



UNITED STATES ENVIRONMENTAL PROTECTION
AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, IL 60604-3590

REPLY TO THE ATTENTION OF:
S-6J

Douglas Yokum
Environmental Flight Chief
934th Airlift Wing, US Air Force Reserve
934 CE/CEV, Building 744
760 Military Highway
Minneapolis, Minnesota 55450-2100

Subject: USEPA Concurrence: Fifth Five-Year Review Report for the Twin Cities
Air Force Reserve Base Small Arms Range Landfill, Hennepin County,
Minnesota

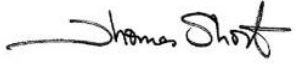
Dear Mr. Yokum:

The U.S. Environmental Protection Agency (USEPA) has received and reviewed the Fifth Five-Year Review Report for the Twin Cities Air Force Reserve Base Small Arms Range Landfill (SARL) Superfund Site (FYR Report). The FYR Report documents the following protectiveness determinations made by the U.S. Air Force for the remedy that has been implemented at the SARL Superfund Site: The remedy at the SARL Site is protective of human health and the environment. The remedy is functioning as intended. Natural attenuation of groundwater contaminants is performing as expected. Access controls, in the form of fencing and warning signs, remain in place at the site. Inappropriate site use is not occurring, nor is groundwater use occurring. Documentation has been incorporated into USAF Real Property records and information management systems to ensure deed restrictions prevent future inappropriate site use and groundwater use, in the event of release or transfer of the property out of USAF control.

By this letter, USEPA concurs with the U.S. Air Force's protectiveness determination for the SARL Superfund Site remedy documented in the Final Fifth FYR Report.

Sincerely,

4/24/2018

X 

Douglas Ballotti
Acting Director, Superfund Division
Signed by: Short, Thomas



DEPARTMENT OF THE AIR FORCE
AIR FORCE RESERVE COMMAND



19 April 2018

934th Airlift Wing, USAFR
CE/CEV, Bldg 744
760 Military Highway
Minneapolis, MN 55450-2100

U.S. Environmental Protection Agency
Region 5, SR-6J Superfund Division
Attn: Tom Barounis, RPM
77 West Jackson Boulevard
Chicago, IL 60604-3590

RE: Final Fifth Five-Year Review Report for Twin Cities Air Force Reserve Base Small Arms Range Landfill Site, Minneapolis-St. Paul Air Reserve Station, Hennepin County, Minnesota

Dear Mr. Barounis,

A statutory five-year review has been completed for the former National Priorities List site identified as the "Twin Cities Air Force Reserve Base Small Arms Range Landfill Site." This is the fifth five-year review for the site, which is located on U.S. Air Force-controlled property in Hennepin County, Minnesota. The Fifth Five-Year Review Report was prepared using USEPA guidance and was previously reviewed in draft form by USEPA Region 5 staff. The final report approved by the Air Force Civil Engineer Center's Director of Environmental Management is submitted in digital format with this letter, for USEPA Region 5 use in deciding whether USEPA will concur with the Air Force protectiveness determination or issue an independent finding of the protectiveness of the remedy.

YOCUM.DOUGLAS.S. Digitally signed by
1229106500 YOCUM.DOUGLAS.S.1229106500
Date: 2018.04.19 15:30:56 -05'00'
DOUGLAS S. YOCUM
Chief, Environmental Flight

Attachment:

Final Fifth (2018) Basewide Five-Year Review – National Priorities List Operable Units, Minneapolis-St. Paul Air Reserve Station; Air Force Civil Engineer Center, March 2018

cc:

AFCEC/CZOM, Attn: Douglas Chase, Offutt AFB RPM, 106 Peacekeeper Dr., Ste 2N3,
Offutt AFB, NE 68113-4000

FINAL

**FIFTH (2018) BASEWIDE FIVE-YEAR REVIEW –
NATIONAL PRIORITIES LIST OPERABLE UNITS**

MINNEAPOLIS-ST PAUL AIR RESERVE STATION

March 2018

Prepared for:



Air Force Civil Engineer Center

and



934th Airlift Wing
Minneapolis-St Paul Air Reserve Station

Prepared by: Mr. Doug Youcum

Approved:

Date:



SUZANNE W. BILBREY, P.E., GS-15, DAF

Director, Environmental Management Directorate



19 Apr 2018

AFLOA/JACE-FSC Concurrence:

TROST.MARC.W.1086
281682

Digitally signed by
TROST.MARC.W.1086281682
Date: 2018.03.09 09:52:57 -06'00'

03/09/2018

MARC W. TROST, GS-15

Date

Senior Restoration Attorney

Environmental Law Field Support Center, Restoration Branch

Air Force Legal Operations Agency

Table of Contents

LIST OF ABBREVIATIONS & ACRONYMS	2
I. INTRODUCTION	3
FIVE-YEAR REVIEW SUMMARY FORM	4
II. RESPONSE ACTION SUMMARY	5
Status of Implementation	6
Institutional Controls	6
Systems Operations/Operation & Maintenance	7
III. PROGRESS SINCE THE LAST REVIEW	7
IV. FIVE-YEAR REVIEW PROCESS	8
Community Notification and Involvement	8
Data Review	8
Site Inspection	9
V. TECHNICAL ASSESSMENT	9
QUESTION A: Is the remedy functioning as intended by the decision documents?	9
QUESTION B: Are the exposure assumptions, toxicity data, cleanup levels, and remedial action objectives (RAOs) used at the time of the remedy selection still valid?	10
QUESTION C: Has any other information come to light that could call into question the protectiveness of the remedy?	12
VI. ISSUES/RECOMMENDATIONS	12
OTHER FINDINGS:	12
VII. PROTECTIVENESS STATEMENT	13
VIII. NEXT REVIEW	13
 APPENDIX A – REFERENCE LIST	 14
APPENDIX B – SITE MAPS	15
APPENDIX C – SITE CHRONOLOGY	18
APPENDIX D – CONTAMINANTS OF CONCERN	19
APPENDIX E – HISTORY OF INORGANIC COC MONITORING RESULTS AT WELLS MW06, MW8A, MW9A	21
APPENDIX F – PUBLIC AND STATE REGULATORY AGENCY NOTIFICATIONS	23
APPENDIX G – FIVE-YEAR REVIEW SITE INSPECTION CHECKLIST	27

LIST OF ABBREVIATIONS & ACRONYMS

ARARs	Applicable or Relevant and Appropriate Requirements
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
COC	Contaminant of Concern
EOD	Explosive Ordnance Disposal
FFA	Federal Facility Agreement
FS	Feasibility Study
FYR	Five-Year Review
HRL	Health Risk Limit
IC	Institutional Control
MCL	Maximum Contaminant Level
MPCA	Minnesota Pollution Control Agency
MW	Monitoring Well
NCP	National Oil and Hazardous Substances Pollution Contingency Plan
NPL	National Priorities List
O&M	Operation and Maintenance
RAL	Recommended Allowable Limit
ROD	Record of Decision
RPM	Remedial Project Manager
RI	Remedial Investigation
SARL	Small Arms Range Landfill
TBC	To be considereds
USAF	United States Air Force
USAFR	United States Air Force Reserve
USEPA	United States Environmental Protection Agency
VOC	Volatile Organic Compound
934 AW	934th Airlift Wing

I. INTRODUCTION

The purpose of a Five-Year Review (FYR) is to evaluate the implementation and performance of a remedy in order to determine if the remedy is and will continue to be protective of human health and the environment. The methods, findings, and conclusions of reviews are documented in FYR reports such as this one. In addition, FYR reports identify issues found during the review, if any, and document recommendations to address them.

This FYR was conducted pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Section 121(c), consistent with the National Contingency Plan (NCP)(40 CFR Section 300.430(f)(4)(ii)).

This is the fifth FYR for the “Twin Cities Air Force Reserve Base, Small Arms Range Landfill” (SARL), a former National Priorities List (NPL) site located on the Snelling Small Arms Range Annex property of the Minneapolis-St. Paul International Airport Air Reserve Station. The triggering action for this statutory review is the completion date of the previous FYR. The FYR has been prepared because the selected remedial action for the site resulted in hazardous substances, pollutants, or contaminants remaining at the site above levels that allowed for unlimited use and unrestricted exposure.

The Site consists of one (1) Operable Unit (OU), addressing the groundwater remedy.

The SARL Site FYR was led by Douglas Yocum, 934th Airlift Wing (934 AW), United States Air Force Reserve (USAFR). The United States Environmental Protection Agency (USEPA) Region 5 Remedial Project Manager (RPM) for the site, Thomas Barounis, participated in a site inspection. Groundwater sampling, laboratory analysis, and monitoring well condition evaluations were accomplished by Braun Intertec Corporation. The review began on 5/30/2017.

Site Background

The SARL site is a two-acre site located on a federally-owned property known as the Snelling Small Arms Range Annex. This property is a geographically-separated unit of the Minneapolis-St. Paul International Airport Air Reserve Station (referred to as the “Twin Cities Air Force Reserve Base” in various site documents). The 934 AW, USAFR, has control and oversight of the Snelling Small Arms Range Annex property, including the SARL site. The property is south-southeast of the Minneapolis-St. Paul International Airport, and is bordered by Fort Snelling State Park to the north; the Minnesota River to the east; Interstate 494 and the Minnesota Valley National Wildlife Refuge to the south; and Minnesota Highway 5 to the west. Between the SARL and the Minnesota River, the Metropolitan Airports Commission maintains a storm water retention basin (South Retention Basin #3, 494 Pond) on Air Force property. There is no residential property located within a one mile radius of the SARL.

A location map and site map are presented in Appendix B, Figures 1 and 2, respectively.

The property on which the SARL is located was acquired by the United States Air Force (USAF) in 1951. The SARL site was used as an unpermitted landfill/dump site for approximately nine years (1963 to 1972). General refuse and industrial wastes formed the bulk of waste materials deposited and burned at the SARL during that period. The site was unused from 1972 until 2011. Since 2011, the site has been used as an “Off-Range Training Area,” for the 934 AW’s Explosive Ordnance Disposal (EOD) Flight. The term “off-

range training” refers specifically to procedural training simulating identification and isolation of explosive ordnance in an emergency response situation, as well as training on procedures used to prepare for the safe destruction of explosive ordnance. Off-range training consists exclusively of simulation; it does not include any true disposal or destruction of actual ordnance. Future land use of the site is anticipated to remain the same as long as the property remains under USAF ownership and control.

The selected remedy for the SARL consisted of natural attenuation of groundwater contamination, access restrictions, site maintenance and monitoring, and institutional controls (ICs).

FIVE-YEAR REVIEW SUMMARY FORM

SITE IDENTIFICATION		
Site Name: Twin Cities Air Force Reserve Base Small Arms Range Landfill (SARL)		
EPA ID: MN8570024275		
Region: 5	State: MN	City/County: Fort Snelling Unorganized Territory, Hennepin County
SITE STATUS		
NPL Status: Deleted		
Multiple OUs? No	Has the site achieved construction completion? Yes	
REVIEW STATUS		
Lead agency: Other Federal Agency <i>[If “Other Federal Agency”, enter Agency name]:</i> U.S. Air Force		
Author name (Federal or State Project Manager): Douglas Yocum		
Author affiliation: 934th Airlift Wing, U.S. Air Force Reserve		
Review period: 5/30/2017 - 10/17/2017		
Date of site inspection: 10/17/2017		
Type of review: Statutory		
Review number: 5		
Triggering action date: 4/25/2013		
Due date (five years after triggering action date): 4/25/2018		

II. RESPONSE ACTION SUMMARY

The SARL was initially identified as a possible hazardous waste site in 1983, through the Air Force's Phase I Installation Restoration Program Records Search. Ensuing preliminary studies indicated the presence of low concentrations of groundwater contaminants, possibly migrating from the SARL. Based on those preliminary studies, the site was placed on the NPL in 1987. A remedial investigation (RI) was conducted in 1988 and 1989 to further characterize the site and obtain data necessary for an evaluation of remedial alternatives. The RI determined that depth of the landfilled waste material at the site was approximately 10 to 12 feet below ground surface, and indicated that low levels of inorganic contaminants had been released from the SARL to soil and groundwater.

A Federal Facility Agreement (FFA) signed by USAF and USEPA in 1989 established the procedural framework for remedial action at the site. A feasibility study (FS) was completed in 1991, and a Record of Decision (ROD) was signed by the USAF and USEPA in 1992, selecting the FS preferred alternative of natural attenuation of groundwater contamination, access restrictions, site maintenance and monitoring, and ICs. The purpose of the remedy selected in the ROD was to prevent risk to human health and the environment through direct contact with landfill contaminants and to prevent risk from exposure to contaminants in the groundwater. Minnesota Pollution Control Agency (MPCA) concurred with the ROD. Contaminants of concern (COCs) identified in the 1992 ROD are listed by media type in Appendix D.

The ROD documented that the RI included a "baseline risk assessment", in which human health risks were estimated for existing site conditions and for future development scenarios, and an ecological assessment of biotic resources at the site and within one mile of the site to qualitatively assess environmental risks. The baseline risk assessment for site conditions indicated no complete pathways of human exposure existed at the site, and therefore, no current risks existed. Air, soil, groundwater, and surface water pathways were not complete because of the lack of release of volatile organic compounds (VOCs), lack of surficial soil contamination, the location of the site within a semi-restricted area, limited access to the stormwater pond, no significant surface water contamination, and no users of shallow groundwater on-site or downgradient of the site. Baseline risks were also calculated for hypothetical future residential use of the site. The ROD indicated that the preferred alternative would eliminate the possibility of future residents on this site, thus eliminating the potential for completion of exposure pathways included in the baseline risk assessment, and would therefore protect human health.

Potential risks to the environment were identified as primarily from contact by fauna with landfill materials, or transport of contaminants to receiving surface water bodies by erosion or groundwater discharge. Ecological assessment at the site and within a mile of the site indicated that the remedy was expected to be protective of flora and fauna, as well as human health.

The ROD prescribed monitoring of site groundwater and surface water quality for a minimum two-year period. It also established Contaminant-Specific Applicable or Relevant and Appropriate Requirements (ARARs) for the site as federal drinking water Maximum Contaminant Levels (MCLs) and State of Minnesota Recommended Allowable Limits (RALs) for groundwater COCs, and Federal Ambient Water Quality Criteria for surface water COCs. Contaminant-Specific ARARs are listed in Appendix D. Contaminant-Specific ARARs were not established for soil COCs. The ROD did not identify either Location-Specific ARARs or Action-Specific ARARs. No removal actions were prescribed or performed at the site.

Status of Implementation

Site access restrictions specified in the ROD were installed in 1992, including access control via fencing with locked gates around the entire site, and warning signs.

Monitoring of site groundwater and surface water quality occurred during 1993-1994, followed by additional rounds of groundwater monitoring in 1995. In 1996, the SARL was deleted from the NPL.

Monitoring of groundwater VOCs and semi-volatile organic compounds, and monitoring of surface water in the retention pond adjacent to the SARL were discontinued after the third FYR, due to consistent, long-term attainment of ARARs for those COCs.

Institutional Controls

The 1992 ROD documented only one IC, as follows:

“The deed restrictions required by CERCLA, Section 120 (h) (3) will be implemented at the time the property is placed under the ownership of a person or other entity of federal government because a deed does not currently exist for the property.” (ROD, Declaration, Description of the Remedy)

“Other restrictions to be imposed will be institutional, such as deed restrictions limiting future development of this site, if the property is relinquished by the USAF, and deed restrictions limiting future groundwater usage. These deed restrictions will be imposed in the eventuality that USAF releases the property once a deed is prepared. Additionally, all requirements of Section 120 of CERCLA for notification and deed notation will be met. These requirements are imposed on federal facilities relinquishing property on which hazardous substances were stored for more than 1 year or where they were disposed of or released. Included in the requirements is provision of a description of hazardous substances stored, disposed of, or released, the general time frame of the activity, and the type and quantity of materials. Any remedial action taken on the site is also to be described. The Air Force must also warrant in the deed notation that remedial action necessary to protect public health and the environment has been taken and any additional remedial action found to be necessary in the future will be conducted by the federal government.” (ROD, Decision Summary, Description of the Selected Remedy)

The property on which the SARL is located has been under continuous federal government ownership since acquisition by the United States Army in 1905, and currently remains in federal government ownership with administration and control under the USAF. No deed exists for the property. Release or transfer of the property out of USAF control is neither planned nor forecasted at this time. To ensure that the ICs prescribed for the SARL remain known to future USAF personnel and are considered in any land use planning or real property disposal decisions concerning the SARL, copies of the ROD and 1989 FFA between USAF and USEPA have been incorporated into the installation's physical Real Property file for the Snelling Small Arms Range Annex property on which the SARL is located. The requirement to implement deed restrictions, limiting future development and groundwater usage if the property is ever placed under the ownership of a person or other entity of federal government, is also annotated within the USAF “Automated Civil Engineer System-Real Property” database record for the property. Additionally, the requirement for a deed restriction limiting future development and groundwater usage if the property is ever excessed by the USAF has been documented in formal installation planning documents since 2007, including the “*Minneapolis-St. Paul Air Reserve Station Installation Development Plan*” prepared in 2015.

Status of Access Restrictions and ICs: Access controls, in the form of fencing and warning signs, are in place at the SARL. As prescribed in the ROD, the IC for a deed restriction limiting future development of this site and limiting future groundwater usage, will be imposed in the event that the USAF releases the property once a deed is prepared.

Current Compliance: Existing access controls, along with regular site patrol by USAF security personnel, are effective measures to limit public access to the SARL. There are no drinking water wells installed within the groundwater restricted area, nor are there any site uses which are inconsistent with management of the site in a manner that restricts public access to the former landfill area. The access restrictions and ICs are functioning as intended.

IC Follow up Actions Needed: Not applicable.

Long Term Stewardship: Long term protectiveness at the site requires compliance with land and groundwater use restrictions. Compliance with effective ICs will be ensured through long-term stewardship by maintaining and monitoring effective ICs as well as maintaining the site remedy components. The requirement for continued periodic inspections and site maintenance was generally stated in the Superfund Final Closeout Report, Twin Cities Air Force Reserve Base Small Arms Landfill, NPL #054L, Section V, USEPA, August 29, 1996. The frequency of “periodic” inspections was not specified. USAF will continue to conduct site maintenance activities, and document an annual evaluation of site conditions for the SARL, as long as the property remains in federal ownership and under USAF control. USAF will notify USEPA and MPCA if any situation or activity is discovered that is inconsistent with the IC objectives or use restrictions, or that would interfere with the land use controls. Also, USAF will notify USEPA and MPCA of any anticipated changes in land use or property ownership.

Systems Operations/Operation & Maintenance

The remedy for the SARL does not include any operating systems other than access controls, and monitoring wells used during FYRs. Operation and maintenance (O&M) for the SARL site consists of: a) an annual site inspection to assess the integrity of the fence and the cover above the landfill materials, and identify any needed repairs; and b) as-needed maintenance of the monitoring wells.

III. PROGRESS SINCE THE LAST REVIEW

The last FYR included a determination of protectiveness for the remedial actions, concluding with the following “protectiveness statement”:

ICs for the site property and groundwater, which are required to ensure no inappropriate use of the site or use of groundwater, are in-place and effective. The remedy is functioning as intended because no inappropriate site uses are occurring, and no groundwater use is occurring. Long term protectiveness requires compliance with effective ICs. Compliance with effective ICs will be ensured through long-term stewardship by maintaining and monitoring effective ICs as well as maintaining the site remedy components. Because the remedial actions at the SARL are protective, the site is protective of human health and the environment.

There were no issues and recommendations in the last FYR.

IV. FIVE-YEAR REVIEW PROCESS

Community Notification and Involvement

Appendix F contains a copy of the letter used to inform MPCA of the FYR. A copy of the draft FYR report was subsequently provided to MPCA for review. Limited comments from MPCA were received via email on 02/05/2018, concerning notifications to MPCA. This FYR accomodates those comments.

A public notice was published in the Minneapolis Star-Tribune newspaper on 10/22/2017, announcing preparation of this FYR. The notice identified the 934 AW point of contact for more information about the review process; provided an opportunity to request inclusion on a distribution list for receiving a copy of the draft version of this report; and invited public participation through reviewing and commenting on the draft report. The notice also appeared on the Star-Tribune on-line website from 10/22 – 10/28/2017. A copy of the public notice and Affidavit of Publication are provided in Appendix F. As of 01/31/2018, no telephonic, email or written inquiries or responses of any kind were received from the public.

Data Review

Groundwater sampling was conducted at the three remaining monitoring wells (MW06, MW8A, MW9A) during May 2017. The condition of each of the three wells was evaluated in conjunction with this monitoring event. All well casings and surface seals were visually observed to be in good condition. Groundwater samples were analyzed for the twelve groundwater inorganic COCs. Results are presented below, followed by a brief discussion of results from each well.

<u>Inorganic COC</u>	<u>ARAR (µg/L)</u>	<u>MW06 Result (µg/L)</u>	<u>MW8A Result (µg/L)</u>	<u>MW9A Result (µg/L)</u>
Arsenic	10	0.9	0.7	3.3
Beryllium	0.08	Not detected	Not detected	Not detected
Cadmium	0.5	Not detected	Not detected	Not detected
Chromium	100	4.7	Not detected	Not detected
Copper	1300	Not detected	Not detected	Not detected
Lead	15	Not detected	Not detected	Not detected
Mercury	2	Not detected	Not detected	Not detected
Nickel	100	8.8	87.2	1.0
Selenium	30	Not detected	4.3	Not detected
Silver	30	Not detected	Not detected	Not detected
Vanadium	50	Not detected	0.09	Not detected
Zinc	2000	Not detected	Not detected	Not detected

Monitoring Well MW06: MW06 is a side-gradient well that was identified as the background monitoring well in 1994. The 2017 results do not indicate any trend of contaminant increase. Three of twelve COCs were detected during the 2017 monitoring event, all below ARARs, which is consistent with results in the previous FYRs.

Monitoring Well MW8A: MW8A is a down-gradient shallow aquifer well. The 2017 results do not indicate any trend of contaminant increase. Four of twelve COCs were detected during the 2017 monitoring event, all below ARARs. Notably, nickel, which had been the single contaminant above its ARAR during three preceding FYRs, declined to a concentration below its ARAR in 2017.

Monitoring Well MW9A: MW9A is a down-gradient shallow aquifer well. The 2017 results do not indicate any trend of contaminant increase. Two of twelve COCs were detected during the 2017 monitoring event, all below the ARARs, which is consistent with results in the previous FYRs.

A history of monitoring results for inorganic COCs at these three site wells is presented in Appendix E.

Site Inspection

An inspection of the Site was conducted on 10/17/2017. In attendance were Thomas Barounis, USEPA Region 5 RPM for the site, and Douglas Yocum, Environmental Manager for the 934 AW, USAFR. The purpose of the inspection was to assess the protectiveness of the remedy. A “Site Inspection Checklist”, derived from USEPA’s “Comprehensive Five-Year Review Guidance” (OSWER No. 9355.7-03B-P), is provided as Appendix G.

V. TECHNICAL ASSESSMENT

QUESTION A: Is the remedy functioning as intended by the decision documents?

Question A Summary:

Yes. The remedy is functioning as intended with regard to ICs. The soil cover over the former waste areas remains intact, and access to the site continues to be restricted. The site remains under the control of USAF, and USAF has documented the requirement for deed restrictions in the event of property transfer to another owner.

Remedial Action Performance:

Remedial actions continue to function as designed. Natural attenuation of groundwater contaminants is performing as expected, and previously achieved cleanup levels are predominantly being maintained. Site access restrictions are in place and are being maintained. In summary, data gathered during this FYR indicates that, overall, the remedy continues to function as designed and is performing as expected.

An opportunity exists to reduce costs of monitoring and sampling, with no detriment to the site remedy. Groundwater sampling and analysis at the site could be discontinued, and the three remaining monitoring wells (MW06, MW8A, and MW9A) could be abandoned and sealed in accordance with state code. The rationale for abandonment and sealing of these wells is the consistent, long-term attainment of ARARs for groundwater inorganic COCs at the site. Although sporadic results above the original ARARs for various inorganic COCs have been documented over the twenty-five years of site monitoring since the Record of Decision (ROD), the data does not indicate that consideration of additional remedial actions for the site is warranted. There appears to be no potential for further improvement in remedy effectiveness to be gained from continuing groundwater monitoring for future FYRs.

System Operations/O&M:

The remedy for the SARL does not include any “operating systems” other than access controls, and monitoring wells used during FYRs. O&M for the SARL site consists of: a) an annual site inspection to assess the integrity of the fence and the cover above the landfill materials, and identify any needed repairs; and b) maintenance of the monitoring wells. The site inspection conducted during 2017 concluded that integrity has been adequately maintained for the soil covering the site and the fence surrounding the site. The condition of each of the three remaining monitoring wells was evaluated in conjunction with the 2017 monitoring event. The wells were observed to be in good condition.

Implementation of Institutional Controls and Other Measures:

Access controls, in the form of fencing and warning signs, remain in place at the site. IC evaluation activities conducted by USAF have determined that the ICs are in-place and effective. The objective(s) of the ICs (e.g. prohibit interference with the landfill soil cap, prohibit residential use, and restrict groundwater use at the site) are being met. These controls, along with the continued USAF control of the property on which the SARL is located and regularly scheduled inspections of the site, are effective measures to limit public access to the site and to maintain the integrity of the remedy.

QUESTION B: Are the exposure assumptions, toxicity data, cleanup levels, and remedial action objectives (RAOs) used at the time of the remedy selection still valid?

Question B Summary:

Yes. Exposure assumptions and remedial action objectives used at the time of the remedy remain valid. Cleanup levels (i.e., ARARs delineated in the ROD) are still valid, even though Minnesota has promulgated different (mostly higher) cleanup levels since the time of the ROD.

Changes in Standards and TBCs:

Minnesota RALs specified in the ROD have been replaced by promulgated Health Risk Limits (HRLs). The HRLs for nickel, selenium, silver, vanadium and zinc are all higher than corresponding RALs in effect at the time of the ROD in 1992. The HRL for cadmium is lower than the RAL in effect in 1992. There is no HRL for arsenic, chromium, copper, lead, or mercury. Federal drinking water MCLs have been reduced for arsenic (from 50 µg/L to 10 µg/L) and beryllium (from 5 µg/L to 4 µg/L). Although the Federal MCL for beryllium was lowered, the 1992 ROD set the then-current RAL of 0.08 µg/L as the cleanup level for beryllium. The net effect of these changes is that the current HRLs for groundwater inorganic COCs for the site are equal or greater than the ARARs established in 1992, with the single exception of cadmium. The increased stringency of the HRL for cadmium does not impact protectiveness, because there have been no detectable cadmium results in the remaining three wells since 1997. To Be Considered Criteria were not identified in the ROD for the SARL.

Changes in Toxicity and Other Contaminant Characteristics:

Based on a review of toxicity data in the USEPA Integrated Risk Information System as of July 2017, toxicity factors for the COCs have not changed in any way that could affect the protectiveness of the remedy. There was no data indicating that there have been any changes in

the understanding or knowledge of other contaminant physical or chemical characteristics (e.g., sorption characteristics, ability to bioaccumulate, bioavailability).

Changes in Risk Assessment Methods:

Standardized risk assessment methods have not changed in any way that could affect the protectiveness of the remedy.

Changes in Exposure Pathways:

The 1992 ROD documented that a baseline risk assessment indicated that air, soil, groundwater, and surface pathways were not complete because of the lack of release of VOCs, lack of surficial soil contamination, site location within a semi-restricted area, limited access to the storm water pond, no significant surface water contamination, and no current users of groundwater at the site or down-gradient of the site. As part of the selected remedy, a fence was constructed around the site in 1992 to limit public access to the landfill and storm water pond. There have been no changes in the potential exposure pathways at the site since the implementation of the remedy for the site. The site remains restricted from public access, with fencing and locked gates in place. In 2011, the 934 AW EOD Flight began use of the SARL area for “Off-Range Training.” These training operations do not involve any excavation below the soil cover. A 2400-square foot concrete slab in place on the surface of the landfill area further diminishes any potential for contact with landfill components.

Expected Progress Towards Meeting RAOs:

Two remedial action objectives were established in the ROD: 1) Prevent risk to humans or the environment through direct contact with landfill contaminants, and 2) prevent risk to humans or environmental receptors from contaminants in groundwater. The selected remedy addressed these objectives by limiting contact with landfill contaminants through access restrictions and deed restrictions; and reducing risks from groundwater contaminants through natural attenuation and deed restrictions.

Achievement of the first objective was documented in the August 1996 Superfund Final Closeout Report for the site. Fencing and warning signs installed at the site remain in place. Regularly scheduled inspections of the site are conducted to confirm the adequacy of the fence condition, and to ensure that landfill components do not become exposed from erosive action by wind or surface runoff. To date, erosion of the soil cover has not been observed on the SARL site, and landfill components have not become exposed.

Achievement of the second objective was also documented in the August 1996 Superfund Final Closeout Report for the site. This determination was based on the results of groundwater and surface water monitoring conducted over a two year monitoring period. Subsequent monitoring conducted in 1997, 2002, 2007, and 2012 for the previous FYRs confirmed that natural attenuation had been an effective remedial agent. During monitoring conducted in 2017 for use in this FYR, groundwater COC results were all lower than the ARARs.

Regarding deed restrictions, the ROD specified that the deed restrictions required by CERCLA Section 120 (h)(3) must be implemented if the property is placed under the ownership of a person or other entity of federal government, because a deed does not currently exist for the property. The property currently remains under federal government ownership, with administration and control

by USAF. Documentation of the requirement for deed restrictions has been incorporated into USAF Real Property records and information management systems, and deed restrictions would be implemented in the event of future release or transfer of the property out of USAF control.

Considering the access restrictions that continue to remain in place, site maintenance, monitored results of ongoing natural attenuation, and documented requirements for future deed restrictions in the event of property transfer, the remedy for the site continues to perform as expected.

QUESTION C: Has any other information come to light that could call into question the protectiveness of the remedy?

No. No new information has come to light that could call into question the protectiveness of the remedy. The SARL has not been inundated by flood waters during the period since the previous FYR. Although significant flooding of the Minnesota River occurred in June 2014, the SARL was above the flood crest. There have been no impacts from any other natural disasters, and no known site changes or vulnerabilities that may be related to climate change impacts (e.g., sea level rise, changes in precipitation, increasing risk of floods, changes in temperature, increasing intensity of hurricanes and increasing wildfires, melting permafrost in northern regions, etc.) not apparent during remedy selection, implementation or O&M.

VI. ISSUES/RECOMMENDATIONS

No issues nor recommended actions affecting the protectiveness of the remedy were identified during this FYR.

OTHER FINDINGS:

The following recommendation was identified during the FYR and may reduce costs, but does not negatively affect current nor future protectiveness:

Groundwater sampling and analysis at the site could be discontinued, and the three remaining monitoring wells (MW06, MW8A, and MW9A) could be abandoned and sealed in accordance with state code. ARARs have been consistently been achieved for 11 of the 12 inorganic COCs since 1997. The lone exception, nickel at MW8A, has declined since 2007 and achieved its ARAR in 2017. There appears to be no potential for further improvement in remedy effectiveness to be gained from continuing groundwater monitoring for future FYRs. If the monitoring wells are abandoned, USEPA and MPCA should be notified, and a copy of the well sealing records should be provided to MPCA as requested.

VII. PROTECTIVENESS STATEMENT

Sitewide Protectiveness Statement	
<i>Protectiveness Determination:</i> Protective	
<i>Protectiveness Statement:</i> The remedy at the SARL Site is protective of human health and the environment. The remedy is functioning as intended. Natural attenuation of groundwater contaminants is performing as expected. Access controls, in the form of fencing and warning signs, remain in place at the site. Inappropriate site use is not occurring, nor is groundwater use occurring. Documentation has been incorporated into USAF Real Property records and information management systems to ensure deed restrictions prevent future inappropriate site use and groundwater use, in the event of release or transfer of the property out of USAF control.	

VIII. NEXT REVIEW

The next FYR report for the SARL Site is required no less than five years from the signature date of this review.

APPENDIX A

REFERENCE LIST

Federal Facilities Agreement Under CERCLA Section 120, Small Arms Range Landfill;
Minneapolis-St. Paul International Airport Base; November 6, 1989

Record of Decision, Small Arms Range Landfill, Minneapolis-St. Paul International Airport; Air
Force Reserve; March 31, 1992

Superfund Final Close-Out Report, Twin Cities Air Force Reserve Base, Small Arms Range Landfill,
NPL #054L; Minneapolis-St. Paul International Airport, Minnesota, USEPA; August 29, 1996

Comprehensive Five-Year Review Guidance; USEPA, Office of Emergency and Remedial Response,
EPA 540-R-01-007, OSWER No. 9355.7-03B-P; June 2001

Situation Assessment, Twin Cities Air Force Reserve Base Small Arms Range Landfill; USEPA
Region 5, Chicago, Illinois; June 2010

Recommended Evaluation of Institutional Controls: Supplement to the “Comprehensive Five-Year
Review Guidance”; USEPA, OSWER Directive 9355.7-18; September 13, 2011

Fourth Five-Year Review Report for Twin Cities Air Force Reserve Base, Small Arms Range
Landfill, Minneapolis, Minnesota; 934th Airlift Wing, U.S. Air Force Reserve, Minneapolis-St. Paul
International Airport Air Reserve Station, Minnesota; April 25, 2013

Groundwater Monitoring at Small Arms Range Landfill, Minneapolis-St. Paul Air Reserve Station,
Minneapolis, Minnesota; Braun Intertec Corporation, Minneapolis, Minnesota; June 30, 2017

APPENDIX B

SITE MAPS

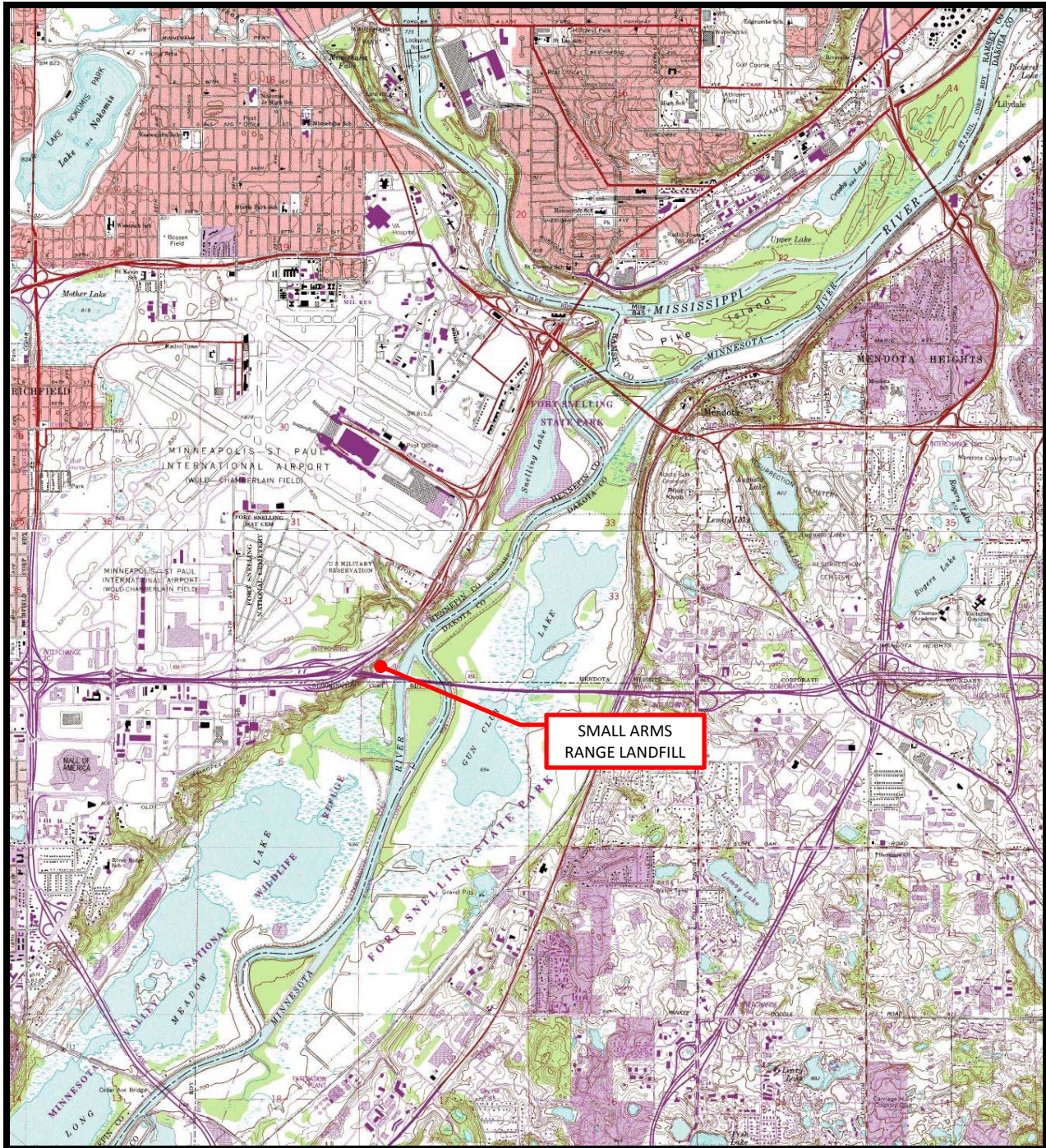


FIGURE 1 – LOCATION MAP

SMALL ARMS RANGE LANDFILL

**Snelling Small Arms Range Annex
Minneapolis-St. Paul International Airport Air Reserve Station
Hennepin County, Minnesota**



Composite from U.S.
Geological Survey 7.5
Minutes Series,
St. Paul West and
St. Paul SW Quadrangles

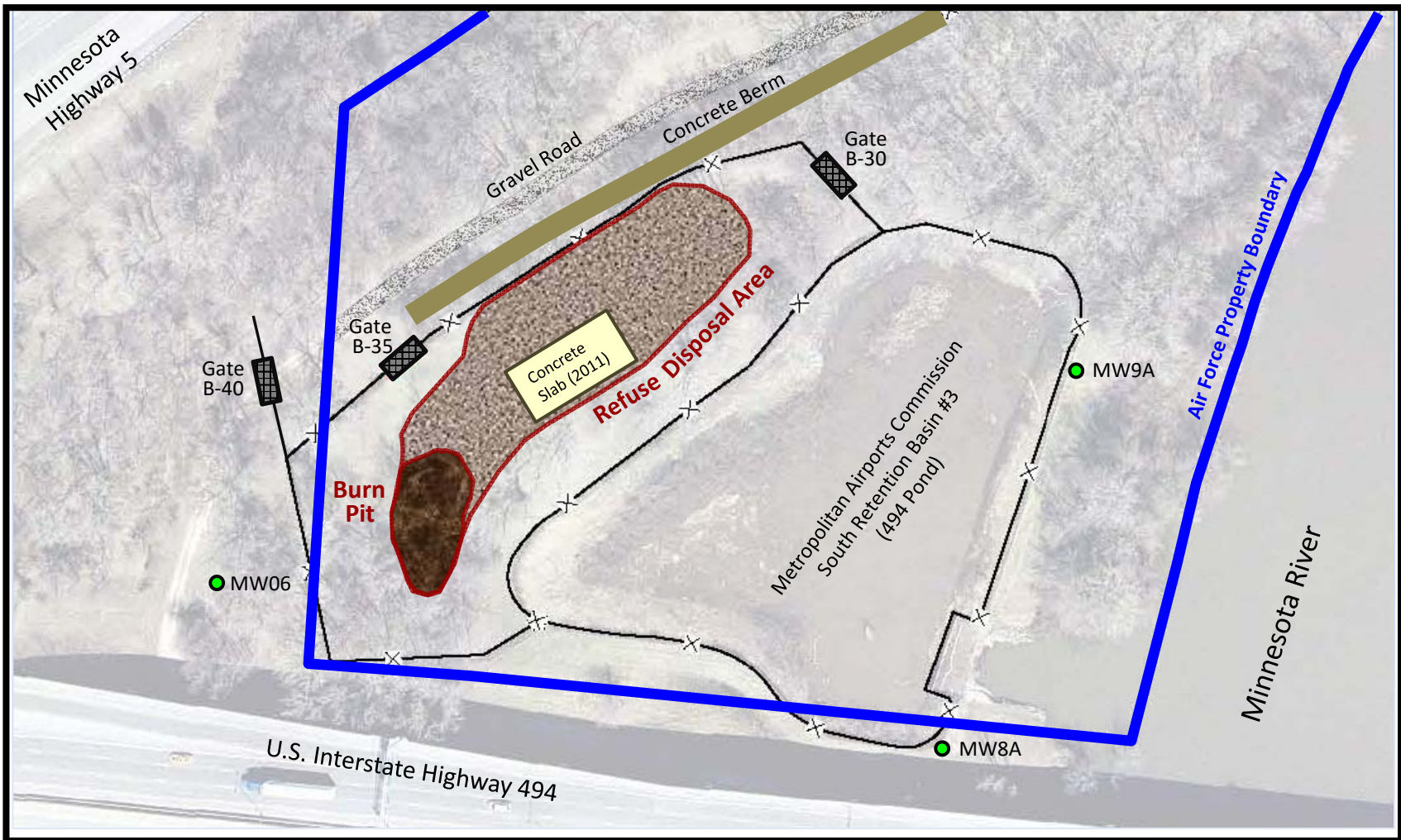
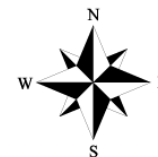


FIGURE 2 – SITE MAP

SMALL ARMS RANGE LANDFILL

Snelling Small Arms Range Annex
 Minneapolis-St. Paul International Airport Air Reserve Station
 Hennepin County, Minnesota



LEGEND

- Monitoring Well
- X — Security Fence
- Locked Gate

APPENDIX C

SITE CHRONOLOGY

Date	Event
3/31/1983	Phase I Installation Restoration Program Records Search
7/22/1987	National Priorities List Listing
11/06/1989	Federal Facility Agreement
11/28/1989	Minnesota Request for Response Action
3/31/1992	Remedial Investigation/Feasibility Study complete
3/31/1992	Record of Decision signature
4/01/1992	Remedial Design start
8/25/1992	Remedial Design complete
8/31/1992	Remedial Action start
9/24/1992	Remedial Action complete/Preliminary Close-out
8/29/1996	Final Closeout Report
12/16/1996	Deletion from National Priorities List
4/02/1998	First Five-Year Review
6/30/1998	Deletion from Minnesota Permanent List of Priorities
7/31/2003	Second Five-Year Review
1/29/2008	Sitewide Ready for Anticipated Use Determination
7/28/2008	Third Five-Year Review
4/25/2013	Fourth Five-Year Review

APPENDIX D

CONTAMINANTS OF CONCERN

Groundwater Contaminants of Concern and Applicable or Relevant and Appropriate Requirements				
Contaminants	1992 ARARs		2017 ARARs	
	RAL ¹ (µg/L)	MCL ² (µg/L)	HRL ³ (µg/L)	MCL ⁴ (µg/L)
Inorganics				
Arsenic	0.2	50	—	10
Beryllium	0.08	5	0.08	4
Cadmium	4	5	0.5	5
Chromium	100	100	—	100
Copper ⁵	1000	1300	—	1300
Lead ⁵	20	15	—	15
Mercury	1	2	—	2
Nickel	70	—	100	—
Selenium	10	50	30	50
Silver	10	—	30	—
Vanadium	20	—	50	—
Zinc	700	—	2000	—
Volatile Organics				
Benzene	10	5	N/A	N/A
2-butanone (MEK)	300	—	N/A	N/A
1,2-dichloroethene (total)	70	70	N/A	N/A
Toluene	1000	1000	N/A	N/A
Trichloroethene	30	5	N/A	N/A
Semi-Volatile Organics				
Di-n-butylphthalate	700	—	N/A	N/A
¹ Minnesota RAL (as of 1992) ² USEPA MCL (as of 1992) ³ Minnesota HRL (as of 2017) ⁴ USEPA MCL (as of 2017) ⁵ Copper and Lead MCLs are “treatment technique action levels” — = No requirement established N/A = Not applicable; monitoring for VOCs/SVOC discontinued after the third five-year review				

Surface Water Contaminants of Concern and Applicable or Relevant and Appropriate Requirements		
Contaminants	1992 ARARs	
	Federal Water Quality Criteria Freshwater Acute Concentration ¹ (µg/L)	Minnesota Water Standards ² (µg/L)
Inorganics		
Beryllium	—	—
Iron	—	300
Lead	82	50
Silver	4.1	50
Vanadium	—	—
Zinc	700	2000
Volatile Organics		
Toluene	—	—
¹ ARARs Q's and A's; <i>Compliance with Federal Water Quality Criteria</i> . USEPA Office of Solid Waste and Emergency Response. June, 1990. (cited in 1992 ROD) ² Minnesota Water Standards, "Specific Standards of Quality and Purity for Designated Classes of Waters of the State." Minnesota Rules 7050:220, November 1990. (cited in 1992 ROD) — = No requirement established Surface water monitoring for the site was discontinued after the third five-year review.		

Soil Contaminants of Concern and Applicable or Relevant and Appropriate Requirements	
Contaminants	1992 ARARs
Inorganics	
Antimony	ARARs for soil contaminants were not established in the 1992 ROD
Arsenic	
Magnesium	
Nickel	
Selenium	
Volatile Organics	
2-butanone (MEK)	ARARs for soil contaminants were not established in the 1992 ROD

APPENDIX E

HISTORY OF INORGANIC COC MONITORING RESULTS AT WELLS MW06, MW8A, MW9A

[illegible]

APPENDIX F

**STATE REGULATORY AGENCY NOTIFICATION
AND
PUBLIC NOTICE**



DEPARTMENT OF THE AIR FORCE
AIR FORCE RESERVE COMMAND



20 September 2017

U.S. Air Force Reserve
934 MSG/CEV, Bldg 744
760 Military Highway
Minneapolis, MN 55450-2100

Minnesota Pollution Control Agency
Superfund/Brownfields Program
Attn: Gary Krueger
520 Lafayette Road
St. Paul, MN 55155-4194

RE: Five-Year Review, Twin Cities Air Force Reserve Base Small Arms Range Landfill Site

Dear Mr. Krueger,

This letter provides notice to the Minnesota Pollution Control Agency (MPCA) that a statutory Five-Year Review (FYR) is being performed for a former National Priorities List (NPL) site identified as the "Twin Cities Air Force Reserve Base – Small Arms Range Landfill Site", in accordance with Section 121 of the Comprehensive Environmental Response, Compensation, and Liability Act/Superfund Amendments and Reauthorization Act, and the National Contingency Plan (Code of Federal Regulations, Title 40, Section 300.430(f)(4)(ii)). This site was also formerly on the Minnesota Permanent List of Priorities (PLP) as Subsite 1 of the "Twin Cities Air Force Reserve Base Site," MPCA Site ID SR73 (350). The site was an unpermitted disposal site located on property owned by the U.S. Air Force in Hennepin County, Minnesota. It was deleted from the NPL in 1996, and from the Minnesota PLP in 1998.

This will be the fifth FYR for the site. The 934th Airlift Wing, U.S. Air Force Reserve, will prepare the FYR report. Prior to the last two FYRs, MPCA was offered the opportunity to review and comment on the draft reports. In each case, MPCA either declined to participate or did not respond. Although MPCA's participation is not required, we again extend the opportunity to participate in this review process. A draft report for this FYR is anticipated to be available by the end of November 2017. If MPCA would like to receive a copy of the draft report for review and comment, please notify me via e-mail to douglas.yocum@us.af.mil, or telephone (612-713-1955), or by letter.

YOCUM.DOUGLAS.S. Digitally signed by
1229106500 YOCUM.DOUGLAS.S.1229106500
Date: 2017.09.20 09:43:58 -05'00'

DOUGLAS S. YOCUM
Chief, Environmental Flight

Mortgage Foreclosures

17-107207 NOTICE OF MORTGAGE FORECLOSURE SALE

THE RIGHT TO VERIFICATION OF THE DEBT AND IDENTITY OF THE ORIGINAL CREDITOR WITHIN THE TIME PROVIDED BY LAW IS NOT AFFECTED BY THIS ACTION. NOTICE IS HEREBY GIVEN, that default has occurred in the conditions of the following described mortgage:

DATE OF MORTGAGE: June 1, 2006

ORIGINAL PRINCIPAL AMOUNT OF MORTGAGE: \$975,000.00

MORTGAGOR(S): Jeffrey D. Pattison and Martha V. Pattison, husband and wife

MORTGAGEE: Mortgage Electronic Registration Systems, Inc.

TRANSACTION AGENT: Mortgage Electronic Registration Systems, Inc.

MIN#: 1001337-0001431102-4

LENDER OR BROKER AND MORTGAGE ORIGINATOR STATED ON THE MORTGAGE: Countrywide Bank N.A.

SERVICER: New Penn Financial, LLC d/b/a Shellpoint Mortgage Servicing

DATE AND PLACE OF FILING: Filed August 8, 2006, Hennepin County Recorder, as Document Number 8842086

ASSIGNMENTS OF MORTGAGE: Assigned to: The Bank of New York Mellon FKA The Bank of New York as Trustee for the Certificateholders CVALT, Inc. Alternative Loan Trust 2006-0A16

Mortgage Pass-Through Certificates, Series 2006-0A16

LEGAL DESCRIPTION OF PROPERTY: Lot 7, Fagerness PROPERTY ADDRESS: 1973 Fagerness Point Road, Wayzata, MN 55391

PROPERTY IDENTIFICATION NUMBER: 1811723140008

COUNTY IN WHICH PROPERTY IS LOCATED: Hennepin

THE AMOUNT CLAIMED TO BE DUE ON THE MORTGAGE ON THE DATE OF THE NOTICE: \$1,135,204.04

THAT all pre-foreclosure requirements have been complied with; that no action or proceeding has been instituted at law or otherwise to recover the debt secured by said mortgage, or any part thereof;

PURSUANT, to the power of sale contained in said mortgage, the above described property will be sold by the Sheriff of said county as follows:

DATE AND TIME OF SALE: October 24, 2017, 10:00am

PLACE OF SALE: Sheriff's Main Office, Civil Division, Room 30, Court-house, 350 South Fifth St., Minneapolis, MN 55487

to pay the debt secured by said mortgage and taxes, if any, on said premises and the costs and disbursements, including attorneys fees allowed by law subject to redemption within 6 months from the date of said sale by the mortgagor(s) the personal representatives or assigns

THE TIME ALLOWED BY LAW FOR REDEMPTION BY THE MORTGAGOR, THE MORTGAGOR'S PERSONAL REPRESENTATIVES OR ASSIGNS, MAY BE REDUCED TO FIVE WEEKS IF A JUDICIAL ORDER IS ENTERED UNDER MINNESOTA STATUTES SECTION 582.032 DETERMINING, AMONG OTHER THINGS, THAT THE MORTGAGED PREMISES ARE IMPROVED WITH A RESIDENTIAL DWELLING OF LESS THAN FIVE UNITS, ARE NOT PROPERTY USED FOR AGRICULTURAL PRODUCTION, AND ARE ABANDONED.

Dated: August 30, 2017

THE BANK OF NEW YORK MELLON FKA THE BANK OF NEW YORK, AS TRUSTEE FOR THE CERTIFICATE-HOLDERS OF CVALT, INC., ALTERNATIVE LOAN TRUST 2006-0A16, MORTGAGE PASS-THROUGH CERTIFICATES, SERIES 2006-0A16 Assignee of Mortgage

SHAPIRO & ZIELKE, LLP, BY Lawrence P. Zielke - 125559 Diane F. Mach - 273788 Melissa L. B. Porter - 0337778 Randolph W. Dawdy - 2160X Gary J. Evers - 0134764 Tracy J. Halliday - 034610X Attorneys for Mortgagee Shapiro & Zielke, LLP 12550 West Frontage Road, Suite 200, Burnsville, MN 55337 (952) 831-4060

THIS IS A COMMUNICATION FROM A DEBT COLLECTOR

NOTICE OF POSTPONEMENT OF FORECLOSURE SALE

The above referenced sale scheduled for October 24, 2017, at 10:00 a.m., has been postponed to January 2, 2018, at 10:00 a.m. and will be held at sheriff's main address Civil Division, Room 30, Court-house, 350 South Fifth St., Minneapolis, MN 55487.

Unless the mortgage is reinstated under Minnesota Statute 580.30 or the property is redeemed under Minnesota Statute 580.23 the property must be vacated by July 2, 2018. If this date falls on a Saturday, Sunday or legal holiday, the date to vacate will be the next business day at 11:59 p.m.

THIS IS A COMMUNICATION FROM A DEBT COLLECTOR

Dated: October 19, 2017

THE BANK OF NEW YORK MELLON FKA THE BANK OF NEW YORK, AS TRUSTEE FOR THE CERTIFICATE-HOLDERS OF CVALT, INC., ALTERNATIVE LOAN TRUST 2006-0A16, MORTGAGE PASS-THROUGH CERTIFICATES, SERIES 2006-0A16 Assignee of Mortgage

SHAPIRO & ZIELKE, LLP, BY Lawrence P. Zielke - 125559 Diane F. Mach - 273788 Melissa L. B. Porter - 0337778 Randolph W. Dawdy - 2160X Gary J. Evers - 0134764 Tracy J. Halliday - 034610X 12550 West Frontage Road, Suite 200, Burnsville, MN 55337 (952) 831-4060

17-107207 Attorney for Assignee of Mortgage 10/22/17, Star Tribune

NOTICE OF MORTGAGE FORECLOSURE SALE

THE RIGHT TO VERIFICATION OF THE DEBT AND IDENTITY OF THE ORIGINAL CREDITOR WITHIN THE TIME PROVIDED BY LAW IS NOT AFFECTED BY THIS ACTION. NOTICE IS HEREBY GIVEN, that default has occurred in conditions of the following described mortgage:

DATE OF MORTGAGE: May 9, 2013

MORTGAGOR: Melchizedek L. Mauleon and Arnee T. Mauleon, husband and wife as joint tenants with rights of survivorship, and not as tenants in common

MORTGAGEE: U.S. Bank N.A.

DATE AND PLACE OF RECORDING: Filed July 10, 2013, Hennepin County Registrar of Titles, Document No. T05094727 on Certificate of Title No. 1370791.

ASSIGNMENTS OF MORTGAGE: NONE

Said Mortgage being upon Registered Land.

TRANSACTION AGENT: NONE

TRANSACTION AGENT'S MORTGAGE IDENTIFICATION NUMBER ON MORTGAGE: NONE

LENDER OR BROKER AND MORTGAGE ORIGINATOR STATED ON MORTGAGE: U.S. Bank N.A.

RESIDENTIAL MORTGAGE SERVICER: U.S. Bank National Association

MORTGAGED PROPERTY ADDRESS: 2750 Queensland Lane North, Plymouth, MN 55447

TAX PARCEL I.D. #: 19-118-22-43-0022

LEGAL DESCRIPTION OF PROPERTY: Lot 1, Block 5, Meadowood, Hennepin County, Minnesota

COUNTY IN WHICH PROPERTY IS LOCATED: Hennepin

ORIGINAL PRINCIPAL AMOUNT OF MORTGAGE: \$226,633.00

AMOUNT DUE AND CLAIMED TO BE DUE AS OF DATE OF NOTICE, INCLUDING TAXES, IF ANY, PAID BY MORTGAGEE: \$229,612.49

That prior to the commencement of this mortgage foreclosure proceeding Mortgagee/Assignee of

Mortgage Foreclosures

Mortgagee complied with all notice requirements as required by statute. That no action or proceeding has been instituted at law or otherwise to recover the debt secured by said mortgage, or any part thereof.

THE TIME ALLOWED BY LAW FOR REDEMPTION BY THE MORTGAGOR, THE MORTGAGOR'S PERSONAL REPRESENTATIVES OR ASSIGNS, MAY BE REDUCED TO FIVE WEEKS IF A JUDICIAL ORDER IS ENTERED UNDER MINNESOTA STATUTES SECTION 582.032 DETERMINING, AMONG OTHER THINGS, THAT THE MORTGAGED PREMISES ARE IMPROVED WITH A RESIDENTIAL DWELLING OF LESS THAN FIVE UNITS, ARE NOT PROPERTY USED FOR AGRICULTURAL PRODUCTION, AND ARE ABANDONED.

Dated: October 13, 2017

U.S. Bank National Association Mortgagee/Assignee of Mortgagee USSET, WEINGARDEN AND LIEBO, P.L.L.C.

Attorneys for Mortgagee/Assignee of Mortgage

4500 Park Glen Road #300 Minneapolis, MN 55416 (952) 925-6888

19-17-006450 FC

THIS IS A COMMUNICATION FROM A DEBT COLLECTOR.

Published in Star Tribune 10/22, 10/29, 11/5 11/12, 11/19, 11/26/17

PUBLIC NOTICE

NOTICE OF MORTGAGE FORECLOSURE SALE

THE RIGHT TO VERIFICATION OF THE DEBT AND IDENTITY OF THE ORIGINAL CREDITOR WITHIN THE TIME PROVIDED BY LAW IS NOT AFFECTED BY THIS ACTION. NOTICE IS HEREBY GIVEN: That default has occurred in the conditions of the following described mortgage:

DATE OF MORTGAGE: February 13, 1996

ORIGINAL PRINCIPAL AMOUNT OF MORTGAGE: \$116,000.00

MORTGAGOR(S): Margaret A. Berg, married to Craig E. Eichhorn

MORTGAGEE: Central Mortgage Corp.

SERVICER: Fifth Third Bank

LENDER: Central Mortgage Corp.

DATE AND PLACE OF FILING: Hennepin County Minnesota Recorder on June 14, 1996 as Document No. 6589857

ASSIGNED TO Old Kent Mortgage Company n/a/a Fifth Third Mortgage Company, successor by merger, dated 02/13/1996 recorded on 0 6/18/1996 as Document No. 659148

LEGAL DESCRIPTION OF PROPERTY: Lot 27, Block 9, Edenhurst, Hennepin County, Minnesota

PROPERTY ADDRESS: 5215 Portland Avenue, Suite, Minneapolis, MN 55417

PROPERTY I.D: 14-028-24-33-0087

COUNTY IN WHICH PROPERTY IS LOCATED: Hennepin

SHAPIRO & ZIELKE, LLP, BY Lawrence P. Zielke - 125559 Diane F. Mach - 273788 Melissa L. B. Porter - 0337778 Randolph W. Dawdy - 2160X Gary J. Evers - 0134764 Tracy J. Halliday - 034610X Attorneys for Mortgagee Shapiro & Zielke, LLP 12550 West Frontage Road, Suite 200, Burnsville, MN 55337 (952) 831-4060

THIS IS A COMMUNICATION FROM A DEBT COLLECTOR

NOTICE OF POSTPONEMENT OF FORECLOSURE SALE

The above referenced sale scheduled for October 24, 2017, at 10:00 a.m., has been postponed to January 2, 2018, at 10:00 a.m. and will be held at sheriff's main address Civil Division, Room 30, Court-house, 350 South Fifth St., Minneapolis, MN 55487.

Unless the mortgage is reinstated under Minnesota Statute 580.30 or the property is redeemed under Minnesota Statute 580.23 the property must be vacated by July 2, 2018. If this date falls on a Saturday, Sunday or legal holiday, the date to vacate will be the next business day at 11:59 p.m.

THIS IS A COMMUNICATION FROM A DEBT COLLECTOR

Dated: October 19, 2017

THE BANK OF NEW YORK MELLON FKA THE BANK OF NEW YORK, AS TRUSTEE FOR THE CERTIFICATE-HOLDERS OF CVALT, INC., ALTERNATIVE LOAN TRUST 2006-0A16, MORTGAGE PASS-THROUGH CERTIFICATES, SERIES 2006-0A16 Assignee of Mortgage

SHAPIRO & ZIELKE, LLP, BY Lawrence P. Zielke - 125559 Diane F. Mach - 273788 Melissa L. B. Porter - 0337778 Randolph W. Dawdy - 2160X Gary J. Evers - 0134764 Tracy J. Halliday - 034610X 12550 West Frontage Road, Suite 200, Burnsville, MN 55337 (952) 831-4060

17-107207 Attorney for Assignee of Mortgage 10/22/17, Star Tribune

NOTICE OF MORTGAGE FORECLOSURE SALE

THE RIGHT TO VERIFICATION OF THE DEBT AND IDENTITY OF THE ORIGINAL CREDITOR WITHIN THE TIME PROVIDED BY LAW IS NOT AFFECTED BY THIS ACTION. NOTICE IS HEREBY GIVEN: That default has occurred in the conditions of the following described mortgage:

DATE AND TIME OF SALE: November 6, 2017 at 10:00 AM

PLACE OF SALE: Hennepin County Sheriff's Office-Civil Unit, Rm 30, Minneapolis City Hall, 350 South 5th Street, Minneapolis, MN 55415

to pay the debt then secured by said mortgage and taxes, if any actually paid by the mortgagee, on the premises and the costs and disbursements allowed by law. The time allowed by law for redemption by said mortgagor(s), their personal representatives or assigns is 6 months from the date of sale. If Mortgage is not reinstated under Minn. Stat. §580.30 or the property is not redeemed under Minn. Stat. § 580.23, the Mortgagor must vacate the property on or before 11:59 p.m. on May 6, 2018, or the next business day if May 6, 2018 falls on a Saturday, Sunday or legal holiday.

"THE TIME ALLOWED BY LAW FOR REDEMPTION BY THE MORTGAGOR, THE MORTGAGOR'S PERSONAL REPRESENTATIVES OR ASSIGNS, MAY BE REDUCED TO FIVE WEEKS IF A JUDICIAL ORDER IS ENTERED UNDER MINNESOTA STATUTES SECTION 582.032 DETERMINING, AMONG OTHER THINGS, THAT THE MORTGAGED PREMISES ARE IMPROVED WITH A RESIDENTIAL DWELLING OF LESS THAN FIVE UNITS, ARE NOT PROPERTY USED IN AGRICULTURAL PRODUCTION, AND ARE ABANDONED."

Dated: September 14, 2017

Fifth Third Mortgage Company

Randall S. Miller & Associates, PLLC

Attorneys for Assignee of Mortgage/

Canadian Pacific Plaza, 120 South Sixth Street, Suite 2050 Minneapolis, MN 55402 Phone: 952-232-0052

19-17-006450 FC

THIS IS A COMMUNICATION FROM A DEBT COLLECTOR.

Published in Star Tribune 9/17, 9/24, 10/1, 10/8, 10/15, 10/22/17

STATE OF MINNESOTA

COUNTY RAMSEY

DISTRICT COURT

SECOND JUDICIAL DISTRICT

COURT FILE NO. 62-CV-17-4459

ORDER TO SHOW CAUSE

In the Matter of the Petition of Federal National Mortgage Association for a New Certificate of Title After Mortgage Foreclosure Sale. In Relation to Certificate of Title No. 603111 and a new v certificate for the land therein described in favor of Federal National Mortgage Association, free of all the memorials now appearing on said cancelled certificate up to and including Doc. No. 2581737 and free of the memorial of this Order, except the Registrar of Titles shall carry forward the recital now appearing thereon.

Mortgage Foreclosures

IT IS FURTHER ORDERED that the Order be served: (a) at least 10 days prior to such hearing upon all of the above named parties residing in this State in the manner provided by law for the service of a summons; (b) if a Civil action is pending, by personal or to such hearing; (c) to any of the above named parties residing in this State by registered mail, return receipt, to each of such parties at his/her p office address; (c) upon any of the above named parties who cannot be found by two weeks published notice and at least 14 days prior to the hearing by sending a copy of this Order by First Class mail to each of such parties at his/her last known address and at his/her address as stated on the Certificate of Titles if his/her address is so stated; (d) upon a dissolved, withdrawn, or revoked business entity governed by Minn. Stat. Chp. 302.03, 317A, 322A, 322B, or 323 in the manner provided by Minn. Stat. §5.25. (Note: return date on Order to Show Cause must be at least 30 days after date of publication of notice and at least 10 days after the date of State.)

Dated: September 28, 2017

/s/ Robert Awsumb

Judge of the District Court

Entirety of this Order is recommended.

Wayne D. Anderson, Examiner of Titles

By /s/ Nathan A. Bissonette, Deputy SHAPIRO & ZIELKE, LLP

Melissa L. B. Porter - 0337778 12550 West Frontage Road, Suite 200 Burnsville, MN 55337 (952) 831-4060

16-104277

Attendance is required only by those who wish to object to the entry of the above-described order. 10/15, 10/22/17 Star Tribune

LEGAL NOTICES

General Notices

Cert. of Assumed Name

Mortgage Foreclosures

Proposals for Bids

BARABE SALES

Minneapolis

North Suburbs

South of the River Suburbs

NW, SW and West Suburbs

East Suburbs

St. Paul

Rummage Sales/Odds 'n Ends

SERVICES

Professional Services.....002

Health/Cosmetical Services.....107

Health & Wellness Services.....115

Home Health Care.....134

Therapeutic Massage.....140

Miscellaneous Services.....150

BUSINESS & FINANCIAL OPPORTUNITIES

Business for Sale.....170

Business Opportunities.....172

Financial.....186

ANNOUNCEMENTS

Celebrations! (See Sunday Variety)

Lost & Found.....215

General Announcements.....216

Adult Entertainment.....226

MERCHANDISE

Auctions/Liquidations.....313

Festivals/Crafts/Flea Markets.....315

Estate Sales.....317

Art & Art Goods.....320

Antiques.....323

Collectibles.....324

Firewood.....337

Handicapped/Medical Equip.....338

Misc. Equipment & Supplies.....340

Restaurant Equipment.....361

Furnishings & Appliances - New.....369

Furnishings & Appliances - Used.....370

Jewelry & Precious Metals.....371

Musical Instruments/Other.....383

Tickets.....391

Miscellaneous Sale & Wanted.....395

PETS & LIVESTOCK

Birds, Fish & Exotic Pets.....402

Cats.....403

Dogs.....404

Pets - Miscellaneous.....406

Birds & Livestock.....413

RECREATION

Campgrounds & RV Parks.....420

Fishing & Hunting Vacations.....422

Vacation Guide.....430

Sports & Fitness Equipment.....442

Hunting & Fishing Equip.....448

General Policies

Review your ad on the first day of publication. If there are mistakes, notify us immediately. We will make changes for errors and adjust your bill, but only if we receive notice on the first day that the ad is published. We warrant our liability in this way, and we do not accept liability for any other damages which may result from errors or omissions in or of an ad. All ad copy must be approved by the newspaper, which reserves the right to request changes, reject or properly close an ad. The advertiser, and not the newspaper, is responsible for the truthful content of the ad. Advertising is also subject to credit approval.

Legal Notices

Notice of Public Hearing

LOWER MINNESOTA RIVER WATERSHED DISTRICT (OFFICIAL PUBLICATION)

NOTICE OF PUBLIC HEARING PROPOSED AMENDMENT TO THE WATERSHED MANAGEMENT PLAN

Notice is hereby given that the Board of Managers of the Lower Minnesota River Watershed District (LMRWd) will meet in the County Board Room at the Carver County Administration Center, 602 East 4th Street, Chaska, Minnesota, on Wednesday, October 25, 2017, at 7:00pm and will hold a public hearing consistent with section 102B.231, subdivision 11 of Minnesota Statutes and Minnesota Rule 8410.0140. The purpose of the public hearing is to answer questions and take public testimony on proposed amendments to the LMRWd's Management Plan. The Proposed Amendment to the Plan includes the following:

- Amending Section 3, Goals, Policies and Management Strategies
- Amending Section 4, Implementation Program, which includes the District's Capital Improvement Program
- Adding a new Appendix K, LMRWd Draft Standards
- Other Sections of the plan have been revised to update the Plan
- The Amendment will extend the Plan to 2027.

All parties interested are invited to attend to offer comments and ask questions in order to advise the Board of Managers. Written comments may be sent through the date of the hearing, by email or US Mail to Linda Limois, District Administrator at naiadconsulting@gmail.com, or LMRWd, 112 East 5th Street, Chaska, MN 55318.

The proposed plan Amendment may be viewed on the LMRWd's website at <http://www.watersheddistrict.org/plan.html> by contacting the District Administrator by phone at 763-545-4659 or email at naiadconsulting@gmail.com.

Dated: October 14, 2017

BY ORDER OF THE BOARD OF MANAGERS

David Raby, Secretary

The smart way to sell your stuff.

Call 612.673.7000, fax 612.673.4884 or go to startribune.com/placeads.

StarTribune

24023009/5/14

Legal Notices

PUBLIC NOTICE

Five-Year Review

Twin Cities Air Force Reserve Base

Small Arms Range Landfill Site

Hennepin County, Minnesota

The 934th Airlift Wing, US Air Force Reserve, is conducting a five-year review of the former National Priorities List (NPL) site known as the Twin Cities Air Force Reserve Base Small Arms Range Landfill site. In 1992, the Air Force and U.S. Environmental Protection Agency (EPA) selected natural attenuation, site maintenance, access restrictions, and groundwater and surface water monitoring as the cleanup remedy for the site. Monitoring conducted through 1995 determined that natural attenuation was effective, and the site was deleted from the NPL in 1996. Because the remedy allowed landfilled material to remain on-site, Five-Year Reviews are required to ensure the remedy remains protective of human health and the environment. During the review, the Air Force and EPA study information on the site, including monitoring data, and inspect the site. The public may participate by reviewing and commenting on a Draft Report. Requests for additional information or to be included on a distribution list for the Draft Report may be made by contacting:

Douglas Yocum

934th Airlift Wing

612-713-1955

douglas.yocum@us.af.mil

Certificates of Assumed Name

CERTIFICATE of Assumed Name, State of Minnesota. Pursuant to Chapter 333 Minnesota Statutes: the undersigned, who is or will be conducting business in the State of Minnesota under an assumed name, hereby certifies that:

1. State the exact assumed name under which the business is or will be conducted: Tidland
2. State the address of the principal place of business. 222 West Memorial Road Oklahoma City OK 73114
3. List the name and complete street address of each person conducting business under the above Assumed Name. Maxcess Americas, Inc. 222 West Memorial Road Oklahoma City OK 73114
4. I certify that I am authorized to sign this certificate and I further certify that I understand that by signing this certificate, I am subject to the penalties of perjury as set forth in Minnesota Statutes section 609.48 as if I had signed this certificate under oath.

Dated: 09/06/17

(Signed) Greg Jehlik

Proposals for Bids

The Leech Lake Band of Ojibwe is soliciting sealed bids for a recently constructed 28 bed Housing with Service facility within the boundaries of the Leech Lake Reservation. We are seeking bids on Equipment and Furnishings for our facility.

Sealed bids will be received by the owner at LBO Tribal Development Office, 190 Sailstar Drive, NW, Cass Lake, MN, 55633, no later than Tuesday, October 31, 2017 by 2:00 PM (Central Standard Time) and will be publicly opened at that time.

For questions or a furniture listing, please contact Leech Lake Tribal Development at 218-333-8263 or Tamara Jackson at lojibw@org, or 218-333-3769 or Nancy.Stevens@lbb.org.

107 Home & Commercial Services

PAINTING - G.R.'s Painting

Wallpaper Removal, Woodworking, Int./Ext. Free Est. Low Rates, 20 Yrs Exp. In Fridley, Grant 763-789-2510

150 Miscellaneous Services

HAUL AWAY JUNK

Cheap Rates Dan 952-884-6588

226 Adult Entertainment

WHERE REAL GAY MEN MEET FOR UNCENSORED FUN

BROWSE AND REPLY FOR FREE - 18+ 612-351-6743

313 Auctions/Liquidations

Absolute Auction

Fri, Nov. 3, 2017 at 10:30 AM

Mark's Family Trucking LLC

At Auction Specialists Sale Site

W5659 County Road Y, Fond du Lac WI 54937

Online bidding @ BidSpotter.com

Terms: Cash or Check with Bank Letter of Credit.

10% Buyers Fee

Heavy Haul Tractor Semi-Tractors & Trailers

Complete List and Pictures @ www.auctionspot.com

Auction Specialists, PO Box 100 -Lomira WI 53048 920-921-2901 - www.auctionspot.com

Phil Majerus WI Registered Auctioneer# 676

CITY OF MINNEAPOLIS

Online Auction of Impound Vehicles

Thursday, October 26, 2017

2:00 PM CDT, Copart, Inc

3737 East River Road Fridley, MN 763-781-1025 www.copart.com

Mpls Schools Kitchen

Ends Oct 25! Bid Now!

Surplus Kitchen Equip

Refrid - Freezers - Stove + Dishwasher

View items and place bids www.hoffonlineauctions.com

Sr Power SW Eng for Siemens Industry, Inc

(Minnetonka, MN) to be resp for SW applcn't & dev Fridley, MN to utilize Supply Chain Mgmtt knowledge to lead efforts within materials, production, inventory, logistics, demand management, & order fulfillment. Reqs: MS in Indus Eng'g, Supply Chain Mgmtt, Logstcs or rtdt & 2 yrs exp or BS in Indus Eng'g, Supply Chain Mgmtt, Logstcs or rtdt & 3 yrs exp. Exp to include: Supply Chain Mgmtt; Data Mgmtt tools incl Minitab; Dvlp KPIs; Inventory Control; 6 Sigma Methodologies; Cross Functional Project Mgmtt techniques; AOP; ERP Systems Oracle Advanced Supply Chain Planning & Oracle 11i/12). Apply online at www.cummins.com or send resume with cover letter to Cummins Business Services, PO Box 290159, Nashville, TN 37209-0159. Reference Job #MN137.

Sr SW Eng for Siemens Industry, Inc.

(Minnetonka, MN) to dsgn, dev, test & intgrte cmplx SW mdls into EMS/DMS/SCADA SW pltfmrts. Req PhD in Elec Eng or rel + 1 yr exp in job offd or acc alt occ. Alt, empl will acpt Bach in abv-lstd fids + 5 yrs exp in job offd or acc alt occ. Mst hv 1 yr exp w/ flwng skills: Power App/Enrgy Mngmnt algrthms / tech issues; dvlvr apprtie sltns to cstrnts who are resp &/or own part of elec ntwrk; prog that invlvs power apps; prog abilty incl C & C++; Mrcrd Mngmnt Systm; AGCs; dtbse knwldge; fmliarty w/ Linux; & Oracle Advanced Supply Chain Planning & Oracle 11i/12). Apply online at www.cummins.com or send resume with cover letter to Cummins Business Services, PO Box 290159, Nashville, TN 37209-0159. Reference Job #MN137.

S/W DVLPRS

HGST, Inc. has optpyts in Rochester, MN for Sr Data Engrs. Knwldg of Linux OS reqd. Mail resume to Attn: HR, 951 Sandisk Dr, MS-HRGM, Milpitas, CA 95035, Ref: 090715. Must be legally able to work in the U.S. w/o spnsrshp. EOE

324 Collectibles

AMERICAN FLYER AND LIONEL

Electric Trains Wanted- Will Pay Cash. Call Jerry 763-228-0639

POSTCARD & PAPER SHOW

Bloomington Armory, 3300 W. 98th St. Sat Oct. 28, 9am-5, Sun Oct 29, 9-3.

TOY CAR SHOW & SWAP MEET

Sat 10/28, VFW Post 363, 1040 Osborne Rd, Fridley (just off Hwy 65). Early bird 11am, \$5. General Admission Noon-3, \$3. All kinds of toy cars & toys. Questions Warren 612.636.2450

337 Firewood

A Bargain!

2 year seasoned red oak & birch, split, fine, clean, 4"x7"x16" \$175/each, 1-800-630-2960

DRY OAK FIREWOOD, 3x8x16

\$160. Free delivery & stacking. Guaranteed to burn. 320-285-2645

3 Year Dry oak+birch, stored indoors

4"x6"x16" \$175, or 2/\$330, free del & stacking. Call or text 612-945-0957

340 Misc. Equipment & Supplies

SKID STEER ATTACHMENTS

Grapple bucket, brush clamp, grading plate, hoe arm, buckthorn puller, pallet fork, snow plow, 651-269-5688

383 Musical Instruments/Other

Piano - Baby Grand Kimball, excellent condition, \$3900, 651-373-7589

395 Misc. For Sale & Wanted

I BUY (working or not) lawn tractors, snowblowers, tillers, trailers, generators, misc tools & equip. 612-423-3003

404 Dogs

Airedale Terrier AKC pups, shots, wormed, vet ckd, docked, farm raised, M & F, \$750. Call 507-380-0997

Boxers AKC Puppies Rev. brindle, 2 females, shots, tails, dew claws, vet, papers. 8 wks old. \$800 320-492-1646

COLLIE PUPS 1 M, 2 F, 10 weeks, limited registration. \$975. 608-488-5541 zanevillemanorfarm.com

COTON DE TULEAR, M/F, n/s, all shots up to date, hypocallergenic, trained, \$600, 952-994-3539

DALMATIOM PUPS, F, fam rsd. Lots of spots. BAER tested, shots, wrmd, vet ckd. \$1,000. 651-448-0241

AFFIDAVIT OF PUBLICATION

STATE OF MINNESOTA)
COUNTY OF HENNEPIN)



650 3rd Ave. S, Suite 1300 | Minneapolis, MN | 55488

Linda McClellan, being first duly sworn, on oath states as follows:

1. (S)He is and during all times herein stated has been an employee of the Star Tribune Media Company LLC, a Delaware limited liability company with offices at 650 Third Ave. S., Suite 1300, Minneapolis, Minnesota 55488, or the publisher's designated agent. I have personal knowledge of the facts stated in this Affidavit, which is made pursuant to Minnesota Statutes §331A.07.

2. The newspaper has complied with all of the requirements to constitute a qualified newspaper under Minnesota law, including those requirements found in Minnesota Statutes §331A.02.

3. The dates of the month and the year and day of the week upon which the public notice attached/copied below was published in the newspaper are as follows:

Dates of Publication

StarTribune 10/22/2017

4. The publisher's lowest classified rate paid by commercial users for comparable space, as determined pursuant to § 331A.06, is as follows: **\$246.40**

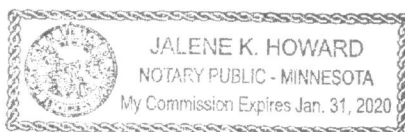
5. Mortgage Foreclosure Notices. Pursuant to Minnesota Statutes §580.033 relating to the publication of mortgage foreclosure notices: The newspaper's known office of issue is located in Hennepin County. The newspaper complies with the conditions described in §580.033, subd. 1, clause (1) or (2). If the newspaper's known office of issue is located in a county adjoining the county where the mortgaged premises or some part of the mortgaged premises described in the notice are located, a substantial portion of the newspaper's circulation is in the latter county.

FURTHER YOUR AFFIANT SAITH NOT.

A handwritten signature in dark ink, appearing to read "Linda McClellan", written over a horizontal line.

Subscribed and sworn to before me on: 10/23/2017

A handwritten signature in dark ink, appearing to read "Jaleene K. Howard", written over a horizontal line.
Notary Public



APPENDIX G

FIVE-YEAR REVIEW SITE INSPECTION CHECKLIST

I. SITE INFORMATION	
Site name: Twin Cities Air Force Reserve Base Small Arms Range Landfill (SARL)	Date of inspection: October 17, 2017
Location and Region: Fort Snelling Unorganized Territory, Hennepin County, Minnesota; USEPA Region 5	EPA ID: MN8570024275
Agency, office, or company leading the five-year review: 934th Airlift Wing, U.S. Air Force Reserve	Weather/temperature: Clear, sunny, mild; 49° F
Remedy Includes: (Check all that apply) ☒ Landfill cover/containment ☒ Access controls ☒ Institutional controls ☐ Groundwater pump and treatment ☐ Surface water collection and treatment ☐ Other _____ ☒ Monitored natural attenuation ☐ Groundwater containment ☐ Vertical barrier walls	
Inspection team roster: Thomas Barounis, Remedial Project Manager, USEPA Region 5 Douglas Yocum, Environmental Manager, 934th Airlift Wing, U.S. Air Force Reserve	
Attachments: Site photographs	

III. ON-SITE DOCUMENTS & RECORDS VERIFIED (Check all that apply)				
1.	O&M Documents ☐ O&M manual ☐ As-built drawings ☐ Maintenance logs Remarks _____	☐ Readily available ☐ Readily available ☐ Readily available	☐ Up to date ☐ Up to date ☐ Up to date	☒ N/A ☒ N/A ☒ N/A
2.	Site-Specific Health and Safety Plan ☐ Contingency plan/emergency response plan Remarks _____	☐ Readily available ☐ Readily available	☐ Up to date ☐ Up to date	☒ N/A ☒ N/A
3.	O&M and OSHA Training Records Remarks _____	☐ Readily available	☐ Up to date	☒ N/A
4.	Permits and Service Agreements ☐ Air discharge permit ☐ Effluent discharge ☐ Waste disposal, POTW ☐ Other permits _____ Remarks _____	☐ Readily available ☐ Readily available ☐ Readily available ☐ Readily available	☐ Up to date ☐ Up to date ☐ Up to date ☐ Up to date	☒ N/A ☒ N/A ☒ N/A ☒ N/A
5.	Gas Generation Records Remarks _____	☐ Readily available	☐ Up to date	☒ N/A
6.	Settlement Monument Records Remarks _____	☐ Readily available	☐ Up to date	☒ N/A
7.	Groundwater Monitoring Records Remarks <u>Three remaining site wells (MW06, MW8A, MW9A) were monitored for inorganic COCs in May 2017 for the Fifth Five-Year Review for the site.</u>	☐ Readily available	☒ Up to date	☐ N/A
8.	Leachate Extraction Records Remarks _____	☐ Readily available	☐ Up to date	☒ N/A
9.	Discharge Compliance Records ☐ Air ☐ Water (effluent) Remarks _____	☐ Readily available ☐ Readily available	☐ Up to date ☐ Up to date	☒ N/A ☒ N/A
10.	Daily Access/Security Logs Remarks _____	☐ Readily available	☐ Up to date	☒ N/A

IV. O&M COSTS

1. **O&M Organization**

- ☐ State in-house ☐ Contractor for State
☐ PRP in-house ☐ Contractor for PRP
☒ Federal Facility in-house ☐ Contractor for Federal Facility
☐ Other _____

2. **O&M Cost Records**

- ☐ Readily available ☐ Up to date ☒ N/A
☐ Funding mechanism/agreement in place
Original O&M cost estimate _____ ☐ Breakdown attached

Total annual cost by year for review period if available

From _____	To _____	_____	☐ Breakdown attached
Date	Date	Total cost	
From _____	To _____	_____	☐ Breakdown attached
Date	Date	Total cost	
From _____	To _____	_____	☐ Breakdown attached
Date	Date	Total cost	
From _____	To _____	_____	☐ Breakdown attached
Date	Date	Total cost	
From _____	To _____	_____	☐ Breakdown attached
Date	Date	Total cost	

3. **Unanticipated or Unusually High O&M Costs During Review Period**

Describe costs and reasons: Not applicable

V. ACCESS AND INSTITUTIONAL CONTROLS ☒ Applicable ☐ N/A			
A. Fencing			
1.	Fencing damaged ☐ Location shown on site map ☒ Gates secured ☐ N/A	Remarks <u>Site fencing is intact and not currently in need of any repairs or maintenance.</u>	
B. Other Access Restrictions			
1.	Signs and other security measures ☐ Location shown on site map ☐ N/A	Remarks <u>Air Force restricted access warning signs are in place on the access gates and site fence.</u>	
C. Institutional Controls (ICs)			
1.	Implementation and enforcement Site conditions imply ICs not properly implemented ☐ Yes ☐ No ☒ N/A Site conditions imply ICs not being fully enforced ☐ Yes ☐ No ☒ N/A Type of monitoring (e.g., self-reporting, drive by) <u>On site inspection / visual observation.</u> Frequency <u>Annual</u> Responsible party/agency <u>934th Airlift Wing, U.S. Air Force Reserve</u> Contact <u>Douglas Yocum</u> <u>Environmental Manager</u> <u>612-713-1955</u> Name Title Phone no. Reporting is up-to-date ☐ Yes ☐ No ☒ N/A Reports are verified by the lead agency ☐ Yes ☐ No ☒ N/A Specific requirements in deed or decision documents have been met ☒ Yes ☐ No ☐ N/A Violations have been reported ☐ Yes ☐ No ☒ N/A Other problems or suggestions: ☐ Report attached 		
2.	Adequacy ☒ ICs are adequate ☐ ICs are inadequate ☐ N/A Remarks <u>Site access gates secured/locked. Fence intact. Site in controlled access Air Force property.</u>		
D. General			
1.	Vandalism/trespassing ☐ Location shown on site map ☒ No vandalism evident Remarks _____		
2.	Land use changes on site ☒ N/A Remarks _____		
3.	Land use changes off site ☒ N/A Remarks _____		

VI. GENERAL SITE CONDITIONS			
A. Roads ☒ Applicable ☐ N/A			
1.	Roads damaged ☐ Location shown on site map	☒ Roads adequate ☐ N/A	Remarks <u>Asphalt road onto Air Force property, leading to gravel road with access to site gate B-35.</u> _____ _____
B. Other Site Conditions			
Remarks <u>Site is adjacent to a retention basin maintained by the Metropolitan Airports Commission.</u> _____ _____ _____ _____ _____ _____			
VII. LANDFILL COVERS ☒ Applicable ☐ N/A			
A. Landfill Surface			
1.	Settlement (Low spots) ☐ Location shown on site map	☒ Settlement not evident	Areal extent _____ Depth _____ Remarks _____ _____
2.	Cracks ☐ Location shown on site map	☒ Cracking not evident	Lengths _____ Widths _____ Depths _____ Remarks _____ _____
3.	Erosion ☐ Location shown on site map	☒ Erosion not evident	Areal extent _____ Depth _____ Remarks _____ _____
4.	Holes ☐ Location shown on site map	☒ Holes not evident	Areal extent _____ Depth _____ Remarks _____ _____
5.	Vegetative Cover ☒ Grass ☒ Cover properly established ☒ No signs of stress ☒ Trees/Shrubs (indicate size and locations on a diagram) Remarks <u>Two portions of the 2-acre fenced area have had trees/undergrowth present for at least the 25 years since the ROD for the site was signed by the Air Force and USEPA.</u> _____		
6.	Alternative Cover (armored rock, concrete, etc.) ☐ N/A Remarks <u>A 2400-square foot concrete slab is in place on a portion of the surface of the landfill area.</u> _____		
7.	Bulges ☐ Location shown on site map	☒ Bulges not evident	Areal extent _____ Height _____ Remarks _____ _____

8.	Wet Areas/Water Damage ☐ Wet areas ☐ Ponding ☐ Seeps ☐ Soft subgrade Remarks _____ _____	☒ Wet areas/water damage not evident ☐ Location shown on site map Areal extent _____ ☐ Location shown on site map Areal extent _____ ☐ Location shown on site map Areal extent _____ ☐ Location shown on site map Areal extent _____
9.	Slope Instability ☐ Slides ☐ Location shown on site map ☒ No evidence of slope instability Areal extent _____ Remarks _____ _____	
B. Benches ☐ Applicable ☒ N/A (Horizontally constructed mounds of earth placed across a steep landfill side slope to interrupt the slope in order to slow down the velocity of surface runoff and intercept and convey the runoff to a lined channel.)		
1.	Flows Bypass Bench Remarks _____ _____	☐ Location shown on site map ☐ N/A or okay
2.	Bench Breached Remarks _____ _____	☐ Location shown on site map ☐ N/A or okay
3.	Bench Overtopped Remarks _____ _____	☐ Location shown on site map ☐ N/A or okay
C. Letdown Channels ☐ Applicable ☒ N/A (Channel lined with erosion control mats, riprap, grout bags, or gabions that descend down the steep side slope of the cover and will allow the runoff water collected by the benches to move off of the landfill cover without creating erosion gullies.)		
1.	Settlement ☐ Location shown on site map ☐ No evidence of settlement Areal extent _____ Depth _____ Remarks _____ _____	
2.	Material Degradation ☐ Location shown on site map ☐ No evidence of degradation Material type _____ Areal extent _____ Remarks _____ _____	
3.	Erosion ☐ Location shown on site map ☐ No evidence of erosion Areal extent _____ Depth _____ Remarks _____ _____	
4.	Undercutting ☐ Location shown on site map ☐ No evidence of undercutting Areal extent _____ Depth _____ Remarks _____ _____	

5.	Obstructions Type _____ ☐ No obstructions ☐ Location shown on site map Areal extent _____ Size _____ Remarks _____ _____
6.	Excessive Vegetative Growth Type _____ ☐ No evidence of excessive growth ☐ Vegetation in channels does not obstruct flow ☐ Location shown on site map Areal extent _____ Remarks _____ _____
D. Cover Penetrations ☐ Applicable ☒ N/A	
1.	Gas Vents ☐ Active ☐ Passive ☐ Properly secured/locked ☐ Functioning ☐ Routinely sampled ☐ Good condition ☐ Evidence of leakage at penetration ☐ Needs Maintenance ☐ N/A Remarks _____ _____
2.	Gas Monitoring Probes ☐ Properly secured/locked ☐ Functioning ☐ Routinely sampled ☐ Good condition ☐ Evidence of leakage at penetration ☐ Needs Maintenance ☐ N/A Remarks _____ _____
3.	Monitoring Wells (within surface area of landfill) ☐ Properly secured/locked ☐ Functioning ☐ Routinely sampled ☐ Good condition ☐ Evidence of leakage at penetration ☐ Needs Maintenance ☐ N/A Remarks _____ _____
4.	Leachate Extraction Wells ☐ Properly secured/locked ☐ Functioning ☐ Routinely sampled ☐ Good condition ☐ Evidence of leakage at penetration ☐ Needs Maintenance ☐ N/A Remarks _____ _____
5.	Settlement Monuments ☐ Located ☐ Routinely surveyed ☐ N/A Remarks _____ _____
E. Gas Collection and Treatment ☐ Applicable ☒ N/A	
1.	Gas Treatment Facilities ☐ Flaring ☐ Thermal destruction ☐ Collection for reuse ☐ Good condition ☐ Needs Maintenance Remarks _____ _____
2.	Gas Collection Wells, Manifolds and Piping ☐ Good condition ☐ Needs Maintenance Remarks _____ _____

3.	Gas Monitoring Facilities (<i>e.g.</i> , gas monitoring of adjacent homes or buildings) ☐ Good condition ☐ Needs Maintenance ☐ N/A Remarks _____ _____		
F. Cover Drainage Layer ☐ Applicable ☒ N/A			
1.	Outlet Pipes Inspected	☐ Functioning	☐ N/A
Remarks _____ _____			
2.	Outlet Rock Inspected	☐ Functioning	☐ N/A
Remarks _____ _____			
G. Detention/Sedimentation Ponds ☐ Applicable ☒ N/A			
1.	Siltation Areal extent _____ Depth _____	☐ N/A	
☐ Siltation not evident Remarks _____ _____			
2.	Erosion Areal extent _____ Depth _____		
☐ Erosion not evident Remarks _____ _____			
3.	Outlet Works	☐ Functioning	☐ N/A
Remarks _____ _____			
4.	Dam	☐ Functioning	☐ N/A
Remarks _____ _____			
H. Retaining Walls ☐ Applicable ☒ N/A			
1.	Deformations	☐ Location shown on site map	☐ Deformation not evident
Horizontal displacement _____ Vertical displacement _____ Rotational displacement _____ Remarks _____ _____			
2.	Degradation	☐ Location shown on site map	☐ Degradation not evident
Remarks _____ _____			
I. Perimeter Ditches/Off-Site Discharge ☐ Applicable ☒ N/A			
1.	Siltation	☐ Location shown on site map	☐ Siltation not evident
Areal extent _____ Depth _____ Remarks _____ _____			
2.	Vegetative Growth	☐ Location shown on site map	☐ N/A
☐ Vegetation does not impede flow Areal extent _____ Type _____ Remarks _____ _____			

3.	Erosion ☐ Location shown on site map ☐ Erosion not evident Areal extent _____ Depth _____ Remarks _____ _____
4.	Discharge Structure ☐ Functioning ☐ N/A Remarks _____ _____
VIII. VERTICAL BARRIER WALLS ☐ Applicable ☒ N/A	
1.	Settlement ☐ Location shown on site map ☐ Settlement not evident Areal extent _____ Depth _____ Remarks _____ _____
2.	Performance Monitoring Type of monitoring _____ ☐ Performance not monitored Frequency _____ ☐ Evidence of breaching Head differential _____ Remarks _____ _____
IX. GROUNDWATER/SURFACE WATER REMEDIES ☐ Applicable ☒ N/A	
A. Groundwater Extraction Wells, Pumps, and Pipelines ☐ Applicable ☒ N/A	
1.	Pumps, Wellhead Plumbing, and Electrical ☐ Good condition ☐ All required wells properly operating ☐ Needs Maintenance ☐ N/A Remarks _____ _____ _____
2.	Extraction System Pipelines, Valves, Valve Boxes, and Other Appurtenances ☐ Good condition ☐ Needs Maintenance Remarks _____ _____ _____
3.	Spare Parts and Equipment ☐ Readily available ☐ Good condition ☐ Requires upgrade ☐ Needs to be provided Remarks _____ _____ _____
B. Surface Water Collection Structures, Pumps, and Pipelines ☐ Applicable ☒ N/A	
1.	Collection Structures, Pumps, and Electrical ☐ Good condition ☐ Needs Maintenance Remarks _____ _____ _____
2.	Surface Water Collection System Pipelines, Valves, Valve Boxes, and Other Appurtenances ☐ Good condition ☐ Needs Maintenance Remarks _____ _____ _____
3.	Spare Parts and Equipment ☐ Readily available ☐ Good condition ☐ Requires upgrade ☐ Needs to be provided Remarks _____ _____ _____

C. Treatment System		☐ Applicable	☒ N/A
1.	Treatment Train (Check components that apply) ☐ Metals removal ☐ Oil/water separation ☐ Bioremediation ☐ Air stripping ☐ Carbon adsorbers ☐ Filters _____ ☐ Additive (e.g., chelation agent, flocculent) _____ ☐ Others _____ ☐ Good condition ☐ Needs Maintenance ☐ Sampling ports properly marked and functional ☐ Sampling/maintenance log displayed and up to date ☐ Equipment properly identified ☐ Quantity of groundwater treated annually _____ ☐ Quantity of surface water treated annually _____ Remarks _____ _____		
2.	Electrical Enclosures and Panels (properly rated and functional) ☒ N/A ☐ Good condition ☐ Needs Maintenance Remarks _____ _____		
3.	Tanks, Vaults, Storage Vessels ☒ N/A ☐ Good condition ☐ Proper secondary containment ☐ Needs Maintenance Remarks _____ _____		
4.	Discharge Structure and Appurtenances ☒ N/A ☐ Good condition ☐ Needs Maintenance Remarks _____ _____		
5.	Treatment Building(s) ☒ N/A ☐ Good condition (esp. roof and doorways) ☐ Needs repair ☐ Chemicals and equipment properly stored Remarks _____ _____		
6.	Monitoring Wells (pump and treatment remedy) ☐ Properly secured/locked ☐ Functioning ☐ Routinely sampled ☐ Good condition ☐ All required wells located ☐ Needs Maintenance ☒ N/A Remarks _____ _____		
D. Monitoring Data			
1.	Monitoring Data ☒ Is routinely submitted on time ☒ Is of acceptable quality		
2.	Monitoring data suggests: ☐ Groundwater plume is effectively contained ☒ Contaminant concentrations are declining		

E. Monitored Natural Attenuation

1. **Monitoring Wells** (natural attenuation remedy)
☒ Properly secured/locked ☒ Functioning ☐ Routinely sampled ☒ Good condition
☒ All required wells located ☐ Needs Maintenance ☐ N/A
Remarks Since site de-listing, the three remaining site wells (MW06, MW8A, MW9A) have been used only for monitoring during Five-Year Reviews for the site.

X. OTHER REMEDIES

If there are remedies applied at the site which are not covered above, attach an inspection sheet describing the physical nature and condition of any facility associated with the remedy. An example would be soil vapor extraction.

XI. OVERALL OBSERVATIONS**A. Implementation of the Remedy**

Describe issues and observations relating to whether the remedy is effective and functioning as designed. Begin with a brief statement of what the remedy is to accomplish (i.e., to contain contaminant plume, minimize infiltration and gas emission, etc.).

The selected remedy for the site consisted of natural attenuation of groundwater contamination, along with access restrictions, site maintenance and monitoring, and institutional controls. Access controls, in the form of fencing and warning signs, are in place at the site. Institutional controls in the form of a deed restriction limiting future development of this site and limiting future groundwater usage, will be imposed in the event that the USAF releases the property once a deed is prepared, since there is currently no "deed" for the property. No issues were identified during the site inspection. Observations of the site during the inspection indicate the remedy is effective and functioning as designed.

B. Adequacy of O&M

Describe issues and observations related to the implementation and scope of O&M procedures. In particular, discuss their relationship to the current and long-term protectiveness of the remedy.

The remedy for the SARL does not include any operating systems other than access controls, and monitoring wells used during five-year reviews. O&M for the site consists of: a) annual site inspection to assess the integrity of the fence and the soil cover above the landfill materials, and identify need for repairs; and b) as-needed maintenance of the monitoring wells. No issues were identified during the site inspection. Observations of the site during the inspection indicate protectiveness of the remedy is currently acceptable, and likely to remain acceptable for the long-term.

C. Early Indicators of Potential Remedy Problems

Describe issues and observations such as unexpected changes in the cost or scope of O&M or a high frequency of unscheduled repairs, that suggest that the protectiveness of the remedy may be compromised in the future.

There are currently no issues or observations suggesting future compromise of the protectiveness of the remedy.

D. Opportunities for Optimization

Describe possible opportunities for optimization in monitoring tasks or the operation of the remedy.

An opportunity exists to reduce costs of monitoring and sampling, with no detriment to the site remedy. Groundwater sampling and analysis at the site could be discontinued, and the three remaining monitoring wells (MW06, MW8A, and MW9A) could be abandoned and sealed in accordance with state code. There appears to be no potential for further improvement in remedy effectiveness to be gained from continuing groundwater monitoring for future FYRs.



Secured gate B-35, northwest end of site



Former disposal area, view facing east; concrete slab placed in 2011



Former disposal area, view facing southwest



Former disposal area, view facing northwest



Site perimeter fence, view facing east



Secured gate B-30, east end of site