PRESENT;  
 1-78 CLIFFORD JOHNSON & RT 2 96 & LAKE BRONSON, MN, 56734;  
 3-20 CONCRETE CASING;

602663 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 20.0 WEATHER CALM-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0067 TIME TAKEN 10/25/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.558 (48 33'28") LONG 96.416 (96 24'57") CONTAMINANTS NONE  
 SURFACE GEOL UNIT OPG RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 679 DISSOLVED OXYGEN(PPM) 1.6  
 WATER TEMP(C) + 13.2 VISIBILITY(M) CLEAR PH 6.3 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 288 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 280  
 APPEARANCE CLEAR DISCHARGE(L/M)  
 PRODUCING HORIZON OPG CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 25 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY CONSTANT  
 DEPTH TO PROD HORIZON(M) 103 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 106 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION OWNER

## REMARKS:

1-38 PELAN 15 MINUTE QUAD, 215278, HARLEY HOLLIN, KARLSTAD, MN, WELL IN PUMP HOUSE, SAMPLED IN BARN;  
 1-51 KRET IS PRESENT;  
 1-78 HARLEY HOLLIN & RT 2 & KARLSTAD, MN 56732;

602664 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 21.0 WEATHER CALM-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0068 TIME TAKEN 11/25/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.560 (48 33'36") LONG 96.505 (96 30'18") CONTAMINANTS NONE  
 SURFACE GEOL UNIT OPG RESULTS REQ NO, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 300 DISSOLVED OXYGEN(PPM) 2.2  
 WATER TEMP(C) + 10.0 VISIBILITY(M) CLEAR PH 7.2 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 252 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 254  
 APPEARANCE CLEAR DISCHARGE(L/M)  
 PRODUCING HORIZON OPG CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 25 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY CONSTANT  
 DEPTH TO PROD HORIZON(M) 31 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 34 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION OWNER

## REMARKS:

1-38 KARLSTAD 15 MINUTE QUAD, 215242, EVERETT ENGLUND, KARLSTAD, MN, WELL 25M NW OF MILK ROOM, SAMPLED NORTH SIDE OF MILK BARN;  
 1-51 KRET IS PRESENT;

602665 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 22.0 WEATHER CALM-PT CLDY

PHASE 2 MAP NM1412 SITE 0069 TIME TAKEN 12/25/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.543 (48 32'34") LONG 96.565 (96 33'54") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ NO , RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 969 DISSOLVED OXYGEN (PPM) L.L.  
 WATER TEMP (C) + 17.4 VISIBILITY (M) CLEAR PH 6.7 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 772 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 784  
 APPEARANCE CLEAR DISCHARGE (L/M)  
 PRODUCING HORIZON QPG CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

## WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION ELECTRIC CASING OTHER PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 25 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON (M) 2 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH (M) 3 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION OWNER

## REMARKS:

1-38 KARLSTAD 15 MINUTE QUAD, CLARENCE HAUGLAND, KARLSTAD, MN, WELL 25M SE OF HOUSE, SAMPLED KITCHEN;  
 1-51 KRET IS PRESENT;  
 3-20 CONCRETE CASING;

602666 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP (C) + 23.0 WEATHER CALM-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0070 TIME TAKEN 13/25/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.559 (48 33'32") LONG 96.633 (96 37'58") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ YES , RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 574 DISSOLVED OXYGEN (PPM) 2.0  
 WATER TEMP (C) + 21.4 VISIBILITY (M) CLEAR PH 7.9 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 336 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 340  
 APPEARANCE CLEAR DISCHARGE (L/M)  
 PRODUCING HORIZON QPG CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 25 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY CONSTANT  
 DEPTH TO PROD HORIZON (M) 28 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH (M) 32 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION OWNER

## REMARKS:

1-38 KARLSTAD 15 MINUTE QUAD, 101669, ED SANG, KARLSTAD, MN, WELL 15M NORTH OF HOUSE, SAMPLED MILK ROOM;  
 1-51 KRET IS PRESENT;  
 1-78 ED SANG & KARLSTAD, MN 56732;

602667 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP (C) + 24.0 WEATHER CALM-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0071 TIME TAKEN 14/25/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.539 (48 32'20") LONG 96.731 (96 43'51") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ NO , RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 1088 DISSOLVED OXYGEN (PPM) 2.5  
 WATER TEMP (C) + 19.3 VISIBILITY (M) CLEAR PH 7.7 LO-ION PAPER

TOTAL ALKALINITY (PPM) 626 P ALKALINITY (PPM) 45 M ALKALINITY (PPM) 640  
 APPEARANCE CLEAR DISCHARGE (L/M)  
 PRODUCING HORIZON QTL CONFIDENCE HIGH SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION ELECTRIC CASING OTHER PIPE COMPOSITION OTHER  
 METERS FROM HEAD 0 WITH RESPECT TO PRESSURE TANK NONE USE OTHER PUMPING FREQUENCY RARE  
 DEPTH TO PROD HORIZON (M) 6 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH (M) 9 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 KARLSTAD 15 MIN QUAD, ISAK ISAKSON, KARLSTAD, MN WELL 15M NORTHWEST OF HOUSE SAMPLED AT HEAD.  
 1-51 KRET IS PRESENT;  
 3-20 CONCRETE CASING;  
 3-21 NO PIPE;  
 3-26 GARDEN ONLY;

602668 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP (C) + 28.0 WEATHER CALM-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0072 TIME TAKEN 14/25/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.584 (48 35' 2") LONG 96.694 (96 41' 38") CONTAMINANTS NONE SAMPLE: COLOR - -CL ODOR NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 798 DISSOLVED OXYGEN (PPM) 2.2  
 WATER TEMP (C) + 12.7 VISIBILITY (M) CLEAR PH 8.2 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 276 P ALKALINITY (PPM) 45 M ALKALINITY (PPM) 284  
 APPEARANCE CLEAR DISCHARGE (L/M)  
 PRODUCING HORIZON QPG CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ARTESIAN CASING STEEL PIPE COMPOSITION STEEL  
 METERS FROM HEAD 0 WITH RESPECT TO PRESSURE TANK NONE USE HOUSEHOLD PUMPING FREQUENCY CONSTANT  
 DEPTH TO PROD HORIZON (M) 31 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH (M) 34 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 KARLSTAD 15 MINUTE 15 MINUTE QUAD, LLOYD JOHNSON, KARLSTAD, MN, WELL 1-51 KRET IS PRESENT;  
 1-78 LLOYD JOHNSON & KARLSTAD, MN 56732;

602669 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP (C) + 27.0 WEATHER CALM-CLEAR  
 PHASE 2 MAP NM1412 SITE 0073 TIME TAKEN 15/25/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.629 (48 37' 44") LONG 96.732 (96 43' 55") CONTAMINANTS NONE SAMPLE: COLOR - -CL ODOR NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 854 DISSOLVED OXYGEN (PPM) 4.6  
 WATER TEMP (C) + 25.2 VISIBILITY (M) CLEAR PH 7.6 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 446 P ALKALINITY (PPM) 45 M ALKALINITY (PPM) 454  
 APPEARANCE CLEAR DISCHARGE (L/M)  
 PRODUCING HORIZON QTL CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION ELECTRIC CASING OTHER PIPE COMPOSITION COPPER

METERS FROM HEAD	5	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSEHOLD	PUMPING FREQUENCY	CONSTANT
DEPTH TO PROD HORIZON(M)	4	CONFIDENCE OF PRODUCING DEPTH	POSSIBLE	SOURCE OF PRODUCING INFORMATION	GEOLOGICAL INFERENCE		
WELL DEPTH(M)	6	CONFIDENCE OF WELL DEPTH	HIGH	SOURCE OF DEPTH INFORMATION	OWNER		

REMARKS:

1-38 KARLSTAD 15 MINUTE QUAD, GRANT LINDHOLM, KENNEDY, MN, WELL UNDER HOUSE, SAMPLED SOUTH SIDE OF HOUSE;  
 1-51 KRET IS PRESENT;  
 1-78 GRANT LINDHOLM & KENNEDY, MN 56733;  
 3-20 CONCRETE CASING;

602670	TYPE WELL WATER	REPLICATE	SAMPLER DRS	AIR TEMP(C)	+ 28.0	WEATHER	CALM-CLEAR
	PHASE 2	MAP NM1412	SITE 0074	TIME TAKEN	16/25/08/78	RELIEF	FLAT
	LOCATION: LAT	48.622( 48 37'19")	LONG	96.632( 96 37'55")		CONTAMINANTS	NONE
	SURFACE GEOL UNIT	QTL	RESULTS REQ	YES	RELEASED	801031	
						SAMPLE: COLOR	-CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	895	DISSOLVED OXYGEN(PPM)	3.8
WATER TEMP(C)	+ 14.2	VISIBILITY(M)	CLEAR	PH	7.9 LO-ION PAPER
TOTAL ALKALINITY(PPM)	356	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	358
APPEARANCE	CLEAR	DISCHARGE(L/M)			
PRODUCING HORIZON	QPG	CONFIDENCE	PROBABLE	SOURCE	GEOLOGICAL INFERENCE

WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	STEEL	PIPE COMPOSITION	GALVANIZED
METERS FROM HEAD	10	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSEHOLD	PUMPING FREQUENCY	CONSTANT
DEPTH TO PROD HORIZON(M)	23	CONFIDENCE OF PRODUCING DEPTH	POSSIBLE	SOURCE OF PRODUCING INFORMATION	GEOLOGICAL INFERENCE		
WELL DEPTH(M)	27	CONFIDENCE OF WELL DEPTH	PROBABLE	SOURCE OF DEPTH INFORMATION	OWNER		

REMARKS:

1-38 KARLSTAD 15 MINUTE QUAD, ROBERT VIK, HALMA, MN, WELL IN PUMPHOUSE, SAMPLED BARN;  
 1-51 KRET IS PRESENT;  
 1-78 ROBERT VIK & HALMA, MN 56729;

602671	TYPE WELL WATER	REPLICATE	SAMPLER GJG	AIR TEMP(C)	+ 16.5	WEATHER	LT WIND-OVERCAST
	PHASE 2	MAP NM1412	SITE 0024	TIME TAKEN	20/23/08/78	RELIEF	FLAT
	LOCATION: LAT	48.992( 48 59'31")	LONG	96.450( 96 27' 0")		CONTAMINANTS	NONE
	SURFACE GEOL UNIT	QTL	RESULTS REQ	NO	RELEASED	801031	
						SAMPLE: COLOR	-CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	590	DISSOLVED OXYGEN(PPM)	4.0
WATER TEMP(C)	+ 13.8	VISIBILITY(M)	CLEAR	PH	7.9 LO-ION PAPER
TOTAL ALKALINITY(PPM)	275	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	280
APPEARANCE	CLEAR	DISCHARGE(L/M)	132.00		
PRODUCING HORIZON	QPG	CONFIDENCE	HIGH	SOURCE	GEOLOGICAL INFERENCE

WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	STEEL	PIPE COMPOSITION	COPPER
METERS FROM HEAD	7	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSEHOLD	PUMPING FREQUENCY	FREQUENT
DEPTH TO PROD HORIZON(M)	33	CONFIDENCE OF PRODUCING DEPTH	POSSIBLE	SOURCE OF PRODUCING INFORMATION	OWNER		
WELL DEPTH(M)	33	CONFIDENCE OF WELL DEPTH	POSSIBLE	SOURCE OF DEPTH INFORMATION	OWNER		

REMARKS:

1-38 CARIBOU 7.5 MINUTE TOPO, GEORGE KOWALIUK, LANCASTER, MN., 56735, SAMPLE FROM KITCHEN TAP, WELL IS ONE METER NORTH OF

HOUSE:

602672 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 17.0 WEATHER LT WIND-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0025 TIME TAKEN 21/23/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.951 (48 57' 3") LONG 96.429 (96 25' 44") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ NO ,RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 630 DISSOLVED OXYGEN (PPM) 1.6  
 WATER TEMP (C) + 9.2 VISIBILITY (M) CLEAR PH 7.7 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 300 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 290  
 APPEARANCE CLEAR DISCHARGE (L/M) 379.00  
 PRODUCING HORIZON QPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 2 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON (M) 77 CONFIDENCE OF PRODUCING DEPTH HIGH SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH (M) 78 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

## REMARKS:

J-38 CARIBOU 7.5 MINUTE TOPO, 215227, OLAF STEJEN, LANCASTER, MN, 56735, SAMPLE FROM HYDRANT ON PUMPHOUSE, WELL IS 27M SW OF BARN:

602673 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 16.1 WEATHER LT WIND-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0026 TIME TAKEN 09/24/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.883 (48 52' 58") LONG 97.107 (97 6' 25") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ NO ,RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 2260 DISSOLVED OXYGEN (PPM) 5.4  
 WATER TEMP (C) + 9.1 VISIBILITY (M) CLEAR PH 7.0 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 400 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 410  
 APPEARANCE CLEAR DISCHARGE (L/M)  
 PRODUCING HORIZON QTL CONFIDENCE HIGH SOURCE GEOL. INFERENCE

## WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION HAND CASING OTHER PIPE COMPOSITION STEEL  
 METERS FROM HEAD 0 WITH RESPECT TO PRESSURE TANK NONE USE HOUSEHOLD PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON (M) 4 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH (M) 4 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

## REMARKS:

J-38 HUMBOLDT 7.5 MINUTE TOPO, JOHN HEMMES, HUMBOLDT, MN, 56731, SAMPLE FROM PUMP ON WELL, WELL IS 17M ESE OF HOUSE:

602674 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 16.7 WEATHER LT WIND-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0027 TIME TAKEN 10/24/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.767 (48 46' 1") LONG 96.890 (96 53' 24") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ NO ,RELEASED 801031 SAMPLE: COLOR U- -BK ODOR H2S

## GENERAL WATER INFORMATION:

TREATMENT NONE  
 WATER TEMP(C) + 12.5  
 TOTAL ALKALINITY (PPM) 100  
 APPEARANCE CLEAR  
 PRODUCING HORIZON OPG

CONDUCTIVITY (MICROMHOS/CM) 4710  
 VISIBILITY (M) CLEAR  
 P ALKALINITY (PPM) 45  
 DISCHARGE (L/M) HIGH  
 CONFIDENCE HIGH

DISSOLVED OXYGEN (PPM) 2.4  
 PH 6.9 LO-ION PAPER  
 M ALKALINITY (PPM) 102

SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED  
 METERS FROM HEAD 11  
 DEPTH TO PROD HORIZON (M) 11  
 WELL DEPTH (M) 11

POWER CLASSIFICATION ELECTRIC  
 WITH RESPECT TO PRESSURE TANK AFTER  
 CONFIDENCE OF PRODUCING DEPTH PROBABLE  
 CONFIDENCE OF WELL DEPTH PROBABLE

CASING STEEL  
 USE STOCK  
 SOURCE OF PRODUCING INFORMATION OWNER  
 SOURCE OF DEPTH INFORMATION OWNER

PIPE COMPOSITION COPPER  
 PUMPING FREQUENCY RARE

REMARKS:

1-38 HALLOCK 7.5 MINUTE TOPO, OSCAR TURESON, HALLOCK, MN., 56728, SAMPLE FROM TAP IN NW CORNER OF BARN, WELL IS 10M NORTH OF NW CORNER OF BARN;

602675 TYPE WELL WATER  
 PHASE 2 MAP NM1412  
 LOCATION: LAT 48.772 (48 46'19")  
 SURFACE GEOL UNIT OPG

REPLICATE  
 SITE 0028  
 RESULTS REG NO , RELEASED 801031

SAMPLER GJG  
 TIME TAKEN 11/24/08/78

AIR TEMP (C) + 19.2  
 RELIEF FLAT  
 CONTAMINANTS NONE

WEATHER LT WIND-PT CLDY  
 VEGETATION GRASS-MODERATE

SAMPLE COLOR - -CL - QDOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE  
 WATER TEMP (C) + 5.7  
 TOTAL ALKALINITY (PPM) 245  
 APPEARANCE CLEAR  
 PRODUCING HORIZON OPG

CONDUCTIVITY (MICROMHOS/CM) 2260  
 VISIBILITY (M) CLEAR  
 P ALKALINITY (PPM) 45  
 DISCHARGE (L/M) HIGH  
 CONFIDENCE HIGH

DISSOLVED OXYGEN (PPM) 2.9  
 PH 7.4 LO-ION PAPER  
 M ALKALINITY (PPM) 245

SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED  
 METERS FROM HEAD 0  
 DEPTH TO PROD HORIZON (M) 10  
 WELL DEPTH (M) 10

POWER CLASSIFICATION ELECTRIC  
 WITH RESPECT TO PRESSURE TANK NONE  
 CONFIDENCE OF PRODUCING DEPTH POSSIBLE  
 CONFIDENCE OF WELL DEPTH POSSIBLE

CASING STEEL  
 USE STOCK  
 SOURCE OF PRODUCING INFORMATION OWNER  
 SOURCE OF DEPTH INFORMATION OWNER

PIPE COMPOSITION STEEL  
 PUMPING FREQUENCY INFREQUENT

REMARKS:

1-38 LANCASTER 7.5 MINUTE TOPO, ALVIN BLOMQUIST, HALLOCK, MN., 56728, SAMPLE FROM PUMP ON WELL, WELL IS 4M NORTH OF NW CORNER OF BARN;

602676 TYPE WELL WATER  
 PHASE 2 MAP NM1412  
 LOCATION: LAT 48.779 (48 46'44")  
 SURFACE GEOL UNIT OPG

REPLICATE  
 SITE 0029  
 RESULTS REG YES , RELEASED 801031

SAMPLER GJG  
 TIME TAKEN 12/24/08/78

AIR TEMP (C) + 19.9  
 RELIEF FLAT  
 CONTAMINANTS NONE

WEATHER LT WIND-PT CLDY  
 VEGETATION GRASS-MODERATE

SAMPLE COLOR - -CL - QDOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE  
 WATER TEMP (C) + 12.0  
 TOTAL ALKALINITY (PPM) 358  
 APPEARANCE CLEAR  
 PRODUCING HORIZON OPG

CONDUCTIVITY (MICROMHOS/CM) 1070  
 VISIBILITY (M) CLEAR  
 P ALKALINITY (PPM) 45  
 DISCHARGE (L/M) HIGH  
 CONFIDENCE HIGH

DISSOLVED OXYGEN (PPM) 5.9  
 PH 7.7 LO-ION PAPER  
 M ALKALINITY (PPM) 362

SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DUG  
 METERS FROM HEAD 30

POWER CLASSIFICATION ELECTRIC  
 WITH RESPECT TO PRESSURE TANK NONE

CASING OTHER  
 USE HOUSE/STOCK

PIPE COMPOSITION PLASTIC  
 PUMPING FREQUENCY FREQUENT

DEPTH TO PROD HORIZON(M)	10	CONFIDENCE OF PRODUCING DEPTH POSSIBLE	SOURCE OF PRODUCING INFORMATION	OWNER
WELL DEPTH(M)	10	CONFIDENCE OF WELL DEPTH	SOURCE OF DEPTH INFORMATION	OWNER

REMARKS:

B-20 CEMENT CASTING;  
 1-38 LANCASTER 7.5 MINUTE TOPO, HOWARD HOMSTAD, HALLOCK, MN., 56728, SAMPLE FROM HYDRANT ON EAST SIDE OF BARN, WELL IS 29M ESE OF BARN;  
 1-78 HOWARD HOMSTAD & HALLOCK, MN., 56728;

602677 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 21.0 WEATHER LT WIND-CLEAR  
 PHASE 2 MAP NM1412 SITE 0030 TIME TAKEN 13/24/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.832 (48 49'55") LONG 96.759 (96 45'32") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE	CONDUCTIVITY(MICROMHOS/CM)	2770	DISSOLVED OXYGEN(PPM)	2.5
WATER TEMP(C) + 9.1	VISIBILITY(M)	CLEAR	PH 7.4 LO-ION PAPER	
TOTAL ALKALINITY(PPM) 400	P ALKALINITY(PPM)	35	M ALKALINITY(PPM)	400
APPEARANCE CLEAR	DISCHARGE(L/M)	38.00		
PRODUCING HORIZON QPG	CONFIDENCE HIGH		SOURCE GEOL INFERENCE	

WELL INFORMATION:

TYPE DRILLED	POWER CLASSIFICATION ELECTRIC	CASING STEEL	PIPE COMPOSITION PLASTIC
METERS FROM HEAD 15	WITH RESPECT TO PRESSURE TANK AFTER	USE HOUSE/STOCK	PUMPING FREQUENCY FREQUENT
DEPTH TO PROD HORIZON(M) 49	CONFIDENCE OF PRODUCING DEPTH HIGH	SOURCE OF PRODUCING INFORMATION	GEOL. INFERENCE
WELL DEPTH(M) 50	CONFIDENCE OF WELL DEPTH HIGH	SOURCE OF DEPTH INFORMATION	GEOL. INFERENCE

REMARKS:

1-38 LANCASTER 7.5 MINUTE TOPO, 101673, MARLOS VIG, LANCASTER, MN., 56735, SAMPLE FROM HYDRANT 15M SW OF WELL, WELL IS 147M WNW OF HOUSE;  
 1-51 KRET IS PRESENT;  
 1-78 MARLOS VIG & LANCASTER, MN., 56735;

602678 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 22.1 WEATHER LT WIND-CLEAR  
 PHASE 2 MAP NM1412 SITE 0031 TIME TAKEN 14/24/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.887 (48 53'13") LONG 96.767 (96 46' 1") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ NO, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE	CONDUCTIVITY(MICROMHOS/CM)	1440	DISSOLVED OXYGEN(PPM)	2.0
WATER TEMP(C) + 8.8	VISIBILITY(M)	CLEAR	PH 7.1 LO-ION PAPER	
TOTAL ALKALINITY(PPM) 495	P ALKALINITY(PPM)	35	M ALKALINITY(PPM)	500
APPEARANCE CLEAR	DISCHARGE(L/M)	15.00		
PRODUCING HORIZON QPG	CONFIDENCE HIGH		SOURCE GEOL INFERENCE	

WELL INFORMATION:

TYPE DRILLED	POWER CLASSIFICATION ELECTRIC	CASING STEEL	PIPE COMPOSITION STEEL
METERS FROM HEAD 0	WITH RESPECT TO PRESSURE TANK NONE	USE HOUSE/STOCK	PUMPING FREQUENCY FREQUENT
DEPTH TO PROD HORIZON(M) 13	CONFIDENCE OF PRODUCING DEPTH HIGH	SOURCE OF PRODUCING INFORMATION	GEOL. INFERENCE
WELL DEPTH(M) 14	CONFIDENCE OF WELL DEPTH HIGH	SOURCE OF DEPTH INFORMATION	GEOL. INFERENCE

REMARKS:

1-38 HALLOCK NE 7.5 MINUTE TOPO, 101666, HARVEY KJALLGREN, LANCASTER, MN., 56735, SAMPLE FROM PUMP ON WELL, WELL IS 28M ESE OF



HOUSE:

1-51 KRET IS PRESENT;

602679 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 23.2 WEATHER LT WIND-CLEAR  
 PHASE 2 MAP NM1412 SITE 0032 TIME TAKEN 15/24/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.860 (48 51'36") LONG 96.783 (96 46'58") CONTAMINANTS NONE  
 SURFACE GEOL UNIT OTL RESULTS REQ NO , RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 870 DISSOLVED OXYGEN (PPM) 2.1  
 WATER TEMP (C) + 8.5 VISIBILITY (M) CLEAR PH 7.2 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 470 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 478  
 APPEARANCE CLEAR DISCHARGE (L/M) 95.00  
 PRODUCING HORIZON QPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION STEEL  
 METERS FROM HEAD 175 WITH RESPECT TO PRESSURE TANK BEFORE USE MUNICIPAL PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON (M) 27 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION USER  
 WELL DEPTH (M) 27 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION USER

## REMARKS:

1-38 LANCASTER 7.5 MINUTE TOPO, CITY OF LANCASTER, LANCASTER, MN., 56735, SAMPLE FROM HYDRANT ON PIPELINE IN PUMPHOUSE, WELL IS  
 175M SOUTH OF PUMPHOUSE;  
 1-51 KRET IS PRESENT;

602680 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 16.1 WEATHER LT WIND-OVERCST  
 PHASE 2 MAP NM1412 SITE 0033 TIME TAKEN 09/25/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.819 (48 49' 8") LONG 96.840 (96 50'24") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ YES , RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 1430 DISSOLVED OXYGEN (PPM) 2.4  
 WATER TEMP (C) + 11.4 VISIBILITY (M) CLEAR PH 6.9 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 390 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 380  
 APPEARANCE CLEAR DISCHARGE (L/M)  
 PRODUCING HORIZON QPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

## WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION ELECTRIC CASING OTHER PIPE COMPOSITION COPPER  
 METERS FROM HEAD 61 WITH RESPECT TO PRESSURE TANK AFTER USE STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON (M) 9 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH (M) 9 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

## REMARKS:

1-38 LANCASTER 7.5 MINUTE TOPO, OSCAR NORDINE, LANCASTER, MN., 56735, SAMPLE FROM HYDRANT IN GARDEN 60M ESE OF WELL, WELL IS  
 142M WEST OF HOUSE;  
 1-78 OSCAR NORDINE & LANCASTER, MN., 56735;  
 3-20 BRICK CASING;

602681 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 16.9 WEATHER LT WIND-OVERCST

PHASE 2 MAP NM1412 SITE 0034 TIME TAKEN 10/25/08/78  
 LOCATION: LAT 48.863( 48 51'46") LONG 96.840( 96 50'24")  
 SURFACE GEOL UNIT QPG RESULTS REQ YES, RELEASED 801031

RELIEF FLAT VEGETATION GRASS-MODERATE  
 CONTAMINANTS NONE

SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 1510 DISSOLVED OXYGEN(PPM) 5.1  
 WATER TEMP(C) + 12.9 VISIBILITY(M) CLEAR PH 6.8 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 505 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 495  
 APPEARANCE CLEAR DISCHARGE(L/M)  
 PRODUCING HORIZON QPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

## WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION ELECTRIC CASING OTHER PIPE COMPOSITION GALVANIZED  
 METERS FROM HEAD 32 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON(M) 9 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH(M) 9 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

## REMARKS:

1-38 LANCASTER 7.5 MINUTE TOPO, DOUG WHITLOCK, LANCASTER, MN., 56735, SAMPLE FROM HYDRANT ON NORTH SIDE OF HOUSE, WELL IS 29M  
 NE OF HOUSE;  
 1-78 DOUG WHITLOCK & LANCASTER, MN., 56735;  
 3-20 BRICK CASING;

602682 TYPE WELL WATER REPLICATE SAMPLER GJG  
 PHASE 2 MAP NM1412 SITE 0035 TIME TAKEN 11/25/08/78  
 LOCATION: LAT 48.874( 48 52'26") LONG 96.741( 96 44'27")  
 SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031

AIR TEMP(C) + 18.0 WEATHER LT WIND-PT CLDY  
 RELIEF FLAT VEGETATION GRASS-MODERATE  
 CONTAMINANTS NONE

SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 4045 DISSOLVED OXYGEN(PPM) 1.3  
 WATER TEMP(C) + 13.7 VISIBILITY(M) CLEAR PH 7.2 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 268 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 270  
 APPEARANCE CLEAR DISCHARGE(L/M) 227.00  
 PRODUCING HORIZON QPG CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 32 WITH RESPECT TO PRESSURE TANK AFTER USE STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON(M) 14 CONFIDENCE OF PRODUCING DEPTH HIGH SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 104 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

## REMARKS:

1-38 SKULL LAKE SW 7.5 MINUTE TOPO, 215212, DARELL VAGLE, LANCASTER, MN., 56735, SAMPLE FROM HYDRANT IN MILK ROOM, WELL IS 30M  
 SW OF BARN;  
 1-51 KRET IS PRESENT;  
 1-78 DARELL VAGLE & LANCASTER, MN., 56735;  
 2-74 WELL MIGHT BE PRODUCING FROM JURA BUT BOUNDARY BETWEEN KRET AND JURA IS NOT CLEAR;

602683 TYPE WELL WATER REPLICATE SAMPLER GJG  
 PHASE 2 MAP NM1412 SITE 0036 TIME TAKEN 12/25/08/78  
 LOCATION: LAT 48.828( 48 49'40") LONG 96.707( 96 42'25")  
 SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031

AIR TEMP(C) + 19.2 WEATHER LT WIND-PT CLDY  
 RELIEF FLAT VEGETATION GRASS-MODERATE  
 CONTAMINANTS NONE

SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE  
 WATER TEMP(C) + 8.5 CONDUCTIVITY(MICROMHOS/CM) 900 DISSOLVED OXYGEN(PPM) 1.6  
 TOTAL ALKALINITY(PPM) 422 VISIBILITY(M) CLEAR PH 6.9 LO-ION PAPER  
 APPEARANCE CLEAR P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 435  
 PRODUCING HORIZON OPG DISCHARGE(L/M) 360.00  
 CONFIDENCE HIGH SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 32 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON(M) 9 CONFIDENCE OF PRODUCING DEPTH HIGH SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 18 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

REMARKS:

1-38 SKULL LAKE SW 7.5 MINUTE TOPO, 111848, DUANE BECK, LANCASTER, MN., 56735, SAMPLE FROM HYDRANT ON NORTH SIDE OF HOUSE, WELL IS 31M NE OF HOUSE;  
 1-51 KRET IS PRESENT;  
 1-78 DUANE BECK & LANCASTER, MN., 56735;

602685 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 20.2 WEATHER LT WIND-CLEAR  
 PHASE 2 MAP NM1412 SITE 0037 TIME TAKEN 13/25/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.774 (48 46'26") LONG 96.721 (96 43'15") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 1640 DISSOLVED OXYGEN(PPM) 1.8  
 WATER TEMP(C) + 9.1 VISIBILITY(M) CLEAR PH 7.2 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 485 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 490  
 APPEARANCE CLEAR DISCHARGE(L/M) 7.00  
 PRODUCING HORIZON OPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 33 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON(M) 42 CONFIDENCE OF PRODUCING DEPTH HIGH SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 43 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

REMARKS:

1-38 SKULL LAKE SW 7.5 MINUTE TOPO, 111811 EARL NELSON, LAKE BRONSON, MN., 56734, SAMPLE FROM HYDRANT ON NORTH SIDE OF HOUSE, WELL IS 27M NE OF HOUSE;  
 1-51 KRET IS PRESENT;  
 1-78 EARL NELSON & LAKE BRONSON, MN., 56734;  
 3-21 6M OF COPPER;

602686 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 21.0 WEATHER LT WIND-CLEAR  
 PHASE 2 MAP NM1412 SITE 0038 TIME TAKEN 14/25/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.774 (48 46'26") LONG 96.721 (96 43'15") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 1760 DISSOLVED OXYGEN(PPM) 0.9  
 WATER TEMP(C) + 15.0 VISIBILITY(M) CLEAR PH 6.9 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 405 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 410

APPEARANCE	CLEAR	DISCHARGE(L/M)			
PRODUCING HORIZON	OPG	CONFIDENCE	HIGH	SOURCE	GEOL. INFERENCE
WELL INFORMATION:					
TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	STEEL
METERS FROM HEAD	22	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSEHOLD
DEPTH TO PROD HORIZON(M)	18	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	OWNER
WELL DEPTH(M)	27	CONFIDENCE OF WELL DEPTH	PROBABLE	SOURCE OF DEPTH INFORMATION	OWNER
				PIPE COMPOSITION	COPPER
				PUMPING FREQUENCY	FREQUENT

REMARKS:  
 1-38 SKULL LAKE SW 7.5 MINUTE TOPO, EARL NELSON, LAKE BRONSON, MN., 56734, SAMPLE FROM HYDRANT ON EAST SIDE OF HOUSE, WELL IS 6M NORTH OF NE CORNER OF HOUSE;  
 1-51 KRET IS PRESENT;  
 1-78 EARL NELSON & LAKE BRONSON, MN., 56734;  
 3-20 6M OF PLASTIC;

602687	TYPE WELL WATER	REPLICATE	SAMPLER GJG	AIR TEMP(C)	+ 22.2	WEATHER	LT WIND-CLEAR
	PHASE 2	MAP NM1412	SITE 0039	RELIEF	FLAT	VEGETATION	GRASS-MODERATE
	LOCATION:	LAT 48.765( 48 45'54")	LONG 96.652( 96 39' 7")	CONTAMINANTS	NONE		
	SURFACE GEOL UNIT	OTL	RESULTS REQ YES	RELEASED	BQ1031	SAMPLE: COLOR	-CL -ODOR NONE

GENERAL WATER INFORMATION:							
TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	920	DISSOLVED OXYGEN(PPM)	1.1		
WATER TEMP(C)	+ 8.3	VISIBILITY(M)	CLEAR	PH	7.0	LO-ION PAPER	
TOTAL ALKALINITY(PPM)	540	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	560		
APPEARANCE	CLEAR	DISCHARGE(L/M)	19.00	SOURCE	GEOL. INFERENCE		
PRODUCING HORIZON	OPG	CONFIDENCE	HIGH				

WELL INFORMATION:							
TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	STEEL	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD	3	WITH RESPECT TO PRESSURE TANK	BEFORE	USE	HOUSE/STOCK	PUMPING FREQUENCY	FREQUENT
DEPTH TO PROD HORIZON(M)	31	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	OWNER		
WELL DEPTH(M)	32	CONFIDENCE OF WELL DEPTH	PROBABLE	SOURCE OF DEPTH INFORMATION	OWNER		

REMARKS:  
 1-38 SKULL LAKE SW 7.5 MINUTE TOPO, CHARLES LEVENHAGEN, LAKE BRONSON, MN., 56734, SAMPLE FROM HYDRANT 2M SOUTH OF WELL, WELL IS 32M SOUTH OF HOUSE;  
 1-51 KRET IS PRESENT;  
 1-78 CHARLES LEVENHAGEN & LAKE BRONSON, MN., 56734;

602688	TYPE WELL WATER	REPLICATE	SAMPLER GJG	AIR TEMP(C)	+ 23.4	WEATHER	LT WIND-CLEAR
	PHASE 2	MAP NM1412	SITE 0040	RELIEF	FLAT	VEGETATION	GRASS-MODERATE
	LOCATION:	LAT 48.790( 48 47'24")	LONG 96.533( 96 31'58")	CONTAMINANTS	NONE		
	SURFACE GEOL UNIT	OPG	RESULTS REQ YES	RELEASED	BQ1031	SAMPLE: COLOR	-CL -ODOR NONE

GENERAL WATER INFORMATION:							
TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	730	DISSOLVED OXYGEN(PPM)	3.0		
WATER TEMP(C)	+ 14.7	VISIBILITY(M)	CLEAR	PH	7.1	LO-ION PAPER	
TOTAL ALKALINITY(PPM)	305	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	310		
APPEARANCE	CLEAR	DISCHARGE(L/M)	34.00	SOURCE	GEOL. INFERENCE		
PRODUCING HORIZON	OPG	CONFIDENCE	HIGH				

WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	STEEL	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD	32	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSE/STOCK	PUMPING FREQUENCY	FREQUENT
DEPTH TO PROD HORIZON(M)	4	CONFIDENCE OF PRODUCING DEPTH	HIGH	SOURCE OF PRODUCING INFORMATION	GEOLOGICAL INFERENCE		
WELL DEPTH(M)	14	CONFIDENCE OF WELL DEPTH	HIGH	SOURCE OF DEPTH INFORMATION	GEOLOGICAL INFERENCE		

REMARKS:

1-38 SKULL LAKE SE 7.5 MINUTE TOPO, T11846, JIM SHABLOW, LAKE BRONSON, MN., 56734, SAMPLE FROM HYDRANT IN WORK SHED, WELL IS 4M NORTH OF SHED;  
1-78 JIM SHABLOW & LAKE BRONSON, MN., 56734;

602689	TYPE WELL WATER	REPLICATE	SAMPLER GJG	AIR TEMP(C)	+ 25.0	WEATHER	CALM-CLEAR
	PHASE 2	MAP NM1412	SITE 0041	TIME TAKEN	17/25/08/78	RELIEF	FLAT
	LOCATION: LAT	48.753 (48 45'10")	LONG	96.496 (96 29'45")	CONTAMINANTS	NONE	
	SURFACE GEOL UNIT	OPG	RESULTS REQ	YES	RELEASED	801031	
					SAMPLE COLOR	-CL	ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	640	DISSOLVED OXYGEN(PPM)	1.5
WATER TEMP(C)	+ 9.0	VISIBILITY(M)	CLEAR	PH	7.6 LO-ION PAPER
TOTAL ALKALINITY(PPM)	302	P ALKALINITY(PPM)	45	M ALKALINITY(PPM)	295
APPEARANCE	CLEAR	DISCHARGE(L/M)		SOURCE	GEOLOGICAL INFERENCE
PRODUCING HORIZON	OPG	CONFIDENCE	HIGH		

WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	STEEL	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD	18	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSE/STOCK	PUMPING FREQUENCY	FREQUENT
DEPTH TO PROD HORIZON(M)	86	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	OWNER		
WELL DEPTH(M)	88	CONFIDENCE OF WELL DEPTH	PROBABLE	SOURCE OF DEPTH INFORMATION	OWNER		

REMARKS:

1-38 JUNE BERRY RIDGE 7.5 MINUTE TOPO, EINAR LUND, LAKE BRONSON, MN., 56734, SAMPLE FROM HYDRANT 17M SOUTH OF WELL, WELL IS 38M SOUTH OF HOUSE;  
1-78 EINAR LUND & LAKE BRONSON, MN., 56734;

602690	TYPE WELL WATER	REPLICATE	SAMPLER GJG	AIR TEMP(C)	+ 25.9	WEATHER	LT WIND-CLEAR
	PHASE 2	MAP NM1412	SITE 0042	TIME TAKEN	18/25/08/78	RELIEF	FLAT
	LOCATION: LAT	48.831 (48 49'51")	LONG	96.641 (96 38'27")	CONTAMINANTS	NONE	
	SURFACE GEOL UNIT	OTL	RESULTS REQ	NO	RELEASED	801031	
					SAMPLE COLOR	-CL	ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	1015	DISSOLVED OXYGEN(PPM)	1.3
WATER TEMP(C)	+ 14.7	VISIBILITY(M)	CLEAR	PH	7.0 LO-ION PAPER
TOTAL ALKALINITY(PPM)	430	P ALKALINITY(PPM)	35	M ALKALINITY(PPM)	410
APPEARANCE	CLEAR	DISCHARGE(L/M)		SOURCE	GEOLOGICAL INFERENCE
PRODUCING HORIZON	OPG	CONFIDENCE	HIGH		

WELL INFORMATION:

TYPE	DUG	POWER CLASSIFICATION	ELECTRIC	CASING	OTHER	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD	10	WITH RESPECT TO PRESSURE TANK	NONE	USE	HOUSEHOLD	PUMPING FREQUENCY	FREQUENT
DEPTH TO PROD HORIZON(M)	4	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	OWNER		
WELL DEPTH(M)	4	CONFIDENCE OF WELL DEPTH	PROBABLE	SOURCE OF DEPTH INFORMATION	OWNER		

REMARKS:

1-38 SKULL LAKE SW 7.5 MINUTE TOPO, LEONARD LAMBERT, LAKE BRONSON, MN., 56734, SAMPLE FROM KITCHEN SINK, WELL IS 4M EAST OF

HOUSE:  
1-51 KRET IS PRESENT;  
3-20 CEMENT CASING;

602691 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 26.5 WEATHER CALM-CLEAR  
PHASE 2 MAP NM1412 SITE 0043 TIME TAKEN 19/25/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
LOCATION: LAT 48.832( 48 49'55") LONG 96.603( 96 36'10") CONTAMINANTS NONE  
SURFACE GEOL UNIT QTL RESULTS REQ NO , RELEASED 801031 SAMPLE: COLOR - -CL QDOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 870 DISSOLVED OXYGEN(PPM) 1.9  
WATER TEMP(C) + 8.3 VISIBILITY(M) CLEAR PH 7.8 LO-ION PAPER  
TOTAL ALKALINITY(PPM) 270 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 260  
APPEARANCE CLEAR DISCHARGE(L/M) 34.00  
PRODUCING HORIZON QPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
METERS FROM HEAD 1 WITH RESPECT TO PRESSURE TANK BEFORE USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT  
DEPTH TO PROD HORIZON(M) 55 CONFIDENCE OF PRODUCING DEPTH HIGH SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
WELL DEPTH(M) 56 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

REMARKS:

1-38 SKULL LAKE SE 7.5 MINUTE TOPO, 215213, LEONARD EHRENSTROM, LAKE BRONSON, MN., 56734, SAMPLE FROM HYDRANT NEXT TO WELL,  
WELL IS 21M SW OF HOUSE;  
1-51 KRET IS PRESENT;  
2-74 KRET MIGHT BE AT 68M;

602692 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 27.1 WEATHER CALM-CLEAR  
PHASE 2 MAP NM1412 SITE 0044 TIME TAKEN 20/25/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
LOCATION: LAT 48.865( 48 51'54") LONG 96.642( 96 38'31") CONTAMINANTS NONE  
SURFACE GEOL UNIT QPG RESULTS REQ NO , RELEASED 801031 SAMPLE: COLOR - -CL QDOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 1130 DISSOLVED OXYGEN(PPM) 1.5  
WATER TEMP(C) + 11.8 VISIBILITY(M) CLEAR PH 7.5 LO-ION PAPER  
TOTAL ALKALINITY(PPM) 250 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 250  
APPEARANCE CLEAR DISCHARGE(L/M)  
PRODUCING HORIZON QPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION ELECTRIC CASING OTHER PIPE COMPOSITION STEEL  
METERS FROM HEAD 0 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY INFREQUENT  
DEPTH TO PROD HORIZON(M) 9 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION OWNER  
WELL DEPTH(M) 9 CONFIDENCE OF WELL DEPTH POSSIBLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 SKULL LAKE SW 7.5 MINUTE TOPO, CHUCK WAGON, LAKE BRONSON, MN., 56734, SAMPLE FROM PUMP ON WELL, WELL IS 4M EAST OF SE  
CORNER OF WELL;  
3-20 TILE CASING;

602693 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 22.0 WEATHER CALM-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0045 TIME TAKEN 09/26/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.877( 48 52'37") LONG 96.524( 96 31'26") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 480 DISSOLVED OXYGEN(PPM) 4.5  
 WATER TEMP(C) + 13.1 VISIBILITY(M) CLEAR PH 7.1 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 190 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 185  
 APPEARANCE CLEAR DISCHARGE(L/M) HIGH SOURCE GEOL. INFERENCE  
 PRODUCING HORIZON QPG CONFIDENCE HIGH

## WELL INFORMATION:

TYPE DRIVE POINT POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION COPPER  
 METERS FROM HEAD 10 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON(M) 3 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH(M) 3 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

## REMARKS:

1-38 SKULL LAKE NE 7.5 MINUTE TOPO, WAYNE AND BYRON STOCK, LANCASTER, MN., 56735, SAMPLE FROM KITCHEN TAP, WELL IS UNDER SE  
 CORNER OF HOUSE;  
 1-78 WAYNE AND BYRON STOCK & LANCASTER, MN., 56735;

602694 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 23.0 WEATHER CALM-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0046 TIME TAKEN 10/26/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.889( 48 53'20") LONG 96.455( 96 27'18") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR H2S

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 690 DISSOLVED OXYGEN(PPM) 1.3  
 WATER TEMP(C) + 10.1 VISIBILITY(M) CLEAR PH 7.3 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 230 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 230  
 APPEARANCE CLEAR DISCHARGE(L/M) 68.00  
 PRODUCING HORIZON QPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION COPPER  
 METERS FROM HEAD 15 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON(M) 30 CONFIDENCE OF PRODUCING DEPTH HIGH SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 31 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

## REMARKS:

1-38 CARIBOU 7.5 MINUTE TOPO, 147786, JOHN EMERY LANCASTER, MN., 56735, SAMPLE FROM KITCHEN TAP, WELL IS ONE METER SOUTH OF  
 HOUSE;  
 1-78 JOHN EMERY & LANCASTER, MN., 56735;

602695 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 29.0 WEATHER CALM-CLEAR  
 PHASE 2 MAP NM1412 SITE 0075 TIME TAKEN 17/25/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.600( 48 36' 0") LONG 96.645( 96 38'42") CONTAMINANTS NONE  
 SURFACE GEOL UNIT DTL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 432 DISSOLVED OXYGEN(PPM) 1.5

WATER TEMP(C) + 14.3 VISIBILITY(M) CLEAR PH 8.3 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 326 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 340  
 APPEARANCE CLEAR DISCHARGE(L/M)  
 PRODUCING HORIZON QPG CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:  
 TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 40 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY CONSTANT  
 DEPTH TO PROD HORIZON(M) 9 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 17 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION OWNER

REMARKS:  
 1-38 KARLSTAD 15 MINUTE QUAD, 215234, ARDEN RAULSON, KARLSTAD, MN, WELL IN BARN, SAMPLED SOUTH SIDE OF HOUSE;  
 1-51 KRET IS PRESENT;  
 1-78 ARDEN RAULSON & KARLSTAD, MN. 56732;

602696 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 26.0 WEATHER CALM-CLEAR  
 PHASE 2 MAP NM1412 SITE 0076 TIME TAKEN 16/25/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.586( 48 35' 9") LONG 96.573( 96 34' 22") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:  
 TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 556 DISSOLVED OXYGEN(PPM) 0.7  
 WATER TEMP(C) + 10.6 VISIBILITY(M) CLEAR PH 7.5 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 546 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 560  
 APPEARANCE CLEAR DISCHARGE(L/M)  
 PRODUCING HORIZON QPG CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:  
 TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 2 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY CONSTANT  
 DEPTH TO PROD HORIZON(M) 20 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 21 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION OWNER

REMARKS:  
 1-38 KARLSTAD 15 MINUTE QUAD, 215220, GERALD BOEN, KARLSTAD, MN, WELL 2M EAST OF HOUSE, SAMPLED EAST SIDE OF HOUSE;  
 1-51 KRET IS PRESENT;  
 1-78 GERALD BOEN & KARLSTAD, MN, 56732;

602697 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 18.0 WEATHER CALM-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0077 TIME TAKEN 09/26/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.571( 48 34' 15") LONG 96.461( 96 27' 39") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:  
 TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 832 DISSOLVED OXYGEN(PPM) 2.1  
 WATER TEMP(C) + 15.0 VISIBILITY(M) CLEAR PH 6.5 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 452 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 466  
 APPEARANCE CLEAR DISCHARGE(L/M)  
 PRODUCING HORIZON QPG CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:  
 TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC



METERS FROM HEAD	30	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSEHOLD	PUMPING FREQUENCY	CONSTANT
DEPTH TO PROD HORIZON(M)	13	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	GEOLOGICAL INFERENCE		
WELL DEPTH(M)	15	CONFIDENCE OF WELL DEPTH	HIGH	SOURCE OF DEPTH INFORMATION	OWNER		

## REMARKS:

1-38 PELAN 15 MINUTE QUAD, 101660, HOLLIS TURNHALL, KARLSTAD, MN, WELL 30M SOUTH OF HOUSE, SAMPLED KITCHEN;  
 1-51 KRET IS PRESENT;  
 1-78 HOLLIS TURNHALL & KARLSTAD, MN, 56732;

602698	TYPE WELL WATER	REPLICATE	SAMPLER DRS	AIR TEMP(C)	+ 20.0	WEATHER	CALM-OVERCAST
	PHASE 2	MAP NM1412	SITE 0078	TIME TAKEN	10/26/08/78	RELIEF	FLAT
	LOCATION: LAT	48.632 (48 37'55")	LONG	96.454 (96 27'14")		CONTAMINANTS	NONE
	SURFACE GEOL UNIT	QPG	RESULTS REQ	YES	RELEASED	801031	
						SAMPLE: COLOR	- -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	590	DISSOLVED OXYGEN(PPM)	2.1
WATER TEMP(C)	+ 11.8	VISIBILITY(M)	CLEAR	PH	7.1 LO-ION PAPER
TOTAL ALKALINITY(PPM)	422	P ALKALINITY(PPM)	45	M ALKALINITY(PPM)	416
APPEARANCE	CLEAR	DISCHARGE(L/M)			
PRODUCING HORIZON	QPG	CONFIDENCE	PROBABLE	SOURCE	GEOLOGICAL INFERENCE

## WELL INFORMATION:

TYPE	DUG	POWER CLASSIFICATION	ELECTRIC	CASING OTHER	PIPE COMPOSITION	STEEL
METERS FROM HEAD	0	WITH RESPECT TO PRESSURE TANK	NONE	USE	HOUSE/STOCK	PUMPING FREQUENCY
DEPTH TO PROD HORIZON(M)	3	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	GEOLOGICAL INFERENCE	
WELL DEPTH(M)	4	CONFIDENCE OF WELL DEPTH	HIGH	SOURCE OF DEPTH INFORMATION	OWNER	

## REMARKS:

1-38 PELAN 15 MINUTE QUAD, MELVIN MINSKE, KARLSTAD, MN, WELL UNDER WINDMILL, SAMPLED AT HEAD;  
 1-51 KRET IS PRESENT;  
 1-78 MELVIN MINSKE & KARLSTAD, MN 56732;  
 3-20 WOOD CASING;

602699	TYPE WELL WATER	REPLICATE	SAMPLER DRS	AIR TEMP(C)	+ 21.0	WEATHER	CALM-PT CLDY
	PHASE 2	MAP NM1412	SITE 0079	TIME TAKEN	11/26/08/78	RELIEF	FLAT
	LOCATION: LAT	48.702 (48 42' 7")	LONG	96.429 (96 25'44")		CONTAMINANTS	NONE
	SURFACE GEOL UNIT	QPG	RESULTS REQ	YES	RELEASED	801031	
						SAMPLE: COLOR	- -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	385	DISSOLVED OXYGEN(PPM)	2.2
WATER TEMP(C)	+ 12.6	VISIBILITY(M)	CLEAR	PH	8.1 LO-ION PAPER
TOTAL ALKALINITY(PPM)	268	P ALKALINITY(PPM)	35	M ALKALINITY(PPM)	274
APPEARANCE	CLEAR	DISCHARGE(L/M)			
PRODUCING HORIZON	QPG	CONFIDENCE	PROBABLE	SOURCE	GEOLOGICAL INFERENCE

## WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	STEEL	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD	1	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSE/STOCK	PUMPING FREQUENCY	CONSTANT
DEPTH TO PROD HORIZON(M)	20	CONFIDENCE OF PRODUCING DEPTH	POSSIBLE	SOURCE OF PRODUCING INFORMATION	GEOLOGICAL INFERENCE		
WELL DEPTH(M)	23	CONFIDENCE OF WELL DEPTH	HIGH	SOURCE OF DEPTH INFORMATION	OWNER		

## REMARKS:

1-38 PELAN 15 MINUTE QUAD, AULIE KALINOWSKI, LAKE BRONSON, MN, WELL IN PUMPHOUSE, SAMPLED PUMPHOUSE SPIGOT;

1-78 AULIE KALINOWSKI &amp; LAKE BRONSON, MN 56734

602700 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 22.0 WEATHER CALM-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0080 TIME TAKEN 11/26/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.718( 48 43' 4") LONG 96.440( 96 26' 24") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 426 DISSOLVED OXYGEN(PPM) 2.2  
 WATER TEMP(C) + 12.3 VISIBILITY(M) CLEAR PH 8.0 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 308 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 306  
 APPEARANCE CLEAR DISCHARGE(L/M)  
 PRODUCING HORIZON QPG CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 10 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON(M) 15 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 18 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION OWNER

## REMARKS:

1-38 PELAN 15 MINUTE QUAD, DENNIS KOHALSKI, LAKE BRONSON, MN, WELL 1M NORTH OF HOUSE, SAMPLED EAST SIDE OF HOUSE;  
 1-51 KRET IS PRESENT;  
 1-78 DENNIS KOHALSKI & BOX 403 & ROCKFORD, MN 55373;

602701 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 24.0 WEATHER CALM-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0081 TIME TAKEN 12/26/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.718( 48 43' 4") LONG 96.475( 96 28' 30") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ NO, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 582 DISSOLVED OXYGEN(PPM) 0.2  
 WATER TEMP(C) + 12.8 VISIBILITY(M) CLEAR PH 7.7 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 364 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 374  
 APPEARANCE CLEAR DISCHARGE(L/M)  
 PRODUCING HORIZON QPG CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 10 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY CONSTANT  
 DEPTH TO PROD HORIZON(M) 59 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 61 CONFIDENCE OF WELL DEPTH POSSIBLE SOURCE OF DEPTH INFORMATION OWNER

## REMARKS:

1-38 PELAN 15 MINUTE QUAD, SEITZINGER FARMS, LAKE BRONSON, MN, WELL IN PUMPHOUSE, SAMPLED HYDRANT 10 M NORTH AT CORNER OF  
 QUONSET BARN;  
 1-51 KRET IS PRESENT;

602702 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 24.0 WEATHER CALM-OVERCST  
 PHASE 2 MAP NM1412 SITE 0082 TIME TAKEN 12/26/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.685( 48 41' 6") LONG 96.514( 96 30' 50") CONTAMINANTS NONE

SURFACE GEOL UNIT QPG RESULTS REQ YES, RELEASED 801031

SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE		CONDUCTIVITY (MICROMHOS/CM)	752	DISSOLVED OXYGEN (PPM)	2.8
WATER TEMP (C)	+ 17.1	VISIBILITY (M)	CLEAR	PH 7.6 LO-ION PAPER	
TOTAL ALKALINITY (PPM)	386	P ALKALINITY (PPM)	<5	M ALKALINITY (PPM)	394
APPEARANCE	CLEAR	DISCHARGE (L/M)			
PRODUCING HORIZON	QPG	CONFIDENCE	PROBABLE	SOURCE GEOL. INFERENCE	

## WELL INFORMATION:

TYPE	DUG	POWER CLASSIFICATION	ELECTRIC	CASING OTHER	PIPE COMPOSITION PLASTIC
METERS FROM HEAD	10	WITH RESPECT TO PRESSURE TANK	AFTER	USE HOUSE/STOCK	PUMPING FREQUENCY CONSTANT
DEPTH TO PROD HORIZON (M)	0	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	GEOL. INFERENCE
WELL DEPTH (M)	3	CONFIDENCE OF WELL DEPTH	HIGH	SOURCE OF DEPTH INFORMATION	OWNER

## REMARKS:

1-38 KARLSTAD 15 MINUTE QUAD, HENRY KLEGSTAD, HALMA, MN, WELL 10 M WEST OF HOUSE, SAMPLED KITCHEN;  
 1-51 KRET IS PRESENT;  
 1-78 HENRY KLEGSTAD & HALMA, MN 56729;  
 3-20 CONCRETE CASING;

602703 TYPE WELL WATER REPLICATE SAMPLER DRS  
 PHASE 2 MAP NM1412 SITE 0083 TIME TAKEN 13/26/08/78  
 LOCATION: LAT 48.680 (48 40'48") LONG 96.581 (96 34'51")  
 SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031

AIR TEMP (C) + 25.0 WEATHER CALM-PT CLDY  
 RELIEF FLAT VEGETATION GRASS-MODERATE  
 CONTAMINANTS NONE  
 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE		CONDUCTIVITY (MICROMHOS/CM)	253	DISSOLVED OXYGEN (PPM)	2.2
WATER TEMP (C)	+ 16.6	VISIBILITY (M)	CLEAR	PH 8.1 LO-ION PAPER	
TOTAL ALKALINITY (PPM)	168	P ALKALINITY (PPM)	<5	M ALKALINITY (PPM)	162
APPEARANCE	CLEAR	DISCHARGE (L/M)			
PRODUCING HORIZON	QPG	CONFIDENCE	PROBABLE	SOURCE GEOL. INFERENCE	

## WELL INFORMATION:

TYPE	DUG	POWER CLASSIFICATION	ELECTRIC	CASING GALVANIZED	PIPE COMPOSITION PLASTIC
METERS FROM HEAD	12	WITH RESPECT TO PRESSURE TANK	AFTER	USE HOUSE/STOCK	PUMPING FREQUENCY CONSTANT
DEPTH TO PROD HORIZON (M)	2	CONFIDENCE OF PRODUCING DEPTH	HIGH	SOURCE OF PRODUCING INFORMATION	OWNER
WELL DEPTH (M)	5	CONFIDENCE OF WELL DEPTH	HIGH	SOURCE OF DEPTH INFORMATION	OWNER

## REMARKS:

1-38 KARLSTAD 15 MINUTE QUAD, 215277, TORGER FOLLAND, HALMA, MN, WELL 3M EAST OF HOUSE, SAMPLED KITCHEN;  
 1-51 KRET IS PRESENT;  
 1-78 TORGER FOLLAND & HALMA, MN, 56729;

602704 TYPE WELL WATER REPLICATE SAMPLER DRS  
 PHASE 2 MAP NM1412 SITE 0084 TIME TAKEN 14/26/08/78  
 LOCATION: LAT 48.615 (48 36'54") LONG 96.595 (96 35'42")  
 SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031

AIR TEMP (C) + 26.0 WEATHER CALM-OVERCAST  
 RELIEF FLAT VEGETATION GRASS-MODERATE  
 CONTAMINANTS NONE  
 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE		CONDUCTIVITY (MICROMHOS/CM)	425	DISSOLVED OXYGEN (PPM)	1.6
WATER TEMP (C)	+ 13.0	VISIBILITY (M)	CLEAR	PH 7.9 LO-ION PAPER	
TOTAL ALKALINITY (PPM)	320	P ALKALINITY (PPM)	<5	M ALKALINITY (PPM)	326

APPEARANCE	CLEAR	DISCHARGE(L/M)	CONFIDENCE	PROBABLE	SOURCE	GEOL. INFERENCE
PRODUCING HORIZON	QPG					

WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	STEEL	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD	12	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSEHOLD	PUMPING FREQUENCY	CONSTANT
DEPTH TO PROD HORIZON(M)	10	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	GEOL. INFERENCE		
WELL DEPTH(M)	12	CONFIDENCE OF WELL DEPTH	PROBABLE	SOURCE OF DEPTH INFORMATION	OWNER		

## REMARKS:

1-38 KARLSTAD 15 MINUTE QUAD, 215243, ED ENOKSON, KARLSTAD, MN, WELL 12 M EAST OF HOUSE, SAMPLED SOUTH SIDE OF HOUSE;  
 1-51 KRET IS PRESENT;  
 1-78 ED ENOKSON & KARLSTAD, MN 56732;

602705	TYPE	WELL WATER	REPLICATE	SAMPLER	DRS	AIR TEMP(C)	+ 25.0	WEATHER	CALM-PT CLDY
	PHASE 2	MAP NM1412	SITE 0085	TIME TAKEN	14/26/08/78	RELIEF	FLAT	VEGETATION	GRASS-MODERATE
	LOCATION:	LAT 48.646( 48 38'45")	LONG 96.510( 96 30'36")	CONTAMINANTS	NONE				
	SURFACE GEOL UNIT	QPG	RESULTS REQ	YES	RELEASED	801031		SAMPLE: COLOR	-CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	528	DISSOLVED OXYGEN(PPM)	1.8
WATER TEMP(C)	+ 16.7	VISIBILITY(M)	CLEAR	PH 7.7	LO-ION PAPER
TOTAL ALKALINITY(PPM)	240	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	244
APPEARANCE	CLEAR	DISCHARGE(L/M)			
PRODUCING HORIZON	QPG	CONFIDENCE	PROBABLE	SOURCE	GEOL. INFERENCE

WELL INFORMATION:

TYPE	DUG	POWER CLASSIFICATION	ELECTRIC	CASING	OTHER	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD	4	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSE/STOCK	PUMPING FREQUENCY	CONSTANT
DEPTH TO PROD HORIZON(M)	0	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	GEOL. INFERENCE		
WELL DEPTH(M)	4	CONFIDENCE OF WELL DEPTH	HIGH	SOURCE OF DEPTH INFORMATION	OWNER		

## REMARKS:

1-38 KARLSTAD 15 MINUTE QUAD, EINAR SJOVALL, KARLSTAD, MN, WELL 1 M NORTH OF HOUSE, SAMPLED KITCHEN;  
 1-51 KRET IS PRESENT;  
 1-78 EINAR SJOVALL & KARLSTAD, MN 56732;  
 3-20 CONCRETE CASING;

602706	TYPE	WELL WATER	REPLICATE	SAMPLER	DRS	AIR TEMP(C)	+ 26.0	WEATHER	CALM-PT CLDY
	PHASE 2	MAP NM1412	SITE 0086	TIME TAKEN	15/26/08/78	RELIEF	FLAT	VEGETATION	GRASS-MODERATE
	LOCATION:	LAT 48.602( 48 36' 7")	LONG 96.516( 96 30'57")	CONTAMINANTS	NONE				
	SURFACE GEOL UNIT	QPG	RESULTS REQ	YES	RELEASED	801031		SAMPLE: COLOR	-CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	596	DISSOLVED OXYGEN(PPM)	1.2
WATER TEMP(C)	+ 11.9	VISIBILITY(M)	CLEAR	PH 7.9	LO-ION PAPER
TOTAL ALKALINITY(PPM)	280	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	288
APPEARANCE	CLEAR	DISCHARGE(L/M)			
PRODUCING HORIZON	QPG	CONFIDENCE	PROBABLE	SOURCE	GEOL. INFERENCE

WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	STEEL	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD	20	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSEHOLD	PUMPING FREQUENCY	CONSTANT

DEPTH TO PROD HORIZON(M) 94 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 95 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 KARLSTAD 15 MINUTE QUAD, T01668, CURTIS ANDERSON, KARLSTAD, MN, WELL 20 M NORTH OF HOUSE, SAMPLED NORTH SIDE OF HOUSE;  
 1-51 KRET IS PRESENT;  
 1-78 CURTIS ANDERSON & KARLSTAD, MN 56732;

602707 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 24.0 WEATHER CALM-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0047 TIME TAKEN 11/26/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.872( 48 52'19") LONG 96.414( 96 24'50") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 970 DISSOLVED OXYGEN(PPM) 2.1  
 WATER TEMP(C) + 11.4 VISIBILITY(M) CLEAR PH 7.0 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 345 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 350  
 APPEARANCE CLEAR DISCHARGE(L/M)  
 PRODUCING HORIZON QPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION ELECTRIC CASING OTHER PIPE COMPOSITION GALVANIZED  
 METERS FROM HEAD 2 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON(M) 3 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH(M) 3 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 JUNE BERRY RIDGE 7.5 MINUTE TOPO, EDWARD L. JOHNSON, LANCASTER, MN, 56735, SAMPLE FROM HYDRANT ON PUMPHOUSE, WELL IS 32 M NW OF HOUSE;  
 1-78 EDWARD L. JOHNSON & LANCASTER, MN., 56735;

602708 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 25.1 WEATHER CALM-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0048 TIME TAKEN 12/26/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.839( 48 50'20") LONG 96.364( 96 21'50") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 620 DISSOLVED OXYGEN(PPM) 1.3  
 WATER TEMP(C) + 8.0 VISIBILITY(M) CLEAR PH 7.3 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 302 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 305  
 APPEARANCE CLEAR DISCHARGE(L/M)  
 PRODUCING HORIZON QPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ARTESIAN CASING GALVANIZED PIPE COMPOSITION GALVANIZED  
 METERS FROM HEAD 0 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY CONSTANT  
 DEPTH TO PROD HORIZON(M) 69 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH(M) 69 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 LEO 7.5 MINUTE TOPO, HENRY SIKORSKI, LANCASTER, MN., 56735, SAMPLE FROM SPILLOVER FOR FLOWING WELL, WELL IS 75M WSW OF HOUSE;  
 1-78 HENRY SIKORSKI & LANCASTER, MN., 56735;

602709 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 26.2 WEATHER CALM-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0049 TIME TAKEN 13/26/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.845( 48 50'42") LONG 96.357( 96 21'25") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 510 DISSOLVED OXYGEN(PPM) 1.8  
 WATER TEMP(C) + 10.8 VISIBILITY(M) CLEAR PH 7.6 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 212 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 215  
 APPEARANCE CLEAR DISCHARGE(L/M) 45.00 SOURCE GEOL. INFERENCE  
 PRODUCING HORIZON QPG CONFIDENCE HIGH

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 32 WITH RESPECT TO PRESSURE TANK AFTER USE STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON(M) 12 CONFIDENCE OF PRODUCING DEPTH HIGH SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 12 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

REMARKS:

1-38 LEO 7.5 MINUTE TOPO, 215199, HENRY SIKORSKI, LANCASTER, MN., 56735, SAMPLE FROM HYDRANT IN BARN, WELL IS 31 M WEST OF BARN;  
 J-78 HENRY SIKORSKI & LANCASTER, MN., 56735.

602710 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 27.1 WEATHER CALM-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0050 TIME TAKEN 14/26/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.904( 48 54'14") LONG 96.370( 96 22'12") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ NO, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 520 DISSOLVED OXYGEN(PPM) 1.5  
 WATER TEMP(C) + 10.9 VISIBILITY(M) CLEAR PH 7.8 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 200 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 200  
 APPEARANCE CLEAR DISCHARGE(L/M) CONFIDENCE HIGH SOURCE GEOL. INFERENCE  
 PRODUCING HORIZON QPG

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 41 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON(M) 30 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION USER  
 WELL DEPTH(M) 30 CONFIDENCE OF WELL DEPTH POSSIBLE SOURCE OF DEPTH INFORMATION USER

REMARKS:

1-38 CARIBOU NE 7.5 MINUTE TOPO, GABRIEL GRUNIG, LANCASTER, MN., 56735, SAMPLE FROM HYDRANT ON NORTH SIDE OF HOUSE, WELL IS 39 M WEST OF HOUSE.

602712 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 28.1 WEATHER CALM-CLEAR  
 PHASE 2 MAP NM1412 SITE 0101 TIME TAKEN 15/26/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.865( 48 51'54") LONG 96.213( 96 12'46") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 600 DISSOLVED OXYGEN(PPM) 1.1  
 WATER TEMP(C) + 9.0 VISIBILITY(M) CLEAR PH 7.5 LO-ION PAPER

TOTAL ALKALINITY (PPM) 215 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 210  
 APPEARANCE CLEAR DISCHARGE (L/M) HIGH SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON (M) 23 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH (M) 23 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 HAUG 7.5 MINUTE TOPO, BOB GRAFF, RT. 2, BOX 93, GREENBUSH, MN., 56726, SAMPLE FROM HYDRANT ON SE CORNER OF HOUSE, WELL IS 29 M SOUTH OF HOUSE;  
 1-78 BOB GRAFF & RT. 2, BOX 93 & GREENBUSH, MN., 56726;  
 3-21 7 M OF COPPER;

602713 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP (C) + 28.2 WEATHER CALM-CLEAR  
 PHASE 2 MAP NM1412 SITE 0102 TIME TAKEN 16/26/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.860 (48 51'36") LONG 96.139 (96 8'20") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 80/031 SAMPLE COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 930 DISSOLVED OXYGEN (PPM) 5.6  
 WATER TEMP (C) + 10.8 VISIBILITY (M) CLEAR PH 7.6 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 270 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 268  
 APPEARANCE CLEAR DISCHARGE (L/M) 208.00 SOURCE GEOL. INFERENCE  
 PRODUCING HORIZON QPG CONFIDENCE HIGH

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON (M) 50 CONFIDENCE OF PRODUCING DEPTH HIGH SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH (M) 55 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

REMARKS:

1-38 HAUG 7.5 MINUTE TOPO, 132179, ORELE VATNSDAL, BADGER, MN., 56714, SAMPLE FROM HYDRANT AFTER PRESSURE TANK IN BASEMENT OF HOUSE, WELL IS 7 M SOUTH OF HOUSE;  
 1-78 ORELE VATNSDAL & BADGER, MN., 56714;  
 3-21 2 M OF COPPER;

602714 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP (C) + 28.4 WEATHER CALM-CLEAR  
 PHASE 2 MAP NM1412 SITE 0103 TIME TAKEN 17/26/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.824 (48 49'26") LONG 96.138 (96 8'16") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ NO, RELEASED 80/031 SAMPLE COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 950 DISSOLVED OXYGEN (PPM) 0.9  
 WATER TEMP (C) + 14.8 VISIBILITY (M) CLEAR PH 7.3 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 300 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 300  
 APPEARANCE CLEAR DISCHARGE (L/M) HIGH SOURCE GEOL. INFERENCE  
 PRODUCING HORIZON QPG CONFIDENCE HIGH

WELL INFORMATION:

TYPE	DUG	POWER CLASSIFICATION	ELECTRIC	CASING OTHER	PIPE COMPOSITION GALVANIZED
METERS FROM HEAD	0	WITH RESPECT TO PRESSURE TANK	NONE	USE HOUSE/STOCK	PUMPING FREQUENCY FREQUENT
DEPTH TO PROD HORIZON(M)	33	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	OWNER
WELL DEPTH(M)	33	CONFIDENCE OF WELL DEPTH	PROBABLE	SOURCE OF DEPTH INFORMATION	OWNER

## REMARKS:

1-38 HAUG 7.5 MINUTE TOPO, ENOCK MELBY, BADGER, MN., 56714, SAMPLE FROM PUMP ON WELL, WELL IS 29 M EAST OF HOUSE;  
3-20 CEMENT CASING;

602715	TYPE WELL WATER	REPLICATE	SAMPLER GJG	AIR TEMP(C)	+ 28.6	WEATHER CALM-CLEAR
	PHASE 2	MAP NM1412	SITE 0104	TIME TAKEN	18/26/08/78	RELIEF FLAT
	LOCATION: LAT	48.805 (48 48' 18")	LONG	96.224 (96 13' 26")		VEGETATION GRASS-MODERATE
	SURFACE GEOL UNIT	QPG	RESULTS REQ	YES	RELEASED	801031
						SAMPLE: COLOR - -CL
						ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY (MICROMHOS/CM)	770	DISSOLVED OXYGEN (PPM)	0.9
WATER TEMP (C)	+ 8.5	VISIBILITY (M)	CLEAR	PH 7.5	LO-ION PAPER
TOTAL ALKALINITY (PPM)	285	P ALKALINITY (PPM)	<5	M ALKALINITY (PPM)	290
APPEARANCE	CLEAR	DISCHARGE (L/M)	265.00		
PRODUCING HORIZON	QPG	CONFIDENCE	HIGH	SOURCE	GEOL. INFERENCE

## WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ARTESIAN	CASING STEEL	PIPE COMPOSITION GALVANIZED
METERS FROM HEAD	2	WITH RESPECT TO PRESSURE TANK	AFTER	USE HOUSE/STOCK	PUMPING FREQUENCY FREQUENT
DEPTH TO PROD HORIZON(M)	35	CONFIDENCE OF PRODUCING DEPTH	HIGH	SOURCE OF PRODUCING INFORMATION	GEOL. INFERENCE
WELL DEPTH(M)	44	CONFIDENCE OF WELL DEPTH	HIGH	SOURCE OF DEPTH INFORMATION	GEOL. INFERENCE

## REMARKS:

1-38 HAUG 7.5 MINUTE TOPO, 215181, JOE NOVAK, RT.2, GREENBUSH, MN., 56726, SAMPLE FROM HYDRANT ON WELHOUSE, WELL IS 32 M SOUTH OF HOUSE;  
1-78 JOE NOVAK & RT.2 & GREENBUSH, MN., 56726;

602716	TYPE WELL WATER	REPLICATE	SAMPLER GJG	AIR TEMP(C)	+ 28.6	WEATHER CALM-CLEAR
	PHASE 2	MAP NM1412	SITE 0105	TIME TAKEN	19/26/08/78	RELIEF FLAT
	LOCATION: LAT	48.768 (48 46' 4")	LONG	96.292 (96 17' 31")		VEGETATION GRASS-MODERATE
	SURFACE GEOL UNIT	QPG	RESULTS REQ	YES	RELEASED	801031
						SAMPLE: COLOR - -CL
						ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY (MICROMHOS/CM)	640	DISSOLVED OXYGEN (PPM)	1.9
WATER TEMP (C)	+ 9.3	VISIBILITY (M)	CLEAR	PH 7.8	LO-ION PAPER
TOTAL ALKALINITY (PPM)	296	P ALKALINITY (PPM)	<5	M ALKALINITY (PPM)	295
APPEARANCE	CLEAR	DISCHARGE (L/M)	252.00		
PRODUCING HORIZON	QPG	CONFIDENCE	HIGH	SOURCE	GEOL. INFERENCE

## WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING STEEL	PIPE COMPOSITION PLASTIC
METERS FROM HEAD	3	WITH RESPECT TO PRESSURE TANK	AFTER	USE HOUSEHOLD	PUMPING FREQUENCY INFREQUENT
DEPTH TO PROD HORIZON(M)	27	CONFIDENCE OF PRODUCING DEPTH	HIGH	SOURCE OF PRODUCING INFORMATION	GEOL. INFERENCE
WELL DEPTH(M)	41	CONFIDENCE OF WELL DEPTH	HIGH	SOURCE OF DEPTH INFORMATION	GEOL. INFERENCE

## REMARKS:

1-38 LEO 7.5 MINUTE TOPO, 215175, CHESTER NOVACEK, GREENBUSH, MN., 56726, SAMPLE FROM HYDRANT 2 M SOUTH OF WELL, WELL IS ONE METER EAST OF HOUSE;



1-78 CHESTER NOVACEK & GREENBUSH, MN., 56726

602717 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP (C) + 18.1 WEATHER CALM-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0106 TIME TAKEN 09/28/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.487 (48 29' 13") LONG 96.022 (96 1' 19") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 830 DISSOLVED OXYGEN (PPM) 1.1  
 WATER TEMP (C) + 11.1 VISIBILITY (M) CLEAR PH 7.1 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 360 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 370  
 APPEARANCE CLEAR DISCHARGE (L/M)  
 PRODUCING HORIZON QPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION GALVANIZED  
 METERS FROM HEAD 1 WITH RESPECT TO PRESSURE TANK BEFORE USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON (M) 15 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH (M) 16 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 MIDDLE RIVER NE 7.5 MINUTE TOPO, SANFORD ANDERSON, MIDDLE RIVER, MN., 56737, SAMPLE FROM TAP JUST BEFORE PRESSURE TANK IN PUMPHOUSE, WELL 15 52M NW OF HOUSE;  
 1-78 SANFORD ANDERSON & MIDDLE RIVER, MN., 56737;

602718 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP (C) + 19.0 WEATHER CALM-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0107 TIME TAKEN 10/28/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.443 (48 26' 34") LONG 96.024 (96 1' 26") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ NO, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 550 DISSOLVED OXYGEN (PPM) 1.0  
 WATER TEMP (C) + 7.8 VISIBILITY (M) CLEAR PH 7.7 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 250 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 245  
 APPEARANCE CLEAR DISCHARGE (L/M)  
 PRODUCING HORIZON QPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION GALVANIZED  
 METERS FROM HEAD 1 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON (M) 32 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH (M) 32 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 MIDDLE RIVER NE 7.5 MINUTE TOPO, DON OSSE, MIDDLE RIVER, MN., 56737, SAMPLE FROM HYDRANT ON NW CORNER OF GARAGE, WELL 15 IN NW CORNER OF GARAGE;

602719 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP (C) + 21.0 WEATHER CALM-CLEAR  
 PHASE 2 MAP NM1412 SITE 0087 TIME TAKEN 14/28/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.302 (48 18' 7") LONG 97.108 (97 6' 28") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QAL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY (MICROMHOS/CM)	938	DISSOLVED OXYGEN (PPM)	0.7
WATER TEMP (C)	+ 10.4	VISIBILITY (M)	CLEAR	PH 6.8	LO-ION PAPER
TOTAL ALKALINITY (PPM)	216	P ALKALINITY (PPM)	<5	M ALKALINITY (PPM)	214
APPEARANCE	CLEAR	DISCHARGE (L/M)			
PRODUCING HORIZON	OPG	CONFIDENCE	PROBABLE	SOURCE	GEOL. INFERENCE

## WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ARTESIAN	CASING	STEEL	PIPE COMPOSITION	STEEL
METERS FROM HEAD	0	WITH RESPECT TO PRESSURE TANK	NONE	USE	HOUSEHOLD	PUMPING FREQUENCY	CONSTANT
DEPTH TO PROD HORIZON (M)	45	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION		GEOL. INFERENCE	
WELL DEPTH (M)	46	CONFIDENCE OF WELL DEPTH	PROBABLE	SOURCE OF DEPTH INFORMATION			

## REMARKS:

1-38 BIG WOODS 7.5 MINUTE QUAD, NEWELL AAS, OSLO, MN. WELL LOCATED IN PUMPHOUSE, SAMPLED OVERFLOW OUTLET ON EAST SIDE:  
 1-51 KRET IS PRESENT;  
 1-78 NEWELL AAS & OSLO, MN. 56744;

602720	TYPE WELL WATER	REPLICATE	SAMPLER DRS	AIR TEMP (C)	+ 23.0	WEATHER	LT WIND-PT CLDY
	PHASE 2	MAP NM1412	SITE 0088	TIME TAKEN	15/28/08/78	RELIEF	FLAT
	LOCATION: LAT	46.225 (48 13' 30")	LONG	97.107 (97 6' 25")		CONTAMINANTS	NONE
	SURFACE GEOL UNIT	QAL	RESULTS REQ	YES	RELEASED	801031	
						SAMPLE	COLOR - -CL - ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY (MICROMHOS/CM)	990	DISSOLVED OXYGEN (PPM)	0.7
WATER TEMP (C)	+ 10.7	VISIBILITY (M)	CLEAR	PH 6.9	LO-ION PAPER
TOTAL ALKALINITY (PPM)	218	P ALKALINITY (PPM)	<5	M ALKALINITY (PPM)	230
APPEARANCE	CLEAR	DISCHARGE (L/M)			
PRODUCING HORIZON	OPG	CONFIDENCE	PROBABLE	SOURCE	GEOL. INFERENCE

## WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ARTESIAN	CASING	STEEL	PIPE COMPOSITION	STEEL
METERS FROM HEAD	0	WITH RESPECT TO PRESSURE TANK	NONE	USE	HOUSEHOLD	PUMPING FREQUENCY	CONSTANT
DEPTH TO PROD HORIZON (M)	45	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION		GEOL. INFERENCE	
WELL DEPTH (M)	46	CONFIDENCE OF WELL DEPTH	PROBABLE	SOURCE OF DEPTH INFORMATION		OWNER	

## REMARKS:

1-38 OSLO NE 7.5 MINUTE QUAD, RICHARD OLIND, OSLO, MN. WELL 5M NORTH OF BARN, SAMPLED AT HEAD:  
 1-51 KRET IS PRESENT;  
 1-78 RICHARD OLIND & OSLO, MN. 56744;

602721	TYPE WELL WATER	REPLICATE	SAMPLER DRS	AIR TEMP (C)	+ 18.0	WEATHER	LT WIND-PJ CLDY
	PHASE 2	MAP NM1412	SITE 0089	TIME TAKEN	10/29/08/78	RELIEF	FLAT
	LOCATION: LAT	48.509 (48 30' 32")	LONG	96.764 (96 45' 50")		CONTAMINANTS	NONE
	SURFACE GEOL UNIT	QTL	RESULTS REQ	YES	RELEASED	801031	
						SAMPLE: COLOR	- -CL - ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY (MICROMHOS/CM)	1239	DISSOLVED OXYGEN (PPM)	0.6
WATER TEMP (C)	+ 10.5	VISIBILITY (M)	CLEAR	PH	LO-ION PAPER 7.0
TOTAL ALKALINITY (PPM)	472	P ALKALINITY (PPM)	35	M ALKALINITY (PPM)	490
APPEARANCE	CLEAR	DISCHARGE (L/M)			
PRODUCING HORIZON	QIL	CONFIDENCE	PROBABLE	SOURCE	GEOL. INFERENCE

WELL INFORMATION:

TYPE	DUG	POWER CLASSIFICATION	ELECTRIC	CASING	GALVANIZED	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD	0	WITH RESPECT TO PRESSURE TANK	NONE	USE	STOCK	PUMPING FREQUENCY	INFREQUENT
DEPTH TO PROD HORIZON(M)	0	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	GEOLOGICAL INFERENCE		
WELL DEPTH(M)	3	CONFIDENCE OF WELL DEPTH	POSSIBLE	SOURCE OF DEPTH INFORMATION	OWNER		

REMARKS:

1-38 KENNEDY SE 7.5 MINUTE QUAD, KENNETH JOHNSON, STEPHEN, MN, WELL 2M SOUTH OF QUONSET SHED, SAMPLED AT HEAD;

1-51 KRET IS PRESENT;

1-78 KENNETH JOHNSON & STEPHEN, MN, 56757;

602722	TYPE WELL WATER	REPLICATE	SAMPLER DRS	AIR TEMP(C)	+ 21.0	WEATHER	LT WIND-PT CLDY
PHASE 2 MAP NM1412 SITE 0090 TIME TAKEN 14/29/08/78				RELIEF	FLAT	VEGETATION	GRASS-MODERATE
LOCATION: LAT 48.336 (48 20' 9") LONG 96.786 (96 47' 9")				CONTAMINANTS	NONE		
SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031				SAMPLE: COLOR - -CL - -ODOR NONE			

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	369	DISSOLVED OXYGEN(PPM)	3.3
WATER TEMP(C)	+ 10.0	VISIBILITY(M)	CLEAR	PH 7.5	LO-ION PAPER
TOTAL ALKALINITY(PPM)	256	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	276
APPEARANCE	CLEAR	DISCHARGE(L/M)			
PRODUCING HORIZON	OPG	CONFIDENCE	PROBABLE	SOURCE GEOLOGICAL INFERENCE	

WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	STEEL	PIPE COMPOSITION	STEEL
METERS FROM HEAD	1	WITH RESPECT TO PRESSURE TANK	BEFORE	USE	MUNICIPAL	PUMPING FREQUENCY	CONSTANT
DEPTH TO PROD HORIZON(M)	12	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	GEOLOGICAL INFERENCE		
WELL DEPTH(M)	21	CONFIDENCE OF WELL DEPTH	HIGH	SOURCE OF DEPTH INFORMATION	OWNER		

REMARKS:

1-38 STEPHEN 15 MINUTE QUAD, 105670, CITY OF ARGYLE, ARGYLE, MN, WELL IN PUMPHOUSE, SAMPLED AT HEAD;

1-51 KRET IS PRESENT;

1-78 DANIEL DURAND & CITY OF ARGYLE & ARGYLE, MN 56713;

602723	TYPE WELL WATER	REPLICATE	SAMPLER DRS	AIR TEMP(C)	+ 21.0	WEATHER	LT WIND-PT CLDY
PHASE 2 MAP NM1412 SITE 0091 TIME TAKEN 15/29/08/78				RELIEF	FLAT	VEGETATION	GRASS-MODERATE
LOCATION: LAT 48.324 (48 19' 26") LONG 96.935 (96 56' 6")				CONTAMINANTS	NONE		
SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031				SAMPLE: COLOR - -CL - -ODOR NONE			

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	410	DISSOLVED OXYGEN(PPM)	0.6
WATER TEMP(C)	+ 11.6	VISIBILITY(M)	CLEAR	PH 7.3	LO-ION PAPER
TOTAL ALKALINITY(PPM)	230	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	216
APPEARANCE	CLEAR	DISCHARGE(L/M)			
PRODUCING HORIZON	OPG	CONFIDENCE	PROBABLE	SOURCE GEOLOGICAL INFERENCE	

WELL INFORMATION:

TYPE	UNKNOWN	POWER CLASSIFICATION	OTHER	CASING	GALVANIZED	PIPE COMPOSITION	OTHER
METERS FROM HEAD	0	WITH RESPECT TO PRESSURE TANK	NONE	USE	NONE	PUMPING FREQUENCY	RARE
DEPTH TO PROD HORIZON(M)	21	CONFIDENCE OF PRODUCING DEPTH	POSSIBLE	SOURCE OF PRODUCING INFORMATION	GEOLOGICAL INFERENCE		
WELL DEPTH(M)	28	CONFIDENCE OF WELL DEPTH	PROBABLE	SOURCE OF DEPTH INFORMATION	OWNER		

REMARKS:

1-38 STEPHEN 15 MINUTE QUAD, EDWARD PAGNAC, ARGYLE, MN, WELL 10M EAST OF GARAGE, SAMPLED INSIDE CASING;  
 1-51 KRET IS PRESENT;  
 1-78 EDWARD PAGNAC & ARGYLE, MN 56713;  
 3-19 HAND BUCKET DIP POWER;  
 3-21 NO PIPE;

602724 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 18.0 WEATHER CALM-CLEAR  
 PHASE 2 MAP NM1412 SITE 0092 TIME TAKEN 10/30/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.487 (48 29' 13") LONG 96.646 (96 38' 45") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 562 DISSOLVED OXYGEN(PPM) 0.1  
 WATER TEMP(C) + 12.4 VISIBILITY(M) CLEAR PH 7.2 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 388 P ALKALINITY(PPM) 45 M ALKALINITY(PPM) 400  
 APPEARANCE CLEAR DISCHARGE(L/M) PROBABLE SOURCE GEOL. INFERENCE  
 PRODUCING HORIZON QPG CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 1 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY CONSTANT  
 DEPTH TO PROD HORIZON(M) 18 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 21 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 FLORIAN 15 MINUTE QUAD, 101695, LARRY DJZENGAL, STEPHEN, MN, WELL IN PUMPHOUSE, SAMPLED IN PUMPHOUSE;  
 1-51 KRET IS PRESENT;  
 1-78 LARRY DJZENGAL & STRANDQUIST, MN 56758;

602725 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 19.0 WEATHER CALM-CLEAR  
 PHASE 2 MAP NM1412 SITE 0093 TIME TAKEN 11/30/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.501 (48 30' 3") LONG 96.717 (96 43' 1") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 894 DISSOLVED OXYGEN(PPM) 3.6  
 WATER TEMP(C) + 9.6 VISIBILITY(M) CLEAR PH 7.4 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 620 P ALKALINITY(PPM) 35 M ALKALINITY(PPM) 630  
 APPEARANCE CLEAR DISCHARGE(L/M) PROBABLE SOURCE GEOL. INFERENCE  
 PRODUCING HORIZON QTL CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION HAND CASING OTHER PIPE COMPOSITION OTHER  
 METERS FROM HEAD 0 WITH RESPECT TO PRESSURE TANK NONE USE NONE PUMPING FREQUENCY RARE  
 DEPTH TO PROD HORIZON(M) 5 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 6 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 KARLSTAD 15 MINUTE QUAD, MRS. ALBERT CARLSON, STEPHEN, MN, WELL 40M SW OF HOUSE, SAMPLED INSIDE CASING;  
 1-51 KRET IS PRESENT;  
 1-78 MRS. ALBERT CARLSON & STEPHEN, MN 56757;  
 3-20 CONCRETE CASING;  
 3-21 NO PIPE, BUCKET LIFT;

602726 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 20.0 WEATHER LT WIND-CLEAR  
 PHASE 2 MAP NM1412 SITE 0094 TIME TAKEN 11/30/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.460 ( 48 27'36" ) LONG 96.709 ( 96 42'32" ) CONTAMINANTS NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ YES , RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 486 DISSOLVED OXYGEN(PPM) 2.9  
 WATER TEMP(C) + 9.7 VISIBILITY(M) CLEAR PH 7.4 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 390 P ALKALINITY(PPM) 45 M ALKALINITY(PPM) 400  
 APPEARANCE CLEAR DISCHARGE(L/M)  
 PRODUCING HORIZON QPG CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 1 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY CONSTANT  
 DEPTH TO PROD HORIZON(M) 14 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 16 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION OWNER

## REMARKS:

1-38 FLORIAN 15 MINUTE QUAD, 215371, ROMAN KOSTRZEWSKI, STEPHEN, MN, WELL IN PUMPHOUSE, SAMPLED EAST SIDE OF PUMPHOUSE;  
 1-51 KRET IS PRESENT;  
 1-78 ROMAN KOSTRZEWSKI & STEPHEN, MN 56757;

602727 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 20.0 WEATHER LT WIND-CLEAR  
 PHASE 2 MAP NM1412 SITE 0095 TIME TAKEN 12/30/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.443 ( 48 26'34" ) LONG 96.626 ( 96 37'33" ) CONTAMINANTS NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ YES , RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 657 DISSOLVED OXYGEN(PPM) 0.1  
 WATER TEMP(C) + 14.1 VISIBILITY(M) CLEAR PH 8.1 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 332 P ALKALINITY(PPM) 45 M ALKALINITY(PPM) 346  
 APPEARANCE CLEAR DISCHARGE(L/M)  
 PRODUCING HORIZON QPG CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 50 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON(M) 60 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 62 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

## REMARKS:

1-38 FLORIAN 15 MINUTE QUAD, 215368, ASSUMPTION CHURCH, FLORIAN, MN, WELL LOCATION NOT CERTAIN, SAMPLED WEST SIDE OF PARSONAGE;  
 1-51 KRET IS PRESENT;  
 1-78 ASSUMPTION CHURCH & STRANDQUIST, MN 56758;

602728 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 21.0 WEATHER CALM-CLEAR  
 PHASE 2 MAP NM1412 SITE 0096 TIME TAKEN 13/30/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.414 ( 48 24'50" ) LONG 96.638 ( 96 38'16" ) CONTAMINANTS NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ YES , RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 695 DISSOLVED OXYGEN(PPM) 1.0

WATER TEMP(C) + 14.0 VISIBILITY(M) CLEAR PH 7.8 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 600 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 600  
 APPEARANCE CLEAR DISCHARGE(L/M)  
 PRODUCING HORIZON QPG CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:  
 TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY CONSTANT  
 DEPTH TO PROD HORIZON(M) 12 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 14 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION OWNER

REMARKS:  
 1-38 FLORIAN 15 MINUTE QUAD, 215359, VIRGIL SETTERHOLM, ARGYLE, MN, WELL IN PUMPHOUSE, SAMPLED HYDRANT 15M NW OF PUMPHOUSE;  
 1-51 KRET IS PRESENT;  
 1-78 VIRGIL SETTERHOLM & ARGYLE, MN 56713;

602729 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 21.0 WEATHER CALM-CLEAR  
 PHASE 2 MAP NM1412 SITE 0097 TIME TAKEN 13/30/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.400( 48 24' 0") LONG 96.697( 96 41' 49") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:  
 TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 884 DISSOLVED OXYGEN(PPM) 2.2  
 WATER TEMP(C) + 14.2 VISIBILITY(M) CLEAR PH 8.2 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 488 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 490  
 APPEARANCE CLEAR DISCHARGE(L/M)  
 PRODUCING HORIZON QPG CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:  
 TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 75 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY CONSTANT  
 DEPTH TO PROD HORIZON(M) 12 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 15 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:  
 1-38 FLORIAN 15 MINUTE QUAD, CONRAD HAPKA, ARGYLE, MN, WELL 20 M WEST OF OLD HOUSE, SAMPLED EAST SIDE OF HOUSE;  
 1-51 KRET IS PRESENT;  
 1-78 CONRAD HAPKA & ARGYLE, MN 56713;

602730 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 21.0 WEATHER CALM-CLEAR  
 PHASE 2 MAP NM1412 SITE 0098 TIME TAKEN 14/30/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.371( 48 22' 15") LONG 96.692( 96 41' 31") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:  
 TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 1478 DISSOLVED OXYGEN(PPM) 1.5  
 WATER TEMP(C) + 16.1 VISIBILITY(M) CLEAR PH 7.8 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 118 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 122  
 APPEARANCE CLEAR DISCHARGE(L/M)  
 PRODUCING HORIZON QPG CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:  
 TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC

METERS FROM HEAD	20	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSEHOLD	PUMPING FREQUENCY	FREQUENT
DEPTH TO PROD HORIZON(M)	90	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	GEOL. INFERENCE		
WELL DEPTH(M)	93	CONFIDENCE OF WELL DEPTH	HIGH	SOURCE OF DEPTH INFORMATION	OWNER		

## REMARKS:

1-38 FLORIAN 15 MINUTE QUAD 101657, JOHN GOSTANCZIK, ARGYLE, MN, WELL IN PUMPHOUSE, SAMPLED KITCHEN;  
 1-51 KRET IS PRESENT;  
 1-78 JOHN GOSTANCZIK & ARGYLE, MN 56713;

602731	TYPE WELL WATER	REPLICATE	SAMPLER GJG	AIR TEMP(C) + 20.1	WEATHER CALM-PT CLDY	
	PHASE 2	MAP NM1412	SITE 0108	TIME TAKEN 11/28/08/78	RELIEF FLAT	VEGETATION GRASS-MODERATE
	LOCATION: LAT 48.412( 48 24'43")		LONG 96.036( 96 2' 9")		CONTAMINANTS NONE	
	SURFACE GEOL UNIT OPG		RESULTS REQ YES	RELEASED 801031	SAMPLE: COLOR - -CL	ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE		CONDUCTIVITY(MICROMHOS/CM)	540	DISSOLVED OXYGEN(PPM)	L.Q.
WATER TEMP(C)	+ 12.3	VISIBILITY(M)	CLEAR	PH 7.7	LO-ION PAPER
TOTAL ALKALINITY(PPM)	250	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	250
APPEARANCE	CLEAR	DISCHARGE(L/M)			
PRODUCING HORIZON	OPG	CONFIDENCE	HIGH	SOURCE	GEOL. INFERENCE

## WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	STEEL	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD	47	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSE/STOCK	PUMPING FREQUENCY	FREQUENT
DEPTH TO PROD HORIZON(M)	43	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	OWNER		
WELL DEPTH(M)	43	CONFIDENCE OF WELL DEPTH	PROBABLE	SOURCE OF DEPTH INFORMATION	OWNER		

## REMARKS:

1-38 MIDDLE RIVER NE 7.5 MINUTE TOPO, FRED MAGNUSON, MIDDLE RIVER, MN., 56737, SAMPLE FROM KITCHEN TAP, WELL IS 43 M NNE OF HOUSE;  
 1-78 FRED MAGNUSON & MIDDLE RIVER, MN., 56737;

602732	TYPE WELL WATER	REPLICATE	SAMPLER GJG	AIR TEMP(C) + 20.8	WEATHER LT WIND-PT CLDY	
	PHASE 2	MAP NM1412	SITE 0109	TIME TAKEN 12/28/08/78	RELIEF FLAT	VEGETATION GRASS-MODERATE
	LOCATION: LAT 48.444( 48 26'38")		LONG 96.081( 96 4'51")		CONTAMINANTS NONE	
	SURFACE GEOL UNIT OPG		RESULTS REQ YES	RELEASED 801031	SAMPLE: COLOR - -CL	ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE		CONDUCTIVITY(MICROMHOS/CM)	660	DISSOLVED OXYGEN(PPM)	4.8
WATER TEMP(C)	+ 12.1	VISIBILITY(M)	CLEAR	PH 7.9	LO-ION PAPER
TOTAL ALKALINITY(PPM)	230	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	230
APPEARANCE	CLEAR	DISCHARGE(L/M)			
PRODUCING HORIZON	OPG	CONFIDENCE	HIGH	SOURCE	GEOL. INFERENCE

## WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	STEEL	PIPE COMPOSITION	COPPER
METERS FROM HEAD	25	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSEHOLD	PUMPING FREQUENCY	FREQUENT
DEPTH TO PROD HORIZON(M)	15	CONFIDENCE OF PRODUCING DEPTH	POSSIBLE	SOURCE OF PRODUCING INFORMATION	OWNER		
WELL DEPTH(M)	15	CONFIDENCE OF WELL DEPTH	POSSIBLE	SOURCE OF DEPTH INFORMATION	OWNER		

## REMARKS:

1-38 MIDDLE RIVER NE 7.5 MINUTE TOPO, ART KOLDEN, MIDDLE RIVER, MN., 56737, SAMPLE FROM HYDRANT ON SOUTH SIDE OF HOUSE, WELL IS 12 M NNE OF HOUSE;

1-78 ART KOLDEN & MIDDLE RIVER, MN., 56737;  
3-21 12 M OF PLASTIC;

602733 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 20.9 WEATHER LT WIND-PT CLDY  
PHASE 2 MAP NM1412 SITE 0110 TIME TAKEN 13/28/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
LOCATION: LAT 48.444 ( 48 26' 38" ) LONG 96.081 ( 96 4' 51" ) CONTAMINANTS NONE  
SURFACE GEOL UNIT QPG RESULTS REQ YES ,RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 795 DISSOLVED OXYGEN(PPM) L.4  
WATER TEMP(C) + 6.3 VISIBILITY(M) CLEAR PH 8.0 LO-ION PAPER  
TOTAL ALKALINITY(PPM) 195 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 190  
APPEARANCE CLEAR DISCHARGE(L/M)  
PRODUCING HORIZON QPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION STEEL  
METERS FROM HEAD 0 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY INFREQUENT  
DEPTH TO PROD HORIZON(M) 27 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER  
WELL DEPTH(M) 27 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 MIDDLE RIVER NE 7.5 MINUTE TOPO, ART KOLDEN, MIDDLE RIVER, MN., 56737, SAMPLE FROM PUMP ON WELL, WELL IS 84 M SSE OF HOUSE;  
1-78 ART KOLDEN & MIDDLE RIVER, MN., 56737;

602734 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 21.0 WEATHER LT WIND-CLEAR  
PHASE 2 MAP NM1412 SITE 0111 TIME TAKEN 14/28/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
LOCATION: LAT 48.435 ( 48 26' 6" ) LONG 96.162 ( 96 9' 43" ) CONTAMINANTS OTHER  
SURFACE GEOL UNIT QPG RESULTS REQ NO ,RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 730 DISSOLVED OXYGEN(PPM) 2.3  
WATER TEMP(C) + 17.7 VISIBILITY(M) CLEAR PH 7.6 LO-ION PAPER  
TOTAL ALKALINITY(PPM) 300 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 300  
APPEARANCE CLEAR DISCHARGE(L/M) 628.00  
PRODUCING HORIZON QPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION STEEL  
METERS FROM HEAD 1 WITH RESPECT TO PRESSURE TANK BEFORE USE MUNICIPAL PUMPING FREQUENCY FREQUENT  
DEPTH TO PROD HORIZON(M) 69 CONFIDENCE OF PRODUCING DEPTH HIGH SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
WELL DEPTH(M) 73 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

REMARKS:

1-38 MIDDLE RIVER 7.5 MINUTE TOPO, 103181, CITY OF MIDDLE RIVER, MIDDLE RIVER, MN., 56737, CITY WELL NO. ONE, WELL IS ABOUT 100 M ESE OF WATER TOWER, SAMPLE FROM TAP ON WELL HEAD;  
1-60 POSSIBLE THAT SAMPLE IS CHLORINATED;

602735 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 21.2 WEATHER LT WIND-PT CLDY  
PHASE 2 MAP NM1412 SITE 0112 TIME TAKEN 15/28/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE



LOCATION: LAT 48.495 (48 29' 42") LONG 96.166 (96 9' 57")  
 SURFACE GEOL UNIT QPG RESULTS REQ NO , RELEASED 801031

CONTAMINANTS NONE

SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 570 DISSOLVED OXYGEN (PPM) 1.4  
 WATER TEMP (C) + 8.5 VISIBILITY (M) CLEAR PH 8.0 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 240 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 240  
 APPEARANCE CLEAR DISCHARGE (L/M)  
 PRODUCING HORIZON QPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION GALVANIZED  
 METERS FROM HEAD 1 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON (M) 35 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH (M) 37 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

## REMARKS:

J-38 MIDDLE RIVER 7.5 MINUTE TOPO, EARL ANDERSON, STRATHCONA, MN., 56759, SAMPLE FROM HYDRANT ON PUMPHOUSE, WELL IS 1/8 M EAST OF HOUSE:

602736 TYPE WELL WATER REPLICATE SAMPLER GJG  
 PHASE 2 MAP NM1412 SITE 0113 TIME TAKEN 16/28/08/78  
 LOCATION: LAT 48.537 (48 32' 13") LONG 96.167 (96 10' 1")  
 SURFACE GEOL UNIT QPG RESULTS REQ YES , RELEASED 801031

AIR TEMP (C) + 21.4 WEATHER LT WIND-PT CLDY  
 RELIEF FLAT VEGETATION GRASS-MODERATE  
 CONTAMINANTS NONE

SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 645 DISSOLVED OXYGEN (PPM) 0.6  
 WATER TEMP (C) + 7.9 VISIBILITY (M) CLEAR PH 8.0 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 240 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 240  
 APPEARANCE CLEAR DISCHARGE (L/M)  
 PRODUCING HORIZON QPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 3 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON (M) 59 CONFIDENCE OF PRODUCING DEPTH HIGH SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH (M) 61 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION OWNER

## REMARKS:

J-38 STRATHCONA 7.5 MINUTE TOPO, NORMAN JOHNSON, STRATHCONA, MN., 56759, SAMPLE FROM HYDRANT ONE METER SW OF WELL, WELL IS 20 M NE OF HOUSE:  
 I-78 NORMAN JOHNSON & STRATHCONA, MN., 56759:

602737 TYPE WELL WATER REPLICATE SAMPLER GJG  
 PHASE 2 MAP NM1412 SITE 0114 TIME TAKEN 17/28/08/78  
 LOCATION: LAT 48.532 (48 31' 55") LONG 96.102 (96 6' 7")  
 SURFACE GEOL UNIT QPG RESULTS REQ NO , RELEASED 801031

AIR TEMP (C) + 21.8 WEATHER LT WIND-PT CLDY  
 RELIEF FLAT VEGETATION GRASS-MODERATE  
 CONTAMINANTS NONE

SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 750 DISSOLVED OXYGEN (PPM) 4.4  
 WATER TEMP (C) + 9.5 VISIBILITY (M) CLEAR PH 7.4 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 240 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 240  
 APPEARANCE CLEAR DISCHARGE (L/M)

PRODUCING HORIZON OPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRIVE POINT POWER CLASSIFICATION ELECTRIC CASING GALVANIZED PIPE COMPOSITION COPPER
METERS FROM HEAD WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY FREQUENT
DEPTH TO PROD HORIZON(M) 4 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER
WELL DEPTH(M) 4 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

J-38 GREENBUSH SE 7.5 MINUTE TPOD, WALTER BEITO, STRATHCONA, MN, 56759, SAMPLE FROM KITCHEN TAP, WELL IS UNDER NE CORNER OF HOUSE;

602738 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 22.0 WEATHER LT WIND-PT CLDY
PHASE 2 MAP NM1412 SITE 0115 TIME TAKEN 18/28/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE
LOCATION: LAT 48.530 (48 31'48") LONG 96.013 (96 0'46") CONTAMINANTS NONE
SURFACE GEOL UNIT OPG RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 750 DISSOLVED OXYGEN(PPM) 1.4
WATER TEMP(C) + 9.5 VISIBILITY(M) CLEAR PH 7.2 LO-ION PAPER
TOTAL ALKALINITY(PPM) 240 P ALKALINITY(PPM) 5 M ALKALINITY(PPM) 240
APPEARANCE CLEAR DISCHARGE(L/M)
PRODUCING HORIZON OPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC
METERS FROM HEAD WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT
DEPTH TO PROD HORIZON(M) 39 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER
WELL DEPTH(M) 40 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

J-38 GREENBUSH SE 7.5 MINUTE TPOD, PALMER BEITO, MIDDLE RIVER, MN, 56737, SAMPLE FROM HYDRANT ON PUMPHOUSE, WELL IS 30 M NE OF HOUSE;
J-78 PALMER BEITO & MIDDLE RIVER, MN, 56737;

602739 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 22.4 WEATHER LT WIND-PT CLDY
PHASE 2 MAP NM1412 SITE 0116 TIME TAKEN 19/28/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE
LOCATION: LAT 48.481 (48 28'51") LONG 96.102 (96 6' 7") CONTAMINANTS NONE
SURFACE GEOL UNIT OPG RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 895 DISSOLVED OXYGEN(PPM) 0.9
WATER TEMP(C) + 14.3 VISIBILITY(M) CLEAR PH 7.3 LO-ION PAPER
TOTAL ALKALINITY(PPM) 240 P ALKALINITY(PPM) 5 M ALKALINITY(PPM) 240
APPEARANCE CLEAR DISCHARGE(L/M)
PRODUCING HORIZON OPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRIVE POINT POWER CLASSIFICATION ELECTRIC CASING GALVANIZED PIPE COMPOSITION COPPER
METERS FROM HEAD WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY FREQUENT
DEPTH TO PROD HORIZON(M) 4 CONFIDENCE OF PRODUCING DEPTH HIGH SOURCE OF PRODUCING INFORMATION OWNER
WELL DEPTH(M) 4 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION OWNER

## REMARKS:

1-38 MIDDLE RIVER NE 7.5 MINUTE TOPO, MARVIN JOHNSON, MIDDLE RIVER, MN., 56737, SAMPLE FROM KITCHEN TAP, WELL IS UNDER NORTH PART OF HOUSE;  
 J-78 MARVIN JOHNSON & MIDDLE RIVER, MN., 56737;

602740 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 15.0 WEATHER LT WIND-CLEAR  
 PHASE 2 MAP NM1412 SITE 0117 TIME TAKEN 09/29/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.455( 48 27'18") LONG 96.232( 96 13'55") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ NO ,RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 650 DISSOLVED OXYGEN(PPM) 4.5  
 WATER TEMP(C) + 13.2 VISIBILITY(M) CLEAR PH 7.2 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 250 P. ALKALINITY(PPM) 35 M. ALKALINITY(PPM) 260  
 APPEARANCE CLEAR DISCHARGE(L/M)  
 PRODUCING HORIZON QPG CONFIDENCE HIGH SOURCE GEOL INFERENCE

## WELL INFORMATION:

TYPE DRIVE POINT POWER CLASSIFICATION HAND CASING GALVANIZED PIPE COMPOSITION GALVANIZED  
 METERS FROM HEAD 0 WITH RESPECT TO PRESSURE TANK NONE USE HOUSEHOLD PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON(M) 3 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH(M) 3 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

## REMARKS:

1-38 MIDDLE RIVER 7.5 MINUTE TOPO, ROBERT LORANGER, MIDDLE RIVER, MN., 56737, SAMPLE FROM HAND PUMP IN KITCHEN, WELL IS UNDER KITCHEN;

602741 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 16.0 WEATHER LT WIND-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0118 TIME TAKEN 09/29/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.443( 48 26'34") LONG 96.309( 96 18'32") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ YES ,RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 575 DISSOLVED OXYGEN(PPM) 2.1  
 WATER TEMP(C) + 6.9 VISIBILITY(M) CLEAR PH 7.5 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 300 P. ALKALINITY(PPM) 35 M. ALKALINITY(PPM) 295  
 APPEARANCE CLEAR DISCHARGE(L/M)  
 PRODUCING HORIZON QPG CONFIDENCE HIGH SOURCE GEOL INFERENCE

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 1 WITH RESPECT TO PRESSURE TANK NONE USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON(M) 73 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH(M) 73 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

## REMARKS:

1-38 NEWFOLDEN 15 MINUTE TOPO, ANTIONETTE BENKE, NEWFOLDEN, MN., 56738, SAMPLE FROM PIPE AT WELL HEAD, WELL IS 27 M NORTH OF HOUSE;  
 1-78 ANTIONETTE BENKE & NEWFOLDEN, MN., 56738;

602742 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 17.0 WEATHER LT WIND-CLEAR

PHASE 2 MAP NM1412 SITE 0119 TIME TAKEN 10/29/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.488( 48 29'16") LONG 96.252( 96 15' 7") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ YES ,RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 1370 DISSOLVED OXYGEN(PPM) 2.1  
 WATER TEMP(C) + 13.9 VISIBILITY(M) CLEAR PH 7.0 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 360 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 350  
 APPEARANCE CLEAR DISCHARGE(L/M)  
 PRODUCING HORIZON QPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

## WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION HAND CASING OTHER PIPE COMPOSITION STEEL  
 METERS FROM HEAD 0 WITH RESPECT TO PRESSURE TANK NONE USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON(M) 4 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH(M) 4 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

## REMARKS:

1-38 NEWFOLDEN 15 MINUTE TOPO, OLIVER JEUNE, STRATHCONA, MN., 56759, SAMPLE FROM HAND PUMP ON WELL, WELL IS 4 M WEST OF HOUSE;  
 1-78 OLIVER JEUNE & STRATHCONA, MN., 56759;  
 3-20 CONCRETE CASING;

602743 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 21.0 WEATHER LT WIND-CLEAR  
 PHASE 2 MAP NM1412 SITE 0099 TIME TAKEN 15/30/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.359( 48 21'32") LONG 96.629( 96 37'44") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ YES ,RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 758 DISSOLVED OXYGEN(PPM) 3.4  
 WATER TEMP(C) + 14.3 VISIBILITY(M) CLEAR PH 8.0 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 472 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 480  
 APPEARANCE CLEAR DISCHARGE(L/M)  
 PRODUCING HORIZON QPG CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 1 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY CONSTANT  
 DEPTH TO PROD HORIZON(M) 12 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 15 CONFIDENCE OF WELL DEPTH POSSIBLE SOURCE OF DEPTH INFORMATION OWNER

## REMARKS:

1-38 FLORIAN 15 MINUTE QUAD, GLENN RIVARD, ARGYLE, MN, WELL IN PUMPHOUSE, SAMPLED HYDRANT IN PUMPHOUSE;  
 1-51 KRET IS PRESENT;  
 1-78 GLENN RIVARD & ARGYLE, MN 56713;

602744 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 20.0 WEATHER LT WIND-CLEAR  
 PHASE 2 MAP NM1412 SITE 0100 TIME TAKEN 15/30/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.310( 48 18'36") LONG 96.652( 96 39' 7") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ YES ,RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 432 DISSOLVED OXYGEN(PPM) 3.4  
 WATER TEMP(C) + 15.5 VISIBILITY(M) CLEAR PH 8.2 LO-ION PAPER

TOTAL ALKALINITY (PPM) 232 P ALKALINITY (PPM) 25 M ALKALINITY (PPM) 228  
 APPEARANCE CLEAR DISCHARGE (L/M) PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:  
 TYPE DUG POWER CLASSIFICATION ELECTRIC CASING OTHER PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 12 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY CONSTANT  
 DEPTH TO PROD HORIZON (M) 4 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH (M) 6 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION OWNER

REMARKS:  
 1-38 FLORIAN 15 MINUTE QUAD, RALPH ANDERSON, ARGYLE, MN, WELL 10 M SOUTH OF HOUSE, SAMPLED KITCHEN;  
 1-51 KRET IS PRESENT;  
 1-78 RALPH F. ANDERSON & ARGYLE, MN 56713;  
 3-20 CONCRETE CASING;

602745 TYPE WELL WATER REPLICATE SAMPLER DR5 AIR TEMP (C) + 19.0 WEATHER CALM-CLEAR  
 PHASE 2 MAP NM1412 SITE 0140 TIME TAKEN 16/30/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.317 (48 19' 1") LONG 96.687 (96 41' 13") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:  
 TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 800 DISSOLVED OXYGEN (PPM) 1.8  
 WATER TEMP (C) + 14.8 VISIBILITY (M) CLEAR PH 8.0 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 332 P ALKALINITY (PPM) 25 M ALKALINITY (PPM) 332  
 APPEARANCE CLEAR DISCHARGE (L/M) PROBABLE SOURCE GEOL. INFERENCE  
 PRODUCING HORIZON QPG CONFIDENCE HIGH

WELL INFORMATION:  
 TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 20 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY CONSTANT  
 DEPTH TO PROD HORIZON (M) 15 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH (M) 18 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION OWNER

REMARKS:  
 1-38 FLORIAN 15 MINUTE QUAD, 101691, EUGENE JORGENSEN, ARGYLE, MN, WELL 20 M WEST OF HOUSE, SAMPLED HYDRANT IN BARN;  
 1-51 KRET IS PRESENT;  
 1-78 EUGENE JORGENSEN & ARGYLE, MN 56713;

602746 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP (C) + 20.2 WEATHER LT WIND-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0131 TIME TAKEN 13/30/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.342 (48 20' 3") LONG 96.154 (96 9' 14") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:  
 TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 600 DISSOLVED OXYGEN (PPM) 0.9  
 WATER TEMP (C) + 7.8 VISIBILITY (M) CLEAR PH 7.2 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 290 P ALKALINITY (PPM) 25 M ALKALINITY (PPM) 280  
 APPEARANCE CLEAR DISCHARGE (L/M) HIGH SOURCE GEOL. INFERENCE  
 PRODUCING HORIZON QPG CONFIDENCE HIGH

WELL INFORMATION:  
 TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION GALVANIZED

METERS FROM HEAD	7	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSE/STOCK	PUMPING FREQUENCY	FREQUENT
DEPTH TO PROD HORIZON(M)	55	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	OWNER		
WELL DEPTH(M)	56	CONFIDENCE OF WELL DEPTH	PROBABLE	SOURCE OF DEPTH INFORMATION	OWNER		

REMARKS:

1-38 HOLT 7.5 MINUTE TOPO, ALF MOVICK, MIDDLE RIVER, MN., 56737, SAMPLE FROM HYDRANT ON PUMPHOUSE, WELL IS 3 M EAST OF SE CORNER OF BARN;  
1-78 ALF MOVICK & MIDDLE RIVER, MN., 56737;

602747 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 20.6 WEATHER LT WIND-PT CLDY  
PHASE 2 MAP NM1412 SITE 0132 TIME TAKEN 14/30/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
LOCATION: LAT 48.342( 48 20' 31" ) LONG 96.094( 96 5' 38" ) CONTAMINANTS NONE  
SURFACE GEOL UNIT QPG RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	640	DISSOLVED OXYGEN(PPM)	1.5
WATER TEMP(C)	+ 7.7	VISIBILITY(M)	CLEAR	PH 7.5	LO-ION PAPER
TOTAL ALKALINITY(PPM)	304	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	310
APPEARANCE	CLEAR	DISCHARGE(L/M)			
PRODUCING HORIZON	QPG	CONFIDENCE	HIGH	SOURCE	GEOL. INFERENCE

WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	STEEL	PIPE COMPOSITION	GALVANIZED
METERS FROM HEAD	2	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSE/STOCK	PUMPING FREQUENCY	FREQUENT
DEPTH TO PROD HORIZON(M)	38	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	OWNER		
WELL DEPTH(M)	38	CONFIDENCE OF WELL DEPTH	PROBABLE	SOURCE OF DEPTH INFORMATION	OWNER		

REMARKS:

1-38 MIDDLE RIVER SE 7.5 MINUTE TOPO, VIRGIL ERICKSON, MIDDLE RIVER, MN., 56737, SAMPLE FROM HYDRANT ON PUMPHOUSE, WELL IS 65 M ESE OF HOUSE;  
1-78 VIRGIL ERICKSON & MIDDLE RIVER, MN., 56737;

602748 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 20.9 WEATHER LT WIND-PT CLDY  
PHASE 2 MAP NM1412 SITE 0133 TIME TAKEN 15/30/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
LOCATION: LAT 48.385( 48 23' 6" ) LONG 96.099( 96 5' 56" ) CONTAMINANTS NONE  
SURFACE GEOL UNIT QPG RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	710	DISSOLVED OXYGEN(PPM)	6.9
WATER TEMP(C)	+ 9.3	VISIBILITY(M)	CLEAR	PH 7.6	LO-ION PAPER
TOTAL ALKALINITY(PPM)	240	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	232
APPEARANCE	CLEAR	DISCHARGE(L/M)			
PRODUCING HORIZON	QPG	CONFIDENCE	HIGH	SOURCE	GEOL. INFERENCE

WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	STEEL	PIPE COMPOSITION	GALVANIZED
METERS FROM HEAD	3	WITH RESPECT TO PRESSURE TANK	BEFORE	USE	HOUSE/STOCK	PUMPING FREQUENCY	FREQUENT
DEPTH TO PROD HORIZON(M)	24	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	OWNER		
WELL DEPTH(M)	24	CONFIDENCE OF WELL DEPTH	PROBABLE	SOURCE OF DEPTH INFORMATION	OWNER		

REMARKS:

1-38 MIDDLE RIVER NE 7.5 MINUTE TOPO, LOUVERN SORTER, MIDDLE RIVER, MN., 56737, SAMPLE FROM TAP BEFORE PRESSURE TANK, WELL IS IN MILKROOM;

1-78 LOUVERN SORTER & MIDDLE RIVER, MN., 56737

602749 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 21.5 WEATHER LT WIND-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0134 TIME TAKEN 16/30/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.368 (48 22' 4") LONG 96.145 (96 8' 42") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ NO ,RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 780 DISSOLVED OXYGEN (PPM) 1.8  
 WATER TEMP(C) + 9.3 VISIBILITY (M) CLEAR PH 7.4 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 290 P ALKALINITY (PPM) < 5 M ALKALINITY (PPM) 300  
 APPEARANCE CLEAR DISCHARGE (L/M) 284.00  
 PRODUCING HORIZON QPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 75 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON (M) 30 CONFIDENCE OF PRODUCING DEPTH HIGH SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH (M) 40 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

REMARKS:

J-38 HOLT 7.5 MINUTE TOPO, 105642, PETER HOLD, MIDDLE RIVER, MN., 56737, SAMPLE FROM HYDRANT ON SW CORNER OF BARN, WELL 15.31 M SE OF HOUSE:

602750 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 21.9 WEATHER LT WIND-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0135 TIME TAKEN 17/30/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.405 (48 24' 18") LONG 96.163 (96 9' 46") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ YES ,RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 1020 DISSOLVED OXYGEN (PPM) 1.0  
 WATER TEMP(C) + 7.8 VISIBILITY (M) CLEAR PH 7.6 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 165 P ALKALINITY (PPM) < 5 M ALKALINITY (PPM) 170  
 APPEARANCE CLEAR DISCHARGE (L/M)  
 PRODUCING HORIZON QPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 16 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON (M) 21 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH (M) 21 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

J-38 MIDDLE RIVER 7.5 MINUTE TOPO, ALLEN KUCK, RT 1, MIDDLE RIVER, MN., 56737, SAMPLE FROM HYDRANT 16 M SE OF WELL, WELL 15.45 M NORTH OF HOUSE:  
 1-78 ALLEN KUCK & RT. 1 & MIDDLE RIVER, MN., 56737:

602751 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 22.3 WEATHER LT WIND-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0136 TIME TAKEN 18/30/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.404 (48 24' 14") LONG 96.231 (96 13' 51") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ YES ,RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	760	DISSOLVED OXYGEN(PPM)	1.5
WATER TEMP(C)	+ 10.9	VISIBILITY(M)	CLEAR	PH 7.5	LO-ION PAPER
TOTAL ALKALINITY(PPM)	300	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	285
APPEARANCE	CLEAR	DISCHARGE(L/M)			
PRODUCING HORIZON	QPG	CONFIDENCE	HIGH	SOURCE GEOL. INFERENCE	

## WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	STEEL	PIPE COMPOSITION	GALVANIZED
METERS FROM HEAD	2	WITH RESPECT TO PRESSURE TANK	NONE	USE	STOCK	PUMPING FREQUENCY	FREQUENT
DEPTH TO PROD HORIZON(M)	26	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION		OWNER	
WELL DEPTH(M)	26	CONFIDENCE OF WELL DEPTH	PROBABLE	SOURCE OF DEPTH INFORMATION		OWNER	

## REMARKS:

1-38 MIDDLE RIVER 7.5 MINUTE TOPO, ART MOEN, MIDDLE RIVER, MN., 56737, SAMPLE FROM HYDRANT ON PUMPHOUSE, WELL IS 33 M NORTH OF HOUSE;  
1-78 ART MOEN & MIDDLE RIVER, MN., 56737;

602752	TYPE WELL WATER	REPLICATE	SAMPLER GJG	AIR TEMP(C)	+ 22.9	WEATHER	LT WIND-PT CLDY
	PHASE 2	MAP NM1412	SITE Q137	TIME TAKEN	18/30/08/78	RELIEF	FLAT
	LOCATION: LAT	48.397( 48 23'49")	LONG	96.297( 96 17'49")		CONTAMINANTS	NONE
	SURFACE GEOL UNIT	QTL	RESULTS REQ	YES	RELEASED	801031	
						SAMPLE: COLOR	- -CL - ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	610	DISSOLVED OXYGEN(PPM)	2.9
WATER TEMP(C)	+ 14.9	VISIBILITY(M)	CLEAR	PH 7.1	LO-ION PAPER
TOTAL ALKALINITY(PPM)	260	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	262
APPEARANCE	CLEAR	DISCHARGE(L/M)			
PRODUCING HORIZON	QTL	CONFIDENCE	HIGH	SOURCE GEOL. INFERENCE	

## WELL INFORMATION:

TYPE	DRIVE POINT	POWER CLASSIFICATION	ELECTRIC	CASING	GALVANIZED	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD	37	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSEHOLD	PUMPING FREQUENCY	FREQUENT
DEPTH TO PROD HORIZON(M)	3	CONFIDENCE OF PRODUCING DEPTH	HIGH	SOURCE OF PRODUCING INFORMATION		OWNER	
WELL DEPTH(M)	3	CONFIDENCE OF WELL DEPTH	HIGH	SOURCE OF DEPTH INFORMATION		OWNER	

## REMARKS:

1-38 NEHFOLDEN 15 MINUTE TOPO, TRQY BURCH, RT 2, NEHFOLDEN, MN., 56738, SAMPLE FROM JAP ON SW CORNER OF HOUSE, WELL IS 20 M SE OF HOUSE;  
1-78 TRQY BURCH & RT 2 & NEHFOLDEN, MN., 56738;  
3-21 17 M OF COPPER;

602753	TYPE WELL WATER	REPLICATE	SAMPLER GJG	AIR TEMP(C)	+ 23.2	WEATHER	LT WIND-PT CLDY
	PHASE 2	MAP NM1412	SITE Q138	TIME TAKEN	19/30/08/78	RELIEF	FLAT
	LOCATION: LAT	48.357( 48 21'25")	LONG	96.289( 96 17'20")		CONTAMINANTS	NONE
	SURFACE GEOL UNIT	QPG	RESULTS REQ	YES	RELEASED	801031	
						SAMPLE: COLOR	- -CL - ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	1140	DISSOLVED OXYGEN(PPM)	3.3
WATER TEMP(C)	+ 13.8	VISIBILITY(M)	CLEAR	PH 7.2	LO-ION PAPER
TOTAL ALKALINITY(PPM)	280	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	272
APPEARANCE	CLEAR	DISCHARGE(L/M)			
PRODUCING HORIZON	QPG	CONFIDENCE	HIGH	SOURCE GEOL. INFERENCE	



## WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	STEEL	PIPE COMPOSITION	STEEL
METERS FROM HEAD	0	WITH RESPECT TO PRESSURE TANK	NONE	USE	STOCK	PUMPING FREQUENCY	INFREQUENT
DEPTH TO PROD HORIZON(M)	12	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	OWNER		
WELL DEPTH(M)	12	CONFIDENCE OF WELL DEPTH	PROBABLE	SOURCE OF DEPTH INFORMATION	OWNER		

## REMARKS:

1-38 NEWFOLDEN 15 MINUTE TOPO, NORRIS SVENSEN, NEWFOLDEN, MN., 56738, SAMPLE FROM PUMP ON WELL, WELL IS 18 M ENE OF BARN;

602754	TYPE	WELL WATER	REPLICATE	SAMPLER	GJG	AIR TEMP(C)	+ 23.1	WEATHER	LT WIND-PT CLDY			
	PHASE	2	MAP	NM1412	SITE	0139	TIME TAKEN	20/30/08/78	RELIEF	FLAT	VEGETATION	GRASS-MODERATE
	LOCATION:	LAT	48.352( 48 21' 7")	LONG	96.239( 96 14' 20")	CONTAMINANTS	NONE					
	SURFACE GEOL UNIT	QPG	RESULTS REQ	YES	RELEASED	801031	SAMPLE: COLOR	- -CL	ODOR	NONE		

## GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	780	DISSOLVED OXYGEN(PPM)	2.9
WATER TEMP(C)	+ 8.7	VISIBILITY(M)	CLEAR	PH	7.7 LO-ION PAPER
TOTAL ALKALINITY(PPM)	250	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	255
APPEARANCE	CLEAR	DISCHARGE(L/M)			
PRODUCING HORIZON	QPG	CONFIDENCE	HIGH	SOURCE	GEOL. INFERENCE

## WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	STEEL	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD	18	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSE/STOCK	PUMPING FREQUENCY	FREQUENT
DEPTH TO PROD HORIZON(M)	30	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	OWNER		
WELL DEPTH(M)	30	CONFIDENCE OF WELL DEPTH	PROBABLE	SOURCE OF DEPTH INFORMATION	OWNER		

## REMARKS:

1-38 HOLT 7.5 MINUTE TOPO, LESLIE FOLDEN, NEWFOLDEN, MN., 56738, SAMPLE FROM HYDRANT 17 M NNE OF WELL, WELL IS 17 M SE OF BARN;  
1-78 LESLIE FOLDEN & NEWFOLDEN, MN., 56738;

602755	TYPE	WELL WATER	REPLICATE	SAMPLER	GJG	AIR TEMP(C)	+ 17.9	WEATHER	LT WIND-CLEAR			
	PHASE	2	MAP	NM1412	SITE	0120	TIME TAKEN	11/29/08/78	RELIEF	FLAT	VEGETATION	GRASS-MODERATE
	LOCATION:	LAT	48.500( 48 30' 0")	LONG	96.267( 96 16' 1")	CONTAMINANTS	NONE					
	SURFACE GEOL UNIT	QPG	RESULTS REQ	YES	RELEASED	801031	SAMPLE: COLOR	- -CL	ODOR	NONE		

## GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	945	DISSOLVED OXYGEN(PPM)	2.1
WATER TEMP(C)	+ 8.5	VISIBILITY(M)	CLEAR	PH	7.3 LO-ION PAPER
TOTAL ALKALINITY(PPM)	230	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	230
APPEARANCE	CLEAR	DISCHARGE(L/M)			
PRODUCING HORIZON	QPG	CONFIDENCE	HIGH	SOURCE	GEOL. INFERENCE

## WELL INFORMATION:

TYPE	DUG	POWER CLASSIFICATION	ELECTRIC	CASING	OTHER	PIPE COMPOSITION	STEEL
METERS FROM HEAD	0	WITH RESPECT TO PRESSURE TANK	NONE	USE	HOUSE/STOCK	PUMPING FREQUENCY	FREQUENT
DEPTH TO PROD HORIZON(M)	10	CONFIDENCE OF PRODUCING DEPTH	HIGH	SOURCE OF PRODUCING INFORMATION	GEOL. INFERENCE		
WELL DEPTH(M)	10	CONFIDENCE OF WELL DEPTH	HIGH	SOURCE OF DEPTH INFORMATION	GEOL. INFERENCE		

## REMARKS:

1-38 PELAN 15 MINUTE TOPO, 215373, OLE ROPPE, STRATHCONA, MN., 56759, SAMPLE FROM PUMP ON WELL, WELL IS 8 M WEST OF BARN;  
1-78 OLE ROPPE & STRATHCONA, MN., 56759;  
3-20 CONCRETE CASING;

602756 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 18.8 WEATHER LT WIND-CLEAR  
 PHASE 2 MAP NM1412 SITE 0121 TIME TAKEN 12/29/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 46.532 (48 31'55") LONG 96.227 (96 13'37") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 730 DISSOLVED OXYGEN(PPM) 2.1  
 WATER TEMP(C) + 19.3 VISIBILITY(M) CLEAR PH 7.1 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 295 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 300  
 APPEARANCE CLEAR DISCHARGE(L/M) SOURCE GEOL. INFERENCE  
 PRODUCING HORIZON QPG CONFIDENCE HIGH

## WELL INFORMATION:

TYPE DRIVE POINT POWER CLASSIFICATION ELECTRIC CASING GALVANIZED PIPE COMPOSITION COPPER  
 METERS FROM HEAD 4 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON(M) 4 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH(M) 4 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

## REMARKS:

1-38 STRATHCONA 7.5 MINUTE TOPO, KURT HANSON, STRATHCONA, MN., 56759, SAMPLE FROM KITCHEN TAP, WELL IS UNDER NW CORNER OF HOUSE;  
 J-78 KURT HANSON & STRATHCONA, MN., 56759

602758 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 19.9 WEATHER LT WIND-CLEAR  
 PHASE 2 MAP NM1412 SITE 0122 TIME TAKEN 13/29/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.541 (48 32'27") LONG 96.283 (96 16'58") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ NO, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 1270 DISSOLVED OXYGEN(PPM) 1.0  
 WATER TEMP(C) + 9.4 VISIBILITY(M) CLEAR PH 7.5 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 240 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 240  
 APPEARANCE CLEAR DISCHARGE(L/M) SOURCE GEOL. INFERENCE  
 PRODUCING HORIZON QPG CONFIDENCE HIGH

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION GALVANIZED  
 METERS FROM HEAD 2 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON(M) 33 CONFIDENCE OF PRODUCING DEPTH HIGH SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 33 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

## REMARKS:

1-38 PELAN 15 MINUTE TOPO, 215349, CHRISTIAN AND HANNAH PLADSON, KARLSTAD, MN., 56732, SAMPLE FROM HYDRANT ON WELL, WELL IS 48 M INNE OF HOUSE;

602759 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 20.4 WEATHER LT WIND-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0123 TIME TAKEN 14/29/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.526 (48 31'33") LONG 96.341 (96 20'27") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ NO, RELEASED 801031 SAMPLE: COLOR L- -BN ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 2010 DISSOLVED OXYGEN(PPM) 1.6  
 WATER TEMP(C) + 9.5 VISIBILITY(M) CLEAR PH 7.1 LO-ION PAPER

TOTAL ALKALINITY (PPM) 740 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 750  
 APPEARANCE CLEAR DISCHARGE (L/M) SOURCE GEOL. INFERENCE  
 PRODUCING HORIZON QPG CONFIDENCE HIGH

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION HAND CASING STEEL PIPE COMPOSITION STEEL  
 METERS FROM HEAD 0 WITH RESPECT TO PRESSURE TANK NONE USE NONE PUMPING FREQUENCY RARE  
 DEPTH TO PROD HORIZON (M) 26 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH (M) 26 CONFIDENCE OF WELL DEPTH POSSIBLE SOURCE OF DEPTH INFORMATION OWNER

## REMARKS:

J-38 PELAN 15 MINUTE TOPO, RAYMOND KOPASKA, KARLSTAD, MN., 56732, SAMPLE FROM PUMP ON WELL, WELL IS 2 M EAST OF NE CORNER OF BARN;

602760 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP (C) + 21.4 WEATHER LT WIND-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0124 TIME TAKEN 15/29/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.486 (48 29' 9") LONG 96.384 (96 23' 2") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 770 DISSOLVED OXYGEN (PPM) 1.3  
 WATER TEMP (C) + 14.3 VISIBILITY (M) CLEAR PH 7.2 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 325 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 310  
 APPEARANCE CLEAR DISCHARGE (L/M) SOURCE GEOL. INFERENCE  
 PRODUCING HORIZON QPG CONFIDENCE HIGH

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 36 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON (M) 63 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH (M) 63 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

## REMARKS:

J-38 NEWFOLDEN 15 MINUTE TOPO, ARNE JENSEN, STRANDQUIST, MN., 56758, SAMPLE FROM HYDRANT ON WEST SIDE OF HOUSE, WELL IS 32 M WEST OF HOUSE;  
 1-78 ARNE JENSEN & STRANDQUIST, MN., 56758;  
 2-21 4 M OF COPPER;

602761 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP (C) + 22.0 WEATHER LT WIND-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0125 TIME TAKEN 16/29/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.443 (48 26'34") LONG 96.388 (96 23'16") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 705 DISSOLVED OXYGEN (PPM) 0.7  
 WATER TEMP (C) + 9.4 VISIBILITY (M) CLEAR PH 7.7 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 340 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 342  
 APPEARANCE CLEAR DISCHARGE (L/M) SOURCE GEOL. INFERENCE  
 PRODUCING HORIZON QPG CONFIDENCE HIGH

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 13 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY FREQUENT

DEPTH TO PROD HORIZON(M)	56	CONFIDENCE OF PRODUCING DEPTH	HIGH	SOURCE OF PRODUCING INFORMATION	GEOL. INFERENCE
WELL DEPTH(M)	59	CONFIDENCE OF WELL DEPTH	HIGH	SOURCE OF DEPTH INFORMATION	GEOL. INFERENCE

## REMARKS:

1-38 NEWFOLDEN 15 MINUTE TOPO, T01680, WESLIE RUD, STRANDQUIST, MN., 56758, SAMPLE FROM HYDRANT ON SE CORNER OF HOUSE, WELL IS 8 M EAST OF HOUSE;  
 1-78 WESLIE RUD & STRANDQUIST, MN., 56758;  
 3-21 5 M OF COPPER;

602762	TYPE WELL WATER	REPLICATE	SAMPLER GJG	AIR TEMP(C)	+ 22.5	WEATHER	LT WIND-PT CLDY
	PHASE 2	MAP NM1412	SITE 0126	RELIEF	FLAT	VEGETATION	GRASS-MODERATE
	LOCATION: LAT 48.400 (48 24' 0") LONG 96.361 (96 21' 39")			CONTAMINANTS	NONE		
	SURFACE GEOL UNIT QTL			RESULTS REQ	YES	RELEASED	801031
				SAMPLE: COLOR	-	-CL	ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	940	DISSOLVED OXYGEN(PPM)	1.2
WATER TEMP(C)	+ 15.5	VISIBILITY(M)	CLEAR	PH	7.2 LO-ION PAPER
TOTAL ALKALINITY(PPM)	300	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	310
APPEARANCE	CLEAR	DISCHARGE(L/M)			
PRODUCING HORIZON	QTL	CONFIDENCE	HIGH	SOURCE	GEOL. INFERENCE

## WELL INFORMATION:

TYPE	DRIVE POINT	POWER CLASSIFICATION	ELECTRIC	CASING	GALVANIZED	PIPE COMPOSITION	COPPER
METERS FROM HEAD	9	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSEHOLD	PUMPING FREQUENCY	FREQUENT
DEPTH TO PROD HORIZON(M)	4	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	OWNER		
WELL DEPTH(M)	4	CONFIDENCE OF WELL DEPTH	PROBABLE	SOURCE OF DEPTH INFORMATION	OWNER		

## REMARKS:

1-38 NEWFOLDEN 15 MINUTE TOPO, RON ANDERSON, NEWFOLDEN, MN., 56738, SAMPLE FROM HYDRANT ON SW SIDE OF HOUSE, WELL IS UNDER SE CORNER OF HOUSE;  
 1-78 RON ANDERSON & NEWFOLDEN, MN., 56738;

602763	TYPE WELL WATER	REPLICATE	SAMPLER GJG	AIR TEMP(C)	+ 18.0	WEATHER	LT WIND-PT CLDY
	PHASE 2	MAP NM1412	SITE 0127	RELIEF	FLAT	VEGETATION	GRASS-MODERATE
	LOCATION: LAT 48.330 (48 19' 48") LONG 96.256 (96 15' 21")			CONTAMINANTS	NONE		
	SURFACE GEOL UNIT OPG			RESULTS REQ	YES	RELEASED	801031
				SAMPLE: COLOR	-	-CL	ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	960	DISSOLVED OXYGEN(PPM)	0.9
WATER TEMP(C)	+ 8.1	VISIBILITY(M)	CLEAR	PH	7.6 LO-ION PAPER
TOTAL ALKALINITY(PPM)	250	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	258
APPEARANCE	CLEAR	DISCHARGE(L/M)	64.00		
PRODUCING HORIZON	OPG	CONFIDENCE	HIGH	SOURCE	GEOL. INFERENCE

## WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	STEEL	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD	1	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSE/STOCK	PUMPING FREQUENCY	FREQUENT
DEPTH TO PROD HORIZON(M)	24	CONFIDENCE OF PRODUCING DEPTH	HIGH	SOURCE OF PRODUCING INFORMATION	GEOL. INFERENCE		
WELL DEPTH(M)	49	CONFIDENCE OF WELL DEPTH	HIGH	SOURCE OF DEPTH INFORMATION	GEOL. INFERENCE		

## REMARKS:

1-38 NEWFOLDEN 15 MINUTE TOPO, 108004, HARVEY DYRUD, NEWFOLDEN, MN., 56738, SAMPLE FROM HYDRANT ON PUMPHOUSE, WELL IS 18 M NE OF HOUSE;

1-78 HARVEY DYRUD &amp; NEWFOLDEN, MN., 56738;

602764 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 18.6 WEATHER LT WIND-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0128 TIME TAKEN 10/30/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.311 (48 18'39") LONG 96.205 (96 12'18") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 1090 DISSOLVED OXYGEN (PPM) 1.6  
 WATER TEMP (C) + 8.9 VISIBILITY (M) CLEAR PH 7.3 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 280 P ALKALINITY (PPM) 5 M ALKALINITY (PPM) 270  
 APPEARANCE CLEAR DISCHARGE (L/M) 23.00  
 PRODUCING HORIZON QPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION COPPER  
 METERS FROM HEAD 8 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON (M) 22 CONFIDENCE OF PRODUCING DEPTH HIGH SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH (M) 24 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

## REMARKS:

1-38 HOLT 7.5 MINUTE TOPO, 108005, HILMA JOHNSON, NEWFOLDEN, MN., 56738, SAMPLE FROM KITCHEN TAP, WELL IS ONE METER NORTH OF HOUSE;  
 1-78 HILMA JOHNSON & NEWFOLDEN, MN., 56738;

602765 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP (C) + 19.1 WEATHER LT WIND-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0129 TIME TAKEN 11/30/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.298 (48 17'52") LONG 96.147 (96 8'49") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 670 DISSOLVED OXYGEN (PPM) 3.3  
 WATER TEMP (C) + 12.3 VISIBILITY (M) CLEAR PH 7.7 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 290 P ALKALINITY (PPM) 5 M ALKALINITY (PPM) 295  
 APPEARANCE CLEAR DISCHARGE (L/M)  
 PRODUCING HORIZON QPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION GALVANIZED  
 METERS FROM HEAD 66 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON (M) 36 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH (M) 42 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

## REMARKS:

1-38 HOLT 7.5 MINUTE TOPO, ROGER BENITT, RT. 1, MIDDLE RIVER, MN., 56737, SAMPLE FROM HYDRANT 8 M SOUTH OF HOUSE, WELL IS UNDER SOUTH PART OF BARN;  
 1-78 ROGER BENITT & RT. 1 & MIDDLE RIVER, MN., 56737;

602766 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP (C) + 19.9 WEATHER LT WIND-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0130 TIME TAKEN 12/30/08/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.304 (48 18'14") LONG 96.101 (96 6'3") CONTAMINANTS NONE

SURFACE GEOL UNIT OPG RESULTS REQ NO ,RELEASED 801031

SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE	CONDUCTIVITY (MICROMHOS/CM)	650	DISSOLVED OXYGEN (PPM)	3.1
WATER TEMP (C) + 8.4	VISIBILITY (M)	CLEAR	PH 7.6 LO-ION PAPER	
TOTAL ALKALINITY (PPM) 280	P ALKALINITY (PPM)	<5	M ALKALINITY (PPM)	268
APPEARANCE CLEAR	DISCHARGE (L/M)			
PRODUCING HORIZON OPG	CONFIDENCE HIGH		SOURCE GEOL. INFERENCE	

## WELL INFORMATION:

TYPE DRILLED	POWER CLASSIFICATION ELECTRIC	CASING STEEL	PIPE COMPOSITION STEEL
METERS FROM HEAD 0	WITH RESPECT TO PRESSURE TANK NONE	USE HOUSE/STOCK	PUMPING FREQUENCY FREQUENT
DEPTH TO PROD HORIZON (M) 36	CONFIDENCE OF PRODUCING DEPTH PROBABLE	SOURCE OF PRODUCING INFORMATION	OWNER
WELL DEPTH (M) 36	CONFIDENCE OF WELL DEPTH PROBABLE	SOURCE OF DEPTH INFORMATION	OWNER

## REMARKS:

1-38 MIDDLE RIVER SE 7.5 MINUTE TOPO, ART LUNKE, MIDDLE RIVER, MN., 56737, SAMPLE FROM PUMP ON WELL, WELL IS 27M NORTH OF HOUSE;

602767 TYPE WELL WATER	REPLICATE	SAMPLER DRS	AIR TEMP (C) + 20.0	WEATHER CALM-OVERCAST
PHASE 2 MAP NM1412	SITE 0176	TIME TAKEN 09/06/09/78	RELIEF FLAT	VEGETATION GRASS-MODERATE
LOCATION: LAT 48.736 (48 44' 9")	LONG 96.031 (96 1' 51")		CONTAMINANTS NONE	
SURFACE GEOL UNIT OPG	RESULTS REQ YES ,RELEASED 801031			SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE	CONDUCTIVITY (MICROMHOS/CM)	126	DISSOLVED OXYGEN (PPM)	1.5
WATER TEMP (C) + 13.0	VISIBILITY (M)	CLEAR	PH 7.2 LO-ION PAPER	
TOTAL ALKALINITY (PPM) 276	P ALKALINITY (PPM)	<5	M ALKALINITY (PPM)	260
APPEARANCE CLEAR	DISCHARGE (L/M)			
PRODUCING HORIZON OPG	CONFIDENCE PROBABLE		SOURCE GEOL. INFERENCE	

## WELL INFORMATION:

TYPE DUG	POWER CLASSIFICATION ELECTRIC	CASING GALVANIZED	PIPE COMPOSITION GALVANIZED
METERS FROM HEAD 0	WITH RESPECT TO PRESSURE TANK AFTER	USE HOUSE/STOCK	PUMPING FREQUENCY CONSTANT
DEPTH TO PROD HORIZON (M) 11	CONFIDENCE OF PRODUCING DEPTH PROBABLE	SOURCE OF PRODUCING INFORMATION	GEOL. INFERENCE
WELL DEPTH (M) 12	CONFIDENCE OF WELL DEPTH HIGH	SOURCE OF DEPTH INFORMATION	OWNER

## REMARKS:

1-38 GREENBUSH NE 7.5 MINUTE QUAD, BERNARD DOSTAL, BADGER, MN, WELL NEXT TO TOOL SHED NW OF HOUSE, SAMPLED HYDRANT AT HEAD;  
 1-51 KREJ IS PRESENT;  
 1-78 BERNARD DOSTAL & RT 1 & BADGER, MN 56714;

602768 TYPE WELL WATER	REPLICATE	SAMPLER DRS	AIR TEMP (C) + 19.0	WEATHER CALM-OVERCAST
PHASE 2 MAP NM1412	SITE 0177	TIME TAKEN 10/06/09/78	RELIEF FLAT	VEGETATION GRASS-MODERATE
LOCATION: LAT 48.718 (48 43' 4")	LONG 96.087 (96 5' 13")		CONTAMINANTS NONE	
SURFACE GEOL UNIT OPG	RESULTS REQ YES ,RELEASED 801031			SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE	CONDUCTIVITY (MICROMHOS/CM)	970	DISSOLVED OXYGEN (PPM)	7.0
WATER TEMP (C) + 12.5	VISIBILITY (M)	CLEAR	PH 7.8 LO-ION PAPER	
TOTAL ALKALINITY (PPM) 462	P ALKALINITY (PPM)	<5	M ALKALINITY (PPM)	456
APPEARANCE CLEAR	DISCHARGE (L/M)			
PRODUCING HORIZON OPG	CONFIDENCE PROBABLE		SOURCE GEOL. INFERENCE	

WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	STEEL	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD	1	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSE/STOCK	PUMPING FREQUENCY	CONSTANT
DEPTH TO PROD HORIZON(M)	18	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	GEOLOGICAL INFERENCE		
WELL DEPTH(M)	21	CONFIDENCE OF WELL DEPTH	HIGH	SOURCE OF DEPTH INFORMATION	OWNER		

REMARKS:

1-38 GREENBUSH NE 7.5 MINUTE QUAD, TOM WALLACE, GREENBUSH, MN, WELL IN PUMPHOUSE, SAMPLED PUMPHOUSE;  
 1-51 KRET IS PRESENT;  
 1-78 TOM WALLACE & RT 1 & GREENBUSH, MN 56726;

602769	TYPE WELL WATER	REPLICATE	SAMPLER DRS	AIR TEMP(C)	+ 20.0	WEATHER	CALM-OVERCAST
	PHASE 2	MAP NM1412	SITE 0178	TIME TAKEN	10/06/09/78	RELIEF	FLAT
	LOCATION: LAT	48.663 (48 39'46")	LONG	96.065 (96 3'54")		VEGETATION	GRASS-MODERATE
	SURFACE GEOL UNIT	QTL	RESULTS REQ	YES	RELEASED	801031	
				CONTAMINANTS	NONE	SAMPLE: COLOR	-CL -ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	635	DISSOLVED OXYGEN(PPM)	1.6
WATER TEMP(C)	+ 18.1	VISIBILITY(M)	CLEAR	PH	8.3
TOTAL ALKALINITY(PPM)	206	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	200
APPEARANCE	CLEAR	DISCHARGE(L/M)			
PRODUCING HORIZON	OPG	CONFIDENCE	PROBABLE	SOURCE	GEOLOGICAL INFERENCE

WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	STEEL	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD	1	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSE/STOCK	PUMPING FREQUENCY	CONSTANT
DEPTH TO PROD HORIZON(M)	3	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	GEOLOGICAL INFERENCE		
WELL DEPTH(M)	15	CONFIDENCE OF WELL DEPTH	PROBABLE	SOURCE OF DEPTH INFORMATION	OWNER		

REMARKS:

1-38 GREENBUSH NE 7.5 MINUTE QUAD, 215190, ART THOMPSON, GREENBUSH, MN, WELL IN BARN, SAMPLED BARN HYDRANT;  
 1-51 KRET IS PRESENT;  
 1-78 ART THOMPSON & RT 1 BOX 133 & GREENBUSH, MN 56726;

602770	TYPE WELL WATER	REPLICATE	SAMPLER DRS	AIR TEMP(C)	+ 20.0	WEATHER	CALM-OVERCAST
	PHASE 2	MAP NM1412	SITE 0179	TIME TAKEN	11/06/09/78	RELIEF	FLAT
	LOCATION: LAT	48.687 (48 41'13")	LONG	96.018 (96 1'4")		VEGETATION	GRASS-MODERATE
	SURFACE GEOL UNIT	OPG	RESULTS REQ	YES	RELEASED	801031	
				CONTAMINANTS	NONE	SAMPLE: COLOR	-CL -ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	450	DISSOLVED OXYGEN(PPM)	3.4
WATER TEMP(C)	+ 13.7	VISIBILITY(M)	CLEAR	PH	8.1
TOTAL ALKALINITY(PPM)	276	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	284
APPEARANCE	CLEAR	DISCHARGE(L/M)			
PRODUCING HORIZON	OPG	CONFIDENCE	PROBABLE	SOURCE	GEOLOGICAL INFERENCE

WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	STEEL	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD	20	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSE/STOCK	PUMPING FREQUENCY	CONSTANT
DEPTH TO PROD HORIZON(M)	27	CONFIDENCE OF PRODUCING DEPTH	POSSIBLE	SOURCE OF PRODUCING INFORMATION	GEOLOGICAL INFERENCE		
WELL DEPTH(M)	30	CONFIDENCE OF WELL DEPTH	HIGH	SOURCE OF DEPTH INFORMATION	OWNER		

REMARKS:

1-38 GREENBUSH NE 7.5 MINUTE QUAD., OTTO KAML, BADGER, MN, WELL 2M NORTH OF HOUSE, SAMPLED SOUTH END OF HOUSE;  
1-51 KRET IS PRESENT;  
1-78 OTTO KAML & RT 1 & BADGER, MN 56714;

602771 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 20.0 WEATHER LT WIND-OVERCST  
PHASE 2 MAP NM1412 SITE 0180 TIME TAKEN 12/06/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
LOCATION: LAT 48.652( 48 39' 7") LONG 96.008( 96 0'28") CONTAMINANTS NONE  
SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 550 DISSOLVED OXYGEN(PPM) 1.5  
WATER TEMP(C) + 11.4 VISIBILITY(M) CLEAR PH 8.2 LO-ION PAPER  
TOTAL ALKALINITY(PPM) 272 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 276  
APPEARANCE CLEAR DISCHARGE(L/M) CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE  
PRODUCING HORIZON QPG

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
METERS FROM HEAD 1 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY CONSTANT  
DEPTH TO PROD HORIZON(M) 18 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
WELL DEPTH(M) 20 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 GREENBUSH NE 7.5 MINUTE QUAD, LAWRENCE GUST, BADGER, MN, WELL IN PUMPHOUSE, SAMPLE FAUCET AFTER PRESSURE TANK;  
1-51 KRET IS PRESENT;  
1-78 LAWRENCE GUST & BADGER, MN, 56714;

602772 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 20.0 WEATHER LT WIND-OVERCST  
PHASE 2 MAP NM1412 SITE 0181 TIME TAKEN 13/06/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
LOCATION: LAT 48.628( 48 37'40") LONG 96.058( 96 3'28") CONTAMINANTS NONE  
SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 392 DISSOLVED OXYGEN(PPM) 0.7  
WATER TEMP(C) + 10.5 VISIBILITY(M) CLEAR PH 7.8 LO-ION PAPER  
TOTAL ALKALINITY(PPM) 294 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 302  
APPEARANCE CLEAR DISCHARGE(L/M) CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE  
PRODUCING HORIZON QPG

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
METERS FROM HEAD 10 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY FREQUENT  
DEPTH TO PROD HORIZON(M) 8 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
WELL DEPTH(M) 11 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 GREENBUSH NE 7.5 MINUTE QUAD, DUANE LORENSON, GREENBUSH, MN, WELL 2M EAST OF HOUSE, SAMPLED KITCHEN TAP;  
1-51 KRET IS PRESENT;  
1-78 DUANE LORENSON & GREENBUSH, MN 56726;

602773 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 20.0 WEATHER LT WIND-OVERCST



PHASE 2 MAP NM1412 SITE 0182 TIME TAKEN 14/06/09/78  
 LOCATION: LAT 48.572 (48 34'19") LONG 96.074 (96 4'26")  
 SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031

RELIEF FLAT VEGETATION GRASS-MODERATE  
 CONTAMINANTS NONE

SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 459 DISSOLVED OXYGEN (PPM) 4.4  
 WATER TEMP (C) + 13.3 VISIBILITY (M) CLEAR PH 7.9 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 292 P ALKALINITY (PPM) 45 M ALKALINITY (PPM) 296  
 APPEARANCE CLEAR DISCHARGE (L/M)  
 PRODUCING HORIZON QPG CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 1 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY CONSTANT  
 DEPTH TO PROD HORIZON (M) 21 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH (M) 24 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION OWNER

## REMARKS:

1-38 GREENBUSH SE 7.5 MINUTE QUAD, HARRY NELSON, STRATHCONA, MN. WELL IN PUMPHOUSE, SAMPLED PUMPHOUSE;  
 1-51 KRET IS PRESENT;  
 1-78 HARRY NELSON & STRATHCONA, MN 56759;

602774 TYPE WELL WATER REPLICATE SAMPLER DRS  
 PHASE 2 MAP NM1412 SITE 0183 TIME TAKEN 14/06/09/78  
 LOCATION: LAT 48.574 (48 34'26") LONG 96.013 (96 0'46")  
 SURFACE GEOL UNIT QPG RESULTS REQ YES, RELEASED 801031

AIR TEMP (C) + 20.0 WEATHER LT WIND-OVERCAST  
 RELIEF FLAT VEGETATION GRASS-MODERATE  
 CONTAMINANTS NONE

SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 468 DISSOLVED OXYGEN (PPM) 6.3  
 WATER TEMP (C) + 13.5 VISIBILITY (M) CLEAR PH 7.9 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 292 P ALKALINITY (PPM) 45 M ALKALINITY (PPM) 300  
 APPEARANCE CLEAR DISCHARGE (L/M)  
 PRODUCING HORIZON QPG CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 5 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY CONSTANT  
 DEPTH TO PROD HORIZON (M) 15 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH (M) 30 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION OWNER

## REMARKS:

1-38 GREENBUSH SE 7.5 MINUTE QUAD, 215170, LEROY TAUS, STRATHCONA, MN. WELL IN BARN, SAMPLED BARN HYDRANT;  
 1-51 KRET IS PRESENT;  
 1-78 LEROY TAUS & STRATHCONA, MN 56759;

602775 TYPE WELL WATER REPLICATE SAMPLER DRS  
 PHASE 2 MAP NM1412 SITE 0184 TIME TAKEN 15/06/09/78  
 LOCATION: LAT 48.592 (48 35'31") LONG 96.165 (96 9'54")  
 SURFACE GEOL UNIT QPG RESULTS REQ YES, RELEASED 801031

AIR TEMP (C) + 20.0 WEATHER -OVERCAST  
 RELIEF FLAT VEGETATION GRASS-MODERATE  
 CONTAMINANTS NONE

SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 548 DISSOLVED OXYGEN (PPM) 0.7  
 WATER TEMP (C) + 14.7 VISIBILITY (M) CLEAR PH 8.1 LO-ION PAPER

TOTAL ALKALINITY (PPM) 236 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 234  
 APPEARANCE CLEAR DISCHARGE (L/M) PROBABLE SOURCE GEOL. INFERENCE  
 PRODUCING HORIZON QPG CONFIDENCE

WELL INFORMATION:  
 TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 5 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON (M) 24 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH (M) 25 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION OWNER

REMARKS:  
 1-38 STRATHCONA 7.5 MINUTE QUAD, 215177, MARVIN NELSON, STRATHCONA, MN, WELL 5M SE OF HOUSE, SAMPLED SOUTH SIDE OF HOUSE;  
 1-51 KRET IS PRESENT;  
 1-78 MARVIN NELSON & STRATHCONA, MN, 56759;

602776 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP (C) + 20.0 WEATHER -PT CLDY  
 PHASE 2 MAP NM1412 SITE 0185 TIME TAKEN 15/06/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.572 (48 34' 19") LONG 96.230 (96 13' 48") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ NO, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:  
 TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 1068 DISSOLVED OXYGEN (PPM) 0.5  
 WATER TEMP (C) + 13.4 VISIBILITY (M) CLEAR PH 7.6 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 376 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 376  
 APPEARANCE CLEAR DISCHARGE (L/M) PROBABLE SOURCE GEOL. INFERENCE  
 PRODUCING HORIZON QPG CONFIDENCE

WELL INFORMATION:  
 TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 55 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY CONSTANT  
 DEPTH TO PROD HORIZON (M) 12 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH (M) 14 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION OWNER

REMARKS:  
 1-38 STRATHCONA 7.5 MINUTE QUAD, FRANK PARR, STRATHCONA, MN, WELL IN PUMPHOUSE, SAMPLED NORTH SIDE OF HOUSE;  
 1-51 KRET IS PRESENT;

602777 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP (C) + 20.0 WEATHER -PT CLDY  
 PHASE 2 MAP NM1412 SITE 0186 TIME TAKEN 16/06/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.634 (48 38' 2") LONG 96.228 (96 13' 40") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:  
 TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 1072 DISSOLVED OXYGEN (PPM) 1.5  
 WATER TEMP (C) + 15.1 VISIBILITY (M) CLEAR PH 7.2 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 521 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 510  
 APPEARANCE CLEAR DISCHARGE (L/M) PROBABLE SOURCE GEOL. INFERENCE  
 PRODUCING HORIZON QPG CONFIDENCE

WELL INFORMATION:  
 TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 30 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY CONSTANT  
 DEPTH TO PROD HORIZON (M) 17 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE

WELL DEPTH(M) 20 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 GREENBUSH 7.5 MINUTE QUAD, MAYUIS LERUM, GREENBUSH, MN, WELL 30M EAST OF HOUSE, SAMPLED EAST SIDE OF HOUSE;  
 1-51 KRET IS PRESENT;  
 1-78 MAYUIS LERUM & GREENBUSH, MN 56726;

602778 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 20.0 WEATHER -PT CLDY  
 PHASE 2 MAP NM1412 SITE 0187 TIME TAKEN 17/06/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.632( 48 37'55") LONG 96.158( 96 9'28") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 491 DISSOLVED OXYGEN(PPM) 1.3  
 WATER TEMP(C) + 13.1 VISIBILITY(M) CLEAR PH 8.3 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 316 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 320  
 APPEARANCE CLEAR DISCHARGE(L/M) SOURCE GEOL. INFERENCE  
 PRODUCING HORIZON QPG CONFIDENCE PROBABLE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY CONSTANT  
 DEPTH TO PROD HORIZON(M) 54 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 57 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 GREENBUSH 7.5 MINUTE QUAD, 215186, WALTER BRAZIER, GREENBUSH, MN, WELL 5M E OF HOUSE, SAMPLED KITCHEN;  
 1-51 KRET IS PRESENT;  
 1-78 WALTER BRAZIER & GREENBUSH, MN. 56726;

602779 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 19.6 WEATHER LT WIND-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0141 TIME TAKEN 09/06/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.760( 48 45'36") LONG 96.029( 96 1'44") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 950 DISSOLVED OXYGEN(PPM) 1.5  
 WATER TEMP(C) + 9.2 VISIBILITY(M) CLEAR PH 7.3 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 395 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 400  
 APPEARANCE CLEAR DISCHARGE(L/M) SOURCE GEOL. INFERENCE  
 PRODUCING HORIZON QPG CONFIDENCE HIGH

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 26 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON(M) 43 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH(M) 43 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 BADGER 7.5 MINUTE TOPD, TONY BURKEL, GREENBUSH, MN, 56726, SAMPLE FROM TAP ON SE CORNER OF HOUSE, WELL IS 22M SE OF  
 HOUSE;  
 1-78 TONY BURKEL & GREENBUSH, MN., 56726;  
 3-21 4M OF COPPER;

602780 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 20.7 WEATHER LT WIND-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0142 TIME TAKEN 10/06/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.812 (48 48'43") LONG 96.004 (96 0'14") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ NO , RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 1170 DISSOLVED OXYGEN (PPM) 2.3  
 WATER TEMP (C) + 9.0 VISIBILITY (M) CLEAR PH 7.5 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 255 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 260  
 APPEARANCE CLEAR DISCHARGE (L/M)  
 PRODUCING HORIZON QPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION STEEL  
 METERS FROM HEAD 0 WITH RESPECT TO PRESSURE TANK NONE USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON (M) 15 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH (M) 15 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

## REMARKS:

1-38 BADGER 7.5 MINUTE TOPO, CLIFFORD MARTINSON, BADGER, MN., 56714, SAMPLE FROM PUMP ON WELL, WELL IS ONE METER SOUTH OF SW CORNER OF BARN;

602781 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP (C) + 21.5 WEATHER LT WIND-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0143 TIME TAKEN 11/06/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.857 (48 51'25") LONG 96.005 (96 0'18") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ YES , RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 900 DISSOLVED OXYGEN (PPM) 0.7  
 WATER TEMP (C) + 9.0 VISIBILITY (M) CLEAR PH 7.6 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 230 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 238  
 APPEARANCE CLEAR DISCHARGE (L/M)  
 PRODUCING HORIZON QPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 57 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON (M) 20 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH (M) 20 CONFIDENCE OF WELL DEPTH POSSIBLE SOURCE OF DEPTH INFORMATION OWNER

## REMARKS:

1-38 BADGER 7.5 MINUTE TOPO, DELBERT LEE, BADGER, MN., 56714, SAMPLE FROM KITCHEN TAP, WELL IS 52M EAST OF HOUSE;  
 1-78 DELBERT LEE & BADGER, MN., 56714;  
 3-21 5 M OF COPPER;

602782 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP (C) + 22.7 WEATHER LT WIND-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0144 TIME TAKEN 12/06/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.909 (48 54'32") LONG 96.005 (96 0'18") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ YES , RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 550 DISSOLVED OXYGEN (PPM) 1.2  
 WATER TEMP (C) + 8.7 VISIBILITY (M) CLEAR PH 7.8 LO-ION PAPER

TOTAL ALKALINITY (PPM) 220 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 225  
 APPEARANCE CLEAR DISCHARGE (L/M)  
 PRODUCING HORIZON QPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION GALVANIZED  
 METERS FROM HEAD WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON (M) 14 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH (M) 14 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

## REMARKS:

J-38 BADGER NE 7.5 MINUTE TOPO, LOUISE LINS, BADGER, MN, 56714, SAMPLE FROM HYDRANT ON PUMPHOUSE, WELL IS 16M NORTH OF HOUSE.  
 I-78 LOUISE LINS & BADGER, MN., 56714;

602783 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP (C) + 23.4 WEATHER -OVERCAST  
 PHASE 2 MAP NM1412 SITE 0145 TIME TAKEN 13/06/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.978 (48 58' 40") LONG 96.008 (96 0' 28") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 650 DISSOLVED OXYGEN (PPM) 2.0  
 WATER TEMP (C) + 18.9 VISIBILITY (M) CLEAR PH 7.5 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 255 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 260  
 APPEARANCE CLEAR DISCHARGE (L/M) 114.00  
 PRODUCING HORIZON QPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION GALVANIZED  
 METERS FROM HEAD WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON (M) 29 CONFIDENCE OF PRODUCING DEPTH HIGH SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH (M) 41 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

## REMARKS:

J-38 BADGER NE 7.5 MINUTE TOPO, 215198, JACK JENSEN, ROSEAU RIVER HMA, ROSEAU, MN, 56751, SAMPLE FROM TAP IN GARAGE WEST OF  
 HOUSE, WELL IS 6M NORTH OF HOUSE;  
 I-78 JACK JENSEN & UNIT MANAGER & ROSEAU RIVER HMA & BOX 103 & ROSEAU, MN., 56751;

602784 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP (C) + 24.2 WEATHER -OVERCAST  
 PHASE 2 MAP NM1412 SITE 0146 TIME TAKEN 14/06/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.951 (48 57' 3") LONG 96.079 (96 4' 44") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ NO, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 610 DISSOLVED OXYGEN (PPM) L L  
 WATER TEMP (C) + 12.9 VISIBILITY (M) CLEAR PH 7.6 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 238 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 230  
 APPEARANCE CLEAR DISCHARGE (L/M)  
 PRODUCING HORIZON QPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON (M) 30 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER

WELL DEPTH(M) 30 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

J-38 BADGER NE 7.5 MINUTE TOPO, ALBIN OLSON, BADGER, MN, 56714, SAMPLE FROM HYDRANT IN KITCHEN, WELL IS 41M EAST OF HOUSE;  
3-21 7M OF COPPER;

602785 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 25.1 WEATHER LT WIND-PT CLDY  
PHASE 2 MAP NM1412 SITE 0147 TIME TAKEN 15/06/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
LOCATION: LAT 48.905 (48 54' 18") LONG 96.112 (96 6' 43") CONTAMINANTS NONE  
SURFACE GEOL UNIT QTL RESULTS REQ NO RELEASED 801031 SAMPLE COLOR -CL QDOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 610 DISSOLVED OXYGEN(PPM) 1.1  
WATER TEMP(C) + 9.4 VISIBILITY(M) CLEAR PH 8.0 LO-ION PAPER  
TOTAL ALKALINITY(PPM) 260 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 250  
APPEARANCE CLEAR DISCHARGE(L/M)  
PRODUCING HORIZON QPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
METERS FROM HEAD 4 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT  
DEPTH TO PROD HORIZON(M) 30 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER  
WELL DEPTH(M) 30 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

J-38 BADGER NE 7.5 MINUTE TOPO, DOYLE VATNSDAL, BADGER, MN, 56714, SAMPLE FROM HYDRANT 3M SE OF WELL, WELL IS 32M SW OF HOUSE;  
1-78 DOYLE VATNSDAL & BADGER, MN., 56714;

602786 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 25.5 WEATHER -OVERCAST  
PHASE 2 MAP NM1412 SITE 0148 TIME TAKEN 16/06/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
LOCATION: LAT 48.915 (48 54' 54") LONG 96.064 (96 3' 50") CONTAMINANTS NONE  
SURFACE GEOL UNIT QTL RESULTS REQ NO RELEASED 801031 SAMPLE COLOR -CL QDOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 585 DISSOLVED OXYGEN(PPM) 2.5  
WATER TEMP(C) + 14.5 VISIBILITY(M) CLEAR PH 7.9 LO-ION PAPER  
TOTAL ALKALINITY(PPM) 210 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 215  
APPEARANCE CLEAR DISCHARGE(L/M)  
PRODUCING HORIZON QPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
METERS FROM HEAD 23 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT  
DEPTH TO PROD HORIZON(M) 23 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION OWNER  
WELL DEPTH(M) 23 CONFIDENCE OF WELL DEPTH POSSIBLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

J-38 BADGER NE 7.5 MINUTE TOPO, ROSEANN HARLAND, BADGER, MN, 56714, SAMPLE FROM KITCHEN TAP, WELL IS 16M NORTH OF HOUSE;  
3-21 7M OF COPPER;

602787 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 25.8 WEATHER -OVERCAST

PHASE 2 MAP NM1412 SITE 0149 TIME TAKEN 17/06/09/78  
 LOCATION: LAT 48.864 (48 51'50") LONG 96.068 (96 4' 4")  
 SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031

RELIEF FLAT VEGETATION GRASS-MODERATE  
 CONTAMINANTS NONE

SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 980 DISSOLVED OXYGEN (PPM) 1.4  
 WATER TEMP (C) + 11.5 VISIBILITY (M) CLEAR PH 7.6 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 295 P ALKALINITY (PPM) 45 M ALKALINITY (PPM) 300  
 APPEARANCE CLEAR DISCHARGE (L/M) 379.00  
 PRODUCING HORIZON QPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 3 WITH RESPECT TO PRESSURE TANK AFTER USE STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON (M) 45 CONFIDENCE OF PRODUCING DEPTH HIGH SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH (M) 55 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

## REMARKS:

1-38 BADGER 7.5 MINUTE TOPO, T32193, FLOYD HAUGEN, BADGER, MN., 56714, SAMPLE FROM HYDRANT ON PUMPHOUSE, WELL IS 4M NORTH OF BARN;  
 1-78 FLOYD HAUGEN & RT. 1 & BADGER, MN., 56714;

602789 TYPE WELL WATER REPLICATE SAMPLER GJG  
 PHASE 2 MAP NM1412 SITE 0150 TIME TAKEN 18/06/09/78  
 LOCATION: LAT 48.803 (48 48'10") LONG 96.052 (96 3' 7")  
 SURFACE GEOL UNIT QPG RESULTS REQ YES, RELEASED 801031

AIR TEMP (C) + 26.0 WEATHER -OVERCAST  
 RELIEF FLAT VEGETATION GRASS-MODERATE  
 CONTAMINANTS NONE

SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 845 DISSOLVED OXYGEN (PPM) 1.6  
 WATER TEMP (C) + 11.4 VISIBILITY (M) CLEAR PH 7.7 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 350 P ALKALINITY (PPM) 45 M ALKALINITY (PPM) 358  
 APPEARANCE CLEAR DISCHARGE (L/M) 170.00  
 PRODUCING HORIZON QPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 1 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON (M) 22 CONFIDENCE OF PRODUCING DEPTH HIGH SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH (M) 22 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

## REMARKS:

1-38 BADGER 7.5 MINUTE TOPO, 215193, OSCAR LUNDE, RT. 1, BADGER, MN., 56714, SAMPLE FROM HYDRANT ON PUMPHOUSE, WELL IS 29M SW OF HOUSE;  
 1-78 OSCAR LUNDE & RT. 1 & BADGER, MN., 56714;

602790 TYPE WELL WATER REPLICATE SAMPLER GJG  
 PHASE 2 MAP NM1412 SITE 0151 TIME TAKEN 18/06/09/78  
 LOCATION: LAT 48.773 (48 46'22") LONG 96.060 (96 3'36")  
 SURFACE GEOL UNIT QPG RESULTS REQ YES, RELEASED 801031

AIR TEMP (C) + 26.1 WEATHER -OVERCAST  
 RELIEF FLAT VEGETATION GRASS-MODERATE  
 CONTAMINANTS NONE

SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 1035 DISSOLVED OXYGEN (PPM) 1.2  
 WATER TEMP (C) + 9.2 VISIBILITY (M) CLEAR PH 7.3 LO-ION PAPER

TOTAL ALKALINITY (PPM) 470 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 455  
 APPEARANCE CLEAR DISCHARGE (L/M) 379.00  
 PRODUCING HORIZON OPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 1 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON (M) 46 CONFIDENCE OF PRODUCING DEPTH HIGH SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH (M) 54 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

REMARKS:

1-38 BADGER 7.5 MINUTE TOPO, 111845, DWIGHT LANGE, BADGER, MN, 56714, SAMPLE FROM HYDRANT ON PUMPHOUSE, WELL IS 46M SSE OF HOUSE;  
 1-78 DWIGHT LANGE & BADGER, MN., 56714;

602791 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP (C) + 13.0 WEATHER LT WIND-QUERCST  
 PHASE 2 MAP NM1412 SITE 0188 TIME TAKEN 09/07/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.494 (48 29' 38") LONG 96.444 (96 26' 38") CONTAMINANTS NONE  
 SURFACE GEOL UNIT OPG RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHQS/CM) 463 DISSOLVED OXYGEN (PPM) 2.1  
 WATER TEMP (C) + 10.3 VISIBILITY (M) CLEAR PH LO-ION PAPER 8.0  
 TOTAL ALKALINITY (PPM) 286 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 290  
 APPEARANCE CLEAR DISCHARGE (L/M) CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE  
 PRODUCING HORIZON OPG

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 1 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY CONSTANT  
 DEPTH TO PROD HORIZON (M) 85 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH (M) 87 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 NEW FOLDEN 15 MINUTE QUAD, 215362, GORDON BORSVOLD, STRANDQUIST, MN WELL IN PUMPHOUSE, SAMPLED OUTSIDE PUMPHOUSE;  
 1-78 GORDON BORSVOLD & STRANDQUIST, MN 56758;

602792 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP (C) + 14.0 WEATHER LT WIND-QUERCST  
 PHASE 2 MAP NM1412 SITE 0189 TIME TAKEN 10/07/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.486 (48 29' 9") LONG 96.522 (96 31' 19") CONTAMINANTS NONE  
 SURFACE GEOL UNIT OPG RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHQS/CM) 910 DISSOLVED OXYGEN (PPM) 1.7  
 WATER TEMP (C) + 14.3 VISIBILITY (M) CLEAR PH 7.1 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 416 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 420  
 APPEARANCE CLEAR DISCHARGE (L/M) CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE  
 PRODUCING HORIZON OPG

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 30 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY CONSTANT  
 DEPTH TO PROD HORIZON (M) 17 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE



WELL DEPTH(M) 23 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

J-38 FLORIAN 15 MINUTE QUAD, 215364, JULIUS KLEINWACHTER, STRANDQUIST, MN, WELL IN PUMPHOUSE, SAMPLED MILKROOM; I-78 JULIUS KLEINWACHTER & STRANDQUIST, MN 56758;

602793 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 15.0 WEATHER LT WIND-OVERCST PHASE 2 MAP NM1412 SITE 0190 TIME TAKEN 10/07/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE LOCATION: LAT 48.485( 48 29' 6") LONG 96.578( 96 34' 40") CONTAMINANTS NONE SURFACE GEOL UNIT OPG RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 734 DISSOLVED OXYGEN(PPM) 3.2 WATER TEMP(C) + 13.0 VISIBILITY(M) CLEAR PH 7.8 LO-ION PAPER TOTAL ALKALINITY(PPM) 540 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 538 APPEARANCE CLEAR DISCHARGE(L/M) PRODUCING HORIZON OPG CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC METERS FROM HEAD 10 WITH RESPECT TO PRESSURE TANK FROM USE HOUSEHOLD PUMPING FREQUENCY FREQUENT DEPTH TO PROD HORIZON(M) 17 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE WELL DEPTH(M) 18 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

J-38 FLORIAN 15 MINUTE QUAD, 101696, SEVERT SETTEN, STRANDQUIST, MN, WELL 10M SOUTH OF HOUSE, SAMPLED PRESSURE TANK IN BASEMENT; I-78 SEVERT SETTEN & STRANDQUIST, MN 56758;

602794 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 16.0 WEATHER LT WIND-OVERCST PHASE 2 MAP NM1412 SITE 0191 TIME TAKEN 11/07/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE LOCATION: LAT 48.443( 48 26' 34") LONG 96.590( 96 35' 24") CONTAMINANTS NONE SURFACE GEOL UNIT OTL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 639 DISSOLVED OXYGEN(PPM) 3.4 WATER TEMP(C) + 13.0 VISIBILITY(M) CLEAR PH 7.7 LO-ION PAPER TOTAL ALKALINITY(PPM) 392 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 400 APPEARANCE CLEAR DISCHARGE(L/M) PRODUCING HORIZON OPG CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC METERS FROM HEAD 1 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY CONSTANT DEPTH TO PROD HORIZON(M) 36 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE WELL DEPTH(M) 38 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

J-38 FLORIAN 15 MINUTE QUAD, 215372, EVALD KUJAVA, STRANDQUIST, MN, WELL IN PUMPHOUSE, SAMPLED PUMPHOUSE; I-78 EVALD KUJAVA & STRANDQUIST, MN 56758;

602795 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 16.0 WEATHER LT WIND-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0192 TIME TAKEN 11/07/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.449 ( 48 26'56" ) LONG 96.520 ( 96 31'12" ) CONTAMINANTS NONE  
 SURFACE GEOL UNIT OPG RESULTS REQ YES , RELEASED 801031 SAMPLE: COLOR - -CL - ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 494 DISSOLVED OXYGEN(PPM) 2.4  
 WATER TEMP(C) + 10.1 VISIBILITY(M) CLEAR PH 7.8 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 362 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 356  
 APPEARANCE CLEAR DISCHARGE(L/M) CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE  
 PRODUCING HORIZON OPG

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 1 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY CONSTANT  
 DEPTH TO PROD HORIZON(M) 30 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 34 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION OWNER

## REMARKS:

1-38 FLORIAN 15 MINUTE QUAD, 215374, C. EDWARD CARLSON, STRANDQUIST, MN, WELL IN PUMPHOUSE, SAMPLED PUMPHOUSE FAUCET;  
 1-78 C. EDWARD CARLSON & STRANDQUIST, MN 56758;

602796 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 16.0 WEATHER LT WIND-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0193 TIME TAKEN 12/07/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.447 ( 48 26'49" ) LONG 96.450 ( 96 27' 0" ) CONTAMINANTS NONE  
 SURFACE GEOL UNIT OPG RESULTS REQ YES , RELEASED 801031 SAMPLE: COLOR - -CL - ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 625 DISSOLVED OXYGEN(PPM) 1.9  
 WATER TEMP(C) + 12.3 VISIBILITY(M) CLEAR PH 7.5 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 410 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 412  
 APPEARANCE CLEAR DISCHARGE(L/M) CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE  
 PRODUCING HORIZON OPG

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 20 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY CONSTANT  
 DEPTH TO PROD HORIZON(M) 6 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 8 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION OWNER

## REMARKS:

1-38 NEH FOLDEN 15 MINUTE QUAD, VANCE LEFROOT, STRANDQUIST, MN, WELL IN TOOL SHED, SAMPLED EAST SIDE OF HOUSE;  
 1-78 VANCE LEFROOT & STRANDQUIST, MN. 56758;

602797 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 17.0 WEATHER LT WIND-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0194 TIME TAKEN 12/07/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.400 ( 48 24' 0" ) LONG 96.437 ( 96 26'13" ) CONTAMINANTS NONE  
 SURFACE GEOL UNIT OTL RESULTS REQ YES , RELEASED 801031 SAMPLE: COLOR - -CL - ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 490 DISSOLVED OXYGEN(PPM) 7.9  
 WATER TEMP(C) + 11.3 VISIBILITY(M) CLEAR PH 8.2 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 230 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 236

APPEARANCE	CLEAR	DISCHARGE(L/M)	PROBABLE	SOURCE	GEOL. INFERENCE
PRODUCING HORIZON	OPG	CONFIDENCE			

WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	STEEL	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD		WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSE/STOCK	PUMPING FREQUENCY	CONSTANT
DEPTH TO PROD HORIZON(M)	10	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION		GEOL. INFERENCE	
WELL DEPTH(M)	20	CONFIDENCE OF WELL DEPTH	HIGH	SOURCE OF DEPTH INFORMATION		OWNER	

REMARKS:

1-38 NEW FOLDEN 15 MINUTE QUAD, BENNIE HANSON, NEWFOLDEN, MN, WELL 10M NORTH OF HOUSE, SAMPLED NORTH SIDE OF HOUSE;  
 J-78 BENNIE HANSON & NEW FOLDEN, MN 56738;

602798 - TYPE WELL WATER REPLICATE SAMPLER DRS  
 PHASE 2 MAP NM1412 SITE 0195 TIME TAKEN 12/07/09/78 AIR TEMP(C) + 17.0 WEATHER LT WIND-QUERCUS L  
 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.414 (48 24'50") LONG 96.523 (96 31'22") CONTAMINANTS NONE  
 SURFACE GEOL UNIT OPG RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY (MICROMHOS/CM)	648	DISSOLVED OXYGEN (PPM)	2.0
WATER TEMP(C)	+ 11.2	VISIBILITY (M)	CLEAR	PH 7.7	LO-ION PAPER
TOTAL ALKALINITY (PPM)	442	P. ALKALINITY (PPM)	35	M. ALKALINITY (PPM)	438
APPEARANCE	CLEAR	DISCHARGE (L/M)			
PRODUCING HORIZON	OPG	CONFIDENCE	PROBABLE	SOURCE	GEOL. INFERENCE

WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	STEEL	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD		WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSEHOLD	PUMPING FREQUENCY	CONSTANT
DEPTH TO PROD HORIZON(M)	20	CONFIDENCE OF PRODUCING DEPTH	POSSIBLE	SOURCE OF PRODUCING INFORMATION		GEOL. INFERENCE	
WELL DEPTH(M)	23	CONFIDENCE OF WELL DEPTH	PROBABLE	SOURCE OF DEPTH INFORMATION		OWNER	

REMARKS:

1-38 FLORIAN 15 MINUTE QUAD, DEAN HOLMSTROM, STRANDQUIST, MN, WELL IN PUMPHOUSE, SAMPLED PUMPHOUSE WALL SPIGOT;  
 J-78 DEAN HOLMSTROM & STRANDQUIST, MN 56758;

602799 - TYPE WELL WATER REPLICATE SAMPLER DRS  
 PHASE 2 MAP NM1412 SITE 0196 TIME TAKEN 13/07/09/78 AIR TEMP(C) + 17.0 WEATHER -QUERCUS  
 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.415 (48 24'54") LONG 96.591 (96 35'27") CONTAMINANTS NONE  
 SURFACE GEOL UNIT OTL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY (MICROMHOS/CM)	662	DISSOLVED OXYGEN (PPM)	3.4
WATER TEMP(C)	+ 10.4	VISIBILITY (M)	CLEAR	PH 8.2	LO-ION PAPER
TOTAL ALKALINITY (PPM)	430	P. ALKALINITY (PPM)	35	M. ALKALINITY (PPM)	428
APPEARANCE	CLEAR	DISCHARGE (L/M)			
PRODUCING HORIZON	OPG	CONFIDENCE	PROBABLE	SOURCE	GEOL. INFERENCE

WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	STEEL	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD		WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSE/STOCK	PUMPING FREQUENCY	CONSTANT
DEPTH TO PROD HORIZON(M)	20	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION		GEOL. INFERENCE	
WELL DEPTH(M)	69	CONFIDENCE OF WELL DEPTH	HIGH	SOURCE OF DEPTH INFORMATION		OWNER	

## REMARKS:

1-78 BOB BOROWICZ & STRANDQUIST, MN 56758; 1-38 FLORIAN 15 MINUTE QUAD, 215358, BOB BOROWICZ, STRANDQUIST, MN, WELL IN PUMPHOUSE, SAMPLED PUMPHOUSE SPIGOT;

602800 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 17.0 WEATHER -OVERCAST  
 PHASE 2 MAP NM1412 SITE 0197 TIME TAKEN 13/07/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.348( 48 20'52") LONG 96.599( 96 35'56") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ NO , RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 819 DISSOLVED OXYGEN(PPM) 0.7  
 WATER TEMP(C) + 15.5 VISIBILITY(M) CLEAR PH 7.7 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 541 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 534  
 APPEARANCE CLEAR DISCHARGE(L/M)  
 PRODUCING HORIZON QPG CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 6 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON(M) 18 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 20 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION OWNER

## REMARKS:

1-38 FLORIAN 15 MINUTE QUAD, 101679, FRANKLIN JOHNSON, ARGYLE, MN, WELL 3 M WEST OF HOUSE, SAMPLED WEST SIDE OF HOUSE;

602801 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 18.0 WEATHER -OVERCAST  
 PHASE 2 MAP NM1412 SITE 0198 TIME TAKEN 14/07/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.349( 48 20'56") LONG 96.495( 96 29'42") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ YES , RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 596 DISSOLVED OXYGEN(PPM) 2.7  
 WATER TEMP(C) + 16.3 VISIBILITY(M) CLEAR PH 8.1 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 318 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 326  
 APPEARANCE CLEAR DISCHARGE(L/M)  
 PRODUCING HORIZON QPG CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 10 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY CONSTANT  
 DEPTH TO PROD HORIZON(M) 22 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 24 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION OWNER

## REMARKS:

1-38 NEW FOLDEN 7.5 MINUTE QUAD, VERN GREENE, NEW FOLDEN, MN, WELL 5 M NORTH OF FEED SHED, SAMPLED FEED SHED;  
 1-78 VERN GREENE & NEW FOLDEN, MN 56738;

602802 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 18.0 WEATHER LT WIND-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0199 TIME TAKEN 15/07/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.348( 48 20'52") LONG 96.410( 96 24'36") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ YES , RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	560	DISSOLVED OXYGEN(PPM)	2.8
WATER TEMP(C)	+ 13.3	VISIBILITY(M)	CLEAR	PH 8.2	LO-ION PAPER
TOTAL ALKALINITY(PPM)	322	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	326
APPEARANCE	CLEAR	DISCHARGE(L/M)			
PRODUCING HORIZON	OPG	CONFIDENCE	PROBABLE	SOURCE	GEOL. INFERENCE

## WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	STEEL	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD	15	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSEHOLD	PUMPING FREQUENCY	CONSTANT
DEPTH TO PROD HORIZON(M)	46	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION		GEOL. INFERENCE	
WELL DEPTH(M)	64	CONFIDENCE OF WELL DEPTH	HIGH	SOURCE OF DEPTH INFORMATION		OWNER	

## REMARKS:

1-38 NEW FOLDEN 15 MINUTE QUAD, 108003, DALE ROKKE, NEW FOLDEN, MN, WELL 2 M NORTH OF HOUSE, SAMPLED SOUTH SIDE OF HOUSE;  
 1-78 DALE ROKKE & NEW FOLDEN, MN 56738;

602803 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 26.5 WEATHER LT WIND-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0152 TIME TAKEN 19/06/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.772 (48 46'19") LONG 96.140 (96 8'24") CONTAMINANTS NONE  
 SURFACE GEOL UNIT OPG RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	930	DISSOLVED OXYGEN(PPM)	1.9
WATER TEMP(C)	+ 12.7	VISIBILITY(M)	CLEAR	PH 7.5	LO-ION PAPER
TOTAL ALKALINITY(PPM)	370	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	365
APPEARANCE	CLEAR	DISCHARGE(L/M)	30.00		
PRODUCING HORIZON	OPG	CONFIDENCE	HIGH	SOURCE	GEOL. INFERENCE

## WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	STEEL	PIPE COMPOSITION	COPPER
METERS FROM HEAD	22	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSE/STOCK	PUMPING FREQUENCY	FREQUENT
DEPTH TO PROD HORIZON(M)	41	CONFIDENCE OF PRODUCING DEPTH	HIGH	SOURCE OF PRODUCING INFORMATION		GEOL. INFERENCE	
WELL DEPTH(M)	42	CONFIDENCE OF WELL DEPTH	HIGH	SOURCE OF DEPTH INFORMATION		GEOL. INFERENCE	

## REMARKS:

1-38 HAUG 7.5 MINUTE TOPO, 103171, ALVIN SATHER, BADGER, MN., 56714, SAMPLE FROM HYDRANT ON WEST SIDE OF HOUSE, WELL IS 3M NE  
 OF HOUSE;  
 1-78 ALVIN SATHER & BADGER, MN., 56714;  
 3-21 3M OF PLASTIC;

602804 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 26.7 WEATHER -PT CLDY  
 PHASE 2 MAP NM1412 SITE 0153 TIME TAKEN 19/06/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.774 (48 46'26") LONG 96.217 (96 13' 1") CONTAMINANTS NONE  
 SURFACE GEOL UNIT OPG RESULTS REQ NO, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	940	DISSOLVED OXYGEN(PPM)	1.5
WATER TEMP(C)	+ 13.1	VISIBILITY(M)	CLEAR	PH 7.5	LO-ION PAPER
TOTAL ALKALINITY(PPM)	330	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	340
APPEARANCE	CLEAR	DISCHARGE(L/M)	95.00		
PRODUCING HORIZON	OPG	CONFIDENCE	HIGH	SOURCE	GEOL. INFERENCE

## WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	STEEL	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD	69	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSE/STOCK	PUMPING FREQUENCY	FREQUENT
DEPTH TO PROD HORIZON(M)	11	CONFIDENCE OF PRODUCING DEPTH	HIGH	SOURCE OF PRODUCING INFORMATION	GEOLOGICAL INFERENCE		
WELL DEPTH(M)	37	CONFIDENCE OF WELL DEPTH	HIGH	SOURCE OF DEPTH INFORMATION	GEOLOGICAL INFERENCE		

## REMARKS:

1-38 HAUG 7.5 MINUTE TOPO, 215164, RUDY BLAWAT, GREENBUSH, MN., 56726, SAMPLE FROM HYDRANT IN SHED SW OF HOUSE, WELL IS UNDER HOUSE;

602805	TYPE WELL WATER	REPLICATE	SAMPLER GJG	AIR TEMP(C)	+ 27.0	WEATHER	-PT CLDY
	PHASE 2	MAP NM1412	SITE 0154	TIME TAKEN	20/06/09/78	RELIEF	FLAT
	LOCATION: LAT	48.716 (48 42'57")	LONG	96.280 (96 16'48")	CONTAMINANTS	NONE	VEGETATION GRASS-MODERATE
	SURFACE GEOL UNIT	OPG	RESULTS REQ	YES	RELEASED	801031	SAMPLE: COLOR -CL -QDOR NONE

## GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY (MICROMHOS/CM)	810	DISSOLVED OXYGEN (PPM)	1.0
WATER TEMP (C)	+ 15.1	VISIBILITY (M)	CLEAR	PH	7.7
TOTAL ALKALINITY (PPM)	305	P ALKALINITY (PPM)	<5	M ALKALINITY (PPM)	310
APPEARANCE	CLEAR	DISCHARGE (L/M)		SOURCE	GEOLOGICAL INFERENCE
PRODUCING HORIZON	OPG	CONFIDENCE	HIGH		

## WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	NONE	PIPE COMPOSITION	GALVANIZED
METERS FROM HEAD	1	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSE/STOCK	PUMPING FREQUENCY	FREQUENT
DEPTH TO PROD HORIZON(M)	31	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	OWNER		
WELL DEPTH(M)	31	CONFIDENCE OF WELL DEPTH	PROBABLE	SOURCE OF DEPTH INFORMATION	OWNER		

## REMARKS:

1-38 PELAN 15 MINUTE TOPO, EDWARD SCHIRES, GREENBUSH, MN., 56726, SAMPLE FROM HYDRANT IN PUMPHOUSE, WELL IS 26M WEST OF HOUSE;  
1-78 EDWARD SCHIRES & GREENBUSH, MN., 56726;

602806	TYPE WELL WATER	REPLICATE	SAMPLER GJG	AIR TEMP(C)	+ 16.6	WEATHER	-OVERCAST
	PHASE 2	MAP NM1412	SITE 0155	TIME TAKEN	09/07/09/78	RELIEF	FLAT
	LOCATION: LAT	48.690 (48 41'24")	LONG	96.274 (96 16'26")	CONTAMINANTS	NONE	VEGETATION GRASS-MODERATE
	SURFACE GEOL UNIT	OPG	RESULTS REQ	YES	RELEASED	801031	SAMPLE: COLOR -CL -QDOR NONE

## GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY (MICROMHOS/CM)	730	DISSOLVED OXYGEN (PPM)	0.7
WATER TEMP (C)	+ 16.1	VISIBILITY (M)	CLEAR	PH	7.7
TOTAL ALKALINITY (PPM)	290	P ALKALINITY (PPM)	<5	M ALKALINITY (PPM)	285
APPEARANCE	CLEAR	DISCHARGE (L/M)	265.00	SOURCE	GEOLOGICAL INFERENCE
PRODUCING HORIZON	OPG	CONFIDENCE	HIGH		

## WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	STEEL	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD	21	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSE/STOCK	PUMPING FREQUENCY	FREQUENT
DEPTH TO PROD HORIZON(M)	48	CONFIDENCE OF PRODUCING DEPTH	HIGH	SOURCE OF PRODUCING INFORMATION	GEOLOGICAL INFERENCE		
WELL DEPTH(M)	58	CONFIDENCE OF WELL DEPTH	HIGH	SOURCE OF DEPTH INFORMATION	GEOLOGICAL INFERENCE		

## REMARKS:

1-38 PELAN 15 MINUTE TOPO, 111815, ROBERT MELBY, GREENBUSH, MN., 56726, SAMPLE FROM KITCHEN FAUCET, WELL IS 2M WEST OF HOUSE;  
1-78 ROBERT MELBY & GREENBUSH, MN., 56726;

602807 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 16.9 WEATHER -OVERCAST  
 PHASE 2 MAP NM1412 SITE 0156 TIME TAKEN 09/07/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.690 ( 48 41'24" ) LONG 96.364 ( 96 21'50" ) CONTAMINANTS NONE  
 SURFACE GEOL UNIT OPG RESULTS REQ NO , RELEASED 801031 SAMPLE: COLOR - -CL - ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 730 DISSOLVED OXYGEN(PPM) 2.4  
 WATER TEMP(C) + 9.4 VISIBILITY(M) CLEAR PH 7.8 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 325 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 330  
 APPEARANCE CLEAR DISCHARGE(L/M) CONFIDENCE HIGH SOURCE GEOL. INFERENCE  
 PRODUCING HORIZON OPG

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING OTHER PIPE COMPOSITION GALVANIZED  
 METERS FROM HEAD 1 WITH RESPECT TO PRESSURE TANK NONE USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON(M) 10 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH(M) 10 CONFIDENCE OF WELL DEPTH POSSIBLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 PELAN 15 MINUTE TOPO, STANLEY DZIEKONSKI, GREENBUSH, MN., 56726, SAMPLE FROM HYDRANT ON PUMP, WELL IS 19M SE OF HOUSE;  
 3-20 CONCRETE CASING;

602808 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 17.2 WEATHER -OVERCAST  
 PHASE 2 MAP NM1412 SITE 0157 TIME TAKEN 10/07/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.712 ( 48 42'43" ) LONG 96.342 ( 96 20'31" ) CONTAMINANTS NONE  
 SURFACE GEOL UNIT OPG RESULTS REQ YES , RELEASED 801031 SAMPLE: COLOR - -CL - ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 750 DISSOLVED OXYGEN(PPM) 1.2  
 WATER TEMP(C) + 8.2 VISIBILITY(M) CLEAR PH 7.8 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 310 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 315  
 APPEARANCE CLEAR DISCHARGE(L/M) 227.00 CONFIDENCE HIGH SOURCE GEOL. INFERENCE  
 PRODUCING HORIZON OPG

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION COPPER  
 METERS FROM HEAD 7 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON(M) 40 CONFIDENCE OF PRODUCING DEPTH HIGH SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 43 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

REMARKS:

1-38 PELAN 15 MINUTE TOPO, 131472, EDWARD MOONEY, GREENBUSH, MN., 56726, SAMPLE FROM HYDRANT ON SOUTH SIDE OF HOUSE, WELL IS 3M  
 SOUTH OF HOUSE;  
 1-78 EDWARD MOONEY & GREENBUSH, MN., 56726;  
 3-21 3M OF PLASTIC;

602809 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 17.8 WEATHER LT WIND-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0158 TIME TAKEN 11/07/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.718 ( 48 43' 4" ) LONG 96.218 ( 96 13' 4" ) CONTAMINANTS NONE  
 SURFACE GEOL UNIT OPG RESULTS REQ YES , RELEASED 801031 SAMPLE: COLOR - -CL - ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 630 DISSOLVED OXYGEN(PPM) 0.8

WATER TEMP(C) + 7.8 VISIBILITY(M) CLEAR PH 7.8 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 272 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 265  
 APPEARANCE CLEAR DISCHARGE(L/M) 30.00  
 PRODUCING HORIZON OPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD WITH RESPECT TO PRESSURE TANK BEFORE USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON(M) 49 CONFIDENCE OF PRODUCING DEPTH HIGH SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 49 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

REMARKS:

1-38 GREENBUSH 7.5 MINUTE TOPO, 215165, JEROME MLODZIK, GREENBUSH, MN., 56726, SAMPLE FROM HYDRANT IN PUMPHOUSE, WELL IS 25M NNE OF HOUSE;  
 1-78 JEROME MLODZIK & GREENBUSH, MN., 56726;

602810 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 18.6 WEATHER LT WIND-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0159 TIME TAKEN 12/07/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.711 (48 42'39") LONG 96.165 (96 9'54") CONTAMINANTS NONE  
 SURFACE GEOL UNIT OPG RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 1165 DISSOLVED OXYGEN(PPM) 0.8  
 WATER TEMP(C) + 7.9 VISIBILITY(M) CLEAR PH 7.3 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 332 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 325  
 APPEARANCE CLEAR DISCHARGE(L/M) 605.00  
 PRODUCING HORIZON OPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 57 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON(M) 16 CONFIDENCE OF PRODUCING DEPTH HIGH SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 55 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

REMARKS:

1-38 GREENBUSH 7.5 MINUTE TOPO, 103168, JEROME BURKEL, GREENBUSH, MN., 56726, SAMPLE FROM HYDRANT 12M NW OF TRAILER HOUSE, WELL IS 46M SOUTH OF TRAILER HOUSE;  
 1-78 JEROME BURKEL & BOX 299 & GREENBUSH, MN., 56726;

602811 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 19.0 WEATHER LT WIND-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0160 TIME TAKEN 13/07/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.689 (48 41'20") LONG 96.175 (96 10'30") CONTAMINANTS NONE  
 SURFACE GEOL UNIT OPG RESULTS REQ NO, RELEASED 801031 SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 1030 DISSOLVED OXYGEN(PPM) 2.2  
 WATER TEMP(C) + 21.9 VISIBILITY(M) CLEAR PH 7.5 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 262 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 255  
 APPEARANCE CLEAR DISCHARGE(L/M) 45.00  
 PRODUCING HORIZON OPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC



METERS FROM HEAD	9	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSEHOLD	PUMPING FREQUENCY	FREQUENT
DEPTH TO PROD HORIZON(M)	27	CONFIDENCE OF PRODUCING DEPTH	HIGH	SOURCE OF PRODUCING INFORMATION	GEOLOGICAL INFERENCE		
WELL DEPTH(M)	37	CONFIDENCE OF WELL DEPTH	HIGH	SOURCE OF DEPTH INFORMATION	GEOLOGICAL INFERENCE		

REMARKS:

J-38 GREENBUSH 7.5 MINUTE TOPO, 111821, BRAD ERICKSON, GREENBUSH, MN., 56726, SAMPLE FROM KITCHEN FAUCET, WELL IS 5M EAST OF HOUSE;

602812	TYPE WELL WATER	REPLICATE	SAMPLER GJG	AIR TEMP(C)	+ 19.4	WEATHER	LT WIND-OVERCAST
	PHASE 2	MAP NM1412	SITE 0161	TIME TAKEN	14/07/09/78	RELIEF	FLAT
	LOCATION: LAT	48.671( 48 40' 15")	LONG	96.235( 96 14' 6")	CONTAMINANTS	NONE	VEGETATION GRASS-MODERATE
	SURFACE GEOL UNIT	OPG	RESULTS REQ NO	RELEASED 801031			
				SAMPLE: COLOR - -CL ODOR NONE			

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	1100	DISSOLVED OXYGEN(PPM)	9.9
WATER TEMP(C)	+ 12.0	VISIBILITY(M)	CLEAR	PH	8.0 LO-ION PAPER
TOTAL ALKALINITY(PPM)	200	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	200
APPEARANCE	CLEAR	DISCHARGE(L/M)	227.00		
PRODUCING HORIZON	OPG	CONFIDENCE	HIGH	SOURCE	GEOLOGICAL INFERENCE

WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	STEEL	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD	45	WITH RESPECT TO PRESSURE TANK	AFTER	USE	OTHER	PUMPING FREQUENCY	FREQUENT
DEPTH TO PROD HORIZON(M)	70	CONFIDENCE OF PRODUCING DEPTH	HIGH	SOURCE OF PRODUCING INFORMATION	GEOLOGICAL INFERENCE		
WELL DEPTH(M)	72	CONFIDENCE OF WELL DEPTH	HIGH	SOURCE OF DEPTH INFORMATION	GEOLOGICAL INFERENCE		

REMARKS:

J-38 GREENBUSH 7.5 MINUTE TOPO, 147771, JIM STOLP, GREENBUSH, MN., 56726, SAMPLE FROM HYDRANT ON WEST SIDE OF SHOP, WELL IS SOUTH OF SHOP ONE METER;  
3-26 BUSINESS SUPPLY;

602813	TYPE WELL WATER	REPLICATE	SAMPLER GJG	AIR TEMP(C)	+ 19.9	WEATHER	-OVERCAST
	PHASE 2	MAP NM1412	SITE 0162	TIME TAKEN	15/07/09/78	RELIEF	FLAT
	LOCATION: LAT	48.627( 48 37' 37")	LONG	96.346( 96 20' 45")	CONTAMINANTS	NONE	VEGETATION GRASS-MODERATE
	SURFACE GEOL UNIT	OPG	RESULTS REQ YES	RELEASED 801031			
				SAMPLE: COLOR - -CL ODOR NONE			

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	835	DISSOLVED OXYGEN(PPM)	1.5
WATER TEMP(C)	+ 15.9	VISIBILITY(M)	CLEAR	PH	7.6 LO-ION PAPER
TOTAL ALKALINITY(PPM)	350	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	340
APPEARANCE	CLEAR	DISCHARGE(L/M)	38.00		
PRODUCING HORIZON	OPG	CONFIDENCE	HIGH	SOURCE	GEOLOGICAL INFERENCE

WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	STEEL	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD	19	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSE/STOCK	PUMPING FREQUENCY	FREQUENT
DEPTH TO PROD HORIZON(M)	51	CONFIDENCE OF PRODUCING DEPTH	HIGH	SOURCE OF PRODUCING INFORMATION	GEOLOGICAL INFERENCE		
WELL DEPTH(M)	62	CONFIDENCE OF WELL DEPTH	HIGH	SOURCE OF DEPTH INFORMATION	GEOLOGICAL INFERENCE		

REMARKS:

1-38 PELAN 15 MINUTE TOPO, 147759, MERTON KIRKEIDE, GREENBUSH, MN., 56726, SAMPLE FROM HYDRANT IN MILKROOM, WELL IS 16M NORTH OF BARN;  
1-78 MERTON KIRKEIDE & GREENBUSH, MN., 56726;

3-21 3M OF COPPER;

602814 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP (C) + 20.4 WEATHER LT WIND-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0163 TIME TAKEN 16/07/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.615 ( 48 36'54" ) LONG 96.266 ( 96 15'57" ) CONTAMINANTS NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ YES , RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 770 DISSOLVED OXYGEN (PPM) 1.2  
 WATER TEMP (C) + 9.0 VISIBILITY (M) CLEAR PH 7.2 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 270 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 265  
 APPEARANCE CLEAR DISCHARGE (L/M) 8.00  
 PRODUCING HORIZON QPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 20 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON (M) 54 CONFIDENCE OF PRODUCING DEPTH HIGH SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH (M) 59 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

## REMARKS:

J-38 PELAN 15 MINUTE TOPO, 132151, KENNETH LANGAAS, GREENBUSH, MN, 56726, SAMPLE FROM HYDRANT ON NORTH SIDE OF HOUSE, WELL IS  
 4M SOUTH OF HOUSE;  
 1-78 KENNETH LANGAAS & GREENBUSH, MN., 56726;

602815 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP (C) + 20.7 WEATHER -OVERCAST  
 PHASE 2 MAP NM1412 SITE 0164 TIME TAKEN 17/07/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.592 ( 48 35'31" ) LONG 96.306 ( 96 18'21" ) CONTAMINANTS NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ YES , RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 970 DISSOLVED OXYGEN (PPM) LQ  
 WATER TEMP (C) + 9.8 VISIBILITY (M) CLEAR PH 7.7 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 300 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 290  
 APPEARANCE CLEAR DISCHARGE (L/M) 189.00  
 PRODUCING HORIZON QPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 1 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON (M) 58 CONFIDENCE OF PRODUCING DEPTH HIGH SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH (M) 59 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

## REMARKS:

1-38 PELAN 15 MINUTE TOPO, 215189, VERNON LANGAAS, GREENBUSH, MN., 56726, SAMPLE FROM HYDRANT ON PUMPHOUSE, WELL IS 3M NORTH OF  
 NW CORNER OF HOUSE;  
 1-78 VERNON LANGAAS & GREENBUSH, MN., 56726;

602816 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP (C) + 21.0 WEATHER -OVERCAST  
 PHASE 2 MAP NM1412 SITE 0165 TIME TAKEN 18/07/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.571 ( 48 34'15" ) LONG 96.370 ( 96 22'12" ) CONTAMINANTS NONE

SURFACE GEOL UNIT QPG RESULTS REQ NO ,RELEASED 801031

SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE  
 WATER TEMP(C) + 13.2  
 TOTAL ALKALINITY (PPM) 180  
 APPEARANCE CLEAR  
 PRODUCING HORIZON QPG  
 CONDUCTIVITY (MICROMHOS/CM) 1480  
 VISIBILITY (M) CLEAR  
 P ALKALINITY (PPM) <5  
 DISCHARGE (L/M)  
 CONFIDENCE HIGH  
 DISSOLVED OXYGEN (PPM) 1.6  
 PH 7.6 LO-ION PAPER  
 M ALKALINITY (PPM) 183  
 SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED  
 METERS FROM HEAD 14  
 DEPTH TO PROD HORIZON (M) 13  
 WELL DEPTH (M) 13  
 POWER CLASSIFICATION ELECTRIC  
 WITH RESPECT TO PRESSURE TANK AFTER  
 CONFIDENCE OF PRODUCING DEPTH PROBABLE  
 CONFIDENCE OF WELL DEPTH PROBABLE  
 CASING GALVANIZED  
 PIPE COMPOSITION PLASTIC  
 USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT  
 SOURCE OF PRODUCING INFORMATION OWNER  
 SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 PELAN 15 MINUTE TOPO, LEONARD VEER, KARLSTAD, MN., 56732, SAMPLE FROM HYDRANT ON WEST SIDE OF HOUSE, WELL IS 4M WEST OF HOUSE.  
 3-21 9M OF COPPER;

602817 TYPE WELL WATER  
 PHASE 2 MAP NM1412 SITE 0166 TIME TAKEN 09/08/09/78  
 LOCATION: LAT 48.353 (48 21'10") LONG 96.356 (96 21'21")  
 SURFACE GEOL UNIT QPG RESULTS REQ YES ,RELEASED 801031

AIR TEMP (C) + 18.0 WEATHER LT WIND-CLEAR  
 RELIEF FLAT VEGETATION GRASS-MODERATE  
 CONTAMINANTS NONE

SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE  
 WATER TEMP(C) + 9.9  
 TOTAL ALKALINITY (PPM) 320  
 APPEARANCE CLEAR  
 PRODUCING HORIZON QPG  
 CONDUCTIVITY (MICROMHOS/CM) 690  
 VISIBILITY (M) CLEAR  
 P ALKALINITY (PPM) <5  
 DISCHARGE (L/M)  
 CONFIDENCE HIGH  
 DISSOLVED OXYGEN (PPM) 0.9  
 PH 7.6 LO-ION PAPER  
 M ALKALINITY (PPM) 325  
 SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED  
 METERS FROM HEAD 1  
 DEPTH TO PROD HORIZON (M) 63  
 WELL DEPTH (M) 64  
 POWER CLASSIFICATION ELECTRIC  
 WITH RESPECT TO PRESSURE TANK AFTER  
 CONFIDENCE OF PRODUCING DEPTH PROBABLE  
 CONFIDENCE OF WELL DEPTH PROBABLE  
 CASING STEEL  
 PIPE COMPOSITION PLASTIC  
 USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT  
 SOURCE OF PRODUCING INFORMATION OWNER  
 SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 NEHFOLDEN 15 MINUTE TOPO, WALLACE EKMAN, NEHFOLDEN, MN., 56738, SAMPLE FROM HYDRANT ON PUMPHOUSE, WELL IS ONE METER EAST OF HOUSE.  
 1-78 WALLACE EKMAN & NEHFOLDEN, MN., 56738;

602818 TYPE WELL WATER  
 PHASE 2 MAP NM1412 SITE 0167 TIME TAKEN 10/08/09/78  
 LOCATION: LAT 48.312 (48 18'43") LONG 96.370 (96 22'12")  
 SURFACE GEOL UNIT QPG RESULTS REQ YES ,RELEASED 801031

AIR TEMP (C) + 18.5 WEATHER LT WIND-CLEAR  
 RELIEF FLAT VEGETATION GRASS-MODERATE  
 CONTAMINANTS NONE

SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE  
 WATER TEMP(C) + 10.2  
 TOTAL ALKALINITY (PPM) 295  
 APPEARANCE CLEAR  
 PRODUCING HORIZON QPG  
 CONDUCTIVITY (MICROMHOS/CM) 275  
 VISIBILITY (M) CLEAR  
 P ALKALINITY (PPM) <5  
 DISCHARGE (L/M)  
 CONFIDENCE HIGH  
 DISSOLVED OXYGEN (PPM) 2.1  
 PH 7.5 LO-ION PAPER  
 M ALKALINITY (PPM) 290  
 SOURCE GEOL. INFERENCE

PRODUCING HORIZON QPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC
METERS FROM HEAD 38 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT
DEPTH TO PROD HORIZON(M) 46 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER
WELL DEPTH(M) 46 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

J-38 NEHFOLDEN 15 MINUTE TOPO, ARLIE PETERSON, NEHFOLDEN, MN., 56738, SAMPLE FROM KITCHEN FAUCET, WELL IS 32 M SW OF TRAILER HOME;
J-78 ARLIE PETERSON & NEHFOLDEN, MN., 56738;
3-21 6 M OF COPPER;

602819 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 19.1 WEATHER LT WIND-CLEAR
PHASE 2 MAP NM1412 SITE 0168 TIME TAKEN 11/08/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE
LOCATION: LAT 48.308( 48 18'28") LONG 96.327( 96 19'37") CONTAMINANTS NONE
SURFACE GEOL UNIT QPG RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 770 DISSOLVED OXYGEN(PPM) 1.7
WATER TEMP(C) + 9.2 VISIBILITY(M) CLEAR PH 7.2 LO-ION PAPER
TOTAL ALKALINITY(PPM) 215 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 220
APPEARANCE CLEAR DISCHARGE(L/M)
PRODUCING HORIZON QPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC
METERS FROM HEAD 1 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT
DEPTH TO PROD HORIZON(M) 39 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER
WELL DEPTH(M) 39 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

J-38 NEHFOLDEN 15 MINUTE TOPO, LOHELL HETLAND, NEHFOLDEN, MN., 56738, SAMPLE FROM HYDRANT IN PUMPHOUSE, WELL IS IN SW CORNER OF BARN;
I-78 LOHELL HETLAND & NEHFOLDEN, MN., 56738;

602820 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 19.9 WEATHER LT WIND-CLEAR
PHASE 2 MAP NM1412 SITE 0169 TIME TAKEN 12/08/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE
LOCATION: LAT 48.255( 48 15'18") LONG 96.326( 96 19'33") CONTAMINANTS NONE
SURFACE GEOL UNIT QPG RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 830 DISSOLVED OXYGEN(PPM) 5.3
WATER TEMP(C) + 10.6 VISIBILITY(M) CLEAR PH 7.6 LO-ION PAPER
TOTAL ALKALINITY(PPM) 265 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 270
APPEARANCE CLEAR DISCHARGE(L/M) 189.00
PRODUCING HORIZON QPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC
METERS FROM HEAD 34 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY FREQUENT
DEPTH TO PROD HORIZON(M) 62 CONFIDENCE OF PRODUCING DEPTH HIGH SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE

WELL DEPTH(M) 65 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

REMARKS:

J-38 NEWFOLDEN 15 MINUTE TOPO, 128437, NORAL LANGLIE, RT. 1, NEWFOLDEN, MN., 56738, SAMPLE FROM KITCHEN FAUCET, WELL IS 27 M NORTH OF HOUSE;  
 J-78 NORAL LANGLIE & RT. 1 & NEWFOLDEN, MN., 56738;  
 3-21 7 M OF COPPER;

602821 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 20.5 WEATHER LT WIND-CLEAR  
 PHASE 2 MAP NM1412 SITE 0170 TIME TAKEN 13/08/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.265 (48 15'54") LONG 96.354 (96 21'14") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ NO , RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 930 DISSOLVED OXYGEN (PPM) 3.3  
 WATER TEMP(C) + 22.3 VISIBILITY (M) CLEAR PH 7.2 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 315 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 305  
 APPEARANCE CLEAR DISCHARGE (L/M)  
 PRODUCING HORIZON QPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING OTHER PIPE COMPOSITION GALVANIZED  
 METERS FROM HEAD 1 WITH RESPECT TO PRESSURE TANK NONE USE HOUSEHOLD PUMPING FREQUENCY INFREQUENT  
 DEPTH TO PROD HORIZON(M) 10 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH(M) 10 CONFIDENCE OF WELL DEPTH POSSIBLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

J-38 NEWFOLDEN 15 MINUTE TOPO, OSCAR LARSON, NEWFOLDEN, MN., 56738, SAMPLE FROM PUMP ON WELL, WELL IS IN SHED 40 M NW OF HOUSE;  
 3-20 CONCRETE CASING;

602823 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 21.3 WEATHER LT WIND-CLEAR  
 PHASE 2 MAP NM1412 SITE 0171 TIME TAKEN 14/08/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.194 (48 11'38") LONG 96.358 (96 21'28") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ YES , RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 960 DISSOLVED OXYGEN (PPM) 2.1  
 WATER TEMP(C) + 14.1 VISIBILITY (M) CLEAR PH 7.5 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 275 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 280  
 APPEARANCE CLEAR DISCHARGE (L/M) 568.00  
 PRODUCING HORIZON QPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 300 WITH RESPECT TO PRESSURE TANK AFTER USE OTHER PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON(M) 52 CONFIDENCE OF PRODUCING DEPTH HIGH SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 67 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

REMARKS:

J-38 ROSEWOOD 7.5 MINUTE TOPO, 107947, DON PETERS, TRAILER COURT, VIKING, MN., 56760, SAMPLE FROM HYDRANT 300 M SOUTH OF WELL,  
 WELL IS IN CENTER OF TRAILER COURT;  
 1-78 DON PETERS & VIKING, MN., 56760;  
 3-26 PUBLIC SUPPLY AT TRAILER COURT;

602824 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 22.0 WEATHER LT WIND-CLEAR  
 PHASE 2 MAP NM1412 SITE 0172 TIME TAKEN 15/08/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.200 (48 12' 0") LONG 96.287 (96 17' 13") CONTAMINANTS NONE  
 SURFACE GEOL UNIT OPG RESULTS REQ NO , RELEASED BQ1031 SAMPLE COLOR - -CL - ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 1260 DISSOLVED OXYGEN (PPM) 1.0  
 WATER TEMP (C) + 12.7 VISIBILITY (M) CLEAR PH 7.2 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 280 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 285  
 APPEARANCE CLEAR DISCHARGE (L/M) SOURCE GEOL. INFERENCE  
 PRODUCING HORIZON OPG CONFIDENCE HIGH

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION GALVANIZED  
 METERS FROM HEAD 1 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON (M) 20 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH (M) 20 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

## REMARKS:

1-38 ROSEHOOD 7.5 MINUTE TOPO, EMIL HELLQUIST, RT. 2, THIEF RIVER FALLS, MN., 56701, SAMPLE FROM HYDRANT IN PUMPHOUSE, WELL IS 2 M NORTH OF BARN;

602825 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 23.0 WEATHER LT WIND-CLEAR  
 PHASE 2 MAP NM1412 SITE 0173 TIME TAKEN 16/08/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.210 (48 12' 36") LONG 96.230 (96 13' 48") CONTAMINANTS NONE  
 SURFACE GEOL UNIT OPG RESULTS REQ NO , RELEASED BQ1031 SAMPLE COLOR - -CL - ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 1460 DISSOLVED OXYGEN (PPM) 3.0  
 WATER TEMP (C) + 14.1 VISIBILITY (M) CLEAR PH 7.5 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 235 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 240  
 APPEARANCE CLEAR DISCHARGE (L/M) SOURCE GEOL. INFERENCE  
 PRODUCING HORIZON OPG CONFIDENCE HIGH

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION GALVANIZED  
 METERS FROM HEAD 5 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON (M) 49 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH (M) 49 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

## REMARKS:

1-38 THIEF RIVER FALLS NH 7.5 MINUTE TOPO, OTTO SAUGEN, RT. 2, THIEF RIVER FALLS, MN., 56701, SAMPLE FROM HYDRANT ON SOUTH SIDE OF HOUSE, WELL IS 2 M SOUTH OF HOUSE.

602826 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 23.9 WEATHER LT WIND-CLEAR  
 PHASE 2 MAP NM1412 SITE 0174 TIME TAKEN 17/08/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.254 (48 15' 14") LONG 96.248 (96 14' 52") CONTAMINANTS NONE  
 SURFACE GEOL UNIT OPG RESULTS REQ YES , RELEASED BQ1031 SAMPLE COLOR - -CL - ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 810 DISSOLVED OXYGEN (PPM) 1.1  
 WATER TEMP (C) + 10.3 VISIBILITY (M) CLEAR PH 7.5 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 302 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 302

APPEARANCE	CLEAR	DISCHARGE(L/M)	HIGH	SOURCE	GEOL. INFERENCE
PRODUCING HORIZON	QPG	CONFIDENCE			
WELL INFORMATION:					
TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	STEEL
METERS FROM HEAD	15	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSE/STOCK
DEPTH TO PROD HORIZON(M)	66	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	OWNER
WELL DEPTH(M)	66	CONFIDENCE OF WELL DEPTH	PROBABLE	SOURCE OF DEPTH INFORMATION	OWNER

REMARKS:  
 1-38 HOLT 7.5 MINUTE TOPO, RAYMOND SOURDIF, RT. 1, NEWFOLDEN, MN., 56738, SAMPLE FROM HYDRANT ON SOUTH SIDE OF BARN, WELL 15 14 M SOUTH OF BARN;  
 1-78 RAYMOND SOURDIF & RT. 1 & NEWFOLDEN, MN., 56738;

602827	TYPE WELL WATER	REPLICATE	SAMPLER DR5	AIR TEMP(C)	+ 18.0	WEATHER	LT WIND-OVERCST
	PHASE 2	MAP NM1412	SITE 0200	TIME TAKEN	16/07/09/78	RELIEF	FLAT
	LOCATION: LAT	48.296( 48 17'45")	LONG	96.422( 96 25'19")		CONTAMINANTS	NONE
	SURFACE GEOL UNIT	QPG	RESULTS REQ	YES	RELEASED	801031	
						SAMPLE: COLOR	- -CL ODOR NONE

GENERAL WATER INFORMATION:							
TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	685	DISSOLVED OXYGEN(PPM)	3.4		
WATER TEMP(C)	+ 15.6	VISIBILITY(M)	CLEAR	PH	8.2	LO-JON PAPER	
TOTAL ALKALINITY(PPM)	320	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	326		
APPEARANCE	CLEAR	DISCHARGE(L/M)					
PRODUCING HORIZON	QPG	CONFIDENCE	PROBABLE	SOURCE	GEOL. INFERENCE		

WELL INFORMATION:							
TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	STEEL	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD	15	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSEHOLD	PUMPING FREQUENCY	FREQUENT
DEPTH TO PROD HORIZON(M)	28	CONFIDENCE OF PRODUCING DEPTH	POSSIBLE	SOURCE OF PRODUCING INFORMATION	GEOL. INFERENCE		
WELL DEPTH(M)	31	CONFIDENCE OF WELL DEPTH	HIGH	SOURCE OF DEPTH INFORMATION	OWNER		

REMARKS:  
 1-38 NEWFOLDEN 15MINUTE QUAD, THOMAS GERSZEWSKI, NEWFOLDEN, MN, WELL UNDER GRAIN DRYER, SAMPLED BARN HYDRANT;  
 1-78 THOMAS GERSZEWSKI & NEWFOLDEN, MN 56738;

602828	TYPE WELL WATER	REPLICATE	SAMPLER DR5	AIR TEMP(C)	+ 18.0	WEATHER	-OVERCST
	PHASE 2	MAP NM1412	SITE 0226	TIME TAKEN	16/07/09/78	RELIEF	FLAT
	LOCATION: LAT	48.316( 48 18'57")	LONG	96.525( 96 31'30")		CONTAMINANTS	NONE
	SURFACE GEOL UNIT	QTL	RESULTS REQ	YES	RELEASED	801031	
						SAMPLE: COLOR	- -CL ODOR NONE

GENERAL WATER INFORMATION:							
TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	475	DISSOLVED OXYGEN(PPM)	6.2		
WATER TEMP(C)	+ 17.4	VISIBILITY(M)	CLEAR	PH	8.2	LO-JON PAPER	
TOTAL ALKALINITY(PPM)	248	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	256		
APPEARANCE	CLEAR	DISCHARGE(L/M)					
PRODUCING HORIZON	QPG	CONFIDENCE	PROBABLE	SOURCE	GEOL. INFERENCE		

WELL INFORMATION:							
TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	STEEL	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD	15	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSEHOLD	PUMPING FREQUENCY	FREQUENT
DEPTH TO PROD HORIZON(M)	16	CONFIDENCE OF PRODUCING DEPTH	POSSIBLE	SOURCE OF PRODUCING INFORMATION	GEOL. INFERENCE		
WELL DEPTH(M)	19	CONFIDENCE OF WELL DEPTH	HIGH	SOURCE OF DEPTH INFORMATION	OWNER		

## REMARKS:

1-38 FLORIAN 15 MINUTE QUAD, WILBERT GUNDERSON, VIKING, MN, WELL IN PUMPHOUSE, SAMPLED EAST SIDE OF HOUSE;  
1-78 WILBERT GUNDERSON & VIKING, MN 56760;

602829 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 19.0 WEATHER LT WIND-OVERCAST  
PHASE 2 MAP NM1412 SITE 0227 TIME TAKEN 17/07/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
LOCATION: LAT 48.310 (48 18'36") LONG 96.564 (96 33'50") CONTAMINANTS NONE  
SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL - QDOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 754 DISSOLVED OXYGEN (PPM) 2.1  
WATER TEMP(C) + 15.8 VISIBILITY(M) CLEAR PH 7.8 LO-ION PAPER  
TOTAL ALKALINITY (PPM) 356 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 358  
APPEARANCE CLEAR DISCHARGE (L/M)  
PRODUCING HORIZON QPG CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
METERS FROM HEAD 15 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY CONSTANT  
DEPTH TO PROD HORIZON (M) 24 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
WELL DEPTH (M) 27 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION OWNER

## REMARKS:

1-38 FLORIAN 15 MINUTE QUAD, HARRY HESS, ARGYLE, MN, WELL IN PUMPHOUSE, SAMPLED HYDRANT 5M SOUTH OF HOUSE;  
1-78 HARRY HESS & ARGYLE, MN 56713;

602830 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 18.0 WEATHER LT WIND-CLEAR  
PHASE 2 MAP NM1412 SITE 0228 TIME TAKEN 09/08/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
LOCATION: LAT 48.266 (48 15'57") LONG 96.423 (96 25'22") CONTAMINANTS NONE  
SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL - QDOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 1019 DISSOLVED OXYGEN (PPM) 0.7  
WATER TEMP(C) + 15.8 VISIBILITY(M) CLEAR PH LO-ION PAPER 7.5  
TOTAL ALKALINITY (PPM) 172 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 170  
APPEARANCE CLEAR DISCHARGE (L/M)  
PRODUCING HORIZON QPG CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
METERS FROM HEAD 50 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY CONSTANT  
DEPTH TO PROD HORIZON (M) 43 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
WELL DEPTH (M) 46 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

## REMARKS:

1-38 NEWFOLDEN 15 MINUTE QUAD, JAMES OLSON, VIKING, MN, WELL IN PUMPHOUSE SAMPLED SHEEP BARN;  
1-51 KRET IS PRESENT;  
1-78 JAMES OLSON & VIKING, MN 56760;

602831 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 19.0 WEATHER -CLEAR  
PHASE 2 MAP NM1412 SITE 0229 TIME TAKEN 10/08/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE



LOCATION: LAT 48.264 (48 15'50") LONG 96.516 (96 30'57")  
 SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031

CONTAMINANTS NONE

SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE	CONDUCTIVITY (MICROMHOS/CM)	532	DISSOLVED OXYGEN (PPM)	1.3
WATER TEMP (C) + 9.6	VISIBILITY (M)	CLEAR	PH 7.1 LO-ION PAPER	
TOTAL ALKALINITY (PPM) 330	P ALKALINITY (PPM)	<5	M ALKALINITY (PPM)	332
APPEARANCE CLEAR	DISCHARGE (L/M)			
PRODUCING HORIZON QPG	CONFIDENCE PROBABLE		SOURCE GEOL. INFERENCE	

WELL INFORMATION:

TYPE DRILLED	POWER CLASSIFICATION ARTESIAN	CASING STEEL	PIPE COMPOSITION PLASTIC
METERS FROM HEAD 0	WITH RESPECT TO PRESSURE TANK NONE	USE NONE	PUMPING FREQUENCY CONSTANT
DEPTH TO PROD HORIZON (M) 31	CONFIDENCE OF PRODUCING DEPTH POSSIBLE	SOURCE OF PRODUCING INFORMATION	GEOL. INFERENCE
WELL DEPTH (M) 34	CONFIDENCE OF WELL DEPTH POSSIBLE	SOURCE OF DEPTH INFORMATION	OWNER

REMARKS:

J-38 FLORIAN 15 MINUTE QUAD, GLENN VOYTILLA, VIKING, MN, WELL 30M SE OF HOUSE, SAMPLED AT HEAD;  
 I-51 KRET IS PRESENT;  
 I-78 GLENN VOYTILLA & VIKING, MN 56760;

602832 TYPE WELL WATER REPLICATE SAMPLER DRS  
 PHASE 2 MAP NM1412 SITE 0230 TIME TAKEN 10/08/09/78  
 LOCATION: LAT 48.190 (48 11'24") LONG 96.437 (96 26'13")  
 SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031

AIR TEMP (C) + 19.0 WEATHER LT WIND-CLEAR  
 RELIEF FLAT VEGETATION GRASS-MODERATE  
 CONTAMINANTS NONE

SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE	CONDUCTIVITY (MICROMHOS/CM)	839	DISSOLVED OXYGEN (PPM)	L L
WATER TEMP (C) + 14.5	VISIBILITY (M)	CLEAR	PH 7.7 LO-ION PAPER	
TOTAL ALKALINITY (PPM) 278	P ALKALINITY (PPM)	<5	M ALKALINITY (PPM)	290
APPEARANCE CLEAR	DISCHARGE (L/M)			
PRODUCING HORIZON QPG	CONFIDENCE PROBABLE		SOURCE GEOL. INFERENCE	

WELL INFORMATION:

TYPE DRILLED	POWER CLASSIFICATION ELECTRIC	CASING STEEL	PIPE COMPOSITION PLASTIC
METERS FROM HEAD 50	WITH RESPECT TO PRESSURE TANK AFTER	USE HOUSE/STOCK	PUMPING FREQUENCY CONSTANT
DEPTH TO PROD HORIZON (M) 49	CONFIDENCE OF PRODUCING DEPTH PROBABLE	SOURCE OF PRODUCING INFORMATION	GEOL. INFERENCE
WELL DEPTH (M) 56	CONFIDENCE OF WELL DEPTH PROBABLE	SOURCE OF DEPTH INFORMATION	OWNER

REMARKS:

I-38 VIKING 7.5 MINUTE QUAD, 105630, RUBEN RABENHORST, VIKING, MN, WELL IN PUMPHOUSE, SAMPLED HYDRANT AT PIG PEN;  
 I-51 KRET IS PRESENT;  
 I-78 RUBEN RABENHORST & VIKING, MN 56760;

602834 TYPE WELL WATER REPLICATE SAMPLER DRS  
 PHASE 2 MAP NM1412 SITE 0231 TIME TAKEN 11/08/09/78  
 LOCATION: LAT 48.222 (48 13'19") LONG 96.494 (96 29'38")  
 SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031

AIR TEMP (C) + 20.0 WEATHER LT WIND-CLEAR  
 RELIEF FLAT VEGETATION GRASS-MODERATE  
 CONTAMINANTS NONE

SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE	CONDUCTIVITY (MICROMHOS/CM)	789	DISSOLVED OXYGEN (PPM)	6.5
WATER TEMP (C) + 19.9	VISIBILITY (M)	CLEAR	PH 8.0 LO-ION PAPER	
TOTAL ALKALINITY (PPM) 318	P ALKALINITY (PPM)	<5	M ALKALINITY (PPM)	324

APPEARANCE	CLEAR	DISCHARGE(L/M)	PROBABLE	SOURCE	GEOL. INFERENCE
PRODUCING HORIZON	OPG	CONFIDENCE			
WELL INFORMATION:					
TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING STEEL	PIPE COMPOSITION PLASTIC
METERS FROM HEAD	90	WITH RESPECT TO PRESSURE TANK	AFTER	USE HOUSE/STOCK	PUMPING FREQUENCY CONSTANT
DEPTH TO PROD HORIZON(M)	28	CONFIDENCE OF PRODUCING DEPTH	POSSIBLE	SOURCE OF PRODUCING INFORMATION	GEOL. INFERENCE
WELL DEPTH(M)	31	CONFIDENCE OF WELL DEPTH	PROBABLE	SOURCE OF DEPTH INFORMATION	OWNER

REMARKS:

1-38 VIKING 7.5 MINUTE QUAD, ROBERT H. OLSON, VIKING, MN, WELL 100M SOUTH OF HOUSE, SAMPLED KITCHEN;  
 1-51 KRET IS PRESENT;  
 1-78 ROBERT H. OLSON & VIKING, MN 56760;

602835	TYPE WELL WATER	REPLICATE	SAMPLER DRS	AIR TEMP(C) + 22.0	WEATHER -CLEAR
	PHASE 2 MAP NM1412	SITE 0232	TIME TAKEN 12/08/09/78	RELIEF FLAT	VEGETATION GRASS-MODERATE
	LOCATION: LAT 48.211( 48 12' 39")	LONG 96.587( 96 35' 13")		CONTAMINANTS NONE	
	SURFACE GEOL UNIT OPG	RESULTS REQ YES	RELEASED 801031		SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE	CONDUCTIVITY(MICROMHOS/CM)	671	DISSOLVED OXYGEN(PPM)	3.6
WATER TEMP(C)	VISIBILITY(M)	CLEAR	PH 8.2 LO-ION PAPER	
TOTAL ALKALINITY(PPM)	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	288
APPEARANCE CLEAR	DISCHARGE(L/M)			
PRODUCING HORIZON	OPG	CONFIDENCE	PROBABLE	SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING STEEL	PIPE COMPOSITION PLASTIC
METERS FROM HEAD	15	WITH RESPECT TO PRESSURE TANK	AFTER	USE HOUSE/STOCK	PUMPING FREQUENCY CONSTANT
DEPTH TO PROD HORIZON(M)	28	CONFIDENCE OF PRODUCING DEPTH	POSSIBLE	SOURCE OF PRODUCING INFORMATION	GEOL. INFERENCE
WELL DEPTH(M)	31	CONFIDENCE OF WELL DEPTH	HIGH	SOURCE OF DEPTH INFORMATION	OWNER

REMARKS:

1-38 RADJUM 7.5 MINUTE QUAD, WILLIAM OMDAHL, WARREN, MN, WELL AT WEST END OF HOUSE, SAMPLED SPJGDT ON SOUTH SIDE OF HOUSE;  
 1-51 KRET IS PRESENT;  
 1-78 WILLIAM OMDAHL & WARREN, MN 56762;

602836	TYPE WELL WATER	REPLICATE	SAMPLER DRS	AIR TEMP(C) + 22.0	WEATHER U WINDY-CLEAR
	PHASE 2 MAP NM1412	SITE 0233	TIME TAKEN 13/08/09/78	RELIEF FLAT	VEGETATION GRASS-MODERATE
	LOCATION: LAT 48.268( 48 16' 4")	LONG 96.573( 96 34' 22")		CONTAMINANTS NONE	
	SURFACE GEOL UNIT QTL	RESULTS REQ YES	RELEASED 801031		SAMPLE: COLOR - -CL ODOR H2S

GENERAL WATER INFORMATION:

TREATMENT NONE	CONDUCTIVITY(MICROMHOS/CM)	696	DISSOLVED OXYGEN(PPM)	0.5
WATER TEMP(C)	VISIBILITY(M)	CLEAR	PH 7.9 LO-ION PAPER	
TOTAL ALKALINITY(PPM)	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	368
APPEARANCE CLEAR	DISCHARGE(L/M)			
PRODUCING HORIZON	OPG	CONFIDENCE	PROBABLE	SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING STEEL	PIPE COMPOSITION PLASTIC
METERS FROM HEAD	1	WITH RESPECT TO PRESSURE TANK	AFTER	USE HOUSEHOLD	PUMPING FREQUENCY FREQUENT
DEPTH TO PROD HORIZON(M)	47	CONFIDENCE OF PRODUCING DEPTH	POSSIBLE	SOURCE OF PRODUCING INFORMATION	GEOL. INFERENCE

WELL DEPTH(M) 49 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 FLORIAN 15 MINUTE QUAD, CLIFFORD MCGREGOR, WARREN, MN, WELL IN PUMPHOUSE, SAMPLED PUMPHOUSE;
1-51 KRET IS PRESENT;
1-78 CLIFFORD MCGREGOR & RT 2 & WARREN, MN 56762;

602837 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 24.0 WEATHER U WINDY-CLEAR
PHASE 2 MAP NM1412 SITE 0234 TIME TAKEN 13/08/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE
LOCATION: LAT 48.267(48 16' 1") LONG 96.621(96 37' 15") CONTAMINANTS NONE
SURFACE GEOL UNIT QPG RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 486 DISSOLVED OXYGEN(PPM) 1.9
WATER TEMP(C) + 12.9 VISIBILITY(M) CLEAR PH 8.2 LO-ION PAPER
TOTAL ALKALINITY(PPM) 260 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 266
APPEARANCE CLEAR DISCHARGE(L/M)
PRODUCING HORIZON QPG CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC
METERS FROM HEAD WITH RESPECT TO PRESSURE TANK AFTER USE STOCK PUMPING FREQUENCY FREQUENT
DEPTH TO PROD HORIZON(M) 67 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE
WELL DEPTH(M) 68 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 FLORIAN 15 MINUTE QUAD, 103184, JIM POTUCEK, WARREN, MN, WELL AT WEST END OF STOCK PEN, SAMPLED HOSE FROM HEAD TO STOCK
TANK;
1-51 KRET IS PRESENT;
1-78 JIM POTUCEK & RT 1 & WARREN, MN 56762;

602838 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 28.0 WEATHER U WINDY-CLEAR
PHASE 2 MAP NM1412 SITE 0235 TIME TAKEN 13/08/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE
LOCATION: LAT 48.217(48 13' 1") LONG 96.621(96 37' 15") CONTAMINANTS NONE
SURFACE GEOL UNIT QPG RESULTS REQ NO, RELEASED 801031 SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 964 DISSOLVED OXYGEN(PPM) 0.3
WATER TEMP(C) + 20.9 VISIBILITY(M) CLEAR PH 8.1 LO-ION PAPER
TOTAL ALKALINITY(PPM) 236 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 244
APPEARANCE CLEAR DISCHARGE(L/M)
PRODUCING HORIZON QPG CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC
METERS FROM HEAD WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY FREQUENT
DEPTH TO PROD HORIZON(M) 69 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE
WELL DEPTH(M) 73 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 RADIUM 7.5 MINUTE QUAD, 128416, GEORGE MONROE, WARREN, MN, WELL 2M NORTH OF HOUSE, SAMPLED SOUTH SIDE OF HOUSE;
1-51 KRET IS PRESENT;

602839 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 24.6 WEATHER LT WIND-CLEAR  
 PHASE 2 MAP NM1412 SITE 0175 TIME TAKEN 18/08/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.257 (48 15'25") LONG 96.160 (96 9'36") CONTAMINANTS NONE  
 SURFACE GEOL UNIT OPG RESULTS REQ NO , RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 855 DISSOLVED OXYGEN (PPM) 1.8  
 WATER TEMP(C) + 10.5 VISIBILITY(M) CLEAR PH 7.8 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 255 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 255  
 APPEARANCE CLEAR DISCHARGE (L/M)  
 PRODUCING HORIZON OPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION GALVANIZED  
 METERS FROM HEAD 1 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON (M) 38 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH (M) 38 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

## REMARKS:

1-38 HOLT 7.5 MINUTE TOPO, FRED VOTH, RT. 2, THIEF RIVER FALLS, MN., 56701, SAMPLE FROM HYDRANT ON PUMPHOUSE, WELL IS 11M SE OF BARN:

602840 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 25.2 WEATHER LT WIND-CLEAR  
 PHASE 2 MAP NM1412 SITE 0201 TIME TAKEN 18/08/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.254 (48 15'14") LONG 96.089 (96 5'20") CONTAMINANTS NONE  
 SURFACE GEOL UNIT OPG RESULTS REQ NO , RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 820 DISSOLVED OXYGEN (PPM) 0.9  
 WATER TEMP(C) + 13.0 VISIBILITY(M) CLEAR PH 7.7 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 265 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 270  
 APPEARANCE CLEAR DISCHARGE (L/M)  
 PRODUCING HORIZON OPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION COPPER  
 METERS FROM HEAD 19 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON (M) 49 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH (M) 49 CONFIDENCE OF WELL DEPTH POSSIBLE SOURCE OF DEPTH INFORMATION OWNER

## REMARKS:

1-38 MIDDLE RIVER SE 7.5 MINUTE TOPO, LOYD HAAGENSON, RT. 2, THIEF RIVER FALLS, MN., 56701, SAMPLE FROM KITCHEN FAUCET, WELL IS 9M NW OF HOUSE;  
 3-21 9M OF PLASTIC

602841 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 26.1 WEATHER LT WIND-CLEAR  
 PHASE 2 MAP NM1412 SITE 0202 TIME TAKEN 19/08/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.212 (48 12'43") LONG 96.153 (96 9'10") CONTAMINANTS NONE  
 SURFACE GEOL UNIT OPG RESULTS REQ NO , RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 940 DISSOLVED OXYGEN (PPM) 3.1  
 WATER TEMP(C) + 10.3 VISIBILITY(M) CLEAR PH 7.3 LO-ION PAPER

TOTAL ALKALINITY (PPM) 300 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 300  
 APPEARANCE CLEAR DISCHARGE (L/M) 473.00  
 PRODUCING HORIZON QPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON (M) 60 CONFIDENCE OF PRODUCING DEPTH HIGH SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH (M) 68 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

REMARKS:

J-38 THIEF RIVER FALLS NW 7.5 MINUTE TOPO, 105656, BRUCE RUSSELL, RT. 2, THIEF RIVER FALLS, MN, 56701, SAMPLE FROM HYDRANT LN WEST SIDE OF BARN, WELL IS 2M WEST OF BARN;

602842 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP (C) + 27.2 WEATHER LT WIND-CLEAR  
 PHASE 2 MAP NM1412 SITE 0203 TIME TAKEN 19/08/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.209 (48 12' 32") LONG 96.093 (96 5' 34") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 1270 DISSOLVED OXYGEN (PPM) 5.4  
 WATER TEMP (C) + 14.4 VISIBILITY (M) CLEAR PH 7.4 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 250 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 240  
 APPEARANCE CLEAR DISCHARGE (L/M) PRODUCING HORIZON QPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON (M) 56 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH (M) 56 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

J-38 THIEF RIVER FALLS NE 7.5 MINUTE TOPO, JARVIS JORGESON, RT. 2, THIEF RIVER FALLS, MN, 56701, SAMPLE FROM HYDRANT LN SW CORNER OF BARN, WELL IS 16M SOUTH OF BARN;

602843 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP (C) + 28.3 WEATHER LT WIND-CLEAR  
 PHASE 2 MAP NM1412 SITE 0204 TIME TAKEN 19/08/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.201 (48 12' 3") LONG 96.005 (96 0' 18") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 940 DISSOLVED OXYGEN (PPM) 1.1  
 WATER TEMP (C) + 10.8 VISIBILITY (M) CLEAR PH 7.5 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 250 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 258  
 APPEARANCE CLEAR DISCHARGE (L/M) 379.00 PRODUCING HORIZON QPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON (M) 40 CONFIDENCE OF PRODUCING DEPTH HIGH SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH (M) 57 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

## REMARKS:

1-38 THIEF RIVER FALLS NE 7.5 MINUTE TOPO, 107916, DAVID SCHWARTZ, RT. 3, GOODRIDGE, MN., 56725, SAMPLE FROM HYDRANT ON WEST SIDE OF HOUSE, WELL IS 16M NORTH OF HOUSE;  
 1-78 DAVID SCHWARTZ & RT. 3 & GOODRIDGE, MN., 56725;  
 3-21 9M OF COPPER;

602844 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 28.6 WEATHER LT WIND-CLEAR  
 PHASE 2 MAP NM1412 SITE 0205 TIME TAKEN 20/08/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.173 (48 10'22") LONG 96.009 (96 0'32") CONTAMINANTS NONE  
 SURFACE GEOL UNIT OPG RESULTS REQ NO , RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 730 DISSOLVED OXYGEN(PPM) 1.3  
 WATER TEMP(C) + 11.8 VISIBILITY(M) CLEAR PH 7.5 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 270 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 265  
 APPEARANCE CLEAR DISCHARGE(L/M) CONFIDENCE HIGH SOURCE GEOL. INFERENCE  
 PRODUCING HORIZON OPG

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 71 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON(M) 41 CONFIDENCE OF PRODUCING DEPTH HIGH SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 45 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

## REMARKS:

1-38 THIEF RIVER FALLS NE 7.5 MINUTE TOPO, 105674, DOYLE NELSON, RT. 1, GOODRIDGE, MN., 56725, SAMPLE FROM HYDRANT ON WEST SIDE OF HOUSE, WELL IS 65M SOUTH OF HOUSE;  
 3-21 6M OF COPPER;

602845 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 19.0 WEATHER LT WIND-PJ CLDY  
 PHASE 2 MAP NM1412 SITE 0206 TIME TAKEN 09/09/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.163 (48 9'46") LONG 96.129 (96 7'44") CONTAMINANTS NONE  
 SURFACE GEOL UNIT OPG RESULTS REQ NO , RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 820 DISSOLVED OXYGEN(PPM) 0.8  
 WATER TEMP(C) + 9.1 VISIBILITY(M) CLEAR PH 7.1 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 275 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 280  
 APPEARANCE CLEAR DISCHARGE(L/M) 473.00 CONFIDENCE HIGH SOURCE GEOL. INFERENCE  
 PRODUCING HORIZON OPG

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 15 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON(M) 105 CONFIDENCE OF PRODUCING DEPTH HIGH SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 114 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

## REMARKS:

1-38 THIEF RIVER FALLS NW 7.5 MINUTE TOPO, 128426, FRANK PESEK, RT. 2, THIEF RIVER FALLS, MN., 56701, SAMPLE FROM HYDRANT ON SW CORNER OF HOUSE, WELL IS 10M SOUTH OF SW CORNER OF HOUSE;  
 3-21 5M OF COPPER;

602846 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 19.5 WEATHER LT WIND-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0207 TIME TAKEN 10/09/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.160 (48 9'36") LONG 96.084 (96 5' 2") CONTAMINANTS NONE  
 SURFACE GEOL UNIT OPG RESULTS REQ NO , RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 1460 DISSOLVED OXYGEN (PPM) 0.3  
 WATER TEMP (C) + 14.1 VISIBILITY (M) CLEAR PH 7.1 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 240 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 250  
 APPEARANCE CLEAR DISCHARGE (L/M) CONFIDENCE HIGH SOURCE GEOL. INFERENCE  
 PRODUCING HORIZON OPG

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 42 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON (M) 32 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH (M) 32 CONFIDENCE OF WELL DEPTH POSSIBLE SOURCE OF DEPTH INFORMATION OWNER

## REMARKS:

1-38 THIEF RIVER FALLS NE 7.5 MINUTE TOPO, ART JOPPRU, RT. 4, THIEF RIVER FALLS, MN., 56701, SAMPLE FROM HYDRANT IN CHICKEN BARN 40M NORTH OF WELL, WELL IS 39M NORTH OF HOUSE;

602847 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 19.9 WEATHER LT WIND-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0208 TIME TAKEN 11/09/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.106 (48 6'21") LONG 96.034 (96 2' 2") CONTAMINANTS NONE  
 SURFACE GEOL UNIT OPG RESULTS REQ YES , RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 700 DISSOLVED OXYGEN (PPM) 0.8  
 WATER TEMP (C) + 13.7 VISIBILITY (M) CLEAR PH 7.5 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 220 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 225  
 APPEARANCE CLEAR DISCHARGE (L/M) CONFIDENCE HIGH SOURCE GEOL. INFERENCE  
 PRODUCING HORIZON OPG

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION GALVANIZED  
 METERS FROM HEAD 2 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON (M) 27 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH (M) 27 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

## REMARKS:

1-38 HAZEL 7.5 MINUTE TOPO, HARRY BOLSTAD, RT. 4, THIEF RIVER FALLS, MN., 56701, SAMPLE FROM HYDRANT ON PUMPHOUSE, WELL IS 2M SOUTH OF SW CORNER OF BARN;  
 J-78 HARRY BOLSTAD RT. 4 THIEF RIVER FALLS, MN., 56701

602848 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 20.3 WEATHER LT WIND-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0209 TIME TAKEN 12/09/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.113 (48 6'46") LONG 96.090 (96 5'24") CONTAMINANTS NONE  
 SURFACE GEOL UNIT OPG RESULTS REQ YES , RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 750 DISSOLVED OXYGEN (PPM) 1.1  
 WATER TEMP (C) + 13.6 VISIBILITY (M) CLEAR PH 7.6 LO-ION PAPER

TOTAL ALKALINITY (PPM) 300 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 290  
 APPEARANCE CLEAR DISCHARGE (L/M) 132.00  
 PRODUCING HORIZON OPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 15 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON (M) 69 CONFIDENCE OF PRODUCING DEPTH HIGH SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH (M) 71 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

REMARKS:

1-38 HAZEL 7.5 MINUTE TOPO, 103122, VERNON SORENSON, RT. 4, THIEF RIVER FALLS, MN., 56701, SAMPLE FROM HYDRANT ON SOUTH SIDE OF HOUSE, WELL IS 10M SW OF HOUSE;  
 1-78 VERNON SORENSON & RT. 4 & THIEF RIVER FALLS, MN., 56701;  
 3-21 5M OF COPPER;

602849 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP (C) + 20.9 WEATHER LT WIND-CLEAR  
 PHASE 2 MAP NM1412 SITE 0210 TIME TAKEN 13/09/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.130 (48 7'48") LONG 96.153 (96 9'10") CONTAMINANTS NONE  
 SURFACE GEOL UNIT OPG RESULTS REQ YES, RELEASED 801031 SAMPLE COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 700 DISSOLVED OXYGEN (PPM) 0.4  
 WATER TEMP (C) + 10.3 VISIBILITY (M) CLEAR PH 7.5 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 304 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 300  
 APPEARANCE CLEAR DISCHARGE (L/M) 134.00  
 PRODUCING HORIZON OPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 13 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON (M) 69 CONFIDENCE OF PRODUCING DEPTH HIGH SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH (M) 78 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

REMARKS:

1-38 THIEF RIVER FALLS NH 7.5 MINUTE TOPO, 105676, FLOYD DALZEL, RT. 4, THIEF RIVER FALLS, MN., 56701, SAMPLE FROM HYDRANT ON SOUTH SIDE OF HOUSE, WELL IS 7M SW OF HOUSE;  
 1-78 FLOYD DALZEL & RT. 4 & THIEF RIVER FALLS, MN., 56701;  
 3-21 6M OF COPPER;

602850 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP (C) + 21.4 WEATHER LT WIND-CLEAR  
 PHASE 2 MAP NM1412 SITE 0210 TIME TAKEN 14/09/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.063 (48 3'46") LONG 96.157 (96 9'25") CONTAMINANTS NONE  
 SURFACE GEOL UNIT OPG RESULTS REQ YES, RELEASED 801031 SAMPLE COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 830 DISSOLVED OXYGEN (PPM) 1.1  
 WATER TEMP (C) + 11.4 VISIBILITY (M) CLEAR PH 7.4 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 350 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 350  
 APPEARANCE CLEAR DISCHARGE (L/M) 208.00  
 PRODUCING HORIZON OPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

WELL INFORMATION:



TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	STEEL	PIPE COMPOSITION	COPPER
METERS FROM HEAD	16	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSEHOLD	PUMPING FREQUENCY	FREQUENT
DEPTH TO PROD HORIZON(M)	50	CONFIDENCE OF PRODUCING DEPTH	HIGH	SOURCE OF PRODUCING INFORMATION	GEOLOGICAL INFERENCE		
WELL DEPTH(M)	58	CONFIDENCE OF WELL DEPTH	HIGH	SOURCE OF DEPTH INFORMATION	GEOLOGICAL INFERENCE		

REMARKS:

1-38 THIEF RIVER FALLS 7.5 MINUTE TOPO, T28449, ARNOLD ENGELSTAD, RT. 3, THIEF RIVER FALLS, MN., 56701, SAMPLE FROM KITCHEN FAUCET, WELL IS 2M SE OF HOUSE;  
 1-78 ARNOLD ENGELSTAD & RT. 3 & THIEF RIVER FALLS, MN., 56701;  
 3-21 2M OF PLASTIC

602851	TYPE	WELL WATER	REPLICATE	SAMPLER	DRS	AIR TEMP(C)	+ 26.0	WEATHER	U WINDY-CLEAR
	PHASE 2	MAP NM1412	SITE 0236	TIME TAKEN	14/08/09/78	RELIEF	FLAT	VEGETATION	GRASS-MODERATE
	LOCATION: LAT	48 210 (48 12'36")	LONG	96 714 (96 42'50")	CONTAMINANTS	NONE			
	SURFACE GEOL UNIT	OTL	RESULTS REQ NO	, RELEASED 801031					
						SAMPLE: COLOR	-CL	ODOR	NONE

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	1387	DISSOLVED OXYGEN(PPM)	1.2
WATER TEMP(C)	+ 19.3	VISIBILITY(M)	CLEAR	PH	7.7 LO-ION PAPER
TOTAL ALKALINITY(PPM)	170	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	170
APPEARANCE	CLEAR	DISCHARGE(L/M)			
PRODUCING HORIZON	QPG	CONFIDENCE	PROBABLE	SOURCE	GEOLOGICAL INFERENCE

WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	STEEL	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD	51	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSE/STOCK	PUMPING FREQUENCY	CONSTANT
DEPTH TO PROD HORIZON(M)	51	CONFIDENCE OF PRODUCING DEPTH	POSSIBLE	SOURCE OF PRODUCING INFORMATION	GEOLOGICAL INFERENCE		
WELL DEPTH(M)	54	CONFIDENCE OF WELL DEPTH	PROBABLE	SOURCE OF DEPTH INFORMATION	USER		

REMARKS:

1-38 ROAN 7.5 MINUTE QUAD, P. MORKASSEL, WARREN, MN, WELL 35M EAST OF HOUSE, SAMPLED HEAD HYDRANT;  
 1-51 KRET JS PRESENT

602852	TYPE	WELL WATER	REPLICATE	SAMPLER	DRS	AIR TEMP(C)	+ 26.0	WEATHER	U WINDY-CLEAR
	PHASE 2	MAP NM1412	SITE 0237	TIME TAKEN	16/08/09/78	RELIEF	FLAT	VEGETATION	GRASS-MODERATE
	LOCATION: LAT	48 273 (48 16'22")	LONG	96 713 (96 42'46")	CONTAMINANTS	NONE			
	SURFACE GEOL UNIT	OTL	RESULTS REQ YES	, RELEASED 801031					
						SAMPLE: COLOR	-CL	ODOR	NONE

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	1072	DISSOLVED OXYGEN(PPM)	1.0
WATER TEMP(C)	+ 15.4	VISIBILITY(M)	CLEAR	PH	8.0 LO-ION PAPER
TOTAL ALKALINITY(PPM)	290	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	296
APPEARANCE	CLEAR	DISCHARGE(L/M)			
PRODUCING HORIZON	QPG	CONFIDENCE	PROBABLE	SOURCE	GEOLOGICAL INFERENCE

WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	STEEL	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD	5	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSEHOLD	PUMPING FREQUENCY	FREQUENT
DEPTH TO PROD HORIZON(M)	39	CONFIDENCE OF PRODUCING DEPTH	POSSIBLE	SOURCE OF PRODUCING INFORMATION	GEOLOGICAL INFERENCE		
WELL DEPTH(M)	41	CONFIDENCE OF WELL DEPTH	HIGH	SOURCE OF DEPTH INFORMATION	OWNER		

REMARKS:

1-38 FLORIAN 15 MINUTE QUAD, EARL JORGENSEN, WARREN MN, WELL 40M NE OF HOUSE, SAMPLED HYDRANT 5M FROM HEAD;

1-51 KRET IS PRESENT;  
1-78 EARL JORGENSEN & RT 1 & WARREN, MN 56760;

602853 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 26.0 WEATHER U WINDY-CLEAR  
PHASE 2 MAP NM1412 SITE 0238 TIME TAKEN 17/08/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
LOCATION: LAT 48.302( 48 18' 7") LONG 96.777( 96 46' 37") CONTAMINANTS NONE  
SURFACE GEOL UNIT QTL RESULTS REQ YES ,RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 865 DISSOLVED OXYGEN(PPM) 2.5  
WATER TEMP(C) + 15.3 VISIBILITY(M) CLEAR PH 7.4 LO-ION PAPER  
TOTAL ALKALINITY(PPM) 372 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 378  
APPEARANCE CLEAR DISCHARGE(L/M)  
PRODUCING HORIZON QTL CONFIDENCE PROBABLE SOURCE GEOL INFERENCE

WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION ELECTRIC CASING OTHER PIPE COMPOSITION PLASTIC  
METERS FROM HEAD 3 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY CONSTANT  
DEPTH TO PROD HORIZON(M) 5 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION GEOL INFERENCE  
WELL DEPTH(M) 7 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 STEPHEN 15 MINUTE QUAD, MARK YUTZENKA, ARGYLE, MN, WELL 3M NORTH OF HOUSE, SAMPLE NORTH SIDE OF HOUSE;  
1-51 KRET IS PRESENT;  
1-78 MARK YUTZENKA & ARGYLE, MN 56713;  
3-20 CONCRETE CASING;

602854 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 25.0 WEATHER U WINDY-CLEAR  
PHASE 2 MAP NM1412 SITE 0239 TIME TAKEN 18/08/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
LOCATION: LAT 48.272( 48 16' 19") LONG 96.758( 96 45' 28") CONTAMINANTS NONE  
SURFACE GEOL UNIT QTL RESULTS REQ NO ,RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 845 DISSOLVED OXYGEN(PPM) 3.3  
WATER TEMP(C) + 11.6 VISIBILITY(M) CLEAR PH 8.0 LO-ION PAPER  
TOTAL ALKALINITY(PPM) 396 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 400  
APPEARANCE CLEAR DISCHARGE(L/M)  
PRODUCING HORIZON QPG CONFIDENCE PROBABLE SOURCE GEOL INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION STEEL  
METERS FROM HEAD 2 WITH RESPECT TO PRESSURE TANK NONE USE HOUSEHOLD PUMPING FREQUENCY FREQUENT  
DEPTH TO PROD HORIZON(M) 17 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION GEOL INFERENCE  
WELL DEPTH(M) 20 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 STEPHEN 15 MINUTE QUAD, HARVEY NICHOLS, ARGYLE, MN, WELL 20 M NE OF HOUSE, SAMPLED HEAD PIPE;  
1-51 KRET IS PRESENT;

602855 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 20.0 WEATHER CALM-CLEAR  
PHASE 2 MAP NM1412 SITE 0240 TIME TAKEN 09/09/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE

LOCATION: LAT 48.222 (48 13' 19") LONG 96.753 (96 45' 10") CONTAMINANTS NONE

SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 1053 DISSOLVED OXYGEN (PPM) 2.2
WATER TEMP (C) + 20.5 VISIBILITY (M) CLEAR PH 7.5 LO-ION PAPER
TOTAL ALKALINITY (PPM) 448 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 454
APPEARANCE CLEAR DISCHARGE (L/M)

PRODUCING HORIZON QPG CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC
METERS FROM HEAD 15 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY CONSTANT
DEPTH TO PROD HORIZON (M) 23 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE
WELL DEPTH (M) 25 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 WARREN 15 MINUTE QUAD, EMIL PRIBULA, WARREN, MN, WELL 10M NE OF HOUSE, SAMPLED SOUTH SIDE OF HOUSE;
1-78 EMIL PRIBULA & WARREN, MN 56762;
1-51 KRET IS PRESENT;

602856 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP (C) + 22.0 WEATHER CALM-CLEAR
PHASE 2 MAP NM1412 SITE 0241 TIME TAKEN 09/09/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE
LOCATION: LAT 48.265 (48 15' 54") LONG 96.871 (96 52' 15") CONTAMINANTS NONE
SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 1429 DISSOLVED OXYGEN (PPM) 3.9
WATER TEMP (C) + 9.9 VISIBILITY (M) CLEAR PH 7.5 LO-ION PAPER
TOTAL ALKALINITY (PPM) 242 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 236
APPEARANCE CLEAR DISCHARGE (L/M)

PRODUCING HORIZON QPG CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION GALVANIZED
METERS FROM HEAD 1 WITH RESPECT TO PRESSURE TANK NONE USE NONE PUMPING FREQUENCY RARE
DEPTH TO PROD HORIZON (M) 22 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE
WELL DEPTH (M) 25 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 STEPHEN 15 MINUTE QUAD, ALLYN ROLEY, WARREN, MN, WELL 35M NW OF HOUSE, SAMPLED AT HEAD;
1-51 KRET IS PRESENT;
1-78 ALLYN ROLEY & RT 1 & WARREN, MN 56762;

602857 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP (C) + 22.0 WEATHER CALM-CLEAR
PHASE 2 MAP NM1412 SITE 0242 TIME TAKEN 10/09/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE
LOCATION: LAT 48.277 (48 16' 37") LONG 96.928 (96 55' 40") CONTAMINANTS NONE
SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 1445 DISSOLVED OXYGEN (PPM) 3.7
WATER TEMP (C) + 17.6 VISIBILITY (M) CLEAR PH 7.5 LO-ION PAPER
TOTAL ALKALINITY (PPM) 200 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 198

APPEARANCE CLEAR DISCHARGE(L/M) PROBABLE SOURCE GEOL. INFERENCE  
 PRODUCING HORIZON QPG CONFIDENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ARTESIAN CASING STEEL PIPE COMPOSITION OTHER  
 METERS FROM HEAD 0 WITH RESPECT TO PRESSURE TANK NONE USE NONE PUMPING FREQUENCY RARE  
 DEPTH TO PROD HORIZON(M) 43 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 46 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-78 WALTER LUXEMBURG RT 1 & WARREN, MN 567 1-38 STEVEN 15 MINUTE QUAD, WALTER LUXEMBURG, WARREN, MN, WELL 1M SOUTH OF BARN,  
 SAMPLED CRIB;  
 3-21 NO PIPE;

602858 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 22.0 WEATHER CALM-CLEAR  
 PHASE 2 MAP NM1412 SITE 0243 TIME TAKEN 11/09/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.230( 48 13'48") LONG 96.937( 96 56'13") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 1300 DISSOLVED OXYGEN(PPM) 3.6  
 WATER TEMP(C) + 16.7 VISIBILITY(M) CLEAR PH 7.7 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 556 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 568  
 APPEARANCE CLEAR DISCHARGE(L/M)  
 PRODUCING HORIZON QPG CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE \*

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ARTESIAN CASING STEEL PIPE COMPOSITION OTHER  
 METERS FROM HEAD 0 WITH RESPECT TO PRESSURE TANK NONE USE NONE PUMPING FREQUENCY RARE  
 DEPTH TO PROD HORIZON(M) 54 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 61 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 WARREN 15 MINUTE QUAD, EVANS WAHLIN, WARREN, MN, WELL 10M EAST OF BARN, DIPPED SAMPLED FROM CRIB  
 1-51 KRET IS PRESENT;  
 1-78 EVANS WAHLIN RT 1 & WARREN, MN 56762;  
 3-21 NONE;

602859 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 22.0 WEATHER LT WIND-CLEAR  
 PHASE 2 MAP NM1412 SITE 0244 TIME TAKEN 12/09/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.192( 48 11'31") LONG 96.997( 96 59'49") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 1189 DISSOLVED OXYGEN(PPM) 1.3  
 WATER TEMP(C) + 10.3 VISIBILITY(M) CLEAR PH 8.1 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 232 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 234  
 APPEARANCE CLEAR DISCHARGE(L/M)  
 PRODUCING HORIZON QPG CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION STEEL  
 METERS FROM HEAD 2 WITH RESPECT TO PRESSURE TANK NONE USE MUNICIPAL PUMPING FREQUENCY CONSTANT

DEPTH TO PROD HORIZON(M) 46 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 52 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION USER

REMARKS:

1-38 WARREN 15 MINUTE QUAD, CITY OF ALVARADO, MN, WELL IN PUMPHOUSE, SAMPLED PUMPHOUSE;  
 1-51 KRET IS PRESENT;  
 1-78 HERB MONK CITY OF ALVARADO, ALVARADO, MN, 56710;

602861 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 23.0 WEATHER CALM-CLEAR  
 PHASE 2 MAP NM1412 SITE 0245 TIME TAKEN 12/09/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.181( 48 10'51") LONG 97.072( 97 4'19") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ NO ,RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 1626 DISSOLVED OXYGEN(PPM) 0.4  
 WATER TEMP(C) + 13.2 VISIBILITY(M) CLEAR PH 7.7 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 98 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 96  
 APPEARANCE CLEAR DISCHARGE(L/M)  
 PRODUCING HORIZON QPG CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ARTESIAN CASING STEEL PIPE COMPOSITION OTHER  
 METERS FROM HEAD 0 WITH RESPECT TO PRESSURE TANK NONE USE NONE PUMPING FREQUENCY RARE  
 DEPTH TO PROD HORIZON(M) 59 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 61 CONFIDENCE OF WELL DEPTH POSSIBLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 OSLO NE 7.5 MINUTE QUAD, MODIN BROS, OSLO, MN, WELL 35M WEST OF HOUSE, SAMPLED AT HEAD;  
 1-51 KRET IS PRESENT;  
 3-21 NO PIPE;

602862 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 23.0 WEATHER -CLEAR  
 PHASE 2 MAP NM1412 SITE 0246 TIME TAKEN 13/09/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.179( 48 10'44") LONG 96.860( 96 51'36") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ YES ,RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 1468 DISSOLVED OXYGEN(PPM) 2.5  
 WATER TEMP(C) + 14.0 VISIBILITY(M) CLEAR PH 8.0 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 230 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 232  
 APPEARANCE CLEAR DISCHARGE(L/M)  
 PRODUCING HORIZON QPG CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 20 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY CONSTANT  
 DEPTH TO PROD HORIZON(M) 28 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 31 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 WARREN 15 MINUTE QUAD, ALVIN HENDRICKSON, WARREN, MN, WELL 1M FROM YARD POLE, SAMPLED BARN HYDRANT;  
 1-51 KRET IS PRESENT;  
 1-78 ALVIN HENDRICKSON RT 2, WARREN, MN 56762;

602863 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 22.0 WEATHER LT WIND-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0212 TIME TAKEN 15/09/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.063( 48 3'46") LONG 96.085( 96 5' 6") CONTAMINANTS NONE  
 SURFACE GEOL UNIT OPG RESULTS REQ NO ,RELEASED 801031 SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:  
 TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 1220 DISSOLVED OXYGEN(PPM) 0.9  
 WATER TEMP(C) + 11.4 VISIBILITY(M) CLEAR PH 7.2 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 365 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 370  
 APPEARANCE CLEAR DISCHARGE(L/M) 265.00  
 PRODUCING HORIZON PCHS CONFIDENCE HIGH SOURCE GEOL. INFERENCE

WELL INFORMATION:  
 TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION GALVANIZED  
 METERS FROM HEAD 1 WITH RESPECT TO PRESSURE TANK AFTER USE STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON(M) 135 CONFIDENCE OF PRODUCING DEPTH HIGH SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 137 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

REMARKS:  
 1-38 HAZEL 7.5 MINUTE TOPO, 105680, BERT VIGEN, RT.3, THIEF RIVER FALLS, MN., 56701, SAMPLE FROM HYDRANT ON PUMPHOUSE, WELL IS 11M ESE OF BARN;

602864 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 22.7 WEATHER LT WIND-CLEAR  
 PHASE 2 MAP NM1412 SITE 0213 TIME TAKEN 16/09/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.068( 48 4' 4") LONG 96.028( 96 1'40") CONTAMINANTS NONE  
 SURFACE GEOL UNIT OPG RESULTS REQ NO ,RELEASED 801031 SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:  
 TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 630 DISSOLVED OXYGEN(PPM) 0.8  
 WATER TEMP(C) + 8.4 VISIBILITY(M) CLEAR PH 7.6 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 280 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 290  
 APPEARANCE CLEAR DISCHARGE(L/M)  
 PRODUCING HORIZON OPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

WELL INFORMATION:  
 TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 1 WITH RESPECT TO PRESSURE TANK BEFORE USE STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON(M) 35 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH(M) 35 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:  
 1-38 HAZEL 7.5 MINUTE TOPO, FREEMAN LANSKA, RT.4, THIEF RIVER FALLS, MN., 56701, SAMPLE FROM HYDRANT ON PUMP, WELL IS 45 NW OF HOUSE;

602865 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 23.4 WEATHER LT WIND-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0214 TIME TAKEN 17/09/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.025( 48 1'30") LONG 96.045( 96 2'42") CONTAMINANTS NONE  
 SURFACE GEOL UNIT OPG RESULTS REQ YES ,RELEASED 801031 SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:  
 TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 970 DISSOLVED OXYGEN(PPM) 0.3  
 WATER TEMP(C) + 12.8 VISIBILITY(M) CLEAR PH 7.0 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 480 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 465

APPEARANCE CLEAR DISCHARGE(L/M) 473.00  
 PRODUCING HORIZON QPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 31 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON(M) 40 CONFIDENCE OF PRODUCING DEPTH HIGH SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 43 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

## REMARKS:

1-38 HAZEL 7.5 MINUTE TOPO, T28438, ROBERT BAUNE, RT. 3, THIEF RIVER FALLS, MN., 56701, SAMPLE FROM HYDRANT IN BARN 29M NORTH OF  
 WELL, WELL IS 1/2 M NORTH OF HOUSE;  
 1-78 ROBERT BAUNE, RT. 3, THIEF RIVER FALLS, MN., 56701;

602866 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 24.0 WEATHER LT WIND-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0215 TIME TAKEN 10/09/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.020( 48 1'12") LONG 96.096( 96 5'45") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ NO ,RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 720 DISSOLVED OXYGEN(PPM) 0.9  
 WATER TEMP(C) + 12.3 VISIBILITY(M) CLEAR PH 7.2 LD-JON PAPER  
 TOTAL ALKALINITY(PPM) 270 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 280  
 APPEARANCE CLEAR DISCHARGE(L/M)  
 PRODUCING HORIZON QPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION GALVANIZED  
 METERS FROM HEAD 2 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON(M) 32 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH(M) 32 CONFIDENCE OF WELL DEPTH POSSIBLE SOURCE OF DEPTH INFORMATION OWNER

## REMARKS:

1-38 HAZEL 7.5 MINUTE TOPO, G. GUSTAFSON, RT. 4, THIEF RIVER FALLS, MN., 56701, SAMPLE FROM HYDRANT ON PUMPHOUSE, WELL IS 1/2 M NW  
 OF HOUSE;

602867 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 24.7 WEATHER LT WIND-CLEAR  
 PHASE 2 MAP NM1412 SITE 0216 TIME TAKEN 10/09/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.021( 48 1'15") LONG 96.177( 96 10'37") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ NO ,RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 1390 DISSOLVED OXYGEN(PPM) 0.5  
 WATER TEMP(C) + 9.1 VISIBILITY(M) CLEAR PH 7.1 LD-JON PAPER  
 TOTAL ALKALINITY(PPM) 360 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 360  
 APPEARANCE CLEAR DISCHARGE(L/M)  
 PRODUCING HORIZON QPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING PLASTIC PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 9 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON(M) 45 CONFIDENCE OF PRODUCING DEPTH HIGH SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 50 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

REMARKS:

1-38 THIEF RIVER FALLS 7.5 MINUTE TOPO, 105650, ELTON LARSON, RT. 1, ST. HILAIRE, MN., 56754, SAMPLE FROM HYDRANT ON SW CORNER OF HOUSE, WELL IS 6M WSW OF HOUSE;  
 3-21 3M OF COPPER;

602868 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 25.1 WEATHER LT WIND-CLEAR  
 PHASE 2 MAP NM1412 SITE 0217 TIME TAKEN 19/09/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.027( 48 1'37") LONG 96.239( 96 14'20") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ NO ,RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 860 DISSOLVED OXYGEN(PPM) 0.9  
 WATER TEMP(C) + 13.9 VISIBILITY(M) CLEAR PH 7.4 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 360 P ALKALINITY(PPM) 45 M ALKALINITY(PPM) 360  
 APPEARANCE CLEAR DISCHARGE(L/M)  
 PRODUCING HORIZON QPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON(M) 26 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH(M) 26 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 THIEF RIVER FALLS 7.5 MINUTE TOPO, ORVILLE MORTZ, RT. 5, THIEF RIVER FALLS, MN., 56701, SAMPLE FROM HYDRANT ON SE CORNER OF HOUSE, WELL IS 12M ESE OF HOUSE;  
 3-21 4M OF COPPER;

602869 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 17.0 WEATHER LT WIND-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0218 TIME TAKEN 09/11/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.157( 48 9'25") LONG 96.209( 96 12'32") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ YES ,RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 1180 DISSOLVED OXYGEN(PPM) 1.7  
 WATER TEMP(C) + 7.8 VISIBILITY(M) CLEAR PH 7.6 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 330 P ALKALINITY(PPM) 45 M ALKALINITY(PPM) 330  
 APPEARANCE CLEAR DISCHARGE(L/M) 189.00  
 PRODUCING HORIZON QPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD WITH RESPECT TO PRESSURE TANK AFTER USE OTHER PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON(M) 48 CONFIDENCE OF PRODUCING DEPTH HIGH SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 52 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

REMARKS:

1-38 THIEF RIVER FALLS 7.5 MINUTE TOPO, 125740, NORMAN OLSON, BOX 618, THIEF RIVER FALLS, MN., 56701, SAMPLE FROM HYDRANT ON WELL, WELL IS 3M SOUTH OF BUSINESS OFFICE;  
 1-78 NORMAN OLSON, BOX 618, THIEF RIVER FALLS, MN., 56701;  
 3-26 BUSINESS SUPPLY;



602870 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 17.4 WEATHER LT WIND-RAINY  
 PHASE 2 MAP NM1412 SITE 0219 TIME TAKEN 10/11/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.160 (48 9' 36") LONG 96.303 (96 18' 10") CONTAMINANTS NONE  
 SURFACE GEOL UNIT OPG RESULTS REQ NO , RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 750 DISSOLVED OXYGEN (PPM) 0.8  
 WATER TEMP(C) + 9.2 VISIBILITY(M) CLEAR PH 7.4 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 375 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 360  
 APPEARANCE CLEAR DISCHARGE (L/M) 151.00  
 PRODUCING HORIZON OPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 1 WITH RESPECT TO PRESSURE TANK BEFORE USE HOUSEHOLD PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON (M) 78 CONFIDENCE OF PRODUCING DEPTH HIGH SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH (M) 85 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

## REMARKS:

1-38 ROSEHOOD 7.5 MINUTE TOPO, 107917, ROGER DYRDAL, RT. 1, THIEF RIVER FALLS, MN., 56701, SAMPLE FROM HYDRANT IN PUMPHOUSE,  
 WELL IS 21M NW OF HOUSE;

602871 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 17.8 WEATHER LT WIND-RAINY  
 PHASE 2 MAP NM1412 SITE 0220 TIME TAKEN 11/11/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.134 (48 8' 2") LONG 96.297 (96 17' 49") CONTAMINANTS NONE  
 SURFACE GEOL UNIT OPG RESULTS REQ YES , RELEASED 801031 SAMPLE: COLOR - -CL ODOR H2S

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 770 DISSOLVED OXYGEN (PPM) 0.2  
 WATER TEMP(C) + 13.5 VISIBILITY(M) CLEAR PH 7.8 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 310 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 315  
 APPEARANCE CLEAR DISCHARGE (L/M) 322.00  
 PRODUCING HORIZON PCUI CONFIDENCE HIGH SOURCE GEOL. INFERENCE

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 33 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON (M) 126 CONFIDENCE OF PRODUCING DEPTH HIGH SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH (M) 136 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

## REMARKS:

1-38 ROSEHOOD 7.5 MINUTE TOPO, 105671, LEONARD SKAAR, RT. 1, THIEF RIVER FALLS, MN., 56701, SAMPLE FROM KITCHEN TAP, WELL IS  
 24M SE OF HOUSE;  
 1-78 LEONARD SKAAR RT. 1, THIEF RIVER FALLS, MN., 56701  
 2-74 WELL PRODUCES FROM OPG ON TOP OF PCMS;  
 3-21 9M OF COPPER;

602872 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 18.1 WEATHER LT WIND-RAINY  
 PHASE 2 MAP NM1412 SITE 0221 TIME TAKEN 12/11/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.127 (48 7' 37") LONG 96.218 (96 13' 4") CONTAMINANTS NONE  
 SURFACE GEOL UNIT OPG RESULTS REQ YES , RELEASED 801031 SAMPLE: COLOR - -CL ODOR H2S

## GENERAL WATER INFORMATION:

TREATMENT NONE  
 WATER TEMP(C) + 8.5 CONDUCTIVITY(MICROMHOS/CM) 805 DISSOLVED OXYGEN(PPM) 0.2  
 TOTAL ALKALINITY(PPM) 402 VISIBILITY(M) CLEAR PH 7.5 LO-ION PAPER  
 APPEARANCE CLEAR P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 400  
 PRODUCING HORIZON QPG DISCHARGE(L/M) 322.00 SOURCE GEOL. INFERENCE  
 CONFIDENCE HIGH

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 2 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON(M) 67 CONFIDENCE OF PRODUCING DEPTH HIGH SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 78 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

REMARKS:

1-38 THIEF RIVER FALLS NH 7.5 MINUTE TOPO, 105618, DAVE FIMRITE, RT. 1, THIEF RIVER FALLS, MN., 56701, SAMPLE FROM HYDRANT NEXT TO WELL, WELL IS 28M EAST OF HOUSE;  
 J-78 DAVE FIMRITE RT. 1, BOX 3048 THIEF RIVER FALLS, MN., 56701;

602873 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 18.6 WEATHER LT WIND-RAINY  
 PHASE 2 MAP NM1412 SITE 0222 TIME TAKEN 13/11/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.073 (48 4'22") LONG 96.203 (96 12'10") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR -CL ODOR H2S

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 735 DISSOLVED OXYGEN(PPM) 0.1  
 WATER TEMP(C) + 9.5 VISIBILITY(M) CLEAR PH 7.6 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 340 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 344  
 APPEARANCE CLEAR DISCHARGE(L/M) 189.00  
 PRODUCING HORIZON QPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION COPPER  
 METERS FROM HEAD 20 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON(M) 43 CONFIDENCE OF PRODUCING DEPTH HIGH SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 45 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

REMARKS:

1-38 THIEF RIVER FALLS 7.5 MINUTE TOPO, 105604, EDGAR HETTEEN, RT. 5, THIEF RIVER FALLS, MN., 56701, SAMPLE FROM HYDRANT ON NORTH SIDE OF HOUSE, WELL IS 8M NNE OF HOUSE;  
 1-78 EDGAR HETTEEN RT. 5 THIEF RIVER FALLS, MN., 56701;  
 3-21 8M OF PLASTIC

602874 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 19.0 WEATHER -RAINY  
 PHASE 2 MAP NM1412 SITE 0223 TIME TAKEN 14/11/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.062 (48 3'43") LONG 96.306 (96 18'21") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ NO, RELEASED 801031 SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 1020 DISSOLVED OXYGEN(PPM) 0.9  
 WATER TEMP(C) + 13.2 VISIBILITY(M) CLEAR PH 7.5 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 230 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 220  
 APPEARANCE CLEAR DISCHARGE(L/M) 45.00  
 PRODUCING HORIZON QPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

## WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	STEEL	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD	20	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSE/STOCK	PUMPING FREQUENCY	FREQUENT
DEPTH TO PROD HORIZON(M)	21	CONFIDENCE OF PRODUCING DEPTH	HIGH	SOURCE OF PRODUCING INFORMATION	GEOLOGICAL INFERENCE		
WELL DEPTH(M)	24	CONFIDENCE OF WELL DEPTH	HIGH	SOURCE OF DEPTH INFORMATION	GEOLOGICAL INFERENCE		

## REMARKS:

1-38 VIKING SE 7.5 MINUTE TOPO, 103193, DON MOSLOFF, THIEF RIVER FALLS, MN., 56701, SAMPLE FROM HYDRANT ON WEST SIDE OF HOUSE,  
WELL IS 12M WEST OF NW CORNER OF HOUSE;  
3-21 8M OF COPPER;

602875	TYPE	WELL WATER	REPLICATE	SAMPLER	DRS	AIR TEMP(C)	+ 23.0	WEATHER	LT WIND-CLEAR
	PHASE 2	MAP NM1412	SITE 0247	TIME TAKEN	15/09/09/78	RELIEF	FLAT	VEGETATION	GRASS-MODERATE
	LOCATION: LAT	48.182 (48 10'55")	LONG	96.705 (96 42'18")	CONTAMINANTS	NONE			
	SURFACE GEOL UNIT	QTL	RESULTS REQ	YES	RELEASED	801031			
						SAMPLE: COLOR	-CL	ODOR	NONE

## GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	912	DISSOLVED OXYGEN(PPM)	10.5
WATER TEMP(C)	+ 11.0	VISIBILITY(M)	CLEAR	PH	8.5 LO-ION PAPER
TOTAL ALKALINITY(PPM)	552	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	556
APPEARANCE	CLEAR	DISCHARGE(L/M)			
PRODUCING HORIZON	OPG	CONFIDENCE	PROBABLE	SOURCE	GEOLOGICAL INFERENCE

## WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ARTESIAN	CASING	STEEL	PIPE COMPOSITION	OTHER
METERS FROM HEAD	0	WITH RESPECT TO PRESSURE TANK	NONE	USE	HOUSE/STOCK	PUMPING FREQUENCY	CONSTANT
DEPTH TO PROD HORIZON(M)	28	CONFIDENCE OF PRODUCING DEPTH	POSSIBLE	SOURCE OF PRODUCING INFORMATION	GEOLOGICAL INFERENCE		
WELL DEPTH(M)	31	CONFIDENCE OF WELL DEPTH	PROBABLE	SOURCE OF DEPTH INFORMATION	OWNER		

## REMARKS:

1-38 ROAN 7.5 MINUTE QUAD, DACIAN BIENEK, WARREN, MN, WELL 50 M SW OF POLE BARN, SAMPLED AT HEAD;  
1-51 KRET JS PRESENT;  
1-78 DACIAN BIENEK & WARREN, MN 56762;  
2-46 IN PROCESS OF BLOWING WELL WITH AIR;  
3-21 NO PIPE;

602876	TYPE	WELL WATER	REPLICATE	SAMPLER	DRS	AIR TEMP(C)	+ 25.0	WEATHER	LT WIND-PT CLDY
	PHASE 2	MAP NM1412	SITE 0248	TIME TAKEN	10/11/09/78	RELIEF	FLAT	VEGETATION	GRASS-MODERATE
	LOCATION: LAT	48.064 (48 3'50")	LONG	97.040 (97 2'24")	CONTAMINANTS	NONE			
	SURFACE GEOL UNIT	QTL	RESULTS REQ	NO	RELEASED	801031			
						SAMPLE: COLOR	-CL	ODOR	NONE

## GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	708	DISSOLVED OXYGEN(PPM)	1.1
WATER TEMP(C)	+ 11.2	VISIBILITY(M)	CLEAR	PH	LO-ION PAPER 7.5
TOTAL ALKALINITY(PPM)	370	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	372
APPEARANCE	CLEAR	DISCHARGE(L/M)			
PRODUCING HORIZON	OPG	CONFIDENCE	PROBABLE	SOURCE	GEOLOGICAL INFERENCE

## WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	HAND	CASING	STEEL	PIPE COMPOSITION	OTHER
METERS FROM HEAD	0	WITH RESPECT TO PRESSURE TANK	NONE	USE	NONE	PUMPING FREQUENCY	RARE
DEPTH TO PROD HORIZON(M)	9	CONFIDENCE OF PRODUCING DEPTH	POSSIBLE	SOURCE OF PRODUCING INFORMATION	GEOLOGICAL INFERENCE		
WELL DEPTH(M)	12	CONFIDENCE OF WELL DEPTH	POSSIBLE	SOURCE OF DEPTH INFORMATION	GEOLOGICAL INFERENCE		

REMARKS:

1-38 OSLO SE 7.5 MINUTE QUAD, SCHOOLHOUSE, ESTHER TOWNSHIP, TABOR, MN, WELL 25M WEST OF SCHOOLHOUSE, SAMPLED AT HEAD;  
 1-51 KRET IS PRESENT;  
 3-21 NO PIPE;

602877 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 23.0 WEATHER LT WIND-RAINY  
 PHASE 2 MAP NM1412 SITE 0249 TIME TAKEN 11/11/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.034( 48 2' 2") LONG 96.995( 96 59' 42") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR H2S

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 1272 DISSOLVED OXYGEN(PPM) 1.3  
 WATER TEMP(C) + 16.2 VISIBILITY(M) CLEAR PH 7.3 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 268 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 276  
 APPEARANCE CLEAR DISCHARGE(L/M)  
 PRODUCING HORIZON QPG CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 15 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON(M) 53 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 55 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 WARREN 15 MINUTE QUAD, VERNON JOHNSON, E. GRAND FORKS, MN, WELL IN PUMPHOUSE, SAMPLED SOUTH SIDE HOUSE;  
 1-51 KRET IS PRESENT;  
 1-78 VERNON JOHNSON & EAST GRAND FORKS, MN 56721;

602878 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 23.0 WEATHER LT WIND-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0250 TIME TAKEN 12/11/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.132( 48 7' 55") LONG 97.004( 97 0' 14") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 1416 DISSOLVED OXYGEN(PPM) 0.8  
 WATER TEMP(C) + 13.5 VISIBILITY(M) CLEAR PH 7.6 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 226 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 228  
 APPEARANCE CLEAR DISCHARGE(L/M)  
 PRODUCING HORIZON QPG CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ARTESIAN CASING STEEL PIPE COMPOSITION OTHER  
 METERS FROM HEAD 0 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY CONSTANT  
 DEPTH TO PROD HORIZON(M) 70 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 73 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 OSLO NE 7.5 MINUTE QUAD, BENNETH MATHESEN, ALVARADO, MN, WELL 30M EAST OF SHED, SAMPLED AT HEAD;  
 1-51 KRET IS PRESENT;  
 1-78 BENNETH MATHESEN & ALVARADO, MN 56710;  
 3-21 NO PIPE;

602879 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 24.0 WEATHER LT WIND-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0258 TIME TAKEN 12/11/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.136( 48 8' 9") LONG 96.904( 96 54' 14") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ YES , RELEASED 801031 SAMPLE: COLOR - -CL - ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 1121 DISSOLVED OXYGEN(PPM) 3.1  
 WATER TEMP(C) + 14.0 VISIBILITY(M) CLEAR PH 7.7 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 234 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 234  
 APPEARANCE CLEAR DISCHARGE(L/M) CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE  
 PRODUCING HORIZON QPG

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ARTESIAN CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 50 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY CONSTANT  
 DEPTH TO PROD HORIZON(M) 25 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 28 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION OWNER

## REMARKS:

1-38 WARREN 15 MINUTE QUAD, CLARENCE DVORAK, WARREN, MN, WELL SOUTH OF GARAGE, SAMPLED SW CORNER OF HOSE;  
 1-51 KRET IS PRESENT;  
 1-78 CLARENCE DVORAK RT 2 BOX 26 WARREN, MN, 56762;

602880 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 24.0 WEATHER -RAINY  
 PHASE 2 MAP NM1412 SITE 0259 TIME TAKEN 13/11/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.141( 48 8' 27") LONG 96.856( 96 51' 21") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ YES , RELEASED 801031 SAMPLE: COLOR - -CL - ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 1531 DISSOLVED OXYGEN(PPM) 4.2  
 WATER TEMP(C) + 15.5 VISIBILITY(M) CLEAR PH 7.4 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 204 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 200  
 APPEARANCE CLEAR DISCHARGE(L/M) CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE  
 PRODUCING HORIZON QPG

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 400 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY CONSTANT  
 DEPTH TO PROD HORIZON(M) 34 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 36 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION OWNER

## REMARKS:

1-38 WARREN 15 MINUTE QUAD, ERNIE SLUSAR, WARREN, MN, WELL 400M NE OF HOUSE, SAMPLED YARD HYDRANT;  
 1-51 KRET IS PRESENT;  
 1-78 ERNIE SLUSAR RT 2 WARREN, MN 56762;

602881 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 23.0 WEATHER LT WIND-RAINY  
 PHASE 2 MAP NM1412 SITE 0260 TIME TAKEN 14/11/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.065( 48 3' 54") LONG 96.836( 96 50' 9") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ YES , RELEASED 801031 SAMPLE: COLOR - -CL - ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 851 DISSOLVED OXYGEN(PPM) 3.8

WATER TEMP(C) + 16.0 VISIBILITY(M) CLEAR PH 7.9 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 258 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 258  
 APPEARANCE CLEAR DISCHARGE(L/M)  
 PRODUCING HORIZON OPG CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION COPPER  
 METERS FROM HEAD 2 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY CONSTANT  
 DEPTH TO PROD HORIZON(M) 22 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 24 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION OWNER

## REMARKS:

1-38 WARREN 15 MINUTE QUAD, RICHARD KUZEL, ANGUS, MN, WELL IN BARN, SAMPLED IN BARN;  
 1-51 KRET IS PRESENT;  
 1-78 RICHARD KUZEL & ANGUS, MN 56712;

602882 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 22.0 WEATHER -RAINY  
 PHASE 2 MAP NM1412 SITE 0261 TIME TAKEN 14/11/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.080 (48 4'48") LONG 96.933 (96 55'58") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031 SAMPLE COLOR -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 1449 DISSOLVED OXYGEN(PPM) 1.9  
 WATER TEMP(C) + 10.4 VISIBILITY(M) CLEAR PH 7.7 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 200 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 200  
 APPEARANCE CLEAR DISCHARGE(L/M)  
 PRODUCING HORIZON OPG CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ARTESIAN CASING STEEL PIPE COMPOSITION OTHER  
 METERS FROM HEAD 0 WITH RESPECT TO PRESSURE TANK NONE USE HOUSEHOLD PUMPING FREQUENCY CONSTANT  
 DEPTH TO PROD HORIZON(M) 55 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 57 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION OWNER

## REMARKS:

1-38 WARREN 15 MINUTE QUAD, EDMUND HUDERLE, EAST GRAND FORKS, MN, WELL 20M SE OF TOOL SHOP, SAMPLED AT HEAD;  
 1-51 KRET IS PRESENT;  
 1-78 EDMUND HUDERLE & EAST GRAND FORKS, MN 56721;  
 3-21 NO PIPE;

602883 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 23.0 WEATHER -RAINY  
 PHASE 2 MAP NM1412 SITE 0262 TIME TAKEN 15/11/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.030 (48 1'48") LONG 96.933 (96 55'58") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031 SAMPLE COLOR -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 1243 DISSOLVED OXYGEN(PPM) 3.3  
 WATER TEMP(C) + 14.2 VISIBILITY(M) CLEAR PH 8.1 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 230 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 232  
 APPEARANCE CLEAR DISCHARGE(L/M)  
 PRODUCING HORIZON OPG CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

## WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ARTESIAN	CASING	STEEL	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD	1	WITH RESPECT TO PRESSURE TANK	NONE	USE	HOUSEHOLD	PUMPING FREQUENCY	CONSTANT
DEPTH TO PROD HORIZON(M)	53	CONFIDENCE OF PRODUCING DEPTH	POSSIBLE	SOURCE OF PRODUCING INFORMATION	GEOLOGICAL INFERENCE		
WELL DEPTH(M)	55	CONFIDENCE OF WELL DEPTH	POSSIBLE	SOURCE OF DEPTH INFORMATION	GEOLOGICAL INFERENCE		

## REMARKS:

1-38 WARREN 15 MINUTE QUAD, DANIEL GUST, EAST GRAND FORKS, MN, WELL IN PUMPHOUSE, SAMPLED CISTERN;  
 1-51 KRET IS PRESENT;  
 1-78 DANIEL GUST RT 2 EAST GRAND FORKS, MN 56721;

602884	TYPE	WELL WATER	REPLICATE	SAMPLER DRS	AIR TEMP(C)	+ 23.0	WEATHER	-RAINY		
	PHASE 2	MAP NM1412	SITE 0263	TIME TAKEN	15/11/09/78	RELIEF	FLAT	VEGETATION	GRASS-MODERATE	
	LOCATION: LAT	48.022( 48 1'19")	LONG	96.845( 96 50'42")	CONTAMINANTS	NONE				
	SURFACE GEOL UNIT	QTL	RESULTS REQ	YES	RELEASED	801031	SAMPLE: COLOR	-CL	ODOR	NONE

## GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	1224	DISSOLVED OXYGEN(PPM)	2.2
WATER TEMP(C)	+ 13.6	VISIBILITY(M)	CLEAR	PH	7.6 LO-ION PAPER
TOTAL ALKALINITY(PPM)	200	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	198
APPEARANCE	CLEAR	DISCHARGE(L/M)		CONFIDENCE	PROBABLE
PRODUCING HORIZON	QPG	CONFIDENCE	PROBABLE	SOURCE	GEOLOGICAL INFERENCE

## WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	STEEL	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD	3	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSEHOLD	PUMPING FREQUENCY	CONSTANT
DEPTH TO PROD HORIZON(M)	43	CONFIDENCE OF PRODUCING DEPTH	POSSIBLE	SOURCE OF PRODUCING INFORMATION	GEOLOGICAL INFERENCE		
WELL DEPTH(M)	46	CONFIDENCE OF WELL DEPTH	POSSIBLE	SOURCE OF DEPTH INFORMATION	OWNER		

## REMARKS:

1-38 WARREN 15 MINUTE QUAD, CHARLES BUTZ, EAST GRAND FORKS, MN, WELL 5M WEST OF BARN, SAMPLED FAUCET ABOVE PIT;  
 1-51 KRET IS PRESENT;  
 1-78 CHARLES BUTZ RT 3 EAST GRAND FORKS, MN, 56721;

602885	TYPE	WELL WATER	REPLICATE	SAMPLER DRS	AIR TEMP(C)	+ 23.0	WEATHER	-OVERCAST		
	PHASE 2	MAP NM1412	SITE 0264	TIME TAKEN	15/11/09/78	RELIEF	FLAT	VEGETATION	GRASS-MODERATE	
	LOCATION: LAT	48.029( 48 1'44")	LONG	96.804( 96 48'14")	CONTAMINANTS	NONE				
	SURFACE GEOL UNIT	QTL	RESULTS REQ	YES	RELEASED	801031	SAMPLE: COLOR	-CL	ODOR	NONE

## GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	842	DISSOLVED OXYGEN(PPM)	1.9
WATER TEMP(C)	+ 19.9	VISIBILITY(M)	CLEAR	PH	7.8 LO-ION PAPER
TOTAL ALKALINITY(PPM)	236	P ALKALINITY(PPM)	35	M ALKALINITY(PPM)	236
APPEARANCE	CLEAR	DISCHARGE(L/M)		CONFIDENCE	PROBABLE
PRODUCING HORIZON	QPG	CONFIDENCE	PROBABLE	SOURCE	GEOLOGICAL INFERENCE

## WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	STEEL	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD	100	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSEHOLD	PUMPING FREQUENCY	CONSTANT
DEPTH TO PROD HORIZON(M)	18	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	GEOLOGICAL INFERENCE		
WELL DEPTH(M)	20	CONFIDENCE OF WELL DEPTH	HIGH	SOURCE OF DEPTH INFORMATION	OWNER		

## REMARKS:

1-38 WARREN 15 MINUTE QUAD, EMIL VONASEK, EUCLID, MN, WELL 100M NE OF HOUSE, SAMPLED KITCHEN;

1-51 KRET IS PRESENT;  
1-78 EMIL VONASEK & EUCLID, MN 56722;

602886 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 23.0 WEATHER -OVERCAST  
PHASE 2 MAP NM1412 SITE 0265 TIME TAKEN 16/11/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
LOCATION: LAT 48.065( 48 3'54") LONG 96.794( 96 47'38") CONTAMINANTS NONE  
SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 1278 DISSOLVED OXYGEN(PPM) 2.2  
WATER TEMP(C) + 15.2 VISIBILITY(M) CLEAR PH 7.9 LO-ION PAPER  
TOTAL ALKALINITY(PPM) 200 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 205  
APPEARANCE CLEAR DISCHARGE(L/M) CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE  
PRODUCING HORIZON QPG

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
METERS FROM HEAD WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY CONSTANT  
DEPTH TO PROD HORIZON(M) 58 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
WELL DEPTH(M) 61 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 WARREN 15 MINUTE QUAD, WILBUR NOVACEK, ANGUS, MN, WELL IN PUMPHOUSE, SAMPLED NORTH SIDE OF HOUSE;  
1-51 KRET IS PRESENT;  
1-78 WILBUR NOVACEK & ANGUS, MN 56712;

602887 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 19.4 WEATHER LT WIND-RAINY  
PHASE 2 MAP NM1412 SITE 0224 TIME TAKEN 15/11/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
LOCATION: LAT 48.020( 48 1'12") LONG 96.276( 96 16'33") CONTAMINANTS NONE  
SURFACE GEOL UNIT QPG RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 725 DISSOLVED OXYGEN(PPM) 0.7  
WATER TEMP(C) + 8.2 VISIBILITY(M) CLEAR PH 7.5 LO-ION PAPER  
TOTAL ALKALINITY(PPM) 340 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 340  
APPEARANCE CLEAR DISCHARGE(L/M) 189.00 CONFIDENCE HIGH SOURCE GEOL. INFERENCE  
PRODUCING HORIZON QPG

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION GALVANIZED  
METERS FROM HEAD WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT  
DEPTH TO PROD HORIZON(M) 52 CONFIDENCE OF PRODUCING DEPTH HIGH SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
WELL DEPTH(M) 53 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

REMARKS:

1-38 VIKING SE 7.5 MINUTE TOPO, 107944, LYLE JENNINGS, RT. 5, THIEF RIVER FALLS, MN., 56701, SAMPLE FROM HYDRANT ON WELL, WELL  
IS 22M WEST OF HOUSE;  
1-51 KRET IS PRESENT;  
1-78 LYLE JENNINGS & RT. 5 & THIEF RIVER FALLS, MN., 56701;

602888 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 19.9 WEATHER LT WIND-RAINY



PHASE 2 MAP NM1412 SITE 0225 TIME TAKEN 16/11/09/78  
 LOCATION: LAT 48.018 (48 1' 4") LONG 96.360 (96 21' 36")  
 SURFACE GEOL UNIT QPG RESULTS REQ YES, RELEASED 801031

RELIEF FLAT VEGETATION GRASS-MODERATE  
 CONTAMINANTS NONE

SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 715 DISSOLVED OXYGEN (PPM) 0.2  
 WATER TEMP (C) + 16.0 VISIBILITY (M) CLEAR PH LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 305 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 300  
 APPEARANCE CLEAR DISCHARGE (L/M)  
 PRODUCING HORIZON QPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION GALVANIZED  
 METERS FROM HEAD 46 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON (M) 75 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH (M) 75 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

## REMARKS:

1-38 WIKING SE 7.5 MINUTE TOPO, WILLIAM KRUSE, RT. 5, THIEF RIVER FALLS, MN., 56701, SAMPLE FROM KITCHEN FAUCET, WELL IS 39M SE  
 OF HOUSE;  
 1-51 KRET IS PRESENT;  
 1-78 WILLIAM KRUSE RT. 5 & THIEF RIVER FALLS, MN., 56701  
 3-21 7M OF COPPER;

602889 TYPE WELL WATER REPLICATE SAMPLER GJG  
 PHASE 2 MAP NM1412 SITE 0251 TIME TAKEN 17/11/09/78  
 LOCATION: LAT 48.059 (48 3' 32") LONG 96.350 (96 21' 0")  
 SURFACE GEOL UNIT QTL RESULTS REQ NO, RELEASED 801031

AIR TEMP (C) + 20.1 WEATHER -RAINY  
 RELIEF FLAT VEGETATION GRASS-MODERATE  
 CONTAMINANTS NONE

SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 715 DISSOLVED OXYGEN (PPM) 1.2  
 WATER TEMP (C) + 8.2 VISIBILITY (M) CLEAR PH 7.7 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 300 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 300  
 APPEARANCE CLEAR DISCHARGE (L/M) 379.00  
 PRODUCING HORIZON QPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 8 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON (M) 57 CONFIDENCE OF PRODUCING DEPTH HIGH SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH (M) 60 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

## REMARKS:

1-38 WIKING SE 7.5 MINUTE TOPO, JOE BOB, LOUIS HUGG, RT. 5, THIEF RIVER FALLS, MN., 56701, SAMPLE FROM HYDRANT ON NORTH SIDE OF  
 HOUSE, WELL IS 4M EAST OF HOUSE;  
 1-51 KRET IS PRESENT;  
 3-21 4M OF COPPER;

602890 TYPE WELL WATER REPLICATE SAMPLER GJG  
 PHASE 2 MAP NM1412 SITE 0252 TIME TAKEN 18/11/09/78  
 LOCATION: LAT 48.107 (48 6' 25") LONG 96.368 (96 22' 4")  
 SURFACE GEOL UNIT QPG RESULTS REQ YES, RELEASED 801031

AIR TEMP (C) + 20.1 WEATHER -RAINY  
 RELIEF FLAT VEGETATION GRASS-MODERATE  
 CONTAMINANTS NONE

SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE  
 WATER TEMP(C) + 10.0 CONDUCTIVITY(MICROMHOS/CM) 1200 DISSOLVED OXYGEN(PPM) 1.3  
 VISIBILITY(M) CLEAR PH 7.5 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 245 P. ALKALINITY(PPM) <5 M. ALKALINITY(PPM) 240  
 APPEARANCE CLEAR DISCHARGE(L/M)  
 PRODUCING HORIZON OPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 0 WITH RESPECT TO PRESSURE TANK BEFORE USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON(M) 58 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH(M) 58 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 WIKING SE 7.5 MINUTE TOPO, CHARLES ELLINGSON, RT. 5, THIEF RIVER FALLS, MN., 56701, SAMPLE FROM HYDRANT ON WELL, WELL IS 13M SE OF HOUSE;  
 1-78 CHARLES ELLINGSON & RT. 5 & THIEF RIVER FALLS, MN., 56701;

602891 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 20.3 WEATHER -OVERCAST  
 PHASE 2 MAP NM1412 SITE 0253 TIME TAKEN 18/11/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.125( 48 7'30") LONG 96.441( 96 26'27") CONTAMINANTS NONE SAMPLE COLOR -CL ODOR NONE  
 SURFACE GEOL UNIT OPG RESULTS REQ YES, RELEASED 801031

GENERAL WATER INFORMATION:

TREATMENT NONE  
 WATER TEMP(C) + 12.4 CONDUCTIVITY(MICROMHOS/CM) 910 DISSOLVED OXYGEN(PPM) 0.3  
 VISIBILITY(M) CLEAR PH 7.2 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 245 P. ALKALINITY(PPM) <5 M. ALKALINITY(PPM) 250  
 APPEARANCE CLEAR DISCHARGE(L/M)  
 PRODUCING HORIZON OPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 67 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON(M) 14 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH(M) 14 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 WIKING SW 7.5 MINUTE TOPO, FRANK HUBLE, RT. 1, THIEF RIVER FALLS, MN., 56701, SAMPLE FROM FAUCET IN POLE BARN NE OF WELL, WELL IS 13M NE OF HOUSE;  
 1-78 FRANK HUBLE & RT. 1 & THIEF RIVER FALLS, MN., 56701;

602892 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 20.2 WEATHER WINDY-RAINY  
 PHASE 2 MAP NM1412 SITE 0254 TIME TAKEN 19/11/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.124( 48 7'26") LONG 96.506( 96 30'21") CONTAMINANTS NONE SAMPLE COLOR -CL ODOR NONE  
 SURFACE GEOL UNIT OPG RESULTS REQ NO, RELEASED 801031

GENERAL WATER INFORMATION:

TREATMENT NONE  
 WATER TEMP(C) + 14.1 CONDUCTIVITY(MICROMHOS/CM) 890 DISSOLVED OXYGEN(PPM) 2.5  
 VISIBILITY(M) CLEAR PH 8.0 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 200 P. ALKALINITY(PPM) <5 M. ALKALINITY(PPM) 200  
 APPEARANCE CLEAR DISCHARGE(L/M)  
 PRODUCING HORIZON OPG CONFIDENCE HIGH SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE	DUG	POWER CLASSIFICATION	HAND	CASING OTHER	PIPE COMPOSITION	GALVANIZED
METERS FROM HEAD	0	WITH RESPECT TO PRESSURE TANK	NONE	USE HOUSE/STOCK	PUMPING FREQUENCY	INFREQUENT
DEPTH TO PROD HORIZON(M)	9	CONFIDENCE OF PRODUCING DEPTH	POSSIBLE	SOURCE OF PRODUCING INFORMATION	OWNER	
WELL DEPTH(M)	9	CONFIDENCE OF WELL DEPTH	POSSIBLE	SOURCE OF DEPTH INFORMATION	OWNER	

REMARKS:

1-38 ANGUS SE 7.5 MINUTE TOPO, R. WINFRED NELSON, RT. 1, THIEF RIVER FALLS, MN., 56701, SAMPLE FROM PUMP ON WELL, WELL IS 5M NORTH OF NE CORNER OF BARN;  
3-20 CEMENT CASING;

602893	TYPE WELL WATER	REPLICATE	SAMPLER GJG	AIR TEMP(C) + 20.1	WEATHER -RAINY
	PHASE 2 MAP NM1412	SITE 0255	TIME TAKEN 19/11/09/78	RELIEF FLAT	VEGETATION GRASS-MODERATE
	LOCATION: LAT 48.166( 48 9'57")	LONG 96.493( 96 29'34")		CONTAMINANTS NONE	
	SURFACE GEOL UNIT QTL	RESULTS REQ NO	RELEASED 801031		SAMPLE: COLOR - -CL - ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	1200	DISSOLVED OXYGEN(PPM)	0.9
WATER TEMP(C)	+ 16.9	VISIBILITY(M)	CLEAR	PH 7.0	LO-ION PAPER
TOTAL ALKALINITY(PPM)	300	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	300
APPEARANCE	CLEAR	DISCHARGE(L/M)			
PRODUCING HORIZON	OPG	CONFIDENCE	HIGH	SOURCE	GEOL. INFERENCE

WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING STEEL	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD	38	WITH RESPECT TO PRESSURE TANK	AFTER	USE HOUSE/STOCK	PUMPING FREQUENCY	FREQUENT
DEPTH TO PROD HORIZON(M)	6	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	OWNER	
WELL DEPTH(M)	6	CONFIDENCE OF WELL DEPTH	PROBABLE	SOURCE OF DEPTH INFORMATION	OWNER	

REMARKS:

1-38 VIKING 7.5 MINUTE TOPO, LEONARD MARYNIK, RT. 1, THIEF RIVER FALLS, MN., 56701, SAMPLE FROM KITCHEN FAUCET, WELL 33M SE OF HOUSE;  
3-21 5M OF COPPER;

602894	TYPE WELL WATER	REPLICATE	SAMPLER GJG	AIR TEMP(C) + 19.9	WEATHER U WINDY-RAINY
	PHASE 2 MAP NM1412	SITE 0256	TIME TAKEN 20/11/09/78	RELIEF FLAT	VEGETATION GRASS-MODERATE
	LOCATION: LAT 48.163( 48 9'46")	LONG 96.435( 96 26' 6")		CONTAMINANTS NONE	
	SURFACE GEOL UNIT QTL	RESULTS REQ NO	RELEASED 801031		SAMPLE: COLOR - -CL - ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	870	DISSOLVED OXYGEN(PPM)	3.1
WATER TEMP(C)	+ 9.1	VISIBILITY(M)	CLEAR	PH 7.7	LO-ION PAPER
TOTAL ALKALINITY(PPM)	230	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	230
APPEARANCE	CLEAR	DISCHARGE(L/M)			
PRODUCING HORIZON	OPG	CONFIDENCE	HIGH	SOURCE	GEOL. INFERENCE

WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING STEEL	PIPE COMPOSITION	STEEL
METERS FROM HEAD	0	WITH RESPECT TO PRESSURE TANK	NONE	USE HOUSE/STOCK	PUMPING FREQUENCY	FREQUENT
DEPTH TO PROD HORIZON(M)	30	CONFIDENCE OF PRODUCING DEPTH	POSSIBLE	SOURCE OF PRODUCING INFORMATION	OWNER	
WELL DEPTH(M)	30	CONFIDENCE OF WELL DEPTH	POSSIBLE	SOURCE OF DEPTH INFORMATION	OWNER	

REMARKS:

1-38 VIKING 7.5 MINUTE TOPO, LLOYD NELSON, RT. 1, THIEF RIVER FALLS, MN., 56701, SAMPLE FROM PUMP ON WELL, WELL IS 9M WEST OF NW CORNER OF BARN;

602895 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 19.4 WEATHER U WINDY-RAINY  
 PHASE 2 MAP NM1412 SITE 0257 TIME TAKEN 20/11/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.162( 48 9'43") LONG 96.362( 96 21'43") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 800 DISSOLVED OXYGEN(PPM) 3.1  
 WATER TEMP(C) + 14.7 VISIBILITY(M) CLEAR PH 7.7 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 250 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 248  
 APPEARANCE CLEAR DISCHARGE(L/M) CONFIDENCE HIGH SOURCE GEOL. INFERENCE  
 PRODUCING HORIZON QPG

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION STEEL  
 METERS FROM HEAD 0 WITH RESPECT TO PRESSURE TANK NONE USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON(M) 6 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH(M) 6 CONFIDENCE OF WELL DEPTH POSSIBLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 ROSEWOOD 7.5 MINUTE TOPO, HENRY ORDHAL, RT. 1, THIEF RIVER FALLS, MN., 56701, SAMPLE FROM PUMP ON WELL, WELL IS 19M NW OF HOUSE;  
 1-78 HENRY ORDHAL & RT. 1 & THIEF RIVER FALLS, MN., 56701;

602896 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 14.4 WEATHER U WINDY-RAINY  
 PHASE 2 MAP NM1412 SITE 0276 TIME TAKEN 09/12/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.085( 48 5' 6") LONG 96.444( 96 26'38") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ NO, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 1120 DISSOLVED OXYGEN(PPM) 2.0  
 WATER TEMP(C) + 13.4 VISIBILITY(M) CLEAR PH 7.1 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 200 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 200  
 APPEARANCE CLEAR DISCHARGE(L/M) CONFIDENCE HIGH SOURCE GEOL. INFERENCE  
 PRODUCING HORIZON QPG

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION COPPER  
 METERS FROM HEAD 20 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON(M) 30 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH(M) 30 CONFIDENCE OF WELL DEPTH POSSIBLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 VIKING SH 7.5 MINUTE TOPO, W. D. HERMBECK, RT. 1, THIEF RIVER FALLS, MN., 56701, SAMPLE FROM HYDRANT ON SOUTH SIDE OF HOUSE, WELL IS UNDER HOUSE;

602897 TYPE WELL WATER REPLICATE SAMPLER GJG AIR TEMP(C) + 14.6 WEATHER U WINDY-RAINY  
 PHASE 2 MAP NM1412 SITE 0277 TIME TAKEN 10/12/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.036( 48 2' 9") LONG 96.441( 96 26'27") CONTAMINANTS NONE

SURFACE GEOL UNIT QPG RESULTS REQ NO ,RELEASED 801031

SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE	CONDUCTIVITY(MICROMHOS/CM)	710	DISSOLVED OXYGEN(PPM)	0.7
WATER TEMP(C) + 14.9	VISIBILITY(M)	CLEAR	PH 7.1 LO-ION PAPER	
TOTAL ALKALINITY(PPM) 230	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	230
APPEARANCE CLEAR	DISCHARGE(L/M)			
PRODUCING HORIZON QPG	CONFIDENCE HIGH		SOURCE GEOL. INFERENCE	

WELL INFORMATION:

TYPE DUG	POWER CLASSIFICATION ELECTRIC	CASING OTHER	PIPE COMPOSITION COPPER
METERS FROM HEAD 15	WITH RESPECT TO PRESSURE TANK AFTER	USE HOUSEHOLD	PUMPING FREQUENCY FREQUENT
DEPTH TO PROD HORIZON(M) 6	CONFIDENCE OF PRODUCING DEPTH PROBABLE	SOURCE OF PRODUCING INFORMATION OWNER	
WELL DEPTH(M) 6	CONFIDENCE OF WELL DEPTH PROBABLE	SOURCE OF DEPTH INFORMATION OWNER	

REMARKS:

1-38 VIKING SW 7.5 MINUTE TOPO, PERSON'S FARM, RT. 5, THIEF RIVER FALLS, MN., 56701, SAMPLE FROM KITCHEN FAUCET, WELL IS 6M NORTH OF HOUSE;  
 1-51 KRET IS PRESENT;  
 3-20 CEMENT CASING;  
 3-21 6M OF PLASTIC;

602898 TYPE WELL WATER REPLICATE SAMPLER GJG  
 PHASE 2 MAP NM1412 SITE 0278 TIME TAKEN 11/12/09/78  
 LOCATION: LAT 48.021( 48 1'15") LONG 96.521( 96 31'15")  
 SURFACE GEOL UNIT QPG RESULTS REQ YES ,RELEASED 801031

AIR TEMP(C) + 15.0 WEATHER U WINDY-RAINY  
 RELIEF FLAT VEGETATION GRASS-MODERATE  
 CONTAMINANTS NONE  
 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE	CONDUCTIVITY(MICROMHOS/CM)	750	DISSOLVED OXYGEN(PPM)	0.5
WATER TEMP(C) + 8.7	VISIBILITY(M)	CLEAR	PH 7.7 LO-ION PAPER	
TOTAL ALKALINITY(PPM) 205	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	215
APPEARANCE CLEAR	DISCHARGE(L/M)			
PRODUCING HORIZON QPG	CONFIDENCE HIGH		SOURCE GEOL. INFERENCE	

WELL INFORMATION:

TYPE DRILLED	POWER CLASSIFICATION ELECTRIC	CASING STEEL	PIPE COMPOSITION COPPER
METERS FROM HEAD 20	WITH RESPECT TO PRESSURE TANK AFTER	USE HOUSE/STOCK	PUMPING FREQUENCY FREQUENT
DEPTH TO PROD HORIZON(M) 61	CONFIDENCE OF PRODUCING DEPTH PROBABLE	SOURCE OF PRODUCING INFORMATION OWNER	
WELL DEPTH(M) 61	CONFIDENCE OF WELL DEPTH PROBABLE	SOURCE OF DEPTH INFORMATION OWNER	

REMARKS:

1-38 ANGUS SE 7.5 MINUTE TOPO, DENNIS GARRY, RT. 1, EUCLID, MN., 56722, SAMPLE FROM HYDRANT ON WEST SIDE OF HOUSE, WELL IS NW OF HOUSE 6M;  
 1-51 KRET IS PRESENT;  
 1-78 DENNIS GARRY RT. 1 EUCLID, MN., 56722;  
 3-21 6M OF PLASTIC;

602899 TYPE WELL WATER REPLICATE SAMPLER GJG  
 PHASE 2 MAP NM1412 SITE 0275 TIME TAKEN 12/12/09/78  
 LOCATION: LAT 48.070( 48 4'12") LONG 96.526( 96 31'33")  
 SURFACE GEOL UNIT QPG RESULTS REQ YES ,RELEASED 801031

AIR TEMP(C) + 15.0 WEATHER U WINDY-RAINY  
 RELIEF FLAT VEGETATION GRASS-MODERATE  
 CONTAMINANTS NONE  
 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE  
 WATER TEMP(C) + 12.9  
 TOTAL ALKALINITY (PPM) 180  
 APPEARANCE CLEAR  
 PRODUCING HORIZON OPG

CONDUCTIVITY (MICROMHOS/CM) 720  
 VISIBILITY (M) CLEAR  
 P ALKALINITY (PPM) <5  
 DISCHARGE (L/M) HIGH  
 CONFIDENCE HIGH

DISSOLVED OXYGEN (PPM) 0.2  
 PH 7.9 LO-ION PAPER  
 M ALKALINITY (PPM) 180

SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED  
 METERS FROM HEAD 12  
 DEPTH TO PROD HORIZON (M) 41  
 WELL DEPTH (M) 41

POWER CLASSIFICATION ELECTRIC  
 WITH RESPECT TO PRESSURE TANK AFTER  
 CONFIDENCE OF PRODUCING DEPTH PROBABLE  
 CONFIDENCE OF WELL DEPTH PROBABLE

CASING STEEL  
 USE HOUSE/STOCK  
 SOURCE OF PRODUCING INFORMATION OWNER  
 SOURCE OF DEPTH INFORMATION OWNER

PIPE COMPOSITION PLASTIC  
 PUMPING FREQUENCY FREQUENT

REMARKS:

1-38 ANGUS SE 7.5 MINUTE TOPO, MILO VILVEN, RT. 1, EUCLID, MN., 56722, SAMPLE FROM KITCHEN FAUCET, WELL IS 5M SOUTH OF HOUSE;  
 1-51 KRET IS PRESENT;  
 1-78 MILO VILVEN & RT. 1 & EUCLID, MN., 56722;

602900 TYPE WELL WATER REPLICATE SAMPLER DRS  
 PHASE 2 MAP NM1412 SITE 0266 TIME TAKEN 16/11/09/78  
 LOCATION: LAT 48.120 (48 7'12") LONG 96.729 (96 43'44")  
 SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031

AIR TEMP (C) + 21.0 WEATHER -RAINY  
 RELIEF FLAT VEGETATION GRASS-MODERATE  
 CONTAMINANTS NONE

SAMPLE: COLOR M-OR-RD ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE  
 WATER TEMP (C) + 12.3  
 TOTAL ALKALINITY (PPM) 150  
 APPEARANCE MURKY  
 PRODUCING HORIZON OPG

CONDUCTIVITY (MICROMHOS/CM) 1206  
 VISIBILITY (M) CLEAR  
 P ALKALINITY (PPM) <5  
 DISCHARGE (L/M) PROBABLE  
 CONFIDENCE PROBABLE

DISSOLVED OXYGEN (PPM) 3.2  
 PH 8.0 LO-ION PAPER  
 M ALKALINITY (PPM) 150

SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED  
 METERS FROM HEAD 2  
 DEPTH TO PROD HORIZON (M) 18  
 WELL DEPTH (M) 20

POWER CLASSIFICATION ELECTRIC  
 WITH RESPECT TO PRESSURE TANK AFTER  
 CONFIDENCE OF PRODUCING DEPTH POSSIBLE  
 CONFIDENCE OF WELL DEPTH HIGH

CASING STEEL  
 USE STOCK  
 SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 SOURCE OF DEPTH INFORMATION OWNER

PIPE COMPOSITION GALVANIZED  
 PUMPING FREQUENCY FREQUENT

REMARKS:

1-38 ANUS 7.5 MINUTE QJAD, CHARLES D. PETERSON, WARREN, MN, WELL 10M SOUTH OF BARN, SAMPLED PIT HYDRANT;  
 1-51 KRET IS PRESENT;  
 1-78 CHARLES D. PETERSON & RR 3 BOX 85 & WARREN MN 56762;

602901 TYPE WELL WATER REPLICATE SAMPLER DRS  
 PHASE 2 MAP NM1412 SITE 0267 TIME TAKEN 17/11/09/78  
 LOCATION: LAT 48.056 (48 3'21") LONG 96.715 (96 42'54")  
 SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031

AIR TEMP (C) + 21.0 WEATHER -RAINY  
 RELIEF FLAT VEGETATION GRASS-MODERATE  
 CONTAMINANTS NONE

SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE  
 WATER TEMP (C) + 9.4  
 TOTAL ALKALINITY (PPM) 186  
 APPEARANCE CLEAR  
 PRODUCING HORIZON OPG

CONDUCTIVITY (MICROMHOS/CM) 900  
 VISIBILITY (M) CLEAR  
 P ALKALINITY (PPM) <5  
 DISCHARGE (L/M) PROBABLE  
 CONFIDENCE PROBABLE

DISSOLVED OXYGEN (PPM) 1.1  
 PH 8.1 LO-ION PAPER  
 M ALKALINITY (PPM) 188

SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	STEEL	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD	5	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSEHOLD	PUMPING FREQUENCY	CONSTANT
DEPTH TO PROD HORIZON(M)	59	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	GEOL. INFERENCE		
WELL DEPTH(M)	60	CONFIDENCE OF WELL DEPTH	HIGH	SOURCE OF DEPTH INFORMATION	OWNER		

## REMARKS:

1-38 ANGUS 7.5 MINUTE QUAD, 215376, GENE JOHNSTON, ANGUS, MN, WELL 10M NE OF OLD HOUSE, SAMPLED HYDRANT 5M SOUTH OF HEAD;  
1-78 GENE JOHNSTON & ANGUS, MN 56712;

602902	TYPE WELL WATER	REPLICATE	SAMPLER DRS	AIR TEMP(C)	+ 21.0	WEATHER	-RAINY
	PHASE 2	MAP NM1412	SITE 0268	TIME TAKEN	10/11/09/78	RELIEF	FLAT
	LOCATION: LAT	48.035( 48 2' 6")	LONG	96.687( 96 41' 13")	CONTAMINANTS	NONE	
	SURFACE GEOL UNIT	QTL	RESULTS REQ	YES	RELEASED	801031	
					SAMPLE: COLOR	-	-CL
							ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHQS/CM)	1444	DISSOLVED OXYGEN(PPM)	L.2
WATER TEMP(C)	+ 17.5	VISIBILITY(M)	CLEAR	PH	7.5
TOTAL ALKALINITY(PPM)	116	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	116
APPEARANCE	CLEAR	DISCHARGE(L/M)			
PRODUCING HORIZON	QPG	CONFIDENCE	PROBABLE	SOURCE	GEOL. INFERENCE

## WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	STEEL	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD	35	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSEHOLD	PUMPING FREQUENCY	CONSTANT
DEPTH TO PROD HORIZON(M)	90	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	GEOL. INFERENCE		
WELL DEPTH(M)	92	CONFIDENCE OF WELL DEPTH	PROBABLE	SOURCE OF DEPTH INFORMATION	OWNER		

## REMARKS:

1-38 ANGUS 7.5 MINUTE QUAD, LLOYD KASPRICK, ANGUS, MN, WELL IN PUMPHOUSE, SAMPLED FAUCET ON WEST END OF POLE BARN;  
1-78 LLOYD KASPRICK & ANGUS, MN 56712;

602903	TYPE WELL WATER	REPLICATE	SAMPLER DRS	AIR TEMP(C)	+ 14.0	WEATHER	-RAINY
	PHASE 2	MAP NM1412	SITE 0269	TIME TAKEN	09/12/09/78	RELIEF	FLAT
	LOCATION: LAT	48.170( 48 10' 12")	LONG	96.657( 96 39' 25")	CONTAMINANTS	NONE	
	SURFACE GEOL UNIT	QTL	RESULTS REQ	YES	RELEASED	801031	
					SAMPLE: COLOR	-	-CL
							ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHQS/CM)	682	DISSOLVED OXYGEN(PPM)	2.6
WATER TEMP(C)	+ 13.3	VISIBILITY(M)	CLEAR	PH	7.7
TOTAL ALKALINITY(PPM)	206	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	200
APPEARANCE	CLEAR	DISCHARGE(L/M)			
PRODUCING HORIZON	QPG	CONFIDENCE	PROBABLE	SOURCE	GEOL. INFERENCE

## WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	STEEL	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD	45	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSE/STOCK	PUMPING FREQUENCY	CONSTANT
DEPTH TO PROD HORIZON(M)	67	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	GEOL. INFERENCE		
WELL DEPTH(M)	69	CONFIDENCE OF WELL DEPTH	HIGH	SOURCE OF DEPTH INFORMATION	OWNER		

## REMARKS:

1-38 ROAN 7.5 MINUTE QUAD, WILLIS JADEKE, WARREN, MN, WELL IN PUMPHOUSE, SAMPLED HYDRANT 15M WEST OF HOUSE;  
1-51 KRET IS PRESENT;  
1-78 WILLIS JADEKE & RT 2 & WARREN, MN 56762;

602904 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 14.0 WEATHER -RAINY  
 PHASE 2 MAP NM1412 SITE 0270 TIME TAKEN 10/12/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.180( 48 10'48") LONG 96.608( 96 36'28") CONTAMINANTS NONE  
 SURFACE GEOL UNIT OPG RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 732 DISSOLVED OXYGEN(PPM) 3.2  
 WATER TEMP(C) + 14.3 VISIBILITY(M) CLEAR PH 7.6 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 252 P ALKALINITY(PPM) 45 M ALKALINITY(PPM) 260  
 APPEARANCE CLEAR DISCHARGE(L/M) CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE  
 PRODUCING HORIZON OPG

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 25 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY CONSTANT  
 DEPTH TO PROD HORIZON(M) 89 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 92 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

## REMARKS:

1-38 RADIUM 7.5 MINUTE QUAD, TERRY ALBAUGH, WARREN, MN, WELL IN PUMPHOUSE, SAMPLED KITCHEN;  
 1-51 KRET IS PRESENT;  
 1-78 TERRY ALBAUGH & RT 3 & WARREN, MN 56762;

602905 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 14.0 WEATHER U WINDY-RAINY  
 PHASE 2 MAP NM1412 SITE 0271 TIME TAKEN 11/12/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.131( 48 7'51") LONG 96.575( 96 34'30") CONTAMINANTS NONE  
 SURFACE GEOL UNIT OTL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 564 DISSOLVED OXYGEN(PPM) 4.4  
 WATER TEMP(C) + 9.3 VISIBILITY(M) CLEAR PH 7.5 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 240 P ALKALINITY(PPM) 35 M ALKALINITY(PPM) 246  
 APPEARANCE CLEAR DISCHARGE(L/M) CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE  
 PRODUCING HORIZON OPG

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 64 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY CONSTANT  
 DEPTH TO PROD HORIZON(M) 64 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 68 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION USER

## REMARKS:

1-38 RADIUM 7.5 MINUTE QUAD, 103144, GARY ANDERSON, ANGUS, MN, WELL IN PUMPHOUSE, SAMPLED IN PUMPHOUSE;  
 1-51 KRET IS PRESENT;  
 1-78 GARY ANDERSON & RT 1 & ANGUS, MN 56712;

602906 TYPE WELL WATER REPLICATE SAMPLER DRS AIR TEMP(C) + 14.0 WEATHER U WINDY-RAINY  
 PHASE 2 MAP NM1412 SITE 0272 TIME TAKEN 11/12/09/78 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.123( 48 7'22") LONG 96.624( 96 37'26") CONTAMINANTS NONE  
 SURFACE GEOL UNIT OTL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 576 DISSOLVED OXYGEN(PPM) 4.1



WATER TEMP(C)	+ 10.9	VISIBILITY(M)	CLEAR	PH	7.2	LO-ION PAPER
TOTAL ALKALINITY(PPM)	192	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	194	
APPEARANCE	CLEAR	DISCHARGE(L/M)				
PRODUCING HORIZON	OPG	CONFIDENCE	PROBABLE	SOURCE	GEOL. INFERENCE	

## WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	STEEL	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD	1	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSEHOLD	PUMPING FREQUENCY	CONSTANT
DEPTH TO PROD HORIZON(M)	60	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	GEOL. INFERENCE		
WELL DEPTH(M)	62	CONFIDENCE OF WELL DEPTH	HIGH	SOURCE OF DEPTH INFORMATION	OWNER		

## REMARKS:

1-38 ANGUS SE 7.5 MINUTE QUAD, T05651, PEARSON BROS, WARREN, MN, WELL 20M EAST OF NEW HOUSE, SAMPLED ADJACENT HYDRANT;  
 1-51 KRET IS PRESENT;  
 1-78 PEARSON BROS. & RT 3 & WARREN, MN 56762;

602907	TYPE WELL WATER	REPLICATE	SAMPLER DRS	AIR TEMP(C)	+ 14.0	WEATHER	U WINDY-OVERCAST
	PHASE 2	MAP NM1412	SITE 0273	TIME TAKEN	11/12/09/78	RELIEF	FLAT
	LOCATION: LAT	48.077( 48 4'37")	LONG	96.667( 96 40' 1")		CONTAMINANTS	NONE
	SURFACE GEOL UNIT	OTL	RESULTS REQ	YES	RELEASED	BQ1031	
						SAMPLE: COLOR	-CL -ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	842	DISSOLVED OXYGEN(PPM)	2.2
WATER TEMP(C)	+ 10.9	VISIBILITY(M)	CLEAR	PH	7.3
TOTAL ALKALINITY(PPM)	188	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	188
APPEARANCE	CLEAR	DISCHARGE(L/M)			
PRODUCING HORIZON	OPG	CONFIDENCE	PROBABLE	SOURCE	GEOL. INFERENCE

## WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ARTESIAN	CASING	STEEL	PIPE COMPOSITION	OTHER
METERS FROM HEAD	0	WITH RESPECT TO PRESSURE TANK	NONE	USE	HOUSEHOLD	PUMPING FREQUENCY	CONSTANT
DEPTH TO PROD HORIZON(M)	58	CONFIDENCE OF PRODUCING DEPTH	POSSIBLE	SOURCE OF PRODUCING INFORMATION	GEOL. INFERENCE		
WELL DEPTH(M)	61	CONFIDENCE OF WELL DEPTH	POSSIBLE	SOURCE OF DEPTH INFORMATION	OWNER		

## REMARKS:

1-38 ANGUS 7.5 MINUTE QUAD, ELSIE CONFER, ANGUS, MN, WELL IN WELL HOUSE, SAMPLED AT HEAD;  
 1-51 KRET IS PRESENT;  
 1-78 ELSIE CONFER & ANGUS, MN 56712;  
 3-21 NO PIPE;

602908	TYPE WELL WATER	REPLICATE	SAMPLER DRS	AIR TEMP(C)	+ 14.0	WEATHER	U WINDY-RAINY
	PHASE 2	MAP NM1412	SITE 0274	TIME TAKEN	12/12/09/78	RELIEF	FLAT
	LOCATION: LAT	48.022( 48 1'19")	LONG	96.654( 96 39'14")		CONTAMINANTS	NONE
	SURFACE GEOL UNIT	OTL	RESULTS REQ	YES	RELEASED	BQ1031	
						SAMPLE: COLOR	-CL -ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	706	DISSOLVED OXYGEN(PPM)	2.2
WATER TEMP(C)	+ 11.0	VISIBILITY(M)	CLEAR	PH	7.6
TOTAL ALKALINITY(PPM)	194	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	194
APPEARANCE	CLEAR	DISCHARGE(L/M)			
PRODUCING HORIZON	OPG	CONFIDENCE	PROBABLE	SOURCE	GEOL. INFERENCE

## WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	STEEL	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD	1	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSE/STOCK	PUMPING FREQUENCY	CONSTANT
DEPTH TO PROD HORIZON(M)	75	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	GEOLOGICAL INFERENCE		
WELL DEPTH(M)	78	CONFIDENCE OF WELL DEPTH	HIGH	SOURCE OF DEPTH INFORMATION	OWNER		

REMARKS:

1-38 ANGUS 7.5 MINUTE QUAD, DONALD STRICKLER, EUCLID MN, WELL IN PUMPHOUSE AT NEW HOUSE NEAR HIGHWAY, SAMPLED AT HEAD;  
 1-51 KRET IS PRESENT;  
 1-78 DONALD STRICKLER & BOX 54 & EUCLID, MN 56722;

602909	TYPE WELL WATER	REPLICATE	SAMPLER GJG	AIR TEMP(C)	+ 15.1	WEATHER	U WINDY-RAINY
	PHASE 2	MAP NM1412	SITE 0279	TIME TAKEN	13/12/09/78	RELIEF	FLAT
	LOCATION: LAT	48.038( 48 2'16")	LONG	96.568( 96 34' 4")	CONTAMINANTS	NONE	VEGETATION GRASS-MODERATE
	SURFACE GEOL UNIT	OPG	RESULTS REQ	YES	RELEASED	801031	SAMPLE: COLOR - -CL - ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	920	DISSOLVED OXYGEN(PPM)	0.5
WATER TEMP(C)	+ 9.2	VISIBILITY(M)	CLEAR	PH	7.8 LO-ION PAPER
TOTAL ALKALINITY(PPM)	235	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	240
APPEARANCE	CLEAR	DISCHARGE(L/M)	379.00	SOURCE	GEOLOGICAL INFERENCE
PRODUCING HORIZON	OPG	CONFIDENCE	HIGH		

WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	STEEL	PIPE COMPOSITION	GALVANIZED
METERS FROM HEAD	0	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSE/STOCK	PUMPING FREQUENCY	FREQUENT
DEPTH TO PROD HORIZON(M)	69	CONFIDENCE OF PRODUCING DEPTH	HIGH	SOURCE OF PRODUCING INFORMATION	GEOLOGICAL INFERENCE		
WELL DEPTH(M)	77	CONFIDENCE OF WELL DEPTH	HIGH	SOURCE OF DEPTH INFORMATION	GEOLOGICAL INFERENCE		

REMARKS:

1-38 ANGUS SE 7.5 MINUTE TOPO, 101803, HENRY STEER, RT.1, EUCLID, MN., 56722, SAMPLE FROM HYDRANT ON PUMPHOUSE, WELL IS 12M NORTH OF HOUSE;  
 1-51 KRET IS PRESENT;  
 1-78 HENRY STEER & RT.1 & EUCLID, MN., 56722;

602910	TYPE WELL WATER	REPLICATE	SAMPLER GJG	AIR TEMP(C)	+ 15.1	WEATHER	U WINDY-RAINY
	PHASE 2	MAP NM1412	SITE 0280	TIME TAKEN	14/12/09/78	RELIEF	FLAT
	LOCATION: LAT	48.080( 48 4'48")	LONG	96.587( 96 35'13")	CONTAMINANTS	NONE	VEGETATION GRASS-MODERATE
	SURFACE GEOL UNIT	OTL	RESULTS REQ	YES	RELEASED	801031	SAMPLE: COLOR - -CL - ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	900	DISSOLVED OXYGEN(PPM)	0.7
WATER TEMP(C)	+ 12.6	VISIBILITY(M)	CLEAR	PH	7.5 LO-ION PAPER
TOTAL ALKALINITY(PPM)	220	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	220
APPEARANCE	CLEAR	DISCHARGE(L/M)		SOURCE	GEOLOGICAL INFERENCE
PRODUCING HORIZON	OPG	CONFIDENCE	HIGH		

WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ARTESIAN	CASING	STEEL	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD	47	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSE/STOCK	PUMPING FREQUENCY	CONSTANT
DEPTH TO PROD HORIZON(M)	30	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	GEOLOGICAL INFERENCE		
WELL DEPTH(M)	30	CONFIDENCE OF WELL DEPTH	PROBABLE	SOURCE OF DEPTH INFORMATION	OWNER		

REMARKS:

1-38 ANGUS SE 7.5 MINUTE TOPO, ART DOBIAS, RT. 1, ANGUS, MN., 56712, SAMPLE FROM KITCHEN FAUCET, WELL IS 39M NW OF HOUSE;  
 1-51 KRET IS PRESENT;  
 1-78 ART DOBIAS & RT. 1 & ANGUS, MN., 56712;  
 3-21 BM OF COPPER.

606801 TYPE STREAM SEDIMENT REPLICATE SAMPLER ADB AIR TEMP(C) + 34.0 WEATHER LT WIND-OVERCST  
 PHASE 2 MAP NM1412 SITE 0501 TIME TAKEN 12/13/07/79 RELIEF LOW VEGETATION GRASS-DENSE  
 LOCATION: LAT 48.020 (48 1'12") LONG 97.883 (97 52'58") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) 0.25  
 WATER: WIDTH(M) 1.00 DEPTH(M) 0.10 LEVEL NORMAL  
 SURFACE GEOL UNIT QPG RESULTS REQ NO ,RELEASED 801031 BED MATERIAL PEBBLE SAMPLE: COLOR M-GY-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 9 ORGANIC MATERIAL(%) 10

## REMARKS:

1-38, FORDVILLE, S.W. 7.5' TOPO, SAMPLE TAKEN 150 M. SOUTH (UPSTREAM) OF BEND IN ROAD, 20 M. INTERVAL FROM FENCE LINE.  
 1-60, STOCK, ROW CROPS, SOIL;

606802 TYPE STREAM SEDIMENT REPLICATE SAMPLER ADB AIR TEMP(C) + 34.0 WEATHER LT WIND-OVERCST  
 PHASE G MAP NM1412 SITE 0502 TIME TAKEN 13/13/07/79 RELIEF LOW VEGETATION GRASS-VERY DENSE  
 LOCATION: LAT 48.045 (48 2'42") LONG 97.775 (97 46'30") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) STAG  
 WATER: WIDTH(M) 2.00 DEPTH(M) 0.25 LEVEL POOLS  
 SURFACE GEOL UNIT QPG RESULTS REQ NO ,RELEASED 801031 BED MATERIAL SAND SAMPLE: COLOR D-GY-BK ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 20

## REMARKS:

1-38 FORDVILLE, S.E. 7.5' TOPO, SAMPLE TAKEN 25 M. UPSTREAM OF BRIDGE, 20 M. INTERVAL FROM M.N.E. BEND IN BED AND START OF TREE  
 LINE (EAST FACE);  
 1-60, STOCK, ROW CROPS, ROADS UPSTREAM;

606803 TYPE STREAM SEDIMENT REPLICATE SAMPLER ADB AIR TEMP(C) + 34.0 WEATHER LT WIND-OVERCST  
 PHASE 2 MAP NM1412 SITE 0503 TIME TAKEN 13/13/07/79 RELIEF LOW VEGETATION MOSS-DENSE  
 LOCATION: LAT 48.066 (48 3'57") LONG 97.774 (97 46'26") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) STAG  
 WATER: WIDTH(M) 1.00 DEPTH(M) 0.25 LEVEL POOLS  
 SURFACE GEOL UNIT QPG RESULTS REQ NO ,RELEASED 801031 BED MATERIAL SILT SAMPLE: COLOR D-GY-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 45

## REMARKS:

1-38 FORDVILLE, S.E. 7.5' TOPO, SAMPLE TAKEN 40 M. WEST (UPSTREAM) OF ROAD, 20 M. INTERVAL FROM 2ND STANDING POOL;  
 1-60, ROW CROPS;

606804 TYPE STREAM SEDIMENT REPLICATE SAMPLER ADB AIR TEMP(C) + 34.0 WEATHER LT WIND-OVERCST  
 PHASE 2 MAP NM1412 SITE 0504 TIME TAKEN 13/13/07/79 RELIEF LOW VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.073 (48 4'22") LONG 97.774 (97 46'26") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY

SURFACE GEOL UNIT QPG RESULTS REQ NO ,RELEASED 801031 BED MATERIAL SAND SAMPLE: COLOR L-GY-BK ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 10

## REMARKS:

STREAM BED RUNS THROUGH MIDDLE OF CULTIVATED FIELD;  
 1-38 FORDVILLE SE 7.5' TOPO, SAMPLE TAKEN 25 M. UPSTREAM OF ROAD, 20 M. INTERVAL FROM 10TH N-S ROW OF CROPS;  
 1-60, ROW CROPS (NOTE:

606805 TYPE STREAM SEDIMENT REPLICATE SAMPLER ADB AIR TEMP(C) + 34.0 WEATHER LT WIND-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0505 TIME TAKEN 14/13/07/79 RELIEF LOW VEGETATION GRASS-DENSE  
 LOCATION: LAT 48.084 (48 5' 2") LONG 97.775 (97 46' 30") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)

SURFACE GEOL UNIT QPG RESULTS REQ NO ,RELEASED 801031 BED MATERIAL SILT SAMPLE: COLOR D-BK-BU LEVEL DRY ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 40

## REMARKS:

1-38 FORDVILLE SE 7.5' TOPO, SAMPLE TAKEN 25 M. UPSTREAM OF ROAD, 20 M. INTERVAL FROM TRACTOR RUTS;  
 1-60, ROW CROPS (NOTE-STREAM RUNS THROUGH MIDDLE OF CULTIVATED FIELD, USED FOR IRRIGATION);

606806 TYPE STREAM SEDIMENT REPLICATE SAMPLER ADB AIR TEMP(C) + 34.0 WEATHER LT WIND-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0506 TIME TAKEN 14/13/07/79 RELIEF LOW VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.092 (48 5' 31") LONG 97.782 (97 46' 55") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)

SURFACE GEOL UNIT QPG RESULTS REQ NO ,RELEASED 801031 BED MATERIAL SAND SAMPLE: COLOR M-BK-GY LEVEL DRY ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 35

## REMARKS:

1-38 FORDVILLE SE 7.5' TOPO, SAMPLE TAKEN 30 M. UPSTREAM OF ROAD, 20 M. INTERVAL FROM 15 M. SOUTH OF NORTHERN EDGE OF BOTH E.  
 AND W. CULTIVATED FIELDS;  
 1-60, ROW CROPS (NOTE-STREAM RUNS THROUGH CULTIVATED FIELD, USED FOR IRRIGATION);

606807 TYPE STREAM SEDIMENT REPLICATE SAMPLER ADB AIR TEMP(C) + 34.0 WEATHER LT WIND-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0507 TIME TAKEN 14/13/07/79 RELIEF LOW VEGETATION MOSS-DENSE  
 LOCATION: LAT 48.099 (48 5' 56") LONG 97.797 (97 47' 49") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)

SURFACE GEOL UNIT QPG RESULTS REQ NO ,RELEASED 801031 BED MATERIAL SAND SAMPLE: COLOR D-BK-GY LEVEL DRY ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 25

## REMARKS:

1-38 FORDVILLE SE 7.5' TOPO, SAMPLE TAKEN 30 M. UPSTREAM OF ROAD, 20 M. INTERVAL FROM EASTERN TIP OF SMALL GROVE OF TREES;  
 1-60, STOCK, ROW CROPS (NOTE-STREAM RUNS THROUGH CULTIVATED FIELDS);

606808 TYPE STREAM SEDIMENT REPLICATE SAMPLER ADB AIR TEMP(C) + 34.0 WEATHER LT WIND-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0508 TIME TAKEN 15/13/07/79 RELIEF LOW VEGETATION DECIDUOUS-DENSE  
 LOCATION: LAT 48.092 (48 5'31") LONG 97.862 (97 51'43") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) 3.00 DEPTH(M) 0.25 LEVEL NORMAL  
 BED MATERIAL PEBBLE SAMPLE: COLOR M-GY-BK ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 10

## REMARKS:

1-38 FORDVILLE SE 7.5' TOPO, SAMPLE TAKEN 30 M. UPSTREAM OF ROAD, 20 M. INTERVAL FROM 1ST POOL;  
 1-60, ROW CROPS;

606809 TYPE STREAM SEDIMENT REPLICATE SAMPLER ADB AIR TEMP(C) + 34.0 WEATHER LT WIND-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0509 TIME TAKEN 15/13/07/79 RELIEF LOW VEGETATION GRASS-DENSE  
 LOCATION: LAT 48.109 (48 6'32") LONG 97.832 (97 49'55") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL SILT SAMPLE: COLOR D-GY-BK ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 45

## REMARKS:

1-38 FORDVILLE SE 7.5' TOPO, SAMPLE TAKEN 1-KM. UPSTREAM OF ROAD, 20 M. INTERVAL FROM NORTHERLY BEND IN BED AND LARGE ROCK;  
 1-60, ROW CROPS, STOCK;

606810 TYPE STREAM SEDIMENT REPLICATE SAMPLER ADB AIR TEMP(C) + 34.0 WEATHER LT WIND-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0510 TIME TAKEN 15/13/07/79 RELIEF LOW VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.116 (48 6'57") LONG 97.840 (97 50'24") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) 5.00 DEPTH(M) 0.50 LEVEL NORMAL  
 BED MATERIAL CLAY SAMPLE: COLOR D-GY-BK ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 40

## REMARKS:

1-38 FORDVILLE SE 7.5' TOPO, SAMPLE TAKEN 40 M. UPSTREAM OF BRIDGE, 20 M. INTERVAL FROM EASTERN END OF GROVE AND POND;  
 1-60, STOCK, ROW CROPS;

606811 TYPE STREAM SEDIMENT REPLICATE SAMPLER ADB AIR TEMP(C) + 34.0 WEATHER LT WIND-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0511 TIME TAKEN 16/13/07/79 RELIEF LOW VEGETATION GRASS-DENSE  
 LOCATION: LAT 48.151 (48 9' 3") LONG 97.861 (97 51'39") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) STAG  
 SURFACE GEOL UNIT QPG RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) 2.00 DEPTH(M) 0.25 LEVEL POOLS  
 BED MATERIAL CLAY SAMPLE: COLOR D-GY-BK ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 60

## REMARKS:

1-38 FORDVILLE 7.5' TOPO, SAMPLE TAKEN 25 M. UPSTREAM OF ROAD, 20 M. INTERVAL FROM WESTERLY BEND IN BED;  
 1-60, STOCK, ROW CROPS;

606812 TYPE STREAM SEDIMENT REPLICATE SAMPLER ADB AIR TEMP(C) + 34.0 WEATHER LT WIND-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0512 TIME TAKEN 16/13/07/79 RELIEF LOW VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.153( 48 9'10") LONG 97.883( 97 52'58") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) 5.00 DEPTH(M) 0.25 LEVEL LOW  
 BED MATERIAL CLAY SAMPLE: COLOR D-GY-BK ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 55

## REMARKS:

1-38, DAHLEN 7.5' TOPO, SAMPLE TAKEN 50 M. UPSTREAM OF ROAD, 20 M. INTERVAL FROM SOUTHERLY BEND IN BED;  
 1-60, STOCK, ROW CROPS;

606813 TYPE STREAM SEDIMENT REPLICATE SAMPLER ADB AIR TEMP(C) + 34.0 WEATHER LT WIND-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0513 TIME TAKEN 16/13/07/79 RELIEF LOW VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.160( 48 9'36") LONG 97.883( 97 52'58") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) STAG  
 SURFACE GEOL UNIT QPG RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) 3.00 DEPTH(M) 0.25 LEVEL POOLS  
 BED MATERIAL SILT SAMPLE: COLOR D-GY-BK ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 40

## REMARKS:

1-38, DAHLEN 7.5' TOPO, SAMPLE TAKEN 30 M. UPSTREAM OF ROAD, 20 M. INTERVAL FROM LARGE PILE OF ROCKS, NORTH BANK;  
 1-60, STOCK, ROW CROPS;

606814 TYPE STREAM SEDIMENT REPLICATE SAMPLER ADB AIR TEMP(C) + 34.0 WEATHER LT WIND-OVERCAST  
 PHASE G MAP NM1412 SITE 0514 TIME TAKEN 17/13/07/79 RELIEF LOW VEGETATION GRASS-DENSE  
 LOCATION: LAT 48.168( 48 10' 4") LONG 97.797( 97 47'49") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) 0.25  
 SURFACE GEOL UNIT QPG RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) 6.00 DEPTH(M) 1.00 LEVEL NORMAL  
 BED MATERIAL SAND SAMPLE: COLOR M-BK-GY ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 10

## REMARKS:

1-38 FORDVILLE 7.5' TOPO, SAMPLE TAKEN 25 M. UPSTREAM OF ROAD, 20 M. INTERVAL FROM 1ST BEND IN BED (NORTH);  
 1-60, STOCK, ROW CROPS;

606815 TYPE STREAM SEDIMENT REPLICATE SAMPLER ADB AIR TEMP(C) + 34.0 WEATHER LT WIND-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0515 TIME TAKEN 17/13/07/79 RELIEF LOW VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.179( 48 10'49") LONG 97.818( 97 49' 4") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) 6.00 DEPTH(M) 0.25 LEVEL DRY  
 BED MATERIAL SAND SAMPLE: COLOR L-GY-WH ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 10

## REMARKS:

1-38 FORDVILLE 7.5' TOPO, SAMPLE TAKEN 25 M. UPSTREAM OF ROAD, 20 M. INTERVAL FROM TREELINE;  
 1-60, ROW CROPS, STOCK;

606816 TYPE STREAM SEDIMENT REPLICATE SAMPLER ADB AIR TEMP (C) + 34.0 WEATHER LT WIND-OVERCAST  
 PHASE G MAP NM1412 SITE 0516 TIME TAKEN 17/13/07/79 RELIEF LOW VEGETATION GRASS-DENSE  
 LOCATION: LAT 48.207 (48 12'25") LONG 97.798 (97 47'52") CONTAMINANTS AGRICULTURA STREAM FLOW (M/SEC) 0.50  
 SURFACE GEOL UNIT QPG RESULTS REQ NO , RELEASED 801031 WATER: WIDTH (M) 10.00 DEPTH (M) 1.00 LEVEL NORMAL  
 BED MATERIAL PEBBLE SAMPLE: COLOR M-GY-WH ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 10

## REMARKS:

1-38, FORDVILLE 7.5' TOPO, SAMPLE TAKEN 30 M. UPSTREAM OF BRIDGE, 20 M. INTERVAL FROM 1ST LARGE POOL;  
 1-60, STOCK, ROW CROPS;

606817 TYPE STREAM SEDIMENT REPLICATE SAMPLER ADB AIR TEMP (C) + 34.0 WEATHER LT WIND-RAINY  
 PHASE 2 MAP NM1412 SITE 0517 TIME TAKEN 17/13/07/79 RELIEF LOW VEGETATION GRASS-DENSE  
 LOCATION: LAT 48.214 (48 12'50") LONG 97.884 (97 53' 2") CONTAMINANTS AGRICULTURA STREAM FLOW (M/SEC) NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ NO , RELEASED 801031 WATER: WIDTH (M) 5.00 DEPTH (M) 0.25 LEVEL LOW  
 BED MATERIAL SILT SAMPLE: COLOR D-BK-GY ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 40

## REMARKS:

1-38, DAHLEN 7.5' TOPO, SAMPLE TAKEN 30 M. UPSTREAM OF ROAD, 20 M. INTERVAL FROM 1ST POOL;  
 1-60, STOCK, ROW CROPS;

606819 TYPE STREAM SEDIMENT REPLICATE SAMPLER ADB AIR TEMP (C) + 34.0 WEATHER LT WIND-RAINY  
 PHASE 2 MAP NM1412 SITE 0519 TIME TAKEN 18/13/07/79 RELIEF LOW VEGETATION GRASS-DENSE  
 LOCATION: LAT 48.232 (48 13'55") LONG 97.980 (97 58'48") CONTAMINANTS AGRICULTURA STREAM FLOW (M/SEC) STAG  
 SURFACE GEOL UNIT QPG RESULTS REQ NO , RELEASED 801031 WATER: WIDTH (M) 2.00 DEPTH (M) 0.25 LEVEL POOLS  
 BED MATERIAL CLAY SAMPLE: COLOR D-BK-GY ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 45

## REMARKS:

1-38, DAHLEN 7.5' TOPO, SAMPLE TAKEN 40 M. NORTH (UPSTREAM) OF ROAD, 20 M. INTERVAL FROM EASTERLY BEND IN BED;  
 1-60, STOCK, ROW CROPS;

606820 TYPE STREAM SEDIMENT REPLICATE SAMPLER ADB AIR TEMP (C) + 34.0 WEATHER LT WIND-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0520 TIME TAKEN 18/13/07/79 RELIEF LOW VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.240 (48 14'24") LONG 97.905 (97 54'18") CONTAMINANTS AGRICULTURA STREAM FLOW (M/SEC) 0.50  
 SURFACE GEOL UNIT QPG RESULTS REQ NO , RELEASED 801031 WATER: WIDTH (M) 3.00 DEPTH (M) 0.50 LEVEL NORMAL  
 BED MATERIAL SAND SAMPLE: COLOR D-BK-GY ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL (%) 35

## REMARKS:

1-38 DAHLEN 7.5' TOPO, SAMPLE TAKEN 25 M. UPSTREAM OF ROAD, 20 M. INTERVAL FROM NORTHERN END OF 1ST POOL;  
 1-60, STOCK, ROW CROPS;

606821 TYPE STREAM SEDIMENT REPLICATE SAMPLER ADB  
 PHASE 2 MAP NM1412 SITE 0521 TIME TAKEN 19/13/07/79 AIR TEMP(C) + 34.0 WEATHER LT WIND-OVERCAST  
 LOCATION: LAT 48.246( 48 14'45") LONG 97.861( 97 51'39") RELIEF LOW VEGETATION GRASS-DENSE  
 CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) 0.50  
 WATER: WIDTH(M) 1.00 DEPTH(M) 0.25 LEVEL NORMAL  
 SURFACE GEOL UNIT QPG RESULTS REQ NO, RELEASED 801031 BED MATERIAL PEBBLE SAMPLE: COLOR M-GN-BU ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 10

REMARKS:

1-38, FORDVILLE 7.5' TOPO, SAMPLE TAKEN 60 M. WEST OF ROAD, 20 M. INTERVAL FROM OLD CULVERT (UPSTREAM);  
 1-60, STOCK, ROW CROPS

606822 TYPE WELL WATER REPLICATE SAMPLER ADB  
 PHASE 2 MAP NM1412 SITE 0522 TIME TAKEN 11/14/07/79 AIR TEMP(C) + 34.0 WEATHER -CLEAR  
 LOCATION: LAT 48.004( 48 0'14") LONG 97.757( 97 45'25") RELIEF LOW VEGETATION GRASS-MODERATE  
 SURFACE GEOL UNIT QPG RESULTS REQ YES, RELEASED 801031 CONTAMINANTS AGRICULTURA SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 3910 DISSOLVED OXYGEN(PPM) 2.8  
 WATER TEMP(C) + 8.2 VISIBILITY(M) CLEAR PH 6.5 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 360 P. ALKALINITY(PPM) <5 M. ALKALINITY(PPM) 360  
 APPEARANCE CLEAR DISCHARGE(L/M) 40.00  
 PRODUCING HORIZON QPG CONFIDENCE POSSIBLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION ELECTRIC CASING OTHER PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 0 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON(M) 11 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH(M) 11 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38, FORDVILLE SE 7.5' TOPO, SAMPLE TAKEN FROM WELLHEAD 70M. SOUTH OF OLD, MAIN FARMHOUSE;  
 1-60, STOCK, FARM MACHINERY, PUMP;  
 1-78, DENNIS KYLLO & MCCANNA, NORTH DAKOTA & 58253;  
 3-20, CONCRETE;

606823 TYPE WELL WATER REPLICATE SAMPLER ADB  
 PHASE 2 MAP NM1412 SITE 0523 TIME TAKEN 12/14/07/79 AIR TEMP(C) + 34.0 WEATHER -CLEAR  
 LOCATION: LAT 48.008( 48 0'28") LONG 97.881( 97 52'51") RELIEF LOW VEGETATION GRASS-MODERATE  
 SURFACE GEOL UNIT QPG RESULTS REQ YES, RELEASED 801031 CONTAMINANTS AGRICULTURA SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 1650 DISSOLVED OXYGEN(PPM) 4.6  
 WATER TEMP(C) + 14.7 VISIBILITY(M) CLEAR PH 7.3 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 490 P. ALKALINITY(PPM) <5 M. ALKALINITY(PPM) 490  
 APPEARANCE CLEAR DISCHARGE(L/M) 30.00  
 PRODUCING HORIZON QPG CONFIDENCE POSSIBLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 18 WITH RESPECT TO PRESSURE TANK NONE USE HOUSEHOLD PUMPING FREQUENCY CONSTANT  
 DEPTH TO PROD HORIZON(M) 11 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER



WELL DEPTH(M) CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

J-38 FORDVILLE, SE 7.5' TOPO, SAMPLE TAKEN FROM OUTSIDE FAUCET ON EAST SIDE OF HOUSE, WELLHEAD LOCATED 4M. SOUTH OF HOUSE;
I-60, ELECTRIC PUMP, ROW CROPS;
I-78 ALLEN TENNISON & NIAGARA, NORTH DAKOTA & 58266.

606824 TYPE WELL WATER REPLICATE SAMPLER ADB AIR TEMP(C) + 35.0 WEATHER -CLEAR
PHASE 2 MAP NM1412 SITE 0524 TIME TAKEN 12/14/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
LOCATION; LAT 48.049(48 2'56") LONG 97.943(97 56'34") CONTAMINANTS - AGRICULTURA SAMPLE; COLOR - -CL ODOR NONE
SURFACE GEOL UNIT QPG RESULTS REQ YES, RELEASED 801031

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 1340 DISSOLVED OXYGEN(PPM) 3.1
WATER TEMP(C) + 14.9 VISIBILITY(M) CLEAR PH 7.5 LO-ION PAPER
TOTAL ALKALINITY(PPM) 390 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 390
APPEARANCE CLEAR DISCHARGE(L/M) 30.00
PRODUCING HORIZON KGCN CONFIDENCE POSSIBLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC
METERS FROM HEAD 0 WITH RESPECT TO PRESSURE TANK AFTER USE STOCK PUMPING FREQUENCY INFREQUENT
DEPTH TO PROD HORIZON(M) 30 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER
WELL DEPTH(M) 30 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION USER

REMARKS:

J-38 FORDVILLE SW 7.5' TOPO, SAMPLE TAKEN FROM PUMP ON EAST SIDE OF BARN, ABOVE WELLHEAD;
I-60, STOCK, ROW CROPS; HOSE (RUBBER);
I-78 ARNOLD VOELKER & PETERSBURG, NORTH DAKOTA & ;

606825 TYPE WELL WATER REPLICATE SAMPLER ADB AIR TEMP(C) + 35.0 WEATHER -CLEAR
PHASE 2 MAP NM1412 SITE 0525 TIME TAKEN 13/14/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
LOCATION; LAT 48.050(48 3' 0") LONG 97.886(97 53' 9") CONTAMINANTS - AGRICULTURA SAMPLE; COLOR - -CL ODOR NONE
SURFACE GEOL UNIT QPG RESULTS REQ YES, RELEASED 801031

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 2190 DISSOLVED OXYGEN(PPM) 4.6
WATER TEMP(C) + 8.8 VISIBILITY(M) CLEAR PH 7.6 LO-ION PAPER
TOTAL ALKALINITY(PPM) 457 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 457
APPEARANCE CLEAR DISCHARGE(L/M) 30.00
PRODUCING HORIZON QPG CONFIDENCE HIGH SOURCE PUBLICATION

WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION ELECTRIC CASING OTHER PIPE COMPOSITION GALVANIZED
METERS FROM HEAD 10 WITH RESPECT TO PRESSURE TANK AFTER USE STOCK PUMPING FREQUENCY FREQUENT
DEPTH TO PROD HORIZON(M) 7 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER
WELL DEPTH(M) 7 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

J-38 FORDVILLE SW 7.5' TOPO, SAMPLE TAKEN FROM FAUCET ON WEST SIDE OF WHITE GARAGE, WELLHEAD LOCATED 10M. SOUTH OF FAUCET;
I-60, STOCK, ROW CROPS, STORAGE BINS;
I-78, H. H. KRUEGER & NIAGARA, NORTH DAKOTA & 58266.

606826 TYPE WELL WATER REPLICATE SAMPLER ADB AIR TEMP (C) + 35.0 WEATHER -CLEAR  
 PHASE 2 MAP NM1412 SITE 0526 TIME TAKEN 13/14/07/79 RELIEF LOW VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.080 (48 4'48") LONG 97.752 (97 45' 7") CONTAMINANTS AGRICULTURA  
 SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 1460 DISSOLVED OXYGEN (PPM) 1.8  
 WATER TEMP (C) + 18.1 VISIBILITY (M) CLEAR PH 7.1 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 512 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 512  
 APPEARANCE CLEAR DISCHARGE (L/M) 25.00 SOURCE PUBLICATION  
 PRODUCING HORIZON QPG CONFIDENCE HIGH

## WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION ELECTRIC CASING OTHER PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 11 WITH RESPECT TO PRESSURE TANK AFTER USE STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON (M) 3 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH (M) 3 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

## REMARKS:

1-38 FORDVILLE SE 7.5' TOPO, SAMPLE TAKEN FROM FAUCET INSIDE NORTH DOOR OF WHITE DAIRY BARN, WEST SIDE OF ROAD, WELLHEAD  
 LOCATED 1M. EAST OF WHITE BARN, SOUTHERN CORNER OF EAST FACE;  
 1-60, STOCK, PUMP, ROW CROPS;  
 1-78 CHARLES MURPHY & NIAGARA, NORTH DAKOTA & 58266;  
 3-20, CONCRETE;

606827 TYPE WELL WATER REPLICATE SAMPLER ADB AIR TEMP (C) + 35.0 WEATHER -CLEAR  
 PHASE 2 MAP NM1412 SITE 0527 TIME TAKEN 14/13/07/79 RELIEF LOW VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.095 (48 5'42") LONG 97.821 (97 49' 5") CONTAMINANTS AGRICULTURA  
 SURFACE GEOL UNIT QPG RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 1650 DISSOLVED OXYGEN (PPM) 2.2  
 WATER TEMP (C) + 11.4 VISIBILITY (M) CLEAR PH 7.2 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 400 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 400  
 APPEARANCE CLEAR DISCHARGE (L/M) 30.00 SOURCE PUBLICATION  
 PRODUCING HORIZON QPG CONFIDENCE HIGH

## WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION ELECTRIC CASING OTHER PIPE COMPOSITION COPPER  
 METERS FROM HEAD 60 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY CONSTANT  
 DEPTH TO PROD HORIZON (M) 6 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH (M) 6 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

## REMARKS:

1-38, FORDVILLE SE 7.5' TOPO, SAMPLE TAKEN FROM KITCHEN SINK, WELLHEAD LOCATED 60 M, NORTH OF HOUSE;  
 1-60, STOCK, ROW CROPS;  
 1-78 VERNON WALSH & NIAGARA, NORTH DAKOTA & 58266;

606828 TYPE WELL WATER REPLICATE SAMPLER ADB AIR TEMP (C) + 35.0 WEATHER -CLEAR  
 PHASE 2 MAP NM1412 SITE 0528 TIME TAKEN 14/14/07/79 RELIEF LOW VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.105 (48 6'18") LONG 97.956 (97 57' 21") CONTAMINANTS AGRICULTURA  
 SURFACE GEOL UNIT QPG RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY (MICROMHOS/CM)	10000	DISSOLVED OXYGEN (PPM)	2.9
WATER TEMP (C)	+ 9.7	VISIBILITY (M)	CLEAR	PH 8.1	LO-ION PAPER
TOTAL ALKALINITY (PPM)	600	P ALKALINITY (PPM)	20	M ALKALINITY (PPM)	592
APPEARANCE	CLEAR	DISCHARGE (L/M)	40.00	SOURCE GEOL. INFERENCE	
PRODUCING HORIZON	KGCN	CONFIDENCE	POSSIBLE		

WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	STEEL	PIPE COMPOSITION	STEEL
METERS FROM HEAD	0	WITH RESPECT TO PRESSURE TANK	NONE	USE	STOCK	PUMPING FREQUENCY	FREQUENT
DEPTH TO PROD HORIZON (M)	45	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	OWNER		
WELL DEPTH (M)	45	CONFIDENCE OF WELL DEPTH	PROBABLE	SOURCE OF DEPTH INFORMATION	OWNER		

REMARKS:

1-38 FORDVILLE S.W. 7.5' TOPO, SAMPLE TAKEN FROM FAUCET DIRECTLY AT PUMP, WELLHEAD LOCATED AT FAUCET;  
 1-60 STOCK, ROW CROPS, FARM MACHINERY;  
 1-78 HERBERT L. SCHULTZ & PETERSBURG, NORTH DAKOTA & 58272;

606829 TYPE WELL WATER REPLICATE SAMPLER ADB AIR TEMP (C) + 35.0 WEATHER -CLEAR  
 PHASE 2 MAP NM1412 SITE 0529 TIME TAKEN 15/14/07/79 RELIEF LOW VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48 138 (48 8'16") LONG 97.976 (97 58'33") CONTAMINANTS AGRICULTURA  
 SURFACE GEOL UNIT QPG RESULTS REQ YES, RELEASED 801031 SAMPLE COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY (MICROMHOS/CM)	4360	DISSOLVED OXYGEN (PPM)	2.9
WATER TEMP (C)	+ 8.7	VISIBILITY (M)	CLEAR	PH 7.7	LO-ION PAPER
TOTAL ALKALINITY (PPM)	673	P ALKALINITY (PPM)	45	M ALKALINITY (PPM)	673
APPEARANCE	CLEAR	DISCHARGE (L/M)	20.00	SOURCE GEOL. INFERENCE	
PRODUCING HORIZON	KGCN	CONFIDENCE	POSSIBLE		

WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	GALVANIZED	PIPE COMPOSITION	GALVANIZED
METERS FROM HEAD	0	WITH RESPECT TO PRESSURE TANK	NONE	USE	STOCK	PUMPING FREQUENCY	INFREQUENT
DEPTH TO PROD HORIZON (M)	48	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	OWNER		
WELL DEPTH (M)	48	CONFIDENCE OF WELL DEPTH	PROBABLE	SOURCE OF DEPTH INFORMATION	OWNER		

REMARKS:

1-38 DAHLEN 7.5' TOPO, SAMPLE TAKEN FROM PUMP 1/5M. NNW OF HOUSE;  
 1-60 STOCK, ROW CROPS;  
 1-78 HALTER DHNSTAD & PETERSBURG, NORTH DAKOTA & 58272;

606830 TYPE WELL WATER REPLICATE SAMPLER ADB AIR TEMP (C) + 35.0 WEATHER -CLEAR  
 PHASE 2 MAP NM1412 SITE 0530 TIME TAKEN 15/14/07/79 RELIEF LOW VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48 182 (48 10'55") LONG 97.979 (97 58'44") CONTAMINANTS AGRICULTURA  
 SURFACE GEOL UNIT QPG RESULTS REQ YES, RELEASED 801031 SAMPLE COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY (MICROMHOS/CM)	3970	DISSOLVED OXYGEN (PPM)	3.4
WATER TEMP (C)	+ 10.7	VISIBILITY (M)	CLEAR	PH 7.3	LO-ION PAPER
TOTAL ALKALINITY (PPM)	600	P ALKALINITY (PPM)	35	M ALKALINITY (PPM)	600
APPEARANCE	CLEAR	DISCHARGE (L/M)	20.00	SOURCE PUBLICATION	
PRODUCING HORIZON	QPG	CONFIDENCE	HIGH		

WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING OTHER	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD	0	WITH RESPECT TO PRESSURE TANK	AFTER	USE STOCK	PUMPING FREQUENCY	FREQUENT
DEPTH TO PROD HORIZON(M)	11	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	OWNER	
WELL DEPTH(M)	11	CONFIDENCE OF WELL DEPTH	PROBABLE	SOURCE OF DEPTH INFORMATION	OWNER	

REMARKS:

1-38, DAHLEN 7.5' TOPO, SAMPLE TAKEN FROM RED FAUCET DIRECTLY ABOVE WELLHEAD IN RED BARN;  
 1-60, STOCK, ROW CROPS, FARM MACHINERY;  
 1-78 ARNOLD DAHLEN & PETERSBURG, NORTH DAKOTA & 58272;

606832 TYPE WELL WATER REPLICATE SAMPLER ADB AIR TEMP(C) + 35.0 WEATHER -CLEAR  
 PHASE 2 MAP NM1412 SITE 0532 TIME TAKEN 16/14/07/79 RELIEF LOW VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.182 (48 10'55") LONG 97.753 (97 45'10") CONTAMINANTS AGRICULTURA SAMPLE: COLOR -CL ODOR NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	590	DISSOLVED OXYGEN(PPM)	5.4
WATER TEMP(C)	+ 12.3	VISIBILITY(M)	CLEAR	PH 7.6	LO-ION PAPER
TOTAL ALKALINITY(PPM)	288	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	288
APPEARANCE	CLEAR	DISCHARGE(L/M)	20.00		
PRODUCING HORIZON	QPG	CONFIDENCE	POSSIBLE	SOURCE	GEOL. INFERENCE

WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING OTHER	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD	2	WITH RESPECT TO PRESSURE TANK	AFTER	USE HOUSE/STOCK	PUMPING FREQUENCY	CONSTANT
DEPTH TO PROD HORIZON(M)	6	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	OWNER	
WELL DEPTH(M)	6	CONFIDENCE OF WELL DEPTH	PROBABLE	SOURCE OF DEPTH INFORMATION	OWNER	

REMARKS:

1-38 FORDVILLE 7.5' TOPO, SAMPLE TAKEN FROM OUTSIDE FAUCET ON NORTH SIDE OF HOUSE, WELL LOCATED 2 M. NORTH OF FAUCET;  
 1-60, STOCK, ROW CROPS, RIVER;  
 1-78 CLAIRE KROKE & FORDVILLE, NORTH DAKOTA & 58231;

606833 TYPE WELL WATER REPLICATE SAMPLER ADB AIR TEMP(C) + 35.0 WEATHER -CLEAR  
 PHASE 2 MAP NM1412 SITE 0533 TIME TAKEN 16/14/07/79 RELIEF LOW VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.151 (48 9' 3") LONG 97.765 (97 45'54") CONTAMINANTS AGRICULTURA SAMPLE: COLOR -CL ODOR NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	470	DISSOLVED OXYGEN(PPM)	5.4
WATER TEMP(C)	+ 11.9	VISIBILITY(M)	CLEAR	PH 7.8	LO-ION PAPER
TOTAL ALKALINITY(PPM)	230	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	230
APPEARANCE	CLEAR	DISCHARGE(L/M)	20.00		
PRODUCING HORIZON	QPG	CONFIDENCE	POSSIBLE	SOURCE	GEOL. INFERENCE

WELL INFORMATION:

TYPE	DUG	POWER CLASSIFICATION	ELECTRIC	CASING GALVANIZED	PIPE COMPOSITION	STEEL
METERS FROM HEAD	9	WITH RESPECT TO PRESSURE TANK	AFTER	USE HOUSEHOLD	PUMPING FREQUENCY	CONSTANT
DEPTH TO PROD HORIZON(M)	9	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	OWNER	
WELL DEPTH(M)	9	CONFIDENCE OF WELL DEPTH	PROBABLE	SOURCE OF DEPTH INFORMATION	OWNER	

REMARKS:

1-38 FORDVILLE 7.5' TOPO, SAMPLE TAKEN FROM OUTSIDE FAUCET ON WEST FACE OF HOUSE, WELL LOCATED 75 M. SOUTH OF HOUSE;  
 1-60, ROW CROPS;  
 1-78 ED. PIERSON & FORDVILLE, NORTH DAKOTA & 58231;

606834 TYPE WELL WATER REPLICATE SAMPLER ADB AIR TEMP(C) + 35.0 WEATHER -CLEAR  
 PHASE 2 MAP NM1412 SITE 0534 TIME TAKEN 16/14/07/79 RELIEF LOW VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.136( 48 8' 9") LONG 97.840( 97 50' 24") CONTAMINANTS AGRICULTURA  
 SURFACE GEOL UNIT OPG RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 1610 DISSOLVED OXYGEN(PPM) 2.3  
 WATER TEMP(C) + 7.3 VISIBILITY(M) CLEAR PH 7.5 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 400 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 400  
 APPEARANCE CLEAR DISCHARGE(L/M) 20.00 SOURCE PUBLICATION  
 PRODUCING HORIZON OPG CONFIDENCE HIGH

WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION ELECTRIC CASING UNKNOWN PIPE COMPOSITION UNKNOWN  
 METERS FROM HEAD 0 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON(M) 9 CONFIDENCE OF PRODUCING DEPTH HIGH SOURCE OF PRODUCING INFORMATION PUBLICATION  
 WELL DEPTH(M) 9 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION PUBLICATION

REMARKS:

1-38, FORDVILLE 7.5' TOPO, SAMPLE TAKEN FROM PUMP IN SMALL SHACK 30M SSW OF HOUSE;  
 1-60 STOCK, ROW CROPS;  
 1-78 LEYLAND SKJERVEM & FORDVILLE, NORTH DAKOTA & 58231;

606835 TYPE WELL WATER REPLICATE SAMPLER ADB AIR TEMP(C) + 35.0 WEATHER -CLEAR  
 PHASE 2 MAP NM1412 SITE 0534 TIME TAKEN 16/14/07/79 RELIEF LOW VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.139( 48 8' 20") LONG 97.881( 97 52' 51") CONTAMINANTS AGRICULTURA  
 SURFACE GEOL UNIT OPG RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 570 DISSOLVED OXYGEN(PPM) 5.3  
 WATER TEMP(C) + 10.8 VISIBILITY(M) CLEAR PH 7.7 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 350 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 350  
 APPEARANCE CLEAR DISCHARGE(L/M) 20.00 SOURCE PUBLICATION  
 PRODUCING HORIZON OPG CONFIDENCE HIGH

WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 0 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY CONSTANT  
 DEPTH TO PROD HORIZON(M) 11 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH(M) 11 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38, DAHLEN 7.5' TOPO, SAMPLE TAKEN FROM PUMP IN SMALL SHACK 100 M WEST OF HOUSE;  
 1-60, ROW CROPS, ROAD;  
 1-78, ALVIN BENSON & FORDVILLE, NORTH DAKOTA & 58231;

606836 TYPE WELL WATER REPLICATE SAMPLER ADB AIR TEMP(C) + 35.0 WEATHER -CLEAR

PHASE 2 MAP NM1412 SITE 0536 TIME TAKEN 17/14/07/79  
 LOCATION: LAT 48.238 (48 14'16") LONG 97.959 (97 57'32")  
 SURFACE GEOL UNIT OPG RESULTS REQ YES, RELEASED 801031

RELIEF LOW VEGETATION GRASS-MODERATE  
 CONTAMINANTS AGRICULTURA

SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 6690 DISSOLVED OXYGEN (PPM) 2.4  
 WATER TEMP (C) + 13.8 VISIBILITY (M) CLEAR PH 8.4 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 600 P ALKALINITY (PPM) 23 M ALKALINITY (PPM) 610  
 APPEARANCE CLEAR DISCHARGE (L/M) 30.00  
 PRODUCING HORIZON KGCN CONFIDENCE HIGH SOURCE PUBLICATION

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION GALVANIZED  
 METERS FROM HEAD 0 WITH RESPECT TO PRESSURE TANK AFTER USE STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON (M) 312 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH (M) 312 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

## REMARKS:

1-38 DAHLEN 7.5' TOPO, SAMPLE TAKEN FROM PUMP IN RED PUMPHOUSE 10 M. NORTH OF RED BARN;  
 1-60, STOCK, FARM MACHINERY, ROW CROPS;  
 1-78 OLIVER RUZICKA & FORDVILLE, NORTH DAKOTA & 58231;

606837 TYPE WELL WATER REPLICATE SAMPLER ADB  
 PHASE 2 MAP NM1412 SITE 0537 TIME TAKEN 18/14/07/79  
 LOCATION: LAT 48.237 (48 14'13") LONG 97.890 (97 53'24")  
 SURFACE GEOL UNIT OPG RESULTS REQ YES, RELEASED 801031

AIR TEMP (C) + 34.0 WEATHER -CLEAR  
 RELIEF LOW VEGETATION GRASS-MODERATE  
 CONTAMINANTS AGRICULTURA

SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 1860 DISSOLVED OXYGEN (PPM) 6.9  
 WATER TEMP (C) + 13.9 VISIBILITY (M) CLEAR PH 7.6 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 330 P ALKALINITY (PPM) 45 M ALKALINITY (PPM) 330  
 APPEARANCE CLEAR DISCHARGE (L/M) 20.00  
 PRODUCING HORIZON OPG CONFIDENCE HIGH SOURCE PUBLICATION

## WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION ELECTRIC CASING OTHER PIPE COMPOSITION GALVANIZED  
 METERS FROM HEAD 0 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY CONSTANT  
 DEPTH TO PROD HORIZON (M) 5 CONFIDENCE OF PRODUCING DEPTH HIGH SOURCE OF PRODUCING INFORMATION PUBLICATION  
 WELL DEPTH (M) 5 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION PUBLICATION

## REMARKS:

1-38, DAHLEN 7.5' TOPO, SAMPLE TAKEN FROM FAUCET AT WELLHEAD, WELLSHED LOCATED 75 M SSW OF HOUSE;  
 1-60, STOCK, ROW CROPS, ELECTRIC PUMP;  
 1-78 PERRY BRINTNELL & FORDVILLE, NORTH DAKOTA & 58231;  
 3-20, CONCRETE;

606838 TYPE STREAM SEDIMENT REPLICATE SAMPLER ADB  
 PHASE 2 MAP NM1412 SITE 0538 TIME TAKEN 11/15/07/79  
 LOCATION: LAT 48.753 (48 45'10") LONG 97.935 (97 56' 6")  
 SURFACE GEOL UNIT OPL RESULTS REQ NO, RELEASED 801031

AIR TEMP (C) + 24.0 WEATHER LT WIND-OVERCAST  
 RELIEF LOW VEGETATION GRASS-MODERATE  
 CONTAMINANTS AGRICULTURA STREAM FLOW (M/SEC) STAG  
 WATER: WIDTH (M) 6.00 DEPTH (M) 1.00 LEVEL POOLS  
 BED MATERIAL SILT SAMPLE: COLOR D-GY-BK ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 75

## REMARKS:

1-38 HANKS CORNER 7.5' TOPO, SAMPLE TAKEN 25 M. UPSTREAM OF ROAD, 20 M. INTERVAL FROM SOUTHERN TIP OF POOL;  
1-60, STOCK, ROW CROPS;

606839 TYPE STREAM SEDIMENT REPLICATE SAMPLER ADB AIR TEMP(C) + 24.0 WEATHER -OVERCAST  
PHASE 2 MAP NM1412 SITE 0539 TIME TAKEN 11/15/07/79 RELIEF LOW VEGETATION GRASS-DENSE  
LOCATION: LAT 48.765 (48 45'54") LONG 97.953 (97 57'10") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)  
SURFACE GEOL UNIT QAL RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
BED MATERIAL PEBBLE SAMPLE: COLOR L-GY-BK ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 25

## REMARKS:

1-38 HANKS CORNER 7.5' TOPO, SAMPLE TAKEN 25 M. UPSTREAM OF JEEP TRAIL, 20 M. INTERVAL FROM END OF IRRIGATION CHANNEL;  
1-60, SOIL, ROW CROPS;

606840 TYPE STREAM SEDIMENT REPLICATE SAMPLER ADB AIR TEMP(C) + 24.0 WEATHER -OVERCAST  
PHASE 2 MAP NM1412 SITE 0540 TIME TAKEN 12/15/07/79 RELIEF LOW VEGETATION GRASS-DENSE  
LOCATION: LAT 48.778 (48 46'40") LONG 97.963 (97 57'46") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)  
SURFACE GEOL UNIT QAL RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
BED MATERIAL SAND SAMPLE: COLOR M-GY-BK ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 20

## REMARKS:

1-38 HANKS CORNER 7.5' TOPO, SAMPLE TAKEN 25 M. UPSTREAM OF ROAD, 20 M. INTERVAL FROM WESTERLY BEND IN BED;  
1-60, SOIL, ROW CROPS;

606841 TYPE STREAM SEDIMENT REPLICATE SAMPLER ADB AIR TEMP(C) + 24.0 WEATHER -OVERCAST  
PHASE 2 MAP NM1412 SITE 0541 TIME TAKEN 12/15/07/79 RELIEF LOW VEGETATION GRASS-DENSE  
LOCATION: LAT 48.770 (48 46'12") LONG 97.832 (97 49'55") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)  
SURFACE GEOL UNIT QSD RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
BED MATERIAL CLAY SAMPLE: COLOR D-GY-BK ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 35

## REMARKS:

1-38, HALLSON 7.5' TOPO, SAMPLE TAKEN 50 M. NNE OF FARMHOUSE, 20 M. INTERVAL FROM 2ND EASTERLY BEND IN BED;  
1-60, SOIL, ROW CROPS, STOCK, HOUSE;

606842 TYPE STREAM SEDIMENT REPLICATE SAMPLER ADB AIR TEMP(C) + 24.0 WEATHER -OVERCAST  
PHASE 2 MAP NM1412 SITE 0542 TIME TAKEN 12/15/07/79 RELIEF LOW VEGETATION GRASS-MODERATE  
LOCATION: LAT 48.774 (48 46'26") LONG 97.841 (97 50'27") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) 0.50  
WATER: WIDTH(M) 2.00 DEPTH(M) 0.50 LEVEL NORMAL

SURFACE GEOL UNIT QSD RESULTS REQ NO ,RELEASED 801031 BED MATERIAL PEBBLE SAMPLE: COLOR D-BK-GY ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 30

## REMARKS:

1-38 HALLSON 7.5' TOPO, SAMPLE TAKEN 25 M. UPSTREAM OF BRIDGE, 20 M. INTERVAL FROM WESTERLY BEND IN BEND;  
1-60, SOIL, ROW CROPS;

606843 TYPE STREAM SEDIMENT REPLICATE SAMPLER ADB AIR TEMP(C) + 24.0 WEATHER -OVERCAST  
PHASE 2 MAP NM1412 SITE 0543 TIME TAKEN 12/15/07/79 RELIEF LOW VEGETATION GRASS-MODERATE  
LOCATION: LAT 48.775 (48 46' 30") LONG 97.840 (97 50' 24") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)

SURFACE GEOL UNIT QSD RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
BED MATERIAL CLAY SAMPLE: COLOR D-GY-BK ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 40

## REMARKS:

1-38, HALLSON 7.5' TOPO, SAMPLE TAKEN 25 M. UPSTREAM OF ROAD, 20 M. INTERVAL FROM CULVERT;  
1-60, SOIL, ROW CROPS;

606844 TYPE STREAM SEDIMENT REPLICATE SAMPLER ADB AIR TEMP(C) + 24.0 WEATHER -PT CLDY  
PHASE 2 MAP NM1412 SITE 0544 TIME TAKEN 13/15/07/79 RELIEF LOW VEGETATION GRASS-DENSE  
LOCATION: LAT 48.805 (48 48' 18") LONG 97.827 (97 49' 37") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) STAG

SURFACE GEOL UNIT QSD RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) 2.00 DEPTH(M) 0.25 LEVEL POOLS  
BED MATERIAL SILT SAMPLE: COLOR D-GY-BK ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 65

## REMARKS:

1-38, HALLSON 7.5' TOPO, SAMPLE TAKEN 25 M. UPSTREAM OF ROAD, 20 M. INTERVAL FROM NORTHERLY BEND IN BED;  
1-60, ROW CROPS, SOIL;

606845 TYPE STREAM SEDIMENT REPLICATE SAMPLER ADB AIR TEMP(C) + 25.0 WEATHER -OVERCAST  
PHASE 2 MAP NM1412 SITE 0545 TIME TAKEN 13/15/07/79 RELIEF LOW VEGETATION GRASS-MODERATE  
LOCATION: LAT 48.868 (48 52' 4") LONG 97.820 (97 49' 12") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)

SURFACE GEOL UNIT QSD RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
BED MATERIAL SAND SAMPLE: COLOR D-GY-BK ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 10

## REMARKS:

STREAM BED INCORPORATED INTO NEWLY CULTIVATED FIELD, BED ALMOST NON EXISTANT);  
1-38 HALLSON 7.5' TOPO, SAMPLE TAKEN 40M. UPSTREAM OF ROAD, 20M. INTERVAL FROM TREELINE AND EASTERN BORDER OF FIELD;  
1-60 SOIL, ROW CROPS (NOTE);



606846 TYPE STREAM SEDIMENT REPLICATE SAMPLER ADB AIR TEMP(C) + 25.0 WEATHER -OVERCAST  
 PHASE 2 MAP NM1412 SITE 0546 TIME TAKEN 14/15/07/79 RELIEF LOW VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.920 (48 55' 12") LONG 97.812 (97 48' 43") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) 0.50  
 SURFACE GEOL UNIT QAL RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) 2.00 DEPTH(M) 0.25 LEVEL NORMAL  
 BED MATERIAL SILT SAMPLE: COLOR D-BK-GY ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 40

## REMARKS:

1-38 LEROY 7.5' TOPO, SAMPLE TAKEN 25M. UPSTREAM OF ROAD 20M. INTERVAL FROM 2ND FALLEN TREE ACROSS STREAM;  
 1-60 SOIL, ROW CROPS, GARBAGE;

606847 TYPE STREAM SEDIMENT REPLICATE SAMPLER ADB AIR TEMP(C) + 25.0 WEATHER -OVERCAST  
 PHASE 2 MAP NM1412 SITE 0547 TIME TAKEN 14/15/07/79 RELIEF LOW VEGETATION GRASS-DENSE  
 LOCATION: LAT 48.911 (48 54' 39") LONG 97.796 (97 47' 45") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) STAG  
 SURFACE GEOL UNIT QAL RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) 10.00 DEPTH(M) 1.00 LEVEL POOLS  
 BED MATERIAL SILT SAMPLE: COLOR D-GY-BK ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 75

## REMARKS:

1-38 LEROY 7.5' TOPO, SAMPLE TAKEN 25M. UPSTREAM OF ROAD, 20M. INTERVAL FROM POINT IN LINE WITH OLD SHACK ON NORTH SIDE;  
 1-60 STOCK, SOIL, ROW CROPS;

606848 TYPE STREAM SEDIMENT REPLICATE SAMPLER ADB AIR TEMP(C) + 25.0 WEATHER -OVERCAST  
 PHASE G MAP NM1412 SITE 0548 TIME TAKEN 15/15/07/79 RELIEF LOW VEGETATION DECIDUOUS-MODERATE  
 LOCATION: LAT 48.934 (48 56' 2") LONG 97.796 (97 47' 45") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) 1.00  
 SURFACE GEOL UNIT QAL RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) 15.00 DEPTH(M) 0.50 LEVEL NORMAL  
 BED MATERIAL SAND SAMPLE: COLOR M-GY-YL ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 10

## REMARKS:

1-38 LEROY 7.5' TOPO, SAMPLE TAKEN 40M. UPSTREAM OF ROAD, 20M. INTERVAL FROM NORTHERLY BEND IN BED;  
 1-60 SOIL, ROW CROPS, REFUSE;

606849 TYPE STREAM SEDIMENT REPLICATE SAMPLER ADB AIR TEMP(C) + 25.0 WEATHER -OVERCAST  
 PHASE G MAP NM1412 SITE 0549 TIME TAKEN 15/14/07/79 RELIEF LOW VEGETATION GRASS-DENSE  
 LOCATION: LAT 48.969 (48 58' 8") LONG 97.908 (97 54' 28") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT QTL RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL CLAY SAMPLE: COLOR M-BK-GY ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 35

## REMARKS:

1-38 WALHALLA 7.5' TOPO, SAMPLE TAKEN 25M. UPSTREAM OF ROAD, 20M. INTERVAL FROM 10M. WEST OF EASTERN BORDER OF CULTIVATED  
 FIELD;

1-60 SOIL, ROW CROPS (NOTE-STREAM USED TO IRRIGATE FIELD);

606850 TYPE STREAM SEDIMENT REPLICATE SAMPLER ADB AIR TEMP(C) + 25.0 WEATHER -OVERCAST  
 PHASE 2 MAP NM1412 SITE 0550 TIME TAKEN 15/14/07/79 RELIEF LOW VEGETATION GRASS-DENSE  
 LOCATION: LAT 48.997 (48 59'49") LONG 97.908 (97 54'28") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT QTL RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL CLAY SAMPLE: COLOR D-BK-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 40

REMARKS:

1-38 WALHALLA 7.5' TOPO, SAMPLE TAKEN 25M. UPSTREAM OF ROAD, 20M. INTERVAL FROM TRACTOR CROSSING;  
 1-60 ROW CROPS, SOIL;

606851 TYPE STREAM SEDIMENT REPLICATE SAMPLER ADB AIR TEMP(C) + 25.0 WEATHER -OVERCAST  
 PHASE 2 MAP NM1412 SITE 0551 TIME TAKEN 16/14/07/79 RELIEF LOW VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.949 (48 56'56") LONG 97.986 (97 59' 9") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT QPL RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL SAND SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL (%) 20

REMARKS:

1-38 WALHALLA 7.5' TOPO, SAMPLE TAKEN 25M UPSTREAM OF ROAD, 20M INTERVAL FROM 2ND FALLEN TREE;  
 1-60 SOIL, ROW CROPS;

606852 TYPE STREAM SEDIMENT REPLICATE SAMPLER ADB AIR TEMP(C) + 25.0 WEATHER -OVERCAST  
 PHASE 2 MAP NM1412 SITE 0552 TIME TAKEN 16/14/07/79 RELIEF LOW VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.949 (48 56'56") LONG 97.980 (97 58'48") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT QPL RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL SAND SAMPLE: COLOR M-YL-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 15

REMARKS:

1-38 WALHALLA 7.5' TOPO, SAMPLE TAKEN 25M. UPSTREAM OF ROAD, 20M. INTERVAL FROM FENCE LINE;  
 1-60 SOIL, ROW CROPS;

606853 TYPE STREAM SEDIMENT REPLICATE SAMPLER ADB AIR TEMP(C) + 28.0 WEATHER LT WIND-CLEAR  
 PHASE 2 MAP NM1412 SITE 0553 TIME TAKEN 11/17/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.972 (48 58'19") LONG 96.993 (96 59'34") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) STAG  
 SURFACE GEOL UNIT QTL RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) 3.00 DEPTH(M) 0.50 LEVEL POOLS  
 BED MATERIAL CLAY SAMPLE: COLOR L-WH-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 35

## REMARKS:

1-38 WARREN 15' TOPO, SAMPLE TAKEN 25M. UPSTREAM OF ROAD, 20M. INTERVAL FROM SOUTHERLY BEND IN BED;  
1-60 SOIL, ROW CROPS;

606854 TYPE STREAM SEDIMENT REPLICATE SAMPLER ADB AIR TEMP(C) + 29.0 WEATHER LT WIND-CLEAR  
PHASE 2 MAP NM1412 SITE 0554 TIME TAKEN 11/17/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
LOCATION: LAT 48.168( 48 10' 4") LONG 96.908( 96 54' 28") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) NONE  
SURFACE GEOL UNIT QTL RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) 6.00 DEPTH(M) 1.50 LEVEL LOW  
BED MATERIAL CLAY SAMPLE: COLOR M-BK-GY ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 35

## REMARKS:

1-38 WARREN 15' TOPO, SAMPLE TAKEN 25M UPSTREAM OF ROAD, 20M. INTERVAL FROM TRIPLE TREES ON SOUTH BANK;  
1-60 ROW CROPS, SOIL;

606855 TYPE STREAM SEDIMENT REPLICATE SAMPLER ADB AIR TEMP(C) + 29.0 WEATHER LT WIND-CLEAR  
PHASE 2 MAP NM1412 SITE 0555 TIME TAKEN 13/17/07/79 RELIEF FLAT VEGETATION GRASS-DENSE  
LOCATION: LAT 48.164( 48 9' 50") LONG 96.855( 96 51' 18") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) STAG  
SURFACE GEOL UNIT QTL RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) 1.00 DEPTH(M) 0.25 LEVEL DRY  
BED MATERIAL PEBBLE SAMPLE: COLOR M-GY-BK ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 15

## REMARKS:

1-38 WARREN 15' TOPO, SAMPLE TAKEN 25M. UPSTREAM OF ROAD, 20M. INTERVAL FROM APPARENT NORTHERLY BEND IN BED;  
1-60 ROW CROPS;

606856 TYPE STREAM SEDIMENT REPLICATE SAMPLER ADB AIR TEMP(C) + 29.0 WEATHER LT WIND-CLEAR  
PHASE 2 MAP NM1412 SITE 0556 TIME TAKEN 12/17/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
LOCATION: LAT 48.178( 48 10' 40") LONG 96.757( 96 45' 25") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) STAG  
SURFACE GEOL UNIT QTL RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) 1.00 DEPTH(M) 0.25 LEVEL POOLS  
BED MATERIAL CLAY SAMPLE: COLOR M-BK-GY ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 40

## REMARKS:

1-38 WARREN 15' TOPO, SAMPLE TAKEN 25M. UPSTREAM OF ROAD, 20M. INTERVAL FROM 2ND POOL;  
1-60 ROW CROPS, SOIL, RAILROAD;

606858 TYPE STREAM SEDIMENT REPLICATE SAMPLER ADB AIR TEMP(C) + 29.0 WEATHER LT WIND-CLEAR  
PHASE 2 MAP NM1412 SITE 0558 TIME TAKEN 13/17/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
LOCATION: LAT 48.237( 48 14' 13") LONG 96.785( 96 47' 6") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) STAG  
SURFACE GEOL UNIT QTL RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) 1.00 DEPTH(M) 0.25 LEVEL DRY  
BED MATERIAL CLAY SAMPLE: COLOR M-BK-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 35

REMARKS:

1-38 WARREN 15' TOPO, SAMPLE TAKEN 25M. UPSTREAM OF ROAD, 20M. INTERVAL FROM END OF TREES;  
1-60 ROW CROPS, SOIL;

606859 TYPE STREAM SEDIMENT REPLICATE SAMPLER ADB AIR TEMP(C) + 29.0 WEATHER LT WIND-CLEAR  
PHASE 2 MAP NM1412 SITE 0559 TIME TAKEN 13/17/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
LOCATION: LAT 48.222( 48 13'19") LONG 96.835( 96 50' 6") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) STAG  
WATER: WIDTH(M) 6.00 DEPTH(M) 0.25 LEVEL POOLS  
SURFACE GEOL UNIT QTL RESULTS REQ NO ,RELEASED 801031 BED MATERIAL CLAY SAMPLE: COLOR M-GY-BK ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 35

REMARKS:

1-38 WARREN 15' TOPO, SAMPLE TAKEN 25M. UPSTREAM OF ROAD, 20M. INTERVAL FROM FORK IN BED;  
1-60 SOIL, ROW CROPS;

606860 TYPE STREAM SEDIMENT REPLICATE SAMPLER ADB AIR TEMP(C) + 29.0 WEATHER LT WIND-CLEAR  
PHASE 2 MAP NM1412 SITE 0560 TIME TAKEN 13/17/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
LOCATION: LAT 48.227( 48 13'37") LONG 96.842( 96 50'31") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)  
WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
SURFACE GEOL UNIT QTL RESULTS REQ NO ,RELEASED 801031 BED MATERIAL SAND SAMPLE: COLOR D-GY-BK ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 15

REMARKS:

1-38 WARREN 15' TOPO, SAMPLE TAKEN 25M. UPSTREAM OF ROAD, 20M. INTERVAL FROM TREELINE;  
1-60 ROW CROPS, SOIL;

606861 TYPE WELL WATER REPLICATE SAMPLER ADB AIR TEMP(C) + 23.0 WEATHER CALM-CLEAR  
PHASE 2 MAP NM1412 SITE 0561 TIME TAKEN 10/16/07/79 RELIEF LOW VEGETATION DECIDUOUS-DENSE  
LOCATION: LAT 48.794( 48 47'38") LONG 97.753( 97 45'10") CONTAMINANTS AGRICULTURA  
SURFACE GEOL UNIT QPL RESULTS REQ YES ,RELEASED 801031 SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 600 DISSOLVED OXYGEN(PPM) 4.3  
WATER TEMP(C) + 13.2 VISIBILITY(M) CLEAR PH 6.7 LO-ION PAPER  
TOTAL ALKALINITY(PPM) 250 P-ALKALINITY(PPM) 35 M-ALKALINITY(PPM) 250  
APPEARANCE CLEAR DISCHARGE(L/M) 15.00  
PRODUCING HORIZON QPL CONFIDENCE POSSIBLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION ELECTRIC CASING OTHER PIPE COMPOSITION GALVANIZED  
METERS FROM HEAD 6 W/H RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY CONSTANT  
DEPTH TO PROD HORIZON(M) 5 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER  
WELL DEPTH(M) 5 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 HALLSON 7.5' TOPO, SAMPLE TAKEN FROM FAUCET IN KITCHEN, WELL LOCATED 1M. WEST OF HOUSE (REAR);  
 1-60 ROW CROPS, PUMP;  
 1-78 S.T. HILLMAN & CAVALIER, NORTH DAKOTA & 58220;  
 3-20 CONCRETE;

606862 TYPE WELL WATER REPLICATE SAMPLER ADB AIR TEMP(C) + 24.0 WEATHER LT WIND-CLEAR  
 PHASE 2 MAP NM1412 SITE 0562 TIME TAKEN 11/16/07/79 RELIEF LOW VEGETATION DECIDUOUS-MODERATE  
 LOCATION: LAT 48.792( 48 47'31") LONG 97.814( 97 49'50") CONTAMINANTS AGRICULTURA  
 SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 2580 DISSOLVED OXYGEN(PPM) 4.4  
 WATER TEMP(C) + 14.2 VISIBILITY(M) CLEAR PH 6.9 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 600 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 600  
 APPEARANCE CLEAR DISCHARGE(L/M) 15.00 SOURCE GEOL. INFERENCE  
 PRODUCING HORIZON QTL CONFIDENCE POSSIBLE

WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION ELECTRIC CASING OTHER PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 95 WITH RESPECT TO PRESSURE TANK AFTER USE STOCK PUMPING FREQUENCY CONSTANT  
 DEPTH TO PROD HORIZON(M) 5 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH(M) 5 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 HALLSON 7.5' TOPO, SAMPLE TAKEN FROM OUTSIDE FAUCET ON WESTERN SIDE OF HOUSE, WELL LOCATED 95M. N. OF HOUSE JUST NORTH OF  
 GRAIN BINS;  
 1-60 ROW CROPS, PUMP;  
 1-78 SYLVIA STEVENSON & CAVALIER, NORTH DAKOTA & 58220;  
 3-20 CONCRETE;

606863 TYPE WELL WATER REPLICATE SAMPLER ADB AIR TEMP(C) + 25.0 WEATHER LT WIND-CLEAR  
 PHASE 2 MAP NM1412 SITE 0563 TIME TAKEN 11/16/07/79 RELIEF LOW VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.794( 48 47'38") LONG 97.913( 97 54'46") CONTAMINANTS AGRICULTURA  
 SURFACE GEOL UNIT QPL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 510 DISSOLVED OXYGEN(PPM) 4.4  
 WATER TEMP(C) + 11.3 VISIBILITY(M) CLEAR PH 7.5 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 301 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 301  
 APPEARANCE CLEAR DISCHARGE(L/M) 15.00 SOURCE GEOL. INFERENCE  
 PRODUCING HORIZON QSD CONFIDENCE POSSIBLE

WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION ELECTRIC CASING UNKNOWN PIPE COMPOSITION UNKNOWN  
 METERS FROM HEAD 8 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY CONSTANT  
 DEPTH TO PROD HORIZON(M) 5 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH(M) 5 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 HANKS CORNER 7.5' TOPO, SAMPLE TAKEN FROM OUTSIDE FAUCET ON SOUTH SIDE OF HOUSE, WELL LOCATED IN BASEMENT;  
 1-60 ROW CROPS, PUMP;  
 1-78 CARLTON HECK & HALHALLA, NORTH DAKOTA & 58282;

606864 TYPE WELL WATER REPLICATE SAMPLER ADB AIR TEMP (C) + 25.0 WEATHER LT WIND-CLEAR  
 PHASE 2 MAP NM1412 SITE 0564 TIME TAKEN 11/16/07/79 RELIEF LOW VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.802 (48 48' 7") LONG 97.954 (97 57' 14") CONTAMINANTS AGRICULTURA  
 SURFACE GEOL UNIT QPL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 370 DISSOLVED OXYGEN (PPM) 10.9  
 WATER TEMP (C) + 9.5 VISIBILITY (M) CLEAR PH 7.8 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 250 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 250  
 APPEARANCE CLEAR DISCHARGE (L/M) 15.00 SOURCE GEOL. INFERENCE  
 PRODUCING HORIZON QPG CONFIDENCE POSSIBLE

WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION ELECTRIC CASING OTHER PIPE COMPOSITION GALVANIZED  
 METERS FROM HEAD 9 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY CONSTANT  
 DEPTH TO PROD HORIZON (M) 12 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH (M) 12 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 HANKS CORNER 7.5' TOPO, SAMPLE TAKEN FROM FAUCET IN KITCHEN SINK, WELL LOCATED 2M. WEST OF HOUSE;  
 1-60 ROW CROPS, PUMP;  
 1-78 HOWARD HOFF & HALHALLA, NORTH DAKOTA & 58282;  
 3-20 CONCRETE;

606865 TYPE WELL WATER REPLICATE SAMPLER ADB AIR TEMP (C) + 26.0 WEATHER CALM-CLEAR  
 PHASE 2 MAP NM1412 SITE 0565 TIME TAKEN 12/16/07/79 RELIEF LOW VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.831 (48 49' 51") LONG 97.974 (97 58' 26") CONTAMINANTS AGRICULTURA  
 SURFACE GEOL UNIT QPL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 520 DISSOLVED OXYGEN (PPM) 8.9  
 WATER TEMP (C) + 13.5 VISIBILITY (M) CLEAR PH 7.8 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 250 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 250  
 APPEARANCE CLEAR DISCHARGE (L/M) 15.00 SOURCE GEOL. INFERENCE  
 PRODUCING HORIZON QPG CONFIDENCE POSSIBLE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING OTHER PIPE COMPOSITION GALVANIZED  
 METERS FROM HEAD 12 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY CONSTANT  
 DEPTH TO PROD HORIZON (M) 12 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH (M) 12 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 HANKS CORNER 7.5' TOPO, SAMPLE TAKEN FROM FAUCET IN KITCHEN SINK, WELL LOCATED 3M. SOUTH OF HOUSE;  
 1-60 ROW CROPS, PUMP;  
 1-78 WYNE KING & HALHALLA, NORTH DAKOTA & 58282;  
 3-20 CONCRETE;

606866 TYPE WELL WATER REPLICATE SAMPLER ADB AIR TEMP (C) + 26.0 WEATHER CALM-CLEAR  
 PHASE 2 MAP NM1412 SITE 0566 TIME TAKEN 12/16/07/79 RELIEF LOW VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.844 (48 50' 38") LONG 97.903 (97 54' 10") CONTAMINANTS AGRICULTURA  
 SURFACE GEOL UNIT QPL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY (MICROMHOS/CM)	580	DISSOLVED OXYGEN (PPM)	3.2
WATER TEMP (C)	+ 16.8	VISIBILITY (M)	CLEAR	PH 7.5	LO-ION PAPER
TOTAL ALKALINITY (PPM)	352	P ALKALINITY (PPM)	< 5	M ALKALINITY (PPM)	352
APPEARANCE	CLEAR	DISCHARGE (L/M)	30.00		
PRODUCING HORIZON	QPG	CONFIDENCE	POSSIBLE	SOURCE GEOL. INFERENCE	

WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING OTHER	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD	0	WITH RESPECT TO PRESSURE TANK	AFTER	USE HOUSE/STOCK	PUMPING FREQUENCY	CONSTANT
DEPTH TO PROD HORIZON (M)	20	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION OWNER		
WELL DEPTH (M)	20	CONFIDENCE OF WELL DEPTH	PROBABLE	SOURCE OF DEPTH INFORMATION OWNER		

REMARKS:

1-38 HANKS CORNER 7.5' TOPO, SAMPLE TAKEN FROM WELLHEAD LOCATED 9M. NORTH OF MAIN FARMHOUSE;  
 1-60 ROW CROPS, PUMP;  
 1-78 JOE SIMONSON & WALHALLA, NORTH DAKOTA & 58282;  
 3-20 CONCRETE;

606867 TYPE WELL WATER REPLICATE SAMPLER ADB AIR TEMP (C) + 26.0 WEATHER LT WIND-CLEAR  
 PHASE 2 MAP NM1412 SITE 0567 TIME TAKEN 13/16/07/79 RELIEF LOW VEGETATION DECIDUOUS-MODERATE  
 LOCATION: LAT 48.833 (48 49'58") LONG 97.804 (97 48'14") CONTAMINANTS AGRICULTURAL SAMPLE: COLOR - -CL ODOR NONE  
 SURFACE GEOL UNIT QSD RESULTS REQ YES, RELEASED 801031

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY (MICROMHOS/CM)	1290	DISSOLVED OXYGEN (PPM)	6.5
WATER TEMP (C)	+ 14.7	VISIBILITY (M)	CLEAR	PH 7.5	LO-ION PAPER
TOTAL ALKALINITY (PPM)	372	P ALKALINITY (PPM)	< 5	M ALKALINITY (PPM)	372
APPEARANCE	CLEAR	DISCHARGE (L/M)	15.00		
PRODUCING HORIZON	QSD	CONFIDENCE	POSSIBLE	SOURCE GEOL. INFERENCE	

WELL INFORMATION:

TYPE	DUG	POWER CLASSIFICATION	ELECTRIC	CASING OTHER	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD	12	WITH RESPECT TO PRESSURE TANK	AFTER	USE HOUSEHOLD	PUMPING FREQUENCY	CONSTANT
DEPTH TO PROD HORIZON (M)	5	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION OWNER		
WELL DEPTH (M)	5	CONFIDENCE OF WELL DEPTH	PROBABLE	SOURCE OF DEPTH INFORMATION OWNER		

REMARKS:

1-38, HALLSON 7.5' TOPO, SAMPLE TAKEN FROM OUTSIDE FAUCET ON NORTH SIDE OF HOUSE, WELL LOCATED 2M. SOUTH OF HOUSE;  
 1-60, ROW CROPS, PUMP;  
 1-78 SIG DALSTED & BACKOO, NORTH DAKOTA & 58215;  
 3-70 CONCRETE;

606868 TYPE WELL WATER REPLICATE SAMPLER ADB AIR TEMP (C) + 26.0 WEATHER CALM-CLEAR  
 PHASE 2 MAP NM1412 SITE 0568 TIME TAKEN 13/16/07/79 RELIEF LOW VEGETATION DECIDUOUS-MODERATE  
 LOCATION: LAT 48.839 (48 50'20") LONG 97.777 (97 46'37") CONTAMINANTS AGRICULTURAL SAMPLE: COLOR - -CL ODOR NONE  
 SURFACE GEOL UNIT QPL RESULTS REQ YES, RELEASED 801031

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY (MICROMHOS/CM)	580	DISSOLVED OXYGEN (PPM)	4.3
WATER TEMP (C)	+ 13.5	VISIBILITY (M)	CLEAR	PH 7.7	LO-ION PAPER
TOTAL ALKALINITY (PPM)	360	P ALKALINITY (PPM)	< 5	M ALKALINITY (PPM)	360
APPEARANCE	CLEAR	DISCHARGE (L/M)	20.00		

PRODUCING HORIZON OPL CONFIDENCE POSSIBLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION ELECTRIC CASING OTHER PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 3 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY CONSTANT  
 DEPTH TO PROD HORIZON(M) 4 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH(M) 4 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

J-38 HALLSON 7.5' TOPO, SAMPLE TAKEN FROM FAUCET IN KITCHEN, WELL LOCATED 1/2 SM. WEST OF HOUSE;  
 1-60, ROW CROPS, PUMP;  
 J-78 TIM KORPATNICKI & BACKOO, NORTH DAKOTA & 58215;  
 3-20 CONCRETE;

606869 TYPE WELL WATER REPLICATE SAMPLER ADB AIR TEMP(C) + 26.0 WEATHER LT WIND-CLEAR  
 PHASE 2 MAP NM1412 SITE 0569 TIME TAKEN 13/16/07/79 RELIEF LOW VEGETATION DECIDUOUS-MODERATE  
 LOCATION: LAT 48.881( 48 52'51") LONG 97.759( 97 45'32") CONTAMINANTS AGRICULTURA  
 SURFACE GEOL UNIT OPL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 990 DISSOLVED OXYGEN(PPM) 6.8  
 WATER TEMP(C) + 10.5 VISIBILITY(M) CLEAR PH 7.6 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 400 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 400  
 APPEARANCE CLEAR DISCHARGE(L/M) 15.00  
 PRODUCING HORIZON OPL CONFIDENCE POSSIBLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING OTHER PIPE COMPOSITION STEEL  
 METERS FROM HEAD 10 WITH RESPECT TO PRESSURE TANK AFTER USE STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON(M) 4 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH(M) 4 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

J-38 LEROY 7.5' TOPO, SAMPLE TAKEN FROM FAUCET WEST OF LARGE RED BARN, WELL LOCATED 1/2 SM. SW OF FAUCET;  
 1-60, STOCK, ROW CROPS, PUMP;  
 J-78 GARY LONGTIN & BACKOO, NORTH DAKOTA & 58215;  
 3-20 CONCRETE;

606870 TYPE WELL WATER REPLICATE SAMPLER ADB AIR TEMP(C) + 26.0 WEATHER LT WIND-CLEAR  
 PHASE 2 MAP NM1412 SITE 0570 TIME TAKEN 14/16/07/79 RELIEF LOW VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.878( 48 52'40") LONG 97.811( 97 48'39") CONTAMINANTS AGRICULTURA  
 SURFACE GEOL UNIT OPL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 2040 DISSOLVED OXYGEN(PPM) 3.4  
 WATER TEMP(C) + 13.5 VISIBILITY(M) CLEAR PH 7.5 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 913 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 913  
 APPEARANCE CLEAR DISCHARGE(L/M) 15.00  
 PRODUCING HORIZON OPL CONFIDENCE POSSIBLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION ELECTRIC CASING OTHER PIPE COMPOSITION UNKNOWN  
 METERS FROM HEAD 25 WITH RESPECT TO PRESSURE TANK AFTER USE STOCK PUMPING FREQUENCY CONSTANT



DEPTH TO PROD HORIZON(M) 3 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH(M) 3 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 LEROY 7.5' TOPO, SAMPLE TAKEN FROM FAUCET IN KITCHEN SINK, WELL LOCATED 15M. WEST OF HOUSE;  
 1-60, PUMP, ROW CROPS, RAILROAD;  
 1-78 MRS. TEOLA SAYLOR & BACKOO, NORTH DAKOTA & 58215;  
 3-20 CONCRETE;

606871 TYPE WELL WATER REPLICATE SAMPLER ADB AIR TEMP(C) + 26.0 WEATHER LT WIND-CLEAR  
 PHASE 2 MAP NM1412 SITE 0571 TIME TAKEN 14/16/07/79 RELIEF LOW VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.883( 48 52'58") LONG 97.898( 97 53'52") CONTAMINANTS AGRICULTURA  
 SURFACE GEOL UNIT QPL RESULTS REQ YES ,RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 390 DISSOLVED OXYGEN(PPM) 8.2  
 WATER TEMP(C) + 8.3 VISIBILITY(M) CLEAR PH 8.0 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 290 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 290  
 APPEARANCE CLEAR DISCHARGE(L/M) 30.00  
 PRODUCING HORIZON QPG CONFIDENCE POSSIBLE SOURCE GEOL INFERENCE

WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION ELECTRIC CASING OTHER PIPE COMPOSITION GALVANIZED  
 METERS FROM HEAD 0 WITH RESPECT TO PRESSURE TANK NONE USE HOUSEHOLD PUMPING FREQUENCY CONSTANT  
 DEPTH TO PROD HORIZON(M) 48 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH(M) 48 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 WALHALLA 7.5' TOPO, SAMPLE TAKEN FROM WELLHEAD IN SMALL WHITE SHED 25M. SSE OF HOUSE;  
 1-60 ROW CROPS, STOCK, PUMP;  
 1-78, HUBERT STRONG & WALHALLA, NORTH DAKOTA & 58282;  
 3-20 CONCRETE;

606872 TYPE WELL WATER REPLICATE SAMPLER ADB AIR TEMP(C) + 27.0 WEATHER LT WIND-CLEAR  
 PHASE 2 MAP NM1412 SITE 0572 TIME TAKEN 14/16/07/79 RELIEF LOW VEGETATION DECIDUOUS-MODERATE  
 LOCATION: LAT 48.875( 48 52'30") LONG 97.974( 97 58'26") CONTAMINANTS AGRICULTURA  
 SURFACE GEOL UNIT QPL RESULTS REQ YES ,RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 580 DISSOLVED OXYGEN(PPM) 8.1  
 WATER TEMP(C) + 12.0 VISIBILITY(M) CLEAR PH 7.8 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 290 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 290  
 APPEARANCE CLEAR DISCHARGE(L/M) 4.00  
 PRODUCING HORIZON QPG CONFIDENCE POSSIBLE SOURCE GEOL INFERENCE

WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION ELECTRIC CASING GALVANIZED PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 4 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY CONSTANT  
 DEPTH TO PROD HORIZON(M) 20 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH(M) 20 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 WALHALLA 7.5' TOPO, SAMPLE TAKEN FROM FAUCET 5M. EAST OF HOUSE, WELL LOCATED 4M. EAST OF FAUCET;

1-60, PUMP, ROW CROPS;

1-78 KARL KARTES &amp; WSLHALLA, NORTH DAKOTA &amp; 58282;

606873 TYPE WELL WATER REPLICATE SAMPLER ADB AIR TEMP(C) + 27.0 WEATHER LT WIND-CLEAR  
 PHASE 2 MAP NM1412 SITE 0573 TIME TAKEN 15/16/07/79 RELIEF LOW VEGETATION DECIDUOUS-MODERATE  
 LOCATION: LAT 48.936 (48 56' 9") LONG 97.958 (97 57' 28") CONTAMINANTS AGRICULTURA  
 SURFACE GEOL UNIT QPL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 670 DISSOLVED OXYGEN(PPM) 8.8  
 WATER TEMP(C) + 13.3 VISIBILITY(M) CLEAR PH 7.7 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 270 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 270  
 APPEARANCE CLEAR DISCHARGE(L/M) 20.00  
 PRODUCING HORIZON QPL CONFIDENCE POSSIBLE SOURCE GEOL INFERENCE

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING OTHER PIPE COMPOSITION GALVANIZED  
 METERS FROM HEAD 15 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY CONSTANT  
 DEPTH TO PROD HORIZON(M) 6 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH(M) 6 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

## REMARKS:

1-38 WALHALLA 7.5' TOPO, SAMPLE TAKEN FROM KITCHEN SINK FAUCET, WELL LOCATED 11M. SSW. OF HOUSE;

1-60, STOCK, ROW CROPS, PUMP;

1-78 ROBERT URLAUB WALHALLA, NORTH DAKOTA &amp; 58282;

3-20 BRICK;

606874 TYPE WELL WATER REPLICATE SAMPLER ADB AIR TEMP(C) + 27.0 WEATHER LT WIND-CLEAR  
 PHASE 2 MAP NM1412 SITE 0574 TIME TAKEN 16/16/07/79 RELIEF LOW VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.932 (48 55' 55") LONG 97.905 (97 54' 18") CONTAMINANTS AGRICULTURA  
 SURFACE GEOL UNIT QAL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 530 DISSOLVED OXYGEN(PPM) 8.7  
 WATER TEMP(C) + 16.9 VISIBILITY(M) CLEAR PH 7.9 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 280 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 280  
 APPEARANCE CLEAR DISCHARGE(L/M) 12.00  
 PRODUCING HORIZON QAL CONFIDENCE POSSIBLE SOURCE GEOL INFERENCE

## WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION ELECTRIC CASING OTHER PIPE COMPOSITION UNKNOWN  
 METERS FROM HEAD 30 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY CONSTANT  
 DEPTH TO PROD HORIZON(M) 6 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 6 CONFIDENCE OF WELL DEPTH POSSIBLE SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

## REMARKS:

1-38 WALHALLA 7.5' TOPO, SAMPLE TAKEN FROM OUTSIDE REAR FAUCET (EAST), WELL LOCATED 6M. WEST OF HOUSE;

1-60, ROW CROPS, AIRPORT, JOHN;

1-78 LEONARD URLAUB &amp; WALHALLA, NORTH DAKOTA &amp; 58282;

3-20 CONCRETE;

606875 TYPE WELL WATER REPLICATE SAMPLER ADB AIR TEMP(C) + 27.0 WEATHER LT WIND-CLEAR  
 PHASE 2 MAP NM1412 SITE 0575 TIME TAKEN 16/16/07/79 RELIEF LOW VEGETATION DECIDUOUS-MODERATE  
 LOCATION: LAT 48.934 (48 56' 2") LONG 97.812 (97 48' 43") CONTAMINANTS AGRICULTURA  
 SURFACE GEOL UNIT QAL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 880 DISSOLVED OXYGEN (PPM) 4.6  
 WATER TEMP (C) + 11.2 VISIBILITY (M) CLEAR PH 7.6 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 480 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 480  
 APPEARANCE CLEAR DISCHARGE (L/M) 20.00  
 PRODUCING HORIZON QAL CONFIDENCE POSSIBLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION ELECTRIC CASING OTHER PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 12 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY CONSTANT  
 DEPTH TO PROD HORIZON (M) 3 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH (M) 3 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 LEROY 7.5' TOPO, SAMPLE TAKEN FROM FAUCET IN KITCHEN SINK, WELL LOCATED 5M. N. OF HOUSE;  
 1-60, STOCK, ROW CROPS, RIVER, PUMP;  
 1-78 RANDALL MELAAS & HALHALLA, NORTH DAKOTA & 58282;  
 3-20 CONCRETE;

606876 TYPE WELL WATER REPLICATE SAMPLER ADB AIR TEMP(C) + 27.0 WEATHER LT WIND-CLEAR  
 PHASE 2 MAP NM1412 SITE 0576 TIME TAKEN 16/16/07/79 RELIEF LOW VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.934 (48 56' 2") LONG 97.750 (97 45' 0") CONTAMINANTS AGRICULTURA  
 SURFACE GEOL UNIT QAL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 1260 DISSOLVED OXYGEN (PPM) 3.3  
 WATER TEMP (C) + 13.7 VISIBILITY (M) CLEAR PH 7.5 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 350 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 350  
 APPEARANCE CLEAR DISCHARGE (L/M) 10.00  
 PRODUCING HORIZON QAL CONFIDENCE POSSIBLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION ELECTRIC CASING GALVANIZED PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 12 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY CONSTANT  
 DEPTH TO PROD HORIZON (M) 9 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH (M) 9 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 LEROY 7.5' TOPO, SAMPLE TAKEN FROM FAUCET AT KITCHEN SINK, WELL LOCATED 3M. EAST OF HOUSE;  
 1-60, ROW CROPS, RIVER;  
 1-78 CLARENCE BJORNSTAD & HALHALLA, NORTH DAKOTA & 58282;

606877 TYPE WELL WATER REPLICATE SAMPLER ADB AIR TEMP(C) + 27.0 WEATHER LT WIND-CLEAR  
 PHASE 2 MAP NM1412 SITE 0577 TIME TAKEN 17/16/07/79 RELIEF LOW VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.968 (48 58' 4") LONG 97.755 (97 45' 18") CONTAMINANTS AGRICULTURA  
 SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE	CONDUCTIVITY (MICROMHOS/CM)	1030	DISSOLVED OXYGEN (PPM)	6.2
WATER TEMP (C) + 7.3	VISIBILITY (M)	CLEAR	PH 8.0 LO-ION PAPER	
TOTAL ALKALINITY (PPM) 600	P ALKALINITY (PPM) <5		M ALKALINITY (PPM) 600	
APPEARANCE CLEAR	DISCHARGE (L/M) 0.00		SOURCE GEOL. INFERENCE	
PRODUCING HORIZON OPG	CONFIDENCE POSSIBLE			

WELL INFORMATION:				
TYPE DUG	POWER CLASSIFICATION HAND	CASING OTHER	PIPE COMPOSITION OTHER	
METERS FROM HEAD 0	WITH RESPECT TO PRESSURE TANK NONE	USE NONE	PUMPING FREQUENCY RARE	
DEPTH TO PROD HORIZON (M) 9	CONFIDENCE OF PRODUCING DEPTH PROBABLE	SOURCE OF PRODUCING INFORMATION	OWNER	
WELL DEPTH (M) 9	CONFIDENCE OF WELL DEPTH PROBABLE	SOURCE OF DEPTH INFORMATION	OWNER	

REMARKS:  
 1-38 LEROY 7.5' TOPO, SAMPLE TAKEN FROM WELL LOCATED ON NORTHERN SIDE, INSIDE LARGE GREY BARN;  
 1-60, ROW CROPS;  
 1-78, WALTER MILLAR & WALHALLA, NORTH DAKOTA & 58282;  
 3-20, CONCRETE + WOOD;  
 3-21, NO PIPE;

606878 TYPE WELL WATER REPLICATE SAMPLER ADB AIR TEMP (C) + 27.0 WEATHER CALM-CLEAR  
 PHASE 2 MAP NM1412 SITE 0578 TIME TAKEN 17/16/07/79 RELIEF LOW VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.979 (48 58'44") LONG 97.905 (97 54'18") CONTAMINANTS AGRICULTURA  
 SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:				
TREATMENT NONE	CONDUCTIVITY (MICROMHOS/CM)	1980	DISSOLVED OXYGEN (PPM)	8.4
WATER TEMP (C) + 9.4	VISIBILITY (M)	CLEAR	PH 7.9 LO-ION PAPER	
TOTAL ALKALINITY (PPM) 490	P ALKALINITY (PPM) <5		M ALKALINITY (PPM) 490	
APPEARANCE CLEAR	DISCHARGE (L/M) 12.00		SOURCE GEOL. INFERENCE	
PRODUCING HORIZON OPG	CONFIDENCE POSSIBLE			

WELL INFORMATION:				
TYPE DRILLED	POWER CLASSIFICATION ELECTRIC	CASING OTHER	PIPE COMPOSITION PLASTIC	
METERS FROM HEAD 0	WITH RESPECT TO PRESSURE TANK AFTER	USE STOCK	PUMPING FREQUENCY FREQUENT	
DEPTH TO PROD HORIZON (M) 21	CONFIDENCE OF PRODUCING DEPTH PROBABLE	SOURCE OF PRODUCING INFORMATION	OWNER	
WELL DEPTH (M) 21	CONFIDENCE OF WELL DEPTH PROBABLE	SOURCE OF DEPTH INFORMATION	OWNER	

REMARKS:  
 1-38 WALHALLA 7.5' TOPO, SAMPLE TAKEN FROM WELL 3M. WEST OF GARAGE;  
 1-60, STOCK, ROW CROPS, PUMP;  
 1-78 ELMER TESMER & WALHALLA, NORTH DAKOTA & 58282;  
 3-20 CONCRETE;

606879 TYPE WELL WATER REPLICATE SAMPLER ADB AIR TEMP (C) + 27.0 WEATHER CALM-CLEAR  
 PHASE 2 MAP NM1412 SITE 0579 TIME TAKEN 18/16/07/79 RELIEF LOW VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.977 (48 58'37") LONG 97.994 (97 59'38") CONTAMINANTS AGRICULTURA  
 SURFACE GEOL UNIT QPL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:				
TREATMENT NONE	CONDUCTIVITY (MICROMHOS/CM)	5520	DISSOLVED OXYGEN (PPM)	4.2
WATER TEMP (C) + 11.5	VISIBILITY (M)	CLEAR	PH 7.6 LO-ION PAPER	
TOTAL ALKALINITY (PPM) 504	P ALKALINITY (PPM) <5		M ALKALINITY (PPM) 504	
APPEARANCE CLEAR	DISCHARGE (L/M) 5.00		SOURCE GEOL. INFERENCE	
PRODUCING HORIZON OPG	CONFIDENCE POSSIBLE			

PRODUCING HORIZON      OPG      CONFIDENCE      POSSIBLE      SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE      DRILLED      POWER CLASSIFICATION      ELECTRIC      CASING OTHER      PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD      12      WITH RESPECT TO PRESSURE TANK      AFTER      USE      HOUSEHOLD      PUMPING FREQUENCY CONSTANT  
 DEPTH TO PROD HORIZON(M)      18      CONFIDENCE OF PRODUCING DEPTH      PROBABLE      SOURCE OF PRODUCING INFORMATION      OWNER  
 WELL DEPTH(M)      18      CONFIDENCE OF WELL DEPTH      PROBABLE      SOURCE OF DEPTH INFORMATION      OWNER

REMARKS:

J-38 HALHALLA 7.5' TOPO, SAMPLE TAKEN FROM KITCHEN SINK FAUCET, WELL LOCATED 4M. WEST OF HOUSE;  
 1-60, STOCK, ROW CROPS, PUMP;  
 J-78 RICHARD BREAGET & HALHALLA, NORTH DAKOTA & 58282;  
 3-20 CONCRETE;

60680 TYPE STREAM SEDIMENT      REPLICATE      SAMPLER ADB      AIR TEMP(C) + 25.0      WEATHER CALM-CLEAR  
 PHASE 2      MAP NM1412      SITE 0580      TIME TAKEN 11/19/07/79      RELIEF FLAT      VEGETATION GRASS-DENSE  
 LOCATION: LAT 48.216( 48 12'57")      LONG 96.716( 96 42'57")      CONTAMINANTS AGRICULTURA      STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT      QTL      RESULTS REQ NO      ,RELEASED 801031      WATER: WIDTH(M)      DEPTH(M)      LEVEL DRY  
 BED MATERIAL SAND      SAMPLE: COLOR D-BK-GY      ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY      SAMPLE TREATMENT NONE      NUMBER OF GRABS 8      ORGANIC MATERIAL(%) 15

REMARKS:

1-38 ROAN 7.5' TOPO, SAMPLE TAKEN 25M. UPSTREAM OF ROAD, 20M. INTERVAL FROM APPARENT SOUTHERLY BEND IN BED;  
 J-60, SOIL, ROW CROPS (NOTE-STREAM BED PLOWED UNDER INTO CULTIVATED WHEAT FIELD);

60681 TYPE STREAM SEDIMENT      REPLICATE      SAMPLER ADB      AIR TEMP(C) + 25.0      WEATHER CALM-PT CLDY  
 PHASE 2      MAP NM1412      SITE 0581      TIME TAKEN 11/19/07/79      RELIEF FLAT      VEGETATION GRASS-DENSE  
 LOCATION: LAT 48.227( 48 13'37")      LONG 96.738( 96 44'16")      CONTAMINANTS AGRICULTURA      STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT      QTL      RESULTS REQ NO      ,RELEASED 801031      WATER: WIDTH(M)      DEPTH(M)      LEVEL DRY  
 BED MATERIAL SAND      SAMPLE: COLOR D-GY-BK      ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY      SAMPLE TREATMENT NONE      NUMBER OF GRABS 7      ORGANIC MATERIAL(%) 15

REMARKS:

J-38 ROAN 7.5' TOPO, SAMPLE TAKEN 25M. UPSTREAM OF ROAD, 20M. INTERVAL FROM JUST APPARENT SOUTHERLY BEND IN BED;  
 1-60, SOIL, ROW CROPS (NOTE-STREAM BED PLOWED UNDER INTO CULTIVATED WHEAT FIELDS);

60682 TYPE STREAM SEDIMENT      REPLICATE      SAMPLER ADB      AIR TEMP(C) + 26.0      WEATHER CALM-PT CLDY  
 PHASE G      MAP NM1412      SITE 0582      TIME TAKEN 12/19/07/79      RELIEF FLAT      VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.197( 48 11'49")      LONG 96.655( 96 39'18")      CONTAMINANTS AGRICULTURA      STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT      QTL      RESULTS REQ NO      ,RELEASED 801031      WATER: WIDTH(M)      DEPTH(M)      LEVEL DRY  
 BED MATERIAL SAND      SAMPLE: COLOR D-GY-BK      ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY      SAMPLE TREATMENT NONE      NUMBER OF GRABS 8      ORGANIC MATERIAL(%) 30

REMARKS:

1-38 ROAN 7.5' TOPO, SAMPLE TAKEN 25M. UPSTREAM OF ROAD, 20M. INTERVAL FROM WIDE EASTERLY BEND IN BED;

I-60, STOCK, SOIL, ROW CROPS:

606883 TYPE STREAM SEDIMENT REPLICATE SAMPLER ADB AIR TEMP(C) + 26.0 WEATHER LT WIND-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0583 TIME TAKEN 12/19/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.209 (48 12' 32") LONG 96.597 (96 35' 49") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT QPG RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL SILT SAMPLE: COLOR D-GY-BK ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL (%) 35

REMARKS:

I-38 RADIUM 7.5' TOPO, SAMPLE TAKEN 30M. UPSTREAM OF ROAD, 20M. INTERVAL FROM 1ST APPARENT POOL:  
 I-60, SOIL, ROW CROPS:

606884 TYPE STREAM SEDIMENT REPLICATE SAMPLER ADB AIR TEMP(C) + 27.0 WEATHER LT WIND-PT CLDY  
 PHASE G MAP NM1412 SITE 0584 TIME TAKEN 13/19/07/79 RELIEF FLAT VEGETATION GRASS-DENSE  
 LOCATION: LAT 48.226 (48 13' 33") LONG 96.564 (96 33' 50") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) 2.00 DEPTH(M) 1.00 LEVEL NORMAL  
 BED MATERIAL SAND SAMPLE: COLOR M-YL-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 20

REMARKS:

I-38 RADIUM 7.5' TOPO, SAMPLE TAKEN 35M. UPSTREAM OF ROAD, 20M. INTERVAL FROM WIDE EASTERLY BEND IN BED:  
 I-60, SOIL, ROW CROPS:

606885 TYPE STREAM SEDIMENT REPLICATE SAMPLER ADB AIR TEMP(C) + 27.0 WEATHER LT WIND-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0585 TIME TAKEN 13/19/07/79 RELIEF FLAT VEGETATION GRASS-DENSE  
 LOCATION: LAT 48.121 (48 7' 15") LONG 96.724 (96 43' 26") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) STAG  
 SURFACE GEOL UNIT QTL RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) 2.00 DEPTH(M) 0.25 LEVEL POOLS  
 BED MATERIAL CLAY SAMPLE: COLOR D-GY-BK ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 35

REMARKS:

I-38 ANGUS 7.5' TOPO, SAMPLE TAKEN 25M. UPSTREAM OF RAILROAD BED, 20M. INTERVAL FROM 1ST POOL:  
 I-60, SOIL, ROW CROPS (NOTE-STREAM BED PLOWED UNDER INTQ CULTIVATED WHEAT FIELD):

606886 TYPE STREAM SEDIMENT REPLICATE SAMPLER ADB AIR TEMP(C) + 27.0 WEATHER LT WIND-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0586 TIME TAKEN 13/19/07/79 RELIEF FLAT VEGETATION GRASS-DENSE  
 LOCATION: LAT 48.102 (48 6' 7") LONG 96.711 (96 42' 39") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) STAG  
 SURFACE GEOL UNIT QTL RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) 5.00 DEPTH(M) 0.25 LEVEL POOLS  
 BED MATERIAL SILT SAMPLE: COLOR D-GY-BK ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 45

REMARKS:

1-38 ANGUS 7.5' TOPO, SAMPLE TAKEN 35M. UPSTREAM OF RAILROAD BED, 20M INTERVAL FROM 1ST POOL;  
 1-60 SOIL, ROW CROPS;

606887 TYPE STREAM SEDIMENT REPLICATE SAMPLER ADB AIR TEMP(C) + 27.0 WEATHER LT WIND-PT CLDY  
 PHASE 6 MAP NM1412 SITE 0587 TIME TAKEN 13/19/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.044 ( 48 2'38" ) LONG 96.715 ( 96 42'54" ) CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT QTL RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL SILT SAMPLE: COLOR D-GY-BK ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 35

REMARKS:

1-38 ANGUS 7.5' TOPO, SAMPLE TAKEN 30M UPSTREAM OF ROAD, 20M INTERVAL FROM BURNED TREE TRUNKS;  
 1-60 SOIL, ROW CROPS, HOUSEHOLD REFUSE;

606888 TYPE STREAM SEDIMENT REPLICATE SAMPLER ADB AIR TEMP(C) + 28.0 WEATHER LT WIND-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0588 TIME TAKEN 14/19/07/79 RELIEF FLAT VEGETATION GRASS-DENSE  
 LOCATION: LAT 48.046 ( 48 2'45" ) LONG 96.680 ( 96 40'48" ) CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) STAG  
 SURFACE GEOL UNIT QTL RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) 4.00 DEPTH(M) 0.25 LEVEL POOLS  
 BED MATERIAL SILT SAMPLE: COLOR D-GY-BK ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 45

REMARKS:

1-38 ANGUS 7.5' TOPO, SAMPLE TAKEN 40M UPSTREAM OF RAILROAD BED, 20M. INTERVAL FROM SOUTHERLY BEND IN BED;  
 1-60 SOIL, ROW CROPS;

606889 TYPE STREAM SEDIMENT REPLICATE SAMPLER ADB AIR TEMP(C) + 28.0 WEATHER LT WIND-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0589 TIME TAKEN 14/19/07/79 RELIEF FLAT VEGETATION GRASS-DENSE  
 LOCATION: LAT 48.001 ( 48 0' 3" ) LONG 96.611 ( 96 36'39" ) CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) STAG  
 SURFACE GEOL UNIT QPG RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) 2.00 DEPTH(M) 0.25 LEVEL POOLS  
 BED MATERIAL CLAY SAMPLE: COLOR D-GY-BK ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 45

REMARKS:

1-38 ANGUS SE 7.5' TOPO, SAMPLE TAKEN 25M UPSTREAM OF ROAD, 20M INTERVAL FROM 1ST POOL;  
 1-60 ROW CROPS, SOIL

606890 TYPE STREAM SEDIMENT REPLICATE SAMPLER ADB AIR TEMP(C) + 28.0 WEATHER LT WIND-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0590 TIME TAKEN 14/19/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.028 ( 48 1'40" ) LONG 96.391 ( 96 23'27" ) CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT QPG RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL SILT SAMPLE: COLOR D-GY-BK ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 25

## REMARKS:

1-38 VIKING SW 7.5' TOPO, SAMPLE TAKEN 25M UPSTREAM OF ROAD, 20M INTERVAL FROM BOUNDARY OF CULTIVATED FIELD;  
1-60 SOIL, ROW CROPS, (NOTE-STREAM BED PLOWED UNDER INTO CULTIVATED WHEAT FIELDS):

606891 TYPE STREAM SEDIMENT REPLICATE SAMPLER ADB AIR TEMP(C) + 28.0 WEATHER LT WIND-PT CLDY  
PHASE 2 MAP NM1412 SITE 0591 TIME TAKEN 14/19/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
LOCATION: LAT 48.083 (48 4'58") LONG 96.413 (96 24'46") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)  
WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
SURFACE GEOL UNIT QPG RESULTS REQ NO ,RELEASED 801031 BED MATERIAL SILT SAMPLE: COLOR D-GY-BK ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 25

## REMARKS:

1-38 VIKING SW 7.5' TOPO, SAMPLE TAKEN 35M UPSTREAM OF ROAD, 20M INTERVAL FROM TRACTOR TRACKS;  
1-60 SOIL, ROW CROPS, EXCAVATION:

606892 TYPE STREAM SEDIMENT REPLICATE SAMPLER ADB AIR TEMP(C) + 28.0 WEATHER LT WIND-CLEAR  
PHASE 2 MAP NM1412 SITE 0592 TIME TAKEN 15/19/07/79 RELIEF FLAT VEGETATION BRUSH-MODERATE  
LOCATION: LAT 48.110 (48 6'36") LONG 96.435 (96 26' 6") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)  
WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
SURFACE GEOL UNIT QPG RESULTS REQ NO ,RELEASED 801031 BED MATERIAL SAND SAMPLE: COLOR D-GY-BK ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 25

## REMARKS:

1-38 VIKING SW 7.5' TOPO, SAMPLE TAKEN 25M UPSTREAM OF ROAD, 20M INTERVAL FROM 2ND GRASSY POOL AREA;  
1-60 SOIL, ROW CROPS, EXCAVATION:

606893 TYPE STREAM SEDIMENT REPLICATE SAMPLER ADB AIR TEMP(C) + 28.0 WEATHER LT WIND-PT CLDY  
PHASE G MAP NM1412 SITE 0593 TIME TAKEN 15/19/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
LOCATION: LAT 48.093 (48 5'34") LONG 96.439 (96 26'20") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) NONE  
WATER: WIDTH(M) 4.00 DEPTH(M) 1.00 LEVEL LOW  
SURFACE GEOL UNIT QPG RESULTS REQ NO ,RELEASED 801031 BED MATERIAL SAND SAMPLE: COLOR M-GY-YL ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 20

## REMARKS:

1-38 VIKING SW 7.5' TOPO, SAMPLE TAKEN 30M UPSTREAM OF ROAD, 20M INTERVAL FROM LARGE BUSH ON WEST BANK;  
1-60 SOIL, ROW CROPS:

606895 TYPE STREAM SEDIMENT REPLICATE SAMPLER ADB AIR TEMP(C) + 28.0 WEATHER LT WIND-PT CLDY  
PHASE 2 MAP NM1412 SITE 0595 TIME TAKEN 15/19/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
LOCATION: LAT 48.161 (48 9'39") LONG 96.443 (96 26'34") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) STAG



SURFACE GEOL UNIT QTL RESULTS REQ NO ,RELEASED 801031

WATER: WIDTH(M) 1.00  
BED MATERIAL SANDDEPTH(M) 0.25 LEVEL POOLS  
SAMPLE: COLOR M-GY-BK ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 30

## REMARKS:

1-38 VIKING 7.5' TOPO, SAMPLE TAKEN 25M UPSTREAM OF ROAD 20M INTERVAL FROM 1ST EASTERLY BEND IN BED;  
1-60 SOIL, ROW CROPS;606896 TYPE STREAM SEDIMENT REPLICATE SAMPLER ADB  
PHASE 2 MAP NM1412 SITE 0596 TIME TAKEN 15/19/07/79  
LOCATION: LAT 48.182( 48 10'55") LONG 96.440( 96 26'24")AIR TEMP(C) + 28.0 WEATHER LT WIND-PT CLDY  
RELIEF FLAT VEGETATION GRASS-DENSE  
CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) STAG  
WATER: WIDTH(M) 2.00 DEPTH(M) 0.25 LEVEL POOLS  
BED MATERIAL SILT SAMPLE: COLOR D-GY-BK ODOR NONE

SURFACE GEOL UNIT QTL RESULTS REQ NO ,RELEASED 801031

## SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 45

## REMARKS:

1-38 VIKING 7.5' TOPO, SAMPLE TAKEN 25M UPSTREAM OF ROAD, 20M INTERVAL FROM BREAK IN GROVE OF TREES;  
1-60 SOIL, ROW CROPS;606897 TYPE STREAM SEDIMENT REPLICATE SAMPLER ADB  
PHASE 2 MAP NM1412 SITE 0597 TIME TAKEN 15/17/07/79  
LOCATION: LAT 48.220( 48 13'12") LONG 96.455( 96 27'18")AIR TEMP(C) + 28.0 WEATHER LT WIND-PT CLDY  
RELIEF FLAT VEGETATION GRASS-DENSE  
CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) NONE  
WATER: WIDTH(M) 2.00 DEPTH(M) 0.50 LEVEL LOW  
BED MATERIAL SAND SAMPLE: COLOR D-GY-BK ODOR NONE

SURFACE GEOL UNIT QTL RESULTS REQ NO ,RELEASED 801031

## SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 35

## REMARKS:

1-38 VIKING 7.5' TOPO, SAMPLE TAKEN 50M UPSTREAM OF ROAD, 20M INTERVAL FROM SOUTHERLY BEND IN BED;  
1-60 SOIL, ROW CROPS, PUMPING STATION;606901 TYPE SPRING WATER REPLICATE SAMPLER RLB  
PHASE 2 MAP NM1412 SITE 0601 TIME TAKEN 12/12/07/79  
LOCATION: LAT 48.016( 48 0'57") LONG 97.283( 97 16'58")AIR TEMP(C) + 28.0 WEATHER CALM-OVERCAST  
RELIEF LOW VEGETATION DECIDUOUS-MODERATE  
CONTAMINANTS AGRICULTURA  
WATER: WIDTH(M) 2.00 DEPTH(M) 0.50 LEVEL LOW  
BED MATERIAL SAND SAMPLE: COLOR -CL ODOR H2S

SURFACE GEOL UNIT QAL RESULTS REQ YES ,RELEASED 801031

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 3620 DISSOLVED OXYGEN(PPM) 1.8  
WATER TEMP(C) + 9.5 VISIBILITY(M) CLEAR PH 7.4 LO-ION PAPER  
TOTAL ALKALINITY(PPM) 342 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 354  
APPEARANCE CLEAR DISCHARGE(L/M) 1.00  
PRODUCING HORIZON QAL CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

## WELL INFORMATION:

TYPE OTHER POWER CLASSIFICATION OTHER CASING OTHER PIPE COMPOSITION OTHER  
METERS FROM HEAD 0 WITH RESPECT TO PRESSURE TANK NONE USE NONE PUMPING FREQUENCY CONSTANT

DEPTH TO PROD HORIZON(M)	1	CONFIDENCE OF PRODUCING DEPTH POSSIBLE	SOURCE OF PRODUCING INFORMATION	GEOL. INFERENCE
WELL DEPTH(M)	1	CONFIDENCE OF WELL DEPTH	SOURCE OF DEPTH INFORMATION	GEOL. INFERENCE

REMARKS:

1-38 MEKINOCK 7.5' MAP, SAMPLE FROM SPRING 90M W OF HOUSE, SPRING 30M N OF RIVER;  
 1-60 SUN FLOWERS GROWN IN FIELDS;  
 1-78 JAMES PETERSON & MEKINOCK, N.D. 58258;  
 3-18, #3-19, #3-20, #3-21 SPRING WATER NO PIPES;

606903	TYPE	STREAM SEDIMENT	REPLICATE	SAMPLER	RLB	AIR TEMP(C)	+ 28.0	WEATHER	CALM-OVERCAST							
	PHASE	G	MAP	NM1412	SITE	0603	TIME TAKEN	13/12/07/79	RELIEF	LOW	VEGETATION	DECIDUOUS-MODERATE				
	LOCATION:	LAT	48.015( 48 0'54")	LONG	97.283( 97 16'58")	CONTAMINANTS	AGRICULTURA	STREAM FLOW(M/SEC)	0.10	WATER:	WIDTH(M)	3.00	DEPTH(M)	0.50	LEVEL	NORMAL
	SURFACE GEOL UNIT	QAL	RESULTS REQ NO	RELEASED	801031	BED MATERIAL	SILT	SAMPLE:	COLOR	M-BK-GY	ODOR	NONE				

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 30

REMARKS:

1-38 MEKINOCK 7.5' MAP, SAMPLE TAKEN 40M UPSTREAM OF BRIDGE, START WITH TREE ON N BANK, OVER 13M INTERVAL;  
 1-60 SUNFLOWERS;

606904	TYPE	STREAM SEDIMENT	REPLICATE	SAMPLER	RLB	AIR TEMP(C)	+ 28.0	WEATHER	CALM-OVERCAST							
	PHASE	2	MAP	NM1412	SITE	0604	TIME TAKEN	14/12/07/79	RELIEF	LOW	VEGETATION	DECIDUOUS-DENSE				
	LOCATION:	LAT	48.018( 48 1' 4")	LONG	97.338( 97 20' 16")	CONTAMINANTS	OTHER	STREAM FLOW(M/SEC)	NONE	WATER:	WIDTH(M)	1.00	DEPTH(M)	0.20	LEVEL	LOW
	SURFACE GEOL UNIT	QAL	RESULTS REQ NO	RELEASED	801031	BED MATERIAL	SILT	SAMPLE:	COLOR	M-BK-GY	ODOR	NONE				

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 20

REMARKS:

1-38 MEKINOCK 7.5' MAP, SAMPLE TAKEN 20M W OF HOUSE, START AT CLUMP OF TREES, OVER 13M INTERVAL;  
 1-60 RAILROAD TRACK 1KM UPSTREAM;

606905	TYPE	WELL WATER	REPLICATE	SAMPLER	RLB	AIR TEMP(C)	+ 29.0	WEATHER	CALM-OVERCAST			
	PHASE	2	MAP	NM1412	SITE	0605	TIME TAKEN	15/12/07/79	RELIEF	LOW	VEGETATION	DECIDUOUS-DENSE
	LOCATION:	LAT	48.020( 48 1' 12")	LONG	97.329( 97 19' 44")	CONTAMINANTS	OTHER	SAMPLE:	COLOR	-CL	ODOR	NONE
	SURFACE GEOL UNIT	QAL	RESULTS REQ YES	RELEASED	801031							

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	4700	DISSOLVED OXYGEN(PPM)	2.3
WATER TEMP(C)	+ 13.2	VISIBILITY(M)	CLEAR	PH	7.7 LO-ION PAPER
TOTAL ALKALINITY(PPM)	580	P ALKALINITY(PPM)	45	M ALKALINITY(PPM)	128
APPEARANCE	CLEAR	DISCHARGE(L/M)	15.00		
PRODUCING HORIZON	QTL	CONFIDENCE	PROBABLE	SOURCE	GEOL. INFERENCE

WELL INFORMATION:

TYPE	DUG	POWER CLASSIFICATION	ELECTRIC	CASING	OTHER	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD	5	WITH RESPECT TO PRESSURE TANK	NONE	USE	STACK	PUMPING FREQUENCY	FREQUENT
DEPTH TO PROD HORIZON(M)	3	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	OWNER		

WELL DEPTH(M) 3 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 MEKINOCK 7.5' MAP, SAMPLE FROM FAUCET ON NE SIDE OF HOUSE, WELL N OF HOUSE;  
 1-60 PLASTIC HOSE;  
 1-78 BRYAN MOORE & MEKINOCK, N.D. 58258;  
 3-20 CONCRETE CASING;

606906 TYPE STREAM SEDIMENT REPLICATE SAMPLER RLB AIR TEMP(C) + 30.0 WEATHER CALM-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0606 TIME TAKEN 15/12/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.032( 48 1'55") LONG 97.319( 97 19' 8") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) STAG  
 WATER: WIDTH(M) 1.00 DEPTH(M) 0.10 LEVEL POOLS  
 SURFACE GEOL UNIT QAL RESULTS REQ NO ,RELEASED 801031 BED MATERIAL CLAY SAMPLE: COLOR M-GY-BK ODOR OTHER

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 30

REMARKS:

1-38 MEKINOCK 7.5' MAP, SAMPLE TAKEN 30M UPSTREAM OF ROAD, START UPSTREAM OF POOL, OVER 20M INTERVAL;  
 1-60 FROM A WHEAT FIELD;  
 1-77 FERTILIZER OR INSECTICIDE;

606907 TYPE STREAM SEDIMENT REPLICATE SAMPLER RLB AIR TEMP(C) + 29.0 WEATHER CALM-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0607 TIME TAKEN 15/22/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.043( 48 2'34") LONG 97.326( 97 19'33") CONTAMINANTS NONE STREAM FLOW(M/SEC) NONE  
 WATER: WIDTH(M) 1.00 DEPTH(M) 0.20 LEVEL LOW  
 SURFACE GEOL UNIT QAL RESULTS REQ NO ,RELEASED 801031 BED MATERIAL SILT SAMPLE: COLOR M-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 40

REMARKS:

1-38 MEKINOCK 7.5' MAP, SAMPLE TAKEN 50M UPSTREAM OF INTERSECTION, START AT POOL, OVER 20M INTERVAL;

606908 TYPE WELL WATER REPLICATE SAMPLER RLB AIR TEMP(C) + 29.0 WEATHER LT WIND-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0608 TIME TAKEN 15/12/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.057( 48 3'25") LONG 97.297( 97 17'49") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QAL RESULTS REQ NO ,RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 4670 DISSOLVED OXYGEN(PPM) 2.6  
 WATER TEMP(C) + 8.5 VISIBLITY(M) CLEAR PH 9.5 LD-JON PAPER  
 TOTAL ALKALINITY(PPM) 134 P ALKALINITY(PPM) 182 M ALKALINITY(PPM) 182  
 APPEARANCE CLEAR DISCHARGE(L/M) 20.00  
 PRODUCING HORIZON OPG CONFIDENCE HIGH SOURCE PUBLICATION

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ARTESIAN CASING STEEL PIPE COMPOSITION STEEL  
 METERS FROM HEAD 1 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY RARE  
 DEPTH TO PROD HORIZON(M) 43 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION GEOL INFERENCE  
 WELL DEPTH(M) 43 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 MEKINOCK 7.5' MAP, NO ADDRESS, SAMPLE FROM FAUCET ON PIPE 30M E OF CORN BINS, WELL BELOW IT;  
2-65 TESTED TWICE TOTAL APPEARS LESS THAN P ALKALINITY ?;

606909 TYPE STREAM SEDIMENT REPLICATE SAMPLER RLB AIR TEMP(C) + 28.0 WEATHER CALM-PT CLDY  
 PHASE G MAP NM1412 SITE 0609 TIME TAKEN 16/12/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.107( 48 6'25") LONG 97.331( 97 19'51") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) 1.00 DEPTH(M) 0.40 LEVEL NORMAL  
 BED MATERIAL CLAY SAMPLE: COLOR M-BK-GY ODOR NONE  
 SEDIMENT INFORMATION:  
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 20

REMARKS:

1-38 MEKINOCK 7.5' MAP, SAMPLE TAKEN 40M UPSTREAM OF ROAD, START 10M UPSTREAM OF BANKS, OVER A 20M INTERVAL;  
1-60 WHEAT, SUNFLOWERS UPSTREAM;

606910 TYPE STREAM SEDIMENT REPLICATE SAMPLER RLB AIR TEMP(C) + 28.0 WEATHER CALM-CLEAR  
 PHASE 2 MAP NM1412 SITE 0610 TIME TAKEN 17/12/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.091( 48 5'27") LONG 97.353( 97 21'10") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL CLAY SAMPLE: COLOR D-GY-BK ODOR NONE  
 SEDIMENT INFORMATION:  
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 35

REMARKS:

1-38 MEKINOCK 7.5' MAP, SAMPLE TAKEN 30M UPSTREAM OF INTERSECTION, START AT GENTLE RISE, OVER 20M INTERVAL;  
1-60 WHEAT FIELDS UPSTREAM;

606911 TYPE WELL WATER REPLICATE SAMPLER RLB AIR TEMP(C) + 27.0 WEATHER CALM-CLEAR  
 PHASE 2 MAP NM1412 SITE 0611 TIME TAKEN 20/12/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.120( 48 7'12") LONG 97.361( 97 21'39") CONTAMINANTS OTHER  
 SURFACE GEOL UNIT QTL RESULTS REQ YES ,RELEASED 801031 SAMPLE: COLOR L-BN-DR ODOR OTHER

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 950 DISSOLVED OXYGEN(PPM) 2.8  
 WATER TEMP(C) + 9.7 VISIBILITY(M) 2.00 PH 7.7 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 419 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 394  
 APPEARANCE MURKY DISCHARGE(L/M) 30.00  
 PRODUCING HORIZON QPG CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ARTESIAN CASING UNKNOWN PIPE COMPOSITION GALVANIZED  
 METERS FROM HEAD 20 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON(M) 10 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 10 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

REMARKS:

1-38 MEINOCK 7.5' MAP, SAMPLE FROM FAUCET E OF CHICKEN COUP;  
1-60 RAIN AND POND WATER, WHEAT FIELDS;

1-78 DICK KORYNTA & ARDOCH, N.D. & 582131

606912 TYPE WELL WATER REPLICATE SAMPLER RLB AIR TEMP(C) + 27.0 WEATHER CALM-CLEAR  
 PHASE 2 MAP NM1412 SITE 0612 TIME TAKEN 18/12/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.103( 48 6'10") LONG 97.426( 97 25'33") CONTAMINANTS OTHER  
 SURFACE GEOL UNIT QTL RESULTS REQ NO ,RELEASED 801031 SAMPLE: COLOR M-BN-OR ODOR NONE

GENERAL WATER INFORMATION:  
 TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 850 DISSOLVED OXYGEN(PPM) 0.9  
 WATER TEMP(C) + 19.9 VISIBILITY(M) 0.20 PH 7.3 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 320 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 342  
 APPEARANCE MURKY DISCHARGE(L/M) 10.00  
 PRODUCING HORIZON QPG CONFIDENCE HIGH SOURCE PUBLICATION

WELL INFORMATION:  
 TYPE DRILLED POWER CLASSIFICATION ARTESIAN CASING OTHER PIPE COMPOSITION STEEL  
 METERS FROM HEAD 0 WITH RESPECT TO PRESSURE TANK NONE USE NONE PUMPING FREQUENCY RARE  
 DEPTH TO PROD HORIZON(M) 40 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH(M) 40 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:  
 1-38 GILBY 7.5' MAP, BOB STEHART & GILBY, N.D. SAMPLE FROM WELL 25M S.E. OF HOUSE, TAKEN BY BUCKET.  
 1-60 ALL GROUND WATER SEEPING IN;  
 1-77 BOG SMELL, PUTRID;  
 3-20 HOOD;

606913 TYPE STREAM SEDIMENT REPLICATE SAMPLER RLB AIR TEMP(C) + 28.0 WEATHER CALM-CLEAR  
 PHASE 2 MAP NM1412 SITE 0613 TIME TAKEN 19/12/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.116( 48 6'57") LONG 97.407( 97 24'25") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ NO ,RELEASED 801031 WATER WIDTH(M) 1.00 DEPTH(M) 0.10 LEVEL LOW  
 BED MATERIAL SILT SAMPLE: COLOR M-GY-BK ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 30

REMARKS:  
 1-38 GILBY 7.5' MAP, SAMPLE TAKEN 30M UPSTREAM OF BRIDGE, START IN TALL GRASS, OVER 20M INTERVAL;  
 1-60 WHEAT FIELDS;

606914 TYPE STREAM SEDIMENT REPLICATE SAMPLER RLB AIR TEMP(C) + 27.0 WEATHER CALM-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0614 TIME TAKEN 11/13/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.058( 48 3'28") LONG 97.471( 97 28'15") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) 0.10  
 SURFACE GEOL UNIT QPG RESULTS REQ NO ,RELEASED 801031 WATER WIDTH(M) 1.00 DEPTH(M) 0.02 LEVEL NORMAL  
 BED MATERIAL SILT SAMPLE: COLOR M-BN-GY ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 10

REMARKS:  
 1-38 GILBY 7.5' MAP, SAMPLE TAKEN 25M UPSTREAM OF BRIDGE, START AT BEND, OVER 20M INTERVAL;  
 1-60 WHEAT FIELDS;

606915 TYPE WELL WATER REPLICATE SAMPLER RLB AIR TEMP(C) + 28.0 WEATHER CALM-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0615 TIME TAKEN 12/13/07/79 RELIEF FLAT VEGETATION DECIDUOUS-MODERATE  
 LOCATION: LAT 48.039 (48 2'20") LONG 97.493 (97 29'34") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:  
 TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 3290 DISSOLVED OXYGEN (PPM) 5.5  
 WATER TEMP (C) + 8.9 VISIBILITY (M) CLEAR PH 6.7 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 332 P ALKALINITY (PPM) 25 M ALKALINITY (PPM) 340  
 APPEARANCE CLEAR DISCHARGE (L/M) 10.00  
 PRODUCING HORIZON QPG CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:  
 TYPE DRILLED POWER CLASSIFICATION HAND CASING OTHER PIPE COMPOSITION STEEL  
 METERS FROM HEAD 0 WITH RESPECT TO PRESSURE TANK NONE USE IRRIGATION PUMPING FREQUENCY INFREQUENT  
 DEPTH TO PROD HORIZON (M) 10 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH (M) 10 CONFIDENCE OF WELL DEPTH POSSIBLE SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

REMARKS:  
 1-38 GILBY 7.5' MAP, SAMPLE FROM PUMP 15M, S.W. OF HOUSE, WELL BELOW IT;  
 1-78 ORVILL CARLSON & GILBY, N.D. 58235;  
 3-20 CEMENT;

606916 TYPE WELL WATER REPLICATE SAMPLER RLB AIR TEMP(C) + 29.0 WEATHER CALM-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0616 TIME TAKEN 13/13/07/79 RELIEF MODERATE VEGETATION DECIDUOUS-MODERATE  
 LOCATION: LAT 48.006 (48 0'21") LONG 97.411 (97 24'39") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:  
 TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 560 DISSOLVED OXYGEN (PPM) 3.1  
 WATER TEMP (C) + 9.4 VISIBILITY (M) CLEAR PH 7.7 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 368 P ALKALINITY (PPM) 25 M ALKALINITY (PPM) 366  
 APPEARANCE CLEAR DISCHARGE (L/M) 10.00  
 PRODUCING HORIZON QPG CONFIDENCE HIGH SOURCE PUBLICATION

WELL INFORMATION:  
 TYPE UNKNOWN POWER CLASSIFICATION HAND CASING OTHER PIPE COMPOSITION UNKNOWN  
 METERS FROM HEAD 0 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY INFREQUENT  
 DEPTH TO PROD HORIZON (M) 30 CONFIDENCE OF PRODUCING DEPTH HIGH SOURCE OF PRODUCING INFORMATION PUBLICATION  
 WELL DEPTH (M) 30 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION PUBLICATION

REMARKS:  
 1-38 GILBY 7.5' MAP, SAMPLE FROM RED PUMP FAUCET, 10M. E. OF HOUSE, WELL BELOW IT;  
 1-78 HAROLD SCHRODER & MEKINOCK, N.D. 58258;  
 3-20 CEMENT CASING;

606917 TYPE STREAM SEDIMENT REPLICATE SAMPLER RLB AIR TEMP(C) + 27.0 WEATHER CALM-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0617 TIME TAKEN 13/15/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.015 (48 0'54") LONG 97.403 (97 24'10") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ NO, RELEASED 801031 WATER: WIDTH (M) 3.00 DEPTH (M) 0.05 LEVEL POOLS  
 BED MATERIAL SILT SAMPLE: COLOR D-BK-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 35

REMARKS:

J-38 GILBY 7.5' MAP, SAMPLE TAKEN 40M DOWNSTREAM OF INTERSECTION, START AT TIP OF BEND, OVER 16 M. INTERVAL;

606918 TYPE STREAM SEDIMENT REPLICATE SAMPLER RLB AIR TEMP(C) + 27.0 WEATHER CALM-OVERCAST
PHASE 2 MAP NM1412 SITE 0618 TIME TAKEN 15/13/07/79 RELIEF FLAT VEGETATION DECIDUOUS-MODERATE
LOCATION: LAT 48.050 ( 48 3' 0") LONG 97.429 ( 97 25' 44") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
SURFACE GEOL UNIT QPG RESULTS REQ NO ,RELEASED 801031 BED MATERIAL CLAY SAMPLE: COLOR D-GY-BK. ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 30

REMARKS:

J-38 GILBY 7.5' MAP, SAMPLE TAKEN 30M UPSTREAM OF BRIDGE, START AT HIDE SPOT, OVER 10M INTERVAL;
1-60 WHEAT FIELD;

606919 TYPE WELL WATER REPLICATE SAMPLER RLB AIR TEMP(C) + 27.0 WEATHER LT WIND-OVERCAST
PHASE 2 MAP NM1412 SITE 0619 TIME TAKEN 15/13/07/79 RELIEF FLAT VEGETATION DECIDUOUS-MODERATE
LOCATION: LAT 48.065 ( 48 3' 54") LONG 97.427 ( 97 25' 37") CONTAMINANTS NONE
SURFACE GEOL UNIT QTL RESULTS REQ YES ,RELEASED 801031 SAMPLE: COLOR U-DR-YL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHO'S/CM) 3820 DISSOLVED OXYGEN (PPM) 7.9
WATER TEMP(C) + 15.0 VISIBILITY (M) 5.00 PH 7.2 LO-ION PAPER
TOTAL ALKALINITY (PPM) 371 P ALKALINITY (PPM) < 5 M ALKALINITY (PPM) 352
APPEARANCE MURKY DISCHARGE (L/M) 10.00
PRODUCING HORIZON QPG CONFIDENCE HIGH SOURCE PUBLICATION

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION OTHER CASING OTHER PIPE COMPOSITION GALVANIZED
METERS FROM HEAD 0 WITH RESPECT TO PRESSURE TANK BEFORE USE NONE PUMPING FREQUENCY INFREQUENT
DEPTH TO PROD HORIZON (M) 7 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER
WELL DEPTH (M) 7 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

J-38 GILBY 7.5' MAP, SAMPLE FROM WELL 10M S.E. OF HOUSE, RED CAP WELL;
1-78 TED PAUR & GILBY, H.D. 58235;
3-19 BUCKET;
3-20 CEMENT;

606920 TYPE STREAM SEDIMENT REPLICATE SAMPLER RLB AIR TEMP(C) + 27.0 WEATHER LT WIND-OVERCAST
PHASE 2 MAP NM1412 SITE 0620 TIME TAKEN 16/13/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE
LOCATION: LAT 48.085 ( 48 5' 6") LONG 97.428 ( 97 25' 40") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) 0.05
SURFACE GEOL UNIT QTL RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH (M) L.00 DEPTH (M) 0.20 LEVEL NORMAL
BED MATERIAL CLAY SAMPLE: COLOR M-BK-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL (%) 30

REMARKS:

1-38 GILBY 7.5' MAP, SAMPLE TAKEN 40M. UPSTREAM OF ROAD, START WITH TREE ON N. BANK, OVER 20M. INTERVAL;  
1-60 WHEAT AND SUN FLOWERS UPSTREAM;

606921 TYPE WELL WATER REPLICATE SAMPLER RLB AIR TEMP(C) + 28.0 WEATHER LT WIND-OVERCST  
PHASE 2 MAP NM1412 SITE 0621 TIME TAKEN 16/13/07/79 RELIEF FLAT VEGETATION DECIDUOUS-MODERATE  
LOCATION: LAT 48.096 (48 5'45") LONG 97.449 (97 26'56") CONTAMINANTS NONE  
SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL - QDOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 1140 DISSOLVED OXYGEN (PPM) 6.3  
WATER TEMP (C) + 14.6 VISIBILITY (M) CLEAR PH 7.6 LO-ION PAPER  
TOTAL ALKALINITY (PPM) 379 P ALKALINITY (PPM) 35 M ALKALINITY (PPM) 390  
APPEARANCE CLEAR DISCHARGE (L/M) 20.00 SOURCE PUBLICATION  
PRODUCING HORIZON QPG CONFIDENCE HIGH

WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION ELECTRIC CASING OTHER PIPE COMPOSITION PLASTIC  
METERS FROM HEAD 2 WITH RESPECT TO PRESSURE TANK AFTER USE ALL TYPES PUMPING FREQUENCY FREQUENT  
DEPTH TO PROD HORIZON (M) 12 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
WELL DEPTH (M) 12 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 GILBY 7.5' MAP, SAMPLE FROM FAUCET 30M. S. OF HOUSE ON E. SIDE OF PUMP HOUSE, WELL IN PUMP HOUSE;  
1-78 IVAN BANGLE & BOX 82 & GILBY, N.D. 58235;  
3-20 HOOD CASING;

606922 TYPE WELL WATER REPLICATE SAMPLER RLB AIR TEMP(C) + 27.0 WEATHER LT WIND-OVERCST  
PHASE 2 MAP NM1412 SITE 0622 TIME TAKEN 17/13/07/79 RELIEF FLAT VEGETATION DECIDUOUS-MODERATE  
LOCATION: LAT 48.164 (48 9'50") LONG 97.473 (97 28'22") CONTAMINANTS NONE  
SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR U-OR-YL - ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 2730 DISSOLVED OXYGEN (PPM) 4.8  
WATER TEMP (C) + 8.9 VISIBILITY (M) 6.00 PH 7.3 LO-ION PAPER  
TOTAL ALKALINITY (PPM) 930 P ALKALINITY (PPM) 35 M ALKALINITY (PPM) 890  
APPEARANCE CLEAR DISCHARGE (L/M) 10.00 SOURCE PUBLICATION  
PRODUCING HORIZON QPG CONFIDENCE HIGH

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION GALVANIZED  
METERS FROM HEAD 4 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY FREQUENT  
DEPTH TO PROD HORIZON (M) 40 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
WELL DEPTH (M) 40 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 FOREST RIVER 7.5' MAP SAMPLE FROM PIPE AT STOCK TANK 30M. W. OF HOUSE, WELL IN PUMP HOUSE;  
1-78 R.C. WILSON & FOREST RIVER, N.D. 58233;

606923 TYPE STREAM SEDIMENT REPLICATE SAMPLER RLB AIR TEMP(C) + 26.0 WEATHER CALM-OVERCST  
PHASE 2 MAP NM1412 SITE 0623 TIME TAKEN 18/13/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE



LOCATION: LAT 48.170 (48 10' 12") LONG 97.407 (97 24' 25")

CONTAMINANTS AGRICULTURAL  
WATER: WIDTH(M)  
BED MATERIAL CLAY

STREAM FLOW(M/SEC)  
DEPTH(M)

LEVEL DRY  
ODOR NONE

SURFACE GEOL UNIT QTL RESULTS REQ NO ,RELEASED 801031

SAMPLE: COLOR M-GY-BK

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 25

REMARKS:

1-38 FOREST RIVER 7.5' MAP, SAMPLE FROM MIDDLE OF FIELD 40M UPSTREAM OF ROAD, START WITH HOUSE DIRECTLY N., OVER 15M. INTERVAL;

606924 TYPE WELL WATER REPLICATE SAMPLER RLB  
PHASE 2 MAP NM1412 SITE 0624 TIME TAKEN 10/13/07/79  
LOCATION: LAT 48.171 (48 10' 15") LONG 97.340 (97 20' 24")  
SURFACE GEOL UNIT QTL RESULTS REQ YES ,RELEASED 801031

AIR TEMP(C) + 25.0 WEATHER CALM-CLEAR  
RELIEF FLAT VEGETATION GRASS-MODERATE  
CONTAMINANTS NONE

SAMPLE: COLOR L-BU-GN ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 2040 DISSOLVED OXYGEN(PPM) 2.2  
WATER TEMP(C) + 9.4 VISIBILITY(M) 3.00 PH 7.9 LO-ION PAPER  
TOTAL ALKALINITY(PPM) 216 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 214  
APPEARANCE ALGAL DISCHARGE(L/M) 5.00 SOURCE PUBLICATION  
PRODUCING HORIZON OPG CONFIDENCE HIGH

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ARTESIAN CASING GALVANIZED PIPE COMPOSITION PLASTIC  
METERS FROM HEAD 1 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY FREQUENT  
DEPTH TO PROD HORIZON(M) 47 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION GEOL INFERENCE  
WELL DEPTH(M) 47 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 ARDOCH, 7.5' MAP, SAMPLE FROM PIPE 2M. W. OF BARN, WELL JUST N.  
1-78 STEVE BRISKE & BOX 31 & ARDOCH, N.D. & 58213;

606925 TYPE STREAM SEDIMENT REPLICATE SAMPLER RLB  
PHASE 2 MAP NM1412 SITE 0625 TIME TAKEN 10/14/07/79  
LOCATION: LAT 48.223 (48 13' 22") LONG 97.347 (97 20' 49")  
SURFACE GEOL UNIT QTL RESULTS REQ NO ,RELEASED 801031

AIR TEMP(C) + 24.0 WEATHER -CLEAR  
RELIEF LOW VEGETATION GRASS-MODERATE  
CONTAMINANTS NONE  
WATER: WIDTH(M) 2.00  
BED MATERIAL SILT

STREAM FLOW(M/SEC) 0.03  
DEPTH(M) 0.50 LEVEL NORMAL  
SAMPLE: COLOR M-BK-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 50

REMARKS:

1-38 ARDOCH 7.5' MAP, SAMPLE 25M. UPSTREAM OF BRIDGE, START WITH ROW OF TREES E., OVER 20M. INTERVAL;

606926 TYPE WELL WATER REPLICATE SAMPLER RLB  
PHASE 2 MAP NM1412 SITE 0626 TIME TAKEN 11/14/07/79  
LOCATION: LAT 48.223 (48 13' 22") LONG 97.382 (97 22' 55")  
SURFACE GEOL UNIT QTL RESULTS REQ YES ,RELEASED 801031

AIR TEMP(C) + 25.0 WEATHER -CLEAR  
RELIEF FLAT VEGETATION DECIDUOUS-MODERATE  
CONTAMINANTS NONE

SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 1750 DISSOLVED OXYGEN(PPM) 3.7

WATER TEMP(C) + 7.3 VISIBILITY(M) CLEAR PH 6.7 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 396 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 400  
 APPEARANCE CLEAR DISCHARGE(L/M) 10.00  
 PRODUCING HORIZON QTL CONFIDENCE HIGH SOURCE PUBLICATION

WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION ELECTRIC CASING OTHER PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 15 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/IRRIG. PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON(M) 4 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 4 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 FOREST RIVER 7.5' MAP, SAMPLE FROM FAUCET 30M. S. OF HOUSE JUST W. OF CHICKEN COUP, WELL 5M W. OF BARN;  
 1-78 FRANCIS NARLOCK, & FOREST RIVER, N.D. & 58233;  
 3-20 CONCRETE;

606927 TYPE WELL WATER REPLICATE SAMPLER RLB AIR TEMP(C) + 26.0 WEATHER -CLEAR  
 PHASE 2 MAP NM1412 SITE 0627 TIME TAKEN 12/14/07/79 RELIEF FLAT VEGETATION DECIDUOUS-SPARSE  
 LOCATION: LAT 48.205( 48 12'18") LONG 97.340( 97 20'24") CONTAMINANTS URBAN  
 SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 2370 DISSOLVED OXYGEN(PPM) 2.6  
 WATER TEMP(C) + 22.8 VISIBILITY(M) CLEAR PH 7.2 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 590 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 600  
 APPEARANCE CLEAR DISCHARGE(L/M) 15.00  
 PRODUCING HORIZON QTL CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING GALVANIZED PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 1 WITH RESPECT TO PRESSURE TANK AFTER USE MUNICIPAL PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON(M) 3 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 3 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 ARDOCH 7.5' MAP, SAMPLE FROM FAUCET OFF PUMP IN BACK ROOM OF SMOKY'S BAR, WELL BENEATH PUMP;  
 1-60 TOWN OF ARDOCH;  
 1-78 F. E. SCHULTZ & ARDOCH, N.D. 58213;

606928 TYPE WELL WATER REPLICATE SAMPLER RLB AIR TEMP(C) + 26.0 WEATHER -CLEAR  
 PHASE 2 MAP NM1412 SITE 0628 TIME TAKEN 13/14/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.182( 48 10'55") LONG 97.302( 97 18' 7") CONTAMINANTS OTHER  
 SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR D-BN-OR ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 1800 DISSOLVED OXYGEN(PPM) 1.9  
 WATER TEMP(C) + 11.9 VISIBILITY(M) 0.20 PH 7.4 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 818 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 790  
 APPEARANCE MURKY DISCHARGE(L/M) 5.00  
 PRODUCING HORIZON QTL CONFIDENCE POSSIBLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE UNKNOWN POWER CLASSIFICATION HAND CASING UNKNOWN PIPE COMPOSITION UNKNOWN

METERS FROM HEAD	0	WITH RESPECT TO PRESSURE TANK	NONE	USE	STOCK	PUMPING FREQUENCY	FREQUENT
DEPTH TO PROD HORIZON(M)	5	CONFIDENCE OF PRODUCING DEPTH	POSSIBLE	SOURCE OF PRODUCING INFORMATION	GEOLOGICAL INFERENCE		
WELL DEPTH(M)	5	CONFIDENCE OF WELL DEPTH	POSSIBLE	SOURCE OF DEPTH INFORMATION	GEOLOGICAL INFERENCE		

REMARKS:

1-38 ARDOCH 7.5' MAP, SAMPLE FROM PUMP 35M N.W. OF HOUSE, WELL BELOW IT;  
 1-60 SAND IN WATER;  
 1-78 HARLAN MUTH & ARDOCH, N.D. 58213;

606929	TYPE	STREAM SEDIMENT	REPLICATE	SAMPLER	RLB	AIR TEMP(C)	+ 26.0	WEATHER	-CLEAR	
	PHASE 2	MAP NM1412	SITE 0629	TIME TAKEN	13/14/07/79	RELIEF	FLAT	VEGETATION	GRASS-MODERATE	
	LOCATION:	LAT 48.180( 48 10'48")	LONG 97.321( 97 19'15")	CONTAMINANTS	NONE	STREAM FLOW(M/SEC)	NONE	WATER: WIDTH(M)	1.00	
	SURFACE GEOL UNIT	QTL	RESULTS REQ NO	RELEASED	801031	DEPTH(M)	0.10	LEVEL	LOW	
	SEDIMENT INFORMATION:					BED MATERIAL	SILT	SAMPLE: COLOR	M-BK-GY	
	SAMPLE CONDITION	WET	SAMPLE TREATMENT	NONE	NUMBER OF GRABS	7	ORGANIC MATERIAL(%)	10	ODOR	NONE

REMARKS:

1-38 ARDOCH 7.5' MAP, SAMPLE 40M, UPSTREAM OF BRIDGE, START AT TIP OF BEND, OVER 20M INTERVAL;

606930	TYPE	WELL WATER	REPLICATE	SAMPLER	RLB	AIR TEMP(C)	+ 26.0	WEATHER	-CLEAR	
	PHASE 2	MAP NM1412	SITE 0630	TIME TAKEN	14/14/07/79	RELIEF	LOW	VEGETATION	DECIDUOUS-MODERATE	
	LOCATION:	LAT 48.212( 48 12'43")	LONG 97.273( 97 16'22")	CONTAMINANTS	OTHER	DISOLVED OXYGEN(PPM)	2.3	PH	8.1	
	SURFACE GEOL UNIT	QTL	RESULTS REQ YES	RELEASED	801031	M ALKALINITY(PPM)	156	LO-ION PAPER		
	GENERAL WATER INFORMATION:					CONDUCTIVITY(MICROMHOS/CM)	320	DISCHARGE(L/M)	0.00	
	TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	320	DISOLVED OXYGEN(PPM)	2.3	PH	8.1	LO-ION PAPER	
	WATER TEMP(C)	+ 19.9	VISIBILITY(M)	5.00	M ALKALINITY(PPM)	156	DISCHARGE(L/M)	0.00	SOURCE	PUBLICATION
	TOTAL ALKALINITY(PPM)	168	P ALKALINITY(PPM)	55	DISCHARGE(L/M)	0.00	CONFIDENCE	HIGH		
	APPEARANCE	MURKY	DISCHARGE(L/M)	0.00	CONFIDENCE	HIGH	SOURCE	PUBLICATION		
	PRODUCING HORIZON	QTL	CONFIDENCE	HIGH	SOURCE	PUBLICATION				

WELL INFORMATION:

TYPE	DUG	POWER CLASSIFICATION	OTHER	CASING	OTHER	PIPE COMPOSITION	OTHER
METERS FROM HEAD	0	WITH RESPECT TO PRESSURE TANK	NONE	USE	NONE	PUMPING FREQUENCY	RARE
DEPTH TO PROD HORIZON(M)	6	CONFIDENCE OF PRODUCING DEPTH	POSSIBLE	SOURCE OF PRODUCING INFORMATION	GEOLOGICAL INFERENCE		
WELL DEPTH(M)	6	CONFIDENCE OF WELL DEPTH	PROBABLE	SOURCE OF DEPTH INFORMATION	OWNER		

REMARKS:

1-38 ARDOCH 7.5' MAP, SAMPLE FROM WELL 100M N.E. OF HOUSE, IN FIELD;  
 1-60 RAIN WATER; 3-20 HOOD;  
 1-78 ERNEST SHATLOSKI & ARDOCH, N.D. 58213;  
 2-63 RECHECKED PH VS. ALKALINITY;  
 3-19 BUCKET;  
 3-21 NO PIPE;

606931	TYPE	WELL WATER	REPLICATE	SAMPLER	RLB	AIR TEMP(C)	+ 27.0	WEATHER	-CLEAR
	PHASE 2	MAP NM1412	SITE 0631	TIME TAKEN	14/14/07/79	RELIEF	FLAT	VEGETATION	DECIDUOUS-MODERATE
	LOCATION:	LAT 48.236( 48 14' 9")	LONG 97.271( 97 16' 15")	CONTAMINANTS	NONE	DISCHARGE(L/M)		PH	
	SURFACE GEOL UNIT	QTL	RESULTS REQ YES	RELEASED	801031	DISCHARGE(L/M)		PH	
	GENERAL WATER INFORMATION:					DISCHARGE(L/M)		PH	
	TREATMENT	NONE	DISCHARGE(L/M)		PH			PH	
	WATER TEMP(C)		DISCHARGE(L/M)		PH			PH	
	TOTAL ALKALINITY(PPM)		DISCHARGE(L/M)		PH			PH	
	APPEARANCE		DISCHARGE(L/M)		PH			PH	
	PRODUCING HORIZON		DISCHARGE(L/M)		PH			PH	

SAMPLE: COLOR M-BU-GY ODOR H2S

GENERAL WATER INFORMATION:

TREATMENT NONE  
 WATER TEMP(C) + 9.9 CONDUCTIVITY(MICROMHOS/CM) 710 DISSOLVED OXYGEN(PPM) 2.1  
 VISIBILITY(M) 0.50 PH 7.7 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 198 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 216  
 APPEARANCE ALGAL DISCHARGE(L/M) 10.00  
 PRODUCING HORIZON QTL CONFIDENCE HIGH SOURCE PUBLICATION

WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION HAND CASING OTHER PIPE COMPOSITION UNKNOWN  
 METERS FROM HEAD 0 WITH RESPECT TO PRESSURE TANK NONE USE NONE PUMPING FREQUENCY RARE  
 DEPTH TO PROD HORIZON(M) 6 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 6 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION USER

REMARKS:

1-38 ARDOCH 7.5' MAP, SAMPLE FROM PUMP 100M. E. OF HOUSE IN FIELD, WELL BELOW IT;  
 1-78 LOUISE ZOLNDEK & ARDOCH, N.D. 58213;  
 3-20 WOOD CASING;

606932 TYPE WELL WATER REPLICATE SAMPLER RLB AIR TEMP(C) + 27.0 WEATHER -CLEAR  
 PHASE 2 MAP NM1412 SITE 0632 TIME TAKEN 15/14/07/79 RELIEF FLAT VEGETATION DECIDUOUS-MODERATE  
 LOCATION: LAT 48.212( 48 12'43") LONG 97.470( 97 28'12") CONTAMINANTS URBAN  
 SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031 SAMPLE COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE  
 WATER TEMP(C) + 10.7 CONDUCTIVITY(MICROMHOS/CM) 780 DISSOLVED OXYGEN(PPM) 3.4  
 VISIBILITY(M) CLEAR PH 7.7 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 490 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 516  
 APPEARANCE CLEAR DISCHARGE(L/M) 10.00  
 PRODUCING HORIZON QTL CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION HAND CASING UNKNOWN PIPE COMPOSITION UNKNOWN  
 METERS FROM HEAD 1 WITH RESPECT TO PRESSURE TANK NONE USE IRRIGATION PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON(M) 4 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 4 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 FOREST RIVER 7.5' MAP, SAMPLE FROM PUMP 5M E. OF HOUSE, WELL JUST E. OF PUMP;  
 1-60 TOWN OF FOREST RIVER;  
 1-78 MELVIN ARMBRUST & BOX 43 & FOREST RIVER, N.D. 58233;

606933 TYPE STREAM SEDIMENT REPLICATE SAMPLER RLB AIR TEMP(C) + 26.0 WEATHER -CLEAR  
 PHASE G MAP NM1412 SITE 0633 TIME TAKEN 16/14/07/79 RELIEF LOW VEGETATION DECIDUOUS-MODERATE  
 LOCATION: LAT 48.238( 48 14'16") LONG 97.437( 97 26'13") CONTAMINANTS URBAN STREAM FLOW(M/SEC) 0.60  
 SURFACE GEOL UNIT QAL RESULTS REQ NO, RELEASED 801031 WATER: WIDTH(M) 2.00 DEPTH(M) 0.70 LEVEL NORMAL  
 BED MATERIAL SAND SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 FOREST RIVER 7.5' MAP SAMPLE 30 M. UPSTREAM OF BRIDGE, START WITH STUMP ON W. BANK, OVER 20 M. INTERVAL;  
 1-60 TOWN OF FOREST RIVER;

606935 TYPE WELL WATER REPLICATE SAMPLER RLB AIR TEMP(C) + 25.0 WEATHER -CLEAR  
 PHASE 2 MAP NM1412 SITE 0635 TIME TAKEN 17/14/07/79 RELIEF FLAT VEGETATION DECIDUOUS-MODERATE  
 LOCATION: LAT 48.234 (48 14' 2") LONG 97.449 (97 26' 56") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QAL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 540 DISSOLVED OXYGEN (PPM) 2.3  
 WATER TEMP(C) + 8.4 VISIBILITY (M) CLEAR PH 7.9 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 374 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 390  
 APPEARANCE CLEAR DISCHARGE (L/M) 10.00  
 PRODUCING HORIZON QTL CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

## WELL INFORMATION:

TYPE UNKNOWN POWER CLASSIFICATION ELECTRIC CASING OTHER PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 2 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON (M) 7 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH (M) 7 CONFIDENCE OF WELL DEPTH POSSIBLE SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

## REMARKS:

1-38 FOREST RIVER 7.5' MAP, SAMPLE FROM PIPE IN PUMP HOUSE 2M. N. OF HOUSE, WELL N. OF PUMP HOUSE;  
 1-78 ANTONIO ROBLES & MINTO, N.D.;  
 3-20 CONCRETE;

606936 TYPE STREAM SEDIMENT REPLICATE SAMPLER RLB AIR TEMP(C) + 20.0 WEATHER LT WIND-CLEAR  
 PHASE 2 MAP NM1412 SITE 0636 TIME TAKEN 10/15/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.775 (48 46' 30") LONG 97.489 (97 29' 20") CONTAMINANTS AGRICULTURA  
 SURFACE GEOL UNIT QTL RESULTS REQ NO, RELEASED 801031 WATER: WIDTH (M) DEPTH (M) LEVEL DRY  
 BED MATERIAL SILT SAMPLE: COLOR M-GY-BK ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 25

## REMARKS:

1-38 HAMILTON 7.5' MAP SAMPLE TAKEN 25M. UPSTREAM OF ROAD, START HALF WAY TO FIRST BEND, OVER 20M. INTERVAL  
 1-60 WHEAT FIELDS;

606937 TYPE WELL WATER REPLICATE SAMPLER RLB AIR TEMP(C) + 22.0 WEATHER LT WIND-CLEAR  
 PHASE 2 MAP NM1412 SITE 0637 TIME TAKEN 11/5/07/79 RELIEF FLAT VEGETATION DECIDUOUS-MODERATE  
 LOCATION: LAT 48.789 (48 47' 20") LONG 97.497 (97 29' 49") CONTAMINANTS AGRICULTURA  
 SURFACE GEOL UNIT QAL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 720 DISSOLVED OXYGEN (PPM) 3.6  
 WATER TEMP(C) + 10.5 VISIBILITY (M) CLEAR PH 8.0 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 500 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 496  
 APPEARANCE CLEAR DISCHARGE (L/M) 10.00  
 PRODUCING HORIZON QAL CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION HAND CASING OTHER PIPE COMPOSITION STEEL  
 METERS FROM HEAD 0 WITH RESPECT TO PRESSURE TANK NONE USE IRRIGATION PUMPING FREQUENCY INFREQUENT  
 DEPTH TO PROD HORIZON (M) 6 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH (M) 6 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

## REMARKS:

1-38 HAMILTON 7.5' MAP, SAMPLE FROM PUMP 10M E. OF HOUSE, WELL BELOW PUMP;  
 1-60 WHEAT FARM;  
 1-78 C. G. ANDERSON & HAMILTON, ND 58364;

606938 TYPE STREAM SEDIMENT REPLICATE SAMPLER RLB AIR TEMP(C) + 22.0 WEATHER -CLEAR  
 PHASE 2 MAP NM1412 SITE 0638 TIME TAKEN 11/15/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.804 (48 48' 14") LONG 97.484 (97 29' 2") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 SURFACE GEOL UNIT QAL RESULTS REQ NO ,RELEASED 801031 BED MATERIAL CLAY SAMPLE: COLOR M-GY-BK ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 20

## REMARKS:

1-38 HAMILTON 7.5' MAP, SAMPLE TAKEN 100M. UPSTREAM OF BRIDGE, START 30M. S. OF ROAD, OVER 20M. INTERVAL;  
 1-60 SUNFLOWER FIELD;

606939 TYPE STREAM SEDIMENT REPLICATE SAMPLER RLB AIR TEMP(C) + 23.0 WEATHER LT WIND-CLEAR  
 PHASE 2 MAP NM1412 SITE 0639 TIME TAKEN 11/15/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.811 (48 48' 39") LONG 97.491 (97 29' 27") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 SURFACE GEOL UNIT QAL RESULTS REQ NO ,RELEASED 801031 BED MATERIAL CLAY SAMPLE: COLOR M-BK-GY ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 30

## REMARKS:

1-38 HAMILTON 7.5' MAP, SAMPLE TAKEN 25M. UPSTREAM OF ROAD, START IN MIDDLE OF STRAIGHT SECTION, OVER 20M. INTERVAL;  
 1-60 WHEAT FIELD;

606940 TYPE STREAM SEDIMENT REPLICATE SAMPLER RLB AIR TEMP(C) + 23.0 WEATHER LT WIND-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0640 TIME TAKEN 11/15/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.828 (48 49' 40") LONG 97.470 (97 28' 12") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 SURFACE GEOL UNIT QAL RESULTS REQ NO ,RELEASED 801031 BED MATERIAL CLAY SAMPLE: COLOR M-GY-BK ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 25

## REMARKS:

1-38 HAMILTON 7.5' MAP, SAMPLE TAKEN 50M. NORTH OF ROAD, START 25M. UPSTREAM OF INTERSECTION, OVER 20M. INTERVAL;  
 1-60 SUNFLOWER FIELD;

606941 TYPE STREAM SEDIMENT REPLICATE SAMPLER RLB AIR TEMP(C) + 24.0 WEATHER LT WIND-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0641 TIME TAKEN 12/15/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.836 (48 50' 9") LONG 97.448 (97 26' 52") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) 0.03  
 WATER: WIDTH(M) 1.00 DEPTH(M) 0.20 LEVEL NORMAL  
 SURFACE GEOL UNIT QTL RESULTS REQ NO ,RELEASED 801031 BED MATERIAL SILT SAMPLE: COLOR M-GY-BK ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 40

## REMARKS:

1-38 HAMILTON 7.5' MAP, SAMPLE TAKEN 40M. UPSTREAM OF ROAD, START AT NARROWS, OVER 20M. INTERVAL;  
1-60 WHEAT FIELDS;

606942 TYPE STREAM SEDIMENT REPLICATE SAMPLER RLB AIR TEMP(C) + 25.0 WEATHER LT WIND-PT CLDY  
PHASE 2 MAP NM1412 SITE 0642 TIME TAKEN 12/15/07/79 RELIEF FLAT VEGETATION BRUSH-MODERATE  
LOCATION: LAT 48.859 ( 48 51'32" ) LONG 97.409 ( 97 24'32" ) CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) NONE  
WATER: WIDTH(M) 0.20 DEPTH(M) 0.10 LEVEL LOW  
SURFACE GEOL UNIT QAL RESULTS REQ NO ,RELEASED 801031 BED MATERIAL SILT SAMPLE: COLOR M-BK-GY ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 40

## REMARKS:

1-38 HAMILTON 7.5' MAP, SAMPLE TAKEN 50M UPSTREAM OF INTERSECTION, START AT BUSH, OVER 20M. INTERVAL;  
1-60 WHEAT FIELDS UPSTREAM;

606943 TYPE STREAM SEDIMENT REPLICATE SAMPLER RLB AIR TEMP(C) + 25.0 WEATHER LT WIND-PT CLDY  
PHASE 2 MAP NM1412 SITE 0643 TIME TAKEN 13/15/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
LOCATION: LAT 48.861 ( 48 51'39" ) LONG 97.354 ( 97 21'14" ) CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) STAG  
WATER: WIDTH(M) 1.00 DEPTH(M) 0.20 LEVEL POOLS  
SURFACE GEOL UNIT QTL RESULTS REQ NO ,RELEASED 801031 BED MATERIAL CLAY SAMPLE: COLOR M-GY-BK ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 30

## REMARKS:

1-38 BARTHGATE SE 7.5' MAP, SAMPLE TAKEN 25M. UPSTREAM OF ROAD, START AT WIDE SPOT, OVER 20M. INTERVAL;  
1-60 WHEAT FIELDS;

606944 TYPE STREAM SEDIMENT REPLICATE SAMPLER RLB AIR TEMP(C) + 26.0 WEATHER LT WIND-PT CLDY  
PHASE 2 MAP NM1412 SITE 0644 TIME TAKEN 13/15/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
LOCATION: LAT 48.902 ( 48 54' 7" ) LONG 97.359 ( 97 21'32" ) CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) NONE  
WATER: WIDTH(M) 2.00 DEPTH(M) 0.02 LEVEL LOW  
SURFACE GEOL UNIT QAL RESULTS REQ NO ,RELEASED 801031 BED MATERIAL SILT SAMPLE: COLOR M-GY-BK ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 40

## REMARKS:

1-38 BARTHGATE NE 7.5' MAP, SAMPLE 50M. UPSTREAM OF BRIDGE, START UPSTREAM OF BUSHES, OVER 15M. INTERVAL;  
1-60 WHEAT FIELDS UPSTREAM;

606945 TYPE WELL WATER REPLICATE SAMPLER RLB AIR TEMP(C) + 26.0 WEATHER -PT CLDY  
PHASE 2 MAP NM1412 SITE 0645 TIME TAKEN 14/15/07/79 RELIEF FLAT VEGETATION DECIDUOUS-MODERATE  
LOCATION: LAT 48.915 ( 48 54'54" ) LONG 97.358 ( 97 21'28" ) CONTAMINANTS AGRICULTURA

SURFACE GEOL UNIT QAL RESULTS REQ YES, RELEASED 801031

SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE
WATER TEMP(C) + 9.5
TOTAL ALKALINITY (PPM) 120
APPEARANCE CLEAR
PRODUCING HORIZON QAL
CONDUCTIVITY (MICROMHOS/CM) 350
VISIBILITY (M) CLEAR
P ALKALINITY (PPM) 140
DISCHARGE (L/M) 20.00
CONFIDENCE POSSIBLE
DISSOLVED OXYGEN (PPM) 9.0
PH 9.5 LO-ION PAPER
M ALKALINITY (PPM) 118
SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE UNKNOWN
METERS FROM HEAD 10
DEPTH TO PROD HORIZON (M) 10
WELL DEPTH (M) 10
POWER CLASSIFICATION ELECTRIC
WITH RESPECT TO PRESSURE TANK NONE
CONFIDENCE OF PRODUCING DEPTH POSSIBLE
CONFIDENCE OF WELL DEPTH PROBABLE
CASING OTHER
USE HOUSE/STOCK
SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE
SOURCE OF DEPTH INFORMATION OWNER
PIPE COMPOSITION GALVANIZED
PUMPING FREQUENCY FREQUENT

REMARKS:

1-38 BATHGATE NE 7.5' MAP, SAMPLE FROM FAUCET SE OF BARN, WELL 10M. W. OF ROAD UNDER PUMP;
1-60 WHEAT FIELDS;
1-78 NICK ZAHARIA & BATHGATE, ND 58216;
3-20 CONCRETE CASING;

606946 TYPE STREAM SEDIMENT REPLICATE SAMPLER RLB
PHASE 2 MAP NM1412 SITE 0646 TIME TAKEN 14/15/07/79
LOCATION: LAT 48.920 (48 55' 12") LONG 97.284 (97 17' 2")

AIR TEMP (C) + 26.0 WEATHER LT WIND-PT CLDY
RELIEF FLAT VEGETATION GRASS-MODERATE
CONTAMINANTS AGRICULTURA STREAM FLOW (M/SEC) NONE
WATER: WIDTH (M) 2.00 DEPTH (M) 0.20 LEVEL LOW
BED MATERIAL SILT SAMPLE: COLOR D-GY-BK ODOR NONE

SURFACE GEOL UNIT QTL RESULTS REQ NO, RELEASED 801031

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 40

REMARKS:

1-38 BATHGATE NE 7.5' MAP, SAMPLE 40M UPSTREAM OF ROAD. START UPSTREAM OF REEDS, OVER 20M INTERVAL;
1-60 WHEAT FIELDS UPSTREAM;

606947 TYPE WELL WATER REPLICATE SAMPLER RLB
PHASE 2 MAP NM1412 SITE 0647 TIME TAKEN 15/15/07/79
LOCATION: LAT 48.969 (48 58' 8") LONG 97.250 (97 15' 0")

AIR TEMP (C) + 25.0 WEATHER LT WIND-PT CLDY
RELIEF LOW VEGETATION DECIDUOUS-MODERATE
CONTAMINANTS URBAN

SURFACE GEOL UNIT QAL RESULTS REQ NO, RELEASED 801031

SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE
WATER TEMP (C) + 9.7
TOTAL ALKALINITY (PPM) 426
APPEARANCE CLEAR
PRODUCING HORIZON QAL
CONDUCTIVITY (MICROMHOS/CM) 1400
VISIBILITY (M) CLEAR
P ALKALINITY (PPM) 45
DISCHARGE (L/M) 10.00
CONFIDENCE PROBABLE
DISSOLVED OXYGEN (PPM) 3.4
PH 7.8 LO-ION PAPER
M ALKALINITY (PPM) 420
SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE UNKNOWN
METERS FROM HEAD 0
DEPTH TO PROD HORIZON (M) 7
WELL DEPTH (M) 7
POWER CLASSIFICATION HAND
WITH RESPECT TO PRESSURE TANK NONE
CONFIDENCE OF PRODUCING DEPTH POSSIBLE
CONFIDENCE OF WELL DEPTH POSSIBLE
CASING UNKNOWN
USE HOUSE/IRRIG.
SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE
SOURCE OF DEPTH INFORMATION GEOL. INFERENCE
PIPE COMPOSITION UNKNOWN
PUMPING FREQUENCY INFREQUENT

REMARKS:



1-38 BARTHGATE NE 7.5' MAP, NO ADDRESS, SAMPLE FROM PUMP DM. E. OF HOUSE, WELL BELOW IT;  
1-60 TOWN OF PEMBIAN;

606948 TYPE STREAM SEDIMENT REPLICATE SAMPLER RLB AIR TEMP(C) + 25.0 WEATHER LT WIND-PT CLDY  
PHASE 6 MAP NM1412 SITE 0648 TIME TAKEN 16/15/07/79 RELIEF GENTLE VEGETATION DECIDUOUS-MODERATE  
LOCATION: LAT 48.960 (48 57'36") LONG 97.373 (97 22'22") CONTAMINANTS NONE STREAM FLOW(M/SEC) 0.20  
SURFACE GEOL UNIT QAL RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) 8.00 DEPTH(M) 2.00 LEVEL NORMAL  
BED MATERIAL SILT SAMPLE: COLOR M-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 15

REMARKS:

1-38 BARTHGATE NE 7.5' MAP, SAMPLE TAKEN S. OF HOUSE, START AT LARGE SLUMP, OVER 20M. INTERVAL;

606949 TYPE WELL WATER REPLICATE SAMPLER RLB AIR TEMP(C) + 25.0 WEATHER LT WIND-PT CLDY  
PHASE 2 MAP NM1412 SITE 0649 TIME TAKEN 16/15/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
LOCATION: LAT 48.975 (48 58'30") LONG 97.407 (97 24'25") CONTAMINANTS OTHER SAMPLE: COLOR L-YL-OR ODOR NONE  
SURFACE GEOL UNIT QAL RESULTS REQ NO ,RELEASED 801031

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 760 DISSOLVED OXYGEN(PPM) 2.8  
WATER TEMP(C) + 14.2 VISIBILITY(M) 2.00 PH 8.4 LO-ION PAPER  
TOTAL ALKALINITY(PPM) 238 P. ALKALINITY(PPM) <5 M. ALKALINITY(PPM) 238  
APPEARANCE MURKY DISCHARGE(L/M) 0.00 SOURCE GEOL INFERENCE  
PRODUCING HORIZON QAL CONFIDENCE PROBABLE

WELL INFORMATION:

TYPE UNKNOWN POWER CLASSIFICATION OTHER CASING OTHER PIPE COMPOSITION OTHER  
METERS FROM HEAD 0 WITH RESPECT TO PRESSURE TANK NONE USE NONE PUMPING FREQUENCY RARE  
DEPTH TO PROD HORIZON(M) 5 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
WELL DEPTH(M) 7 CONFIDENCE OF WELL DEPTH POSSIBLE SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

REMARKS:

1-38 BARTHGATE 7.5' MAP, NO ADDRESS SAMPLE FROM WELL 5M. E. OF BARN UNDER BOARDS;  
1-60 SURFACE WATER, WHEAT FIELD;  
2-63 RECHECKED PH VERSUS P ALKALINITY;  
3-19 BUCKET;  
3-20 CONCRETE;  
3-21 NO PIPES;

606950 TYPE STREAM SEDIMENT REPLICATE SAMPLER RLB AIR TEMP(C) + 25.0 WEATHER LT WIND-PT CLDY  
PHASE 2 MAP NM1412 SITE 0650 TIME TAKEN 17/15/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE  
LOCATION: LAT 48.980 (48 58'48") LONG 97.425 (97 25'30") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)  
SURFACE GEOL UNIT QAL RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
BED MATERIAL CLAY SAMPLE: COLOR M-BK-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 30

REMARKS:

1-38 BARTHGATE 7.5' MAP, SAMPLE 25M. UPSTREAM OF ROAD, START AT END OF STRAIGHT SECTION OVER 20M. INTERVAL;  
1-60 WHEAT FIELD, SOIL;

606951 TYPE WELL WATER REPLICATE SAMPLER RLB AIR TEMP(C) + 24.0 WEATHER LT WIND-CLEAR  
PHASE 2 MAP NM1412 SITE 0651 TIME TAKEN 17/15/07/79 RELIEF FLAT VEGETATION DECIDUOUS-MODERATE  
LOCATION: LAT 48.976 (48 58'33") LONG 97.455 (97 27'10") CONTAMINANTS NONE  
SURFACE GEOL UNIT QAL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 590 DISSOLVED OXYGEN(PPM) 2.8  
WATER TEMP(C) + 10.0 VISIBILITY(M) CLEAR PH 8.3 LO-ION PAPER  
TOTAL ALKALINITY(PPM) 400 P ALKALINITY(PPM) 45 M ALKALINITY(PPM) 396  
APPEARANCE CLEAR DISCHARGE(L/M) 20.00  
PRODUCING HORIZON QAL CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION ELECTRIC CASING OTHER PIPE COMPOSITION PLASTIC  
METERS FROM HEAD 10 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY FREQUENT  
DEPTH TO PROD HORIZON(M) 8 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
WELL DEPTH(M) 8 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

REMARKS:

1-38 BARTHGATE 7.5' MAP, SAMPLE FROM FAUCET 10M. NW OF HOUSE, WELL IN DRIVE N.  
1-78 MELVIN LEMKE & NECHE, ND 58265;  
2-63 RECHECKED PH VERSUS P ALKALINITY;  
3-20 CHIMNEY TILE;

606952 TYPE WELL WATER REPLICATE SAMPLER RLB AIR TEMP(C) + 23.0 WEATHER LT WIND-CLEAR  
PHASE 2 MAP NM1412 SITE 0652 TIME TAKEN 18/15/07/79 RELIEF FLAT VEGETATION DECIDUOUS-MODERATE  
LOCATION: LAT 48.942 (48 56'31") LONG 97.483 (97 28'58") CONTAMINANTS NONE  
SURFACE GEOL UNIT QAL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 1680 DISSOLVED OXYGEN(PPM) 5.1  
WATER TEMP(C) + 14.5 VISIBILITY(M) CLEAR PH 7.9 LO-ION PAPER  
TOTAL ALKALINITY(PPM) 444 P ALKALINITY(PPM) 45 M ALKALINITY(PPM) 458  
APPEARANCE CLEAR DISCHARGE(L/M) 15.00  
PRODUCING HORIZON QAL CONFIDENCE POSSIBLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION ELECTRIC CASING OTHER PIPE COMPOSITION GALVANIZED  
METERS FROM HEAD 5 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/IRRLG PUMPING FREQUENCY FREQUENT  
DEPTH TO PROD HORIZON(M) 7 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
WELL DEPTH(M) 7 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 BARTHGATE 7.5' MAP, SAMPLE FROM FAUCET ON N. SIDE OF HOUSE, WELL UNDER NE CORNER OF HOUSE;  
1-78 LOUISE BONAJME & NECHE, ND 58685;  
3-20 TILE CASING;

606953 TYPE STREAM SEDIMENT REPLICATE SAMPLER RLB AIR TEMP(C) + 23.0 WEATHER -PT CLDY

PHASE 2 MAP NM1412 SITE 0653 TIME TAKEN 10/15/07/79  
LOCATION: LAT 48.934 (48 56' 2") LONG 97.469 (97 28' 8")

RELIEF FLAT VEGETATION GRASS-MODERATE  
CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) NONE

SURFACE GEOL UNIT QAL RESULTS REQ YES, RELEASED B01031

WATER: WIDTH(M) 2.00 DEPTH(M) 0.10 LEVEL LOW  
BED MATERIAL SILT SAMPLE: COLOR M-GY-BK ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 30

REMARKS:

J-38 BARTHGATE 7.5' MAP, SAMPLE 30M UPSTREAM OF ROAD, START AT OLD FOUNDATION, OVER 20M. INTERVAL;  
I-60 WHEAT FIELDS UPSTREAM;  
J-78 MELVIN LEMBKE & NECHE N.D. 58685 L

606954 TYPE WELL WATER REPLICATE SAMPLER RLB  
PHASE 2 MAP NM1412 SITE 0654 TIME TAKEN 19/15/07/79  
LOCATION: LAT 48.916 (48 54' 57") LONG 97.400 (97 24' 0")  
SURFACE GEOL UNIT QAL RESULTS REQ NO, RELEASED B01031

AIR TEMP(C) + 23.0 WEATHER LT WIND-PT CLDY  
RELIEF FLAT VEGETATION DECIDUOUS-MODERATE  
CONTAMINANTS OTHER SAMPLE: COLOR M-OR-BN ODOR OTHER

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 900 DISSOLVED OXYGEN(PPM) 3.2  
WATER TEMP(C) + 13.8 VISIBILITY(M) 0.20 PH 8.2 LO-ION PAPER  
TOTAL ALKALINITY(PPM) 390 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 396  
APPEARANCE MURKY DISCHARGE(L/M) 10.00  
PRODUCING HORIZON QAL CONFIDENCE POSSIBLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE UNKNOWN POWER CLASSIFICATION HAND CASING STEEL PIPE COMPOSITION UNKNOWN  
METERS FROM HEAD 0 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY RARE  
DEPTH TO PROD HORIZON(M) 15 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
WELL DEPTH(M) 15 CONFIDENCE OF WELL DEPTH POSSIBLE SOURCE OF DEPTH INFORMATION USER

REMARKS:

J-38 BARTHGATE 7.5' MAP, "NO ADDRESS" SAMPLE FROM PUMP 10M. S.W. OF BARN, PUMP OVER WELL;  
I-60 SURFACE WATER;  
I-63 RECHECKED PH VS. P ALKALINITY;  
I-77 BOG SMELL;

606955 TYPE STREAM SEDIMENT REPLICATE SAMPLER RLB  
PHASE G MAP NM1412 SITE 6655 TIME TAKEN 19/15/07/79  
LOCATION: LAT 48.818 (48 49' 4") LONG 97.371 (97 22' 15")

AIR TEMP(C) + 21.0 WEATHER LT WIND-CLEAR  
RELIEF LOW VEGETATION GRASS-MODERATE  
CONTAMINANTS NONE STREAM FLOW(M/SEC) NONE

SURFACE GEOL UNIT QAL RESULTS REQ NO, RELEASED B01031

WATER: WIDTH(M) 2.00 DEPTH(M) 1.00 LEVEL NORMAL  
BED MATERIAL SILT SAMPLE: COLOR M-GY-BK ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 30

REMARKS:

J-38 BARTHGATE SE 7.5' MAP, SAMPLE TAKEN 25M UPSTREAM OF ROAD, START 15M UPSTREAM OF PHONE LINE, OVER 20M. INTERVAL;

606956 TYPE WELL WATER REPLICATE SAMPLER RLB  
PHASE 2 MAP NM1412 SITE 0656 TIME TAKEN 10/16/07/79

AIR TEMP(C) + 23.0 WEATHER CALM-CLEAR  
RELIEF FLAT VEGETATION DECIDUOUS-MODERATE

LOCATION: LAT 48.878 (48 52' 40") LONG 97.476 (97 28' 33")  
 SURFACE GEOL UNIT QAL RESULTS REQ NO , RELEASED 801031

CONTAMINANTS URBAN

SAMPLE: COLOR U-WH-GY ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 750 DISSOLVED OXYGEN (PPM) 4.4  
 WATER TEMP (C) + 10.7 VISIBILITY (M) 4.00 PH 6.5 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 790 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 786  
 APPEARANCE MURKY DISCHARGE (L/M) 0.00  
 PRODUCING HORIZON QAL CONFIDENCE POSSIBLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE UNKNOWN POWER CLASSIFICATION OTHER CASING GALVANIZED PIPE COMPOSITION OTHER  
 METERS FROM HEAD 0 WITH RESPECT TO PRESSURE TANK NONE USE NONE PUMPING FREQUENCY RARE  
 DEPTH TO PROD HORIZON (M) 5 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH (M) 5 CONFIDENCE OF WELL DEPTH POSSIBLE SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

REMARKS:

1-60 SURFACE WATER, TOWN OF BATHGATE;  
 1-78 BATHGATE 7.5' MAP, "NO ADDRESS", SAMPLE 5M. W. OF HOUSE FROM PIPE, WELL UNDER GREEN BOX;  
 3-19 LITER BOTTLE;  
 3-21 NO PIPE;

606957 TYPE WELL WATER REPLICATE SAMPLER RLB  
 PHASE 2 MAP NM1412 SITE 0657 TIME TAKEN 11/16/07/79  
 LOCATION: LAT 48.866 (48 51' 57") LONG 97.409 (97 24' 32")  
 SURFACE GEOL UNIT QAL RESULTS REQ YES , RELEASED 801031

AIR TEMP (C) + 25.0 WEATHER CALM-CLEAR  
 RELIEF FLAT VEGETATION DECIDUOUS-MODERATE  
 CONTAMINANTS OTHER

SAMPLE L COLOR L-OR-YL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 500 DISSOLVED OXYGEN (PPM) 9.4  
 WATER TEMP (C) + 11.3 VISIBILITY (M) 5.00 PH 9.4 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 130 P ALKALINITY (PPM) 42 M ALKALINITY (PPM) 122  
 APPEARANCE MURKY DISCHARGE (L/M) 0.00  
 PRODUCING HORIZON QAL CONFIDENCE POSSIBLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE UNKNOWN POWER CLASSIFICATION OTHER CASING OTHER PIPE COMPOSITION OTHER  
 METERS FROM HEAD 0 WITH RESPECT TO PRESSURE TANK NONE USE NONE PUMPING FREQUENCY RARE  
 DEPTH TO PROD HORIZON (M) 14 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH (M) 14 CONFIDENCE OF WELL DEPTH POSSIBLE SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

REMARKS:

1-38 HAMILTON 7.5' MAP, SAMPLE FROM WELL 2M. W. OF HOUSE, WELL UNDER CONCRETE CAP;  
 1-60 SURFACE WATER;  
 1-78 ADAM GARZA & C/O KENNETH MCOLL & BATHGATE, N.D. 58216;  
 3-19 LITER BOTTLE;  
 3-20 CONCRETE;  
 3-21 NO PIPE;

606958 TYPE WELL WATER REPLICATE SAMPLER RLB  
 PHASE 2 MAP NM1412 SITE 0658 TIME TAKEN 12/16/07/79  
 LOCATION: LAT 48.834 (48 50' 2") LONG 97.495 (97 29' 42")  
 SURFACE GEOL UNIT QAL RESULTS REQ NO , RELEASED 801031

AIR TEMP (C) + 26.0 WEATHER LT WIND-CLEAR  
 RELIEF FLAT VEGETATION GRASS-MODERATE  
 CONTAMINANTS OTHER

SAMPLE: COLOR L-OR-YL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE  
 WATER TEMP(C) + 13.6  
 TOTAL ALKALINITY (PPM) 314  
 APPEARANCE MURKY  
 PRODUCING HORIZON GAL  
 CONDUCTIVITY (MICROMHOS/CM) 1490  
 VISIBILITY (M) 2.00  
 P. ALKALINITY (PPM) <5  
 DISCHARGE (L/M) 0.00  
 CONFIDENCE POSSIBLE  
 DISSOLVED OXYGEN (PPM) 9.1  
 PH 8.2 LO-ION PAPER  
 M. ALKALINITY (PPM) 330  
 SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE UNKNOWN  
 METERS FROM HEAD 0  
 DEPTH TO PROD HORIZON (M) 8  
 WELL DEPTH (M) 8  
 POWER CLASSIFICATION OTHER  
 WITH RESPECT TO PRESSURE TANK NONE  
 CONFIDENCE OF PRODUCING DEPTH POSSIBLE  
 CONFIDENCE OF WELL DEPTH POSSIBLE  
 CASING OTHER  
 USE NONE  
 SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 SOURCE OF DEPTH INFORMATION GEOL. INFERENCE  
 PIPE COMPOSITION OTHER  
 PUMPING FREQUENCY RARE

REMARKS:

1-38 HAMILTON 7.5' MAP "NO ADDRESS", SAMPLE FROM WELL 4M. S. OF BARN, 20M. E. OF HOUSE;  
 1-60 RAIN WATER;  
 2-63 RECHECKED INCORRECT P ALKALINITY VS. PH;  
 3-19 LITER BOTTLE;  
 3-20 CONCRETE;  
 3-21 NO PIPE;

606959 - TYPE WELL WATER REPLICATE SAMPLER RLB  
 PHASE 2 MAP NM1412 SITE 0659 TIME TAKEN 13/16/07/79 AIR TEMP (C) + 28.0 WEATHER CALM-CLEAR  
 LOCATION: LAT 48.805 (48 48' 18") LONG 97.450 (97 27' 0") RELIEF FLAT VEGETATION GRASS-MODERATE  
 SURFACE GEOL UNIT GAL RESULTS REQ NO ,RELEASED 801031 CONTAMINANTS URBAN  
 SAMPLE: COLOR L-OR-YL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE  
 WATER TEMP(C) + 9.8  
 TOTAL ALKALINITY (PPM) 350  
 APPEARANCE MURKY  
 PRODUCING HORIZON GAL  
 CONDUCTIVITY (MICROMHOS/CM) 1130  
 VISIBILITY (M) 3.00  
 P. ALKALINITY (PPM) <5  
 DISCHARGE (L/M) 10.00  
 CONFIDENCE POSSIBLE  
 DISSOLVED OXYGEN (PPM) 4.8  
 PH 7.8 LO-ION PAPER  
 M. ALKALINITY (PPM) 336  
 SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE UNKNOWN  
 METERS FROM HEAD 1  
 DEPTH TO PROD HORIZON (M) 4  
 WELL DEPTH (M) 4  
 POWER CLASSIFICATION HAND  
 WITH RESPECT TO PRESSURE TANK NONE  
 CONFIDENCE OF PRODUCING DEPTH POSSIBLE  
 CONFIDENCE OF WELL DEPTH PROBABLE  
 CASING STEEL  
 USE STOCK  
 SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 SOURCE OF DEPTH INFORMATION USER  
 PIPE COMPOSITION UNKNOWN  
 PUMPING FREQUENCY FREQUENT

REMARKS:

1-38 HAMILTON 7.5' MAP, HAMILTON FAIR GROUNDS HAMILTON N.D., SAMPLE FROM PUMP 2M. S. OF W. BARN, WELL BENEATH PUMP;  
 1-60 TOWN OF HAMILTON;

606960 - TYPE WELL WATER REPLICATE SAMPLER RLB  
 PHASE 2 MAP NM1412 SITE 0660 TIME TAKEN 14/16/07/79 AIR TEMP (C) + 27.0 WEATHER CALM-CLEAR  
 LOCATION: LAT 48.833 (48 49' 58") LONG 97.399 (97 23' 56") RELIEF FLAT VEGETATION DECIDUOUS-MODERATE  
 SURFACE GEOL UNIT GAL RESULTS REQ YES ,RELEASED 801031 CONTAMINANTS OTHER  
 SAMPLE: COLOR L-BN-YL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE  
 WATER TEMP(C) + 12.3  
 TOTAL ALKALINITY (PPM) 126  
 APPEARANCE MURKY  
 CONDUCTIVITY (MICROMHOS/CM) 640  
 VISIBILITY (M) 2.00  
 P. ALKALINITY (PPM) <5  
 DISCHARGE (L/M) 10.00  
 DISSOLVED OXYGEN (PPM) 3.0  
 PH 7.5 LO-ION PAPER  
 M. ALKALINITY (PPM) 136

PRODUCING HORIZON QPG CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION HAND CASING STEEL PIPE COMPOSITION STEEL
METERS FROM HEAD WITH RESPECT TO PRESSURE TANK NONE USE STOCK/TIRIG PUMPING FREQUENCY INFREQUENT
DEPTH TO PROD HORIZON(M) 45 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION OWNER
WELL DEPTH(M) 45 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 HAMILTON 7.5' MAP, SAMPLE FROM PUMP 15M. S.W. OF HOUSE, WELL BELOW PUMP;
1-60 SURFACE WATER;
1-78 FREDDY KENEY & HAMILTON N.D. 58238.

606961 TYPE WELL WATER REPLICATE SAMPLER RLB AIR TEMP(C) + 27.0 WEATHER LT WIND-PT CLDY
PHASE 2 MAP NH1412 SITE 0661 TIME TAKEN 16/16/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
LOCATION: LAT 48.843(48 50' 34") LONG 97.317(97 19' 1") CONTAMINANTS NONE SAMPLE: COLOR U-OR-YL ODOR NONE
SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHQS/CM) 1360 DISSOLVED OXYGEN(PPM) 3.8
WATER TEMP(C) + 9.1 VISIBILITY(M) 5.00 PH 7.1 LO-ION PAPER
TOTAL ALKALINITY(PPM) 200 P. ALKALINITY(PPM) <5 M. ALKALINITY(PPM) 218
APPEARANCE CLEAR DISCHARGE(L/M) 10.00
PRODUCING HORIZON QTL CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION HAND CASING OTHER PIPE COMPOSITION STEEL
METERS FROM HEAD WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY FREQUENT
DEPTH TO PROD HORIZON(M) 3 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE
WELL DEPTH(M) 3 CONFIDENCE OF WELL DEPTH POSSIBLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 BARTHGATE SE 7.5' MAP, SAMPLE FROM PUMP 35M. SW OF HOUSE, 2M. W. OF STORAGE BUILDING;
1-78 SAM. HERB & BARTHGATE N.D. 1

606963 TYPE WELL WATER REPLICATE SAMPLER RLB AIR TEMP(C) + 24.0 WEATHER CALM-PT CLDY
PHASE 2 MAP NH1412 SITE 0663 TIME TAKEN 17/16/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE
LOCATION: LAT 48.859(48 51' 32") LONG 97.318(97 19' 4") CONTAMINANTS NONE SAMPLE: COLOR -CL ODOR NONE
SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHQS/CM) 310 DISSOLVED OXYGEN(PPM) 2.5
WATER TEMP(C) + 11.7 VISIBILITY(M) CLEAR PH 7.5 LO-ION PAPER
TOTAL ALKALINITY(PPM) 330 P. ALKALINITY(PPM) <5 M. ALKALINITY(PPM) 322
APPEARANCE CLEAR DISCHARGE(L/M) 20.00
PRODUCING HORIZON QTL CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION ELECTRIC CASING OTHER PIPE COMPOSITION PLASTIC
METERS FROM HEAD WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY FREQUENT
DEPTH TO PROD HORIZON(M) 5 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE
WELL DEPTH(M) 5 CONFIDENCE OF WELL DEPTH POSSIBLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 BARTHGATE SE 7.5' MAP, SAMPLE FAUCET ON E. SIDE OF HOUSE, WELL E. OF FAUCET NEXT TO BINS;  
 1-78 BILL CRAIG & BATHGATE N.D. 58216;  
 3-20 CONCRETE;

606964 TYPE WELL WATER REPLICATE SAMPLER RLB AIR TEMP(C) + 24.0 WEATHER CALM-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0664 TIME TAKEN 17/16/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.919 (48 55' 0") LONG 97.270 (97 16' 12") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL - ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 1400 DISSOLVED OXYGEN(PPM) 6.8  
 WATER TEMP(C) + 13.5 VISIBILITY(M) CLEAR PH 7.1 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 660 P. ALKALINITY(PPM) 45 M. ALKALINITY(PPM) 645  
 APPEARANCE CLEAR DISCHARGE(L/M) 15.00  
 PRODUCING HORIZON QTL CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION ELECTRIC CASING GALVANIZED PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 15 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/IRRIG. PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON(M) 4 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 4 CONFIDENCE OF WELL DEPTH POSSIBLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 BARTHGATE NE 7.5' MAP, SAMPLE FROM BATHROOM FAUCET, WELL NE OF HOUSE;  
 1-78 KENDALL SIMMONS & PEMBINA N.D. 58271

606965 TYPE WELL WATER REPLICATE SAMPLER RLB AIR TEMP(C) + 23.0 WEATHER LT WIND-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0665 TIME TAKEN 18/16/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.789 (48 47' 20") LONG 97.289 (97 17' 20") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL - ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 2130 DISSOLVED OXYGEN(PPM) 6.8  
 WATER TEMP(C) + 12.5 VISIBILITY(M) CLEAR PH 7.1 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 504 P. ALKALINITY(PPM) 45 M. ALKALINITY(PPM) 512  
 APPEARANCE CLEAR DISCHARGE(L/M) 5.00  
 PRODUCING HORIZON QTL CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION HAND CASING OTHER PIPE COMPOSITION GALVANIZED  
 METERS FROM HEAD 1 WITH RESPECT TO PRESSURE TANK NONE USE IRRIGATION PUMPING FREQUENCY INFREQUENT  
 DEPTH TO PROD HORIZON(M) 10 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 10 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 BARTHGATE SE 7.5' MAP, SAMPLE FROM PUMP 40M. NW OF HOUSE, WELL BELOW IT;  
 1-78 RAY KJNER & HAMILTON N.D. 58238;  
 3-20 CONCRETE;

606966 TYPE WELL WATER REPLICATE SAMPLER RLB AIR TEMP(C) + 22.0 WEATHER CALM-CLEAR

PHASE 2 MAP NM1412 SITE 0666 TIME TAKEN 10/16/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.788 (48 47'16") LONG 97.315 (97 18'54") CONTAMINANTS OTHER  
 SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR U-OR-YL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 240 DISSOLVED OXYGEN (PPM) 9.1  
 WATER TEMP (C) + 15.1 VISIBILITY (M) 4.00 PH 8.2 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 162 P ALKALINITY (PPM) 58 M ALKALINITY (PPM) 168  
 APPEARANCE MURKY DISCHARGE (L/H) 0.00  
 PRODUCING HORIZON QTL CONFIDENCE PROBABLE SOURCE GEOL INFERENCE

WELL INFORMATION:

TYPE UNKNOWN POWER CLASSIFICATION OTHER CASING OTHER PIPE COMPOSITION OTHER  
 METERS FROM HEAD 0 WITH RESPECT TO PRESSURE TANK NONE USE NONE PUMPING FREQUENCY RARE  
 DEPTH TO PROD HORIZON (M) 6 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION GEOL INFERENCE  
 WELL DEPTH (M) 6 CONFIDENCE OF WELL DEPTH POSSIBLE SOURCE OF DEPTH INFORMATION GEOL INFERENCE

REMARKS:

1-38 BARTH GATE SE 7.5' MAP, SAMPLE FROM WELL 4M. N. OF HOUSE, UNDER TIN COVER;  
 1-60 SURFACE WATER;  
 1-78 JACK SHARP & HAMILTON N.D. 58238;  
 3-19 LITER BOTTLE;  
 3-20 CEMENT;  
 3-21 NO PIPE;

606967 TYPE STREAM SEDIMENT REPLICATE SAMPLER RLB AIR TEMP (C) + 22.0 WEATHER CALM-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0667 TIME TAKEN 10/19/07/79 RELIEF LOW VEGETATION DECIDUOUS-MODERATE  
 LOCATION: LAT 48.791 (48 47'27") LONG 96.948 (96 56'52") CONTAMINANTS OTHER STREAM FLOW (M/SEC)  
 SURFACE GEOL UNIT QTL RESULTS REQ NO, RELEASED 801031 WATER: WIDTH (M) DEPTH (M) LEVEL DRY  
 BED MATERIAL CLAY SAMPLE: COLOR M-GY-BK ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 40

REMARKS:

1-38 HALLOCK 15' MAP, SAMPLE TAKEN 100M. UPSTREAM OF INTERSECTION, START AT LARGE BUSHES BY EDGE OF FIELD, OVER 20M. INTERVAL;  
 1-60 SOIL;

606968 TYPE STREAM SEDIMENT REPLICATE SAMPLER RLB AIR TEMP (C) + 24.0 WEATHER CALM-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0668 TIME TAKEN 11/19/07/79 RELIEF LOW VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.828 (48 49'40") LONG 96.907 (96 54'25") CONTAMINANTS OTHER STREAM FLOW (M/SEC)  
 SURFACE GEOL UNIT QPG RESULTS REQ NO, RELEASED 801031 WATER: WIDTH (M) DEPTH (M) LEVEL DRY  
 BED MATERIAL CLAY SAMPLE: COLOR D-BK-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 30

REMARKS:

1-38 HALLOCK 15' MAP, SAMPLE 30M. UPSTREAM OF ROAD, START AT SMALL LEAF TREES, OVER 20M. INTERVAL;  
 1-60 SOIL;



606969 TYPE STREAM SEDIMENT REPLICATE SAMPLER RLB AIR TEMP(C) + 25.0 WEATHER LT WIND-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0669 TIME TAKEN 11/19/07/79 RELIEF LOW VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.849( 48 50'53") LONG 96.994( 96 59'38") CONTAMINANTS OTHER STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT QTL RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL CLAY SAMPLE: COLOR M-GY-BK ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 30

## REMARKS:

1-38 HALLOCK 15' MAP, SAMPLE 25M UPSTREAM OF ROAD, START UPSTREAM OF POOL, OVER 20M INTERVAL;  
 1-60 SOLL

606970 TYPE STREAM SEDIMENT REPLICATE SAMPLER RLB AIR TEMP(C) + 25.0 WEATHER LT WIND-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0670 TIME TAKEN 12/19/07/79 RELIEF LOW VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 48.848( 48 50'52") LONG 96.953( 96 57'10") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT QTL RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL SILT SAMPLE: COLOR D-GY-BK ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 25

## REMARKS:

1-38 HALLOCK 15' MAP, SAMPLE 150M DOWNSTREAM OF ROAD, START W OF RED BUILDING, OVER 20M INTERVAL;

606971 TYPE STREAM SEDIMENT REPLICATE SAMPLER RLB AIR TEMP(C) + 26.0 WEATHER LT WIND-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0671 TIME TAKEN 12/19/07/79 RELIEF LOW VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.849( 48 50'56") LONG 96.918( 96 55' 4") CONTAMINANTS OTHER STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT QTL RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL CLAY SAMPLE: COLOR D-GY-BK ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 30

## REMARKS:

1-38 HALLOCK 15' MAP, SAMPLE 35M UPSTREAM OF ROAD, START AT TALL GRASS, OVER 20M INTERVAL;  
 1-60 WHEAT FIELD;

606972 TYPE STREAM SEDIMENT REPLICATE SAMPLER RLB AIR TEMP(C) + 25.0 WEATHER LT WIND-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0672 TIME TAKEN 12/19/07/79 RELIEF LOW VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.861( 48 51'39") LONG 96.955( 96 57'18") CONTAMINANTS OTHER STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT QTL RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL CLAY SAMPLE: COLOR M-GY-BK ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 30

## REMARKS:

1-38 HALLOCK 15' MAP, SAMPLE 100M S OF ROAD, START 50M UPSTREAM OF INTERSECTION AT EDGE OF FIELD; OVER 20M INTERVAL;  
 1-60 PLOWED FIELDS;

606973 TYPE STREAM SEDIMENT REPLICATE SAMPLER RLB AIR TEMP(C) + 27.0 WEATHER LT WIND-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0673 TIME TAKEN 13/19/07/79 RELIEF LOW VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.876 ( 48 52' 33" ) LONG 96.943 ( 96 56' 34" ) CONTAMINANTS OTHER STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT QPG RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL CLAY SAMPLE: COLOR D-BK-GY ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 30

## REMARKS:

I-38 HALLOCK 15' MAP, SAMPLE TAKEN 225M UPSTREAM OF ROAD, START AT SMALL TREE, OVER 20M INTERVAL;

J-60 SOIL:

606974 TYPE STREAM SEDIMENT REPLICATE SAMPLER RLB AIR TEMP(C) + 27.0 WEATHER LT WIND-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0674 TIME TAKEN 13/19/07/79 RELIEF LOW VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.884 ( 48 53' 2" ) LONG 96.951 ( 96 57' 3" ) CONTAMINANTS OTHER STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT QTL RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL SILT SAMPLE: COLOR D-GY-BK ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 20

## REMARKS:

I-38 HALLOCK 15' MAP, SAMPLE TAKEN 60M UPSTREAM OF ROAD, START WITH SMALL TREE TO THE W, OVER 20M INTERVAL;

I-60 DIRECTLY FROM PLOWED FIELD;

606975 TYPE STREAM SEDIMENT REPLICATE SAMPLER RLB AIR TEMP(C) + 28.0 WEATHER LT WIND-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0675 TIME TAKEN 14/19/07/79 RELIEF LOW VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.900 ( 48 54' 0" ) LONG 96.955 ( 96 57' 18" ) CONTAMINANTS OTHER STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT QPG RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL SILT SAMPLE: COLOR M-GY-BK ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 30

## REMARKS:

I-38 HALLOCK 15' MAP, SAMPLE 30M DOWNSTREAM OF INTERSECTION, START 100M W OF ROAD, OVER 20M INTERVAL;

J-60 SOIL:

606976 TYPE STREAM SEDIMENT REPLICATE SAMPLER RLB AIR TEMP(C) + 29.0 WEATHER LT WIND-PT CLDY  
 PHASE 6 MAP NM1412 SITE 0676 TIME TAKEN 14/19/07/79 RELIEF LOW VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.941 ( 48 56' 27" ) LONG 96.950 ( 96 57' 0" ) CONTAMINANTS NONE STREAM FLOW(M/SEC) NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) 3.00 DEPTH(M) 0.10 LEVEL LOW  
 BED MATERIAL SILT SAMPLE: COLOR M-GY-BK ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 30

## REMARKS:

I-38 HALLOCK 15' MAP, SAMPLE 125M UPSTREAM OF ROAD, START AT ROUND BUSH, OVER 20M INTERVAL;

606977 TYPE STREAM SEDIMENT REPLICATE SAMPLER RLB AIR TEMP(C) + 28.0 WEATHER LT WIND-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0677 TIME TAKEN 14/19/07/79 RELIEF LOW VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.970 (48 58'12") LONG 96.995 (96 59'42") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT QTL RESULTS REQ NO , RELEASED 801031 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL SILT SAMPLE: COLOR M-GY-BK ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 30

## REMARKS:

1-38 HALLOCK 15' MAP, SAMPLE 40M UPSTREAM OF ROAD, START AT CORNER, OVER 10M INTERVAL.

606978 TYPE STREAM SEDIMENT REPLICATE SAMPLER RLB AIR TEMP(C) + 27.0 WEATHER CALM-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0678 TIME TAKEN 15/19/07/79 RELIEF LOW VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.979 (48 58'44") LONG 96.972 (96 58'19") CONTAMINANTS OTHER STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT QPG RESULTS REQ NO , RELEASED 801031 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL CLAY SAMPLE: COLOR M-GY-BK ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 30

## REMARKS:

1-38 HALLOCK 15' MAP, SAMPLE TAKEN 30M UPSTREAM OF ROAD, START AFTER SMALL POOL, OVER 20M INTERVAL;  
 1-60 SOIL FROM WHEAT FIELD;

606979 TYPE STREAM SEDIMENT REPLICATE SAMPLER RLB AIR TEMP(C) + 27.0 WEATHER LT WIND-CLEAR  
 PHASE 2 MAP NM1412 SITE 0679 TIME TAKEN 15/19/07/79 RELIEF LOW VEGETATION DECIDUOUS-MODERATE  
 LOCATION: LAT 48.944 (48 56'38") LONG 96.863 (96 51'46") CONTAMINANTS NONE STREAM FLOW(M/SEC) STAG  
 SURFACE GEOL UNIT QPG RESULTS REQ NO , RELEASED 801031 WATER: WIDTH(M) 2.00 DEPTH(M) 0.20 LEVEL POOLS  
 BED MATERIAL SILT SAMPLE: COLOR M-GY-BK ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 30

## REMARKS:

1-38 HALLOCK 15' MAP, SAMPLE 35M UPSTREAM OF ROAD, START IN CLUMP OF POPLARS, OVER 20M INTERVAL.

606980 TYPE STREAM SEDIMENT REPLICATE SAMPLER RLB AIR TEMP(C) + 27.0 WEATHER CALM-CLEAR  
 PHASE G MAP NM1412 SITE 0680 TIME TAKEN 15/19/07/79 RELIEF LOW VEGETATION DECIDUOUS-MODERATE  
 LOCATION: LAT 48.866 (48 51'57") LONG 96.798 (96 47'52") CONTAMINANTS NONE STREAM FLOW(M/SEC) 0.10  
 SURFACE GEOL UNIT QTL RESULTS REQ NO , RELEASED 801031 WATER: WIDTH(M) 4.00 DEPTH(M) 0.50 LEVEL NORMAL  
 BED MATERIAL PEBBLE SAMPLE: COLOR M-OR-BN ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 05

## REMARKS:

1-38 HALLOCK 15' MAP, SAMPLE 50M UPSTREAM OF ROAD, START AT LARGE ROCK, OVER 25M INTERVAL.

606981 TYPE STREAM SEDIMENT REPLICATE SAMPLER RLB AIR TEMP(C) + 27.0 WEATHER LT WIND-CLEAR  
 PHASE 2 MAP NM1412 SITE 0681 TIME TAKEN 16/19/07/79 RELIEF LOW VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.772( 48 46'19" ) LONG 96.790( 96 47'24" ) CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT QPG RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL SILT SAMPLE: COLOR M-GY-BK ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 30

## REMARKS:

1-38 HALLOCK 15' MAP, SAMPLE TAKEN 60M UPSTREAM OF INTERSECTION, START AT TUNNEL OF TREES, OVER 20M INTERVAL;

606982 TYPE STREAM SEDIMENT REPLICATE SAMPLER RLB AIR TEMP(C) + 27.0 WEATHER LT WIND-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0682 TIME TAKEN 17/19/07/79 RELIEF LOW VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.776( 48 46'33" ) LONG 96.832( 96 49'55" ) CONTAMINANTS OTHER STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT QPG RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL SILT SAMPLE: COLOR M-BK-GY ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 30

## REMARKS:

1-38 HALLOCK 15' MAP, SAMPLE TAKEN 40M UPSTREAM OF ROAD, START 15M UPSTREAM OF PHONE WIRES, OVER 20M INTERVAL;  
 1-60 SAMPLE FROM PLOWED FIELD;

606983 TYPE STREAM SEDIMENT REPLICATE SAMPLER RLB AIR TEMP(C) + 27.0 WEATHER LT WIND-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0683 TIME TAKEN 17/19/07/79 RELIEF LOW VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.770( 48 46'12" ) LONG 96.875( 96 52'30" ) CONTAMINANTS OTHER STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT QPG RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL SILT SAMPLE: COLOR M-GY-BK ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 30

## REMARKS:

1-38 HALLOCK 15' MAP, SAMPLE 160M UPSTREAM OF INTERSECTION, START AT EDGE OF FIELD, OVER 10M INTERVAL;  
 1-60 PLOWED FIELDS;

606984 TYPE STREAM SEDIMENT REPLICATE SAMPLER RLB AIR TEMP(C) + 26.0 WEATHER LT WIND-RAINY  
 PHASE 2 MAP NM1412 SITE 0684 TIME TAKEN 18/19/07/79 RELIEF LOW VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.762( 48 45'43" ) LONG 96.877( 96 52'37" ) CONTAMINANTS OTHER STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT QTL RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL CLAY SAMPLE: COLOR M-BK-GY ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 20

## REMARKS:

1-38 HALLOCK 15' MAP, SAMPLE TAKEN 30M UPSTREAM OF ROAD, START 20M UPSTREAM OF WIRES, OVER 20M INTERVAL;  
 1-60 PLOWED FIELDS;

606985 TYPE STREAM SEDIMENT REPLICATE SAMPLER RLB  
 PHASE 2 MAP NM1412 SITE 0685 TIME TAKEN 18/19/07/79 AIR TEMP(C) + 24.0 WEATHER LT WIND-RAINY  
 LOCATION: LAT 48.756 (48 45'21") LONG 96.913 (96 54'46") RELIEF LOW VEGETATION GRASS-MODERATE  
 CONTAMINANTS OTHER STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT QTL RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL CLAY SAMPLE: COLOR M-BK-GY ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 30

## REMARKS:

1-38 HALLOCK 15' MAP, SAMPLE 30M UPSTREAM OF ROAD, START WITH HOUSE W, OVER 20M INTERVAL;  
 1-60 PLOWED FIELD AND WHEAT.

606986 TYPE STREAM SEDIMENT REPLICATE SAMPLER RLB  
 PHASE 2 MAP NM1412 SITE 0686 TIME TAKEN 19/19/07/79 AIR TEMP(C) + 26.0 WEATHER LT WIND-PT CLDY  
 LOCATION: LAT 48.777 (48 46'37") LONG 96.908 (96 54'28") RELIEF LOW VEGETATION DECIDUOUS-MODERATE  
 CONTAMINANTS NONE STREAM FLOW(M/SEC) NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) 1.00 DEPTH(M) 0.30 LEVEL NORMAL  
 BED MATERIAL SILT SAMPLE: COLOR M-BK-GY ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 30

## REMARKS:

1-38 HALLOCK 15' MAP, SAMPLE 30M UPSTREAM OF BRIDGE, START FIRST BEND, OVER 20M INTERVAL;

607001 TYPE WELL WATER REPLICATE SAMPLER MKH  
 PHASE 2 MAP NM1412 SITE 0701 TIME TAKEN 10/13/07/79 AIR TEMP(C) + 27.0 WEATHER LT WIND-PT CLDY  
 LOCATION: LAT 48.416 (48 24'57") LONG 97.579 (97 34'44") RELIEF FLAT VEGETATION GRASS-MODERATE  
 CONTAMINANTS AGRICULTURA  
 SURFACE GEOL UNIT QAL RESULTS REQ YES ,RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHQS/CM) 2590 DISSOLVED OXYGEN(PPM) 8.2  
 WATER TEMP(C) + 6.7 VISIBILITY(M) CLEAR PH 6.3 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 530 P ALKALINITY(PPM) 5 M ALKALINITY(PPM) 530  
 APPEARANCE CLEAR DISCHARGE(L/M) 8.00  
 PRODUCING HORIZON QAL CONFIDENCE PROBABLE SOURCE GEOL INFERENCE

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING OTHER PIPE COMPOSITION GALVANIZED  
 METERS FROM HEAD 0 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY RARE  
 DEPTH TO PROD HORIZON(M) 4 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 4 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

## REMARKS:

1-38 NASH 7.5' MAP, SAMPLE TAKEN AT PUMP FROM WELL NW OF HOUSE JUST NORTH OF GREEN SHACK;  
 1-60 WHEAT & SUGAR BEET FIELDS;  
 1-78 MANDUS MONSON & ROUTE 2 & GRAFTON, ND 58237;

607002 TYPE STREAM SEDIMENT REPLICATE SAMPLER MKH  
 PHASE 2 MAP NM1412 SITE 0702 TIME TAKEN 10/13/07/79 AIR TEMP(C) + 27.0 WEATHER LT WIND-CLEAR  
 LOCATION: LAT 48.415 (48 24'54") LONG 97.579 (97 34'44") RELIEF FLAT VEGETATION GRASS-MODERATE  
 CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) NONE

SURFACE GEOL UNIT QAL RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) 4.00 DEPTH(M) 2.00 LEVEL NORMAL  
BED MATERIAL SAND SAMPLE: COLOR M-BU-GY ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 20

## REMARKS:

1-38 NASH 7.5' MAP, SAMPLE TAKEN 25M UPSTREAM OF ROAD AT A 10M INTERVAL STARTING AT HOOK ON LEFT BANK OF RIVER;  
1-60 WHEAT FIELDS;

607003 TYPE STREAM SEDIMENT REPLICATE SAMPLER MKH AIR TEMP(C) + 28.0 WEATHER CALM-CLEAR  
PHASE 2 MAP NM1412 SITE 0703 TIME TAKEN 11/13/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
LOCATION: LAT 48.456( 48 27'21") LONG 97.547( 97 32'49") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) NONE

SURFACE GEOL UNIT QAL RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) 4.00 DEPTH(M) 2.00 LEVEL NORMAL  
BED MATERIAL SILT SAMPLE: COLOR D-GY-BK ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 25

## REMARKS:

1-38 NASH 7.5' MAP, SAMPLE TAKEN 25M UPSTREAM OF ROAD AT A 10M INTERVAL STARTING AT FENCE;  
1-60 WHEAT FIELDS, HOUSE;

607004 TYPE STREAM SEDIMENT REPLICATE SAMPLER MKH AIR TEMP(C) + 28.0 WEATHER CALM-PT CLDY  
PHASE G MAP NM1412 SITE 0704 TIME TAKEN 11/13/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
LOCATION: LAT 48.477( 48 28'37") LONG 97.579( 97 34'44") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) NONE

SURFACE GEOL UNIT QAL RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) 4.00 DEPTH(M) 2.00 LEVEL NORMAL  
BED MATERIAL SILT SAMPLE: COLOR D-GY-BK ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 25

## REMARKS:

1-38 NASH 7.5' MAP, SAMPLE TAKEN 25M UPSTREAM OF ROAD AT A 10M INTERVAL STARTING AFTER LARGE LOG ON LEFT BANK;  
1-60 WHEAT & SUGAR BEET FIELDS;

607005 TYPE STREAM SEDIMENT REPLICATE SAMPLER MKH AIR TEMP(C) + 29.0 WEATHER CALM-OVERCAST  
PHASE 2 MAP NM1412 SITE 0705 TIME TAKEN 12/13/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
LOCATION: LAT 48.431( 48 25'51") LONG 97.620( 97 37'12") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)

SURFACE GEOL UNIT QAL RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
BED MATERIAL CLAY SAMPLE: COLOR D-GY-BK ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 75

## REMARKS:

1-38 NASH 7.5' MAP, SAMPLE TAKEN 125M DOWNSTREAM OF ROAD AT A 10M INTERVAL STARTING AT OVERGROWN BED;  
1-60 WHEAT & SUGAR BEET FIELDS, ROAD;

607006 TYPE STREAM SEDIMENT REPLICATE SAMPLER MKH AIR TEMP(C) + 29.0 WEATHER CALM-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0706 TIME TAKEN 12/13/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.412 (48 24'43") LONG 97.645 (97 38'42") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT QAL RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL CLAY SAMPLE: COLOR D-GY-BK ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 75

## REMARKS:

1-38 PARK RIVER 7.5' MAP, SAMPLE TAKEN 25M UPSTREAM OF ROAD AT A 10M INTERVAL STARTING 25M FROM PIPE;  
 1-60 WHEAT FIELDS, SOIL:

607007 TYPE STREAM SEDIMENT REPLICATE SAMPLER MKH AIR TEMP(C) + 31.0 WEATHER CALM-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0707 TIME TAKEN 12/13/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.442 (48 26'31") LONG 97.673 (97 40'22") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) NONE  
 SURFACE GEOL UNIT QAL RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) 4.50 DEPTH(M) 2.00 LEVEL NORMAL  
 BED MATERIAL SILT SAMPLE: COLOR D-GY-BK ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 75

## REMARKS:

1-38 PARK RIVER 7.5' MAP, SAMPLE TAKEN 25M UPSTREAM OF ROAD AT A 10M INTERVAL; STARTING AT HIGH GRASS;  
 1-60 WHEAT & SUGAR BEET FIELDS, SIDE ROAD, ORGANIC MATERIAL MOSTLY;

607008 TYPE STREAM SEDIMENT REPLICATE SAMPLER MKH AIR TEMP(C) + 31.0 WEATHER CALM-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0708 TIME TAKEN 13/13/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.464 (48 27'50") LONG 97.688 (97 41'16") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT QAL RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL CLAY SAMPLE: COLOR D-GY-BU ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 60

## REMARKS:

1-38 PARK RIVER 7.5' MAP, SAMPLE TAKEN 25M UPSTREAM OF ROAD AT A 10M INTERVAL; STARTING AT LARGE TREE;  
 1-60 WHEAT FIELDS:

607009 TYPE STREAM SEDIMENT REPLICATE SAMPLER MKH AIR TEMP(C) + 31.0 WEATHER CALM-CLEAR  
 PHASE 2 MAP NM1412 SITE 0709 TIME TAKEN 13/13/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.347 (48 26'49") LONG 97.732 (97 43'55") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) STAG  
 SURFACE GEOL UNIT QPG RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) 5.00 DEPTH(M) 1.50 LEVEL POOLS  
 BED MATERIAL CLAY SAMPLE: COLOR D-GY-BK ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 75

## REMARKS:

1-38 PARK RIVER 7.5 MAP, SAMPLE TAKEN 25M UPSTREAM OF ROAD AT A 10M INTERVAL STARTING ACROSS FROM DRAINAGE PIPE;  
 1-60 WHEAT FIELDS:

607010 TYPE STREAM SEDIMENT REPLICATE SAMPLER MKH AIR TEMP(C) + 31.0 WEATHER LT WIND-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0710 TIME TAKEN 14/13/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.354 (48 21'14") LONG 97.731 (97 43'51") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) STAG  
 SURFACE GEOL UNIT QTL RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) 4.00 DEPTH(M) 1.50 LEVEL POOLS  
 BED MATERIAL SILT SAMPLE: COLOR D-BN-BK ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 75

## REMARKS:

1-38 PISEK 7.5 MAP, SAMPLE TAKEN 25M UPSTREAM OF ROAD AT A 25M INTERVAL; STARTING AT FIRST BEND;  
 1-60 SUNFLOWER FIELDS, R.R. TRACKS;

607011 TYPE STREAM SEDIMENT REPLICATE SAMPLER MKH AIR TEMP(C) + 31.0 WEATHER CALM-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0711 TIME TAKEN 14/13/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.335 (48 20' 6") LONG 97.709 (97 42'32") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT QPG RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL SILT SAMPLE: COLOR D-GY-BK ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 75

## REMARKS:

1-38 PISEK 7.5' MAP, SAMPLE TAKEN 25M UPSTREAM OF ROAD AT A 10M INTERVAL STARTING 20M FROM PIPE;  
 1-60 SUNFLOWER & WHEAT FIELDS;

607012 TYPE STREAM SEDIMENT REPLICATE SAMPLER MKH AIR TEMP(C) + 31.0 WEATHER LT WIND-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0712 TIME TAKEN 15/13/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.326 (48 19'33") LONG 97.731 (97 43'51") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT QTL RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL SILT SAMPLE: COLOR M-BN-BK ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 75

## REMARKS:

1-38 PISEK 7.5' MAP, SAMPLE TAKEN 25M UPSTREAM OF ROAD AT A 10M INTERVAL; STARTING AT TALL GRASS;  
 1-60 SUNFLOWER & WHEAT FIELDS, SIDE ROAD;

607013 TYPE STREAM SEDIMENT REPLICATE SAMPLER MKH AIR TEMP(C) + 31.0 WEATHER LT WIND-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0713 TIME TAKEN 15/13/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.305 (48 18'18") LONG 97.731 (97 43'51") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT QTL RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL SILT SAMPLE: COLOR D-GY-BK ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 70

## REMARKS:

1-38 PISEK 7.5' MAP, SAMPLE TAKEN 25M UPSTREAM OF ROAD AT A 10M INTERVAL; STARTING AFTER BIG TREE;  
 1-60 WHEAT & SUNFLOWER FIELDS;



607014 TYPE STREAM SEDIMENT REPLICATE SAMPLER MKH AIR TEMP(C) + 31.0 WEATHER LT WIND-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0714 TIME TAKEN 15/13/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.296 (48 17'45") LONG 97.710 (97 42'36") CONTAMINANTS OTHER STREAM FLOW(M/SEC) STAG  
 SURFACE GEOL UNIT OTL RESULTS REQ NO , RELEASED B01031 WATER: WIDTH(M) 4.00 DEPTH(M) 2.00 LEVEL POOLS  
 BED MATERIAL SILT SAMPLE: COLOR D-BN-BK ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 50

REMARKS:  
 1-38 PISEK 7.5' MAP SAMPLE TAKEN 25M UPSTREAM OF ROAD AT A 10M INTERVAL STARTIN EAST OF LARGE BARE AREA;  
 1-60 GRAVEL PILTS UPSTREAM, GARBAGE, WHEAT & SUNFLOWER FIELDS;

607015 TYPE WELL WATER REPLICATE SAMPLER MKH AIR TEMP(C) + 22.0 WEATHER LT WIND-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0715 TIME TAKEN 16/13/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.284 (48 17' 2") LONG 97.696 (97 41'45") CONTAMINANTS AGRICULTURA  
 SURFACE GEOL UNIT QPG RESULTS REQ YES , RELEASED B01031 SAMPLE: COLOR - - -CL ODOR NONE

GENERAL WATER INFORMATION:  
 TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 800 DISSOLVED OXYGEN (PPM) 5.1  
 WATER TEMP (C) + 10.4 VISIBILITY (M) CLEAR PH 6.9 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 248 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 250  
 APPEARANCE CLEAR DISCHARGE (L/M) 20.00  
 PRODUCING HORIZON QPG CONFIDENCE POSSIBLE SOURCE GEOL. INFERENCE

WELL INFORMATION:  
 TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING OTHER PIPE COMPOSITION GALVANIZED  
 METERS FROM HEAD 0 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON (M) 3 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH (M) 3 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:  
 1-38 PISEK 7.5' MAP, SAMPLE TAKEN FROM PUMP AT WELL 10M NORTH OF RED BARN;  
 1-60 SUNFLOWER, WHEAT FIELDS, STOCK CORRAL;  
 1-78 E.J. JELINEK JR & ROUTE 1 & BOX 95 & PISEK, ND 58273;  
 3-20 CEMENT;

607017 TYPE STREAM SEDIMENT REPLICATE SAMPLER MKH AIR TEMP(C) + 22.0 WEATHER -OVERCAST  
 PHASE 2 MAP NM1412 SITE 0717 TIME TAKEN 16/13/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.254 (48 15'14") LONG 97.683 (97 40'58") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ NO , RELEASED B01031 WATER: WIDTH(M) 5.00 DEPTH(M) 2.00 LEVEL NORMAL  
 BED MATERIAL SILT SAMPLE: COLOR D-GY-BK ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 75

REMARKS:  
 1-38 PISEK 7.5' MAP, SAMPLE TAKEN 25M UPSTREAM OF ROAD AT A 10M INTERVAL; STARTING AT TREE;  
 1-60 WHEAT & SUNFLOWER FIELDS, SIDE ROAD, MOSTLY ORGANICS;

607018 TYPE STREAM SEDIMENT REPLICATE SAMPLER MKH AIR TEMP(C) + 22.0 WEATHER -OVERCAST

PHASE 2 MAP NM1412 SITE 0718 TIME TAKEN 17/13/07/79  
 LOCATION: LAT 48.269 (48 16' 8") LONG 97.666 (97 39' 57")

RELIEF FLAT VEGETATION GRASS-MODERATE  
 CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) NONE

SURFACE GEOL UNIT QTL RESULTS REQ NO , RELEASED 801031

WATER: WIDTH(M) 3.00 DEPTH(M) 1.00 LEVEL NORMAL  
 BED MATERIAL SILT SAMPLE: COLOR D-GY-BK ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 75

## REMARKS:

1-38 PJ SEK 7.5' MAP, SAMPLE TAKEN 25M UPSTREAM OF ROAD AT A 10M INTERVAL; STARTING AT TREE;  
 1-60 SUNFLOWER FIELDS;

607019 TYPE STREAM SEDIMENT REPLICATE SAMPLER MKH  
 PHASE 2 MAP NM1412 SITE 0719 TIME TAKEN 17/13/07/79  
 LOCATION: LAT 48.274 (48 16' 26") LONG 97.623 (97 37' 22")

AIR TEMP(C) + 22.0 WEATHER LT WIND-OVERCST  
 RELIEF FLAT VEGETATION GRASS-MODERATE

SURFACE GEOL UNIT QPG RESULTS REQ NO , RELEASED 801031

CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL SAND SAMPLE: COLOR D-GY-BK ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 45

## REMARKS:

1-38 VESELEYVILLE 7.5 MAP, SAMPLE TAKEN 25M UPSTREAM OF ROAD AT A 10M INTERVAL; STARTING AT DRY POOL;  
 1-60 WHEAT FIELDS;

607020 TYPE STREAM SEDIMENT REPLICATE SAMPLER MKH  
 PHASE 2 MAP NM1412 SITE 0720 TIME TAKEN 17/13/07/79  
 LOCATION: LAT 48.295 (48 17' 42") LONG 97.627 (97 37' 37")

AIR TEMP(C) + 25.0 WEATHER CALM-OVERCST  
 RELIEF FLAT VEGETATION GRASS-MODERATE

SURFACE GEOL UNIT QPG RESULTS REQ NO , RELEASED 801031

CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL SILT SAMPLE: COLOR D-GY-BK ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 65

## REMARKS:

1-38 VESELEYVILLE 7.5' MAP, SAMPLE TAKEN 25M UPSTREAM OF ROAD AT A 10M INTERVAL; STARTING AT LARGE TREE L  
 1-60 WHEAT FIELDS;

607021 TYPE STREAM SEDIMENT REPLICATE SAMPLER MKH  
 PHASE G MAP NM1412 SITE 0721 TIME TAKEN 17/13/07/79  
 LOCATION: LAT 48.334 (48 20' 2") LONG 97.623 (97 37' 22")

AIR TEMP(C) + 25.0 WEATHER CALM-OVERCST  
 RELIEF FLAT VEGETATION GRASS-MODERATE

SURFACE GEOL UNIT QPG RESULTS REQ NO , RELEASED 801031

CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL SILT SAMPLE: COLOR M-GY-BK ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 70

## REMARKS:

1-38 VESELEYVILLE 7.5' MAP, SAMPLE TAKEN 25M UPSTREAM OF ROAD AT A 10M INTERVAL; STARTING AFTER FENCE;  
 1-60 WHEAT & SUNFLOWER FIELDS; MOSTLY SOIL;

607022 TYPE STREAM SEDIMENT REPLICATE SAMPLER MKH AIR TEMP (C) + 25.0 WEATHER CALM-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0722 TIME TAKEN 17/13/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.320 ( 48 19'12" ) LONG 97.557 ( 97 33'25" ) CONTAMINANTS AGRICULTURA STREAM FLOW (M/SEC) NONE  
 SURFACE GEOL UNIT QAL RESULTS REQ NO , RELEASED 801031 WATER: WIDTH (M) 3.00 DEPTH (M) 1.00 LEVEL NORMAL  
 BED MATERIAL SILT SAMPLE: COLOR M-BN-BK ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 70

REMARKS:

1-38 VESELEYVILLE 7.5' MAP, SAMPLE TAKEN 50M UPSTREAM OF ROAD AT A 10M INTERVAL STARTING AFTER CROSSING;  
 1-60 WHEAT & SUGAR BEET FIELDS;

607023 TYPE STREAM SEDIMENT REPLICATE SAMPLER MKH AIR TEMP (C) + 31.0 WEATHER CALM-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0723 TIME TAKEN 13/13/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.495 ( 48 29'42" ) LONG 97.645 ( 97 38'42" ) CONTAMINANTS AGRICULTURA STREAM FLOW (M/SEC) NONE  
 SURFACE GEOL UNIT QAL RESULTS REQ NO , RELEASED 801031 WATER: WIDTH (M) DEPTH (M) LEVEL DRY  
 BED MATERIAL SILT SAMPLE: COLOR D-GY+BK ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 50

REMARKS:

1-38 PARK RIVER 7.5' MAP, SAMPLE TAKEN 25M UPSTREAM OF ROAD AT A 10M INTERVAL STARTING 10M BEFORE QUANSET;  
 1-60 POTATO & WHEAT FIELDS, SIDE ROAD;

607024 TYPE STREAM SEDIMENT REPLICATE SAMPLER MKH AIR TEMP (C) + 25.0 WEATHER CALM-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0724 TIME TAKEN 18/13/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.372 ( 48 22'19" ) LONG 97.514 ( 97 30'50" ) CONTAMINANTS AGRICULTURA STREAM FLOW (M/SEC) NONE  
 SURFACE GEOL UNIT QAL RESULTS REQ NO , RELEASED 801031 WATER: WIDTH (M) 3.00 DEPTH (M) 1.00 LEVEL NORMAL  
 BED MATERIAL CLAY SAMPLE: COLOR M-BN-BK ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 25

REMARKS:

1-38 VESELEYVILLE 7.5 MAP, SAMPLE TAKEN 25M UPSTREAM OF ROAD AT A 10M INTERVAL; STARTING AFTER FALLEN LOG;  
 1-60 SUGAR BEET FIELDS;

607025 TYPE WELL WATER REPLICATE SAMPLER MKH AIR TEMP (C) + 30.0 WEATHER CALM-CLEAR  
 PHASE 2 MAP NM1412 SITE 0725 TIME TAKEN 12/14/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.471 ( 48 28'15" ) LONG 97.703 ( 97 42'10" ) CONTAMINANTS AGRICULTURA  
 SURFACE GEOL UNIT QAL RESULTS REQ NO , RELEASED 801031 SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHQS/CM) 1000 DISSOLVED OXYGEN (PPM) 8.9  
 WATER TEMP (C) + 11.2 VISIBILITY (M) CLEAR PH 6.4 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 270 P-ALKALINITY (PPM) 35 H-ALKALINITY (PPM) 270  
 APPEARANCE CLEAR DISCHARGE (L/M) 20.00  
 PRODUCING HORIZON QAL CONFIDENCE POSSIBLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE	UNKNOWN	POWER CLASSIFICATION	ELECTRIC	CASING	UNKNOWN	PIPE COMPOSITION	UNKNOWN
METERS FROM HEAD	20	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSE/STOCK	PUMPING FREQUENCY	INFREQUENT
DEPTH TO PROD HORIZON(M)	6	CONFIDENCE OF PRODUCING DEPTH	POSSIBLE	SOURCE OF PRODUCING INFORMATION	GEOLOGICAL INFERENCE		
WELL DEPTH(M)	6	CONFIDENCE OF WELL DEPTH	POSSIBLE	SOURCE OF DEPTH INFORMATION	GEOLOGICAL INFERENCE		

REMARKS:

1-38 PARK RIVER 7.5' MAP, SAMPLE TAKEN AT PUMP IN FRONT OF OLD HOUSE, EXACT LOCATION OF WELL UNKNOWN;  
 1-60 WHEAT FIELDS;  
 1-78 MARK VEUM & PARK RIVER, N.D.

607026	TYPE	WELL WATER	REPLICATE	SAMPLER MKH	AIR TEMP(C)	+ 32.0	WEATHER	LT WIND-CLEAR
	PHASE 2	MAP NM1412	SITE 0726	TIME TAKEN 13/14/07/79	RELIEF	FLAT	VEGETATION	GRASS-MODERATE
	LOCATION:	LAT 48.476 (48 28' 33")	LONG 97.600 (97 36' 0")	CONTAMINANTS	AGRICULTURA			
	SURFACE GEOL UNIT	QAL	RESULTS REQ	YES	RELEASED	801031	SAMPLE	COLOR - - -CL - ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	6460	DISSOLVED OXYGEN(PPM)	2.5
WATER TEMP(C)	+ 9.9	VISIBILITY(M)	CLEAR	PH 6.5	LO-ION PAPER
TOTAL ALKALINITY(PPM)	710	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	710
APPEARANCE	CLEAR	DISCHARGE(L/M)	8.00	SOURCE - GEOLOGICAL INFERENCE	
PRODUCING HORIZON	OPG	CONFIDENCE	POSSIBLE		

WELL INFORMATION:

TYPE	UNKNOWN	POWER CLASSIFICATION	ARTESIAN	CASING	UNKNOWN	PIPE COMPOSITION	GALVANIZED
METERS FROM HEAD	0	WITH RESPECT TO PRESSURE TANK	NONE	USE	STOCK	PUMPING FREQUENCY	FREQUENT
DEPTH TO PROD HORIZON(M)	50	CONFIDENCE OF PRODUCING DEPTH	POSSIBLE	SOURCE OF PRODUCING INFORMATION	GEOLOGICAL INFERENCE		
WELL DEPTH(M)	50	CONFIDENCE OF WELL DEPTH	POSSIBLE	SOURCE OF DEPTH INFORMATION	GEOLOGICAL INFERENCE		

REMARKS:

1-38 NASH 7.5 MAP, SAMPLE TAKEN AT WELL IN CORRAL SOUTH OF HOUSE;  
 1-60 WHEAT & SNFLOWER FIELDS;  
 1-78 HAROLD GULLICK & HOOPLE, ND 58243;

607027	TYPE	WELL WATER	REPLICATE	SAMPLER MKH	AIR TEMP(C)	+ 32.0	WEATHER	LT WIND-CLEAR
	PHASE 2	MAP NM1412	SITE 0727	TIME TAKEN 14/14/07/79	RELIEF	FLAT	VEGETATION	GRASS-MODERATE
	LOCATION:	LAT 48.464 (48 27' 50")	LONG 97.554 (97 33' 14")	CONTAMINANTS	AGRICULTURA			
	SURFACE GEOL UNIT	QAL	RESULTS REQ	YES	RELEASED	801031	SAMPLE	COLOR - - -CL - ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	6950	DISSOLVED OXYGEN(PPM)	3.0
WATER TEMP(C)	+ 9.5	VISIBILITY(M)	CLEAR	PH 7.2	LO-ION PAPER
TOTAL ALKALINITY(PPM)	774	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	774
APPEARANCE	CLEAR	DISCHARGE(L/M)	20.00	SOURCE - PUBLICATION	
PRODUCING HORIZON	OPG	CONFIDENCE	HIGH		

WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ARTESIAN	CASING	GALVANIZED	PIPE COMPOSITION	GALVANIZED
METERS FROM HEAD	0	WITH RESPECT TO PRESSURE TANK	NONE	USE	OTHER	PUMPING FREQUENCY	FREQUENT
DEPTH TO PROD HORIZON(M)	54	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	GEOLOGICAL INFERENCE		
WELL DEPTH(M)	54	CONFIDENCE OF WELL DEPTH	PROBABLE	SOURCE OF DEPTH INFORMATION	OWNER		

REMARKS:

1-38 NASH 7.5 MAP, SAMPLE TAKEN FROM PUMP NEAR RIVER TOOH NE OF HOUSE;  
 1-60 WHEAT & SUNFLOWER FIELDS, RIVER;  
 1-78 NELS JOHNSON & GRAFTON, ND;

607028 TYPE WELL WATER REPLICATE SAMPLER MKH AIR TEMP(C) + 32.0 WEATHER LT WIND-CLEAR  
 PHASE 2 MAP NM1412 SITE 0728 TIME TAKEN 15/14/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.431 (48 25' 51") LONG 97.648 (97 38' 52") CONTAMINANTS AGRICULTURA  
 SURFACE GEOL UNIT QAL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL - ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 1620 DISSOLVED OXYGEN (PPH) 6.6  
 WATER TEMP (C) + 17.9 VISIBILITY (M) CLEAR PH 7.6 LO-ION PAPER  
 TOTAL ALKALINITY (PPH) 308 P ALKALINITY (PPH) <5 M ALKALINITY (PPH) 308  
 APPEARANCE CLEAR DISCHARGE (L/M) 10.00 SOURCE GEOL. INFERENCE  
 PRODUCING HORIZON QPG CONFIDENCE PROBABLE

WELL INFORMATION:

TYPE UNKNOWN POWER CLASSIFICATION ARTESIAN CASING UNKNOWN PIPE COMPOSITION UNKNOWN  
 METERS FROM HEAD 50 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY CONSTANT  
 DEPTH TO PROD HORIZON (M) 57 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH (M) 57 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION PUBLICATION

REMARKS:

1-38 PARK RIVER 7.5 MAP, SAMPLE TAKEN AT KITCHEN FAUCET, WELL LOCATED 50M WEST OF HOUSE;  
 1-60 WHEAT FIELDS;  
 1-78 JIM THOMPSON & PARK RIVER, ND 58270;

607029 TYPE WELL WATER REPLICATE SAMPLER MKH AIR TEMP(C) + 32.0 WEATHER LT WIND-CLEAR  
 PHASE 2 MAP NM1412 SITE 0729 TIME TAKEN 16/14/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.359 (48 21' 32") LONG 97.601 (97 36' 3") CONTAMINANTS AGRICULTURA  
 SURFACE GEOL UNIT QAL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL - ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 2080 DISSOLVED OXYGEN (PPH) 10.1  
 WATER TEMP (C) + 17.0 VISIBILITY (M) CLEAR PH 7.3 LO-ION PAPER  
 TOTAL ALKALINITY (PPH) 390 P ALKALINITY (PPH) <5 M ALKALINITY (PPH) 390  
 APPEARANCE CLEAR DISCHARGE (L/M) 10.00 SOURCE PUBLICATION  
 PRODUCING HORIZON KGBM CONFIDENCE HIGH

WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION ELECTRIC CASING OTHER PIPE COMPOSITION UNKNOWN  
 METERS FROM HEAD 50 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY CONSTANT  
 DEPTH TO PROD HORIZON (M) 98 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH (M) 98 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION PUBLICATION

REMARKS:

1-38 USESELEYVILLE 7.5' MAP, SAMPLE TAKEN FROM KITCHEN SINK, PUMP 50M SW OF HOUSE BETWEEN TWO DIRT PILES;  
 1-60 WHEAT FIELDS;  
 1-78 MRS. ELVIN BELL & PARK RIVER, ND 58270;  
 3-20 TILE;

607030 TYPE WELL WATER REPLICATE SAMPLER MKH AIR TEMP(C) + 32.0 WEATHER LT WIND-CLEAR  
 PHASE 2 MAP NM1412 SITE 0730 TIME TAKEN 16/14/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.359 (48 21' 32") LONG 97.601 (97 36' 3") CONTAMINANTS AGRICULTURA  
 SURFACE GEOL UNIT QAL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 1170 DISSOLVED OXYGEN (PPH) 2.2  
 WATER TEMP (C) + 9.5 VISIBILITY (M) CLEAR PH 7.6 LO-ION PAPER  
 TOTAL ALKALINITY (PPH) 330 P ALKALINITY (PPH) <5 M ALKALINITY (PPH) 330  
 APPEARANCE CLEAR DISCHARGE (L/M) 10.00  
 PRODUCING HORIZON KGBM CONFIDENCE POSSIBLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION HAND CASING OTHER PIPE COMPOSITION GALVANIZED  
 METERS FROM HEAD 0 WITH RESPECT TO PRESSURE TANK NONE USE NONE PUMPING FREQUENCY RARE  
 DEPTH TO PROD HORIZON (M) 100 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH (M) 100 CONFIDENCE OF WELL DEPTH POSSIBLE SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

REMARKS:

1-38 WESELEYVILLE 7.5 MAP, SAMPLE TAKEN FROM PUMP AT WELL 30M SE OF HOUSE;  
 1-60 WHEAT FIELDS;  
 1-78 MRS. ELVIN BELL & PARK RIVER, ND 58270;  
 3-20 TILE;

607031 TYPE WELL WATER REPLICATE SAMPLER MKH AIR TEMP(C) + 32.0 WEATHER LT WIND-CLEAR  
 PHASE 2 MAP NM1412 SITE 0731 TIME TAKEN 17/14/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.349 (48 20' 56") LONG 97.557 (97 33' 25") CONTAMINANTS AGRICULTURA  
 SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 5440 DISSOLVED OXYGEN (PPH) 5.5  
 WATER TEMP (C) + 8.5 VISIBILITY (M) CLEAR PH 7.5 LO-ION PAPER  
 TOTAL ALKALINITY (PPH) 630 P ALKALINITY (PPH) <5 M ALKALINITY (PPH) 630  
 APPEARANCE CLEAR DISCHARGE (L/M) 10.00  
 PRODUCING HORIZON QPG CONFIDENCE POSSIBLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING UNKNOWN PIPE COMPOSITION UNKNOWN  
 METERS FROM HEAD 0 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY CONSTANT  
 DEPTH TO PROD HORIZON (M) 30 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH (M) 30 CONFIDENCE OF WELL DEPTH POSSIBLE SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

REMARKS:

1-38 WESELEYVILLE 7.5 MAP, SAMPLE TAKEN AT PUMP BEHIND BARN AT WELL;  
 1-60 WHEAT FIELDS;  
 1-78 ALEX F BARTA & ROUTE 1 & GRAFION, N.D.;

607032 TYPE WELL WATER REPLICATE SAMPLER MKH AIR TEMP(C) + 32.0 WEATHER LT WIND-CLEAR  
 PHASE 2 MAP NM1412 SITE 0732 TIME TAKEN 17/14/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.334 (48 20' 2") LONG 97.555 (97 33' 18") CONTAMINANTS AGRICULTURA  
 SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE  
 WATER TEMP(C) + 8.6  
 TOTAL ALKALINITY (PPM) 570  
 APPEARANCE CLEAR  
 PRODUCING HORIZON OPG  
 CONDUCTIVITY (MICROMHOS/CM) 4170  
 VISIBILITY (M) CLEAR  
 P ALKALINITY (PPM) <5  
 DISCHARGE (L/M) 12.00  
 CONFIDENCE HIGH  
 DISSOLVED OXYGEN (PPM) 7.9  
 PH 7.6 LO-ION PAPER  
 M ALKALINITY (PPM) 570  
 SOURCE PUBLICATION

WELL INFORMATION:

TYPE DRILLED  
 METERS FROM HEAD 1  
 DEPTH TO PROD HORIZON (M) 37  
 WELL DEPTH (M) 37  
 POWER CLASSIFICATION ELECTRIC  
 WITH RESPECT TO PRESSURE TANK AFTER  
 CONFIDENCE OF PRODUCING DEPTH PROBABLE  
 CONFIDENCE OF WELL DEPTH PROBABLE  
 CASING STEEL  
 USE STOCK  
 SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 SOURCE OF DEPTH INFORMATION GEOL. INFERENCE  
 PIPE COMPOSITION GALVANIZED  
 PUMPING FREQUENCY CONSTANT

REMARKS:

1-38 WESELEYVILLE 7.5' MAP, SAMPLE TAKEN AT WELL IN BARN SE OF HOUSE;  
 1-60 SUNFLOWER & BEAN FIELDS;  
 1-78 GG DUSEK & ROUTE J & GRAFTON, ND 58337;

607033 TYPE WELL WATER REPLICATE SAMPLER MKH  
 PHASE 2 MAP NM1412 SITE 0733 TIME TAKEN 18/14/07/79 AIR TEMP (C) + 30.0 WEATHER LT WIND-CLEAR  
 LOCATION: LAT 48.267 (48 16' 11") LONG 97.548 (97 32' 52") RELIEF FLAT VEGETATION GRASS-MODERATE  
 SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031 CONTAMINANTS AGRICULTURA SAMPLE COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE  
 WATER TEMP (C) + 11.8  
 TOTAL ALKALINITY (PPM) 514  
 APPEARANCE CLEAR  
 PRODUCING HORIZON KGBM  
 CONDUCTIVITY (MICROMHOS/CM) 5290  
 VISIBILITY (M) CLEAR  
 P ALKALINITY (PPM) <5  
 DISCHARGE (L/M) 10.00  
 CONFIDENCE PROBABLE  
 DISSOLVED OXYGEN (PPM) 4.0  
 PH 7.6 LO-ION PAPER  
 M ALKALINITY (PPM) 514  
 SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED  
 METERS FROM HEAD 50  
 DEPTH TO PROD HORIZON (M) 85  
 WELL DEPTH (M) 85  
 POWER CLASSIFICATION ELECTRIC  
 WITH RESPECT TO PRESSURE TANK AFTER  
 CONFIDENCE OF PRODUCING DEPTH PROBABLE  
 CONFIDENCE OF WELL DEPTH PROBABLE  
 CASING GALVANIZED  
 USE HOUSEHOLD  
 SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 SOURCE OF DEPTH INFORMATION OWNER  
 PIPE COMPOSITION PLASTIC  
 PUMPING FREQUENCY CONSTANT

REMARKS:

1-38 WESELEYVILLE 7.5' MAP, SAMPLE TAKEN AT PUMP 10M SOUTH OF HOUSE, WELL LOCATED 50M SE OF HOUSE UNDER GRAY ROOF;  
 1-60 BARLEY, WHEAT, POTATOE & SUNFLOWER FIELDS;  
 1-78 FRANK W. BARTA & PISEK, ND 58273;

607034 TYPE WELL WATER REPLICATE SAMPLER MKH  
 PHASE 2 MAP NM1412 SITE 0734 TIME TAKEN 18/14/07/79 AIR TEMP (C) + 30.0 WEATHER LT WIND-CLEAR  
 LOCATION: LAT 48.271 (48 16' 15") LONG 97.612 (97 36' 43") RELIEF FLAT VEGETATION GRASS-MODERATE  
 SURFACE GEOL UNIT OPG RESULTS REQ YES, RELEASED 801031 CONTAMINANTS AGRICULTURA SAMPLE COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE  
 WATER TEMP (C) + 15.6  
 TOTAL ALKALINITY (PPM) 508  
 APPEARANCE CLEAR  
 PRODUCING HORIZON KGBM  
 CONDUCTIVITY (MICROMHOS/CM) 5490  
 VISIBILITY (M) CLEAR  
 P ALKALINITY (PPM) <5  
 DISCHARGE (L/M) 10.00  
 CONFIDENCE HIGH  
 DISSOLVED OXYGEN (PPM) 4.6  
 PH 7.9 LO-ION PAPER  
 M ALKALINITY (PPM) 508  
 SOURCE PUBLICATION

WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING GALVANIZED	PIPE COMPOSITION PLASTIC
METERS FROM HEAD	50	WITH RESPECT TO PRESSURE TANK	AFTER	USE HOUSE/STOCK	PUMPING FREQUENCY CONSTANT
DEPTH TO PROD HORIZON(M)	110	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	GEOL. INFERENCE
WELL DEPTH(M)	110	CONFIDENCE OF WELL DEPTH	PROBABLE	SOURCE OF DEPTH INFORMATION	OWNER

REMARKS:

1-38 UESELEYVILLE 7.5' MAP, SAMPLE TAKEN AT KITCHEN FAUCET, WELL LOCATED 50M DUE WEST OF HOUSE;  
 1-60 WHEAT & SUNFLOWER FIELDS, SUBMERSIBLE PUMP;  
 1-78 FRANK SOBOLIK & PISEK, ND 58273;

607035	TYPE WELL WATER	REPLICATE	SAMPLER MKH	AIR TEMP(C) + 30.0	WEATHER LT WIND-CLEAR
	PHASE 2 MAP NM1412	SITE 0735	TIME TAKEN 19/14/07/79	RELIEF FLAT	VEGETATION GRASS-MODERATE
	LOCATION: LAT 48.324 (48 19'26")	LONG 97.614 (97 36'50")		CONTAMINANTS AGRICULTURA	
	SURFACE GEOL UNIT QPG	RESULTS REQ YES	RELEASED 801031	SAMPLE: COLOR	-CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	5190	DISSOLVED OXYGEN(PPM)	6.1
WATER TEMP(C)	+ 9.4	VISIBILITY(M)	CLEAR	PH 8.0 LO-ION PAPER	
TOTAL ALKALINITY(PPM)	600	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	600
APPEARANCE	CLEAR	DISCHARGE(L/M)	10.00	SOURCE PUBLICATION	
PRODUCING HORIZON	KGBM	CONFIDENCE	HIGH		

WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING STEEL	PIPE COMPOSITION GALVANIZED
METERS FROM HEAD	0	WITH RESPECT TO PRESSURE TANK	NONE	USE HOUSE/STOCK	PUMPING FREQUENCY CONSTANT
DEPTH TO PROD HORIZON(M)	89	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	GEOL. INFERENCE
WELL DEPTH(M)	89	CONFIDENCE OF WELL DEPTH	PROBABLE	SOURCE OF DEPTH INFORMATION	OWNER

REMARKS:

1-38 UESELEYVILLE 7.5 MAP, SAMPLE TAKEN FROM PUMP AT WELL IN FRONT OF OLD BARN NW OF HOUSE;  
 1-60 BARLEY FIELDS;  
 1-78 CHRIS NOVAK & PISEK, N.D. 58273;

607036	TYPE WELL WATER	REPLICATE	SAMPLER MKH	AIR TEMP(C) + 30.0	WEATHER LT WIND-CLEAR
	PHASE 2 MAP NM1412	SITE 0736	TIME TAKEN 20/14/07/79	RELIEF FLAT	VEGETATION GRASS-MODERATE
	LOCATION: LAT 49.341 (49 20'27")	LONG 97.699 (97 41'56")		CONTAMINANTS AGRICULTURA	
	SURFACE GEOL UNIT QTL	RESULTS REQ YES	RELEASED 801031	SAMPLE: COLOR	-CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	1200	DISSOLVED OXYGEN(PPM)	12.4
WATER TEMP(C)	+ 10.4	VISIBILITY(M)	CLEAR	PH 8.0 LO-ION PAPER	
TOTAL ALKALINITY(PPM)	252	P ALKALINITY(PPM)	55	M ALKALINITY(PPM)	252
APPEARANCE	CLEAR	DISCHARGE(L/M)	10.00	SOURCE GEOL. INFERENCE	
PRODUCING HORIZON	QPG	CONFIDENCE	POSSIBLE		

WELL INFORMATION:

TYPE	DUG	POWER CLASSIFICATION	ELECTRIC	CASING OTHER	PIPE COMPOSITION GALVANIZED
METERS FROM HEAD	500	WITH RESPECT TO PRESSURE TANK	AFTER	USE HOUSE/STOCK	PUMPING FREQUENCY CONSTANT
DEPTH TO PROD HORIZON(M)	5	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	GEOL. INFERENCE
WELL DEPTH(M)	5	CONFIDENCE OF WELL DEPTH	PROBABLE	SOURCE OF DEPTH INFORMATION	OWNER

REMARKS:

1-38 PISEK 7.5' MAP, SAMPLE TAKEN AT PUMP AT NE CORNER OF ALUMINUM BUILDING, WELL 500M DUE NORTH;



1-60 BARLEY FIELD;  
1-78 LOREN KADLAC & PISEK, ND 58273;  
3-20 CEMENT;

607037 TYPE WELL WATER REPLICATE SAMPLER MKH AIR TEMP(C) + 28.0 WEATHER LT WIND-CLEAR  
PHASE 2 MAP NM1412 SITE 0737 TIME TAKEN 20/14/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
LOCATION: LAT 48.384 (48 23' 2") LONG 97.725 (97 43' 30") CONTAMINANTS SEWAGE  
SURFACE GEOL UNIT OPG RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL - ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 3880 DISSOLVED OXYGEN (PPM) 11.2  
WATER TEMP (C) + 8.9 VISIBILITY (M) CLEAR PH 7.1 LO-ION PAPER  
TOTAL ALKALINITY (PPM) 400 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 400  
APPEARANCE CLEAR DISCHARGE (L/M) 20.00 SOURCE PUBLICATION  
PRODUCING HORIZON OPG CONFIDENCE HIGH

WELL INFORMATION:

TYPE UNKNOWN POWER CLASSIFICATION ELECTRIC CASING UNKNOWN PIPE COMPOSITION GALVANIZED  
METERS FROM HEAD 15 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY FREQUENT  
DEPTH TO PROD HORIZON (M) 5 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
WELL DEPTH (M) 5 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION PUBLICATION

REMARKS:

1-38 PARK RIVER 7.5 MAP, SAMPLE TAKEN AT PUMP 5M NORTH OF RED BARN, WELL 15M SOUTH OF OLD HOUSE;  
1-60 BARLEY FIELDS; SEWAGE DISPOSAL PONDS;  
1-78 TED JENSEN & PISEK, ND 58273;

607038 TYPE WELL WATER REPLICATE SAMPLER MKH AIR TEMP(C) + 18.0 WEATHER CALM-OVERCAST  
PHASE 2 MAP NM1412 SITE 0738 TIME TAKEN 11/15/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
LOCATION: LAT 48.805 (48 48' 18") LONG 97.692 (97 41' 31") CONTAMINANTS AGRICULTURAL  
SURFACE GEOL UNIT OPL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL - ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 1310 DISSOLVED OXYGEN (PPM) 5.2  
WATER TEMP (C) + 10.7 VISIBILITY (M) CLEAR PH 7.2 LO-ION PAPER  
TOTAL ALKALINITY (PPM) 300 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 300  
APPEARANCE CLEAR DISCHARGE (L/M) 8.00 SOURCE GEOL. INFERENCE  
PRODUCING HORIZON OPL CONFIDENCE POSSIBLE

WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION ELECTRIC CASING OTHER PIPE COMPOSITION PLASTIC  
METERS FROM HEAD 15 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY CONSTANT  
DEPTH TO PROD HORIZON (M) 5 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
WELL DEPTH (M) 5 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 BACKOO 7.5 MAP, SAMPLE TAKEN AT KITCHEN SINK, WELL LOCATED 1M SOUTH OF OLD WHITE HOUSE FARTHEST EAST;  
1-60 WHEAT FIELDS;  
1-78 RAYMOND ARNOLD & CAVALIER, ND;  
3-20 CEMENT;

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607039 TYPE WELL WATER REPLICATE SAMPLER MKH AIR TEMP(C) + 18.0 WEATHER LT WIND-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0739 TIME TAKEN 11/15/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.828 (48 49'40") LONG 97.708 (97 42'28") CONTAMINANTS URBAN  
 SURFACE GEOL UNIT QPL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 1330 DISSOLVED OXYGEN (PPM) 4.0  
 WATER TEMP (C) + 11.7 VISIBILITY (M) CLEAR PH 7.5 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 400 P ALKALINITY (PPM) 25 M ALKALINITY (PPM) 400  
 APPEARANCE CLEAR DISCHARGE (L/M) 10.00  
 PRODUCING HORIZON QPL CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION ELECTRIC CASING OTHER PIPE COMPOSITION UNKNOWN  
 METERS FROM HEAD 20 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY CONSTANT  
 DEPTH TO PROD HORIZON (M) 6 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH (M) 6 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 BACKOO 7.5' MAP, SAMPLE TAKEN AT KITCHEN FAUCET, WELL LOCATED 25M WEST OF HOUSE BURIED UNDER GROUND;  
 1-60 1 MILE SOUTH OF BACKOO;  
 1-78 MR. LETEXIER & BACKOO, ND 58215;  
 3-20 CEMENT;

607040 TYPE WELL WATER REPLICATE SAMPLER MKH AIR TEMP(C) + 20.0 WEATHER LT WIND-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0740 TIME TAKEN 12/15/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.878 (48 52'40") LONG 97.708 (97 42'28") CONTAMINANTS AGRICULTURA  
 SURFACE GEOL UNIT QTL RESULTS REQ NO, RELEASED 801031 SAMPLE: COLOR - -CL ODOR OTHER

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 1920 DISSOLVED OXYGEN (PPM) 4.7  
 WATER TEMP (C) + 8.3 VISIBILITY (M) CLEAR PH 7.6 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 634 P ALKALINITY (PPM) 25 M ALKALINITY (PPM) 634  
 APPEARANCE CLEAR DISCHARGE (L/M) 20.00  
 PRODUCING HORIZON QTL CONFIDENCE POSSIBLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE UNKNOWN POWER CLASSIFICATION HAND CASING UNKNOWN PIPE COMPOSITION GALVANIZED  
 METERS FROM HEAD 0 WITH RESPECT TO PRESSURE TANK BEFORE USE HOUSEHOLD PUMPING FREQUENCY CONSTANT  
 DEPTH TO PROD HORIZON (M) 12 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH (M) 12 CONFIDENCE OF WELL DEPTH POSSIBLE SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

REMARKS:

1-38 CAVALIER NH 7.5' MAP, SAMPLE TAKEN AT PUMP OVER WELL, WELL LOCATED 20M NORTH OF OLD SHACK NEAR GULLY;  
 1-60 WHEAT & BARLEY FIELDS, ROAD;  
 1-77 METALLIC;  
 1-78 OWNER UNKNOWN;

607041 TYPE WELL WATER REPLICATE SAMPLER MKH AIR TEMP(C) + 26.0 WEATHER LT WIND-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0741 TIME TAKEN 13/15/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.932 (48 55'55") LONG 97.679 (97 40'44") CONTAMINANTS AGRICULTURA  
 SURFACE GEOL UNIT QAL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY (MICROMHOS/CM)	3070	DISSOLVED OXYGEN (PPM)	4.2
WATER TEMP (C)	+ 8.4	VISIBILITY (M)	CLEAR	PH 7.6	LO-ION PAPER
TOTAL ALKALINITY (PPM)	500	P ALKALINITY (PPM)	<5	M ALKALINITY (PPM)	500
APPEARANCE	CLEAR	DISCHARGE (L/M)	20.00		
PRODUCING HORIZON	QAL	CONFIDENCE	PROBABLE	SOURCE GEOL. INFERENCE	

WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	HAND	CASING OTHER	PIPE COMPOSITION	GALVANIZED
METERS FROM HEAD	0	WITH RESPECT TO PRESSURE TANK	NONE	USE HOUSE/STOCK	PUMPING FREQUENCY	CONSTANT
DEPTH TO PROD HORIZON (M)	13	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	GEOL. INFERENCE	
WELL DEPTH (M)	13	CONFIDENCE OF WELL DEPTH	PROBABLE	SOURCE OF DEPTH INFORMATION	OWNER	

REMARKS:

1-38 CAVALIER NW 7.5 MAP, SAMPLE TAKEN AT PUMP OVERWELL 5M NORTH OF NW CORNER OF HOUSE;  
 J-60 SUNFLOWER FIELDS;  
 1-78 RIENOLD STARK & NECHE, ND;  
 3-20 CAST IRON;

607042 TYPE WELL WATER REPLICATE SAMPLER MKH AIR TEMP (C) + 29.0 WEATHER LT WIND-PJ CLDY  
 PHASE 2 MAP NM1412 SITE 0742 TIME TAKEN 14/15/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48 993 (48 59' 34") LONG 97 651 (97 39' 3") CONTAMINANTS AGRICULTURAL  
 SURFACE GEOL UNIT QAL RESULTS REG NO ,RELEASED 801031 SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY (MICROMHOS/CM)	680	DISSOLVED OXYGEN (PPM)	5.9
WATER TEMP (C)	+ 11.5	VISIBILITY (M)	CLEAR	PH 8.0	LO-ION PAPER
TOTAL ALKALINITY (PPM)	370	P ALKALINITY (PPM)	<5	M ALKALINITY (PPM)	370
APPEARANCE	CLEAR	DISCHARGE (L/M)	15.00		
PRODUCING HORIZON	QAL	CONFIDENCE	PROBABLE	SOURCE GEOL. INFERENCE	

WELL INFORMATION:

TYPE	UNKNOWN	POWER CLASSIFICATION	HAND	CASING UNKNOWN	PIPE COMPOSITION	GALVANIZED
METERS FROM HEAD	0	WITH RESPECT TO PRESSURE TANK	NONE	USE STOCK	PUMPING FREQUENCY	FREQUENT
DEPTH TO PROD HORIZON (M)	6	CONFIDENCE OF PRODUCING DEPTH	POSSIBLE	SOURCE OF PRODUCING INFORMATION	GEOL. INFERENCE	
WELL DEPTH (M)	6	CONFIDENCE OF WELL DEPTH	POSSIBLE	SOURCE OF DEPTH INFORMATION	GEOL. INFERENCE	

REMARKS:

1-38 CAVALIER 7.5 MAP, SAMPLE TAKEN AT PUMP OVER WELL, WELL LOCATED 5M EAST OF NORTHERN-MOST BARN;  
 J-60 SUNFLOWER FIELDS, PJG CORRAL;

607043 TYPE WELL WATER REPLICATE SAMPLER MKH AIR TEMP (C) + 26.0 WEATHER LT WIND-PJ CLDY  
 PHASE 2 MAP NM1412 SITE 0743 TIME TAKEN 14/15/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48 990 (48 59' 24") LONG 97 585 (97 35' 6") CONTAMINANTS OTHER  
 SURFACE GEOL UNIT QAL RESULTS REG NO ,RELEASED 801031 SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY (MICROMHOS/CM)	830	DISSOLVED OXYGEN (PPM)	6.1
WATER TEMP (C)	+ 16.3	VISIBILITY (M)	CLEAR	PH 9.4	LO-ION PAPER
TOTAL ALKALINITY (PPM)	40	P ALKALINITY (PPM)	20	M ALKALINITY (PPM)	40
APPEARANCE	CLEAR	DISCHARGE (L/M)	20.00		
PRODUCING HORIZON	QAL	CONFIDENCE	PROBABLE	SOURCE GEOL. INFERENCE	

## WELL INFORMATION:

TYPE	UNKNOWN	POWER CLASSIFICATION	ELECTRIC	CASING	UNKNOWN	PIPE COMPOSITION	UNKNOWN
METERS FROM HEAD	0	WITH RESPECT TO PRESSURE TANK	AFTER	USE	STOCK	PUMPING FREQUENCY	FREQUENT
DEPTH TO PROD HORIZON(M)	6	CONFIDENCE OF PRODUCING DEPTH	POSSIBLE	SOURCE OF PRODUCING INFORMATION		GEOL. INFERENCE	
WELL DEPTH(M)	6	CONFIDENCE OF WELL DEPTH	POSSIBLE	SOURCE OF DEPTH INFORMATION		GEOL. INFERENCE	

## REMARKS:

1-38 NECHE 7.5 MAP, SAMPLE TAKEN AT PUMP OVER WELL, WELL LOCATED NEXT TO GAS TANKS UNDER YELLOW ROOF,  
1-60 GASTANKS, SUNFLOWER FIELDS;

607044	TYPE WELL WATER	REPLICATE	SAMPLER MKH	AIR TEMP(C)	+ 26.0	WEATHER	LT WIND-PT CLDY
	PHASE 2	MAP NM1412	SITE 0744	TIME TAKEN	15/15/07/79	RELIEF	FLAT
	LOCATION: LAT	48.976 (48 58'33")	LONG	97.564 (97 33'50")		CONTAMINANTS	AGRICULTURA
	SURFACE GEOL UNIT	QAL	RESULTS REQ	YES	RELEASED	80/031	
						SAMPLE	COLOR - -CL - ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	2800	DISSOLVED OXYGEN(PPM)	2.0
WATER TEMP(C)	+ 17.8	VISIBILITY(M)	CLEAR	PH	8.1 LO-ION PAPER
TOTAL ALKALINITY(PPM)	540	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	540
APPEARANCE	CLEAR	DISCHARGE(L/M)	10.00	SOURCE	GEOL. INFERENCE
PRODUCING HORIZON	QAL	CONFIDENCE	PROBABLE		

## WELL INFORMATION:

TYPE	DUG	POWER CLASSIFICATION	ELECTRIC	CASING	OTHER	PIPE COMPOSITION	GALVANIZED
METERS FROM HEAD	30	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSEHOLD	PUMPING FREQUENCY	RARE
DEPTH TO PROD HORIZON(M)	5	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION		GEOL. INFERENCE	
WELL DEPTH(M)	5	CONFIDENCE OF WELL DEPTH	PROBABLE	SOURCE OF DEPTH INFORMATION		OWNER	

## REMARKS:

1-38 NECHE 7.5 MAP, SAMPLE TAKEN FROM WELL BEHIND HOUSE;  
1-60 BARLEY;  
J-78 HERB BOSQUER & NECHE, ND, 58265;  
3-20 WOODEN;

607045	TYPE WELL WATER	REPLICATE	SAMPLER MKH	AIR TEMP(C)	+ 28.0	WEATHER	LT WIND-PT CLDY
	PHASE 2	MAP NM1412	SITE 0745	TIME TAKEN	16/15/07/79	RELIEF	FLAT
	LOCATION: LAT	48.938 (48 56'16")	LONG	97.622 (97 37'19")		CONTAMINANTS	AGRICULTURA
	SURFACE GEOL UNIT	QAL	RESULTS REQ	NO	RELEASED	80/031	
						SAMPLE	COLOR - -CL - ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	2320	DISSOLVED OXYGEN(PPM)	3.0
WATER TEMP(C)	+ 11.4	VISIBILITY(M)	CLEAR	PH	8.2 LO-ION PAPER
TOTAL ALKALINITY(PPM)	400	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	400
APPEARANCE	CLEAR	DISCHARGE(L/M)	10.00	SOURCE	GEOL. INFERENCE
PRODUCING HORIZON	QTL	CONFIDENCE	POSSIBLE		

## WELL INFORMATION:

TYPE	UNKNOWN	POWER CLASSIFICATION	HAND	CASING	UNKNOWN	PIPE COMPOSITION	UNKNOWN
METERS FROM HEAD	0	WITH RESPECT TO PRESSURE TANK	BEFORE	USE	HOUSE/STOCK	PUMPING FREQUENCY	CONSTANT
DEPTH TO PROD HORIZON(M)	6	CONFIDENCE OF PRODUCING DEPTH	POSSIBLE	SOURCE OF PRODUCING INFORMATION		GEOL. INFERENCE	
WELL DEPTH(M)	6	CONFIDENCE OF WELL DEPTH	POSSIBLE	SOURCE OF DEPTH INFORMATION		GEOL. INFERENCE	

## REMARKS:

1-38 NECHE 7.5 MAP, SAMPLE TAKEN AT PUMP OVER WELL IN BETWEEN TWO WHITE BARN;  
1-60 SUNFLOWER & WHEAT FIELDS;

607046 TYPE WELL WATER REPLICATE SAMPLER MKH AIR TEMP(C) + 26.0 WEATHER CALM-PT CLDY  
PHASE 2 MAP NM1412 SITE 0746 TIME TAKEN 11/15/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
LOCATION: LAT 48.882( 48 52'55") LONG 97.612( 97 36'43") CONTAMINANTS AGRICULTURA  
SURFACE GEOL UNIT QTL RESULTS REQ YES ,RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 2420 DISSOLVED OXYGEN(PPM) 3.3  
WATER TEMP(C) + 9.2 VISIBILITY(M) CLEAR PH 8.2 LO-ION PAPER  
TOTAL ALKALINITY(PPM) 262 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 262  
APPEARANCE CLEAR DISCHARGE(L/M) 10.00  
PRODUCING HORIZON QTL CONFIDENCE POSSIBLE SOURCE GEOL INFERENCE

WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION HAND CASING OTHER PIPE COMPOSITION GALVANIZED  
METERS FROM HEAD 0 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY CONSTANT  
DEPTH TO PROD HORIZON(M) 6 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
WELL DEPTH(M) 6 CONFIDENCE OF WELL DEPTH POSSIBLE SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

REMARKS:

1-38 NECHE 7.5' MAP, SAMPLE TAKEN AT PUMP OVER WELL, WELL 25M EAST OF HOUSE;  
1-60 PASTURE, WHEAT FIELDS;  
1-78 WALTER STEGMAN & CAVALIER, ND. 38220;  
3-20 HOOD;

607047 TYPE WELL WATER REPLICATE SAMPLER MKH AIR TEMP(C) + 26.0 WEATHER CALM-PT CLDY  
PHASE 2 MAP NM1412 SITE 0747 TIME TAKEN 11/16/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
LOCATION: LAT 48.795( 48 47'42") LONG 97.576( 97 34'33") CONTAMINANTS AGRICULTURA  
SURFACE GEOL UNIT QAL RESULTS REQ YES ,RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 2290 DISSOLVED OXYGEN(PPM) 3.6  
WATER TEMP(C) + 17.8 VISIBILITY(M) CLEAR PH 6.7 LO-ION PAPER  
TOTAL ALKALINITY(PPM) 512 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 512  
APPEARANCE CLEAR DISCHARGE(L/M) 8.00  
PRODUCING HORIZON QAL CONFIDENCE PROBABLE SOURCE GEOL INFERENCE

WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION HAND CASING OTHER PIPE COMPOSITION UNKNOWN  
METERS FROM HEAD 50 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY RARE  
DEPTH TO PROD HORIZON(M) 6 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
WELL DEPTH(M) 6 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 CAVALIER 7.5 MAP, SAMPLE TAKEN AT KITCHEN FAUCET, WELL LOCATED IN QUANSET DUE EAST OF HOUSE;  
1-60 SUNFLOWER FIELDS;  
1-78 JERRY KAERCHER & CAVALIER, ND. 58220;  
3-20 CEMENT;

607048 TYPE STREAM SEDIMENT REPLICATE SAMPLER MKH AIR TEMP(C) + 28.0 WEATHER CALM-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0748 TIME TAKEN 11/16/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.758 ( 48 45'28" ) LONG 97.545 ( 97 32'42" ) CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT QTL RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL SAND SAMPLE: COLOR M-GY-BN ODOR NONE  
 SEDIMENT INFORMATION:  
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 20

607050 TYPE WELL WATER REPLICATE SAMPLER MKH AIR TEMP(C) + 28.0 WEATHER CALM-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0750 TIME TAKEN 12/16/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.814 ( 48 48'50" ) LONG 97.643 ( 97 38'34" ) CONTAMINANTS AGRICULTURA  
 SURFACE GEOL UNIT QTL RESULTS REQ YES ,RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE  
 GENERAL WATER INFORMATION:  
 TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 2600 DISSOLVED OXYGEN(PPM) 5.1  
 WATER TEMP(C) + 8.0 VISIBILITY(M) CLEAR PH 6.8 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 400 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 400  
 APPEARANCE CLEAR DISCHARGE(L/M) 15.00  
 PRODUCING HORIZON QTL CONFIDENCE PROBABLE SOURCE GEOL INFERENCE

WELL INFORMATION:  
 TYPE DUG POWER CLASSIFICATION HAND CASING UNKNOWN PIPE COMPOSITION GALVANIZED  
 METERS FROM HEAD 0 WITH RESPECT TO PRESSURE TANK NONE USE HOUSEHOLD PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON(M) 6 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL INFERENCE  
 WELL DEPTH(M) 6 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION GEOL INFERENCE

REMARKS:  
 1-38 BACKOO 7.5 MAP, SAMPLE TAKEN AT PUMP OVER WELL, WELL LOCATED 25M NORTH OF HOUSES;  
 1-60 SUNFLOWER FIELDS;  
 1-78 JERRY KAERCHER & CAVALIER, ND. 582201;

607051 TYPE STREAM SEDIMENT REPLICATE SAMPLER MKH AIR TEMP(C) + 26.0 WEATHER LT WIND-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0751 TIME TAKEN 12/16/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.822 ( 48 49'19" ) LONG 97.619 ( 97 37' 8" ) CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT QAL RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL CLAY SAMPLE: COLOR D-GY-BK ODOR NONE  
 SEDIMENT INFORMATION:  
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 50

REMARKS:  
 1-38 CAVALIER 7.5 MAP, SAMPLE TAKEN DIRECTLY BEHIND WHITE SHACK; AT A 10M INTERVAL;  
 1-60 SUNFLOWER, SUGAR BEETS & WHEAT FIELDS, LUMBER SHAVINGS;

607052 TYPE STREAM SEDIMENT REPLICATE SAMPLER MKH AIR TEMP(C) + 26.0 WEATHER LT WIND-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0752 TIME TAKEN 12/16/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.845 ( 48 50'42" ) LONG 97.619 ( 97 37' 8" ) CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) 4.00 DEPTH(M) 2.00 LEVEL NORMAL  
 BED MATERIAL SILT SAMPLE: COLOR D-GY-BK ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 70

REMARKS:

1-38 CAVALIER 7.5 MAP, SAMPLE TAKEN 5M UPSTREAM OF POOL AT A 10M INTERVAL; STARTING AT FIRST BEND;  
1-60 SUNFLOWER & SUGAR BEETS;

607053 TYPE WELL WATER REPLICATE SAMPLER MKH AIR TEMP(C) + 26.0 WEATHER CALM-PT CLDY  
PHASE 2 MAP NM1412 SITE 0753 TIME TAKEN 13/16/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
LOCATION: LAT 48.830 (48 49'48") LONG 97.624 (97 37'26") CONTAMINANTS AGRICULTURA  
SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 2150 DISSOLVED OXYGEN (PPM) 4.9  
WATER TEMP(C) + 12.9 VISIBILITY (M) CLEAR PH 7.0 LO-ION PAPER  
TOTAL ALKALINITY (PPM) 462 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 460  
APPEARANCE CLEAR DISCHARGE (L/M) 10.00  
PRODUCING HORIZON QTL CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION ELECTRIC CASING OTHER PIPE COMPOSITION GALVANIZED  
METERS FROM HEAD 0 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY CONSTANT  
DEPTH TO PROD HORIZON (M) 6 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
WELL DEPTH (M) 6 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 CAVALIER 7.5 MAP, SAMPLE TAKEN AT PUMP OVER WELL, WELL LOCATED NE CORNER OF SHACK NEAR TELEPHONE POLE;  
1-60 SUNFLOWER & WHEAT FIELDS;  
1-78 RAY STEIGER, & CAVALIER, ND 58211 & ROUTE 1 & BOX 109;  
3-20 CEMENT;

607054 TYPE WELL WATER REPLICATE SAMPLER MKH AIR TEMP(C) + 28.0 WEATHER CALM-PT CLDY  
PHASE 2 MAP NM1412 SITE 0754 TIME TAKEN 13/16/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
LOCATION: LAT 48.833 (48 49'58") LONG 97.566 (97 33'57") CONTAMINANTS AGRICULTURA  
SURFACE GEOL UNIT QAL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 1930 DISSOLVED OXYGEN (PPM) 5.5  
WATER TEMP(C) + 11.8 VISIBILITY (M) CLEAR PH 7.4 LO-ION PAPER  
TOTAL ALKALINITY (PPM) 450 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 450  
APPEARANCE CLEAR DISCHARGE (L/M) 20.00  
PRODUCING HORIZON QAL CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION ELECTRIC CASING OTHER PIPE COMPOSITION GALVANIZED  
METERS FROM HEAD 5 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY CONSTANT  
DEPTH TO PROD HORIZON (M) 7 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
WELL DEPTH (M) 7 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 CAVALIER 7.5 MAP, SAMPLE TAKEN FROM FAUCET ON SOUTH SIDE OF HOUSE, WELL LOCATED 5M SOUTH OF HOUSE UNDER BOARDS;  
1-60 BARLEY & CORN FIELDS;  
1-78 KEITH SCHLUCHTER & ROUTE 1, BOX 137 & CAVALIER, N.D.;

3-20 CEMENT;

607055 TYPE STREAM SEDIMENT REPLICATE SAMPLER MKH AIR TEMP(C) + 29.0 WEATHER CALM-PT CLDY  
 PHASE 2 MAP NH1412 SITE 0755 TIME TAKEN 13/16/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.852 (48 51' 7") LONG 97.557 (97 33' 25") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) NONE  
 SURFACE GEOL UNIT QAL RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) 7.00 DEPTH(M) 3.00 LEVEL NORMAL  
 BED MATERIAL SILT SAMPLE: COLOR M-BK-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 30

REMARKS:

1-38 CAVALIER 7.5 MAP, SAMPLE TAKEN 25M UPSTREAM OF ROAD AT A 10M INTERVAL STARTING PARALLEL TO TELEPHONE POLE;  
 J-60 BARLEY FIELDS;

607056 TYPE WELL WATER REPLICATE SAMPLER MKH AIR TEMP(C) + 32.0 WEATHER CALM-PT CLDY  
 PHASE 2 MAP NH1412 SITE 0756 TIME TAKEN 15/16/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.912 (48 54' 43") LONG 97.562 (97 33' 43") CONTAMINANTS AGRICULTURA  
 SURFACE GEOL UNIT QTL RESULTS REQ YES ,RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 5630 DISSOLVED OXYGEN(PPM) 6.7  
 WATER TEMP(C) + 12.7 VISIBILITY(M) CLEAR PH 7.1 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 250 P. ALKALINITY(PPM) <5 M. ALKALINITY(PPM) 250  
 APPEARANCE MURKY DISCHARGE(L/M) 10.00  
 PRODUCING HORIZON JURA CONFIDENCE PROBABLE SOURCE GEOL INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ARTESIAN CASING OTHER PIPE COMPOSITION OTHER  
 METERS FROM HEAD 0 WITH RESPECT TO PRESSURE TANK NONE USE NONE PUMPING FREQUENCY RARE  
 DEPTH TO PROD HORIZON(M) 75 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL INFERENCE  
 WELL DEPTH(M) 75 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 NECHE 7.5 MAP, SAMPLE TAKEN DIRECTLY FROM WELL 20M SOUTH OF BARN NEAR CEMENT BLOCKS;  
 J-60 WELL NOT RUNNING-STAGNANT, HEAT FIELDS;  
 1-78 ED THOM & NECHE, ND;  
 3-20 CEMENT;  
 3-21 NO PIPE;

607057 TYPE STREAM SEDIMENT REPLICATE SAMPLER MKH AIR TEMP(C) + 34.0 WEATHER CALM-PT CLDY  
 PHASE 2 MAP NH1412 SITE 0757 TIME TAKEN 15/16/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.890 (48 53' 24") LONG 97.642 (97 38' 31") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT QTL RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL SILT SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 30

REMARKS:

1-38 CAVALIER NW 7.5' MAP, SAMPLE TAKEN DOWN-STREAM 125M AT A 10M INTERVAL STARTING WHERE CATTAILS END;



1-60 WHEAT & SUGAR BEET FIELDS

607058 TYPE STREAM SEDIMENT REPLICATE SAMPLER MKH AIR TEMP(C) + 30.0 WEATHER CALM-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0758 TIME TAKEN 15/16/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.907 (48 54' 25") LONG 97.609 (97 36' 32") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT QTL RESULTS REQ NO ,RELEASED B01031 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL SILT SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 40

REMARKS:

1-38 NECHE 7.5' MAP, SAMPLE TAKEN 125M DOWNSTREAM OF ROAD AT A 10M INTERVAL; STARTING AFTER LARGE TREE;  
 1-60 SUNFLOWER & WHEAT FIELDS, GRAZING COWS, ROAD;

607059 TYPE STREAM SEDIMENT REPLICATE SAMPLER MKH AIR TEMP(C) + 32.0 WEATHER CALM-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0759 TIME TAKEN 15/16/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.917 (48 55' 1") LONG 97.623 (97 37' 22") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT QAL RESULTS REQ NO ,RELEASED B01031 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL SILT SAMPLE: COLOR D-GY-BK ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 70

REMARKS:

1-38 NECHE 7.5' MAP, SAMPLE TAKEN 25M UPSTREAM OF ROAD AT A 10M INTERVAL STARTING BEFORE WHEAT FIELDS;  
 1-60 WHEAT FIELDS, SOIL;

607060 TYPE STREAM SEDIMENT REPLICATE SAMPLER MKH AIR TEMP(C) + 32.0 WEATHER CALM-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0760 TIME TAKEN 16/16/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.931 (48 55' 51") LONG 97.687 (97 41' 13") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT QAL RESULTS REQ NO ,RELEASED B01031 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL CLAY SAMPLE: COLOR M-GY-BK ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 70

REMARKS:

1-38 CAVALIER NW 7.5 MAP, SAMPLE TAKEN 25M UPSTREAM OF ROAD AT A 10M INTERVAL STARTING BEFORE FIELD;  
 1-60 SUNFLOWER FIELD, ROAD;

607061 TYPE STREAM SEDIMENT REPLICATE SAMPLER MKH AIR TEMP(C) + 34.0 WEATHER CALM-PT CLDY  
 PHASE G MAP NM1412 SITE 0761 TIME TAKEN 16/16/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.964 (48 57' 50") LONG 97.687 (97 41' 13") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) NONE  
 SURFACE GEOL UNIT QAL RESULTS REQ NO ,RELEASED B01031 WATER: WIDTH(M) 10.00 DEPTH(M) 5.00 LEVEL NORMAL  
 BED MATERIAL SAND SAMPLE: COLOR M-YL-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 30

## REMARKS:

1-38 CAVALIER NW 7.5 MAP, SAMPLE TAKEN 25M UPSTREAM OF BRIDGE AT A 10M INTERVAL STARTING AFTER FENCE;  
1-60 ROAD, WHEAT, SUGAR BEETS, SUNFLOWER, BARLEY FIELDS;

607062 TYPE STREAM SEDIMENT REPLICATE SAMPLER MKH AIR TEMP(C) + 34.0 WEATHER CALM-PT CLDY  
PHASE 2 MAP NM1412 SITE 0762 TIME TAKEN 16/16/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
LOCATION: LAT 48.992 (48 59' 31") LONG 97.696 (97 41' 45") CONTAMINANTS OTHER STREAM FLOW(M/SEC)  
WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
SURFACE GEOL UNIT QAL RESULTS REQ NO , RELEASED 801031 BED MATERIAL SILT SAMPLE: COLOR M-YL-BN ODOR NONE

SEDIMENT INFORMATION:  
SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 30

## REMARKS:

1-38 CAVALIER NW 7.5 MAP, SAMPLE TAKEN 25M UPSTREAM OF ROAD AT A 10M INTERVAL STARTING AT GRASSY PART;  
1-60 GRAZING SHEEP, WHEAT & SUNFLOWER FIELDS;

607063 TYPE STREAM SEDIMENT REPLICATE SAMPLER MKH AIR TEMP(C) + 34.0 WEATHER CALM-PT CLDY  
PHASE 2 MAP NM1412 SITE 0763 TIME TAKEN 17/16/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
LOCATION: LAT 48.981 (48 58' 51") LONG 97.601 (97 36' 3") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)  
WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
SURFACE GEOL UNIT QAL RESULTS REQ NO , RELEASED 801031 BED MATERIAL CLAY SAMPLE: COLOR D-GY-BK ODOR NONE

SEDIMENT INFORMATION:  
SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 60

## REMARKS:

1-38 NECHE 7.5 MAP, SAMPLE TAKEN UPSTREAM OF ROAD AT A 10M INTERVAL STARTING AT STEEP BANK;  
1-60 WHEAT FIELDS, ROAD PARALLELS STREAM;

607064 TYPE STREAM SEDIMENT REPLICATE SAMPLER MKH AIR TEMP(C) + 31.0 WEATHER LT WIND-PT CLDY  
PHASE 2 MAP NM1412 SITE 0764 TIME TAKEN 12/17/06/79 RELIEF FLAT VEGETATION BRUSH-MODERATE  
LOCATION: LAT 48.516 (48 30' 57") LONG 96.536 (96 32' 9") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) STAG  
WATER: WIDTH(M) 5.00 DEPTH(M) 2.00 LEVEL POOLS  
SURFACE GEOL UNIT QPG RESULTS REQ NO , RELEASED 801031 BED MATERIAL SILT SAMPLE: COLOR D-GY-BK ODOR NONE

SEDIMENT INFORMATION:  
SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 75

## REMARKS:

1-38 KARLSTAD 15' MAP, SAMPLE TAKEN 25M UPSTREAM OF ROAD AT A 10M INTERVAL; STARTING AT GROUP OF TREES;  
1-60 WHEAT FIELDS;

607065 TYPE STREAM SEDIMENT REPLICATE SAMPLER MKH AIR TEMP(C) + 31.0 WEATHER LT WIND-PT CLDY  
PHASE 2 MAP NM1412 SITE 0765 TIME TAKEN 12/17/07/79 RELIEF FLAT VEGETATION BRUSH-MODERATE  
LOCATION: LAT 48.512 (48 30' 43") LONG 96.528 (96 31' 40") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) NONE  
WATER: WIDTH(M) 5.00 DEPTH(M) 2.00 LEVEL NORMAL  
SURFACE GEOL UNIT QPG RESULTS REQ NO , RELEASED 801031 BED MATERIAL SILT SAMPLE: COLOR D-GY-BK ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 85

REMARKS:

1-38 KARLSTAD 15' MAP, SAMPLE TAKEN 50M UPSTREAM OF FORK AT A 10M INTERVAL STARTING AT FIRST BEND;  
1-60 WHEAT FIELDS

607066 TYPE STREAM SEDIMENT REPLICATE SAMPLER MKH AIR TEMP(C) + 31.0 WEATHER LT WIND-PT CLDY  
PHASE 6 MAP NM1412 SITE 0766 TIME TAKEN 13/17/07/79 RELIEF FLAT VEGETATION BRUSH-DENSE  
LOCATION: LAT 48.732 (48 43' 55") LONG 96.587 (96 35' 13") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)  
WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
SURFACE GEOL UNIT QTL RESULTS REQ NO ,RELEASED 801031 BED MATERIAL CLAY SAMPLE: COLOR D-GY-BK ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 85

REMARKS:

1-38 KARLSTAD 15' MAP, SAMPLE TAKEN 25M UPSTREAM OF ROAD AT A 10M INTERVAL; STARTING AFTER LARGE TREE;  
1-60 WHEAT FIELDS, SOIL;

607067 TYPE STREAM SEDIMENT REPLICATE SAMPLER MKH AIR TEMP(C) + 32.0 WEATHER LT WIND-PT CLDY  
PHASE 2 MAP NM1412 SITE 0767 TIME TAKEN 14/17/07/79 RELIEF FLAT VEGETATION BRUSH-DENSE  
LOCATION: LAT 48.726 (48 43' 33") LONG 96.701 (96 42' 3") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)  
WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
SURFACE GEOL UNIT QTL RESULTS REQ NO ,RELEASED 801031 BED MATERIAL SILT SAMPLE: COLOR M-YL-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 90

REMARKS:

1-38 KARLSTAD 15' MAP; SAMPLE TAKEN 50M FROM END OF STREAM; AT A 10M INTERVAL;  
1-60 WHEAT FIELDS, SOIL;

607068 TYPE STREAM SEDIMENT REPLICATE SAMPLER MKH AIR TEMP(C) + 32.0 WEATHER LT WIND-PT CLDY  
PHASE 2 MAP NM1412 SITE 0768 TIME TAKEN 14/17/07/79 RELIEF FLAT VEGETATION BRUSH-MODERATE  
LOCATION: LAT 48.738 (48 44' 16") LONG 96.734 (96 44' 2") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)  
WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
SURFACE GEOL UNIT QTL RESULTS REQ NO ,RELEASED 801031 BED MATERIAL CLAY SAMPLE: COLOR D-GY-BK ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 85

REMARKS:

1-38 KARLSTAD 15' MAP, SAMPLE TAKEN 125M DOWNSTREAM OF ROAD AT A 10M INTERVAL; STARTING AT 2ND BEND;  
1-60 WHEAT FIELDS; ROAD; SOIL;

607069 TYPE STREAM SEDIMENT REPLICATE SAMPLER MKH AIR TEMP(C) + 32.0 WEATHER LT WIND-PT CLDY  
PHASE 2 MAP NM1412 SITE 0769 TIME TAKEN 15/17/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
LOCATION: LAT 48.700 (48 42' 0") LONG 96.669 (96 40' 8") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)

SURFACE GEOL UNIT QTL RESULTS REQ NO , RELEASED 801031

WATER: WIDTH(M)  
BED MATERIAL SAND

DEPTH(M)  
SAMPLE: COLOR M-BK-BN

LEVEL DRY  
ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 30

REMARKS:

1-38 KARLSTAD 15' MAP, SAMPLE TAKEN 25M UPSTREAM OF ROAD AT A 10M INTERVAL; STARTING AT FALLEN TREE;  
1-60 WHEAT FIELDS;

607070 TYPE STREAM SEDIMENT REPLICATE SAMPLER MKH  
PHASE 2 MAP NM1412 SITE 0770 TIME TAKEN 15/17/07/79  
LOCATION: LAT 48.571 ( 48 34'15" ) LONG 96.724 ( 96 43'26" )

AIR TEMP (C) + 32.0 WEATHER LT WIND-PT CLDY  
RELIEF FLAT VEGETATION GRASS-MODERATE

CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)

SURFACE GEOL UNIT QTL RESULTS REQ NO , RELEASED 801031

WATER: WIDTH(M)  
BED MATERIAL CLAY

DEPTH(M)  
SAMPLE: COLOR M-BN-BK

LEVEL DRY  
ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 50

REMARKS:

1-38 KARLSTAD 15' MAP, SAMPLE TAKEN 25M UPSTREAM OF ROAD AT A 10M INTERVAL; STARTING AT FIRST BEND;  
1-60 WHEAT & SUGAR BEET FIELDS;

607071 TYPE STREAM SEDIMENT REPLICATE SAMPLER MKH  
PHASE 2 MAP NM1412 SITE 0771 TIME TAKEN 15/17/07/79  
LOCATION: LAT 48.557 ( 48 33'25" ) LONG 96.733 ( 96 43'58" )

AIR TEMP (C) + 32.0 WEATHER LT WIND-PT CLDY  
RELIEF FLAT VEGETATION GRASS-MODERATE

CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) NONE

SURFACE GEOL UNIT QTL RESULTS REQ NO , RELEASED 801031

WATER: WIDTH(M) 3.00  
BED MATERIAL CLAY

DEPTH(M) 1.00 LEVEL NORMAL  
SAMPLE: COLOR M-YL-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 50

REMARKS:

1-38 KARLSTAD 15' MAP, SAMPLE TAKEN 25M UPSTREAM OF ROAD AT A 10M INTERVAL; STARTING AT POLE;  
1-60 WHEAT & POTATO FIELDS;

607072 TYPE STREAM SEDIMENT REPLICATE SAMPLER MKH  
PHASE 2 MAP NM1412 SITE 0772 TIME TAKEN 15/17/07/79  
LOCATION: LAT 48.505 ( 48 30'18" ) LONG 96.733 ( 96 43'58" )

AIR TEMP (C) + 32.0 WEATHER LT WIND-PT CLDY  
RELIEF FLAT VEGETATION GRASS-MODERATE

CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) NONE

SURFACE GEOL UNIT QTL RESULTS REQ NO , RELEASED 801031

WATER: WIDTH(M) 3.00  
BED MATERIAL SAND

DEPTH(M) 1.00 LEVEL NORMAL  
SAMPLE: COLOR M-BK-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 20

REMARKS:

1-38 KARLSTAD 15' MAP, SAMPLE TAKEN 25M UPSTREAM OF ROAD AT A 10M INTERVAL; STARTING AT BIG ROCK;  
1-60 WHEAT & SUN FLOWER FIELDS;

607073 TYPE WELL WATER REPLICATE SAMPLER MKH AIR TEMP(C) + 28.0 WEATHER CALM-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0773 TIME TAKEN 12/19/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.703 (48 42'10") LONG 97.206 (97 12'21") CONTAMINANTS AGRICULTURA  
 SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 1500 DISSOLVED OXYGEN (PPM) 8.4  
 WATER TEMP (C) + 20.9 VISIBILITY (M) CLEAR PH 6.7 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 446 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 446  
 APPEARANCE CLEAR DISCHARGE (L/M) 10.00  
 PRODUCING HORIZON QTL CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION ELECTRIC CASING OTHER PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 25 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY CONSTANT  
 DEPTH TO PROD HORIZON (M) 5 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH (M) 5 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 DRAYTON 15' MAP, SAMPLE TAKEN AT KITCHEN FAUCET, WELL LOCATED 25M NORTH OF HOUSE UNDER CEMENT BLOCK;  
 1-60 WHEAT FIELDS;  
 1-78 ARNOLD SCHULZ & BOHSMONT, ND 58217;  
 3-20 CEMENT;

607074 TYPE WELL WATER REPLICATE SAMPLER MKH AIR TEMP(C) + 29.0 WEATHER CALM-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0774 TIME TAKEN 13/19/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.733 (48 43'58") LONG 97.200 (97 12' 0") CONTAMINANTS AGRICULTURA  
 SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 770 DISSOLVED OXYGEN (PPM) 5.3  
 WATER TEMP (C) + 8.4 VISIBILITY (M) CLEAR PH 7.1 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 330 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 330  
 APPEARANCE CLEAR DISCHARGE (L/M) 20.00  
 PRODUCING HORIZON QTL CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION HAND CASING GALVANIZED PIPE COMPOSITION GALVANIZED  
 METERS FROM HEAD 0 WITH RESPECT TO PRESSURE TANK NONE USE NONE PUMPING FREQUENCY RARE  
 DEPTH TO PROD HORIZON (M) 5 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH (M) 5 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 DRAYTON 15' MAP, SAMPLE TAKEN AT PUMP OVER WELL, WELL LOCATED SOUTH OF SMALL WHITE BUILDINGS;  
 1-60 WHEAT FIELDS;  
 1-78 RALPH JUHL & BOHSMONT, ND;

607075 TYPE WELL WATER REPLICATE SAMPLER MKH AIR TEMP(C) + 32.0 WEATHER CALM-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0775 TIME TAKEN 15/19/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.616 (48 36'57") LONG 97.235 (97 14' 6") CONTAMINANTS OTHER  
 SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE

WATER TEMP(C) + 17.1

CONDUCTIVITY(MICROMHOS/CM) 2750

VISIBILITY(M) CLEAR

DISSOLVED OXYGEN(PPH) 7.5

PH 7.3 LO-ION PAPER

TOTAL ALKALINITY(PPH) 400

P ALKALINITY(PPH) <5

M ALKALINITY(PPH) 400

APPEARANCE CLEAR

DISCHARGE(L/M) 10.00

CONFIDENCE PROBABLE

SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DUG

POWER CLASSIFICATION ARTESIAN

CASING NONE

PIPE COMPOSITION OTHER

METERS FROM HEAD 0

WITH RESPECT TO PRESSURE TANK NONE

USE NONE

PUMPING FREQUENCY RARE

DEPTH TO PROD HORIZON(M) 3

CONFIDENCE OF PRODUCING DEPTH PROBABLE

SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE

WELL DEPTH(M) 3

CONFIDENCE OF WELL DEPTH PROBABLE

SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 DRAYTON 15' MAP, SAMPLE TAKEN FROM CONSTRUCTION HOLE FOR FARM SCALE;

1-60 CONSTRUCTION ACTIVITY OVER HOLE;

1-78 BOB KLEIN & DRAYTON, ND 58225;

3-21 NONE;

607076 TYPE WELL WATER REPLICATE SAMPLER MKH

AIR TEMP(C) + 32.0 WEATHER CALM-OVERCAST

PHASE 2 MAP NM1412 SITE 0776 TIME TAKEN 15/19/07/79

RELIEF FLAT VEGETATION GRASS-MODERATE

LOCATION: LAT 48.706(48 42'21") LONG 97.145(97 8'42")

CONTAMINANTS AGRICULTURA

SURFACE GEOL UNIT QAL RESULTS REQ YES RELEASED 801031

SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE

WATER TEMP(C) + 13.1

CONDUCTIVITY(MICROMHOS/CM) 400

VISIBILITY(M) CLEAR

DISSOLVED OXYGEN(PPH) 10.3

PH 7.9 LO-ION PAPER

TOTAL ALKALINITY(PPH) 102

P ALKALINITY(PPH) <5

M ALKALINITY(PPH) 102

APPEARANCE CLEAR

DISCHARGE(L/M) 10.00

CONFIDENCE PROBABLE

SOURCE GEOL. INFERENCE

PRODUCING HORIZON QAL

WELL INFORMATION:

TYPE DUG

POWER CLASSIFICATION HAND

CASING OTHER

PIPE COMPOSITION UNKNOWN

METERS FROM HEAD 0

WITH RESPECT TO PRESSURE TANK NONE

USE HOUSEHOLD

PUMPING FREQUENCY RARE

DEPTH TO PROD HORIZON(M) 6

CONFIDENCE OF PRODUCING DEPTH PROBABLE

SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE

WELL DEPTH(M) 6

CONFIDENCE OF WELL DEPTH PROBABLE

SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 DRAYTON 15' MAP, SAMPLE TAKEN FROM WELL 10M NE OF BARN;

1-60 WHEAT & SUNFLOWER FIELDS;

1-78 DAVE PEIL & BOHSMONT, ND 58217;

3-20 CEMENT;

607077 TYPE WELL WATER REPLICATE SAMPLER MKH

AIR TEMP(C) + 32.0 WEATHER CALM-CLEAR

PHASE 2 MAP NM1412 SITE 0777 TIME TAKEN 16/19/07/79

RELIEF FLAT VEGETATION GRASS-MODERATE

LOCATION: LAT 48.529(48 31'44") LONG 97.231(97 13'51")

CONTAMINANTS AGRICULTURA

SURFACE GEOL UNIT QTL RESULTS REQ YES RELEASED 801031

SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE

WATER TEMP(C) + 14.2

CONDUCTIVITY(MICROMHOS/CM) 1420

VISIBILITY(M) CLEAR

DISSOLVED OXYGEN(PPH) 6.0

PH 7.2 LO-ION PAPER

TOTAL ALKALINITY(PPH) 360

P ALKALINITY(PPH) <5

M ALKALINITY(PPH) 360

APPEARANCE CLEAR

DISCHARGE(L/M) 10.00

CONFIDENCE PROBABLE

SOURCE GEOL. INFERENCE

PRODUCING HORIZON QTL

LAB

LAB

THIEF

## WELL INFORMATION:

TYPE	DUG	POWER CLASSIFICATION	HAND	CASING	OTHER	PIPE COMPOSITION	GALVANIZED
METERS FROM HEAD	0	WITH RESPECT TO PRESSURE TANK	NONE	USE	NONE	PUMPING FREQUENCY	RARE
DEPTH TO PROD HORIZON(M)	8	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	GEOLOGICAL INFERENCE		
WELL DEPTH(M)	8	CONFIDENCE OF WELL DEPTH	PROBABLE	SOURCE OF DEPTH INFORMATION	OWNER		

## REMARKS:

1-38 DRAYTON 15' MAP, SAMPLE TAKEN AT PUMP OVER WELL, WELL LOCATED 10M SOUTH OF GUANSET;  
 1-78 JOHN BROWN & DRAYTON, ND 58225;  
 3-20 CEMENT & STEEL;

607101	TYPE	SPRING WATER	REPLICATE	SAMPLER	SLK	AIR TEMP(C)	+ 26.0	WEATHER	LT WIND-OVERCAST
	PHASE 2	MAP NM1412	SITE 0801	TIME TAKEN	09/12/07/79	RELIEF	FLAT	VEGETATION	GRASS-MODERATE
	LOCATION:	LAT 48.221(48 13'15")	LONG 97.633(97 37'58")	CONTAMINANTS	NONE	SAMPLE: COLOR - - -CL - - -ODOR NONE			
	SURFACE GEOL UNIT	QTL	RESULTS REQ	YES	RELEASED	801031			

## GENERAL WATER INFORMATION:

TREATMENT	OTHER	CONDUCTIVITY(MICROMHOS/CM)	640	DISSOLVED OXYGEN(PPM)	9.7
WATER TEMP(C)	+ 23.7	VISIBILITY(M)	CLEAR	PH	5.6 LO-ION PAPER
TOTAL ALKALINITY(PPM)	246	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	242
APPEARANCE	CLEAR	DISCHARGE(L/M)	10.00	SOURCE GEOLOGICAL INFERENCE	
PRODUCING HORIZON	QTL	CONFIDENCE	POSSIBLE		

## WELL INFORMATION:

TYPE	OTHER	POWER CLASSIFICATION	ELECTRIC	CASING	UNKNOWN	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD	0	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSE/STOCK	PUMPING FREQUENCY	CONSTANT
DEPTH TO PROD HORIZON(M)	6	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	GEOLOGICAL INFERENCE		
WELL DEPTH(M)	6	CONFIDENCE OF WELL DEPTH	PROBABLE	SOURCE OF DEPTH INFORMATION	OWNER		

## REMARKS:

1-18 RESEVOIR WATER FROM INKSTER, SOURCE IS SPRING;  
 1-38 INKSTER N.E. N.D. 7.5' MAP, SAMPLE TAKEN FROM KITCHEN FAUCET, WATER SOURCE FROM RESEVOIR LOCATION UNKNOWN;  
 1-78 JOHN BARTUSKA & FOREST RIVER, N.D. 58233;  
 2-37 WATER TREATED AT TREATMENT PLANT, TREATMENT UNKNOWN;  
 3-18 WATER PIPED IN;

607102	TYPE	STREAM SEDIMENT	REPLICATE	SAMPLER	SLK	AIR TEMP(C)	+ 27.0	WEATHER	CALM-OVERCAST
	PHASE 2	MAP NM1412	SITE 0802	TIME TAKEN	10/12/07/79	RELIEF	FLAT	VEGETATION	GRASS-MODERATE
	LOCATION:	LAT 48.231(48 13'51")	LONG 97.514(97 30'50")	CONTAMINANTS	AGRICULTURA	STREAM FLOW(M/SEC)	NONE	SAMPLE: COLOR M-GY-BN - - -ODOR H2S	
	SURFACE GEOL UNIT	QTL	RESULTS REQ	NO	RELEASED	801031			
	WATER: WIDTH(M)	3.00	DEPTH(M)	1.00	LEVEL	NORMAL			
	BED MATERIAL	SILT							

## SEDIMENT INFORMATION:

SAMPLE CONDITION	WET	SAMPLE TREATMENT	NONE	NUMBER OF GRABS	8	ORGANIC MATERIAL(%)	20
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## REMARKS:

1-38 INKSTER N.E. N.D. 7.5' MAP, SAMPLE TAKEN 25M UPSTREAM FROM ROAD, INTERVAL OVER 20M. STARTING 10M. WEST OF POWER LINE;  
 1-60 ROW CROPS;

607103	TYPE	STREAM SEDIMENT	REPLICATE	SAMPLER	SLK	AIR TEMP(C)	+ 26.0	WEATHER	CALM-OVERCAST
	PHASE 2	MAP NM1412	SITE 0803	TIME TAKEN	10/12/07/79	RELIEF	FLAT	VEGETATION	GRASS-MODERATE

LOCATION: LAT 48.223 (48 13' 22") LONG 97.503 (97 30' 10")

CONTAMINANTS AGRICULTURA

STREAM FLOW (M/SEC) NONE

SURFACE GEOL UNIT QTL RESULTS REQ NO , RELEASED 801031

WATER: WIDTH (M) 4.00

DEPTH (M) 1.00 LEVEL NORMAL

BED MATERIAL SILT

SAMPLE: COLOR M-GY-BK ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET

SAMPLE TREATMENT NONE

NUMBER OF GRABS 8

ORGANIC MATERIAL (%) 75

REMARKS:

1-38 INKSTER N.E. N.D. 7.5' MAP, SAMPLE TAKEN 25M. UPSTREAM FROM RAILROAD, INTERVAL OVER 20M. STARTING 30M. SOUTHEAST FROM POWER POLE;  
1-60 ROW CROPS;

607106 TYPE STREAM SEDIMENT REPLICATE SAMPLER SLK  
PHASE G MAP NM1412 SITE 0806 TIME TAKEN 11/12/07/79  
LOCATION: LAT 48.181 (48 10' 51") LONG 97.623 (97 37' 22")

AIR TEMP (C) + 27.0

WEATHER CALM-OVERCAST

RELIEF FLAT VEGETATION DECIDUOUS-MODERATE

SURFACE GEOL UNIT QAL RESULTS REQ NO , RELEASED 801031

CONTAMINANTS MINING

STREAM FLOW (M/SEC) 0.30

WATER: WIDTH (M) 4.00

DEPTH (M) 0.50 LEVEL LOW

BED MATERIAL SAND

SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET

SAMPLE TREATMENT NONE

NUMBER OF GRABS 8

ORGANIC MATERIAL (%) 15

REMARKS:

1-38 INKSTER N.E. N.D. 7.5' MAP SAMPLE TAKEN 30M. UPSTREAM FROM BRIDGE, INTERVAL OVER 25M. STARTING 10M. UPSTREAM FROM BARBED FENCE;  
1-60 GRAVEL PIT 2 KILOMETERS UPSTREAM;

607107 TYPE WELL WATER REPLICATE SAMPLER SLK  
PHASE 2 MAP NM1412 SITE 0807 TIME TAKEN 12/12/07/79  
LOCATION: LAT 48.196 (48 11' 45") LONG 97.565 (97 33' 54")  
SURFACE GEOL UNIT QAL RESULTS REQ YES , RELEASED 801031

AIR TEMP (C) + 27.0

WEATHER CALM-OVERCAST

RELIEF FLAT VEGETATION GRASS-MODERATE

CONTAMINANTS AGRICULTURA

SAMPLE: COLOR -CL -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE

CONDUCTIVITY (MICROMHOS/CM) 650

DISSOLVED OXYGEN (PPM) 13.5

WATER TEMP (C) + 16.1

VISIBILITY (M) CLEAR

PH 6.9 LO-ION PAPER

TOTAL ALKALINITY (PPM) 221

P ALKALINITY (PPM) < 5

M ALKALINITY (PPM) 220

APPEARANCE CLEAR

DISECHARGE (L/M) 15.00

PRODUCING HORIZON GPG

CONFIDENCE POSSIBLE

SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DUG

POWER CLASSIFICATION ELECTRIC

CASING OTHER

PIPE COMPOSITION PLASTIC

METERS FROM HEAD 3

WITH RESPECT TO PRESSURE TANK AFTER

USE HOUSEHOLD

PUMPING FREQUENCY CONSTANT

DEPTH TO PROD HORIZON (M) 3

CONFIDENCE OF PRODUCING DEPTH PROBABLE

SOURCE OF PRODUCING INFORMATION

GEOL. INFERENCE

WELL DEPTH (M) 3

CONFIDENCE OF WELL DEPTH

PROBABLE

SOURCE OF DEPTH INFORMATION

OWNER

REMARKS:

1-38 INKSTER N.E. N.D. 7.5' MAP, SAMPLE TAKEN FROM KITCHEN FAUCET, WELL LOCATED IN BASEMENT BELOW KITCHEN, 10M. NORTH OF ROAD;  
1-60 ROW CROPS AND STOCK;  
1-78 RICHARD E. NARLOCK & INKSTER, N.D. 58249;  
3-20 CEMENT;

607108 TYPE WELL WATER REPLICATE SAMPLER SLK

AIR TEMP (C) + 28.0

WEATHER LT WIND-OVERCAST



PHASE 2 MAP NH1412 SITE 0808 TIME TAKEN 12/12/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.153( 48 9'10") LONG 97.558( 97 33'28") CONTAMINANTS AGRICULTURA  
 SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 2400 DISSOLVED OXYGEN(PPM) 9.5  
 WATER TEMP(C) + 11.9 VISIBILITY(M) CLEAR PH 6.9 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 440 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 438  
 APPEARANCE CLEAR DISCHARGE(L/M) 12.00  
 PRODUCING HORIZON QPG CONFIDENCE HIGH SOURCE PUBLICATION

## WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION ELECTRIC CASING OTHER PIPE COMPOSITION GALVANIZED  
 METERS FROM HEAD 10 WITH RESPECT TO PRESSURE TANK AFTER USE NONE PUMPING FREQUENCY INFREQUENT  
 DEPTH TO PROD HORIZON(M) 3 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 3 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

## REMARKS:

1-38 INKSTER N.E. N.D. 7.5' MAP, SAMPLE TAKEN FROM HOSE EXTENDED FROM OLD WHITE HOUSE, WELL LOCATED IN BASEMENT OF HOUSE ON  
 WEST HOUSE;  
 1-60 ROW CROPS;  
 1-78 MUIR BROTHERS & INKSTER, N.D. 58244;  
 3-20 WOOD CASING;

607109 TYPE STREAM SEDIMENT REPLICATE SAMPLER SLK AIR TEMP(C) + 29.0 WEATHER LT WIND-OVERCST  
 PHASE 2 MAP NH1412 SITE 0809 TIME TAKEN 13/12/07/79 RELIEF FLAT VEGETATION GRASS-DENSE  
 LOCATION: LAT 48.137( 48 8'13") LONG 97.520( 97 31'12") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) STAG  
 SURFACE GEOL UNIT QTL RESULTS REQ NO, RELEASED 801031 WATER: WIDTH(M) 1.00 DEPTH(M) 0.25 LEVEL POOLS  
 BED MATERIAL SILT SAMPLE: COLOR M-GY-BK ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 70

## REMARKS:

1-38 INKSTER N.E., N.D. 7.5' MAP, SAMPLE TAKEN 150M. DOWNSTREAM FROM ROAD, INTERVAL OVER 25M. STARTING 120M. SOUTH OF GROVE OF  
 TREES;  
 1-60 ROW CROPS AND SOIL;

607110 TYPE STREAM SEDIMENT REPLICATE SAMPLER SLK AIR TEMP(C) + 30.0 WEATHER CALM-OVERCST  
 PHASE 2 MAP NH1412 SITE 0810 TIME TAKEN 13/12/07/79 RELIEF FLAT VEGETATION GRASS-DENSE  
 LOCATION: LAT 48.122( 48 7'19") LONG 97.531( 97 31'51") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) STAG  
 SURFACE GEOL UNIT QTL RESULTS REQ NO, RELEASED 801031 WATER: WIDTH(M) 0.50 DEPTH(M) 0.25 LEVEL POOLS  
 BED MATERIAL SILT SAMPLE: COLOR M-GY-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 9 ORGANIC MATERIAL(%) 30

## REMARKS:

1-38 INKSTER S.E. N.D. 7.5' MAP, SAMPLE TAKEN 25M. UPSTREAM FROM ROAD, INTERVAL OVER 20M, STARTING AT COTTON WOOD TREE ALONG  
 BANK;  
 1-60 ROW CROPS;

607111 TYPE STREAM SEDIMENT REPLICATE SAMPLER SLK  
 PHASE 2 MAP NM1412 SITE 0811 TIME TAKEN 14/12/07/79 AIR TEMP(C) + 30.0 WEATHER LT WIND-OVERCAST  
 RELIEF FLAT VEGETATION DECIDUOUS-MODERATE  
 LOCATION: LAT 48.095( 48 5'42") LONG 97.577( 97 34'37") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) 2.00 DEPTH(M) 1.00 LEVEL HIGH  
 BED MATERIAL SILT SAMPLE: COLOR M-GY-BK ODOR H2S

SEDIMENT INFORMATION:  
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 9 ORGANIC MATERIAL(%) 45

REMARKS:  
 1-38 INKSTER S.E., N.D. 7.5' MAP, SAMPLE TAKEN 25M. UPSTREAM FROM ROAD, INTERVAL OVER 25M., STARTING AT THE END OF COTTON TREES  
 ALONG STREAM BANK  
 1-60 ROW CROPS:

607112 TYPE STREAM SEDIMENT REPLICATE SAMPLER SLK  
 PHASE 2 MAP NM1412 SITE 0812 TIME TAKEN 16/12/07/79 AIR TEMP(C) + 30.0 WEATHER LT WIND-PT CLDY  
 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.031( 48 1'51") LONG 97.558( 97 33'28") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) NONE  
 SURFACE GEOL UNIT QPG RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) 3.00 DEPTH(M) 0.50 LEVEL LOW  
 BED MATERIAL SILT SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 60

REMARKS:  
 1-38 INKSTER S.E. N.D. 7.5' MAP, SAMPLE TAKEN 25M UPSTREAM FROM ROAD, INTERVAL OVER 20M. STARTING AT COTTON WOOD TREE 30M. WEST  
 OF ROAD:  
 1-60 ROW CROPS:

607113 TYPE WELL WATER REPLICATE SAMPLER SLK  
 PHASE 2 MAP NM1412 SITE 0813 TIME TAKEN 16/12/07/79 AIR TEMP(C) + 30.0 WEATHER CALM-PT CLDY  
 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.022( 48 1'19") LONG 97.564( 97 33'50") CONTAMINANTS AGRICULTURA  
 SURFACE GEOL UNIT QPG RESULTS REQ YES ,RELEASED 801031 SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:  
 TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 410 DISSOLVED OXYGEN(PPM) 13.4  
 WATER TEMP(C) + 23.4 VISIBILITY(M) CLEAR PH 7.0 LD-JON PAPER  
 TOTAL ALKALINITY(PPM) 154 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 150  
 APPEARANCE CLEAR DISCHARGE(L/M) 12.00  
 PRODUCING HORIZON QPG CONFIDENCE POSSIBLE SOURCE GEOL. INFERENCE

WELL INFORMATION:  
 TYPE DUG POWER CLASSIFICATION ELECTRIC CASING OTHER PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 4 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY CONSTANT  
 DEPTH TO PROD HORIZON(M) 3 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 3 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION USER

REMARKS:  
 1-38 INKSTER S.E. N.D. 7.5' MAP, SAMPLE TAKEN FROM INSIDE FAUCET, WELL LOCATED UNDER KITCHEN FAUCET IN BASEMENT 1/8M. NORTH OF  
 POWER POLE;  
 1-60 ROW CROPS, (RYE);  
 1-78 RAY SMUDE & 812 NORTE FORT STREET & GRAND FORK, N.D.;  
 3-20 OAK CASING:

607114 TYPE WELL WATER REPLICATE SAMPLER SLK AIR TEMP(C) + 32.0 WEATHER LT WIND-CLEAR  
 PHASE 2 MAP NM1412 SITE 0814 TIME TAKEN 17/12/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.007( 48 0'25") LONG 97.599( 97 35'56") CONTAMINANTS AGRICULTURA  
 SURFACE GEOL UNIT OPG RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR L-YL-BN ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 970 DISSOLVED OXYGEN(PPM) 5.6  
 WATER TEMP(C) + 21.2 VISIBILITY(M) CLEAR PH 6.9 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 300 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 295  
 APPEARANCE CLEAR DISCHARGE(L/M) 10.00 SOURCE GEOL. INFERENCE  
 PRODUCING HORIZON OPG CONFIDENCE POSSIBLE

## WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION ELECTRIC CASING OTHER PIPE COMPOSITION STEEL  
 METERS FROM HEAD 50 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY CONSTANT  
 DEPTH TO PROD HORIZON(M) 3 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 3 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

## REMARKS:

1-38 INKSTER S.E. N.D. 7.5' MAP, SAMPLE TAKEN FROM INSIDE HOUSE FAUCET, WELL LOCATED BELOW CEMENT COVER 2M. SOUTH OF HOUSE;  
 1-60 ROW CROPS;  
 1-78 ORIN KNUDSON & BOX 63 & LARIMER, N.D. 58251;  
 3-20 CEMENT CASING;

607115 TYPE WELL WATER REPLICATE SAMPLER SLK AIR TEMP(C) + 28.0 WEATHER LT WIND-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0815 TIME TAKEN 18/12/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.006( 48 0'21") LONG 97.553( 97 33'10") CONTAMINANTS AGRICULTURA  
 SURFACE GEOL UNIT OTL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 5600 DISSOLVED OXYGEN(PPM) 9.5  
 WATER TEMP(C) + 14.9 VISIBILITY(M) CLEAR PH 7.2 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 248 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 242  
 APPEARANCE CLEAR DISCHARGE(L/M) 11.00 SOURCE PUBLICATION  
 PRODUCING HORIZON OPG CONFIDENCE HIGH

## WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION ELECTRIC CASING OTHER PIPE COMPOSITION COPPER  
 METERS FROM HEAD 8 WITH RESPECT TO PRESSURE TANK AFTER USE NONE PUMPING FREQUENCY RARE  
 DEPTH TO PROD HORIZON(M) 10 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 10 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

## REMARKS:

1-38 INKSTER S.E. N.D. 7.5' MAP, SAMPLE TAKEN FROM OUTSIDE HOUSE FAUCET, WELL LOCATED UNDER CEMENT COVER 2M. SOUTH OF HOUSE,  
 8M. NORTH OF DRIVEWAY;  
 1-60 ROW CROPS;  
 1-78 MILTON KUAMME & LARIMORE, N.D. 58251;  
 3-20 CEMENT CASING;

607116 TYPE WELL WATER REPLICATE SAMPLER SLK AIR TEMP(C) + 28.0 WEATHER LT WIND-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0816 TIME TAKEN 18/12/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.006( 48 0'21") LONG 97.697( 97 41'49") CONTAMINANTS AGRICULTURA  
 SURFACE GEOL UNIT OPL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY (MICROMHOS/CM)	1040	DISSOLVED OXYGEN (PPM)	6.2
WATER TEMP (C)	+ 15.1	VISIBILITY (M)	CLEAR	PH 7.0	LO-ION PAPER
TOTAL ALKALINITY (PPM)	270	P ALKALINITY (PPM)	< 5	M ALKALINITY (PPM)	268
APPEARANCE	CLEAR	DISCHARGE (L/M)	10.00	SOURCE GEOL. INFERENCE	
PRODUCING HORIZON	OPG	CONFIDENCE	POSSIBLE		

WELL INFORMATION:

TYPE	DUG	POWER CLASSIFICATION	ELECTRIC	CASING OTHER	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD	3	WITH RESPECT TO PRESSURE TANK	AFTER	USE HOUSEHOLD	PUMPING FREQUENCY	CONSTANT
DEPTH TO PROD HORIZON (M)	9	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	GEOL. INFERENCE	
WELL DEPTH (M)	9	CONFIDENCE OF WELL DEPTH	PROBABLE	SOURCE OF DEPTH INFORMATION	OWNER	

REMARKS:

1-38 ORR N.D. 7.5' MAP, SAMPLE TAKEN FROM OUTSIDE HOUSE FAUCET, WELL LOCATED UNDER CEMENT COVER 2 METERS SOUTH OF HOUSE 6M. EAST OF POWER POLE;  
 1-60 ROW CROPS (PETS);  
 1-78 JOHN EMSLIE & BOX 49 & MCCANNA, N.D. 58253;  
 3-20 CEMENT CASING;

607117 TYPE WELL WATER REPLICATE SAMPLER SLK AIR TEMP (C) + 28.0 WEATHER LT WIND-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0817 TIME TAKEN 09/13/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.219 (48 13' 8") LONG 97.710 (97 42' 36") CONTAMINANTS AGRICULTURA  
 SURFACE GEOL UNIT QTL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY (MICROMHOS/CM)	1220	DISSOLVED OXYGEN (PPM)	5.6
WATER TEMP (C)	+ 9.0	VISIBILITY (M)	CLEAR	PH 6.4	LO-ION PAPER
TOTAL ALKALINITY (PPM)	417	P ALKALINITY (PPM)	< 5	M ALKALINITY (PPM)	422
APPEARANCE	CLEAR	DISCHARGE (L/M)	10.00	SOURCE GEOL. INFERENCE	
PRODUCING HORIZON	OPG	CONFIDENCE	POSSIBLE		

WELL INFORMATION:

TYPE	DUG	POWER CLASSIFICATION	ELECTRIC	CASING GALVANIZED	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD	0	WITH RESPECT TO PRESSURE TANK	NONE	USE STOCK	PUMPING FREQUENCY	FREQUENT
DEPTH TO PROD HORIZON (M)	4	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	GEOL. INFERENCE	
WELL DEPTH (M)	4	CONFIDENCE OF WELL DEPTH	PROBABLE	SOURCE OF DEPTH INFORMATION	OWNER	

REMARKS:

1-38 INKSTER N.D. 7.5' MAP, SAMPLE TAKEN FROM WELL HEAD IN WELL HOUSE, WELL LOCATED 10 EAST OF BARN 20 METERS NORTHWEST OF HOUSE;  
 1-60 ROW CROPS;  
 1-78 EDWARD KOTASKA & FORDVILLE, N.D. 58231;

607118 TYPE STREAM SEDIMENT REPLICATE SAMPLER SLK AIR TEMP (C) + 29.0 WEATHER LT WIND-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0818 TIME TAKEN 10/13/07/79 RELIEF FLAT VEGETATION GRASS-DENSE  
 LOCATION: LAT 48.210 (48 12' 36") LONG 97.668 (97 40' 4") CONTAMINANTS AGRICULTURA  
 SURFACE GEOL UNIT OPG RESULTS REQ NO, RELEASED 801031 WATER: WIDTH (M) 6.00 DEPTH (M) 0.50 LEVEL POOLS  
 BED MATERIAL SILT SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION	WET	SAMPLE TREATMENT	NONE	NUMBER OF GRABS	8	ORGANIC MATERIAL (%)	45
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REMARKS:

1-38 INKSTER N.D. 7.5' MAP, SAMPLE TAKEN 125 METERS DOWNSTREAM FROM ROAD, INTERVAL OVER 20 METERS, STARTING 20M. NORTH OF TELEPHONE POLE;

1-60 ROW CROPS AND GRAVEL PIT 1KM. DOWNSTREAM;

607119	TYPE	STREAM SEDIMENT	REPLICATE	SAMPLER SLK	AIR TEMP(C)	+ 29.0	WEATHER	LT WIND-PT CLDY
	PHASE 2	MAP NM1412	SITE 0819	TIME TAKEN 10/13/07/79	RELIEF	FLAT	VEGETATION	GRASS-MODERATE
	LOCATION:	LAT 48.209 (48 12'32")	LONG 97.668 (97 40' 4")	CONTAMINANTS	AGRICULTURA	STREAM FLOW(M/SEC)		
	SURFACE GEOL UNIT	OPG	RESULTS REQ NO	RELEASED 801031	WATER: WIDTH(M)		DEPTH(M)	LEVEL DRY
					BED MATERIAL	SILT	SAMPLE: COLOR	M-GY-BK
								ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION	DRY	SAMPLE TREATMENT	NONE	NUMBER OF GRABS	9	ORGANIC MATERIAL(%)	45
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REMARKS:

1-38 INKSTER N.D. 7.5' MAP, SAMPLE TAKEN 25M. FROM ROAD, INTERVAL OVER 25M, STARTING 4M. NORTH OF ROW CROPS CORNER; 1-60 ROW CROPS, SOIL AND GRAVEL PIT 1KM. NORTH;

607120	TYPE	WELL WATER	REPLICATE	SAMPLER SLK	AIR TEMP(C)	+ 30.0	WEATHER	LT WIND-PT CLDY
	PHASE 2	MAP NM1412	SITE 0820	TIME TAKEN 11/13/07/79	RELIEF	FLAT	VEGETATION	GRASS-MODERATE
	LOCATION:	LAT 48.178 (48 10'40")	LONG 97.646 (97 38'45")	CONTAMINANTS	AGRICULTURA			
	SURFACE GEOL UNIT	QAL	RESULTS REQ YES	RELEASED 801031			SAMPLE: COLOR	-CL
								ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	2330	DISSOLVED OXYGEN(PPM)	9.9
WATER TEMP(C)	+ 10.4	VISIBILITY(M)	CLEAR	PH	6.0
TOTAL ALKALINITY(PPM)	518	P ALKALINITY(PPM)	15	M ALKALINITY(PPM)	514
APPEARANCE	CLEAR	DISCHARGE(L/M)	9.00		
PRODUCING HORIZON	OPG	CONFIDENCE	POSSIBLE	SOURCE	GEOL. INFERENCE

WELL INFORMATION:

TYPE	DUG	POWER CLASSIFICATION	ELECTRIC	CASING OTHER		PIPE COMPOSITION	PLASTIC
METERS FROM HEAD	0	WITH RESPECT TO PRESSURE TANK	NONE	USE STOCK		PUMPING FREQUENCY	FREQUENT
DEPTH TO PROD HORIZON(M)	6	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION		GEOL. INFERENCE	
WELL DEPTH(M)	6	CONFIDENCE OF WELL DEPTH	PROBABLE	SOURCE OF DEPTH INFORMATION		OWNER	

REMARKS:

1-38 INKSTER N.D. 7.5' MAP, SAMPLE TAKEN FROM WELL HEAD OUT OF PLASTIC TUBING, WELL LOCATED 7M. NORTH OF BARN IN CORRAL AROUND HOOD FENCE; 1-60 SUBMERSIBLE PUMP, STOCK, AND ROW CROPS; 1-78 GEORGE MIDBOE & INKSTER N.D. RURAL RTE 1 58244; 3-20 CEMENT CASING;

607121	TYPE	WELL WATER	REPLICATE	SAMPLER SLK	AIR TEMP(C)	+ 28.0	WEATHER	LT WIND-PT CLDY
	PHASE 2	MAP NM1412	SITE 0821	TIME TAKEN 11/13/07/79	RELIEF	LOW	VEGETATION	GRASS-MODERATE
	LOCATION:	LAT 48.167 (48 10' 1")	LONG 97.209 (97 42'32")	CONTAMINANTS	AGRICULTURA			
	SURFACE GEOL UNIT	QTL	RESULTS REQ YES	RELEASED 801031			SAMPLE: COLOR	-CL
								ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	430	DISSOLVED OXYGEN(PPM)	11.5
WATER TEMP(C)	+ 11.2	VISIBILITY(M)	CLEAR	PH	7.3
				LO-ION PAPER	

TOTAL ALKALINITY (PPM) 226 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 224  
 APPEARANCE CLEAR DISCHARGE (L/M) 13.00  
 PRODUCING HORIZON OPG CONFIDENCE POSSIBLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 0 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY CONSTANT  
 DEPTH TO PROD HORIZON (M) 3 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH (M) 3 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 INKSTER N.D. 7.5' MAP, SAMPLE TAKEN FROM WELL HEAD IN YELLOW HOUSE ON CORNER, WELL LOCATED BELOW GROUND IN YELLOW HOUSE ON SOUTH WEST CORNER OF SECTION 9;  
 1-60 ROW CROPS;  
 1-78 JOE MAENDALE & FORDVILLE, N.D. 58231;

607122 TYPE WELL WATER REPLICATE SAMPLER SLK AIR TEMP (C) + 28.0 WEATHER LT WIND-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0822 TIME TAKEN 13/13/07/79 RELIEF LOW VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.102 (48 6' 7") LONG 97.698 (97 41' 52") CONTAMINANTS AGRICULTURA  
 SURFACE GEOL UNIT OPG RESULTS REQ YES, RELEASED 801031 SAMPLE COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 2980 DISSOLVED OXYGEN (PPM) 6.7  
 WATER TEMP (C) + 8.9 VISIBILITY (M) CLEAR PH 6.9 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 424 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 420  
 APPEARANCE CLEAR DISCHARGE (L/M) 10.00  
 PRODUCING HORIZON OPG CONFIDENCE POSSIBLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION ELECTRIC CASING OTHER PIPE COMPOSITION GALVANIZED  
 METERS FROM HEAD 3 WITH RESPECT TO PRESSURE TANK AFTER USE STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON (M) 6 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH (M) 6 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 ORR N.D. 7.5' MAP, SAMPLE TAKEN FROM PLASTIC TUBE FROM WELL HEAD, WELL LOCATED 30M. NORTH OF GREEN HOUSE IN CORRAL 15M. SOUTH OF BARN;  
 1-60 ROW CROPS AND STOCK;  
 1-78 SCOTT DAV & INKSTER, N.D. 58244;  
 3-20 CEMENT CASING;

607123 TYPE STREAM SEDIMENT REPLICATE SAMPLER SLK AIR TEMP (C) + 29.0 WEATHER LT WIND-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0823 TIME TAKEN 13/13/07/79 RELIEF LOW VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 48.052 (48 3' 7") LONG 97.699 (97 41' 56") CONTAMINANTS AGRICULTURA STREAM FLOW (M/SEC) NONE  
 SURFACE GEOL UNIT OPG RESULTS REQ NO, RELEASED 801031 WATER: WIDTH (M) 2.50 DEPTH (M) 0.10 LEVEL NORMAL  
 BED MATERIAL SILT SAMPLE: COLOR M-GY-BK ODOR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL (%) 65

REMARKS:

1-38 ORR N.D. 7.5' MAP SAMPLE TAKEN 25M. UPSTREAM FROM ROAD, INTERVAL OVER 20 METERS, STARTING AT CATAILS 75M. WEST OF LINE OF ELM TREES;

1-60 ROW CROPS;

607124 TYPE STREAM SEDIMENT REPLICATE SAMPLER SLK AIR TEMP(C) + 28.0 WEATHER LT WIND-OVERCST  
 PHASE 1 MAP NM1412 SITE 0824 TIME TAKEN 14/13/07/79 RELIEF FLAT VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 48.052( 48 3' 7") LONG 97.731( 97 43' 51") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ NO , RELEASED 801031 WATER WIDTH(M) 6.00 DEPTH(M) 0.50 LEVEL HIGH  
 BED MATERIAL SAND SAMPLE: COLOR M-GY-BK ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 60

REMARKS:

1-38 ORR N.D. 7.5' MAP, SAMPLE TAKEN 25M. UPSTREAM FROM ROAD, INTERVAL OVER 20M, STARTING 15M WEST OF STREAM JUNCTION, 10M. NORTH OF ROW CROPS;  
 1-60 ROW CROPS;

607125 TYPE STREAM SEDIMENT REPLICATE SAMPLER SLK AIR TEMP(C) + 28.0 WEATHER LT WIND-OVERCST  
 PHASE 2 MAP NM1412 SITE 0825 TIME TAKEN 14/13/07/79 RELIEF FLAT VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 48.034( 48 2' 2") LONG 97.731( 97 43' 51") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ NO , RELEASED 801031 WATER WIDTH(M) 6.00 DEPTH(M) 0.50 LEVEL NORMAL  
 BED MATERIAL SILT SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 9 ORGANIC MATERIAL (%) 60

REMARKS:

1-38 ORR N.D. 7.5' MAP, SAMPLE TAKEN 25M. UPSTREAM FROM ROAD, INTERVAL OVER 20M., STARTING AT CATAILS AND 4M. SOUTH OF WOOD FENCE POSTS;  
 1-60 ROW CROPS (BEETS);

607126 TYPE WELL WATER REPLICATE SAMPLER SLK AIR TEMP(C) + 28.0 WEATHER LT WIND-OVERCST  
 PHASE 2 MAP NM1412 SITE 0826 TIME TAKEN 14/13/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.032( 48 1' 55") LONG 97.731( 97 43' 51") CONTAMINANTS AGRICULTURA  
 SURFACE GEOL UNIT QTL RESULTS REQ YES , RELEASED 801031 SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 490 DISSOLVED OXYGEN(PPM) 7.0  
 WATER TEMP(C) + 10.9 VISIBILITY(M) CLEAR PH 7.5 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 208 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 200  
 APPEARANCE CLEAR DISCHARGE(L/M) 13.00 SOURCE GEOL. INFERENCE  
 PRODUCING HORIZON QPG CONFIDENCE POSSIBLE

WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION ELECTRIC CASING OTHER PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 3 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY CONSTANT  
 DEPTH TO PROD HORIZON(M) 7 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 7 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 ORR N.D. 7.5' MAP, SAMPLE TAKEN FROM KITCHEN FAUCET, WELL LOCATED IN BASEMENT BELOW KITCHEN ON NORTH SIDE OF HOUSE;  
 1-60 ROW CROPS;

1-78 JOHN CLARK & MCCANNA, N.D. 58253;  
3-20 CEMENT CASING;

607127 TYPE STREAM SEDIMENT REPLICATE SAMPLER SLK AIR TEMP(C) + 27.0 WEATHER LT WIND-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0827 TIME TAKEN 15/13/07/79 RELIEF FLAT VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 48.061( 48 3'39") LONG 97.588( 97 35'16") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) NONE  
 SURFACE GEOL UNIT OPG RESULTS REQ NO , RELEASED 801031 WATER: WIDTH(M) 0.50 DEPTH(M) 0.25 LEVEL LOW  
 BED MATERIAL SILT SAMPLE: COLOR M-GY-BN QDOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 20

REMARKS:

1-38 INKSTER S.E. N.D. 7.5' MAP, SAMPLE TAKEN 30M EAST OF NORTH SOUTH ROW OF ELMS, INTERVAL OVER 20M, STARTING 60M WEST OF NORTHWARD BEND;  
1-60 ROW CROPS, SOIL;

607128 TYPE WELL WATER REPLICATE SAMPLER SLK AIR TEMP(C) + 27.0 WEATHER LT WIND-OVERCAST  
 PHASE 2 MAP NM1412 SITE 0828 TIME TAKEN 15/13/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.078( 48 4'40") LONG 97.617( 97 37' 1") CONTAMINANTS AGRICULTURA SAMPLE: COLOR -CL ODOR NONE  
 SURFACE GEOL UNIT OPG RESULTS REQ YES , RELEASED 801031

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 1890 DISSOLVED OXYGEN(PPM) 2.2  
 WATER TEMP(C) + 13.6 VISIBILITY(M) CLEAR PH 7.1 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 484 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 482  
 APPEARANCE CLEAR DISCHARGE(L/M) 10.00  
 PRODUCING HORIZON OPG CONFIDENCE POSSIBLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING OTHER PIPE COMPOSITION GALVANIZED  
 METERS FROM HEAD 12 WITH RESPECT TO PRESSURE TANK AFTER USE IRRIGATION PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON(M) 9 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 9 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 INKSTER S.E. N.D. 7.5' MAP, SAMPLE TAKEN FROM HOSE OF HOUSE FAUCET, WELL LOCATED BELOW CEMENT CAP 12M. WEST OF HOUSE, 13M NORTH OF GARAGE;  
1-60 ROW CROPS;  
1-78 LEHIS T. NELSON & GILBY, N.D. 58235;  
3-20 CEMENT CASING;

607129 TYPE WELL WATER REPLICATE SAMPLER SLK AIR TEMP(C) + 26.0 WEATHER -OVERCAST  
 PHASE 2 MAP NM1412 SITE 0829 TIME TAKEN 16/13/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.137( 48 8'13") LONG 97.623( 97 37'22") CONTAMINANTS AGRICULTURA SAMPLE: COLOR -CL ODOR NONE  
 SURFACE GEOL UNIT DTL RESULTS REQ YES , RELEASED 801031

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 1500 DISSOLVED OXYGEN(PPM) 11.1  
 WATER TEMP(C) + 10.4 VISIBILITY(M) CLEAR PH 7.2 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 264 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 262



APPEARANCE CLEAR DISCHARGE(L/M) 12.00  
 PRODUCING HORIZON QPG CONFIDENCE POSSIBLE SOURCE GEOL. INFERENCE

WELL INFORMATION:  
 TYPE DUG POWER CLASSIFICATION ELECTRIC CASING OTHER PIPE COMPOSITION PLASTIC  
 METERS FROM HEAD 18 WITH RESPECT TO PRESSURE TANK AFTER USE STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON(M) 7 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 7 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

REMARKS:  
 1-38 INKSTER N.E. N.D. 7.5' MAP, SAMPLE TAKEN FROM HYDRANT ON EAST SIDE OF BARN, WELL LOCATED UNDER SILVER HYDRANT 10M SOUTH OF HOUSE AND 5M NORTH OF POWER POLE;  
 1-60 ROW CROPS;  
 1-78 ELMER GONITZKE & INKSTER, N.D. 58244;  
 3-20 CEMENT;

607130 TYPE STREAM SEDIMENT REPLICATE SAMPLER SLK AIR TEMP(C) + 25.0 WEATHER -PT CLDY  
 PHASE G MAP NM1412 SITE 0830 TIME TAKEN 10/14/07/79 RELIEF FLAT VEGETATION DECIDUOUS-MODERATE  
 LOCATION: LAT 48.515 (48 30'54") LONG 97.658 (97 39'28") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) NONE  
 SURFACE GEOL UNIT QAL RESULTS REQ NO, RELEASED 801031 WATER WIDTH(M) 5.00 DEPTH(M) 1.00 LEVEL HIGH  
 BED MATERIAL SILT SAMPLE: COLOR M-GY-BN ODOR NONE  
 SEDIMENT INFORMATION:  
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 10

REMARKS:  
 1-38 CRYSTAL N.D. 7.5' MAP, SAMPLE TAKEN 70M. UPSTREAM FROM ROAD, INTERVAL OVER 20 METERS, STARTING AT BEND WEST PARALLEL TO ROAD;  
 1-60 ROW CROPS AND SOIL;

607131 TYPE WELL WATER REPLICATE SAMPLER SLK AIR TEMP(C) + 27.0 WEATHER LT WIND-PT CLDY  
 PHASE 2 MAP NM1412 SITE 0831 TIME TAKEN 10/14/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.524 (48 31'26") LONG 97.712 (97 42'43") CONTAMINANTS AGRICULTURA  
 SURFACE GEOL UNIT QAL RESULTS REQ YES, RELEASED 801031 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:  
 TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 3020 DISSOLVED OXYGEN(PPM) 7.7  
 WATER TEMP(C) + 13.3 VISIBILITY(M) CLEAR PH 5.6 LD-JON PAPER  
 TOTAL ALKALINITY(PPM) 470 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 468  
 APPEARANCE CLEAR DISCHARGE(L/M) 10.00  
 PRODUCING HORIZON QAL CONFIDENCE HIGH SOURCE PUBLICATION

WELL INFORMATION:  
 TYPE DUG POWER CLASSIFICATION ELECTRIC CASING OTHER PIPE COMPOSITION GALVANIZED  
 METERS FROM HEAD 0 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON(M) 7 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 7 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:  
 1-38 CRYSTAL N.D. 7.5' MAP, SAMPLE TAKEN FROM HYDRANT ABOVE WELL HEAD, WELL LOCATED 3M SOUTH OF RED BARN AND 35M. SOUTHWEST OF HOUSE;  
 1-60 ROW CROPS (WHEAT) AND STOCK;  
 1-78 ODIN SPRINGAN & HOOPLE N.D. 58243;

3-20 CEMENT CASTING

607132 TYPE STREAM SEDIMENT REPLICATE SAMPLER SLK AIR TEMP(C) + 27.0 WEATHER -PT CLDY  
 PHASE 2 MAP NH1412 SITE 0832 TIME TAKEN 10/14/07/79 RELIEF FLAT VEGETATION DECIDUOUS-MODERATE  
 LOCATION: LAT 48.523 (48 31' 22") LONG 97.710 (97 42' 36") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT QAL RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL SILT SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 30

REMARKS:

1-38 CRYSTAL N.D. 7.5' MAP SAMPLE TAKEN 25M. WEST OF ROAD INTERVAL OVER 20M. STARTING 15M. NORTH OF WOOD PILE;  
 1-60 ROW CROPS;

607133 TYPE STREAM SEDIMENT REPLICATE SAMPLER SLK AIR TEMP(C) + 27.0 WEATHER -PT CLDY  
 PHASE 2 MAP NH1412 SITE 0833 TIME TAKEN 11/14/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
 LOCATION: LAT 48.530 (48 31' 48") LONG 97.669 (97 40' 8") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) STAG  
 SURFACE GEOL UNIT QAL RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) 3.00 DEPTH(M) 0.25 LEVEL POOLS  
 BED MATERIAL SILT SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 30

REMARKS:

1-38 CRYSTAL N.D. 7.5' MAP SAMPLE TAKEN 25M. UPSTREAM FROM ROAD, INTERVAL OVER 20M. STARTING 250M EAST OF STORAGE BINS;  
 1-60 ROW CROPS;

607134 TYPE STREAM SEDIMENT REPLICATE SAMPLER SLK AIR TEMP(C) + 28.0 WEATHER -PT CLDY  
 PHASE 2 MAP NH1412 SITE 0834 TIME TAKEN 11/14/07/79 RELIEF FLAT VEGETATION DECIDUOUS-MODERATE  
 LOCATION: LAT 48.521 (48 31' 15") LONG 97.557 (97 33' 25") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) NONE  
 SURFACE GEOL UNIT QTL RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) 4.00 DEPTH(M) 0.50 LEVEL NORMAL  
 BED MATERIAL CLAY SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 11 ORGANIC MATERIAL(%) 40

REMARKS:

1-38 CRYSTAL S.E. N.D. 7.5' MAP, SAMPLE TAKEN 20M. UPSTREAM FROM ROAD, INTERVAL OVER 20M. STARTING AT CATTAILS;  
 1-60 ROW CROPS;

607135 TYPE STREAM SEDIMENT REPLICATE SAMPLER SLK AIR TEMP(C) + 27.0 WEATHER -PT CLDY  
 PHASE 2 MAP NH1412 SITE 0835 TIME TAKEN 12/14/07/79 RELIEF LOW VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 48.553 (48 33' 10") LONG 97.623 (97 37' 22") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT QAL RESULTS REQ NO ,RELEASED 801031 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL CLAY SAMPLE: COLOR M-RD-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 30

## REMARKS:

1-38 CRYSTAL S.E. N.D. 7.5' MAP, SAMPLE TAKEN 25M UPSTREAM FROM ROAD, INTERVAL OVER 20M, STARTING AT THE END OF YOUNG COTTONWOOD TREES;  
1-60 ROW CROPS;

607136 TYPE STREAM SEDIMENT REPLICATE SAMPLER SLK AIR TEMP(C) + 27.0 WEATHER -PT CLDY  
PHASE 0 MAP NM1412 SITE 0836 TIME TAKEN 12/14/07/79 RELIEF LOW VEGETATION DECIDUOUS-MODERATE  
LOCATION: LAT 48.558 (48 33' 28") LONG 97.711 (97 42' 39") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) STAG  
WATER: WIDTH(M) 3.00 DEPTH(M) 1.00 LEVEL POOLS  
SURFACE GEOL UNIT QAL RESULTS REQ NO ,RELEASED 801031 BED MATERIAL CLAY SAMPLE: COLOR M-GY-BK ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 30

## REMARKS:

1-38 CRYSTAL N.D. 7.5' MAP, SAMPLE TAKEN 25 METERS UPSTREAM FROM ROAD, INTERVAL OVER 20M, STARTING AT ELM TREE ON WEST BANK.  
1-60 ROW CROPS (BEETS);

607137 TYPE STREAM SEDIMENT REPLICATE SAMPLER SLK AIR TEMP(C) + 28.0 WEATHER -PT CLDY  
PHASE 2 MAP NM1412 SITE 0837 TIME TAKEN 12/14/07/79 RELIEF FLAT VEGETATION MODERATE  
LOCATION: LAT 48.592 (48 35' 31") LONG 97.689 (97 41' 20") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)  
WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
SURFACE GEOL UNIT QAL RESULTS REQ NO ,RELEASED 801031 BED MATERIAL CLAY SAMPLE: COLOR M-GY-BK ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 30

## REMARKS:

1-38 CRYSTAL N.D. 7.5' MAP SAMPLE TAKEN 25M UPSTREAM FROM ROAD, INTERVAL OVER 20 METERS;  
1-55 WHEAT FIELD;  
1-60 ROW CROPS;

607138 TYPE STREAM SEDIMENT REPLICATE SAMPLER SLK AIR TEMP(C) + 27.0 WEATHER -PT CLDY  
PHASE 2 MAP NM1412 SITE 0838 TIME TAKEN 13/14/07/79 RELIEF FLAT VEGETATION MODERATE  
LOCATION: LAT 48.631 (48 37' 51") LONG 97.651 (97 39' 3") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)  
WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
SURFACE GEOL UNIT QPL RESULTS REQ NO ,RELEASED 801031 BED MATERIAL CLAY SAMPLE: COLOR M-GY-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 9 ORGANIC MATERIAL(%) 30

## REMARKS:

1-38 HENSEL N.D. 7.5' MAP, SAMPLE TAKEN 25M UPSTREAM FROM ROAD, INTERVAL OVER 20M.  
1-55 BEET FIELD;  
1-60 ROW CROPS AND SOIL;

607139 TYPE STREAM SEDIMENT REPLICATE SAMPLER SLK AIR TEMP(C) + 28.0 WEATHER -PT CLDY  
PHASE 2 MAP NM1412 SITE 0839 TIME TAKEN 13/14/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE  
LOCATION: LAT 48.631 (48 37' 51") LONG 97.738 (97 44' 16") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) NONE

SURFACE GEOL UNIT QPL RESULTS REQ NO ,RELEASED 801031

WATER: WIDTH(M) 0.50 DEPTH(M) 0.25 LEVEL LOW  
 BED MATERIAL SILT SAMPLE: COLOR L-YL-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 20

REMARKS:

J-38 HENSEL N.D. 7.5' MAP, SAMPLE TAKEN 25M, UPSTREAM FROM ROAD, INTERVAL OVER 20M, STARTING 10M, SOUTH OF BEND AND 7M, WEST OF ROW CROPS;  
 J-60 ROW CROPS (BEETS);

607140 TYPE STREAM SEDIMENT REPLICATE SAMPLER SLK  
 PHASE G MAP NM1412 SITE 0840 TIME TAKEN 13/14/07/79  
 LOCATION: LAT 48.658 (48 39' 28") LONG 97.623 (97 37' 22")

AIR TEMP(C) + 28.0 WEATHER -PT CLDY  
 RELIEF FLAT VEGETATION -MODERATE  
 CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL SILT SAMPLE: COLOR M-GY-BK ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 35

REMARKS:

J-38 CRYSTAL N.E. N.D. 7.5' MAP, SAMPLE TAKEN 25M, UPSTREAM FROM ROAD, INTERVAL OVER 20M, L  
 I-55 WHEAT FIELD;  
 I-60 ROW CROPS, SOIL, AND ALKALI;

607141 TYPE STREAM SEDIMENT REPLICATE SAMPLER SLK  
 PHASE G MAP NM1412 SITE 0841 TIME TAKEN 14/14/07/79  
 LOCATION: LAT 48.686 (48 41' 9") LONG 97.536 (97 32' 9")

AIR TEMP(C) + 28.0 WEATHER -PT CLDY  
 RELIEF FLAT VEGETATION GRASS-MODERATE  
 CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) NONE  
 WATER: WIDTH(M) 2.00 DEPTH(M) 0.50 LEVEL LOW  
 BED MATERIAL SILT SAMPLE: COLOR M-BN-BK ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 40

REMARKS:

J-38 CRYSTAL N.E. N.D. 7.5' MAP, SAMPLE TAKEN 25M, UPSTREAM FROM ROAD, INTERVAL OVER 20M, STARTING 10M, WEST OF WHEAT CROPS, L  
 I-60 ROW CROPS;

607142 TYPE STREAM SEDIMENT REPLICATE SAMPLER SLK  
 PHASE 2 MAP NM1412 SITE 0842 TIME TAKEN 14/14/07/79  
 LOCATION: LAT 48.715 (48 42' 54") LONG 97.513 (97 30' 46")

AIR TEMP(C) + 28.0 WEATHER -PT CLDY  
 RELIEF FLAT VEGETATION GRASS-MODERATE  
 CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL CLAY SAMPLE: COLOR M-BK-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 30

REMARKS:

J-38 CRYSTAL N.E. N.D. 7.5' MAP, SAMPLE TAKEN 25M, UPSTREAM FROM ROAD, INTERVAL OVER 20 METERS, STARTING 2M NORTH AND SOUTH OF ROW CROPS;  
 I-60 ROW CROPS;

LAB WATERS	602623	001	THIEF RIVER F	055	THIEF RIVER F	109	THIEF RIVER F	163	THIEF RIVER F	217
	602623	002		056	602764	110		164	606948	218
	602623	003	602639	057		111	602895	165	606951	219
	602679	004		058		112		166		220
	602679	005		059	602771	113		167		221
	602679	006	602646	060		114		168		222
	602736	007	602648	061		115	602904	169		223
	602736	008		062		116		170	606964	224
	602736	009		063	602780	117		171		225
	602793	010	602656	064		118	606801	172	606969	226
	602793	011		065		119		173		227
	602793	012		066		120	606808	174	606973	228
	602850	013	602663	067		121	606812	175	606977	229
	602850	014		068		122	606816	176	606981	230
	602850	015		069	602795	123	606821	177	606985	231
	602906	016		070		124		178	607006	232
	602906	017	602672	071	602800	125	606826	179	607010	233
	602906	018		072		126		180	607014	234
	606932	019		073		127		181		235
	606932	020	602679	074	602807	128	606834	182	607022	236
	606932	021		075		129		183		237
	607108	022		076		130		184	607028	238
	607108	023		077	602814	131		185	607030	239
	607108	024		078		132	606846	186		240
	607327	025	602691	079		133	606850	187		241
	607327	026	602693	080		134	606854	188	607037	242
	607327	027		081	602824	135		189	607039	243
LAB SEDIMENT	606801	028		082		136		190		244
	606801	029	602700	083	602829	137	606864	191		245
	606801	030		084		138		192	607046	246
	606893	031		085		139		193		247
	606893	032		086		140		194	607048	248
	606893	033	602709	087	602839	141	606873	195	607055	249
	607005	034		088		142	606875	196	607058	250
	607005	035		089		143		197	607062	251
	607005	036	602717	090	602846	144		198		252
	607135	037		091		145	606883	199		253
	607135	038		092		146	606887	200	607073	254
	607135	039		093	602853	147		201		255
	607206	040	602726	094		148		202		256
	607206	041		095		149		203		257
	607206	042		096		150		204		258
	607308	043	602733	097	602863	151	606909	205	607111	259
	607308	044		098		152	606912	206	607114	260
	607308	045		099	602868	153	606915	207		261
	607397	046	602740	100	602870	154	606918	208	607119	262
	607397	047		101		155	606921	209		263
	607397	048		102		156		210	607124	264
		049		103	602877	157		211	607127	265
THIEF RIVER F	602623	050	602749	104	602879	158		212		266
		051		105		159		213	607132	267
		052		106		160	606935	214	607136	268
		053	602756	107	602886	161	606938	215		269
	602632	054		108		162		216		