

NOVA GROUP
MITCHELL AIRPORT HYDRANT FUEL REPLACEMENT

04 December 2023

MEMORANDUM FOR WISCONSIN DEPARTMENT OF NATURAL RESOURCES

FROM: Mike Shrum

Nova Group
185 Devlin Road
Napa Ca 94558

SUBJECT: Materials Management Plan — Project # W9128-F22C-0030

1. Pursuant to Wisconsin Administrative Code NR 718, a materials management plan (MMP) is required for materials that could be removed that contain contaminants of concern. This memorandum serves as the material management plan that the Nova Group will follow during construction related to the Mitchell Fuel Hydrant Replacement Project which will be installed to the southwest of current fuel storage tanks.(see map)

This material management plan provides the process for handling soil that have the potential to contain contaminants of concern. This site is located in the NW Section 34 Township 6N, Range 22 42 East, 56' 15.47"N and 87 53' 18.52"W in Milwaukee County, Wisconsin.

2. Project Area Site Soil Results — With the construction of two storage tanks, POL facility, underground fuel piping, two Hydrant stands, electrical ductbank, pumphouse, and covered parking it was determined in concert with the Wisconsin Department of Natural Resources that a soils management plan for the management of perfluorinated contaminated soils should be established. After sampling multiple soil areas around the project to be removed, it was determined that perfluorinated compounds were present in the soils. Data for this determination was collected from the 45 borings and 9 monitor wells. Depths from 0-5 feet and J-10 feet were recorded(90 samples total) Sampling reports in project area (see attachment) performed on May 4-11 2023 and the FY16 Phase 1 Regional Site Inspection for Perfluorinated Compounds report. Perfluorinated compounds were detected in most soil samples in the vicinity of planned area. Concentrations of PFOS ranged from .249 to 3190. ug/kg. Sample report and *map* are attached to this letter. A copy of the FY16 Phase 1 Regional Site Inspection for Perfluorinated Compounds can be located on the BRRTS website.

– Site Soil Handling and Disposition Tank area — Soil from construction activities will fall into two possible categories with different disposition procedures. Implementation for this soil management plan is expected to occur from April 2024 to October 2024.

- To facilitate the proposed installation of Tanks in the project area, soil will be excavated approximately 1 foot to remove top soil and Geopier system will be utilized. The site will be over excavated by 5 feet to allow for forming of tank ring walls.
- Soils with perfluorinated compounds(sample areas A-3 and A-4 on report page 11. Soils from excavations from 0-1 feet pursuant to the fill location will ultimately be stored on impervious surface and removed offsite. Current estimated soils to be managed in this option is 4000 cubic yards dependent on if soil has no other contamination. This entire area will have a cover of concrete containment pad.
- However, it is anticipated that a large percentage of excess contaminated soil will remain following the installation of underground utilities, new clean backfill material, and backfilling the over excavation of the remainder of project area. These remaining soils (discussed in the bullet point above) will be stockpiled on impervious surfaces adjacent to the tank area and will eventually be disposed of at a licensed solid waste facility. Prior to disposal soils will be stored on site in accordance with NR 502. Current estimated soil to be managed in this option is approximately 2500 cubic yards.(not all excavations at once)Most of this area will be covered by asphalt and concrete.
- Soils with perfluorinated compounds may be used in pervious areas within the project site so long as the site conforms to NR 718.12 and is covered with minimum of one foot of clean soil, topsoil, and seeded. The location for soils to be reused would be within the backfill area of each excavation activity. These locations are greater than 100 feet South of the drainage ditch which has wetland characteristics, but which is not delineated as wetland per the Wisconsin Department of Natural Resources Surface Water Data Viewer database.

- Additionally, this ditch was determined as a non-navigable waterway in the past. This location poses no threat to public health, safety, or welfare for the environment as it is located on an industrial facility with a closed fence line. Additionally, contaminated soils would be covered with clean soil or below a pervious surface, therefore no direct contact can be made with contaminated soils. All contaminated soils in this area would be under both the industrial direct contact residual contact limit (RCL) and the non-industrial direct contact RCL. Only soils that were previously located in a pervious area (i.e. grass/gravel cover) will be reutilized under future planned pervious areas. A portion of soils will be removed and placed next to the excavation and then replaced in same footprint, in order to not introduce any additional contamination than what was previously there. This operation will prevent any increased risk for a pathway to groundwater as compared to if the soil was undisturbed by construction activities. Current estimated soils to be managed in this re use option is 500-750 cubic yards.

Site Soil Handling and Disposition for Pumphouse- the pumphouse area (sample site A-9 and A10) showed contamination levels of 61.3ng/g at site A-9. There would be a total of 250 cubic yards that might be possible to backfill, but *more* than likely will have to be removed from the site. Soil site A-10 has no detectable amounts from 0-5 feet.

Site Soil Handling and Disposition for POL building- The area for POL building is sample area A-32 at a level of 1.12ng/g and A-33 at a level of .494ng/g. The amount of excavation that will be required and possibly reusable is 550 cubic yards.

Site Soil Handling and Disposition of trench areas-The various areas of trenching that will need to be excavated is approximately 2500 cubic yards.(contamination ranges from No detection to 29.2 ng/g.) With the regulation of one foot of clean top soil required to be placed and the displacement of pipe, electrical ductbank, and drainage pipe, the average depth of 5 -10 feet, the total amount of 2500 cubic yards will be removed from the site.

3. Site Water Results — According to a previous PFAS Preliminary Assessment (PA), prepared by AMEC Foster Wheeler and dated 2016, groundwater in the project area flows from south to north in the area.

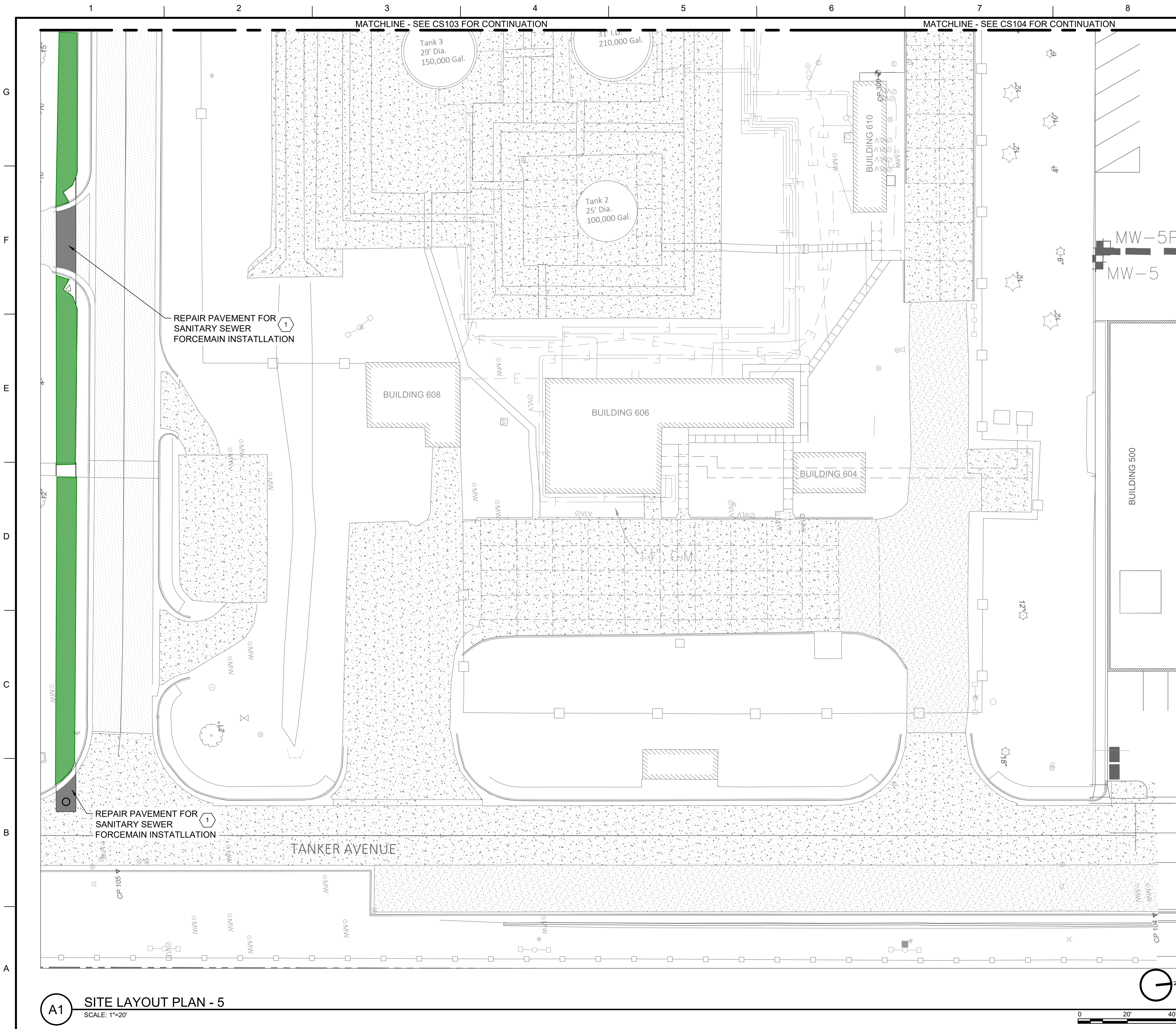
4. Site Water Handling and Disposition — Dewatering of each excavation should not occur as the depth of excavations does not penetrate the current water table of 10' of current GL in most areas. (See map of utility underground profile and current test results) If water table level is reached, water will be filtered and distributed on project site. If this activity is needed, a WDNES permit will be acquired.

The above and attached is the Nova Group approach to material management for Hydrant Fuel Replacement Project General Mitchell Field, Milwaukee, Wisconsin.

If you have any additional questions, please feel free to contact me Mike Shrum at 707-204-8584 or mike.shrum@novagrp.com for your review of this material management plan.

Attachments:

1. Map of PFOS areas
2. Lab Accreditations
3. Soil Sample locations May 2023
4. Water table results
5. Test area abandonment paperwork
6. Site Safety plan

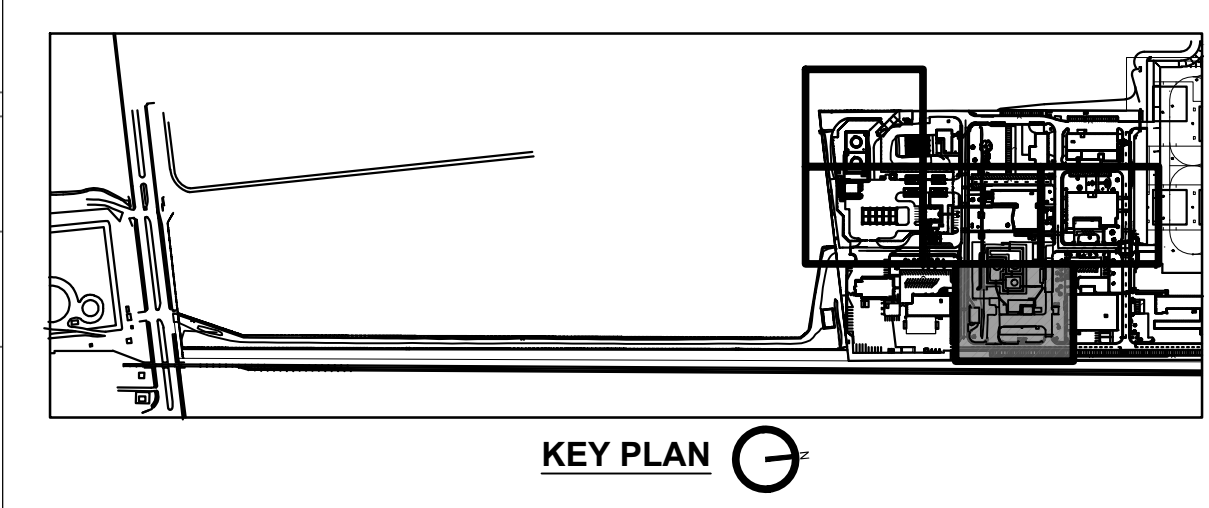


- NOTES:**
- SEE SHEET CS100 FOR GENERAL SITE NOTES.
 - SEE SHEET CS110 FOR COORDINATE POINTS TABLE.
 - SEE SHEET CG103 AND CG110 FOR ADDITIONAL SITE LAYOUT AND COORDINATE INFORMATION.

- LEGEND:**
- ASPHALT PAVEMENT (E1 CS505)
 - CURB AND GUTTER (C7 CS504)

KEYED NOTES:

1 CONTRACTOR SHALL RESTORE ALL PAVEMENT MARKINGS REMOVED DUE TO FUEL LINE INSTALLATION TO MATCH EXISTING CONDITIONS. MARKING MATERIALS AND CONSTRUCTION SHALL MEET SECTION 646 OF THE WISCONSIN DOT STANDARD SPECIFICATIONS (MOST RECENT).



A1 SITE LAYOUT PLAN - 5
SCALE: 1"=20'



DATE	MARK	DESCRIPTION
01/17/22	0	

DESIGNED BY: W. DEANBY	ISSUE DATE: 17 JANUARY 2022
DRAWN BY: J. EICHENBERGER	SCALE: AS SHOWN
CHECKED BY: S. McLAUGHLIN	CONTRACT NO.:
SUBMITTED BY: D. RODDY	FILE NO.:
SIZE: 34X22	AF 124-12-01

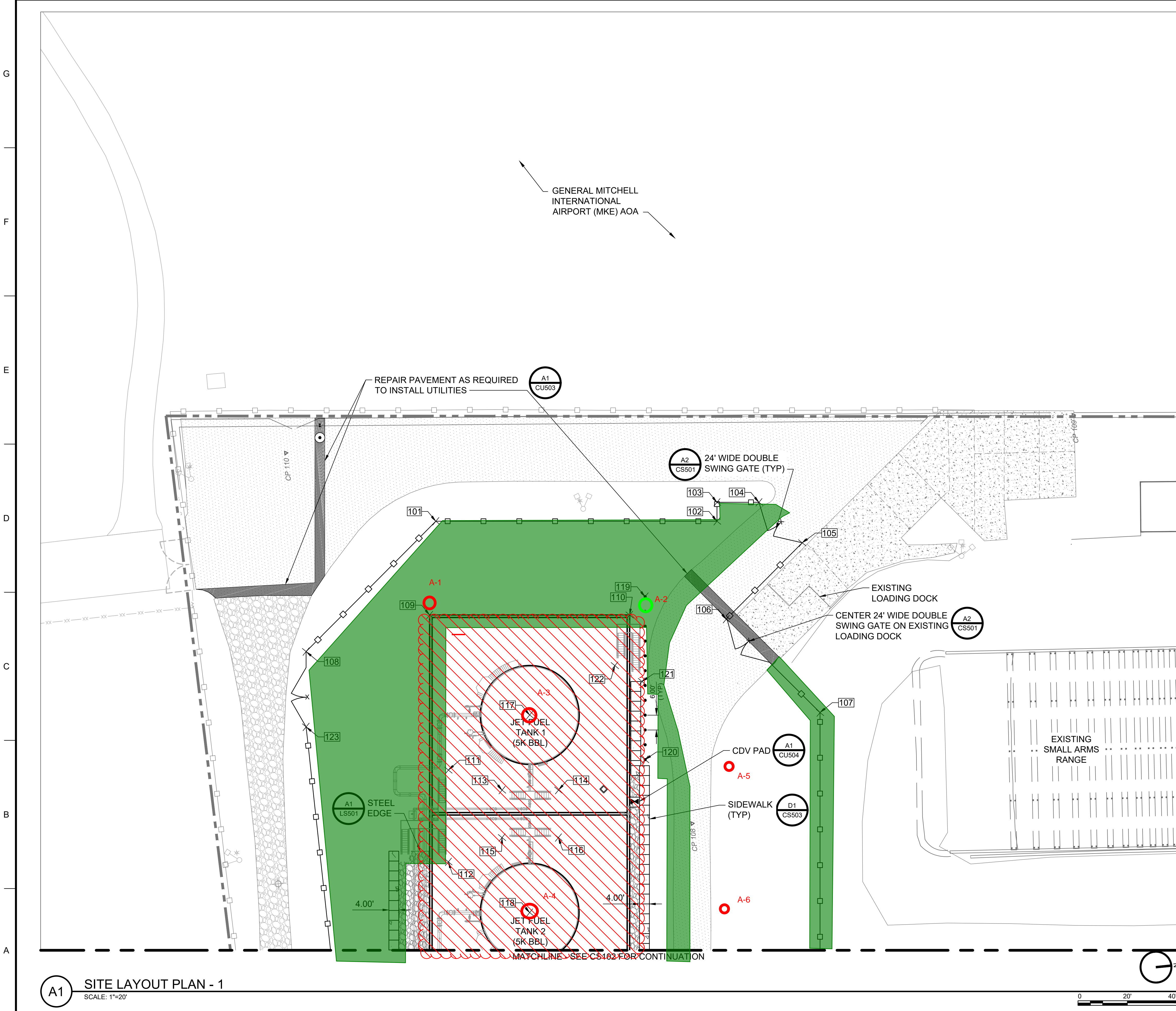
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OMAHA DISTRICT
1616 CAPITOL AVE, OMAHA, NE 68102

BURNS MEDONNELL

DESC2001 POL FACILITIES REPLACEMENT
GENERAL MITCHELL IAP, WI

SITE LAYOUT PLAN - 5

SHEET ID
CS105

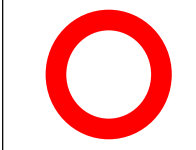


- NOTES:**
- SEE SHEET CS100 FOR GENERAL SITE NOTES.
 - SEE SHEET CS110 FOR COORDINATE POINTS TABLE.
 - SEE SHEET CG101 AND CG110 FOR ADDITIONAL SITE LAYOUT AND COORDINATE INFORMATION.
 - FOR SECURITY FENCE AND GATES LOCATED IN EXISTING PAVED AREA, CONTRACTOR SHALL CORE DRILL INTO EXISTING PAVEMENT SECTION AS REQUIRED FOR FENCE AND GATE FOUNDATIONS.
 - SEE SHEET CS111 FOR ELECTRICAL STRUCTURE LOCATION PLAN.

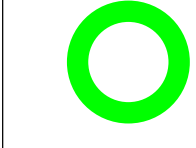
LEGEND:

- ASPHALT PAVEMENT (E1 CS505)
- GRAVEL (C1 CS505)
- GUARD POST (E7 CS503)
- SECURITY FENCE (E2 CS501)

Boring Locations



Monitoring Wells



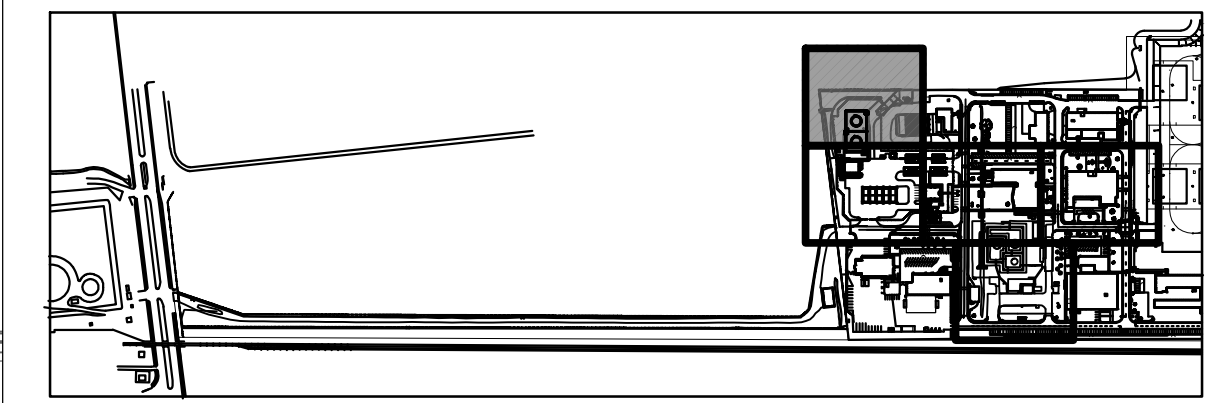
Grass



Electrical (Red Lines)

Fuel (Orange Lines)

concrete impervious surface



area to be excavated dirt removed



DATE	DESCRIPTION	MARK	RTA
01/17/22		0	

DESIGNED BY: W. J. EICHENBERGER	ISSUE DATE: 07 JANUARY 2022
CHECKED BY: S. McLAUGHLIN	PROJECT NO. NO. 191319-20-0006
CONTRACT NO.:	CONTRACT NO.:
FILE NO.:	FILE NO.:
AF 124-12-01	AF 124-12-01
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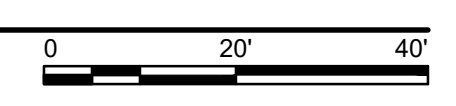
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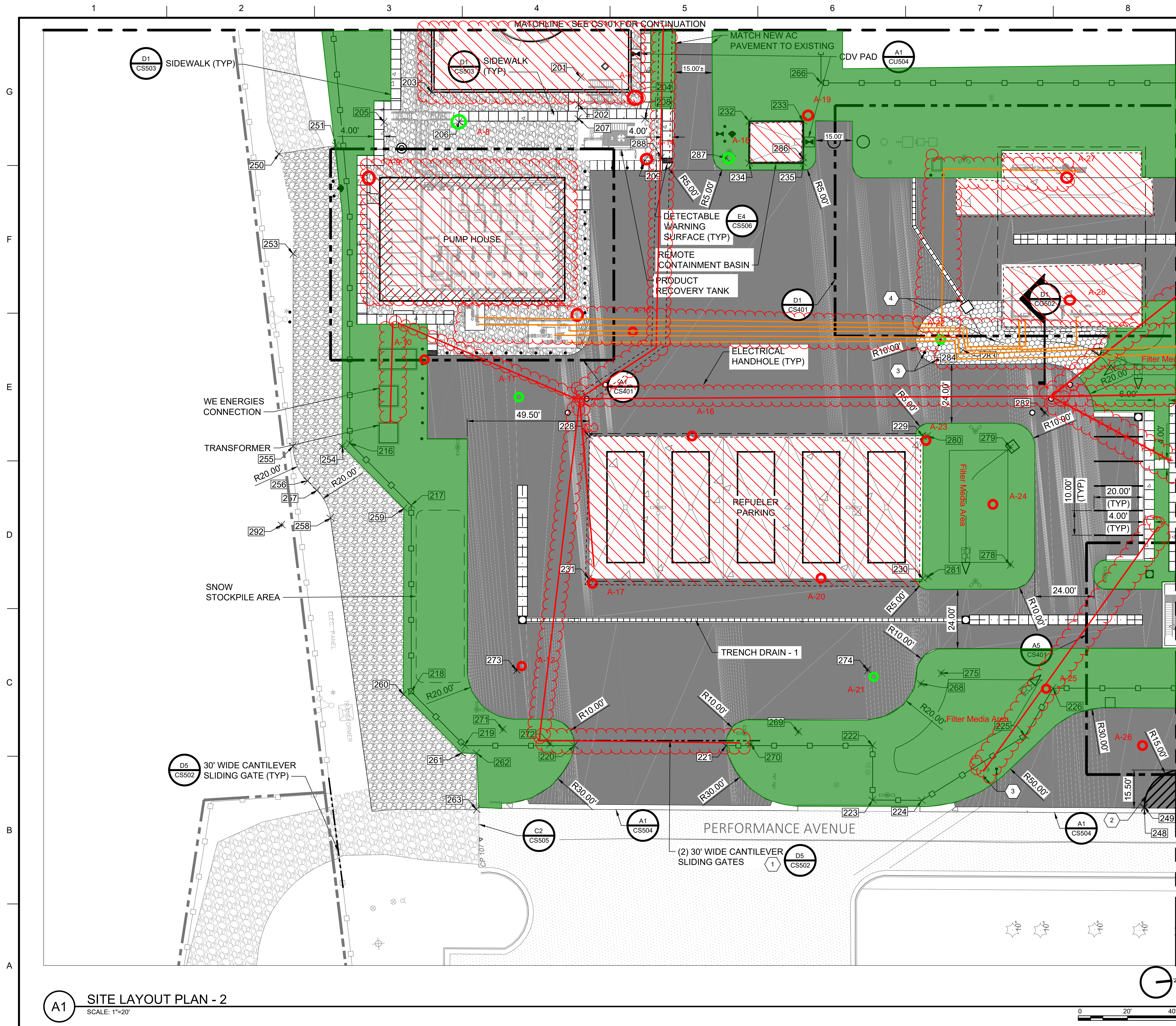
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SITE LAYOUT PLAN - 1

SHEET ID
CS101

A1 SITE LAYOUT PLAN - 1
SCALE: 1"=20'





NOTES:

- SEE SHEET CS100 FOR GENERAL SITE NOTES.
- SEE SHEET CS110 FOR COORDINATE POINTS TABLE.
- SEE SHEET CG102 AND CG110 FOR ADDITIONAL SITE LAYOUT AND COORDINATE INFORMATION.
- SEE SHEET CS111 FOR ELECTRICAL STRUCTURE LOCATION PLAN.

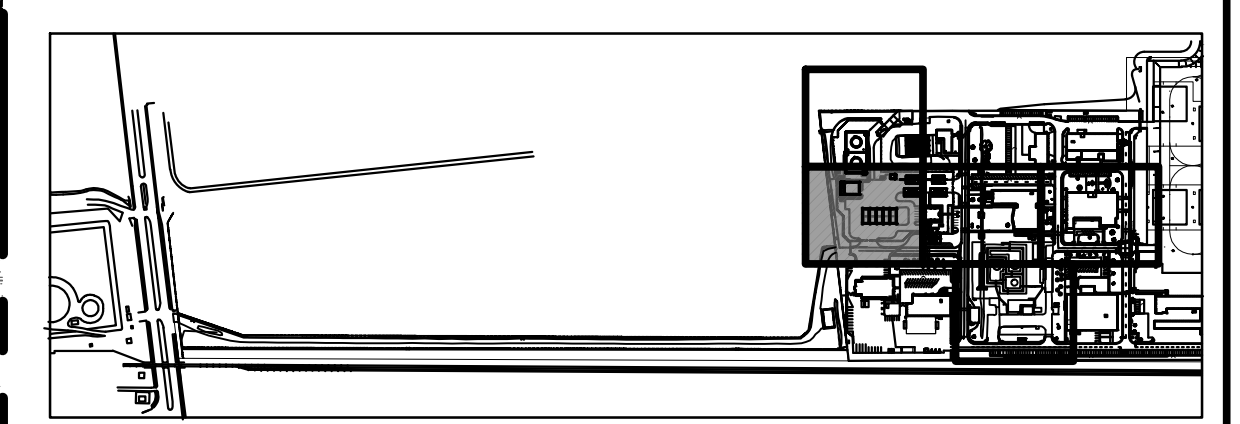
LEGEND:

- ASPHALT PAVEMENT (E1 CS505)
- RIPRAP (A1 CG502, E1 CG502)
- GRAVEL (C1 CS505)
- VALLEY GUTTER (A1 CS503)
- GUARD POST (E7 CS503)
- SECURITY FENCE (E2 CS501)
- TRENCH DRAIN (D1 CU508)
- CURB AND GUTTER (C7 CS504)

KEYED NOTES:

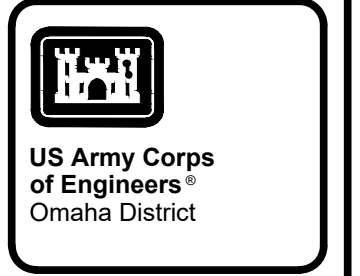
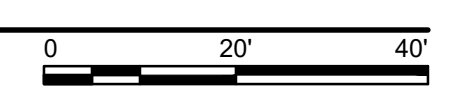
- DUAL CANTILEVER SLIDING GATES TO BE CONSTRUCTED WITH LOCKABLE LATCH WHERE GATES MEET AT CENTER OF ROADWAY.
- STRIPING AT MSS SHALL BE 4' WIDE YELLOW PAVEMENT MARKINGS. MARKINGS SHALL BE ANGLED AT 45° TO MSS AND SPACED AT 24".
- INSTALL TWO (2) GUARD POSTS AT EPDS BUTTON LOCATION. LOCATE GUARD POSTS TO FACE ROAD. GUARD POSTS SHALL BE SPACED AT 4' ON CENTER AND 2' FROM EPDS BUTTON.
- INSTALL RIPRAP LINED V-DITCH PER DETAIL D1 ON CG502. SEE SHEETS CG102 AND CG401 FOR GRADING INFORMATION.

- concrete impervious surface
- area to be excavated/trench



KEY PLAN

A1 SITE LAYOUT PLAN - 2
SCALE: 1"=20'



DATE	DESCRIPTION	MARK	RTA
01/17/22		0	

ISSUE DATE:	17 JANUARY 2022
DESIGNED BY:	W. DEWANEY
DRAWN BY:	J. EICHENBERGER
CHECKED BY:	S. McLAUGHLIN
FILE NO.:	AF124-12-01
DATE:	01/17/22
SIZE:	34X22

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OMAHA DISTRICT
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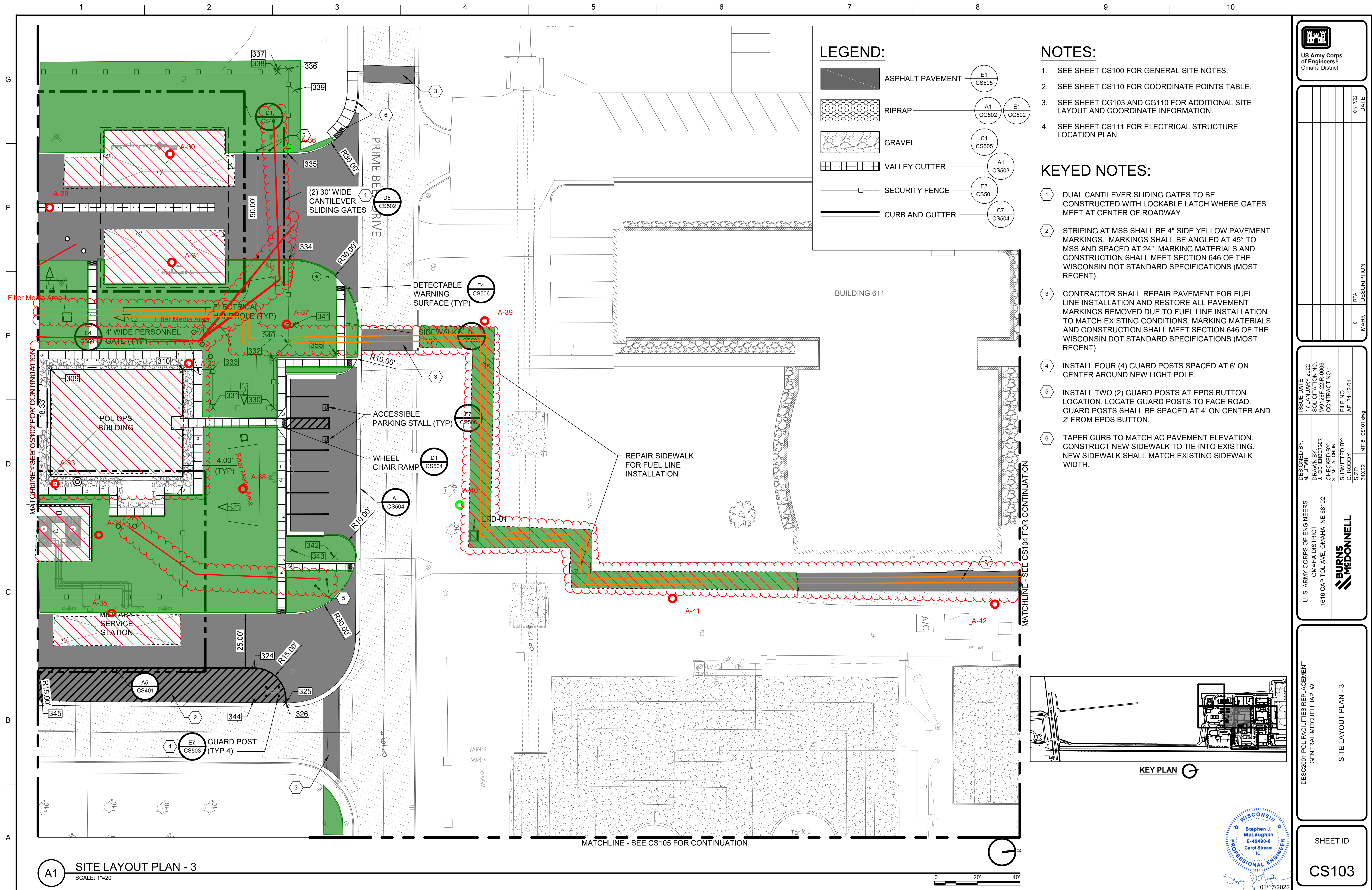
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GENERAL MITCHELL IAP, WI

SITE LAYOUT PLAN - 2



SHEET ID
CS102



LEGEND:

- ASPHALT PAVEMENT (E1 CS505)
- RIPRAP (A1 CG502, E1 CG502)
- GRAVEL (C1 CS505)
- VALLEY GUTTER (A1 CS503)
- SECURITY FENCE (E2 CS501)
- CURB AND GUTTER (C7 CS504)

NOTES:

1. SEE SHEET CS100 FOR GENERAL SITE NOTES.
2. SEE SHEET CS110 FOR COORDINATE POINTS TABLE.
3. SEE SHEET CG103 AND CG110 FOR ADDITIONAL SITE LAYOUT AND COORDINATE INFORMATION.
4. SEE SHEET CS111 FOR ELECTRICAL STRUCTURE LOCATION PLAN.

KEYED NOTES:

1. DUAL CANTILEVER SLIDING GATES TO BE CONSTRUCTED WITH LOCKABLE LATCH WHERE GATES MEET AT CENTER OF ROADWAY.
2. STRIPING AT MSS SHALL BE 4" SIDE YELLOW PAVEMENT MARKINGS. MARKINGS SHALL BE ANGLED AT 45° TO MSS AND SPACED AT 24". MARKING MATERIALS AND CONSTRUCTION SHALL MEET SECTION 646 OF THE WISCONSIN DOT STANDARD SPECIFICATIONS (MOST RECENT).
3. CONTRACTOR SHALL REPAIR PAVEMENT FOR FUEL LINE INSTALLATION AND RESTORE ALL PAVEMENT MARKINGS REMOVED DUE TO FUEL LINE INSTALLATION TO MATCH EXISTING CONDITIONS. MARKING MATERIALS AND CONSTRUCTION SHALL MEET SECTION 646 OF THE WISCONSIN DOT STANDARD SPECIFICATIONS (MOST RECENT).
4. INSTALL FOUR (4) GUARD POSTS SPACED AT 6' ON CENTER AROUND NEW LIGHT POLE.
5. INSTALL TWO (2) GUARD POSTS AT EPDS BUTTON LOCATION. LOCATE GUARD POSTS TO FACE ROAD. GUARD POSTS SHALL BE SPACED AT 4' ON CENTER AND 2' FROM EPDS BUTTON.
6. TAPER CURB TO MATCH AC PAVEMENT ELEVATION. CONSTRUCT NEW SIDEWALK TO TIE INTO EXISTING. NEW SIDEWALK SHALL MATCH EXISTING SIDEWALK WIDTH.



DATE	DESCRIPTION	MARK	RTA
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SUBMITTED BY: D. RODDY	FILE NO.:
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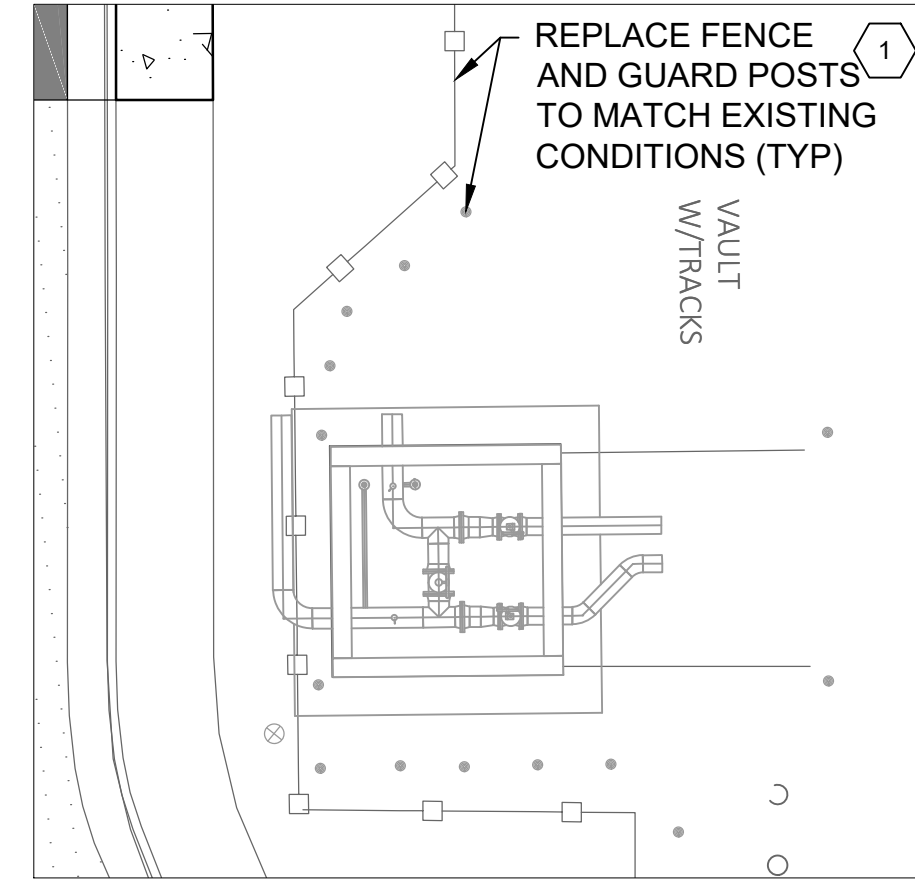
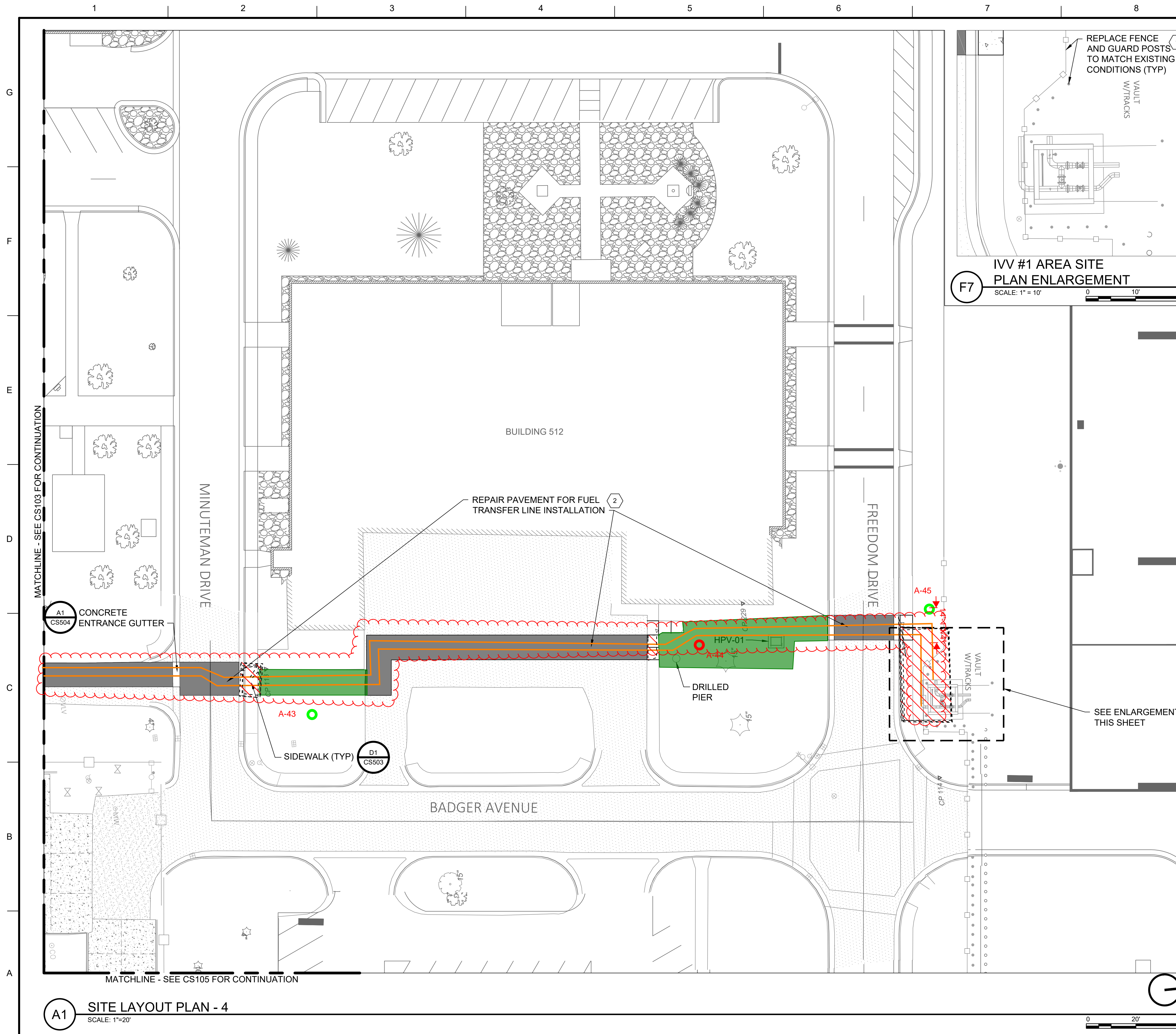
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GENERAL MITCHELL IAP, WI

SITE LAYOUT PLAN - 3

SHEET ID
CS103

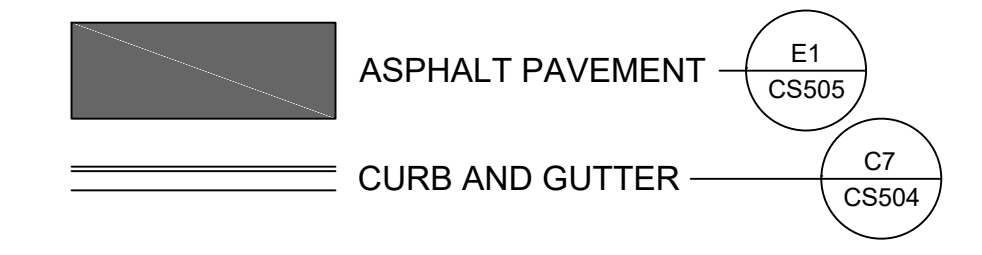




NOTES:

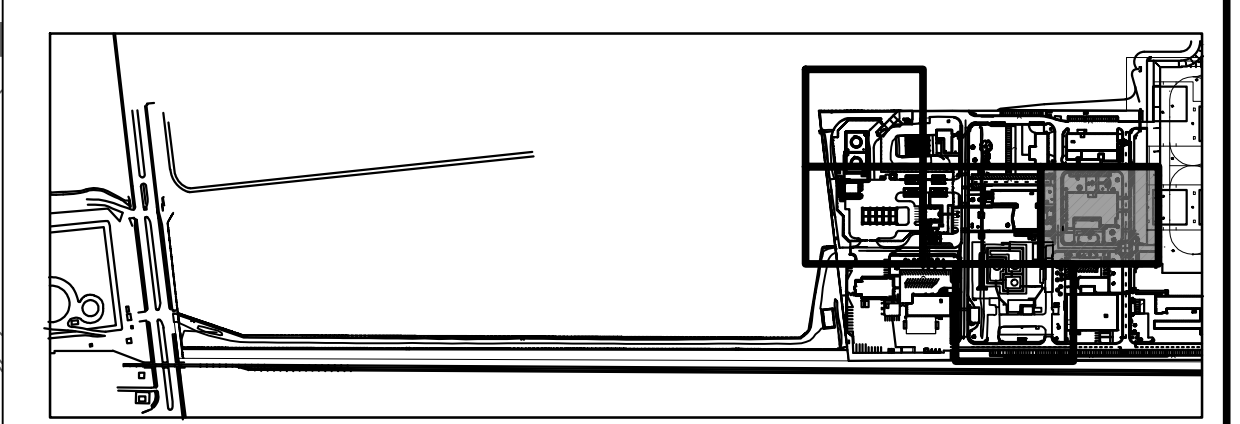
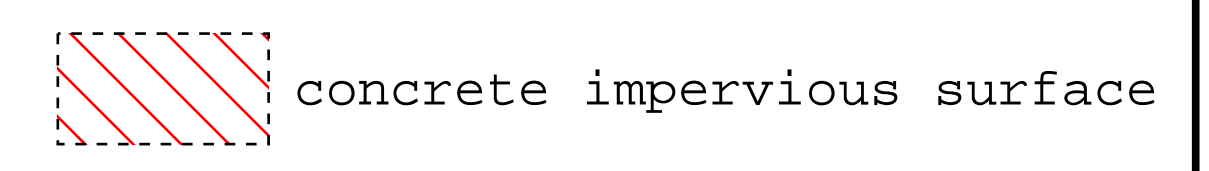
1. SEE SHEET CS100 FOR GENERAL SITE NOTES.
2. SEE SHEET CS110 FOR COORDINATE POINTS TABLE.
3. SEE SHEET CG103 AND CG110 FOR ADDITIONAL SITE LAYOUT AND COORDINATE INFORMATION.

LEGEND:



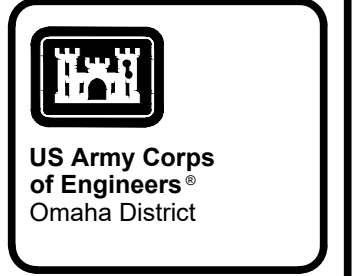
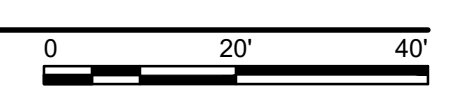
KEYED NOTES:

1. TEMPORARILY RELOCATE AOA FENCE INTO AOA TO BRING ISOLATION VALVE VAULT CONSTRUCTION AREA OUTSIDE OF AOA. COORDINATE WITH GOVERNMENT ON FINAL LOCATON OF TEMPORARY AOA FENCING.
2. CONTRACTOR SHALL RESTORE ALL PAVEMENT MARKINGS REMOVED DUE TO FUEL LINE INSTALLATION TO MATCH EXISTING CONDITIONS. MARKING MATERIALS AND CONSTRUCTION SHALL MEET SECTION 646 OF THE WISCONSIN DOT STANDARD SPECIFICATIONS (MOST RECENT).



KEY PLAN

A1 SITE LAYOUT PLAN - 4
SCALE: 1"=20'



DATE	DESCRIPTION
01/17/22	
0	MARK

ISSUE DATE:	17 JANUARY 2022
DESIGNED BY:	W. J. EICHENBERGER
DRAWN BY:	J. EICHENBERGER
CHECKED BY:	S. McLAUGHLIN
SUBMITTED BY:	D. RODDY
FILE NO.:	AF124-12-01
SIZE:	34X22

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SITE LAYOUT PLAN - 4



SHEET ID
CS104



SOIL AND GROUNDWATER SAMPLING REPORT
TO SUPPORT WASTE PROFILING AND DISPOSAL

Job Site:

FUEL FACILITY REPLACEMENT
WISCONSIN AIR NATIONAL GUARD AT
GENERAL MITCHELL INTERNATIONAL AIRPORT
MILWAUKEE, WISCONSIN

For:

NOVA Group, Inc.
Attn: Walt Schwartz, PE
1305 Lumsden Road
Port Orchard, WA 98367

KPH Project # **23-400-101**

Dean Jacobsen
Project Mdnager

Prepared by:

KPH Environmental
1237 West Bruce Street
Milwaukee, Wisconsin 53204

June 2023

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EXECUTIVE SUMMARY

KPH Environmental Corp (KPH), was retained by Nova Group, Inc., to conduct an investigation of soil and groundwater for waste profiling at the location of a planned Fuel Replacement Facility for the Wisconsin Air National Guard, General Mitchell International Airport, Milwaukee, Wisconsin. The purpose was to determine the contaminants that are present and to assist NOVA Group, Inc., in delineating contaminant concentrations within the planned construction area. The information gathered will be used for managing the soils excavated during construction and for waste profiling.

As part of this investigation KPH performed the following:

- Drilled 45 soil borings and collected soil samples from each boring from each 5 foot soil boring interval
- Installed 9 temporary monitoring wells and collected groundwater samples
- Had samples analyzed at the laboratory for volatile organic compounds (VOC), semi volatile organic compounds (SVOC), pesticides/herbicides, metals, reactive cyanide, reactive sulfide, ignitability, corrosivity, and perfluoroalkyl and polyfluoroalkyl compounds (PFA).

Soil samples were collected for laboratory analysis by the toxicity characteristic leaching procedure (TCLP). Results indicated that there were no detections for semi volatile organic compounds (SVOC), pesticides/herbicides, metals, reactive cyanide, reactive sulfide, or ignitability. Chlorobenzene was the only volatile organic compounds (VOC) detected, but at concentrations below the Wisconsin NR 661 Table 2 level for hazardous waste determination. Perfluoroalkyl and polyfluoroalkyl compounds (PFA) were detected in almost all of the samples collected. The most detections and highest concentrations of PFAs occurred in soil borings from the southwest part of the investigation area (Borings A-1 to A-9).

Groundwater samples were collected from the 9 temporary wells spaced throughout the investigation area. As with the soil sample results pesticides/herbicides, reactive cyanide, ignitability, and reactive sulfide were not detected. Some VOC and SVOC were detected in samples from 5 wells but below the NR140 enforcement standards (ES). One VOC, 1,2-Dichloroethane, was detected above the preventative action limit in Well A-2. Metals including cadmium, chromium, and lead were detected in all 9 samples with concentrations of metals being above the PALs in Wisconsin NR140, and some, like lead, above the ES in Wisconsin NR140. PFAs were detected in all samples. Currently Wisconsin does not have groundwater PALs or ESs for PFAs.

I. INTRODUCTION AND PURPOSE

KPH Environmental Corp., (KPH) was retained by Nova Group, Inc., to collect soil and groundwater samples at the location of a planned Fuel Replacement Facility for the Wisconsin Air National Guard at General Mitchell International Airport, Milwaukee, Wisconsin. The purpose of

this investigation is to gather information to assist in soil and groundwater waste profiling for the construction project.

Nova Group, Inc., authorized KPH to conduct the drilling and sampling, and to analyze samples collected. The field work (soil borings and soil sampling, temporary well installation, and groundwater sample collection) was conducted on May 4-11, 2023. Additional information on the work performed and results are contained in the following sections.

The area that has been identified for construction as the Wisconsin Air National Guard (WI ANG) Fuel Facility Replacement is currently a parking area, plus nearby grass covered areas southwest and north of the parking lot. See Appendix A for soil boring and well locations. KPH was informed that the WI ANG fire department used long stretches of road and grass in the southern third of Guard Central property for aqueous film-forming foam spray testing and calibration of vehicle equipment prior to August 2015. Foam was observed in the drainage ditch during various equipment testing events and the grassy area behind the CATM was used for testing at that time.

Based on this historical property usage, the soil and shallow groundwater were sampled in the area for per- and polyfluoroalkyl substances (PFAS) in 2019. PFCs (Perfluorinated Compounds) were detected in both shallow soil and ground water samples. No exceedances of the screening criteria were observed at that time.

KPH has been informed that NOVA Group, Inc., estimated that the planned construction of the fuel facilities will displace up to 19,700 in-place cubic yards of soil for items including duct bank excavation, site civil excavation, fuel line excavation, storm drain and containment drain, and pre-construction over excavation areas. Because of the limited placement options for this soil within WI ANG operated areas on Mitchell Airport property and considering an estimated 30 percent expansion factor for excavated soils, transportation and disposal of an estimated 25,600 cubic yards at off-site locations needs to be evaluated and considered.

Because the sampling was intended to aid NOVA Group, Inc., in evaluating waste disposal options, the soils were sampled for PFA concentrations, as well as waste profiling parameters. By pre-sampling the soils and groundwater in place with attention to subsequent off-site disposal options, the project can be planned to avoid generating stockpiles of soil that could delay construction due to delays in transportation and disposal off-site.

II. SUMMARY OF INVESTIGATION ACTIVITIES

A. SOIL BORINGS AND SAMPLING

Nova Group, Inc., prepared maps of the investigation area, choosing locations of the soil borings, along with the depth of each boring. A map showing the soil boring locations is in Appendix A. Soil sampling was conducted from May 5-10. A total of 45 soil borings were drilled, labeled A-1 to A-45.

KPH installed soil borings at each location using the direct push drilling technology. Baake Field Services of Grafton, Wisconsin, was retained to provide and operate the direct push equipment. This equipment was used based upon soil types of clay, silt, and sand that were anticipated. The boring locations chosen by Nova Group, Inc., were spaced throughout the planned construction area with the majority on the south end at the current parking lot, and southwest grassy area where the fire fighting practice foam was used in the past. Boring depths ranged from 5 feet to 20 feet below ground surface. The direct push method uses a 5 foot long steel core sampler with a plastic tube inside. As the core sampler is pushed into the ground soil accumulates inside the plastic tube. When the core sampler is withdrawn from the ground the plastic tube with soil is removed and cut open. The soil inside is then inspected and logged for soil types, moisture, and any visual or olfactory evidence of contamination.

Composite samples were collected from each five foot interval (e.g., 0 to 5 foot depth, 5 to 10 foot depth, etc.) for laboratory analysis. The purpose was to have samples that are representative of the excavated soil material. A total of 90 soil samples were collected for lab analysis. Each sample was composited in a stainless steel bowl and then labeled sample containers supplied by the laboratories were filled. Containers were then placed in a cooler on ice. Drilling and sampling equipment was decontaminated with lab grade soap and water, and rinsed with potable water and then deionized water.

At the end of each day sample coolers were taped and sealed, and then shipped with chain of custody forms by overnight service to the laboratories. Samples were collected for TCLP analysis of the following at Pace Analytical of Mount Juliet, Tennessee:

- VOCs by USEPA Methods 1311 and 8260D
- SVOCs by USEPA Methods 1311 and 8270D
- Priority Pollutant Metals by USEPA Methods 1311 and 6010C/7470
- Pesticides/Herbicides by USEPA Methods 1311 and 8151/8081
- Reactive Cyanide & Sulfide by SW 846 Ch 7/ASTM D4978
- Corrosivity (pH) by USEPA 9045, and
- Ignitability (Flash Point) by USEPA 010.

Samples collected for PFAs were analyzed at Alpha Analytical of Mansfield, Massachusetts using USEPA Method 1633 for the 40 PFA compounds.

Soil sample results are summarized and discussed in Section III A. The lab reports are in Appendix B.

B. WELLS AND GROUNDWATER SAMPLING

Nova Group, Inc, selected the locations of the temporary monitoring wells. Nine (9) temporary monitoring wells were installed at locations spaced throughout the planned construction area. The borings chosen for wells were those with depths of 15 to 20 feet and included A-2, A-18, A-29, A-33, A-37, A-38, A-40, A-43, and A-45. These depths were based upon the anticipated water table depth of 5 to 10 feet below ground surface. The approximate water depth for each

boring was determined by visually observing the soil samples from each interval and looking for saturated soils.

When the well depth was reached the wells were installed. The materials consisted of 1-inch outside diameter Schedule 40 polyvinyl chloride (PVC) with 10-feet of machine slotted screens with a Schedule 40 PVC riser up to the ground surface. A sand filter pack was poured around the screen and the remaining boring space was filled with granular bentonite up to approximately 2 inches below ground surface. A PVC cap was placed on each well.

Groundwater samples were collected on May 10-11, 2023. Before samples were collected the water depth in a well was measured with an electronic water level indicator. Approximately 3 well volumes of water were then purged from a well, or the well was purged dry. One (1) groundwater sample was then collected from each temporary well to represent the groundwater in that area. High density polyethylene (HDPE) tubing was inserted into the well riser with separate tubing dedicated to each well. The tubing was then connected to a portable peristaltic pump to collect the samples. With a peristaltic pump the water sample does not come into contact with the pump, only with the interior of the tubing. The labeled lab supplied containers were then filled with water and placed into coolers on ice.

At the end of each day sample coolers were taped and sealed, and then shipped with chain of custody forms by overnight service to the laboratories. Samples were collected for analysis of the following at Pace Analytical of Mount Juliet, Tennessee:

- VOCs by USEPA Method 8260D
- SVOCs by USEPA Method 8270D
- Priority Pollutant Metals by USEPA Method 6010C/7470
- Pesticides/Herbicides by USEPA Method 8151/8081
- Reactive Cyanide & Sulfide by SW 846 Ch 7/ASTM D4978
- Corrosivity (pH) by USEPA 9045, and
- Ignitability (Flash Point) by USEPA 010.

Samples collected for PFAs were analyzed at Alpha Analytical of Mansfield, Massachusetts using USEPA Method 1633.

Groundwater sample results are summarized and discussed in Section III B, with the lab reports in Appendix C.

III. RESULTS OF COMPOUNDS DETECTED

A. Soil Samples

A summary of the soil samples results is as follows:

There were no detections of reactive sulfide, pesticides, herbicides, or SVOCs by the TCLP method in any of the soil samples. Chlorobenzene was the only VOC detected, and was found in the following samples:

Soil Boring	Sample Depth	Chlorobenzene milligrams/Liter (mg/L)
A-2	0-5	0.105
A-2	10-15	0.0584
A-3	5-10	0.0855
A-3	10-15	0.125
A-4	5-10	0.0652
A-7	5-10	0.0795
A-15	0-5	0.0877
A-15	5-10	0.141
A-17	0-5	0.0083
A-18	5-10	0.153
A-19	0-5	0.0661
A-29	0-5	0.0758
A-29	5-10	0.0767
A-36	0-5	0.109
A-36	5-10	0.149
A-37	0-5	0.0590
A-37	5-10	0.0772
A-40	0-5	0.112
A-43	15-20	0.0682
A-45	0-5	0.162
A-45	5-10	0.0953
A-45	15-20	0.0848

In Wisconsin NR661 the Table 1 maximum concentration of contaminants for the toxicity characteristic regulatory level for chlorobenzene is 100 mg/L.

Reactive cyanide was detected in five (5) samples:

Soil Boring	Sample Depth	Reactive Cyanide (mg/kg)
A-2	0-5	0.272
A-7	0-5	0.133
A-8	0-5	0.468
A-15	0-5	0.377
A-15	5-10	0.341

The metal copper was detected in samples A-40 10-15 at 0.102 mg/L and A-29 5-10 at 0.151 mg/L.

There are no NR661 Table 1 levels for reactive cyanide or copper.

Soil pH values for all samples ranged between 7.5 and 8.5, which is slightly basic, but not corrosive. None of the samples were ignitable.

Some of the 40 PFA compounds were detected in all samples except A-33 5-10, A-37 5-10, A-38 5-10, A-39 10-15, A-41 15-20, A-41 5-10, A-43 10-15, A-43 10-15, A-43 15-20, and A-44 10-15. Where detected, concentrations of individual PFA compounds ranged from 0.191 nanograms per gram (ng/g) to 3,190 ng/g. In general, the highest concentrations were in the shallower soil sample depths and were detected in borings A-1 to A-8 and A-19.

The Wisconsin DNR has calculated a generic non-industrial direct contact residual contaminant level (RCL) for the PFA Perfluorooctanesulfonic Acid (PFOS) of 1,260 ng/g. This level was exceeded in six (6) samples: A-1 0-5 at 3,190, A-2 0-5 at 2,780, A-2 5-10 at 1,640, A-3 0-5 1 at 640 ng/g, in A-4 0-5 at 2,850 ng/g, and A-19 0-5 at 1,290 ng/g. There are no NR661 Table 1 levels for PFA compounds.

The laboratory reports for each soil sample, along with a table summarizing PFA results, are in Appendix B.

B. Groundwater Samples

A summary of the groundwater sample results is as follows:

There were no detections of reactive sulfide, reactive cyanide, pesticides, or herbicides in any of the groundwater samples. The pH of the water samples was around 6.91 - 7.57. None of the samples were ignitable. The following VOCs were detected in the groundwater samples:

- Acetone in A-18 at 0.111 mg/L, which is below Wisconsin NR 140 Enforcement Standard and Preventative Action Limit.
- 2-Butanone (Methyl Ethyl Ketone) in A-18, A33, and A-43 at 0.0122 mg/L, 0.00473 mg/L, and 0.00401 mg/L, respectively. These concentrations are below Wisconsin NR 140 Enforcement Standard and Preventative Action Limit.
- Naphthalene in A-33 at 0.00739 mg/L, which is below Wisconsin NR 140 Enforcement Standard and Preventative Action Limit.
- 1,2-Dichloroethane in A-2 at 0.000756 mg/L, which is below Wisconsin NR 140 Enforcement Standard but above the Preventative Action Limit.
- Methyl tert-butyl ether in A-2 at 0.000970 mg/L, which is below Wisconsin NR 140 Enforcement Standard and Preventative Action Limit.

The following SVOCs were detected in the sample from A-33:

- Fluoranthene at 0.00110 mg/L, Fluorene at 0.00237 mg/L, Naphthalene at 0.00437 mg/L, Phenanthrene at 0.00645 mg/L, and Pyrene at 0.000994 mg/L. All of these concentrations are below the Wisconsin NR 140 Enforcement Standards and Preventative Action Limits for each compound.

SVOCs were not detected in any of the other groundwater samples.

Metals, including beryllium, cadmium, chromium, copper, lead, nickel, and zinc were detected in each of the nine wells.

- Beryllium was above the Enforcement Standard in A-2, and above the Preventative Action Limit in A-18, A-43, and A-45.
- Cadmium was above the Enforcement Standard in A-45, and above the Preventative Action Limit in A-2, A-18, A-38, A-40, and A-43.
- Chromium was above the Preventative Action Limit in each well.
- Copper was above the Preventative Action Limit in A-40
- Lead concentrations were above the NR 140 Enforcement Standard in each well.
- Nickel was above the Enforcement Standard in A-2 and A-45, and above the Preventative Action Limit in the other seven wells.

There is no Erin content Standard or fiic>ntati>c Actiolä .1143ii li l'Zinc. A table summarizing metal results is in Appendix C.

PFAs were detected in groundwater samples from each of the nine wells. Concentrations of individual PFAs that were detected ranged from 1.74 rig/L to 236,000 ng/L. Highest concentrations were from wells A-2 and A-18, which are closets to the former fire training area. Lowest concentrations were in wells A-43 and A-45, to the north of the parking lot. Wisconsin DNR groundwater regulation NR 140 does not have an in koi'ceir(i141 lcl14C)£11'C(CU)'l'C\C HIGH i\C Acti mi L i unit liii' an; r1' the P F \ corn ouncls.

The laboratory reports for each groundwater sample, along with a table summarizing PFA results, are in Appendix C.

IV. LIMITATIONS

The care and skill given to our procedures insures the most reliable test results possible. The findings and conclusions of KPH represent our professional opinions extrapolated from limited data. No other warranty is expressed or implied.

This report and the information contained herein are prepared for the use and possession of Nova Group, Inc. No other person or entity may rely on this report or any information contained herein.

NOVA GROUP
MITCHELL AIRPORT HYDRANT FUEL REPLACEMENT

04December2023

MEMORANDUM FOR WISCONSIN DEPARTMENT OF NATURAL RESOURCES

FROM: Mike Shrum
Nova Group
185 Devlin Road
Napa CA, 94558

SUBJECT: Cover Maintenance Plan

1. This document is the Cover Maintenance Plan in accordance with NR 724.13(2), Wis. Adm. Code for the Fuel Hydrant Replacement Project located at 1919 East Grange Avenue, Milwaukee, Wisconsin. The property is located in the NW ¼ Section 34 Township 6N, Range 22 East, Milwaukee County, Wisconsin. The maintenance activities relate to the cover which addresses or occupies the areas over the Perflourinated Compounds (PFAS) contaminated soils.

2. **Description of Contamination** – Soil contaminated by PFAS is located at numerous possible release locations (PRLs) across the installation. Soil borings were done and samples taken at ranges from 0-15 feet below grade surface. Groundwater samples were taken from temporary monitoring wells from 0-15 feet below grade surface as part of the Site Inspection and found to be contaminated with PFAS. Results of samples can be found in the FY16 Phase 1 Regional Site Inspections for Perflourinated Compounds report and the samples taken by KPH Environmental in May 2023.

3. **Description of Cover to be Maintained** – Soil from construction activities will fall into two types of cover to maintained. See attached map for cover locations.

- Most Contaminated soils will be placed under an impervious surface. Impervious surface would either be asphalt pavement system consisting typically of four inches of asphalt with a twelve inch compacted gravel base or a eight inch concrete pavement with a nine inch compacted gravel base.
- Designated areas will be covered with concrete with a compacted base.
- A small percentage of Contaminated soils will be placed back in the original excavation. Pervious surface areas with contaminated soils will be covered by minimum of one foot of clean soils, top soil, and seeded per DNR requirements.

4. **Cover Purpose** – The cover over the contaminated soil serves as a barrier to prevent direct human contact with residual soil contamination that might otherwise pose a threat to human health. Additionally, the cover minimizes future soil to groundwater contamination for PFAS. Based on the current use of the property, industrial, the barrier should function as intended unless disturbed.

5. **Annual Inspection** – The cover overlying the contaminated soil and as depicted in the attached map will be inspected once a year, normally in the spring after all the snow and ice is gone, for deterioration, cracks, and other potential problems that can cause exposure to underlying soils. The inspections will be performed by the property owner(128th ANG) or their designated representative. The inspections will be performed to evaluate damage due to settling, exposure to the weather, wear from traffic, increasing age and other factors. Any area where soils have become or are likely to be come exposed will be documented. Inspections will be documented on Form 4400-305 and will include pictures showing current state each year.

6. **Maintenance Activities** – If problems are noted during the annual inspections or at any other time during the year, repairs will be scheduled as soon as practical. Repairs can include patching, filling, resurfacing, or construction operations. In the event that necessary maintenance activities expose the underlying soil, the owner

must inform maintenance workers of the direct contact exposure hazard and provide them with appropriate personal protection equipment (PPE). The owner must sample any soil that is excavated from the site prior to disposal to ascertain if contamination remains. The soil must be treated, stored, and disposed of by the owner in accordance with applicable local, state, and federal law.

In the event the cover overlying the contaminated soil is removed, or replaced, the replacement cover must be equal to cover that was removed. Any replacement barrier will be subject to the same maintenance and inspection guidelines as outlined in this Maintenance Plan unless indicated otherwise by the DNR or its successor.

The property owner, in order to maintain the integrity of the cover, will maintain a copy of this maintenance plan in the Civil Engineer Squadron, Environmental Section and make it available to all interested parties for viewing.

7. Prohibition of Activities and Notification of DNR Prior to Actions Affecting a Cover – The following activities are prohibited on any portion of the property where a cover is required as shown on the attached map, unless written approval has been obtained from the Wisconsin Department of Natural Resources; 1) removal of the existing barrier; 2) replacement with another barrier; 3) excavating or grading of the land surface; 4) filling on capped or paved areas; 5) plowing for agricultural cultivation; 6) construction or placement of a building or other structure; or 7) changing the use or occupancy of the property to residential exposure setting, such as a residence, school, day care, senior center, hospital, or similar residential exposure setting.

If removal, replacement, or other changes to a cover are considered, the property owner will contact the DNR at least 45 days before taking such action, to determine further action may be necessary to protect human health, safety, welfare, or the environment, in accordance with s. NR 727.07, Wis. Adm. Code.

8. Amendment or Withdrawal of Maintenance Plan – This maintenance plan can be amended or withdrawn by the property owner and its successors with the written approval of Wisconsin Department of Natural Resources.

9. Contact Information – Capt. Brian Schrader
414-944-8414

Site Owner and Operator– Wisconsin Air National Guard
1919 East Grange Avenue
Milwaukee, WI 53207
414-944-8414

10. If you have any additional questions, please feel free to contact me at 707-204-8584 or mike.shrum@novagrp.com at any time. Thank you in advance for your review of this plan.

APPENDICES

A. SOIL AND GROUNDWATER SAMPLE LOCATION MAP



9/11/22
DATE

N/A
DESCRIPTION

NOTES:

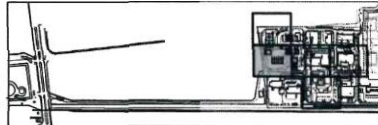
- 2. SEE SHEET CS110 FOR COORDINATE POINTS TABLE.
- 3. SEE SHEET CG102 AND CG110 FOR ADDITIONAL SITE LAYOUT AND COORDINATE INFORMATION.

LEGEND:

- ASPHALT PAVEMENT (E1 CS505)
- RIPRAP (A1 CS502, E1 CS502)
- VALLEY GUTTER (C1 CS505, A1 CS503)
- GUARD POST (E1 CS503)
- SECURITY FENCE (E1 CS503)
- TRENCH DRAIN (D1 CS508)
- CURB AND GUTTER (C7 CS504)

Soil Boring and
Monitoring Well Locations
May 5-11, 2023

- Boring Locations (Red Circle)
- Monitoring Wells (Green Circle)



KEY PLAN

U.S. ARMY CORPS OF ENGINEERS
DUMAS DISTRICT
16 CARROLL AVE. DUMAS, MO 64702

DESCR: POL FACILITIES REPL
1. HENRI MITCHELL, INC.



SHEET ID

CS102

ADVERTISE MENT - NOT FOR CONSTRUCTION

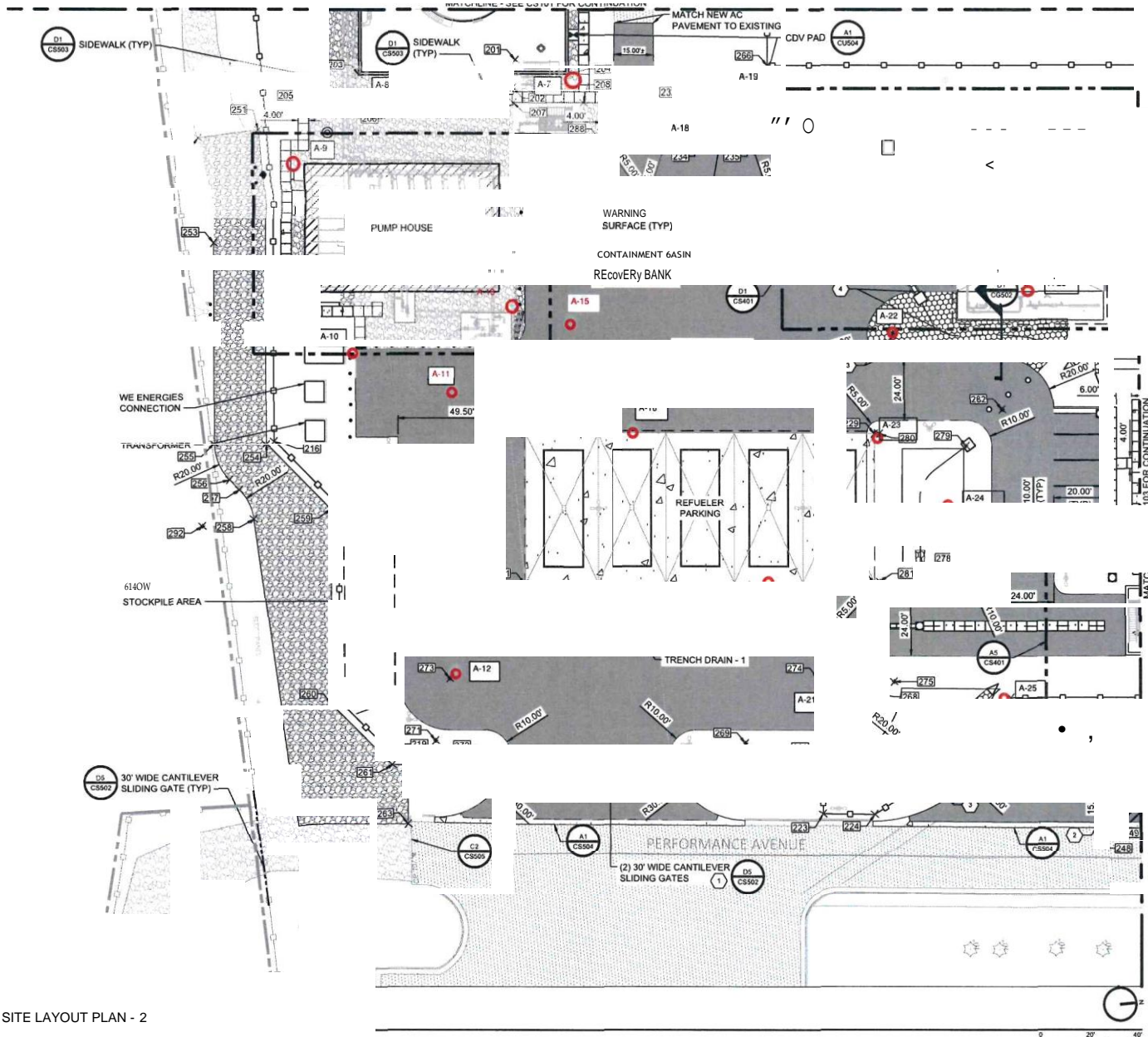
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E

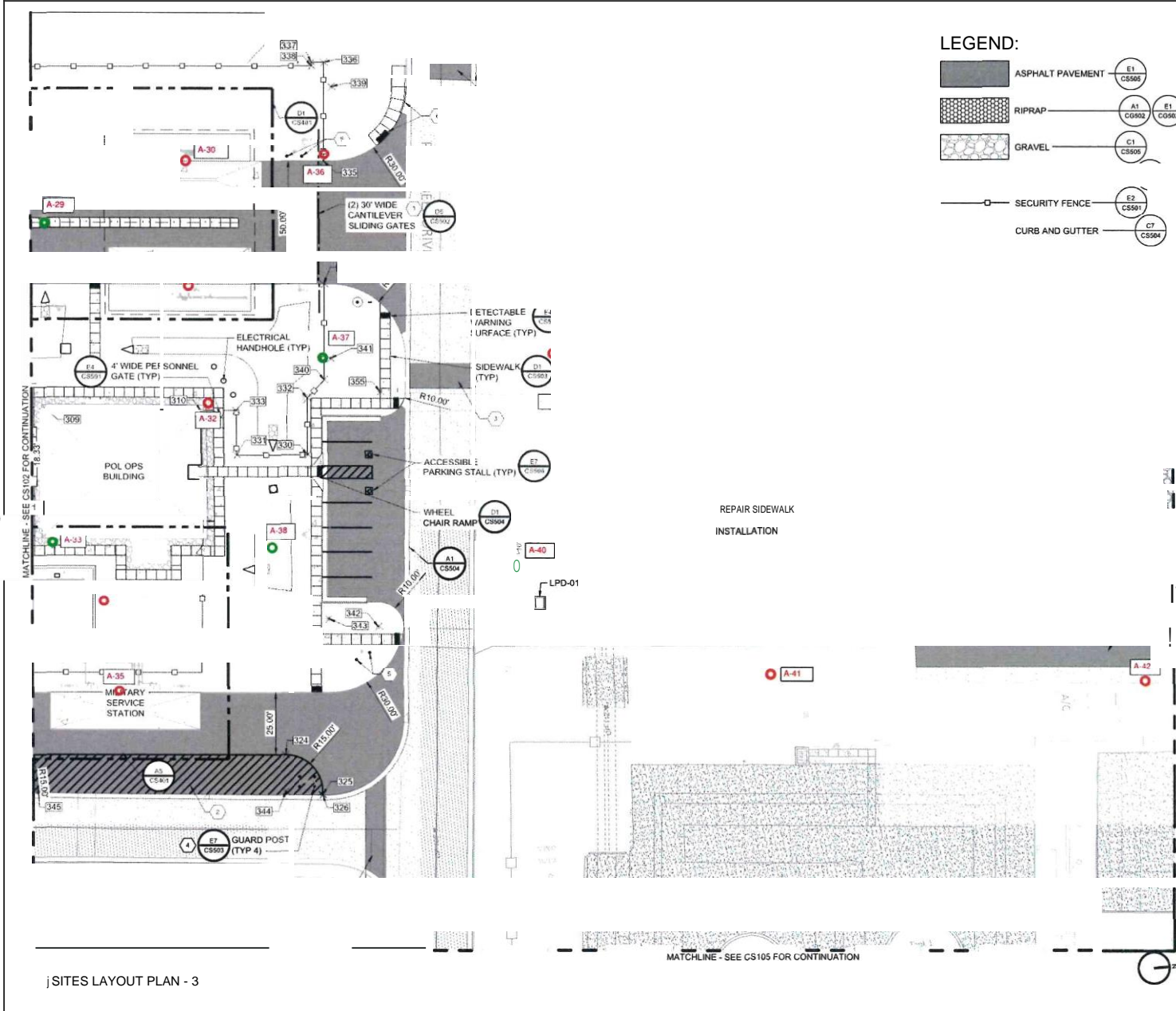
D

C

A1 SITE LAYOUT PLAN - 2



0 20' 40'



LEGEND:

- ASPHALT PAVEMENT (E1, C6506)
- RIPRAP (A1, C6502, E1, C6502)
- GRAVEL (C1, C6505)
- SECURITY FENCE (E2, C6501)
- CURB AND GUTTER (C7, C6504)

NOTES:

1. SEE SHEET CS100 FOR GENERAL SITE NOTES.
2. SEE SHEET CS100 FOR COORDINATE INFORMATION.
3. SEE SHEET CG103 AND CG110 FOR ADDITIONAL SITE LAYOUT AND COORDINATE INFORMATION.
4. SEE SHEET CS111 FOR ELECTRICAL STRUCTURE LOCATION PLAN.

Soil Boring and Monitoring Well Locations May 5-11, 2023

Boring Locations ○
Monitoring Wells ○

US Army Corps of Engineers
Omaha District

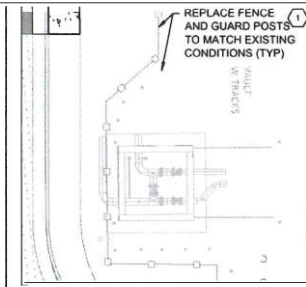
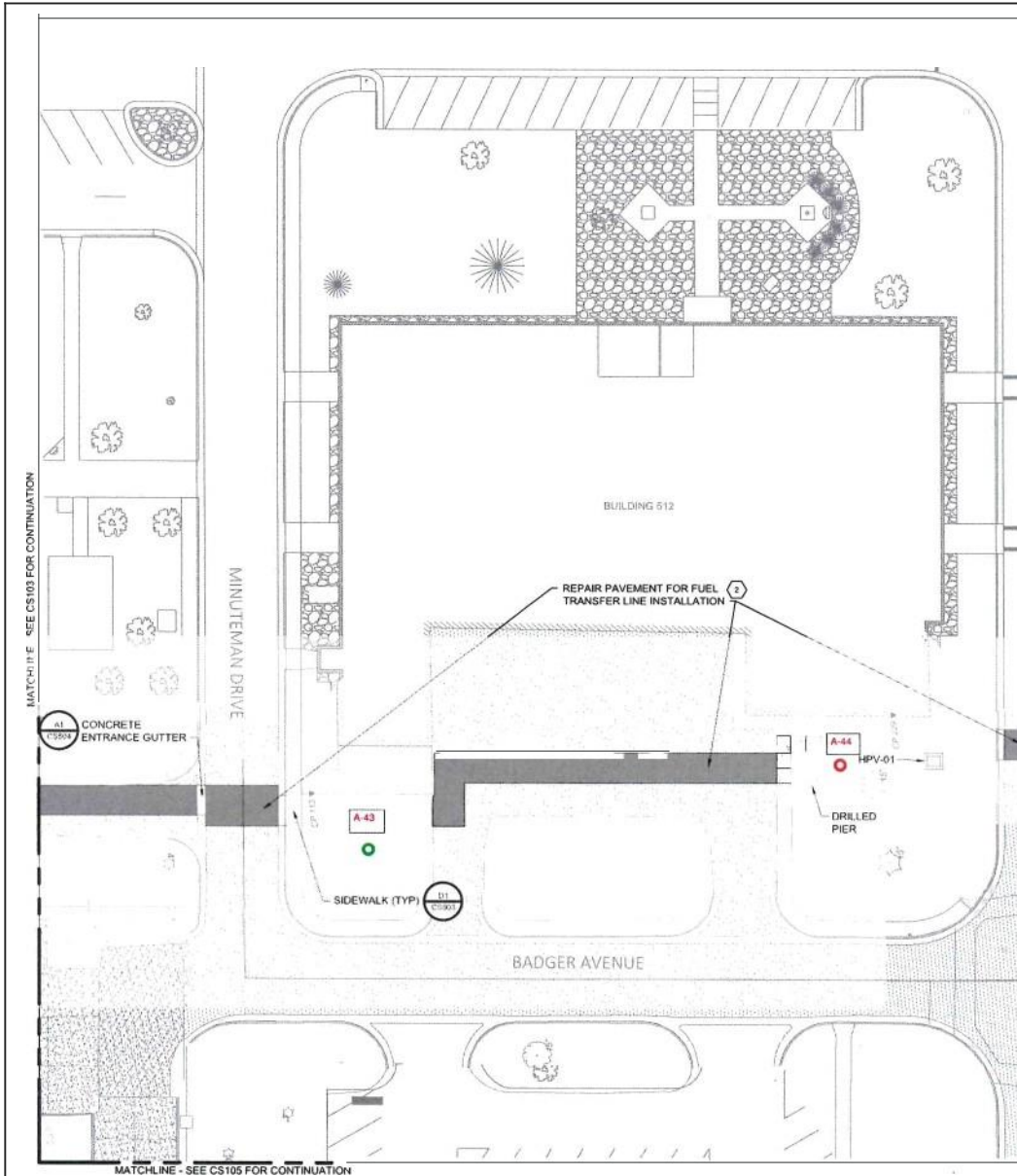
A	B	C	D	E	F	G	H	I	J

U.S. ARMY CORPS OF ENGINEERS
OMAHA DISTRICT
1876 CAPITOL AVE. OMAHA, NE 68102

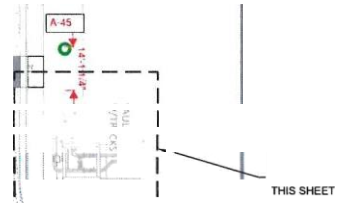
ACILITIES REPLACEMENT
MITCHELL, IA, WI

SHEET ID
CS100 CS103

SITES LAYOUT PLAN - 3



IVV #1 AREA SITE
PLAN ENLARGEMENT
SCALE: 1 - 10'



NOTES:

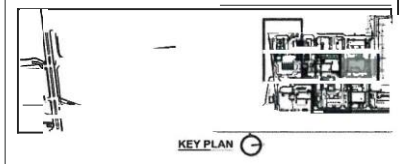
1. SEE SHEET CS100 FOR GENERAL SITE NOTES
3. SEE SHEET CG103 AND CG110 FOR ADDITIONAL SITE LAYOUT AND COORDINATE INFORMATION.

LEGEND:

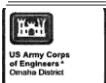
- ASPHALT PAVEMENT (E1 CS505)
- CURB AND GUTTER (C7 CS504)

Soil Boring and
Monitoring Well Locations
May 5-11, 2023

- Boring Locations ○
- Monitoring Wells ○



SITE LAYOUT PLAN - 4



DATE	BY	CHK	APP

DESIGN FOR FACILITIES REPAIR
GENERAL MITCHELL AFB, WI



SHEET ID

CS104

B. SOIL SAMPLE LABORATORY REPORTS

PFA Soil Sample Results

Compound	A-43 15-20	A-44 0-5	A-44 5-10	A-44 10-15	A-45 0-5	A-45 5-10	A-45 15-20
	Results (ng/g)	Results (ng/g)	Results (ng/g)	Results (ng/g)	Results (ng/g)	Results (ng/g)	Results (ng/g)
Perfluorobutanoic Acid (PFBA)	ND	ND	ND	ND	ND	ND	ND
Perfluoropentanoic Acid (PFPeA)	ND	ND	ND	ND	0.572	ND	ND
Perfluorobutanesulfonic Acid (PFBS)	ND	ND	ND	ND	ND	ND	ND
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	ND	ND	ND	ND	ND	ND
Perfluorohexanoic Acid (PFHxA)	ND	0.262	ND	ND	0.882	ND	ND
Perfluoropentanesulfonic Acid (PFPeS)	ND	ND	ND	ND	ND	ND	ND
Perfluoroheptanoic Acid (PFHpA)	ND	ND	ND	ND	0.35	ND	ND
Perfluorohexanesulfonic Acid (PFHxS)	ND	0.802	0.303	ND	2.61	1.35	0.67
Perfluorooctanoic Acid (PFOA)	ND	0.294	ND	ND	0.874	ND	ND
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	ND	ND	ND	ND	ND	ND
Perfluoroheptanesulfonic Acid (PFHpS)	ND	ND	ND	ND	ND	ND	ND
Perfluorononanoic Acid (PFNA)	ND	ND	ND	ND	ND	ND	ND
Perfluorodecanesulfonic Acid (PFOS)	ND	3.37	1.1	ND	13.3	7.22	ND
Perfluorodecanoic Acid (PFDA)	ND	ND	ND	ND	0.199	ND	ND
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	ND	ND	ND	ND	ND	ND
Perfluorononanesulfonic Acid (PFNS)	ND	ND	ND	ND	ND	ND	ND
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	ND	ND	ND	ND	ND	ND
Perfluoroundecanoic Acid (PFUnA)	ND	ND	ND	ND	ND	ND	ND
Perfluorodecanesulfonic Acid (PFDS)	ND	ND	ND	ND	ND	ND	ND
Perfluorooctanesulfonamide (PFOSA)	ND	ND	ND	ND	ND	ND	ND
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	ND	ND	ND	ND	ND	ND
Perfluorododecanoic Acid (PFDoA)	ND	ND	ND	ND	ND	ND	ND
Perfluorotridecanoic Acid (PFTrDA)	ND	ND	ND	ND	ND	ND	ND
Perfluorotetradecanoic Acid (PFTeDA)	ND	ND	ND	ND	ND	ND	ND
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	ND	ND	ND	ND	ND	ND
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	ND	ND	ND	ND	ND	ND
Perfluorododecanesulfonic Acid (PFDoS)	ND	ND	ND	ND	ND	ND	ND
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND	ND	ND	ND	ND	ND	ND
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND	ND	ND	ND	ND	ND	ND
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND	ND	ND	ND	ND	ND	ND
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND	ND	ND	ND	ND	ND	ND
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND	ND	ND	ND	ND	ND	ND
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND	ND	ND	ND	ND	ND	ND
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND	ND	ND	ND	ND	ND	ND
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND	ND	ND	ND	ND	ND	ND
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEEESA)	ND	ND	ND	ND	ND	ND	ND
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND	ND	ND	ND	ND	ND	ND
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND	ND	ND	ND	ND	ND	ND
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND	ND	ND	ND	ND	ND	ND
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND	ND	ND	ND	ND	ND	ND

C. GROUNDWATER SAMPLE LABORATORY REPORTS

E. HEALTH AND SAFETY PLAN

Milwaukee 128th Air National Guard
 Metals Groundwater Sample Results
 May 2023

	Well A-2	Well A-18	Well A-29	Well A-33	Well A-37	Well A-38	Well A-40	Well A-43	Well A-45	NR140 PAL	NR 140 ES
	Results (mg/L)	Results (mg/L)	Results (mg/L)	Results (mg/L)	Results (mg/L)	Results (mg/L)	Results (mg/L)	Results (mg/L)	Results (mg/L)	(mg/L)	(mg/L)
Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Arsenic	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	0.01
Beryllium	<u>0.00525</u>	<u>0.00188</u>	ND	ND	ND	ND	ND	<u>0.00158</u>	<u>0.00163</u>	0.0004	0.004
Cadmium	<u>0.00458</u>	<u>0.00299</u>	ND	ND	ND	<u>0.00181</u>	<u>0.004</u>	<u>0.00242</u>	0.00879	0.0005	0.005
Chromium	<u>0.0628</u>	<u>0.0226</u>	0.0204	0.0201	0.012	<u>0.0201</u>	<u>0.0256</u>	<u>0.0388</u>	<u>0.0268</u>	0.01	0.1
Copper	0.0578	0.0417	0.065	0.0706	0.0415	0.0677	<u>0.159</u>	0.0479	0.0843	0.13	1.3
Lead	0.158	0.0602	0.0435	0.0374	0.032	0.0436	0.095	0.0529	0.0592	0.0015	0.015
Nickel	0.191	<u>0.0708</u>	<u>0.0428</u>	<u>0.063</u>	<u>0.0204</u>	<u>0.0362</u>	<u>0.057</u>	<u>0.0443</u>	0.107	0.02	0.1
Selenium	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.01	0.05
Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.01	0.05
Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0004	0.002
Zinc	0.482	0.269	0.202	0.214	0.143	0.255	0.505	0.239	0.908	2.5	5.0

ND = Not Detected

NS = No Standard

Bold = Exceeds Enforcement Standard

Underline = Exceeds Preventative Action Limit

Milwaukee 128th Air National Guard
Volatile Organic Compound (VOC) Groundwater Sample Results
May 2023

	Well A-2 Results (mg/L)	Well A-18 Results (mg/L)	Well A-29 Results (mg/L)	Well A-33 Results (mg/L)	Well A-37 Results (mg/L)	Well A-38 Results (mg/L)	Well A-40 Results (mg/L)	Well A-43 Results (mg/L)	Well A-45 Results (mg/L)	NR140 PAL (mg/L)	NR 140 ES (mg/L)
Acetone	ND	0.111	ND	ND	ND	ND	ND	ND	ND	1.8	9.0
Acrolein	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0005	0.005
Bromobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00006	0.0006
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00044	0.0044
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	0.01
n-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
sec-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
tert-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0005	0.005
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Chlorodibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.7	7.0
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.08	0.4
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0006	0.006
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	0.03
2-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
4-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
1,2-Dibromo-3-Chloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
1,2-Dibromoethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Dibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.06	0.6
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.12	0.6
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.015	0.075
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.2	1.0

**Milwaukee 128th Air National Guard
Volatile Organic Compound (VOC) Groundwater Sample Results
May 2023**

	Well A-2 Results (mg/L)	Well A-18 Results (mg/L)	Well A-29 Results (mg/L)	Well A-33 Results (mg/L)	Well A-37 Results (mg/L)	Well A-38 Results (mg/L)	Well A-40 Results (mg/L)	Well A-43 Results (mg/L)	Well A-45 Results (mg/L)	NR140 PAL (mg/L)	NR 140 ES (mg/L)
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.085	0.85
1,2-Dichloroethane	0.000756	ND	ND	ND	ND	ND	ND	ND	ND	0.0005	0.005
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0007	0.007
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.007	0.07
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.02	0.1
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0005	0.005
1,1-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
1,3-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00004	0.0004
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00004	0.0004
2,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Di-isopropyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.14	0.7
Hexachloro-1,3-butadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Isopropylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
p-Isopropyltoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
2-Butanone (MEK)	ND	0.0122	ND	0.00473	ND	ND	ND	0.0040	ND	0.8	4.0
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0005	0.005
4-Methyl-2-pentanone (MIBK)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.05	0.5
Methyl tert-butyl ether	0.000970	ND	ND	ND	ND	ND	ND	ND	ND	0.012	0.06
Naphthalene	ND	ND	ND	0.00739	ND	ND	ND	ND	ND	0.01	0.1
n-Propylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	0.01
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.007	0.07
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00002	0.0002
1,1,2-Trichlorotrifluoroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0005	0.005
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.016	0.8

**Milwaukee 128th Air National Guard
Volatile Organic Compound (VOC) Groundwater Sample Results
May 2023**

	Well A-2 Results (mg/L)	Well A-18 Results (mg/L)	Well A-29 Results (mg/L)	Well A-33 Results (mg/L)	Well A-37 Results (mg/L)	Well A-38 Results (mg/L)	Well A-40 Results (mg/L)	Well A-43 Results (mg/L)	Well A-45 Results (mg/L)	NR140 PAL (mg/L)	NR 140 ES (mg/L)
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.014	0.07
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.04	0.2
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0005	0.005
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0005	0.005
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.012	0.06
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.096	0.48
1,2,3-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.096	0.48
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.096	0.48
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00002	0.0002
Xylenes	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.4	2.0

ND = Not Detected

NS = No Standard

Bold = Exceeds Enforcement Standard

Underline = Exceeds Preventative Action Limit

Milwaukee 128th Air National Guard
 Semivolatile Organic Compound (SVOC) Groundwater Sample Results
 May 2023

	Well A-2	Well A-18	Well A-29	Well A-33	Well A-37	Well A-38	Well A-40	Well A-43	Well A-45	NR140 PAL	NR 140 ES
	Results (mg/L)	Results (mg/L)	Results (mg/L)	Results (mg/L)	Results (mg/L)	Results (mg/L)	Results (mg/L)	Results (mg/L)	Results (mg/L)	(mg/L)	(mg/L)
2,4-Dinitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
2-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
4-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Pentachlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Phenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.4	2.0
2,4,6-Trichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS

ND = Not Detected

NS = No Standard

Bold = Exceeds Enforcement Standard

Underline = Exceeds Preventative Action Limit

**Milwaukee 128th Air National Guard
PFA Groundwater Sample Results
May 2023**

	Well A-2	Well A-18	Well A-29	Well A-33	Well A-37	Well A-38	Well A-40	Well A-43	Well A-45	Proposed PAL	Proposed ES
Compound	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	Results (ng/L)	(ng/L)	(ng/L)
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND	7.5	ND	ND	ND	ND	ND	ND	ND	NS	NS
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS

ND = Not Detected

NS = No Standard

Bold = Exceeds Proposed Enforcement Standard (From Summary and Scientific Support Documents for Cycle 11 Recommended Groundwater Standards, November 2020)

Underline = Exceeds Proposed Preventative Action Limit (From Summary and Scientific Support Documents for Cycle 11 Recommended Groundwater Standards, November 2020)

ng/L= nanograms per liter – equivalent to parts per trillion

* Wisconsin Department of Health Services recommends a combined standard for NtEtFOSE, NtEtFOSA, NtEtFOSAA, FOSA, PFOS and PFOA: combined PAL of 2 ng/L and a combined ES of 20 ng/L

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name 128th Air National Guard		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W.		Well Name A-2	
Facility License, Permit or Monitoring No.		Local Grid Origin (estimated:) or Well Location Lat. " Long. "		Wis. Unique Well No. DNR Well ID No.	
Facility ID 241496970		St. Plane ft. N. ft. E. S/C/N		Date Well Installed m m / d d / y y y y	
Type of Well Temporary Well Code /		Section Location of Waste/Source NW 1/4 of NW 1/4 of Sec. 34, T. 6 N, R. 22 <input checked="" type="checkbox"/> E <input type="checkbox"/> W		Well Installed By: Name (first, last) and Firm Matt Baake	
Distance from Waste/Source ft. <input type="checkbox"/> Enf. Stds. Apply <input type="checkbox"/>		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input checked="" type="checkbox"/> Not Known		Gov. Lot Number	
				Baake Field Services	

A. Protective pipe, top elevation	ft. MSL	1. Cap and lock?	No Lock <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
B. Well casing, top elevation	ft. MSL	2. Protective cover pipe:	
C. Land surface elevation	ft. MSL	a. Inside diameter:	in.
D. Surface seal, bottom	ft. MSL or 1.0 ft.	b. Length:	ft.
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input checked="" type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input checked="" type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>		c. Material:	Steel <input type="checkbox"/> 0 4 Schedule 40 PVC <input checked="" type="checkbox"/> Other <input type="checkbox"/>
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		d. Additional protection?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe:
14. Drilling method used: Rotary <input type="checkbox"/> 5 0 Direct Push <input type="checkbox"/> Hollow Stem Auger <input type="checkbox"/> 4 1 Other <input checked="" type="checkbox"/>		3. Surface seal:	Bentonite <input checked="" type="checkbox"/> 3 0 Concrete <input type="checkbox"/> 0 1 Other <input type="checkbox"/>
15. Drilling fluid used: Water <input type="checkbox"/> 0 2 Air <input type="checkbox"/> 0 1 Drilling Mud <input type="checkbox"/> 0 3 None <input checked="" type="checkbox"/> 9 9		4. Material between well casing and protective pipe:	Bentonite <input type="checkbox"/> 3 0 Other <input type="checkbox"/>
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe		5. Annular space seal:	a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 3 3 b. Lbs/gal mud weight... Bentonite-sand slurry <input type="checkbox"/> 3 5 c. Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 3 1 d. % Bentonite... Bentonite-cement grout <input type="checkbox"/> 5 0 e. Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 0 1 Tremie pumped <input type="checkbox"/> 0 2 Gravity <input checked="" type="checkbox"/> 0 8
17. Source of water (attach analysis, if required):		6. Bentonite seal:	a. Bentonite granules <input checked="" type="checkbox"/> 3 3 b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input type="checkbox"/> 3 2 c. Other <input type="checkbox"/>
E. Bentonite seal, top	ft. MSL or ft.	7. Fine sand material: Manufacturer, product name & mesh size	
F. Fine sand, top	ft. MSL or ft.	a.	
G. Filter pack, top	ft. MSL or 2.5 ft.	b. Volume added ft ³	
H. Screen joint, top	ft. MSL or 4.5 ft.	8. Filter pack material: Manufacturer, product name & mesh size	
I. Well bottom	ft. MSL or 14.5 ft.	a. Tech Mix, 20/40 Filter Sand	
J. Filter pack, bottom	ft. MSL or 1.5 ft.	b. Volume added 1.2 ft ³	
K. Borehole, bottom	ft. MSL or 1.5 ft.	9. Well casing:	Flush threaded PVC schedule 40 <input type="checkbox"/> 2 3 Flush threaded PVC schedule 80 <input type="checkbox"/> 2 4 Other <input type="checkbox"/>
L. Borehole, diameter	2.5 in.	10. Screen material: Schedule 40 PVC	
M. O.D. well casing	1.25 in.	a. Screen type:	Factory cut <input checked="" type="checkbox"/> 1 1 Continuous slot <input type="checkbox"/> 0 1 Other <input type="checkbox"/>
N. I.D. well casing	1.0 in.	b. Manufacturer Johnson Screen	
		c. Slot size:	0.001 in.
		d. Slotted length:	10.0 ft.
		11. Backfill material (below filter pack):	None <input checked="" type="checkbox"/> 1 4 Other <input type="checkbox"/>

I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature *[Signature]* Firm KPH Environmental Corp.

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name 128th Air National Guard		Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.		Well Name A-13	
Facility License, Permit or Monitoring No.		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/>		Wis. Unique Well No. _____ DNR Well ID No. _____	
Facility ID 241496970		St. Plane _____ ft. N. _____ ft. E. S/C/N		Date Well Installed ____/____/____	
Type of Well Temporary Well Code _____/_____		Section Location of Waste/Source NW 1/4 of NW 1/4 of Sec. 34, T. 6 N, R. 22 <input checked="" type="checkbox"/> E <input type="checkbox"/> W		Well Installed By: Name (first, last) and Firm Matt Baake	
Distance from Waste/Source _____ ft.		Enf. Stds. Apply <input type="checkbox"/>		Gov. Lot Number _____	
		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input checked="" type="checkbox"/> Not Known		Baake Field Services	

A. Protective pipe, top elevation _____ ft. MSL	1. Cap and lock? No Lock <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ in.
C. Land surface elevation _____ ft. MSL	b. Length: _____ ft.
D. Surface seal, bottom _____ ft. MSL or 1.0 ft.	c. Material: Steel <input type="checkbox"/> 0 4 Schedule 40 PVC Other <input checked="" type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input checked="" type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3. Surface seal: Bentonite <input checked="" type="checkbox"/> 3 0 Concrete <input type="checkbox"/> 0 1 Other <input type="checkbox"/>
14. Drilling method used: Rotary <input type="checkbox"/> 5 0 Direct Push Hollow Stem Auger <input type="checkbox"/> 4 1 Other <input checked="" type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 3 0 Other <input type="checkbox"/>
15. Drilling fluid used: Water <input type="checkbox"/> 0 2 Air <input type="checkbox"/> 0 1 Drilling Mud <input type="checkbox"/> 0 3 None <input checked="" type="checkbox"/> 9 9	5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 3 3 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 3 5 c. _____ Lbs/gal mud weight Bentonite slurry <input type="checkbox"/> 3 1 d. _____ % Bentonite Bentonite-cement grout <input type="checkbox"/> 5 0 e. _____ Ft ³ volume added for any of the above
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	f. How installed: Tremie <input type="checkbox"/> 0 1 Tremie pumped <input type="checkbox"/> 0 2 Gravity <input checked="" type="checkbox"/> 0 8
17. Source of water (attach analysis, if required): _____	6. Bentonite seal: a. Bentonite granules <input checked="" type="checkbox"/> 3 3 b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input type="checkbox"/> 3 2 c. _____ Other <input type="checkbox"/>
E. Bentonite seal, top _____ ft. MSL or _____ ft.	7. Fine sand material: Manufacturer, product name & mesh size a. _____ b. Volume added _____ ft ³
F. Fine sand, top _____ ft. MSL or _____ ft.	8. Filter pack material: Manufacturer, product name & mesh size a. Tech Mix, 20/40 Filter Sand b. Volume added 1.2 ft ³
G. Filter pack, top _____ ft. MSL or 2.5 ft.	9. Well casing: Flush threaded PVC schedule 40 <input type="checkbox"/> 2 3 Flush threaded PVC schedule 80 <input type="checkbox"/> 2 4 Other <input type="checkbox"/>
H. Screen joint, top _____ ft. MSL or 4.5 ft.	10. Screen material: Schedule 40 PVC a. Screen type: Factory cut <input checked="" type="checkbox"/> 1 1 Continuous slot <input type="checkbox"/> 0 1 Other <input type="checkbox"/>
I. Well bottom _____ ft. MSL or 14.5 ft.	b. Manufacturer Johnson Screen c. Slot size: 0.001 in. d. Slotted length: 10.0 ft.
J. Filter pack, bottom _____ ft. MSL or 15 ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 1 4 Other <input type="checkbox"/>
K. Borehole, bottom _____ ft. MSL or 15 ft.	
L. Borehole, diameter 2.5 in.	
M. O.D. well casing 1.25 in.	
N. I.D. well casing 1.0 in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature [Signature] Firm KPH Environmental Corp.

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name 128th Air National Guard		Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.		Well Name	
Facility License, Permit or Monitoring No.		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/>		Wis. Unique Well No. _____ DNR Well ID No. _____	
Facility ID 241496970		St. Plane _____ ft. N. _____ ft. E. S/C/N		Date Well Installed ____/____/____	
Type of Well Temporary Well Code _____/_____		Section Location of Waste/Source NW 1/4 of NW 1/4 of Sec. 34, T. 6 N, R. 22 <input checked="" type="checkbox"/> E <input type="checkbox"/> W		Well Installed By: Name (first, last) and Firm Matt Baake	
Distance from Waste/Source _____ ft.		Enf. Stds. Apply <input type="checkbox"/>		Gov. Lot Number _____	
		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input checked="" type="checkbox"/> Not Known		Baake Field Services	

A. Protective pipe, top elevation _____ ft. MSL

B. Well casing, top elevation _____ ft. MSL

C. Land surface elevation _____ ft. MSL

D. Surface seal, bottom _____ ft. MSL or 1.0 ft.

12. USCS classification of soil near screen:
GP GM GC GW SW SP
SM SC ML MH CL CH
Bedrock

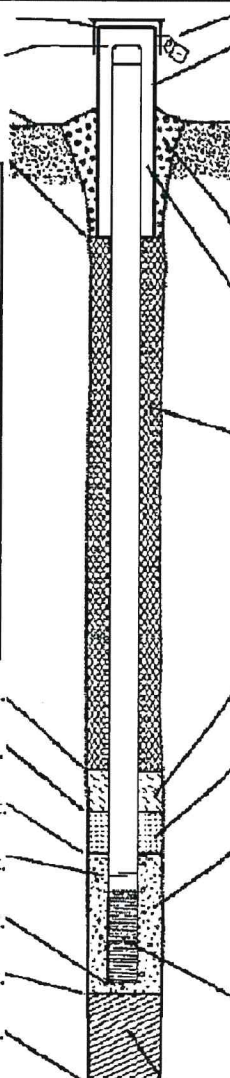
13. Sieve analysis performed? Yes No

14. Drilling method used: Rotary 5 0
Direct Push Hollow Stem Auger 4 1
Other

15. Drilling fluid used: Water 0 2 Air 0 1
Drilling Mud 0 3 None 9 9

16. Drilling additives used? Yes No
Describe _____

17. Source of water (attach analysis, if required):



1. Cap and lock? No Lock Yes No

2. Protective cover pipe:
a. Inside diameter: _____ in.
b. Length: _____ ft.
c. Material: Steel 0 4
Schedule 40 PVC Other

d. Additional protection? Yes No
If yes, describe: _____

3. Surface seal: Bentonite 3 0
Concrete 0 1
Other

4. Material between well casing and protective pipe:
Bentonite 3 0
Other

5. Annular space seal: a. Granular/Chipped Bentonite 3 3
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry 3 5
c. _____ Lbs/gal mud weight Bentonite slurry 3 1
d. _____ % Bentonite Bentonite-cement grout 5 0
e. _____ Ft³ volume added for any of the above
f. How installed: Tremie 0 1
Tremie pumped 0 2
Gravity 0 8

6. Bentonite seal: a. Bentonite granules 3 3
b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 3 2
c. _____ Other

7. Fine sand material: Manufacturer, product name & mesh size
a. _____
b. Volume added _____ ft³

8. Filter pack material: Manufacturer, product name & mesh size
a. Tech Mix, 20/40 Filter Sand
b. Volume added 1.2 ft³

9. Well casing: Flush threaded PVC schedule 40 2 3
Flush threaded PVC schedule 80 2 4
Other

10. Screen material: Schedule 40 PVC
a. Screen type: Factory cut 1 1
Continuous slot 0 1
Other

b. Manufacturer Johnson Screen
c. Slot size: 0.001 in.
d. Slotted length: 10.0 ft.

11. Backfill material (below filter pack): None 1 4
Other

E. Bentonite seal, top _____ ft. MSL or _____ ft.

F. Fine sand, top _____ ft. MSL or _____ ft.

G. Filter pack, top _____ ft. MSL or 2.5 ft.

H. Screen joint, top _____ ft. MSL or 9.5 ft.

I. Well bottom _____ ft. MSL or 19.5 ft.

J. Filter pack, bottom _____ ft. MSL or 25 ft.

K. Borehole, bottom _____ ft. MSL or 20 ft.

L. Borehole, diameter 2.5 in.

M. O.D. well casing 1.25 in.

N. I.D. well casing 1.0 in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm KPH Environmental Corp.

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name 128th Air National Guard		Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.		Well Name A-33	
Facility License, Permit or Monitoring No.		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/>		Wis. Unique Well No. _____ DNR Well ID No. _____	
Facility ID 241496970		St. Plane _____ ft. N. _____ ft. E. S/C/N		Date Well Installed ____/____/____	
Type of Well Temporary Well Code _____		Section Location of Waste/Source NW 1/4 of NW 1/4 of Sec. 34, T. 6 N, R. 22 <input checked="" type="checkbox"/> E <input type="checkbox"/> W		Well Installed By: Name (first, last) and Firm Matt Baake	
Distance from Waste/ Source _____ ft.		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidogradient d <input type="checkbox"/> Downgradient n <input checked="" type="checkbox"/> Not Known		Gov. Lot Number _____	
Enf. Stds. Apply <input type="checkbox"/>				Baake Field Services	

A. Protective pipe, top elevation _____ ft. MSL	1. Cap and lock? No Lock <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe:
C. Land surface elevation _____ ft. MSL	a. Inside diameter: _____ in.
D. Surface seal, bottom _____ ft. MSL or 1.0 ft.	b. Length: _____ ft.
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input checked="" type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input checked="" type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>	c. Material: Steel <input type="checkbox"/> 04 Schedule 40 PVC <input checked="" type="checkbox"/> Other <input type="checkbox"/>
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
14. Drilling method used: Rotary <input type="checkbox"/> 50 Direct Push <input type="checkbox"/> Hollow Stem Auger <input type="checkbox"/> 41 Other <input checked="" type="checkbox"/>	3. Surface seal: Bentonite <input checked="" type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input type="checkbox"/>
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Other <input type="checkbox"/>
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremic pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
17. Source of water (attach analysis, if required): _____	6. Bentonite seal: a. Bentonite granules <input checked="" type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
E. Bentonite seal, top _____ ft. MSL or _____ ft.	7. Fine sand material: Manufacturer, product name & mesh size a. _____ b. Volume added _____ ft ³
F. Fine sand, top _____ ft. MSL or _____ ft.	8. Filter pack material: Manufacturer, product name & mesh size a. Tech Mix, 20/40 Filter Sand b. Volume added 1.2 ft ³
G. Filter pack, top _____ ft. MSL or 2.5 ft.	9. Well casing: Flush threaded PVC schedule 40 <input type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
H. Screen joint, top _____ ft. MSL or 4.5 ft.	10. Screen material: Schedule 40 PVC a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
I. Well bottom _____ ft. MSL or 14.5 ft.	b. Manufacturer Johnson Screen c. Slot size: 0.001 in. d. Slotted length: 10.0 ft.
J. Filter pack, bottom _____ ft. MSL or 15 ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>
K. Borehole, bottom _____ ft. MSL or 15 ft.	
L. Borehole, diameter 2.5 in.	
M. O.D. well casing 1.25 in.	
N. I.D. well casing 1.0 in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [Signature] Firm KPH Environmental Corp.

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Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name 128th Air National Guard		Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.		Well Name A-37	
Facility License, Permit or Monitoring No.		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/>		Wis. Unique Well No. _____ DNR Well ID No. _____	
Facility ID 241496970		St. Plane _____ ft. N. _____ ft. E. S/C/N		Date Well Installed ____/____/____	
Type of Well Temporary Well Code _____/_____		Section Location of Waste/Source NW 1/4 of NW 1/4 of Sec. 34, T. 6 N, R. 22 <input checked="" type="checkbox"/> E <input type="checkbox"/> W		Well Installed By: Name (first, last) and Firm Matt Baake	
Distance from Waste/Source _____ ft.		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidogradient d <input type="checkbox"/> Downgradient n <input checked="" type="checkbox"/> Not Known		Gov. Lot Number _____	
Enf. Stds. Apply <input type="checkbox"/>				Baake Field Services	

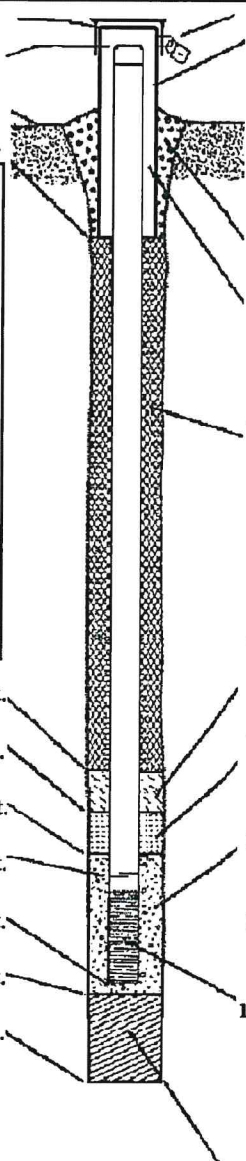
A. Protective pipe, top elevation _____ ft. MSL	1. Cap and lock? No Lock <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ in. b. Length: _____ ft. c. Material: Steel <input type="checkbox"/> 04 Schedule 40 PVC <input checked="" type="checkbox"/> Other <input type="checkbox"/>
C. Land surface elevation _____ ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom _____ ft. MSL or 1.0 ft.	3. Surface seal: Bentonite <input checked="" type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input checked="" type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input checked="" type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>	
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
14. Drilling method used: Rotary <input type="checkbox"/> 50 Direct Push <input type="checkbox"/> Hollow Stem Auger <input type="checkbox"/> 41 Other <input checked="" type="checkbox"/>	
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99	
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	
17. Source of water (attach analysis, if required): _____	
E. Bentonite seal, top _____ ft. MSL or _____ ft.	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Other <input type="checkbox"/>
F. Fine sand, top _____ ft. MSL or _____ ft.	5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
G. Filter pack, top _____ ft. MSL or 7.5 ft.	6. Bentonite seal: a. Bentonite granules <input checked="" type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
H. Screen joint, top _____ ft. MSL or 9.5 ft.	7. Fine sand material: Manufacturer, product name & mesh size a. _____ b. Volume added _____ ft ³
I. Well bottom _____ ft. MSL or 14.5 ft.	8. Filter pack material: Manufacturer, product name & mesh size a. Tech Mix, 20/40 Filter Sand b. Volume added 1.2 ft ³
J. Filter pack, bottom _____ ft. MSL or 20 ft.	9. Well casing: Flush threaded PVC schedule 40 <input type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
K. Borehole, bottom _____ ft. MSL or 20 ft.	10. Screen material: Schedule 40 PVC a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
L. Borehole, diameter 2.5 in.	b. Manufacturer Johnson Screen c. Slot size: 0.001 in. d. Slotted length: 10.0 ft.
M. O.D. well casing 1.25 in.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>
N. I.D. well casing 1.0 in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature [Signature] Firm KPH Environmental Corp.

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name 128th Air National Guard		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. ft. <input type="checkbox"/> S. <input type="checkbox"/> W.		Well Name A-38	
Facility License, Permit or Monitoring No.		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/>		Wis. Unique Well No. DNR Well ID No.	
Facility ID 241496970		St. Plane _____ ft. N. _____ ft. E. S/C/N		Date Well Installed ____/____/____	
Type of Well Temporary Well Code _____/_____		Section Location of Waste/Source NW 1/4 of NW 1/4 of Sec. 34, T. 6 N, R. 22 <input checked="" type="checkbox"/> E <input type="checkbox"/> W		Well Installed By: Name (first, last) and Firm Matt Baake	
Distance from Waste/Source _____ ft.		Enf. Stds. Apply <input type="checkbox"/>		Baake Field Services	
		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input checked="" type="checkbox"/> Not Known		Gov. Lot Number _____	

<p>A. Protective pipe, top elevation _____ ft. MSL</p> <p>B. Well casing, top elevation _____ ft. MSL</p> <p>C. Land surface elevation _____ ft. MSL</p> <p>D. Surface seal, bottom _____ ft. MSL or 1.0 ft.</p> <div style="border: 1px solid black; padding: 5px;"> <p>12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input checked="" type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/></p> <p>13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input type="checkbox"/> 5 0 Hollow Stem Auger <input type="checkbox"/> 4 1 Direct Push _____ Other <input checked="" type="checkbox"/></p> <p>15. Drilling fluid used: Water <input type="checkbox"/> 0 2 Air <input type="checkbox"/> 0 1 Drilling Mud <input type="checkbox"/> 0 3 None <input checked="" type="checkbox"/> 9 9</p> <p>16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____</p> <p>17. Source of water (attach analysis, if required): _____</p> </div> <p>E. Bentonite seal, top _____ ft. MSL or _____ ft.</p> <p>F. Fine sand, top _____ ft. MSL or _____ ft.</p> <p>G. Filter pack, top _____ ft. MSL or 2.5 ft.</p> <p>H. Screen joint, top _____ ft. MSL or 4.5 ft.</p> <p>I. Well bottom _____ ft. MSL or 14.5 ft.</p> <p>J. Filter pack, bottom _____ ft. MSL or 15 ft.</p> <p>K. Borehole, bottom _____ ft. MSL or 15 ft.</p> <p>L. Borehole, diameter 2.5 in.</p> <p>M. O.D. well casing 1.25 in.</p> <p>N. I.D. well casing 1.0 in.</p>	 <p>1. Cap and lock? No Lock <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>2. Protective cover pipe: a. Inside diameter: _____ in. b. Length: _____ ft. c. Material: Steel <input type="checkbox"/> 0 4 Schedule 40 PVC Other <input checked="" type="checkbox"/></p> <p>d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____</p> <p>3. Surface seal: Bentonite <input checked="" type="checkbox"/> 3 0 Concrete <input type="checkbox"/> 0 1 Other <input type="checkbox"/></p> <p>4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 3 0 Other <input type="checkbox"/></p> <p>5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 3 3 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 3 5 c. _____ Lbs/gal mud weight Bentonite slurry <input type="checkbox"/> 3 1 d. _____ % Bentonite Bentonite-cement grout <input type="checkbox"/> 5 0 e. _____ Ft³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 0 1 Tremie pumped <input type="checkbox"/> 0 2 Gravity <input checked="" type="checkbox"/> 0 8</p> <p>6. Bentonite seal: a. Bentonite granules <input checked="" type="checkbox"/> 3 3 b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input type="checkbox"/> 3 2 c. _____ Other <input type="checkbox"/></p> <p>7. Fine sand material: Manufacturer, product name & mesh size a. _____ b. Volume added _____ ft³</p> <p>8. Filter pack material: Manufacturer, product name & mesh size a. Tech Mix, 20/40 Filter Sand b. Volume added 1.2 ft³</p> <p>9. Well casing: Flush threaded PVC schedule 40 <input type="checkbox"/> 2 3 Flush threaded PVC schedule 80 <input type="checkbox"/> 2 4 Other <input type="checkbox"/></p> <p>10. Screen material: Schedule 40 PVC a. Screen type: Factory cut <input checked="" type="checkbox"/> 1 1 Continuous slot <input type="checkbox"/> 0 1 Other <input type="checkbox"/> b. Manufacturer Johnson Screen c. Slot size: 0.01 in. d. Slotted length: 10.0 ft.</p> <p>11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 1 4 Other <input type="checkbox"/></p>
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I hereby certify that the information on this form is true and correct to the best of my knowledge.


Signature [Signature] Firm KPH Environmental Corp.

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Facility/Project Name 128th Air National Guard		Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.		Well Name A-40	
Facility License, Permit or Monitoring No.		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/>		Wis. Unique Well No. _____ DNR Well ID No. _____	
Facility ID 241496970		St. Plane _____ ft. N, _____ ft. E. S/C/N		Date Well Installed ____/____/____	
Type of Well Temporary Well Code _____		Section Location of Waste/Source NW 1/4 of NW 1/4 of Sec. 34, T. 6 N, R. 22 <input checked="" type="checkbox"/> E. <input type="checkbox"/> W.		Well Installed By: Name (first, last) and Firm Matt Baake	
Distance from Waste/Source _____ ft.		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input checked="" type="checkbox"/> Not Known		Gov. Lot Number _____	
Enf. Stds. Apply <input type="checkbox"/>				Baake Field Services	

A. Protective pipe, top elevation _____ ft. MSL	1. Cap and lock? No Lock <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ in.
C. Land surface elevation _____ ft. MSL	b. Length: _____ ft.
D. Surface seal, bottom _____ ft. MSL or 1.0 ft.	c. Material: Steel <input type="checkbox"/> 04 Schedule 40 PVC <input checked="" type="checkbox"/> Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input checked="" type="checkbox"/> SC <input type="checkbox"/> ML <input checked="" type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3. Surface seal: Bentonite <input checked="" type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input type="checkbox"/>
14. Drilling method used: Rotary <input type="checkbox"/> 50 Direct Push Hollow Stem Auger <input type="checkbox"/> 41 Other <input checked="" type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Other <input type="checkbox"/>
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99	5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
17. Source of water (attach analysis, if required): _____	6. Bentonite seal: a. Bentonite granules <input checked="" type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
E. Bentonite seal, top _____ ft. MSL or _____ ft.	7. Fine sand material: Manufacturer, product name & mesh size a. _____ b. Volume added _____ ft ³
F. Fine sand, top _____ ft. MSL or _____ ft.	8. Filter pack material: Manufacturer, product name & mesh size Tech Mix, 20/40 Filter Sand a. _____ b. Volume added 1.2 ft ³
G. Filter pack, top _____ ft. MSL or 2.5 ft.	9. Well casing: Flush threaded PVC schedule 40 <input type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
H. Screen joint, top _____ ft. MSL or 4.5 ft.	10. Screen material: Schedule 40 PVC a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
I. Well bottom _____ ft. MSL or 14.5 ft.	b. Manufacturer Johnson Screen c. Slot size: 0.001 in. d. Slotted length: 10.0 ft.
J. Filter pack, bottom _____ ft. MSL or 1.5 ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>
K. Borehole, bottom _____ ft. MSL or 15 ft.	
L. Borehole, diameter 2.5 in.	
M. O.D. well casing 1.25 in.	
N. I.D. well casing 1.0 in.	

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Signature  Firm KPH Environmental Corp.

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Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name 128th Air National Guard		Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.		Well Name A-43	
Facility License, Permit or Monitoring No.		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/>		Wis. Unique Well No. _____ DNR Well ID No. _____	
Facility ID 241496970		St. Plane _____ ft. N. _____ ft. E. S/C/N		Date Well Installed ____/____/____	
Type of Well Temporary Well Code _____		Section Location of Waste/Source NW 1/4 of NW 1/4 of Sec. 34, T. 6 N, R. 22 <input checked="" type="checkbox"/> E <input type="checkbox"/> W		Well Installed By: Name (first, last) and Firm Matt Baake	
Distance from Waste/Source _____ ft.		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidogradient d <input type="checkbox"/> Downgradient n <input checked="" type="checkbox"/> Not Known		Gov. Lot Number _____	
Enf. Stds. Apply <input type="checkbox"/>				Baake Field Services	

A. Protective pipe, top elevation _____ ft. MSL

B. Well casing, top elevation _____ ft. MSL

C. Land surface elevation _____ ft. MSL

D. Surface seal, bottom _____ ft. MSL or _____ 1.0 ft.

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

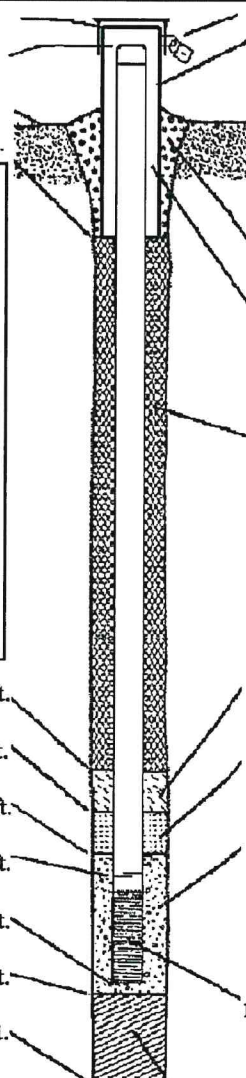
13. Sieve analysis performed? Yes No

14. Drilling method used: Rotary 5 0
 Direct Push Hollow Stem Auger 4 1
 Other

15. Drilling fluid used: Water 0 2 Air 0 1
 Drilling Mud 0 3 None 9 9

16. Drilling additives used? Yes No
 Describe _____

17. Source of water (attach analysis, if required):



1. Cap and lock? No Lock Yes No

2. Protective cover pipe:
 a. Inside diameter: _____ in.
 b. Length: _____ ft.
 c. Material: Steel 0 4
 Schedule 40 PVC Other
 d. Additional protection? Yes No
 If yes, describe: _____

3. Surface seal: Bentonite 3 0
 Concrete 0 1
 Other

4. Material between well casing and protective pipe:
 Bentonite 3 0
 Other

5. Annular space seal: a. Granular/Chipped Bentonite 3 3
 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry 3 5
 c. _____ Lbs/gal mud weight Bentonite slurry 3 1
 d. _____ % Bentonite Bentonite-cement grout 5 0
 e. _____ Ft³ volume added for any of the above
 f. How installed: Tremie 0 1
 Gravity 0 8

6. Bentonite seal: a. Bentonite granules 3 3
 b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 3 2
 c. _____ Other

7. Fine sand material: Manufacturer, product name & mesh size
 a. _____
 b. Volume added _____ ft³

8. Filter pack material: Manufacturer, product name & mesh size
 Tech Mix, 20/40 Filter Sand
 a. _____
 b. Volume added 1.2 ft³

9. Well casing: Flush threaded PVC schedule 40 2 3
 Flush threaded PVC schedule 80 2 4
 Other

10. Screen material: Schedule 40 PVC
 a. Screen type: Factory cut 1 1
 Continuous slot 0 1
 Other
 b. Manufacturer Johnson Screen
 c. Slot size: 0.01 in.
 d. Slotted length: 10.0 ft.

11. Backfill material (below filter pack): None 1 4
 Other

E. Bentonite seal, top _____ ft. MSL or _____ ft.

F. Fine sand, top _____ ft. MSL or _____ ft.

G. Filter pack, top _____ ft. MSL or 7.5 ft.

H. Screen joint, top _____ ft. MSL or 9.5 ft.

I. Well bottom _____ ft. MSL or 19.5 ft.

J. Filter pack, bottom _____ ft. MSL or 2.0 ft.

K. Borehole, bottom _____ ft. MSL or 2.0 ft.

L. Borehole, diameter 2.5 in.

M. O.D. well casing 1.25 in.

N. I.D. well casing 1.0 in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature *[Handwritten Signature]* Firm KPH Environmental Corp.

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name 128th Air National Guard		Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.		Well Name A-45	
Facility License, Permit or Monitoring No.		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/>		Wis. Unique Well No. DNR Well ID No.	
Facility ID 241496970		St. Plane _____ ft. N. _____ ft. E. S/C/N		Date Well Installed ____/____/____	
Type of Well Temporary Well Code _____		Section Location of Waste/Source NW 1/4 of NW 1/4 of Sec. 34, T. 6 N, R. 22 <input checked="" type="checkbox"/> E <input type="checkbox"/> W		Well Installed By: Name (first, last) and Firm Matt Baake	
Distance from Waste/Source _____ ft.		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidgradient d <input type="checkbox"/> Downgradient n <input checked="" type="checkbox"/> Not Known		Gov. Lot Number	
Enf. Stds. Apply <input type="checkbox"/>				Baake Field Services	

A. Protective pipe, top elevation _____ ft. MSL	1. Cap and lock? No Lock <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ in.
C. Land surface elevation _____ ft. MSL	b. Length: _____ ft.
D. Surface seal, bottom _____ ft. MSL or 1.0 ft.	c. Material: Steel <input type="checkbox"/> 04 Schedule 40 PVC <input checked="" type="checkbox"/> Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input checked="" type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input checked="" type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3. Surface seal: Bentonite <input checked="" type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input type="checkbox"/>
14. Drilling method used: Rotary <input type="checkbox"/> 50 Direct Push <input checked="" type="checkbox"/> Hollow Stem Auger <input type="checkbox"/> 41 Other <input type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Other <input type="checkbox"/>
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99	5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	6. Bentonite seal: a. Bentonite granules <input checked="" type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
17. Source of water (attach analysis, if required): _____	7. Fine sand material: Manufacturer, product name & mesh size a. _____ b. Volume added _____ ft ³
E. Bentonite seal, top _____ ft. MSL or _____ ft.	8. Filter pack material: Manufacturer, product name & mesh size a. Tech Mix, 20/40 Filter Sand b. Volume added 1.2 ft ³
F. Fine sand, top _____ ft. MSL or _____ ft.	9. Well casing: Flush threaded PVC schedule 40 <input type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
G. Filter pack, top _____ ft. MSL or 7.5 ft.	10. Screen material: Schedule 40 PVC a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
H. Screen joint, top _____ ft. MSL or 9.5 ft.	b. Manufacturer Johnson Screen c. Slot size: 0.001 in. d. Slotted length: 10.0 ft.
I. Well bottom _____ ft. MSL or 19.5 ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>
J. Filter pack, bottom _____ ft. MSL or 20 ft.	
K. Borehole, bottom _____ ft. MSL or 20 ft.	
L. Borehole, diameter 2.5 in.	
M. O.D. well casing 1.25 in.	
N. I.D. well casing 1.0 in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature: *[Signature]* Firm: KPH Environmental Corp.

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Verification Only of Fill and Seal

Route to DNR Bureau:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information **2. Facility / Owner Information**

County Milwaukee	WI Unique Well # of Removed Well A-2	Hicap #
Latitude / Longitude (see instructions) 42.937832 N 87.889878 W	Format Code <input type="checkbox"/> DD <input type="checkbox"/> DDM	Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001
¼ / ¼ NW ¼ NW or Gov't Lot #	Section 34	Township 6 N
Well Street Address 1919 East Grange Avenue	Range 22	<input checked="" type="checkbox"/> E <input type="checkbox"/> W
Well City, Village or Town Milwaukee	Well ZIP Code 53207	
Subdivision Name	Lot #	

Facility Name 128th Air National Guard
Facility ID (FID or PWS) 241496970
License/Permit/Monitoring #
Original Well Owner Wisconsin Air National Guard
Present Well Owner Wisconsin Air National Guard
Mailing Address of Present Owner 1919 East Grange Avenue
City of Present Owner Milwaukee
State WI
ZIP Code 53207

Reason for Removal from Service Temporary Well	WI Unique Well # of Replacement Well
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3. Filled & Sealed Well / Drillhole / Borehole Information

<input checked="" type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) 05/04/2023
<input type="checkbox"/> Water Well	If a Well Construction Report is available, please attach.
<input type="checkbox"/> Borehole / Drillhole	
Construction Type:	
<input type="checkbox"/> Drilled	<input type="checkbox"/> Driven (Sandpoint)
<input checked="" type="checkbox"/> Other (specify): Direct Push	<input type="checkbox"/> Dug
Formation Type:	
<input checked="" type="checkbox"/> Unconsolidated Formation	<input type="checkbox"/> Bedrock
Total Well Depth From Ground Surface (ft.) 15.0	Casing Diameter (in.) 1.0
Lower Drillhole Diameter (in.) 2.5	Casing Depth (ft.) 5.0
Was well annular space grouted?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
If yes, to what depth (feet)?	Depth to Water (feet) 6.10

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) perforated?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Screen removed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Required Method of Placing Sealing Material	
<input type="checkbox"/> Conductor Pipe-Gravity	<input type="checkbox"/> Conductor Pipe-Pumped
<input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips)	<input type="checkbox"/> Other (Explain): _____
Sealing Materials	
<input type="checkbox"/> Neat Cement Grout	<input type="checkbox"/> Concrete
<input type="checkbox"/> Sand-Cement (Concrete) Grout	<input checked="" type="checkbox"/> Bentonite Chips
For Monitoring Wells and Monitoring Well Boreholes Only:	
<input checked="" type="checkbox"/> Bentonite Chips	<input type="checkbox"/> Bentonite - Cement Grout
<input type="checkbox"/> Granular Bentonite	<input type="checkbox"/> Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	15	1.3 ft³	

6. Comments

7. Supervision of Work **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing Matt Baake	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 11/20/2023	Date Received	Noted By
Street or Route 5256 North 27th Street	Telephone Number (414) 292-7569	Comments		
City Milwaukee	State WI	ZIP Code 53209	Signature of Person Doing Work <i>Matt Baake</i>	Date Signed 11/30/23

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to DNR Bureau:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information

County Milwaukee	WI Unique Well # of Removed Well A-18	Hicap #
Latitude / Longitude (see instructions) 42.937881 N 87.889161 W	Format Code <input type="checkbox"/> DD <input type="checkbox"/> DDM	Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001
¼ / ¼ NW ¼ NW or Gov't Lot #	Section 34	Township 6 N
Well Street Address 1919 East Grange Avenue	Range 22	<input checked="" type="checkbox"/> E <input type="checkbox"/> W
Well City, Village or Town Milwaukee	Well ZIP Code 53207	
Subdivision Name	Lot #	
Reason for Removal from Service Temporary Well	WI Unique Well # of Replacement Well	

2. Facility / Owner Information

Facility Name 128th Air National Guard
Facility ID (FID or PWS) 241496970
License/Permit/Monitoring #
Original Well Owner Wisconsin Air National Guard
Present Well Owner Wisconsin Air National Guard
Mailing Address of Present Owner 1919 East Grange Avenue
City of Present Owner Milwaukee
State WI
ZIP Code 53207

3. Filled & Sealed Well / Drillhole / Borehole Information

<input checked="" type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) 05/09/2023
<input type="checkbox"/> Water Well	If a Well Construction Report is available, please attach.
<input type="checkbox"/> Borehole / Drillhole	
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (specify): Direct Push	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	
Total Well Depth From Ground Surface (ft.) 15.0	Casing Diameter (in.) 1.0
Lower Drillhole Diameter (in.) 2.5	Casing Depth (ft.) 5.0
Was well annular space grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
If yes, to what depth (feet)?	Depth to Water (feet) 6.90

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) perforated?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Screen removed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Required Method of Placing Sealing Material	
<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped	
<input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): _____	
Sealing Materials	
<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete	
<input type="checkbox"/> Sand-Cement (Concrete) Grout <input checked="" type="checkbox"/> Bentonite Chips	
For Monitoring Wells and Monitoring Well Boreholes Only:	
<input checked="" type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout	
<input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used to Fill Well / Drillhole

Material	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite Chips	Surface	15	1.3 ft³	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing Matt Baake	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 11/20/2023	DNR Use Only	
Street or Route 5256 North 27th Street	Telephone Number (414) 292-7569	Date Received	Noted By	
City Milwaukee	State WI	ZIP Code 53209	Signature of Person Doing Work <i>Matt Baake</i>	Date Signed 11/20/23

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

<input type="checkbox"/> Verification Only of Fill and Seal	Route to DNR Bureau:			
	<input type="checkbox"/> Drinking Water	<input type="checkbox"/> Watershed/Wastewater	<input checked="" type="checkbox"/> Remediation/Redevelopment	
	<input type="checkbox"/> Waste Management	<input type="checkbox"/> Other: _____		

1. Well Location Information				2. Facility / Owner Information			
County Milwaukee		WI Unique Well # of Removed Well A-29		Hicap #		Facility Name 128th Air National Guard	
Latitude / Longitude (see instructions) 42.938248 N 87.888960 W		Format Code <input type="checkbox"/> DD <input type="checkbox"/> DDM		Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001		Facility ID (FID or PWS) 241496970	
¼ / ¼ NW ¼ NW or Gov't Lot #		Section 34		Township 6 N		Range <input checked="" type="checkbox"/> E <input type="checkbox"/> W	
Well Street Address 1919 East Grange Avenue				Original Well Owner Wisconsin Air National Guard			
Well City, Village or Town Milwaukee				Well ZIP Code 53207			
Subdivision Name				Lot #		Mailing Address of Present Owner 1919 East Grange Avenue	
Reason for Removal from Service Temporary Well				WI Unique Well # of Replacement Well		City of Present Owner Milwaukee	
						State WI	
						ZIP Code 53207	

3. Filled & Sealed Well / Drillhole / Borehole Information				4. Pump, Liner, Screen, Casing & Sealing Material			
<input checked="" type="checkbox"/> Monitoring Well		Original Construction Date (mm/dd/yyyy) 05/10/2023		Pump and piping removed?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
<input type="checkbox"/> Water Well		If a Well Construction Report is available, please attach.		Liner(s) removed?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
<input type="checkbox"/> Borehole / Drillhole				Liner(s) perforated?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Construction Type:				Screen removed?			
<input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
<input checked="" type="checkbox"/> Other (specify): <u>Direct Push</u>				Casing left in place?			
Formation Type:				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A			
<input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock				Was casing cut off below surface?			
Total Well Depth From Ground Surface (ft.) 20.0		Casing Diameter (in.) 1.0		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Lower Drillhole Diameter (in.) 2.5		Casing Depth (ft.) 5.0		Did sealing material rise to surface?			
Was well annular space grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A			
If yes, to what depth (feet)?		Depth to Water (feet) 5.20		Did material settle after 24 hours?			
				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A			
				If yes, was hole retopped?			
				<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
				If bentonite chips were used, were they hydrated with water from a known safe source?			
				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
				Required Method of Placing Sealing Material			
				<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped			
				<input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): _____			
				Sealing Materials			
				<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete			
				<input type="checkbox"/> Sand-Cement (Concrete) Grout <input checked="" type="checkbox"/> Bentonite Chips			
				For Monitoring Wells and Monitoring Well Boreholes Only:			
				<input checked="" type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout			
				<input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry			

5. Material Used to Fill Well / Drillhole			
Bentonite Chips		From (ft.) Surface	To (ft.)
		No. Yards, Sacks Sealant or Volume (circle one) 1.75 ft³	
		Mix Ratio or Mud Weight	
6. Comments			

7. Supervision of Work			DNR Use Only	
Name of Person or Firm Doing Filling & Sealing Matt Baake	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 11/20/2023	Date Received	Noted By
Street or Route 5256 North 27th Street		Telephone Number (414) 292-7569	Comments	
City Milwaukee	State WI	ZIP Code 53209	Signature of Person Doing Work <i>Matt Baake</i>	Date Signed 11/20/23

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to DNR Bureau:

Drinking Water Watershed/Wastewater Remediation/Redevelopment

Waste Management Other: _____

1. Well Location Information				2. Facility / Owner Information			
County Milwaukee		WI Unique Well # of Removed Well A-33		Hicap #		Facility Name 128th Air National Guard	
Latitude / Longitude (see instructions) 42.938336 N		Format Code <input type="checkbox"/> DD <input type="checkbox"/> DDM		Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001		Facility ID (FID or PWS) 241496970	
87.888617 W		Section 34		Township 6 N		License/Permit/Monitoring #	
¼ / ¼ NW NW		Range 22		<input checked="" type="checkbox"/> E <input type="checkbox"/> W		Original Well Owner Wisconsin Air National Guard	
or Gov't Lot #		Well Street Address 1919 East Grange Avenue		Present Well Owner Wisconsin Air National Guard		Mailing Address of Present Owner 1919 East Grange Avenue	
Well City, Village or Town Milwaukee		Well ZIP Code 53207		City of Present Owner Milwaukee		State ZIP Code WI 53207	
Subdivision Name		Lot #		Reason for Removal from Service Temporary Well		WI Unique Well # of Replacement Well	

3. Filled & Sealed Well / Drillhole / Borehole Information		4. Pump, Liner, Screen, Casing & Sealing Material			
<input checked="" type="checkbox"/> Monitoring Well		Original Construction Date (mm/dd/yyyy) 05/09/2023		Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
<input type="checkbox"/> Water Well		If a Well Construction Report is available, please attach.		Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
<input type="checkbox"/> Borehole / Drillhole		Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug		Liner(s) perforated? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		<input checked="" type="checkbox"/> Other (specify): Direct Push		Screen removed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Total Well Depth From Ground Surface (ft.) 15.0		Casing Diameter (in.) 1.0		Casing left in place? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Lower Drillhole Diameter (in.) 2.5		Casing Depth (ft.) 5.0		Was casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Was well annular space grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		Depth to Water (feet) 6.10		Did sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
If yes, to what depth (feet)?		Required Method of Placing Sealing Material: <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped		Did material settle after 24 hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
		<input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): _____		If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
		Sealing Materials: <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete		If bentonite chips were used, were they hydrated with water from a known safe source? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
		<input type="checkbox"/> Sand-Cement (Concrete) Grout <input checked="" type="checkbox"/> Bentonite Chips		For Monitoring Wells and Monitoring Well Boreholes Only: <input checked="" type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout	
		<input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry			

5. Material Used to Fill Well / Drillhole			
Bentonite Chips		From (ft.) Surface	To (ft.) 15
		No. Yards, Sacks Sealant or Volume (circle one) 1.3 ft³	Mix Ratio or Mud Weight
6. Comments			

7. Supervision of Work			DNR Use Only		
Name of Person or Firm Doing Filling & Sealing Matt Baake		License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 11/20/2023	Date Received	Noted By
Street or Route 5256 North 27th Street			Telephone Number (414) 292-7569	Comments	
City Milwaukee	State WI	ZIP Code 53209	Signature of Person Doing Work <i>Matt Baake</i>	Date Signed 11/20/23	

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to DNR Bureau:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information				2. Facility / Owner Information			
County Milwaukee		WI Unique Well # of Removed Well A-37		Hicap #		Facility Name 128th Air National Guard	
Latitude / Longitude (see instructions) 42.938671 N 87.888906 W		Format Code <input type="checkbox"/> DD <input type="checkbox"/> DDM		Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001		Facility ID (FID or PWS) 241496970	
¼ / ¼ NW ¼ NW or Gov't Lot #		Section 34		Township 6 N		Range <input checked="" type="checkbox"/> E <input type="checkbox"/> W	
Well Street Address 1919 East Grange Avenue				Original Well Owner Wisconsin Air National Guard			
Well City, Village or Town Milwaukee				Well ZIP Code 53207			
Subdivision Name				Lot #		City of Present Owner Milwaukee	
Reason for Removal from Service Temporary Well		WI Unique Well # of Replacement Well		State WI		ZIP Code 53207	
3. Filled & Sealed Well / Drillhole / Borehole Information							
<input checked="" type="checkbox"/> Monitoring Well		Original Construction Date (mm/dd/yyyy) 05/10/2023		4. Pump, Liner, Screen, Casing & Sealing Material Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Liner(s) perforated? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Screen removed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Casing left in place? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A Was casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Did sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Did material settle after 24 hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A If bentonite chips were used, were they hydrated with water from a known safe source? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
<input type="checkbox"/> Water Well		If a Well Construction Report is available, please attach.					
<input type="checkbox"/> Borehole / Drillhole							
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (specify): Direct Push							
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock							
Total Well Depth From Ground Surface (ft.) 20.0		Casing Diameter (in.) 1.0		Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): _____			
Lower Drillhole Diameter (in.) 2.5		Casing Depth (ft.) 5.0		Sealing Materials <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Sand-Cement (Concrete) Grout <input checked="" type="checkbox"/> Bentonite Chips			
Was well annular space grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		Depth to Water (feet) 4.30		For Monitoring Wells and Monitoring Well Boreholes Only: <input checked="" type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry			
5. Material Used to Fill Well / Drillhole				6. Comments			
Bentonite Chips		From (ft.) Surface		To (ft.) 20		No. Yards, Sacks Sealant or Volume (circle one) 1.25 ft³	
7. Supervision of Work							
Name of Person or Firm Doing Filling & Sealing Matt Baake		License #		Date of Filling & Sealing or Verification (mm/dd/yyyy) 11/20/2023		DNR Use Only Date Received	
Street or Route 5256 North 27th Street		Telephone Number (414) 292-7569		Signature of Person Doing Work <i>Matt Baake</i>		Noted By	
City Milwaukee		State WI		ZIP Code 53209		Date Signed 11/20/23	

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to DNR Bureau:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information

County Milwaukee		WI Unique Well # of Removed Well A-38	Hicap #
Latitude / Longitude (see instructions) 42.938527 N 87.888362 W		Format Code <input type="checkbox"/> DD <input type="checkbox"/> DDM	Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001
1/4 1/4 NW or Gov't Lot #	1/4 NW	Section 34	Township 6 N
Well Street Address 1919 East Grange Avenue		Range <input checked="" type="checkbox"/> E <input type="checkbox"/> W	
Well City, Village or Town Milwaukee		Well ZIP Code 53207	
Subdivision Name		Lot #	

2. Facility / Owner Information

Facility Name 128th Air National Guard
Facility ID (FID or PWS) 241496970
License/Permit/Monitoring #
Original Well Owner Wisconsin Air National Guard
Present Well Owner Wisconsin Air National Guard
Mailing Address of Present Owner 1919 East Grange Avenue
City of Present Owner Milwaukee
State WI
ZIP Code 53207

3. Filled & Sealed Well / Drillhole / Borehole Information

<input checked="" type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) 05/10/2023
<input type="checkbox"/> Water Well	If a Well Construction Report is available, please attach.
<input type="checkbox"/> Borehole / Drillhole	
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (specify): Direct Push	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	
Total Well Depth From Ground Surface (ft.) 15.0	Casing Diameter (in.) 1.0
Lower Drillhole Diameter (in.) 2.5	Casing Depth (ft.) 5.0
Was well annular space grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
If yes, to what depth (feet)?	Depth to Water (feet) 5.05

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) perforated?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Screen removed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): _____	
Sealing Materials <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Sand-Cement (Concrete) Grout <input checked="" type="checkbox"/> Bentonite Chips	
For Monitoring Wells and Monitoring Well Boreholes Only: <input checked="" type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used to Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	15	1.3 ft³	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing Matt Baake	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 11/20/2023	DNR Use Only	
Street or Route 5256 North 27th Street		Telephone Number (414) 292-7569	Date Received	Noted By
City Milwaukee	State WI	ZIP Code 53209	Signature of Person Doing Work <i>Matt Baake</i>	
			Date Signed 11/20/23	

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to DNR Bureau:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information **2. Facility / Owner Information**

County Milwaukee		WI Unique Well # of Removed Well A-40	Hicap #
Latitude / Longitude (see instructions) 42.938846 N		Format Code <input type="checkbox"/> DD <input type="checkbox"/> DDM	Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001
87.888416 W			
¼ / ¼ NW ¼ NW	Section 34	Township 6 N	Range <input checked="" type="checkbox"/> E <input type="checkbox"/> W 22
Well Street Address 1919 East Grange Avenue			
Well City, Village or Town Milwaukee		Well ZIP Code 53207	
Subdivision Name		Lot #	

Facility Name 128th Air National Guard		
Facility ID (FID or PWS) 241496970		
License/Permit/Monitoring #		
Original Well Owner Wisconsin Air National Guard		
Present Well Owner Wisconsin Air National Guard		
Mailing Address of Present Owner 1919 East Grange Avenue		
City of Present Owner Milwaukee	State WI	ZIP Code 53207

Reason for Removal from Service Temporary Well	WI Unique Well # of Replacement Well
---	--------------------------------------

3. Filled & Sealed Well / Drillhole / Borehole Information

<input checked="" type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) 05/05/2023
<input type="checkbox"/> Water Well	
<input type="checkbox"/> Borehole / Drillhole	If a Well Construction Report is available, please attach.
Construction Type:	
<input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug	
<input checked="" type="checkbox"/> Other (specify): Direct Push	
Formation Type:	
<input checked="" type="checkbox"/> Unconsolidated Formation	<input type="checkbox"/> Bedrock
Total Well Depth From Ground Surface (ft.) 15.0	Casing Diameter (in.) 1.0
Lower Drillhole Diameter (in.) 2.5	Casing Depth (ft.) 5.0
Was well annular space grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
If yes, to what depth (feet)?	Depth to Water (feet) 2.70

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) perforated?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Screen removed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Required Method of Placing Sealing Material	
<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped	
<input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips)	<input type="checkbox"/> Other (Explain): _____
Sealing Materials	
<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete	
<input type="checkbox"/> Sand-Cement (Concrete) Grout <input checked="" type="checkbox"/> Bentonite Chips	
For Monitoring Wells and Monitoring Well Boreholes Only:	
<input checked="" type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout	
<input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used to Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	15	1.3 ft³	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing Matt Baake	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 11/20/2023	DNR Use Only	
Street or Route 5256 North 27th Street		Telephone Number (414) 292-7569	Date Received	Noted By
City Milwaukee	State WI	ZIP Code 53209	Signature of Person Doing Work <i>Matt Baake</i>	
			Date Signed 11/20/23	

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to DNR Bureau:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information				2. Facility / Owner Information			
County Milwaukee		WI Unique Well # of Removed Well A-43		Hicap #		Facility Name 128th Air National Guard	
Latitude / Longitude (see instructions) 42.939968 N 87.887908 W		Format Code <input type="checkbox"/> DD <input type="checkbox"/> DDM		Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001		Facility ID (FID or PWS) 241496970	
¼ / ¼ NW ¼ NW or Gov't Lot #		Section 34		Township 6 N		Range <input checked="" type="checkbox"/> E <input type="checkbox"/> W	
Well Street Address 1919 East Grange Avenue				Original Well Owner Wisconsin Air National Guard			
Well City, Village or Town Milwaukee				Well ZIP Code 53207			
Subdivision Name				Lot #		Present Well Owner Wisconsin Air National Guard	
Reason for Removal from Service Temporary Well				WI Unique Well # of Replacement Well		Mailing Address of Present Owner 1919 East Grange Avenue	
3. Filled & Sealed Well / Drillhole / Borehole Information							
<input checked="" type="checkbox"/> Monitoring Well		Original Construction Date (mm/dd/yyyy) 05/05/2023		4. Pump, Liner, Screen, Casing & Sealing Material Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Liner(s) perforated? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Screen removed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Casing left in place? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A Was casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Did sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Did material settle after 24 hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A If bentonite chips were used, were they hydrated with water from a known safe source? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
<input type="checkbox"/> Water Well		If a Well Construction Report is available, please attach.					
<input type="checkbox"/> Borehole / Drillhole							
Construction Type:							
<input type="checkbox"/> Drilled		<input type="checkbox"/> Driven (Sandpoint)		<input type="checkbox"/> Dug		Required Method of Placing Sealing Material	
<input checked="" type="checkbox"/> Other (specify): Direct Push						<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): _____	
Formation Type:							
<input checked="" type="checkbox"/> Unconsolidated Formation		<input type="checkbox"/> Bedrock		Total Well Depth From Ground Surface (ft.) 20.0		Casing Diameter (in.) 1.0	
Lower Drillhole Diameter (in.) 2.5		Casing Depth (ft.) 5.0		Was well annular space grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		Sealing Materials	
If yes, to what depth (feet)?		Depth to Water (feet) 4.70				<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Sand-Cement (Concrete) Grout <input checked="" type="checkbox"/> Bentonite Chips	
5. Material Used to Fill Well / Drillhole							
Bentonite Chips		From (ft.) Surface		To (ft.) 20		No. Yards, Sacks Sealant or Volume (circle one) 1.25 ft³	
						Mix Ratio or Mud Weight	
6. Comments							
7. Supervision of Work				DNR Use Only			
Name of Person or Firm Doing Filling & Sealing Matt Baake		License #		Date of Filling & Sealing or Verification (mm/dd/yyyy) 11/20/2023		Date Received	
Street or Route 5256 North 27th Street		Telephone Number (414) 292-7569		Comments		Noted By	
City Milwaukee		State WI		ZIP Code 53209		Signature of Person Doing Work <i>Matt Baake</i>	
						Date Signed 11/20/23	

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to DNR Bureau:

Drinking Water Watershed/Wastewater Remediation/Redevelopment

Waste Management Other: _____

1. Well Location Information				2. Facility / Owner Information			
County Milwaukee		WI Unique Well # of Removed Well A-45		Hicap #		Facility Name 128th Air National Guard	
Latitude / Longitude (see instructions) 42.940515 N 87.888056 W		Format Code <input type="checkbox"/> DD <input type="checkbox"/> DDM		Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001		Facility ID (FID or PWS) 241496970	
¼ / ¼ NW ¼ NW or Gov't Lot #		Section 34		Township 6 N		Range <input checked="" type="checkbox"/> E <input type="checkbox"/> W	
Well Street Address 1919 East Grange Avenue				Original Well Owner Wisconsin Air National Guard			
Well City, Village or Town Milwaukee				Well ZIP Code 53207			
Subdivision Name				Lot #		Present Well Owner Wisconsin Air National Guard	
Reason for Removal from Service Temporary Well				WI Unique Well # of Replacement Well			
Mailing Address of Present Owner 1919 East Grange Avenue				City of Present Owner Milwaukee		State WI	
						ZIP Code 53207	

3. Filled & Sealed Well / Drillhole / Borehole Information		4. Pump, Liner, Screen, Casing & Sealing Material			
<input checked="" type="checkbox"/> Monitoring Well		Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
<input type="checkbox"/> Water Well		Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
<input type="checkbox"/> Borehole / Drillhole		Liner(s) perforated? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
Original Construction Date (mm/dd/yyyy) 05/05/2023		Screen removed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
If a Well Construction Report is available, please attach.		Casing left in place? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A			
Construction Type:		Was casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
<input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug		Did sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
<input checked="" type="checkbox"/> Other (specify): Direct Push		Did material settle after 24 hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A			
Formation Type:		If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
<input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		If bentonite chips were used, were they hydrated with water from a known safe source? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Total Well Depth From Ground Surface (ft.) 20.0		Required Method of Placing Sealing Material			
Casing Diameter (in.) 1.0		<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped			
Lower Drillhole Diameter (in.) 2.5		<input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): _____			
Casing Depth (ft.) 5.0		Sealing Materials			
Was well annular space grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete			
If yes, to what depth (feet)?		<input type="checkbox"/> Sand-Cement (Concrete) Grout <input checked="" type="checkbox"/> Bentonite Chips			
Depth to Water (feet) 5.70		For Monitoring Wells and Monitoring Well Boreholes Only:			
		<input checked="" type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout			
		<input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry			

5. Material Used to Fill Well / Drillhole			
From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite Chips	Surface	20	1.75 ft³

6. Comments

7. Supervision of Work			DNR Use Only		
Name of Person or Firm Doing Filling & Sealing Matt Baake		License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 11/20/2023	Date Received	Noted By
Street or Route 5256 North 27th Street			Telephone Number (414) 292-7569	Comments	
City Milwaukee	State WI	ZIP Code 53209	Signature of Person Doing Work <i>Matt Baake</i>	Date Signed 11/20/23	



Site Health & Safety Plan

Project:
**SOIL AND GROUNDWATER SAMPLING
TO SUPPORT WASTE PROFILING AND DISPOSAL**

Job Site:
**FUEL FACILITY REPLACEMENT
WISCONSIN AIR NATIONAL GUARD AT
GENERAL MITCHELL INTERNATIONAL AIRPORT
MILWAUKEE, WISCONSIN**

For:
NOVA Group, Inc.
Attn: Walt Schwartz, PE
1305 Lumsden Road
Port Orchard, WA 98367

Prepared By:
KPH Environmental
1237 West Bruce Street
Milwaukee, Wisconsin 53204

May 2023

KPH ENVIRONMENTAL	WEB kphbuilds.com	
WISCONSIN ADDRESS 1237 West Bruce Street, Milwaukee, WI 53204	PHONE 414.647.1530	FAX 414.647.1540
MICHIGAN ADDRESS 3737 Lake Eastbrook, Suite 203, Grand Rapids, MI 49503	PHONE 616.920.0574	FAX 414.647.1540



A. INTRODUCTION

This project consists of drilling soil borings, collecting soil samples, installing temporary monitoring wells, and collecting groundwater samples for waste profiling at the location of a planned Fuel Replacement Facility for the Wisconsin Air National Guard, General Mitchell International Airport, Milwaukee, Wisconsin.

The following regulations have been referenced for this plan:

1. 29 CFR, Part 1910: Occupational Safety and Health Administration (OSHA) General Industry and Health Standards.
2. 29 CFR, Part 1926: OSHA Construction Industry Standards.
3. 40 CFR, Part 261: Environmental Protection Agency (EPA) Characteristics of Hazardous Waste.

This plan discusses the safety procedures to be followed, training, and accident reporting, and includes the following:

- Personnel
- Training
- Personal Protective Equipment
- Emergency Procedures for Accidents and Exposures
- Procedures for Toxic and Hazardous Materials
- Hazardous Identification & Control Mechanisms
- Interfacing & Control of Subcontractors
- Occupational Noise Exposure
- Hazard Communication and Hazardous Chemicals

Owner Information:

128th Air Refueling Wing
1919 East Grange Avenue
Milwaukee WI 53207

Project Information:

Fuel Replacement Facility
128th Air Refueling Wing
1919 East Grange Avenue

Contractor:

KPH Environmental Corp.
1237 West Bruce Street
Milwaukee, Wisconsin 53204
(414) 647-1530

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MICHIGAN	ADDRESS 3737 Lake Eastbrook, Suite 203, Grand Rapids, MI 49503	PHONE 616.920.0574	FAX 414.647.1540



B. KPH ENVIRONMENTAL CORP., SAFETY PERSONNEL

The KPH Environmental Corp., Safety & Occupational Health Officer for this project will be Ken Harenda II. The KPH Environmental Corp., Competent Person shall be Dean Jacobsen. All can be reached at (414) 647-1530.

Prior to the start of on site work, a safety meeting will be with representatives of KPH and the subcontractor (direct push drilling) personnel to review project safety and health requirements.

C. EMPLOYEE TRAINING AND SITE SAFETY

The applicable safety and health regulations and standards will be met through the enforcement of this Safety Plan by the KPH Environmental Corp., Safety & Occupational Health Officer and the KPH Environmental Corp., Competent Person. Personnel will be instructed on the plan’s contents and will be trained where required by the regulations.

1. Employee Training

All employees that will work on this project will be trained & certified in their respective disciplines, where applicable. This training will vary depending upon the employee’s job position and assignments. Employees will also undergo annual refresher courses as needed. Training will be accomplished by the Safety & Occupational Health Officer, or by reliable outside sources. When practicable, employees who have not had the complete training session will be assigned a class. Employees must have completed all training before working on the job site. Specialized training will be conducted for a new hazard for which there has been no previous or similar experience in the workplace.

Employees must report injuries or suspected injuries or illness due to working conditions to the KPH Environmental Corp., office as soon as possible and no later than the end of the workday.

2. Project Safety Management

No person shall be required or instructed to work in surroundings or under conditions that are unsafe or dangerous to his or her health. Engineering controls will be used to the extent possible to reduce or eliminate hazards. Each employee is responsible for complying with applicable safety and occupational health requirements, wearing prescribed safety and health equipment, reporting unsafe conditions/activities, preventing avoidable accidents, and working in a safe manner.

The 128th Air Refueling Wing, Nova Group, Inc., or their designated representative may immediately stop work when an employee is deemed to be in imminent danger of serious injury or loss of life. KPH Environmental Corp., shall immediately correct the unsafe condition. Work shall not resume until authorized by the 128th Air Refueling Wing or Nova Group, Inc.

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D. PERSONAL PROTECTIVE EQUIPMENT

Section 29 CFR 1910.132 requires employers and employees to provide, use, and maintain personal protective equipment (PPE) wherever it is necessary by reasons of hazards of process or environment.

It is important that personal protective equipment and safety requirements be appropriate to protect against the potential hazards at the job site. Protective equipment has been selected based on the expected contaminant type(s) and route of entry. Changes will be made if new hazards are identified during the project.

1. Selection

KPH Environmental Corp., evaluates the potential job hazards of the site. The evaluation includes the project activities, potential job hazards, monitoring activities, safety levels, PPE, site safety practices, warning and communication procedures, emergency procedures, and emergency contacts. Safety equipment shall be provided based on expected hazard to be encountered during drilling, soil sampling, and groundwater sampling.

The employee is responsible for wearing appropriate PPE. The Safety & Occupational Health Officer or Competent Person shall see that appropriate PPE is worn by all employees in operations where there is exposure to hazardous conditions. Site conditions will be monitored to determine appropriate PPE if site conditions change. PPE will be provided by subcontractors for their personnel. The employee must use and properly care for the personal protective equipment and clothing provided by employer and have training in the proper use of personal protective equipment.

2. Protective Equipment

Minimum safety equipment and clothing will be required for all workers and visitors who enter the work area on the job site:

- Safety glasses or cover goggles.
- General work clothes. Clothing to protect against chemical exposure is not required for this project.
- Hearing protection, when necessary, for loud noises
- Hard hat (near operating heavy machinery or where potential head injuries exist)
- Protective gloves for potential contact with expected chemical compounds to be encountered, including perfluoroalkyl and polyfluoroalkyl compounds (PFA).
- Use of respirators is not required for this project. Individual employees may use respirators at their discretion.

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3. Eye Protection

Drilling and sampling activities may put dust particles into the air. Employees must use appropriate eye protection when exposure to eye hazards from particles or liquids will occur.

Each affected employee will use eye protection that provides side protection. Detachable side protectors (e.g., clip-on or slide-on side shields) are acceptable. Each employee who wears prescription lenses while engaged in operations that involve eye hazards must wear eye protection that incorporates the prescription in its design, or wears eye protection that can be worn over the prescription lenses without disturbing the proper position of the prescription lenses or the protective lenses. Eye and face PPE shall be distinctly marked to facilitate identification of the manufacturer.

Protective eye and face devices shall comply with ANSI Z87.1–1989, “American National Standard Practice for Occupational and Educational Eye and Face Protection” or shall be demonstrated to be equally effective.

4. Head Protection

KPH Environmental Corp., shall ensure that each affected employee is provided with a protective hard hat when working in areas where there is a potential for injury to the head from moving objects or low clearances. Hard hats meeting the ANSI standard will be available on the job site.

5. Hand Protection

KPH Environmental Corp., shall select and require employees to use appropriate hand protection when employees’ hands are exposed to hazards such as those from skin absorption of harmful substances; severe cuts or lacerations; severe abrasions; and punctures. KPH Environmental Corp., shall base the selection of the appropriate hand protection on an evaluation of the performance characteristics of the hand protection relative to the task(s) to be performed, conditions present, duration of use, and the hazards and potential hazards identified. Gloves will be required for protection from chemical exposures in soil or groundwater.

E. EMERGENCY PROCEDURES FOR ACCIDENT & EXPOSURES

1. Accidents & Exposures

All accidents that occur incidentally to an operation will be investigated, reported, and analyzed. Accidents may involve physical injuries, or exposures to chemicals through soil or groundwater contact.

Employees are responsible for reporting all injuries, occupationally related illnesses, spills, or exposures as soon as possible to the Safety & Occupational Health Officer or Competent Person. The Safety & Occupational Health Officer or Competent Person shall not decline to accept a report of injury from a subordinate. KPH Environmental Corp., and the Safety & Occupational Health Officer

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or Competent Person are responsible for reporting all injuries to the 128th Air Refueling Wing and Nova Group within 48 hours. This notification shall also include exposure work hours and a log of occupational injuries and illnesses - OSHA Form 300 or equivalent as prescribed by 29 CFR 1904.

An accident or exposure that appears to have any of the consequences listed below shall be immediately reported to the 128th Air Refueling Wing and Nova Group. These accidents and exposures will be investigated in depth to identify all causes and to recommend hazard control measures. KPH Environmental Corp., is responsible for notifying OSHA when one or more of the employees are seriously injured.

- a. Fatal injury,
- b. Permanent totally disabling injury,
- c. Permanent partial disabling injury,
- d. Three or more persons admitted to a hospital
- e. Spill or exposure that may affect other contractors or building occupants

Except for rescue and emergency measures, the accident scene shall not be disturbed until it has been released by the investigating official. KPH Environmental Corp., is responsible for obtaining appropriate medical and emergency assistance and for notifying fire, law enforcement, and regulatory agencies. KPH Environmental Corp., will assist and cooperate fully with OSHA.

2. Emergency Procedures for Spills

The employee that first identifies the emergency will notify the competent person. The competent person shall evaluate the situation and contact the Safety & Occupational Health Officer and the 128th Air Refueling Wing and Nova Group for advice if necessary. Considering personal safety, the Safety & Occupational Health Officer or Competent Person and KPH personnel will remedy the emergency (e.g., use of fire extinguishers, spill containment, etc.) if possible.

For non-life-threatening situations, an employee injured or otherwise incapacitated shall be decontaminated following normal procedures with assistance from fellow workers, if necessary, before exiting the workplace to obtain proper medical treatment.

For life-threatening injury or illness, worker decontamination shall take least priority after measures to stabilize the injured worker, remove them from the workplace and secure proper medical treatment.

F. TOXIC/HAZARDOUS MATERIALS

1. General

KPH Environmental Corp., does not anticipate using or generating any toxic/hazardous materials during the project. However, KPH has been informed that fire fighting foams containing PFA compounds have been used in the planned work during past site activities. The possibility of direct contact with PFA compounds or residues does exist during the drilling and sampling work.

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Appropriate precautions and use of hand and eye protections will be used to avoid contact with any potential PFA containing materials.

G. HAZARD IDENTIFICATION & CONTROL MECHANISMS

The KPH Environmental Corp., Safety & Occupational Health Officer and Competent Person have evaluated the project site for potential hazards and safety problems, as described in this plan. During the course of the project, these individuals, along with all KPH employees on site, will make constant hazard evaluations as the work progresses. Any new hazards or problems that arise will be immediately corrected by the KPH personnel, if possible. Otherwise, the new hazard or problem will be reported to the Safety & Occupational Health Officer or Competent Person for correction. Appropriate PPE will be issued to employees, if required.

H. PROTECTION OF OCCUPANTS & VISITORS

Only authorized Contractors and Nova Group, Inc., personnel shall be allowed in the designated work zone. The work zone will shift location throughout this project as equipment and personnel move from one sample location to another. All entrants must have appropriate personal protective equipment for that area. Important haul and fire safety routes shall not be obstructed or used where they will encroach on entrance and exit routes used by base personnel, or to present an unsafe or unhealthy condition to the public or occupants. Equipment, materials, and wastes will be stored in a manner that does not present a hazard to the public or surrounding building occupants.

I. INTERFACING & CONTROL OF SUBCONTRACTORS

All subcontractors shall abide by all OSHA regulations and safety rules of KPH Environmental Corp. KPH Environmental Corp., will notify all other contractors when actions or activities undertaken by them could affect health or safety of employees of other companies. Subcontractors must inform KPH Environmental Corp., of all injuries to their workers. Any unsafe conditions that come to their attention must be reported to KPH Environmental Corp.

J. OCCUPATIONAL NOISE EXPOSURE

KPH Environmental Corp., will make hearing protectors available to all employees, regardless of noise exposure. Hearing protectors shall be replaced as necessary. Employees are responsible for notifying the Safety & Occupational Health Officer or competent person when replacement is needed. Employees shall be given the opportunity to select their hearing protectors from a variety of suitable hearing protectors, such as ear plugs or earmuffs. KPH Environmental Corp., shall ensure proper initial fitting and supervise the correct use of all hearing protectors. The adequacy of hearing protector attenuation shall be re-evaluated whenever employee noise exposures increase to the extent that the hearing protectors provided may no longer provide adequate attenuation. KPH Environmental Corp., shall provide more effective hearing protectors where necessary.

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K. HAZARD COMMUNICATION

Hazard communication requires all pertinent information of possible hazardous chemicals and potentially dangerous materials which an employee may come into contact with during the project is transmitted to every employee. 29 CFR 1910.1200 requires certain information to be in every Hazard Communication program, including:

- Container labeling and other forms of warning
- Safety Data Sheets (SDS)
- Employee training in regard to generally applicable precautions for safe handling and use of potentially dangerous chemicals and materials
- A list of hazardous chemicals
- Methods used to inform employees of the hazards of non-routine tasks

Hazard communication applies to all employees exposed to hazardous chemicals or materials on a regular basis. Hazardous chemicals are not expected to be used on this project, but all SDS Sheets will be provided as needed.

The following procedures are to be followed to ensure success of Hazard Communication.

- Potentially hazardous chemicals must have a manufacturer's label and a Safety Data Sheet (SDS). The label must include the following:
 - a) Identity of the hazardous chemical(s)
 - b) Appropriate hazard warnings, and
 - c) Name and address of the chemical manufacturer, importer, or other responsible party.

The SDS will include the following information:

- a) Name of the product, the chemical and common name(s) of all ingredients
- b) The harmful ingredients which may contribute to a physical or health hazard.
- c) Physical and chemical characteristics of the hazards (such as vapor pressure and flash point).
- d) The potential for fire, explosion and reactivity, and response information.
- e) Incompatible substances
Physical signs and symptoms of exposure and any medical condition recognized as being aggravated by exposure to the chemical.
- f) The primary route(s) of entry.
- g) The OSHA permissible exposure limit value, and any other exposure limit used or recommended by the chemical manufacturer.
- h) Whether the hazardous chemical is listed in the "National Toxicology Program" or the "Annual Report on Carcinogens".
- i) Applicable precautions for safe handling, cleanup and control of the product.
- j) Emergency first-aid procedures.

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k) Name, address and telephone number of the manufacturer.

- No “open purchase” by an employee of a potentially hazardous chemical to be used on a job site without authority of the supervisor or Corporate Safety Officer.
- All potentially hazardous chemicals and materials will be removed from the work area when not in use to prevent injury (inhalation, ingestion, skin contact, etc.).
- Work areas will be well ventilated, and respirators with appropriate filters and protective clothing will be worn by employees while using a hazardous product, where necessary.
- The Project Manager and/or the Site Supervisor will ensure that an SDS is available for the site if any potential hazardous chemicals or materials are on the job site, including unmarked pipes which may contain hazardous chemicals.
- The Project Manager and/or Site Supervisor will ensure that all SDSs are kept in a easily accessible location on the job site, and that all employees can immediately obtain the information required in case of an emergency.

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Mitchell Airport Hydrant Fuel Replacement Project

Soil Handling Safety Plan

The contaminated soil handling plan for Mitchell Airport Hydrant Fuel Project has two levels of risk. If the total estimated amount of 21,000 cubic yards is removed offsite, the risk to workers is drastically reduced, as most of the activity of handling the soil is completed by excavators and trucks to haul it offsite. The risk can also be engineered out excavation activities thru an Activity Hazard Analysis as follows:

- The equipment used must have enclosed cabs, have a filtered HVAC air recirculation, the excavator removes soil and be positioned upwind from excavation area.
- All contaminated soils will be stored on impervious surfaces (asphalt, plastic liner) until soil removal and excavations are complete using Wisconsin DNR Regulation 502.
- Identify locations where there may be elevated PFOAs and communicate this with co-workers and subcontractors
 - Select and use the proper PPE
- Respirators may be required if significant amounts of PFOA-containing soil is aerosolized in a dust form during excavation, drilling or related activities
- Wear gloves and either disposable coveralls or work clothes that are only worn at the site to prevent PFOA-contaminated materials from getting on personal clothing that may be transferred into vehicles or your home
 - Follow proper hygiene practices
- Do not eat, drink, vape or use tobacco-containing products when handling or working around contaminated soils
- Wash your hands with soap and water and dry them with paper towels before eating, drinking, smoking, vaping or using tobacco-containing products
 - Remove disposable or work clothing and shower before leaving the work site
 - Clean boots, tools and equipment before removing them from the work site
- A truck washing station will be installed to contain the contamination when vehicles are leaving the contaminated area.

The higher risk activity is trying to re-use the contaminated soils for backfill and installation of pipe and equipment placed in trench and forming areas, as workers will have direct exposure to the contaminated soils. Proper PPE must be worn:

- Or a 45-60 mil liner can be installed in trench areas to create a barrier to the soil when installation of trench and excavation components are ongoing.
- All onsite storage of contaminated soils will be placed on a liner or impervious surface and covered
- A decontamination trailer must be available for changing contaminated clothing and showers with fresh water.