City of Golden Valley
7800 Golden Valley Road • Golden Valley, MN 55427

FEASIBILITY Report

June 10, 2014

DRAFT 2015 Bassett Creek Main Stem Restoration Project

City of Golden Valley
Hennepin County, Minnesota

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DRAFT FEASIBILITY STUDY FOR 2015 BASSETT CREEK MAIN STEM RESTORATION PROJECT

For:

City of Golden Valley

June 10, 2014

Prepared By:

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CERTIFICATION

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of Minnesota.

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TABLE OF CONTENTS

1 INTRODUCTION 1
1.1 Background/ Need for Project 1
1.2 General Project Description and Estimated Cost 2
1.3 Recommendations 3
2 BACKGROUND AND OBJECTIVES 5
2.1 Goals and Objectives 5
2.1.1 Scope 5
2.1.2 Streambank Stabilization 6
2.1.3 Considerations 6
2.2 Background 6
2.2.1 Reach Description 6
2.2.2 Past Documents and Activities Addressing this Reach 7
3 SITE CHARACTERISTICS 10
3.1 Bassett Creek Watershed 10
3.2 Stream Characteristics 10
3.3 Site Access 10
3.4 Wetlands 11
3.5 Cultural and Historical Resources 11
3.6 Phase I Environmental Assessment 11
3.6.1 Adjoining and Surrounding Releases 12
4 POTENTIAL IMPROVEMENTS 13
4.1 Description of Potential Improvements 13
4.1.1 Slope Shaping 13
4.1.2 Biologs 13
4.1.3 Biologs with Fieldstone 13
4.1.4 Live Fascines 14
4.1.5 Vegetated Reinforced Slope Stabilization (VRSS) 14
4.1.6 Root Wads 14
4.1.7 Live Stakes 14
4.1.8 Rock Vanes 14
4.1.9 Fieldstone Riprap 14
4.1.10 Fieldstone Boulder 15
4.1.11 Maintenance 15
4.2 Project Impacts 18
4.2.1 Easement Acquisition 18
4.2.2 Permits Required for Project 19
4.2.3 Other Project Impacts 20
4.3 Estimated Project Cost 21
4.3.1 Estimated Cost 21

TABLE OF CONTENTS

4.3.2 Anticipated Project Lifespan 22
4.3.3 30 Year Maintenance Costs/Life Cycle Cost 23
4.3.4 Analysis of the Benefits and Impacts of each Restoration Alternative 24
4.4 Funding Sources 24
4.5 Project Schedule 24
5 REFERENCES 31

List of Tables

Table 1 BCWMC Channel Restoration Projects
Table 2a Option 1 Potential Soft Armoring Stabilization Measures at Each Site
Table 2b Option 2 Potential Hard Armoring Stabilization Measures at Each Site
Table 3a Option 1 Site Locations, Potential Soft Armoring Stream Stabilization Practices, and Overall Opinion of Cost for the 2015 Bassett Creek Main Stem Restoration Project.
Table 3b Option 2 Potential Site Locations, Potential Hard Armoring Stream Stabilization Practices, and Overall Opinion of Cost for the 2015 Bassett Creek Main Stem Restoration Project.

List of Appendices

Appendix A Figures
Figure 1 Location Map
Figure 2 Option 1 Proposed Soft Armoring Maintenance Locations
Figure 3 Option 2 Proposed Hard Armoring Maintenance Locations
Figure 4 Slope Shaping
Figure 5 Bio-Log Bank Protection with or without Fieldstone
Figure 6 Live Fascines
Figure 7 Vegetative Reinforced Slope Stabilization (VRSS)
Figure 8 Root Wads
Figure 9 Live Stakes
Figure 10 Rock Vanes
Figure 11 Fieldstone Rip Rap
Figure 12 Fieldstone Boulder
Appendix B 2013 Site Photos
Appendix C Wetland Delineation Report *(Enclosed Disk)*
Appendix D Cultural and Historical Resources Report *(Enclosed Disk)*
Appendix E Phase 1 Environmental Assessment Study *(Enclosed Disk)*
Appendix F 2013 City of Golden Valley Streambank Erosion Inventory

1 Introduction

1.1 Background/ Need for Project

The Main Stem of Bassett Creek extends from Rhode Island Avenue and 10th Avenue to the south side of Duluth Street. This reach, located within the City of Golden Valley **(See Figure 1)** has been inspected and studied by the Watershed Commission and the City of Golden Valley and it has been noted the Creek is experiencing erosion and sedimentation to varying degrees along it's channel banks in selected locations. Pictures of many of these areas are also provided within this study providing further evidence of these problems. This erosion is undermining trees along the channel bank, creating side bank failures, downstream sedimentation, water quality impacts, and loss of habitat.

The Bassett Creek Watershed Management Commission (BCWMC) Watershed Management Plan recognizes the need to restore stream reaches damaged by erosion or affected by sedimentation. Section 7 of the BCWMC Plan further indicates that one of the primary concerns of residents in the District is the maintenance of the natural beauty of the creek in residential and recreational areas.

Section 7 of the BCWMC plan outlines the Commission's Goals and Policies relating to undertaking and funding channel restoration projects, the Commissions direction related to design of these projects, and highlights the benefit of stream restoration. In January 2007 the BCWMC's Technical Advisory Committee recommended that the Commission add stream channel restoration projects to the Commission's 10-Year Capital Improvements Program (CIP).

The Commissions general stream restoration goals include implementing stream restoration measures whenever necessary to maintain health, safety, and welfare of the residents in the District, as well as maintain or enhance the natural beauty and wildlife habitat value of Bassett Creek.

Additionally, the plan also indicates that as part of the design of any project, the benefit or impact of the proposed restoration measures on natural habitat, navigability, flood control, water quality, aesthetic qualities of the area, and ability to protect property, structures, and prevent future erosion should be considered.

This study examines the feasibility of restoring sites along the Main Stem of Bassett Creek from Rhode Island Avenue and 10th Avenue to the south side of Duluth Street, located within the City of Golden Valley ***(Figure 1).***

This feasibility study follows the protocols developed by the U.S. Army Corps of Engineers (USACE) and the BCWMC for projects within the BCWMC Resource Management Plan (RMP). This reach is included in the RMP.

Restoration of sites along this reach is proposed to be included as a group for design and construction in the BCWMC 2015 CIP.

1.2 General Project Description and Estimated Cost

Measures identified for potential implementation in this reach consist of the following in selected areas along the channel:

- Removal of hazard and invasive trees and vegetation
- Reshaping and stabilization of eroded stream banks
- Installation of a variety of stream stabilization measures and flow diversion methods to address erosion problems, including Rock Vanes, Bio-logs, boulders, riprap, live stakes, and native vegetation and plantings
- Repair of storm sewer outfalls and other failing infrastructure along the creek
- Establishing native vegetation, trees, and shrubs along the creek
- Removal of miscellaneous debris from within the creek

This study has identified two restoration design options for the project as well as a hybrid of the two options. These options include a bioengineering approach the uses stabilization techniques that rely primarily on vegetation, and their associated root structures to stabilize the creek bank, and a more structural approach using rock, or other non-vegetative materials to stabilize eroding shorelines. A design using a combination of these two options has also been considered and has been preliminarily selected as a preferred option in many areas needing restoration.

The selection of the best option for a given steam reach will be based on a number of factors including but not limited to; ease of and ability to obtain access for installation and future maintenance, slope of creek bank, presence of mature trees in the area and need to remove trees, exposure of creek bank to sunlight, velocity of flow in channel reach, and property owners' preferences for type of treatment.

Since selection of the type of treatment used in a given area, will need the support of the property owner, the City will need to finalize the design approach as a collaborative effort with the property owner. At this time, based on our review of the feasible options available and input from a number of property owners that attended a public informational meeting on the project, it is anticipated that either the vegetative or hybrid option would be selected for most areas of the channel requiring stabilization work.

The do nothing option was fully considered as an option for many areas for which erosion is present to a limited degree. For many areas not included in this project for restoration, this option was selected as there was limited evidence of significant recent erosion occurring as

would be observed from the presence of trees falling into the creek from eroding banks, creek bank slopes being undercut, evidence of historic migration/widening of the creek bank.

It is also apparent that this project will likely present a one-time opportunity for access to many areas of the channel bank in the coming years. If limited erosion is present, the do nothing option was fully considered, if evidence is available that the creek bank is eroding at a higher rate, this option will have less weight. This weight this option was given at this stage of the evaluation also took into consideration the impact of potential further erosion on trees, yards, structures and other physical and natural features of concern.

This do-nothing option will also be more fully examined during final design, when residents have an opportunity to; provide additional input into erosion that they have observed to be taking place, discuss and react to treatment options and anticipated future maintenance needs of these options, and actually provide needed access easements.

This study identifies 29 locations for both restoration options, ***(Figure 2 & 3)*** and ***(Table 2a & 2b)*** identifies the locations of the sites, and provides additional detail of the methods under consideration for use. As noted earlier in this report, based on preliminary input from residents, it is anticipated that a hybrid of a structural and non-structural methods will likely be used in many of these locations, with the non-structural vegetative component of this option being used to a maximum reasonable extent to assure the natural beauty and wildlife habitat benefits of this treatment practice can be fully developed.

The estimated feasibility cost for the implementation for each of the restoration measures for the 2015 Bassett Creek Main Stem Restoration project ranges from $1,319,109 to $1,659,434, as shown on (***Table 3a & 3b)***. These estimated costs are currently greater than the project budget. Once the design options have been finalized and property owners engaged, the maintenance areas will be prioritized according to the following priorities until the budget amount is reached:

1. Stabilization of all stream crossing and storm sewer outfalls
2. Improvements on property currently owned by the City in Areas A and E.
3. Privately owned land in Area D with the most extreme erosion issues where land owners have provided access.
4. Most extreme areas located within golf course property.

Temporary construction easements are not included in the opinion of cost at this time and are expected to have little or no effect on the total cost, even though the project it primarily located on private property.

1.3 Recommendations

Stabilization of this reach of the Main Stem of Bassett Creek will provide downstream water quality improvement by restoring actively eroding stream banks, preventing erosion at other sites using preemptive protective measures, improving failing infrastructure, and improving the overall wildlife habitat along the Creek.

This study identifies 29 locations for restoration ***(Figure 2 & 3)*** and ***(Table 2a & 2b)*** identifies the locations of the sites, and provides additional detail of the methods under consideration for use. Based on an evaluation of stabilization practices that was completed as part of this study and preliminary input from residents, it is anticipated that a hybrid of the two methods will likely be used in many of these locations, with the vegetative component of this option being used to a maximum reasonable extent to assure the natural beauty and wildlife habitat benefits of this treatment practice can be fully developed.

It is recommended that the BCWMC CIP include restoration work on this reach of Main Stem of Bassett Creek for 2015. It is further recommended that the restoration of this reach of the Bassett Creek Main Stem proceed into the design and construction phase.

2 Background and Objectives

The BCWMC Plan recognizes the need to restore stream reaches damaged by erosion or affected by sedimentation. Section 7.0 of the BCWMC Plan describes the issue, the Commission's policies relating to channel restoration, and the benefit of stream restoration in preserving fisheries habitat and minimizing nutrient and sediment loads to the creek and downstream waters. In January 2007, the BCWMC's Technical Advisory Committee recommended that the Commission add stream channel restoration projects to the Commission's 10- Year Capital Improvements Program (CIP).

This feasibility study follows the protocols developed in 2009 by the U.S. Army Corps of Engineers (USACE) and the BCWMC for projects within the BCWMC Resource Management Plan. Although this reach is not included in the RMP, it otherwise fits with the intent of it due to proximity and similarity to the other stream projects included in the RMP.

This study examines the feasibility of restoring sites along the Main Stem of Bassett Creek from 10th Avenue and Rhode Island Avenue, on the south, and extending north about 9,500 feet to the southerly edge of Duluth Street, just east of Adair Ave ***(Figure 1).***

The 2013 Golden Valley Erosion Site Survey identified numerous problem areas along the project area of Bassett Creek within the City of Golden Valley. The problems include a heavy tree canopy of volunteer trees; degraded vegetative diversity; invasive species of trees, vegetation, and shrubs; areas of active streambank erosion; deposition of sediments; and failing infrastructure.

The work to restore the channel in this area has been requested by the City of Golden Valley, which has very little ownership of or easement rights to the property adjacent to the creek. Restoration of the sites along this reach is proposed to be included as a group for design and construction in the BCWMC's 2015 CIP.

2.1 Goals and Objectives

The objective of this study is to review the feasibility of implementing measures to stabilize stream banks, re-establish desirable vegetation along the reach, and to provide improvements to the existing infrastructure along Bassett Creek. In addition, this study will provide conceptual designs and costs estimated for the measures that could potentially be used at each of the selected erosion sites.

2.1.1 Scope

The City of Golden Valley completed an erosion inventory along Bassett Creek in 2013. This inventory identified 18 areas of streambank erosion, along with several hazard trees, and infrastructure repair locations. WSB and Associates, Inc. (WSB) staff performed a channel survey on August 8, 2013 which confirmed these sites and updated the information, including adding several more sites. Many of these individual sites are grouped within the project areas identified in this study. The

selected sites were deemed to be the most critical for meeting the BCWMC goals and objectives while providing a cost effective benefit. City of Golden Valley staff were also involved with selecting the final sites.

2.1.2 Streambank Stabilization

The goals of the stream stabilization project include:

- Stabilize eroding banks to improve water quality and to protect property and infrastructure.
- Improve upon the natural beauty and habitat along Bassett Creek by stabilizing eroded areas along the creek and establishing native vegetation and plantings adjacent to the restored areas.
- Prevent future channel erosion along the creek and the resultant negative water quality impact on downstream water bodies.

2.1.3 Considerations

- Restoration activities must minimize floodplain impacts. Several businesses and residences are located near the creek and it is critical for the proposed project to not increase flood elevations that impact these properties.
- Existing floodplain storage and cross sectional areas must be maintained.
- Opportunities to enhance vegetation and habitat within the reach should be sought out.

2.2 Background

2.2.1 Reach Description

This reach of the Bassett Creek Main Stem ***(Figure 1)*** extends approximately 9,500 feet from 10th Avenue and Rhode Island Avenue the south, to the southerly edge of Duluth Street, just east of Adair Avenue. Land use adjacent to this reach is single family and golf course along with some high density residential or commercial.

WSB staff reviewed available background information, inspected the Creek on August 8, 2013, and identified a total of 29 sites that should be included as part of a project to address bank erosion, bank failure, and perform infrastructure repairs. In addition, there is a considerable amount of debris, fallen trees, gabion baskets, and block walls that need to be removed from the Creek. The City of Golden Valley completed an erosion inventory along this reach of Bassett Creek in 2013. This inventory identified 18 individual erosion locations. WSB staff confirmed most of the sites and added several more. Several of these individual sites are grouped within the

29 project sites identified in this study. The sites presented here were deemed to be the most critical for meeting the BCWMC goals and objectives while providing a cost effective benefit.

Photos of each of the erosion sites are found in ***(Appendix B)***. The bank failures along this reach appear to be caused by a combination of natural stream erosion processes, changing watershed hydrology, and a heavy volunteer tree canopy limiting light penetration, limiting stabilizing vegetation growth. Despite Cities' best efforts to incorporate best management practices (BMPs) to minimize the impacts of increased runoff, development fundamentally changes the hydrology of the watershed. BMPs reduce the impacts of urban development on streams receiving stormwater runoff, but physical changes and increased rates of erosion occur.

2.2.2 Past Documents and Activities Addressing this Reach

City of Golden Valley Erosion Site Inventory (2013)

In 2013 the City of Golden Valley completed an erosion inventory and assessment on the Bassett Creek Main Stem as it flows through its jurisdiction. This inventory identified 18 individual erosion locations within this portion of Bassett Creek.

City staff completed the inventory by walking the length of Bassett Creek and identifying, locating, and documenting sites of significant bank erosion and sediment deposition, as well as the presence of obstructions, storm sewer outlet structures, and other utilities within the stream channel. Documentation included noting the location of the site on aerial photographs, notes on the details of each site, and a digital photograph of each site.

Typically, the causes of erosion were related to the following:

- Lack of stabilization vegetation, heavy tree canopy
- Steep slopes and direct drainage to the Creek
- Storm sewer outfalls discharging above the normal water level of the creek or having no energy dissipation at the outfall
- Cut bank formation due to unstable channel slope and or elevated flow rates. The City of Golden Valley Erosion Site Inventory is included here as ***(Appendix E).***

BCWMC Main Stem Watershed Management Plan (2000)

As part of the Bassett Creek Main Stem Watershed Management Plan (2000), the BCWMC estimated the sediment and phosphorus loading to Bassett Creek from channel erosion. Three erosion scenarios were evaluated for increased loadings resulting from minor, moderate, and severe channel erosion levels. The most likely scenario for Bassett Creek was between the moderate and severe scenarios with approximately ten percent of the stream channel suffering from erosion. Similar scenarios were used to estimate the additional loading of phosphorus to Bassett Creek.

The study results indicated that moderate channel erosion could contribute an additional 1,000,000 pounds of suspended sediments annually and 500 pounds of phosphorus annually. This is an increase from approximately 2,650 pounds to 2,700 pounds to the Main Stem of Bassett Creek. The study results also showed that stabilizing the Main Stem of Bassett Creek could reduce total phosphorus (TP) loads by an estimated 96 pounds per year and total suspended solids (TSS) loads by an estimated 200,000 pounds per year.

Stabilization of this reach of the Main Stem of Bassett Creek is estimated to have a cost per pound of phosphorus removed is estimated at $2,000 per pound.

BCWMC Watershed Management Plan (2004)

The BCWMC Watershed Management Plan (2004) recognized the need to restore stream reaches damaged by erosion or affected by sedimentation. The BCWMC established a fund to cover the costs of channel stabilization projects. However, the fund as authorized was insufficient to cover the costs of all of the identified projects. In January 2007, the BCWMC's Technical Advisory Committee recommended that the Commission add stream channel restoration projects to the Commission's 10-Year CIP. The BCWMC then identified potential channel restoration projects by stream reach, prepared cost estimates for the restoration of the reach, prioritized the restoration projects, and added the larger projects to the CIP. These restoration projects included the Main Stem of Bassett Creek, the North Branch of Bassett Creek, the Sweeney Lake Branch of Bassett Creek, and Plymouth Creek.

The reaches identified have experienced increased stream bank erosion, streambed aggradation, or scour. These erosion and aggradation processes are a combination of natural and artificial processes due to increased runoff volumes and higher peak discharges in these reaches that occur with urban development in the watershed. The sediment load from the erosion and scour increases phosphorus loads to downstream water bodies, decreases the clarity of water in the stream, destroys aquatic habitat, and reduces the discharge capacity of the channel. The BCWMC added several channel restoration projects to their long range CIP in May 2007.

BCWMC Resource Management Plan (2009)

The BCWMC completed a Resource Management Plan (RMP) in July 2009 for water quality improvement projects within the Bassett Creek Watershed scheduled for design and construction between 2010 and 2016. The goal of the RMP was to streamline the permitting process with the U.S. Army Corps of Engineers (USACE) for all of the projects. This reach is included in the RMP. Per discussion with the USACE, this feasibility study follows the protocols developed by the USACE and the BCWMC for projects within the BCWMC RMP.

Table 1 presents completed and future restoration projects included in the BCWMC CIP, along with their estimated start dates and costs.

Table 1 BCWMC Channel Restoration Projects

Creek Project	Target Project Start	Estimated Project Cost[1]
Sweeney Lake Branch	2008 (complete)	$386,000
Plymouth Creek, Reach 1	2010 (complete)	$965,000
Bassett Creek Main Stem, Reach 2; Crystal border to Regent Ave.	2010 (complete)	$636,000
Bassett Creek Main Stem, Reach 1; Duluth St. to Crystal Border	2011 (complete)	$580,200
North Branch	2011 (complete)	$834,900
Bassett Creek Main Stem 2012; Golden Valley Road to Irving Ave. No.	2012 (ongoing)	$600,000
Plymouth Creek, Reach 2 (PC-2)	2015	$559,000
Bassett Creek Main Stem 2105: 10th Ave to Duluth Street	2015	$1,000,000

[1] Costs as estimated in revised 2011 CIP

3 Site Characteristics

3.1 Bassett Creek Watershed

The watershed area tributary to this reach of Bassett Creek is approximately 25,000 acres and includes a significant portion of the Bassett Creek watershed. The upstream watershed drains all or portions of Plymouth, Minnetonka, Medicine Lake, New Hope, St. Louis Park, Crystal, and Golden Valley. Existing land use includes approximately forty percent single-family residential; twenty-eight percent commercial/industrial; seven percent highway; seven percent parks and undeveloped land; four percent multi-family residential; and water surface area over the remaining land area.

3.2 Stream Characteristics

This reach of the Bassett Creek Main Stem ***(Figure 1)*** extends for approximately 9,500 feet from 10th Avenue and Rhode Island Avenue to the south, and to the southerly edge of Duluth Street, just east of Adair Avenue. The stream is relatively shallow in most places except for occasional deep pools.

With the exception of a reach of the Creek within Area D, virtually all sections of the Main stem of Bassett Creek reach were converted into ditches in the 1900s through the 1920s. The riparian vegetation in this reach varies considerably depending on adjacent land use. Much of the reach contains unmanaged woody vegetation. Some banks within golf course areas are largely free of woody vegetation and the banks are mostly grasses dominated by reed canary grass. Some banks within the parks and the golf course have turf grass to the top of the bank.

WSB staff walked the reach to further investigate the scale and severity of the erosion problems for this feasibility study. WSB staff reviewed the previously documented erosion sites and identified additional sites.

3.3 Site Access

Obtaining access to the creek at regular intervals, to bring in materials and equipment will be a challenge in many locations, and project costs will reflect ease of access during the bidding process. Most areas of the channel do have access from public right of way locations at road crossings, but additional access locations would assist in the implementation of the project. In regard to performing channel maintenance on banks owned by residents, if access is not granted to the creek bank by residents, maintenance in these areas of private property cannot be completed.

Based on initial observations and input at a public meeting, access to most maintenance areas will be possible, and residents have expressed a willingness to work with the City on the project, so executed permission to enter documents are anticipated to be obtained in most areas, and therefore, work is anticipated to be able to be completed in most of the areas identified to be stabilized in this report.

3.4 Wetlands

The wetlands associated with the study area in the Main Stem of Bassett Creek were delineated in accordance to the USACE Wetland Delineation Manual and Midwest Regional Supplement (2008). The delineation and assessment was necessary to meet the requirements of a Section 404 Permit and the Wetland Conservation Act. The assessment also included the use of the Minnesota Routine Assessment Method (MNRAM 3.4), which is a comprehensive ranking system designed to help qualitatively assess functions and values associated with Minnesota wetlands for the purpose of managing local wetland resources.

Six wetlands totaling approximately 1.54 acres were identified and field delineated. The wetlands border the Main Stem for the extent of the study area are Type 1L, or Seasonally Flooded Basins or Floodplains. In addition, MNRAM functional wetland assessments were also performed. Due to the nature and scope of the proposed 2015 project, it is our opinion that the proposed stream bank restoration activities will require a DNR Work within the Bed of Public Waters permit, and would qualify for a No-Loss determination (under the WCA) and Regional General Permit (Section 404). The DNR's work within the Bed of Public Waters Permit, WCA, and Section 404 regulatory approvals would likely not require wetland replacement plan or wetland mitigation.

A full summary of the wetland delineation and MNRAM results, including figures and field data sheets, is in ***(Appendix C).***

3.5 Cultural and Historical Resources

A reconnaissance survey of Sites 1 through 29 was completed during in September 2013 to determine if any sites may require further investigation for cultural or historical importance. The survey was completed by reviewing historical aerial photographs, interviewing local residents, and walking the relevant reaches to observe conditions on the ground. The survey found no sites with enough archeological potential that justify further investigation before any construction disturbance to the area. The full report of the archeological reconnaissance survey, including figures, is included in ***Appendix D.***

3.6 Phase I Environmental Assessment

WSB was retained by the City of Golden Valley (the City) to conduct a Phase I Environmental Site Assessment (ESA) of the 2015 Bassett Creek Main Stem Restoration Project which consists of a 1.7 mile reach of Bassett Creek from Rhode Island Ave north to Duluth Street in Golden Valley, Hennepin County, Minnesota (the subject property). The objective of the assessment was to identify Recognized Environmental Conditions (RECs) associated with the property according to ASTM E1527-13 "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessments". See ***Appendix E*** for further the complete report.

The subject property is located in residential, recreational, and commercial parcels within Sections 28, 29, and 32, Township 118 North, and Range 21 West, in Hennepin County,

Minnesota. For the purposes of this assessment, the subject property consisted of a 200-foot-radius from the Bassett Creek Main Stem along the 1.7 mile creek reach. A subject property location map is included as ***Figure 1***.

The Phase I ESA is being conducted in support of a proposed creek restoration project that will involve excavation, grading, bank stabilization, and tree removal within the subject property boundary. For ease of discussion, the subject property is divided into five different areas (Areas A-E) as illustrated on ***Figure 1.***

WSB has performed this Phase I ESA in conformance with the scope and limitations of ASTM Practice E1527-13. Exceptions to and deletions from this practice are described in **Section 2.3** of this Phase I ESA. This Phase I ESA has been prepared exclusively for the City of Golden Valley. No additional parties may rely on the contents of this report unless written authorization is obtained from WSB.

This Phase I ESA has revealed no recognized environmental conditions (RECs) associated with the subject property.

Additionally, 15 potential environmental sites were identified during this Phase I ESA and the following environmental items should be noted:

3.6.1 Adjoining and Surrounding Releases

The regulatory database search identified two adjoining properties and five surrounding area properties (located within 500 feet of the subject property) that have documented releases. There is a potential that these releases have impacted the property soil and/or sediment. The majority of these releases have been issued "site closure" by the MPCA indicating the identified contamination, if present, does not appear to pose a threat to public health or the environment under current conditions (note: site closure does not indicate the site is free of contamination) or have been determined to be small in scale and not require additional investigation and/or cleanup. The adjoining property releases are highlighted on the potential environmental sites map included in ***Appendix E***.

4 Potential Improvements

4.1 Description of Potential Improvements

As described in **Section 1.2**, the project along the 2015 Bassett Creek Main Stem Restoration Project reach consists of two options and a variety of stream stabilization measures to address erosion problems. ***Figures 2 & 3*** shows the identified stabilization sites and ***Tables 2a & 2b*** list the potential stabilization measures for each site. There are several stream restoration techniques that can be used, although not all of them would be practicable or applicable to the stream erosion problems on Bassett Creek. The techniques discussed below and included in the conceptual design are among commonly used techniques. Those included in the concept design were selected for their functionality and the expectation that most contractors have had experience with installation of the technique. The final design will determine the most appropriate measures to use at each individual site to meet the objectives of all parties involved. The final design could include techniques not included in these concept designs.

4.1.1 Slope Shaping

In many places, the eroding bank will be graded to a 3:1 slope. This provides a stable slope that will not naturally slough and it provides a surface that is flat enough on which vegetation can be planted or seeded. **Figure 4** illustrates this practice.

4.1.2 Biologs

Biologs are natural fiber rolls made from coir fiber that are laid along the toe of the stream bank slope to stabilize the toe of the stream bank. Biologs 12 inches in diameter are typically used. Because they are made of natural fiber, vegetation can grow on the biologs. When needed, grading of the stream bank slope above the biolog is used to create a more stable slope (2:1 to 3:1). **Figure 5** illustrates this practice.

4.1.3 Biologs with Fieldstone

Biologs are natural fiber rolls made from coir fiber that are laid along the toe of the stream bank slope along with a one foot section of Class II Fieldstone Rip Rap to stabilize the toe of the stream bank. Biologs 12 inches in diameter are typically used. Because they are made of natural fiber, vegetation can grow on the biologs while the Fieldstone Rip Rap provides a slightly greater stabilization characteristic. When needed, grading of the stream bank slope above the biolog is used to create a more stable slope (2:1 to 3:1). **Figure 5** illustrates this practice.

4.1.4 Live Fascines

Live fascines use dormant willow and dogwood cuttings installed during the dormant season. In this case, the cuttings are bundled together and planted in a row parallel to the stream flow. They can be effective in reducing sheet erosion along a slope because a portion of the fascine extends above the ground surface. **Figure 6** illustrates this practice.

4.1.5 Vegetated Reinforced Slope Stabilization (VRSS)

VRSS is a bioengineering method that combines rock, geosynthetics, soil, and plants to stabilize steep, eroding banks. VRSS typically involves protecting layers of soil with a blanket or geotextile material creating soil lifts (also called soil pillows) and planting or seeding native vegetation on the slope. The vegetation's root systems provide the long-term slope stabilization. **Figure 7** illustrates this practice.

4.1.6 Root Wads

Root wads are constructed from root balls with sections of their tree trunks attached. Removed trees will be salvaged for use as root wads. The tree trunks are buried into the bottom of the stream bank, with the root wad end sticking out into the stream. Supporting footer logs and boulders are often used to stabilize the root wads. Given the large number of trees that may need to be removed as part of this project, a large number of root wads may be available for use in this reach during restoration. **Figure 8** illustrates this practice.

4.1.7 Live Stakes

Live stakes are dormant stem cuttings, typically willow and dogwood species. They are collected and installed during the dormant season (late fall to early spring) and grow new roots and leaves, quickly and inexpensively establishing woody vegetation on a stream bank. The willows and dogwoods grow into stands that provide long lasting bank protection. **Figure 9** illustrates this practice.

4.1.8 Rock Vanes

Rock vanes (also called J vanes) are constructed of boulders embedded into the creek bottom. The vanes are embedded in the stream bank and are oriented upstream to direct the flow away from that bank. Rock vanes typically occupy no more than one-third of the channel width. **Figure 10** illustrates this practice.

4.1.9 Fieldstone Riprap

Fieldstone Riprap (also called stone toe protection) is used to protect the toe of the stream bank. In-stream riprap typically consists of cobble-sized rock (6 to 12 inches in diameter). The riprap is keyed in to the streambed and extends up the bank to

approximately the bankfull level elevation. The bankfull level is the elevation of the water in the channel during a 1.5-year return frequency runoff event. In some cases, this level may be below the top of the stream bank. Riprap is typically used in conjunction with planting of the upper banks to provide full bank protection. Riprap is especially effective in heavily shaded areas, where it is difficult to establish vegetation. **Figure 11** illustrates this practice.

4.1.10 Fieldstone Boulder

Boulders are used to protect the toe of the stream bank. In-stream boulders typically consist of rocks (24 to 36 inches in diameter). The riprap is keyed in to the streambed and extends up the bank to approximately the bankfull level elevation. The bankfull level is the elevation of the water in the channel during a 1.5-year return frequency runoff event. In some cases, this level may be below the top of the stream bank. Riprap is typically used in conjunction with planting of the upper banks to provide full bank protection. Riprap is especially effective in heavily shaded areas, where it is difficult to establish vegetation. **Figure 12** illustrates this practice.

4.1.11 Maintenance

Maintenance of newly planted vegetation to protect it from poor survival rates of individual plants and encroachment by invasive species is crucial to the success of stabilization projects. The cost estimates in this study include a three year warranty and maintenance for establishment of vegetation as specified in the contract documents.

Table 2a – Potential Stabilization Measures at Each Site

Potential Bioengineering Stabilization Measures for Each Site			
Site Number	**Station**	**Potential Stream Stabilization Practice[1]**	**Photos[2]**
1	1+50	Remove 30 in Cotton Wood Tree	1
2	0+50- 8+00	Reshape and Stabilize Streambanks with 12 in Biolog and 12 in Live Fascine (1,500 ft) Remove 120 Trees	2
3	4+50	Remove 36 in Cottonwood Tree	-
4	5+75	Remove 42 in Cottonwood Tree	-
5 & 6	8+00 & 9+00	Remove Existing Gabions and Grouted Rip Rap at Culvert Place 30 tons of Class III Fieldstone Rip Rap at Each End of Culvert	3

7	36+50 to 41+50	Reshape and Stabilize Streambanks with 12 in Biolog with 1 ft section of Class II Fieldstone Rip Rap (1,000 ft) Install 6 Root Wads Install 6 Rock Vanes Remove 75 Trees	4
8	43+25	Remove 68 in Cottonwood Tree	-
9	42+50 to 45+50	Reshape and Stabilize Streambanks with 12 in Biolog and a 1 ft Section of Class II Fieldstone Rip Rap (600 ft) Install 5 Root Wads Install 5 Rock Vanes Remove 75 trees	5
10	48+00 to 53+50	Reshape and Stabilize Streambanks with 12 in Biolog and a 1 ft Section of Class II Fieldstone Rip Rap (1100 ft) Install 5 Root Wads Install 5 Rock Vanes Remove 80 Trees	6
11	50+90	Stabilize 12 in FES	7
12	54+75	Remove 66 in Cottonwood Tree	-
13	56+00	Remove (5) 50 in and greater Cottonwood Trees	8
14	54+50 to 58+70	Reshape and Stabilize Streambanks with 12 in Biolog and 1 ft Section of Class II Fieldstone Rip Rap (840 ft) Remove 75 Trees	9
15	58+70 to 59+70	Reshape and Stabilize Streambanks with a 6 ft section of Fieldstone Boulders (200 ft)	10
16	65+20	Reattach FES and Pipe Tie joints Reinstall sheet piling under FES	11
17	62+75	Install 8" Galvanized FES on 8 in CMP	12
18	63+80 to 64+60	Remove block wall (80 ft)	13
19	62+50 to 80+50	Reshape and Stabilize Streambanks with 12 in Biolog and 1 ft Section of Class II Fieldstone Rip Rap (3,600 ft) Install 28 Root Wads Install 25 Rock Vanes Remove 200 Trees	14
20	68+50 to 71+00	Stabilize streambank with VRSS (305 sq yd)	15
21 & 22	76+00 & 77+00	Install Turf Reinforcement Mat on Peninsulas (700 sq yd)	-

23	83+00 to 94+00	Reshape and Stabilize Streambanks with 12 in Biolog and 12 in Live Fascine (2,200 ft) Install 18 Root Wads Install 17 Rock Vanes Remove 175 Trees	16
24	86+50 to 86+70	Remove gabion baskets (20ft)	17
25	87+60	Install FES on 12 in and 24 in RCP pipe	18
26	87+90	Install Galvanized FES on 12 in PVC pipe	19
27	89+25	Install FES on 12 in RCP and PVC pipe	20
28	89+90	Install FES on 12in RCP	21
29	90+80 to 91+00	Remove gabion baskets (20 ft)	-

[1] All sites will be planted or seeded with native grasses, shrubs, and trees. The final design phase will determine which practices will be used at each site and may or may not use the practices specified in this table.
[2] Photos are located in Appendix B.

Table 2b – Potential Stabilization Measures at Each Site

Potential Engineered (Harder Armoring) Stabilization Measures at Each Site			
Site Number	**Station**	**Potential Stream Stabilization Practice[1]**	**Photos[2]**
1	1+50	Remove 30 in Cotton Wood Tree	1
2	0+50-8+00	Reshape and Stabilize Streambanks with 2 ft section of Class II Fieldstone Rip Rap (1,500 ft) Remove 50 trees	2
3	4+50	Remove 36 in Cottonwood Tree	-
4	5+75	Remove 42 in Cottonwood Tree	-
5 & 6	8+00 & 9+00	Remove Existing Gabions and Grouted Rip Rap at Culvert Place 30 tons of Class III Fieldstone Rip Rap at Each End of Culvert	3
7	36+50 to 41+50	Reshape and Stabilize Streambanks with 2 ft section of Class II Fieldstone Rip Rap (1,000 ft) Remove 50 Trees	4
8	43+25	Remove 68 in Cottonwood Tree	-
9	42+50 to 45+50	Reshape and Stabilize Streambanks with 2 ft section of Class II Fieldstone Rip Rap (600 ft) Remove 30 trees	5
10	48+00 to 53+50	Reshape and Stabilize Streambanks with 2 ft section of Class II Fieldstone Rip Rap (1100 ft) Remove 40 Trees	6
11	50+90	Stabilize 12 in FES	7

12	54+75	Remove 66 in Cottonwood Tree	-
13	56+00	Remove (5) 50 in and greater Cottonwood Trees	8
14	54+50 to 58+70	Reshape and Stabilize Streambanks with 2 ft section of Class II Fieldstone Rip Rap (840 ft) Remove 20 Trees	9
15	58+70 to 59+70	Reshape and Stabilize Streambanks with a 6 ft section of Fieldstone Boulders (200 ft)	10
16	65+20	Reattach FES and Pipe Tie joints Reinstall sheet piling under FES	11
17	62+75	Install 8" Galvanized FES on 8 in CMP	12
18	63+80 to 64+60	Remove block wall (80 ft)	13
19	62+50 to 80+50	Reshape and Stabilize Streambanks with 2 ft section of Class II Fieldstone Rip Rap (3,600 ft) Remove 130 Trees	14
20	68+50 to 71+00	Reshape and Stabilize Streambank with 9 ft Fieldstone Boulder section (250 ft)	15
21 & 22	76+00 & 77+00	Install Turf Reinforcement Mat on Peninsulas (700 sq yd)	-
23	83+00 to 94+00	Reshape and Stabilize Streambanks with 2 ft section of Class II Fieldstone Rip Rap (2,200 ft) Remove 80 Trees	16
24	86+50 to 86+70	Remove gabion baskets (20ft)	17
25	87+60	Install FES on 12 in and 24 in RCP pipe	18
26	87+90	Install Galvanized FES on 12 in PVC pipe	19
27	89+25	Install FES on 12 in RCP and PVC pipe	20
28	89+90	Install FES on 12in RCP	21
29	90+80 to 91+00	Remove gabion baskets (20 ft)	-

[1] All sites will be planted or seeded with native grasses, shrubs, and trees. The final design phase will determine which practices will be used at each site and may or may not use the practices specified in this table.

[2] Photos are located in Appendix B

4.2 Project Impacts

4.2.1 Easement Acquisition

Nearly all of the work sites are located on property with very little easements or right-of-way. Temporary construction easements or temporary rights-of-entry are not included in the opinion of cost and are not expected to have significant effect on the total cost.

4.2.2 Permits Required for Project

The proposed project will require:

1. Clean Water Act Section 404 permit from the USCAE, or Letter of Permission under a General Permit, and Section 401 certification from the Minnesota Pollution Control Agency (MPCA), a
2. Compliance with the Minnesota Wetland Conservation Act, and
3. A Public Waters Work Permit from the Minnesota Department of Natural Resources (MNDNR). The proposed project should also follow the MPCA's guidance document for managing dredged materials, if applicable.
4. City of Golden Valley Stormwater Permit
5. City of Golden Valley ROW Permit

Section 404 Permit
The USACE regulates the placement of fill into wetlands, if the wetlands are hydrologically connected to a Waters of the United States, under Section 404 of the Clean Water Act (CWA). In addition, the USACE may regulate all proposed wetland alterations if any wetland fill is proposed. The MPCA may be involved in any wetland mitigation requirements as part of the CWA Section 401 water quality certification process for the 404 Permit.

The BCWMC developed its RMP, which was submitted to the USACE in April 2009 (revised in July 2009), with the goal of completing a conceptual level USACE permitting process for projects proposed. This feasibility study follows the protocols developed for projects within the BCWMC RMP.

The USACE 404 permit requires a Section 106 review for historic and cultural resources. The results of the archeological reconnaissance study are included as ***Appendix D.*** If more detailed information is requested by the State Historic Preservation Office (SHPO), then a Phase I Archaeological Survey may need to be completed. A Phase I Archaeological Survey can be completed in 45 days or less during the frost-free period. The USACE staff anticipates that the 404 permit review and approval process could require 120 days to complete.

Minnesota Wetland Conservation Act
The Wetland Conservation Act (WCA) regulates the filling and draining of wetlands and excavation within Type 3, 4, and 5 wetlands. In addition, the WCA may regulate all types of wetland alteration if any wetland fill is proposed. The WCA is administered by local government units (LGU), which include cities, counties, watershed management organizations, soil and water conservation districts, and townships. The City of Golden Valley is the LGU for the proposed project. The Minnesota Board of Water and Soil Resources (BWSR) oversees the administration of the WCA statewide.

The proposed project will only involve grading existing stream banks and other stream

bank work. This type of work can generally be considered self-mitigating and will not require wetland mitigation, but all work requires review by the LGU.

Minnesota Pollution Control Agency
Based on the findings of the Phase I, it is not anticipated that environmental impacts, such as contaminated soil and debris, will be encountered during the stream restoration activities. As with all excavation projects, the potential risk for encountering unexpected environmental conditions at the time of construction, particularly given the urban environment surrounding this project remains. If environmental impacts are encountered during the creek restoration earthwork, contaminated materials will need to be handled and managed appropriately. The response to discovery of contamination typically includes entering the MPCA's voluntary program. In accordance with MPCA's guidance, a construction contingency plan (CCP) could be prepared for the project, which would include initial procedures for handling materials suspected to be impacted, collecting analytical samples, and determining a path forward with MPCA for managing impacted materials.

Public Waters Work Permit
The MnDNR regulates projects constructed below the ordinary high water level of public waters, watercourses, or wetlands, which alter the course, current, or cross section of the water body. Public waters regulated by the MnDNR are identified on published public waters inventory (PWI) maps. Bassett Creek is a public watercourse, so the proposed work will require a MnDNR public waters work permit.

Local Permits
The City of Golden Valley requires permits for grading work within their jurisdiction. Their requirements should be reviewed in the context of each site's work.

4.2.3 Other Project Impacts

Tree Loss
There are considerable tree removals associated with this project. Due to the anticipated tree removals, two restoration options have been developed to mitigate tree loss. Option 1, that utilizes more non-structural vegetative stabilization practices, requires more bank clearing, shaping to achieve flatter side slopes, and more clearing of canopy trees that would prohibit light from penetrating and developing faster growing ground cover. This bank shaping is anticipated to require the removal of approximately 800 trees. Option 2 utilizes a more hard armor approach can stabilize a steeper side slope, and limit tree removal of approximately 400 trees. All of the trees are located in areas where bank grading or site access will be necessary. A detailed tree inventory will be completed during the final design process. The project costs include tree replacement at each location. Utilization of the Hybrid option is anticipated to reduce tree loss in many areas, compared to that associated with strictly the implementation of a non-structural option.

Water Quality Impacts
The proposed stabilization measures will result in a reduction of the sediment and phosphorus loading to Bassett Creek and all downstream water bodies, including the Mississippi River and Lake Pepin. Using the BCWMC Main Stem Watershed Management Plan (2000) analyses discussed in **Section 2.2.2**, and proportioning removal by reach length, stabilizing this reach is estimated to reduce TP loads by between 60 and 100 pounds per year and TSS loads by between 140,000 and 200,000 pounds per year. This range is dependent on the type of bank treatment utilized and the extent over which the treatment is provided.

4.3 Estimated Project Cost

4.3.1 Estimated Cost

The project cost to complete all of the work outlined in this feasibility study is estimated to range from approximately $1,320,000 to $1,660,000. However, it is understood that at current funding levels, only $1,000,000 is available to complete this work. To address this consideration, similar to past projects, it is proposed to refine the scope of the project during design, bidding and construction as necessary to meet this level of funding. This will be accomplished by limiting work in various areas as necessary to achieve the greatest benefit, taking into consideration resident support, cost for access to property, severity of erosion, and further input from City residents, Staff and Watershed Management Organization. The opinion of cost uses the following assumptions:

- 40% of project costs will be utilized for final design, permitting, construction observation, and contingency.
- Construction easements will not be needed. If construction easements are necessary to construct the project, the cost is expected to be included in the contingency.
- The estimated cost includes testing stream bank material for hazardous compounds that would require treatment of the dredged materials per MPCA regulations.
- Additional work will be required to determine if cultural and/or historical resources are present at any project site.
- Removed trees will be replaced at the rate of 1:8 for the bioengineering approach and 1:4 with the more engineered approach.
- The construction contract(s) will include a three year maintenance and warranty for new vegetation.

While environmental impacts are not anticipated at the currently proposed restoration sites, a construction contingency plan (CCP) is recommended to outline initial

environmental responses if unanticipated contamination is encountered. The cost for preparing the CCP is estimated to be approximately $2,000, which would include both the preparation of the plan and outlining its provisions to client staff and contractors.

The cost for implementing a CCP will depend on the magnitude, nature, and extent of any potential impacts that are encountered. To develop a cost allowance in the absence of identified environmental impacts, the following preliminary estimate has been developed. During the project, it is arbitrarily assumed that about 100 cubic yards (roughly five percent) of the total amount of excavated materials for the project will encounter contaminated soil or debris and require offsite disposal at a landfill. The estimate includes costs for analytical testing, transportation and disposal of impacted materials to a local Resource Conservation and Recovery Act (RCRA) Subtitle D Landfill, backfilling of clean soil, and coordination of the work with the MPCA, contractor, and the owner. Additional assumptions are shown on the estimate. In the event that no impacted materials are encountered during the project, the CCP would not be implemented and related costs would not be incurred. Based on the above assumptions, current transportation rates, and disposal rates at a nearby landfill, the cost estimate for the implementation of the described scenario is $12,000.

Encountering more serious levels of contamination (e.g., RCRA Subtitle C hazardous wastes, PCBs) was not included in the above assumptions and cost estimate. Handling, transport, and disposal of soil or materials classified as hazardous waste could require disposal at a specialized out-of-state landfill and be significantly more expensive.

A feasibility-level opinion of cost for the project construction is included in ***Tables 3a & 3b. Figures 2 & 2*** show the corresponding site numbers and stationing referenced**.**

The feasibility level opinion of cost provided in this report is made on the basis of WSB's experience and qualifications, and represents our best judgment as experienced and qualified professionals familiar with the project. The opinion of cost is based on project-related information available to WSB at this time and includes a conceptual-level design of the project.

4.3.2 Anticipated Project Lifespan

Anticipated lifespan for bioengineering and hard armoring restoration practices can vary considerably depending on watershed characteristics, existing tree canopy, and the typical maintenance regiment each restoration technique receives.

Within this reach of Bassett Creek it is anticipated that the bioengineering restoration methods would be most successful in areas where the tree canopy is not too dense and would not reduce sunlight penetration. Vegetation requiring less sunlight can be used in some locations with more limited sunlight successfully, but this vegetation is generally slower growing and has a reduced ability to stabilize areas rapidly.

The timeframe to reestablish volunteer and invasive trees shrubs along the stream banks would likely be about 10 to 15 years, which would shade vegetation along the bank and needs to be considered in evaluating the life span of a bioengineered method. In addition to management of the surrounding forest along the creek, most of this reach is located on private property and it is difficult to anticipate the level of maintenance each resident may provide, which may significantly reduce its lifespan.

Hard armored restoration practices will have a longer lifespan within this reach and can remain stable under conditions of limited sunlight penetration and reduced maintenance activities, however provide less habitat and natural beauty benefits. . It is anticipated that the life span of a more hard armored stabilization approach would exceed 20 years, and require significantly less ongoing maintenance. For this reason, a hybrid option seems to be warranted in many areas of this reach of Bassett Creek.

4.3.3 30 Year Maintenance Costs/Life Cycle Cost

Estimated 30 year costs for each design alternative is difficult to anticipate due to the greater portion of the project being located on private property, the ability to gain access to the restored areas, and the amount of additional restoration required on private property.

It is estimated that the annual maintenance of the bioengineering practices would be about $5,000 a year for tree clearing, vegetation restoration along the creek, and private property restoration, which comes to approximately $0.50 a foot along this reach 9,400 foot long reach.

It is estimated that the annual maintenance of the more engineered practices would be about $1,000 a year for tree clearing, vegetation restoration along the creek, and private property restoration, which comes to approximately $0.10 a foot along this 9,400 foot long reach.

Estimated 30 year costs for the bioengineering restoration, at an estimated 3% and 4% annual inflation rate, ranges from $248,005 to $266,657. . Estimated 30 year costs for the more hard armoring restoration, at an estimated 3% and 4% annual inflation rate, ranges from $128,005 to $146,657.

Based on a construction cost of approximately $1,000,000, if it is assumed that a 15 to 30 year project benefit will be provided, and an average annual phosphorus reduction over the next 30 years will be 30 pounds per year, assuming other costs for maintenance etc. are negligible, the annualized cost per pound of phosphorus removed as a result of this project would be is anticipated to range from $1,100 to $2,200 per pound. Adding in maintenance costs would increase this cost by approximately 150 to 300 per pound.

4.3.4 Analysis of the Benefits and Impacts of each Restoration Alternative

Analysis of each of the stabilization and restoration methods provides positives and negatives for each method. Bioengineering practices are more preferable and natural method to restore the creek due to the ability to provide more biodiversity and wildlife habitat along this reach. However, the bioengineering approach does allow for a certain amount of natural stream bank erosion and meandering of the creek to occur, which can be problematic within the creeks tight confines on private property. In addition, the bioengineering methods do require routine maintenance over time and due to the proximity of the project on private property, this makes it difficult for the City to provide regular maintenance and it is difficult to depend on local residents to provide the level of maintenance required to keep the bioengineering method viable. Routine maintenance may include removal of invasive species, tree canopy, reshaping, and re-establishment of vegetation in areas of bank failure.

The more hard armored approach does not provide as much biodiversity, it does not allow for as much natural erosion and meandering to occur by provide a more stable channel, which may be requested by the adjacent residents. In addition, the hard armored approach does not require the routine maintenance of vegetation management and tree clearing, thus reducing the overall maintenance.

It is anticipated that this project will incorporate a hybrid of both bioengineering and armored engineered approaches in each reach based on access to the creek, property owner input, and the ability to clear trees along the corridor.

4.4 Funding Sources

The City of Golden Valley proposes the utilization of BCWMC capital improvement program (CIP) funds to fund the project costs. BCWMC channel restoration projects are funded through the BCWMC's CIP and are paid for via an ad valorem tax levied by Hennepin County over the entire Bassett Creek watershed.

4.5 Project Schedule

The design for this project is anticipated to begin in September of 2014. Permits for the project will be submitted in the fall of 2014. The construction work will likely be completed during the fall of 2015 through the spring of 2016. For project work to occur in 2014, the BCWMC must hold a public hearing and order the project in time for the BCWMC's submittal of its 2015 ad valorem tax levy request to Hennepin County in September 2014. If project construction is to occur in fall or winter, it is recommended that the project bidding take place in the summer. This will allow contractors to acquire plants and seeds at a reasonable price for the required quantities. In the intervening time, the City will gather public input, prepare the final design, and obtain permits.

Table 3a. Site Locations, Potential Bioengineering Stream Stabilization Practices, and Overall Opinion of Cost for the 2015 Bassett Creek Main Stem Restoration Project

Site Locations, Potential Stream Stabilization Practices, and Overall Opinion of Cost for the 2015 Bassett Creek Main Stem Restoration Project				
Site Number	**Site Station[1]**	**Site Length (ft)**	**Proposed Stream Stabilization Practice**	**Estimate Site Expense**
1	1+50	-	Remove 30 in Cotton Wood Tree	$2,000.00
2	0+50-8+00	750	Reshape and Stabilize Streambanks with 12 in Biolog and 12 in Live Fascine (1,500 ft) Remove 120 Trees	$171,000.00
3	4+50	-	Remove 36 in Cottonwood Tree	$2,000.00
4	5+75	-	Remove 42 in Cottonwood Tree	$2,000.00
5 & 6	8+00 & 9+00	100	Remove Existing Gabions and Grouted Rip Rap at Culvert Place 30 tons of Class III Fieldstone Rip Rap at Each End of Culvert	$6,000.00
7	36+50 to 41+50	500	Reshape and Stabilize Streambanks with 12 in Biolog with 1 ft section of Class II Fieldstone Rip Rap (1,000 ft) Install 6 Root Wads Install 6 Rock Vanes Remove 75 Trees	$68,250.00
8	43+25	-	Remove 68 in Cottonwood Tree	$2,000.00
9	42+50 to 45+50	300	Reshape and Stabilize Streambanks with 12 in Biolog and a 1 ft Section of Class II Fieldstone Rip Rap (600 ft) Install 5 Root Wads Install 5 Rock Vanes Remove 75 trees	$56,250.00

10	48+00 to 53+50	550	Reshape and Stabilize Streambanks with 12 in Biolog and a 1 ft Section of Class II Fieldstone Rip Rap (1100 ft) Install 5 Root Wads Install 5 Rock Vanes Remove 80 Trees	$84,700.00
11	50+90	-	Stabilize 12 in FES	$1,000.00
12	54+75	-	Remove 66 in Cottonwood Tree	$2,000.00
13	56+00	-	Remove (5) 50 in and greater Cottonwood Trees	$10,000.00
14	54+50 to 58+70	420	Reshape and Stabilize Streambanks with 12 in Biolog and 1 ft Section of Class II Fieldstone Rip Rap (840 ft) Remove 75 Trees	$62,450.00
15	58+70 to 59+70	100	Reshape and Stabilize Streambanks with a 6 ft section of Fieldstone Boulders (200 ft)	$102,500.00
16	65+20	-	Reattach FES and Pipe Tie joints Reinstall sheet piling under FES	$10,000.00
17	62+75	-	Install 8" Galvanized FES on 8 in CMP	$750.00
18	63+80 to 64+60	80	Remove block wall (80 ft)	$500.00
19	62+50 to 80+50	1500	Reshape and Stabilize Streambanks with 12 in Biolog and 1 ft Section of Class II Fieldstone Rip Rap (3,600 ft) Install 28 Root Wads Install 25 Rock Vanes Remove 200 Trees	$275,900.00
20	68+50 to 71+00	250	Stabilize streambank with VRSS (305 sq yd)	$76,250.00
21 & 22	76+00 & 77+00	100	Install Turf Reinforcement Mat on Peninsulas (700 sq yd)	$8,500.00

23	83+00 to 94+00	1100	Reshape and Stabilize Streambanks with 12 in Biolog and 12 in Live Fascine (2,200 ft) Install 18 Root Wads Install 17 Rock Vanes Remove 175 Trees	$184,050.00
24	86+50 to 86+70	20	Remove gabion baskets (20ft)	$1,000.00
25	87+60	-	Install FES on 12 in and 24 in RCP pipe	$2,000.00
26	87+90	-	Install Galvanized FES on 12 in PVC pipe	$750.00
27	89+25	-	Install FES on 12 in RCP and PVC pipe	$1,500.00
28	89+90	-	Install FES on 12in RCP	$1,000.00
29	90+80 to 91+00	20	Remove gabion baskets (20 ft)	$1,000.00
			Construction Subtotal	$1,135,350.00
			Construction Contingency (20%)	$227,070.00
			Design, Permitting and Administration (15%)	$170,302.50
			Contingency for Contaminated Soils (3%)	$34,060.50
			Additional Cultural and Historical Investigation	$7,500.00
			3- Year Vegetation Warranty and Manteca Period (7.5%)	$85,151.25
			Total	$1,659,434.25

[1] Steam Stationing: 0+00 is located at the end of the culvert north of 10th Ave at Rohde Island Avenue

Table 3b. Site Locations, Potential Engineered (Hard Armoring) Stream Stabilization Practices, and Overall Opinion of Cost for the 2015 Bassett

Site Locations, Potential Stream Stabilization Practices, and Overall Opinion of Cost for the 2015 Bassett Creek Main Stem Restoration Project				
Site Number	**Site Station[1]**	**Site Length (ft)**	**Proposed Stream Stabilization Practice**	**Estimate Site Expense**
1	1+50	-	Remove 30 in Cotton Wood Tree	$2,000.00
2	0+50-8+00	750	Reshape and Stabilize Streambanks with 2 ft section of Class II Fieldstone Rip Rap (1,500 ft) Remove 50 trees	$90,500.00
3	4+50	-	Remove 36 in Cottonwood Tree	$2,000.00
4	5+75	-	Remove 42 in Cottonwood Tree	$2,000.00
5 & 6	8+00 & 9+00	100	Remove Existing Gabions and Grouted Rip Rap at Culvert Place 30 tons of Class III Fieldstone Rip Rap at Each End of Culvert	$6,000.00
7	36+50 to 41+50	500	Reshape and Stabilize Streambanks with 2 ft section of Class II Fieldstone Rip Rap (1,000 ft) Remove 50 Trees	$64,500.00
8	43+25	-	Remove 68 in Cottonwood Tree	$2,000.00
9	42+50 to 45+50	300	Reshape and Stabilize Streambanks with 2 ft section of Class II Fieldstone Rip Rap (600 ft) Remove 30 trees	$38,700.00
10	48+00 to 53+50	550	Reshape and Stabilize Streambanks with 2 ft section of Class II Fieldstone Rip Rap (1100 ft) Remove 40 Trees	$67,200.00
11	50+90	-	Stabilize 12 in FES	$1,000.00
12	54+75	-	Remove 66 in Cottonwood Tree	$2,000.00
13	56+00	-	Remove (5) 50 in and greater Cottonwood Trees	$10,000.00

14	54+50 to 58+70	420	Reshape and Stabilize Streambanks with 2 ft section of Class II Fieldstone Rip Rap (840 ft) Remove 20 Trees	$53,700.00
15	58+70 to 59+70	100	Reshape and Stabilize Streambanks with a 6 ft section of Fieldstone Boulders (200 ft)	$102,500.00
16	65+20	-	Reattach FES and Pipe Tie joints Reinstall sheet piling under FES	$10,000.00
17	62+75	-	Install 8" Galvanized FES on 8 in CMP	$750.00
18	63+80 to 64+60	80	Remove block wall (80 ft)	$500.00
19	62+50 to 80+50	1500	Reshape and Stabilize Streambanks with 2 ft section of Class II Fieldstone Rip Rap (3,600 ft) Remove 130 Trees	$219,700.00
20	68+50 to 71+00	250	Reshape and Stabilize Streambank with 9 ft Fieldstone Boulder section (250 ft)	$76,250.00
21 & 22	76+00 & 77+00	100	Install Turf Reinforcement Mat on Peninsulas (700 sq yd)	$8,500.00
23	83+00 to 94+00	1100	Reshape and Stabilize Streambanks with 2 ft section of Class II Fieldstone Rip Rap (2,200 ft) Remove 80 Trees	$134,400.00
24	86+50 to 86+70	20	Remove gabion baskets (20ft)	$1,000.00
25	87+60	-	Install FES on 12 in and 24 in RCP pipe	$2,000.00
26	87+90	-	Install Galvanized FES on 12 in PVC pipe	$750.00
27	89+25	-	Install FES on 12 in RCP and PVC pipe	$1,500.00
28	89+90	-	Install FES on 12in RCP	$1,000.00
29	90+80 to 91+00	20	Remove gabion baskets (20 ft)	$1,000.00

Construction Subtotal	$901,450.00
Construction Contingency (20%)	$180,290.00
Design, Permitting and Administration (15%)	$135,217.50
Contingency for Contaminated Soils(3%)	$27,043.50
Additional Cultural and Historical Investigation	$7,500.00
3- Year Vegetation Warranty and Manteca Period (7.5%)	$67,608.75
Total	$1,319,109.75

[1] Steam Stationing: 0+00 is located at the end of the culvert north of 10th Ave at Rohde Island Avenue

5 References

Barr Engineering Co., *Bassett Creek Watershed Management Plan*, Bassett Creek Watershed Management Commission, 2004.

Barr Engineering Co. and Hennepin County, county ditch records.

WSB & Associates, Inc. City of Golden Valley consulting engineer.

Blondo Consulting, LLC cultural resource survey and report.

Hoisington Koegler Group, Inc., *Bassett Creek Valley Master Plan*, Bassett Creek Valley Redevelopment Oversight Committee, City of Minneapolis, 2007.

Natural Resources Conservations Service – Minnesota, *Shallow Water Management for Shorebirds*, USDA, 2001

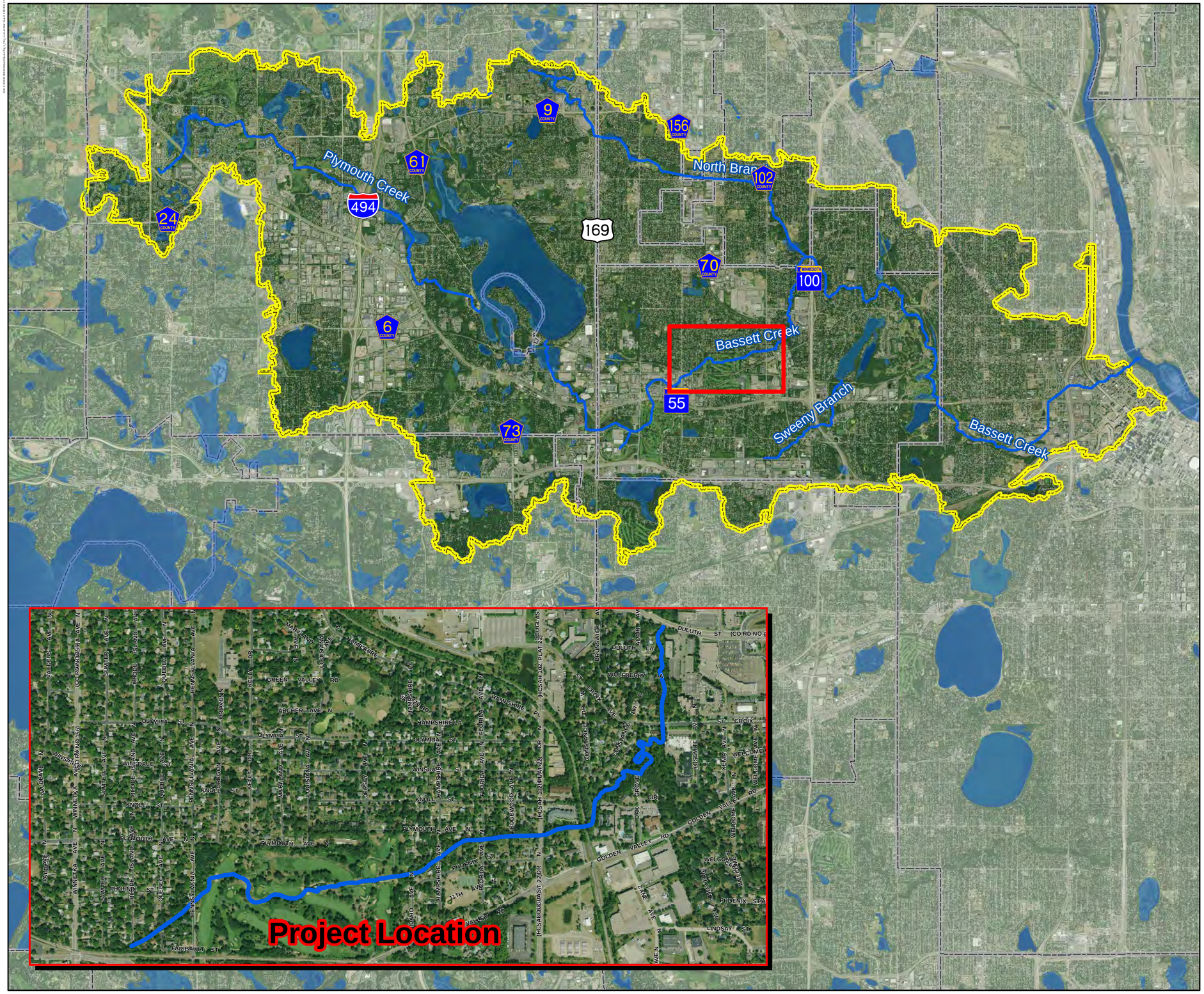
US Department of the Interior – Fish and Wildlife, *Management of Seasonally Flooded Impoundments for Wildlife*, Resource Publication 148, 1982.

USACE, *Interim Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region*, 2008.

2015 Bassett Creek Restoration Feasibility Study

Appendix A

Figures



city of golden valley

Bassett Creek Watershed Management Commission

Feasibility Study for the 2015 Bassett Creek Main Stem Restoration City of Golden Valley Minnesota

Figure 1

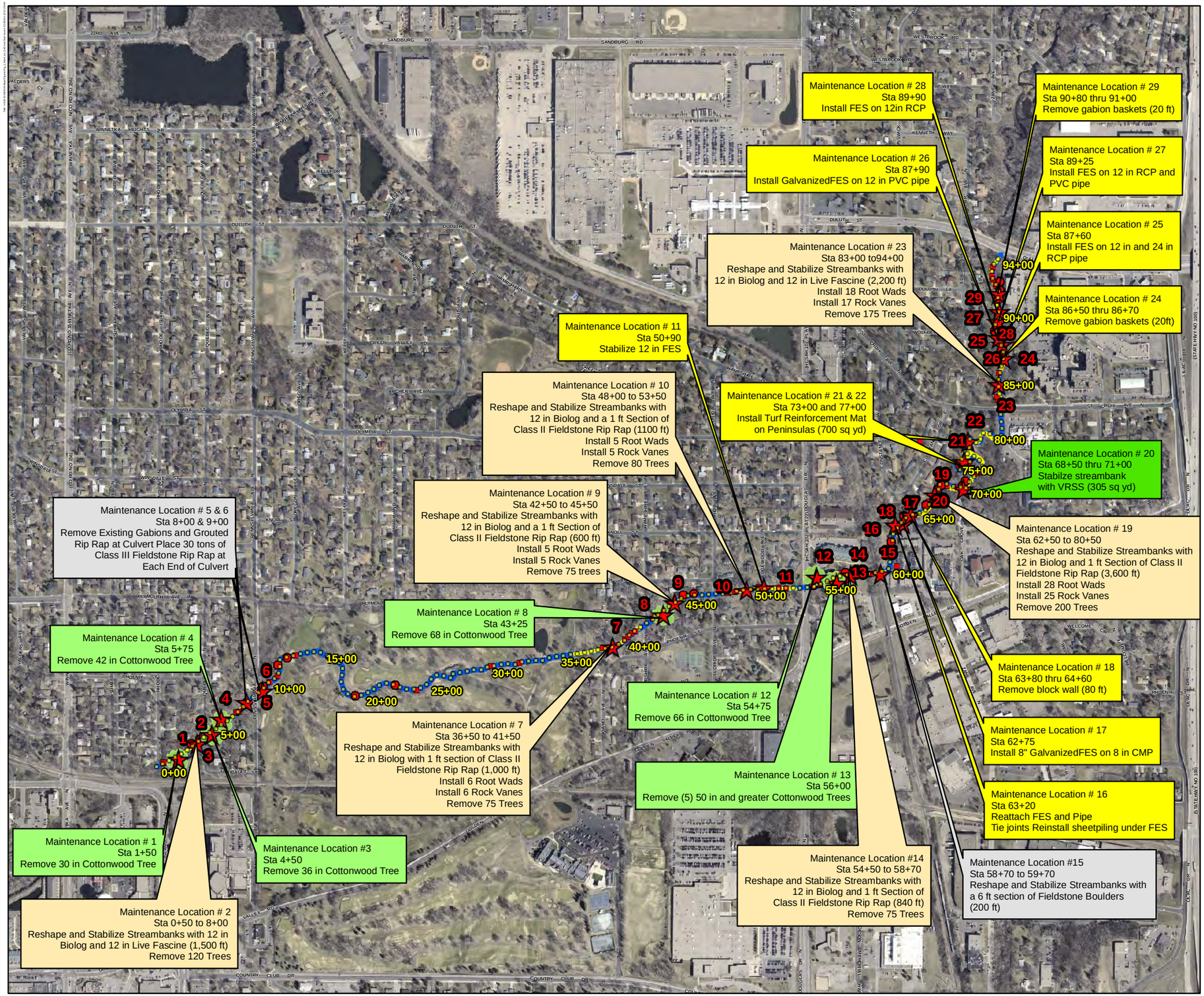
Legend

- Bassett Creek Watershed
- Surface Water
- Creeks/Stream
- City Boundary

N

0 2,500 5,000 10,000 Feet

WSB & Associates, Inc.



city of golden valley

Bassett Creek Watershed Management Commission

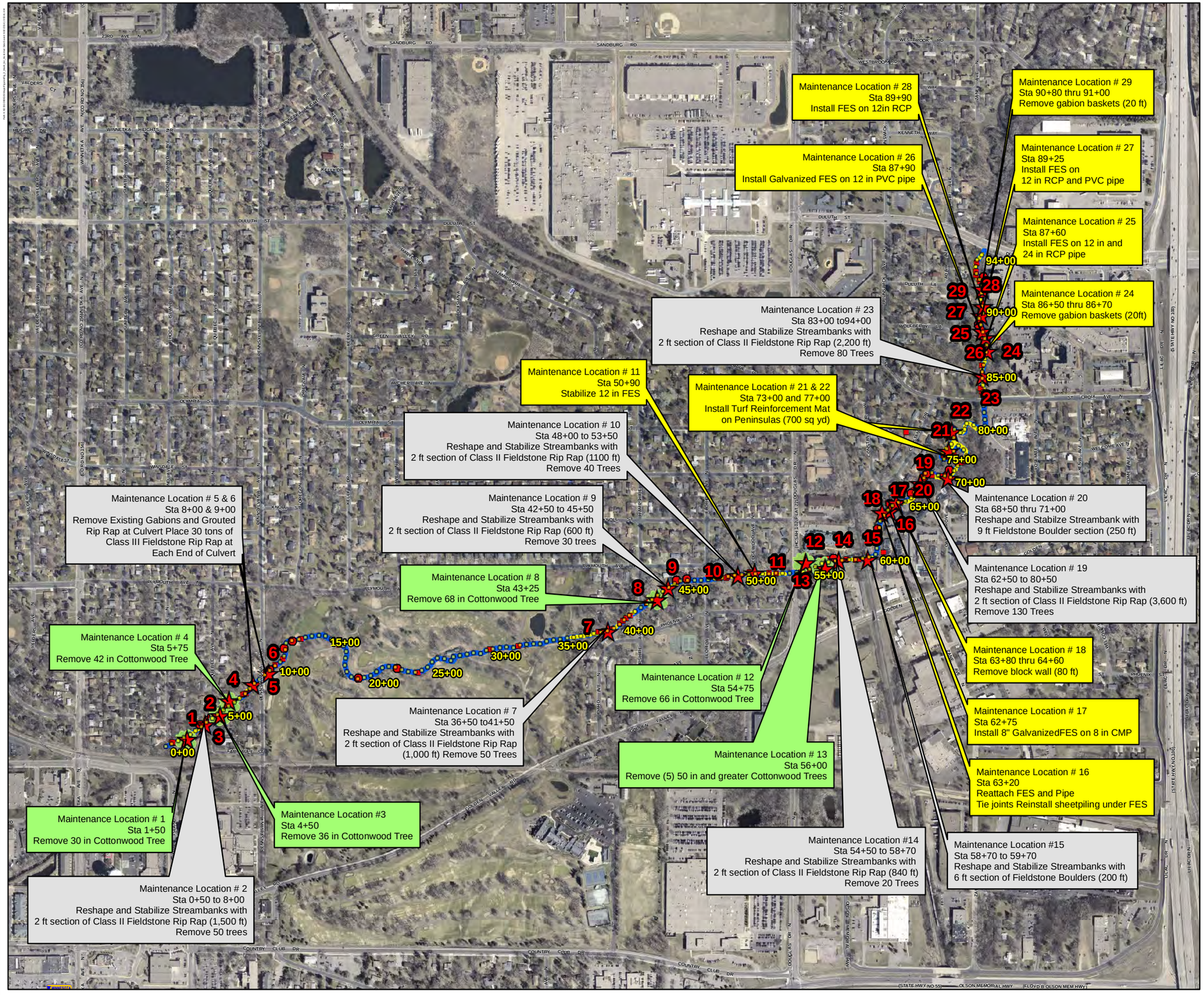
Feasibility Study for the 2015 Bassett Creek Main Stem Restoration City of Golden Valley Minnesota

Option 1 Proposed Soft Armoring Maintenance Locations Figure 2

Legend

- Identified Maintenance Location
- Maintenance Location
- Large Tree Removal
- Observed Bank Erosion
- Photos
- 2015 Bassett Creek

WSB & Associates, Inc



Feasibility Study for the 2015 Bassett Creek Main Stem Restoration City of Golden Valley Minnesota

Option 2 Proposed Hard Armoring Maintenance Locations

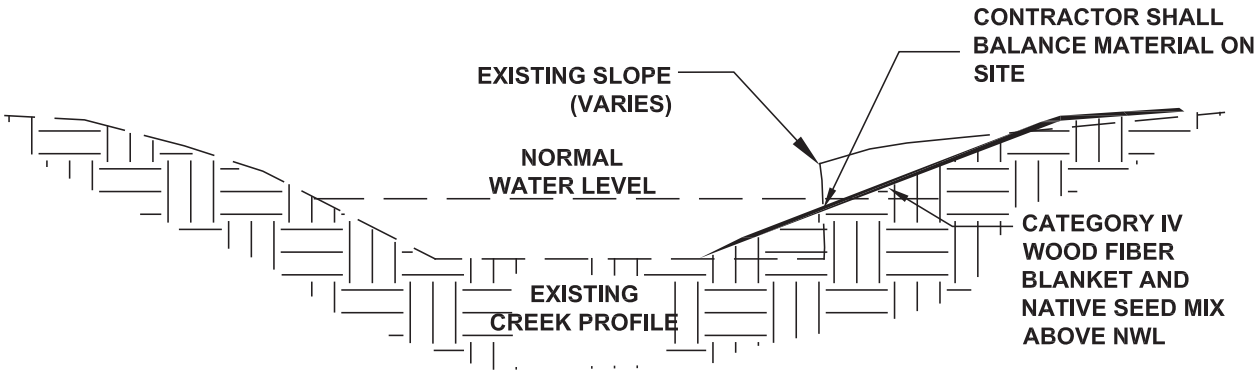
Figure 3

Legend

- Identified Maintenance Location
- Maintenance Location
- Large Tree Removal
- Observed Bank Erosion
- Photos
- 2015 Bassett Creek

N

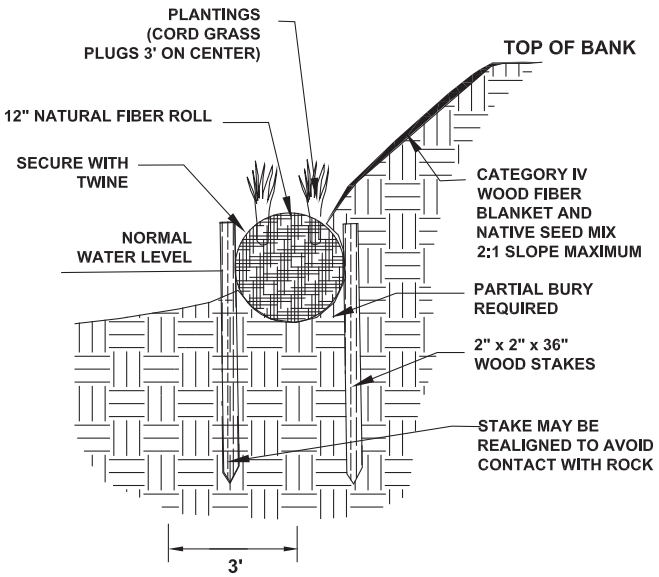
0 250 500 1,000 Feet



Slope Preparation

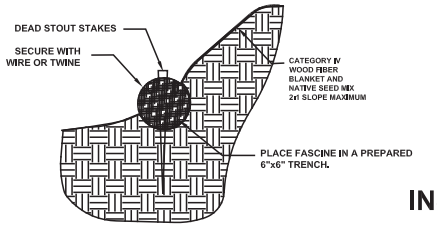
This work consists of shaping the contours of the maintenance areas to achieve slopes as shown on the plans. Slope preparation will aid in the placement of the selected slope stabilization method. It is anticipated that earthwork on this project will balance on site.

Bio-log Bank Protection (With or Without Stone)

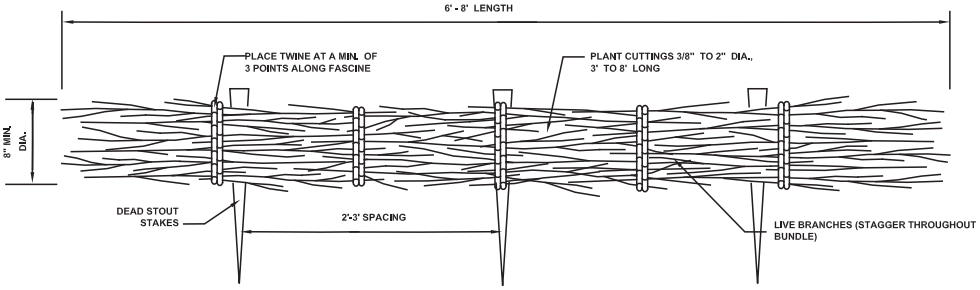


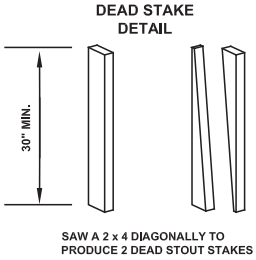
Bio-log Bank Protection

Bio-logs are natural fiber rolls made from coir fiber that are laid along the toe of the stream bank slope to stabilize the toe of the stream bank. The bio-logs are typically 12 inches in diameter. Because they are made of natural fiber, vegetation can grow on the bio-logs. When needed, grading of the stream bank slope above the bio-log will achieve a more stable slope (2:1 to 3:1). Cord grass plugs will be placed within the bio-log three feet on center.



FASCINE INSTALLATION DETAIL

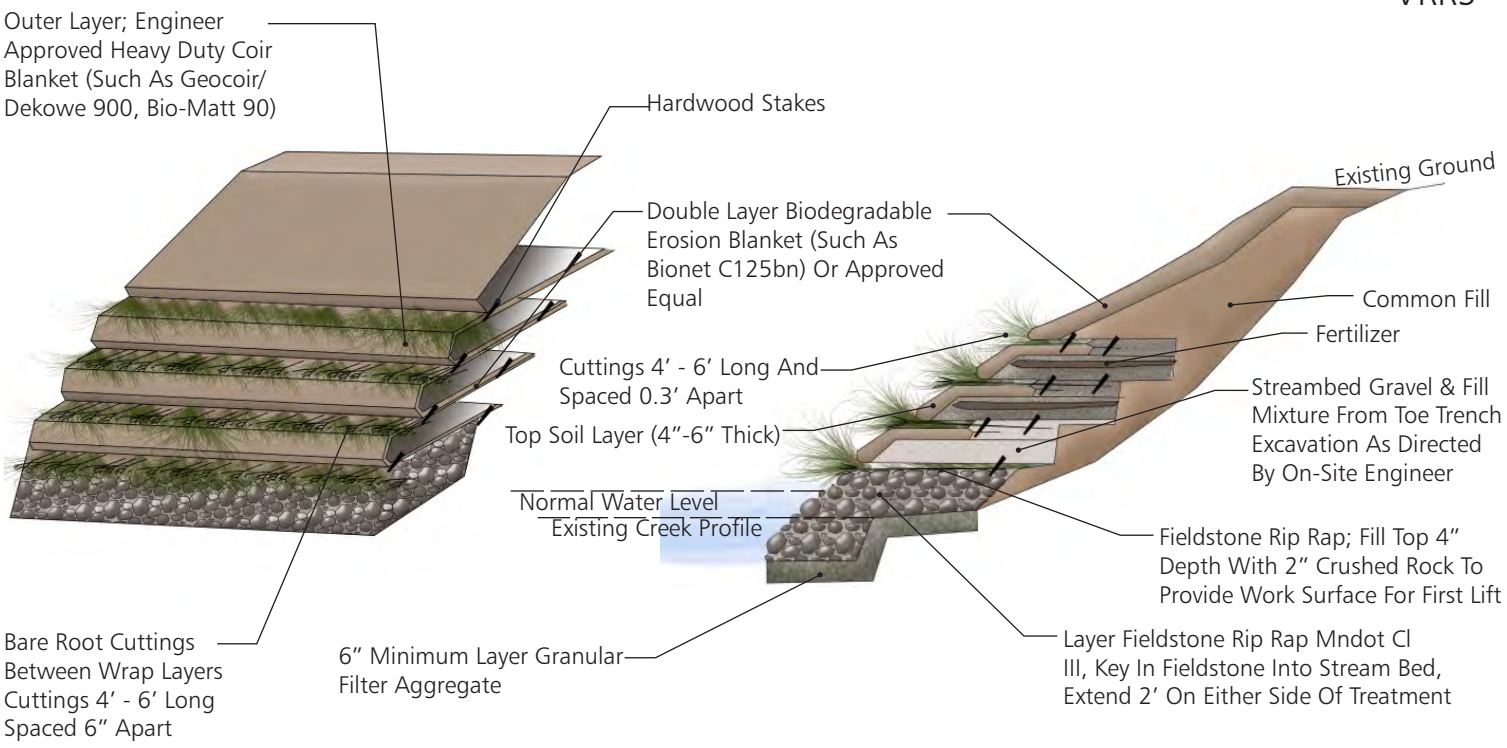




Live Fascines

Live fascines also use dormant willow and dogwood cuttings installed during the dormant season. In this case, the cuttings are bundled together and planted in a row parallel to the stream flow. They can be effective in reducing sheet erosion along a slope because a portion of the fascine extends above the ground surface

VRRS

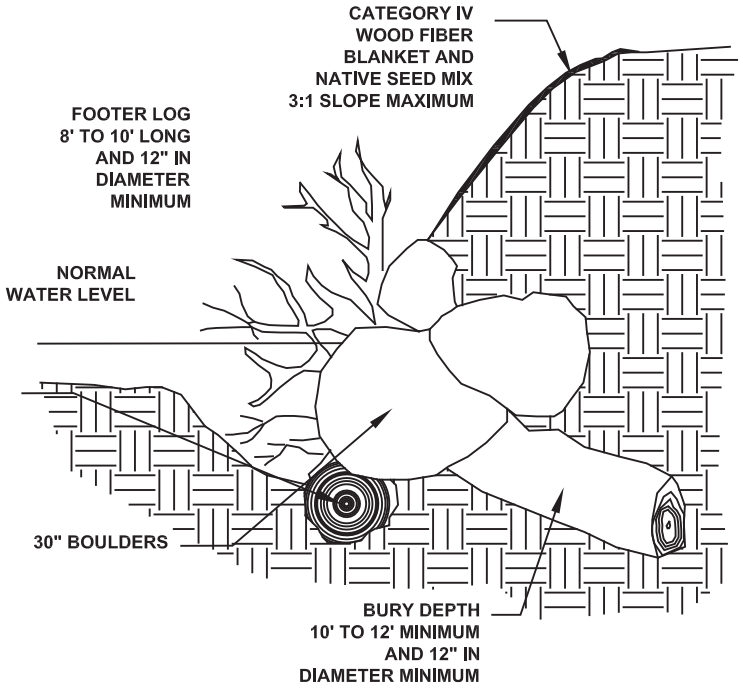


Vegetated Reinforced Slope Stabilization (VRSS)

VRSS is a bioengineering method that combines rock, geosynthetics, soil, and plants to stabilize steep, eroding banks. Vrss typically involves protecting layers of soil with a blanket or geotextile material creating "soil lifts" (also called "soil pillows") and vegetating the slope. The vegetation root system provides the long-term slope stabilization.

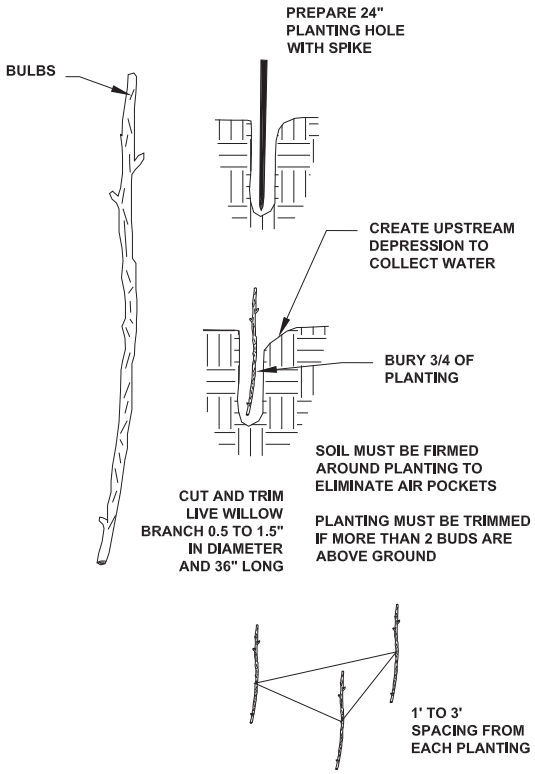
Before

After



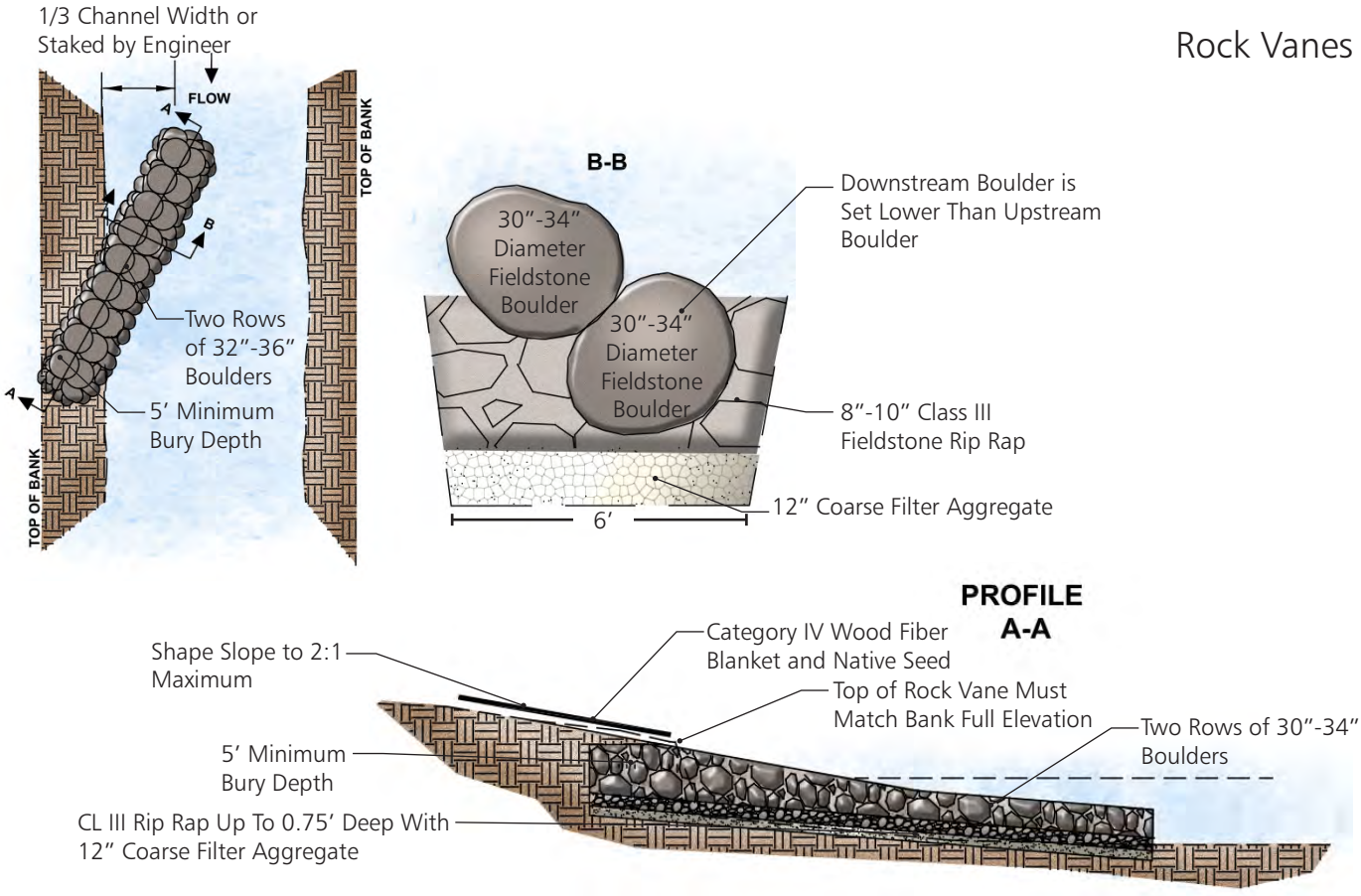
Root Wads

Root wads are constructed from root balls of trees removed as part of this project. The trunks are buried into the bottom of the stream bank, with the root wad end sticking out into the stream. Supporting "footer logs" and boulders are used to stabilize the root wads.



Live Stakes

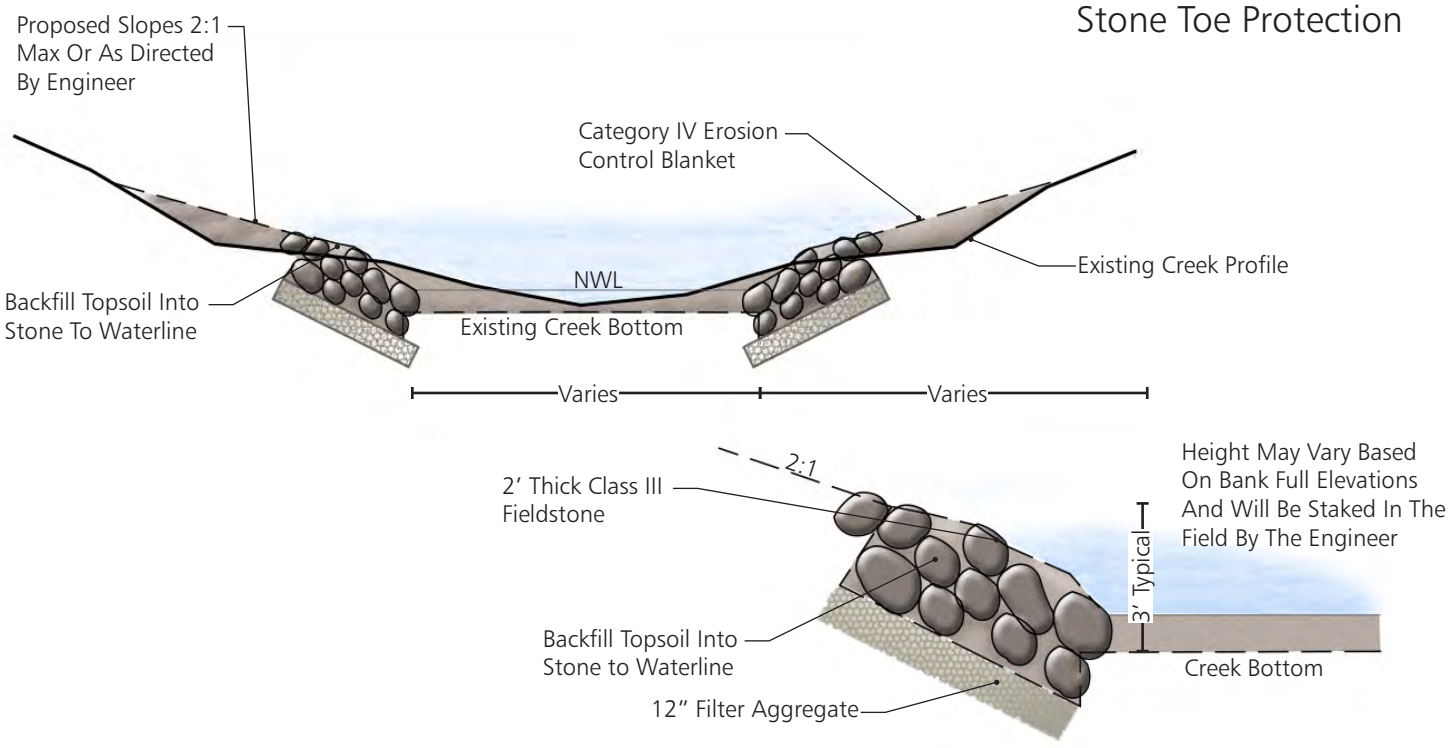
Live stakes are dormant stem cuttings, typically willow and dogwood species. They are collected and installed during the dormant season and grow new roots and leaves revegetating a stream bank. Materials will be cut and placed in a container of water to be transported to the site and kept in water until installed. Taper the cutting with the end going into the ground at right angles to the slope face, 2/3 - 3/4 of their length. Care shall be taken not to split the ends or damage the bark of the cuttings. The engineer shall stake the location of live stakes in the field.



Rock Vanes

Rock vanes, or j-vanes, are constructed of boulders embedded into the creek bottom. The vanes are embedded (five feet) in the stream bank and are oriented upstream (20 to 30 degrees) to direct the flow away from that bank. J-vanes will not occupy no more than one-third of the channel width.

Stone Toe Protection



Fieldstone Rip Rap

Fieldstone rip rap will be used to protect the toe of the stream bank. In stream systems, rip rap consists of cobble-sized rock (12 inches to 18 inches in diameter). The riprap is keyed in to the streambed and extends up the reshaped slope and cannot extend past the top of bank. The exact location and elevation of the stone toe will be staked in the field by the engineer. Hand placement of fieldstone rip rap will be required and will be directed by the engineer. Placement of fieldstone rip rap must not result in a decrease of channel cross section.

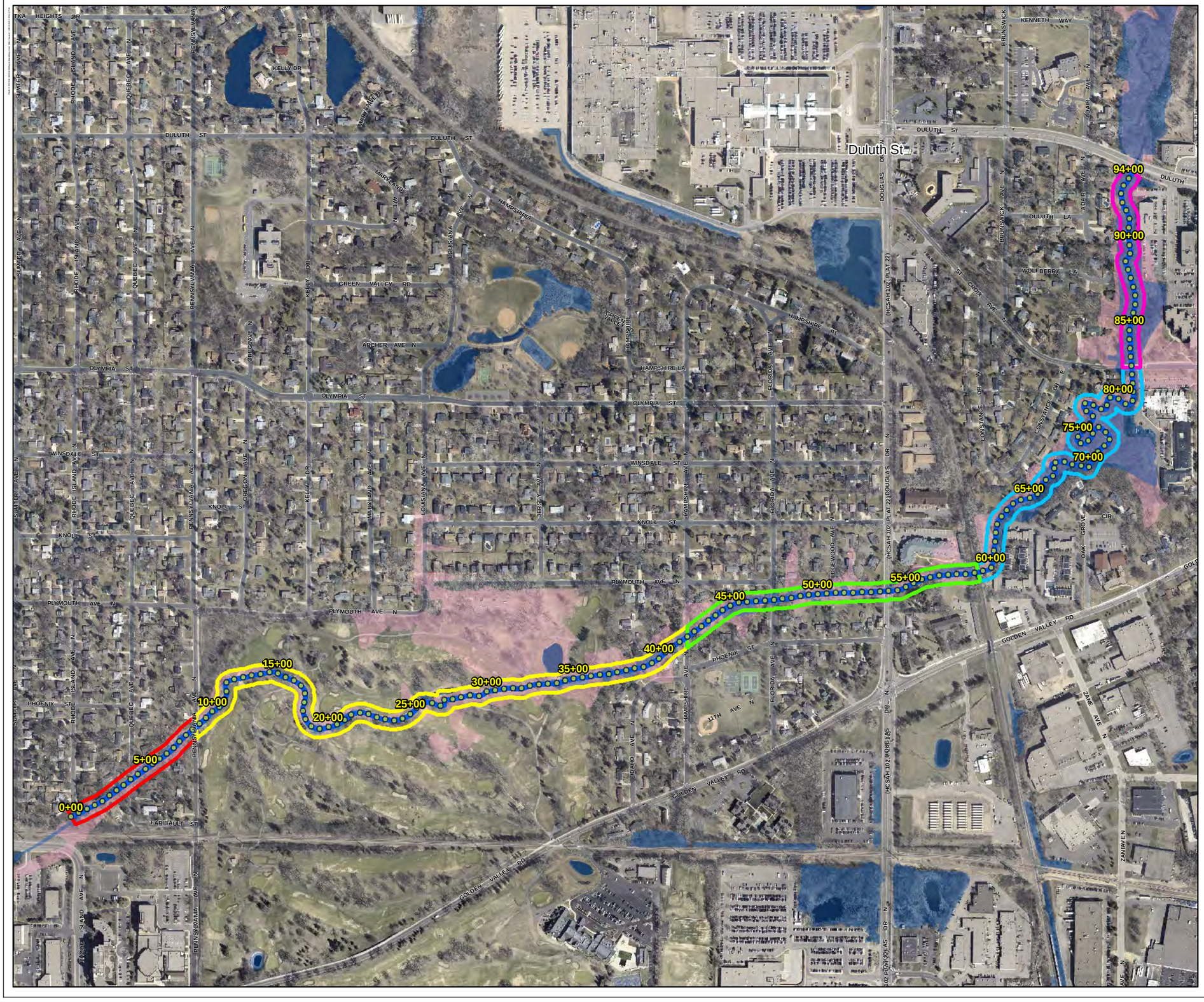
Before | After

Fieldstone Boulder

Fieldstone boulder will be used to protect the toe of the stream bank. In stream typically consists of boulder-sized rock (30 inches to 34 inches in diameter) placed over a half foot thick layer of class i fieldstone rip rap and a half foot layer of coarse filter aggregate. The boulder will extend up the reshaped slope and cannot extend past the top of bank. The exact location and elevation of the boulder toe will be staked in the field by the engineer. Placement of fieldstone boulders must not result in a decrease of channel cross section.

Before

After



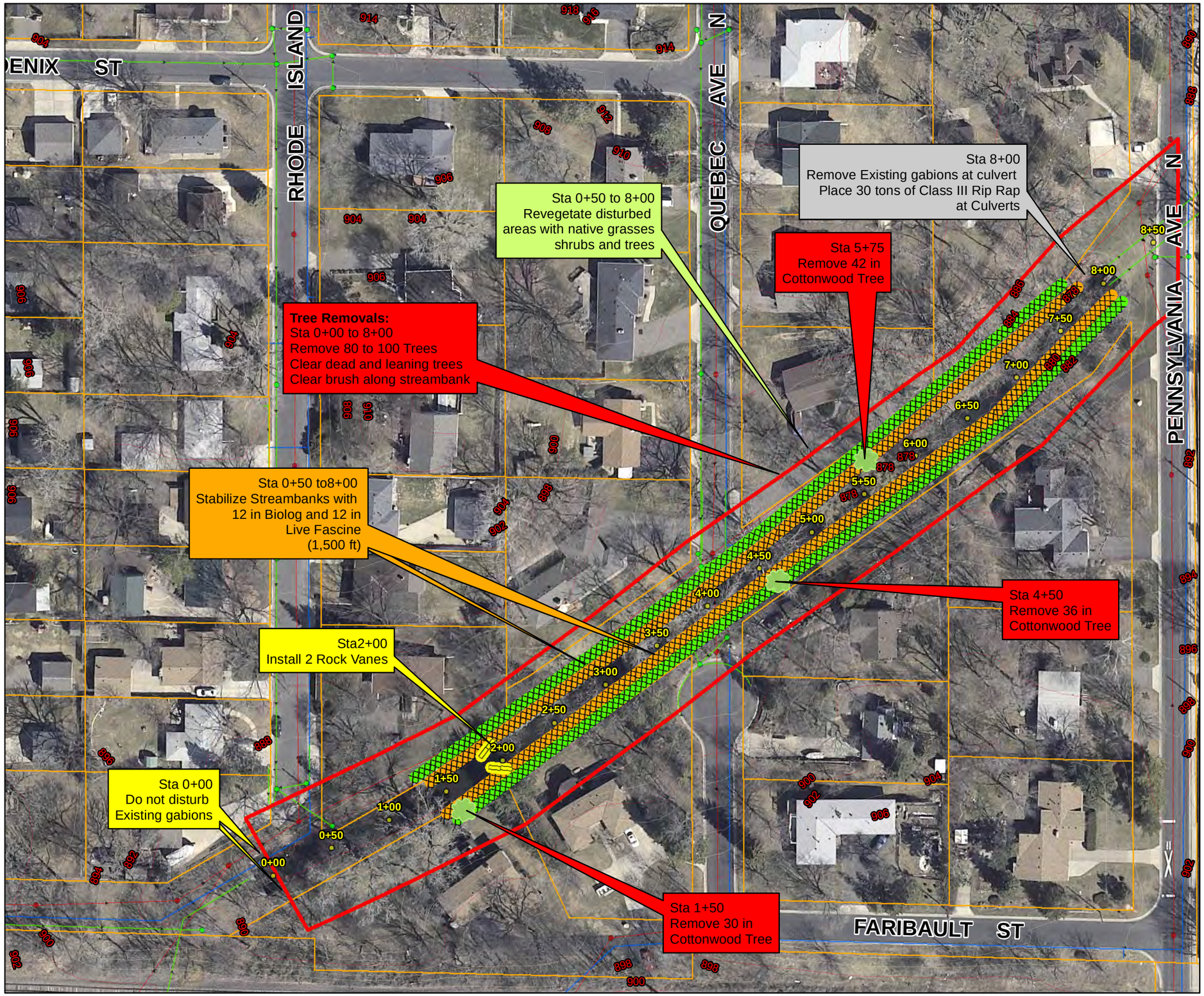
Feasibility Study for the 2015 Bassett Creek Main Stem Restoration City of Golden Valley Minnesota

Legend

- 2015 Bassett Creek Restoration Project
- Area A
- Area B
- Area C
- Area D
- Area E
- NWI
- 100 Year Flood Elev

N

0 250 500 1,000 Feet



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Bassett Creek Watershed Management Commission

Feasibility Study for the 2015 Bassett Creek Main Stem Restoration City of Golden Valley Minnesota

Soft Armoring Option Area A

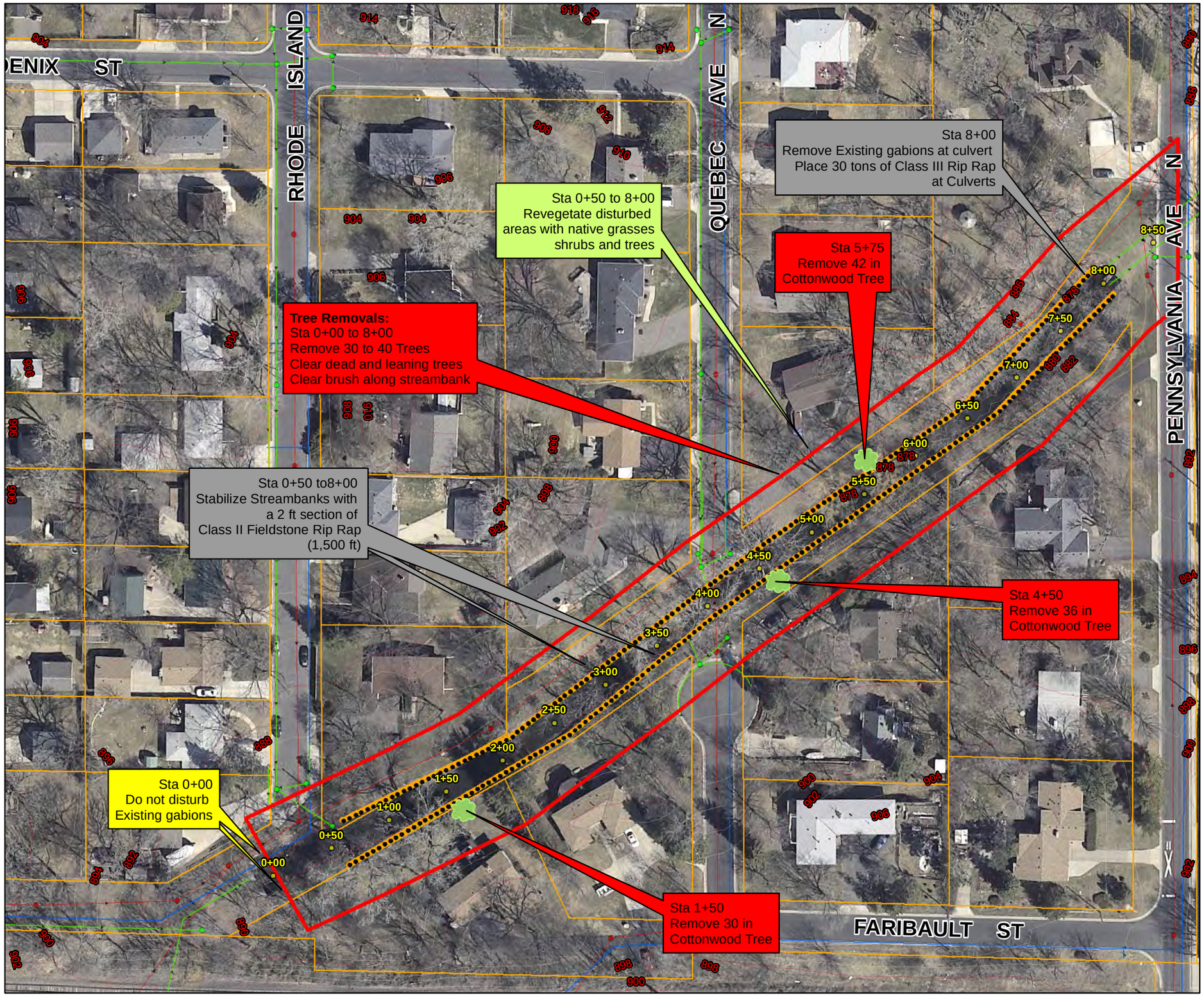
Legend

- Area A
- Rock Vane
- Biolog
- Live Fascine
- Parcel Boundaries
- Index (10-Foot)
- Intermediate (2-Foot)
- Storm Sewer
- Watermain
- Sanitary Sewer

N

0 25 50 100 Feet

WSB & Associates, Inc.



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Bassett Creek Watershed Management Commission

Feasibility Study for the 2015 Bassett Creek Main Stem Restoration City of Golden Valley Minnesota

Hard Armoring Option Area A

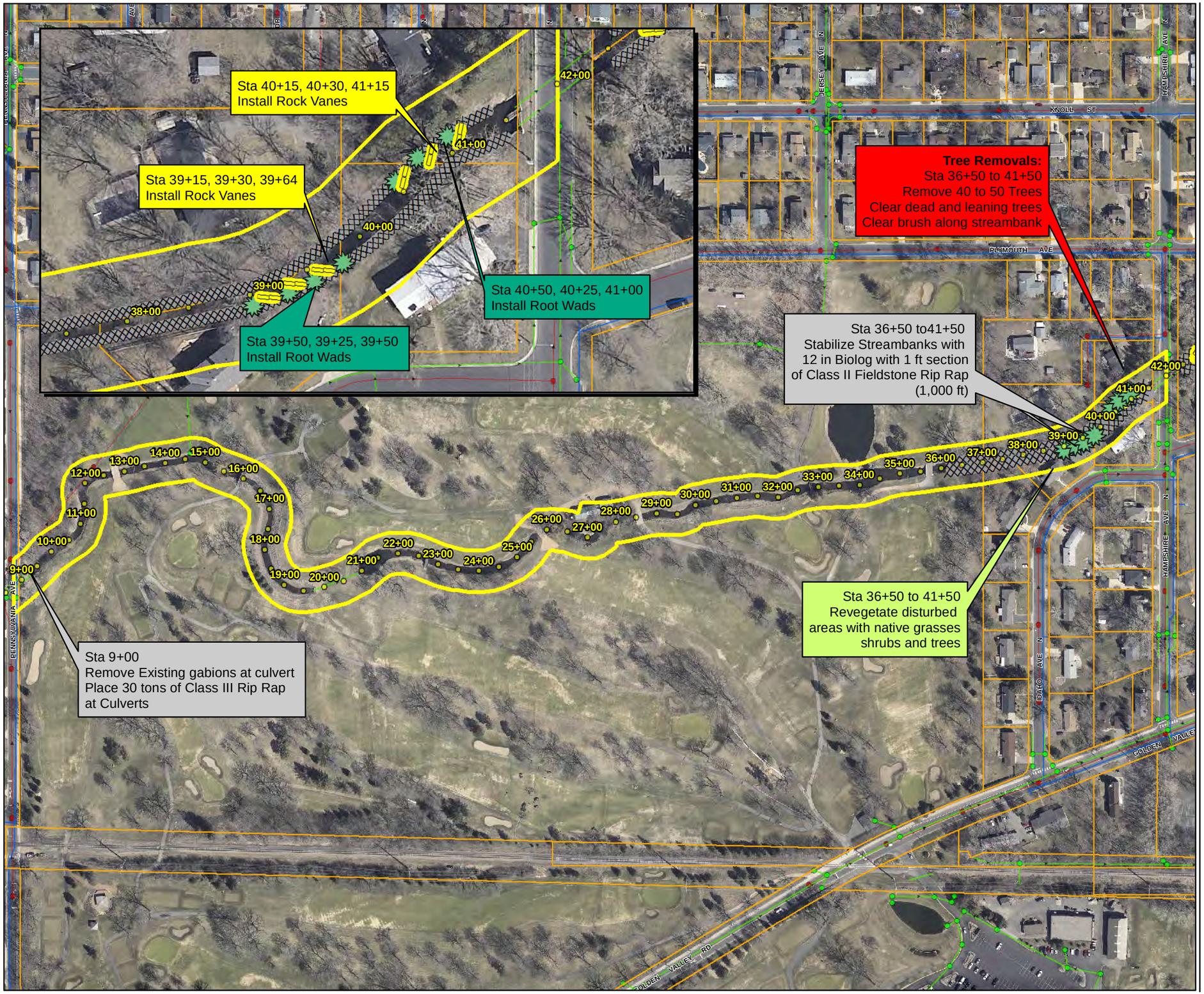
Legend

- Area A
- Fieldstone
- Parcel Boundaries
- Index (10-Foot)
- Intermediate (2-Foot)
- Storm Sewer
- Watermain
- Sanitary Sewer

N

0 25 50 100 Feet

WSB & Associates, Inc.



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Bassett Creek Watershed Management Commission

Feasibility Study for the 2015 Bassett CreekMain Stem Restoration Project City of Golden Valley Minnesota

Soft Armoring Option Area B

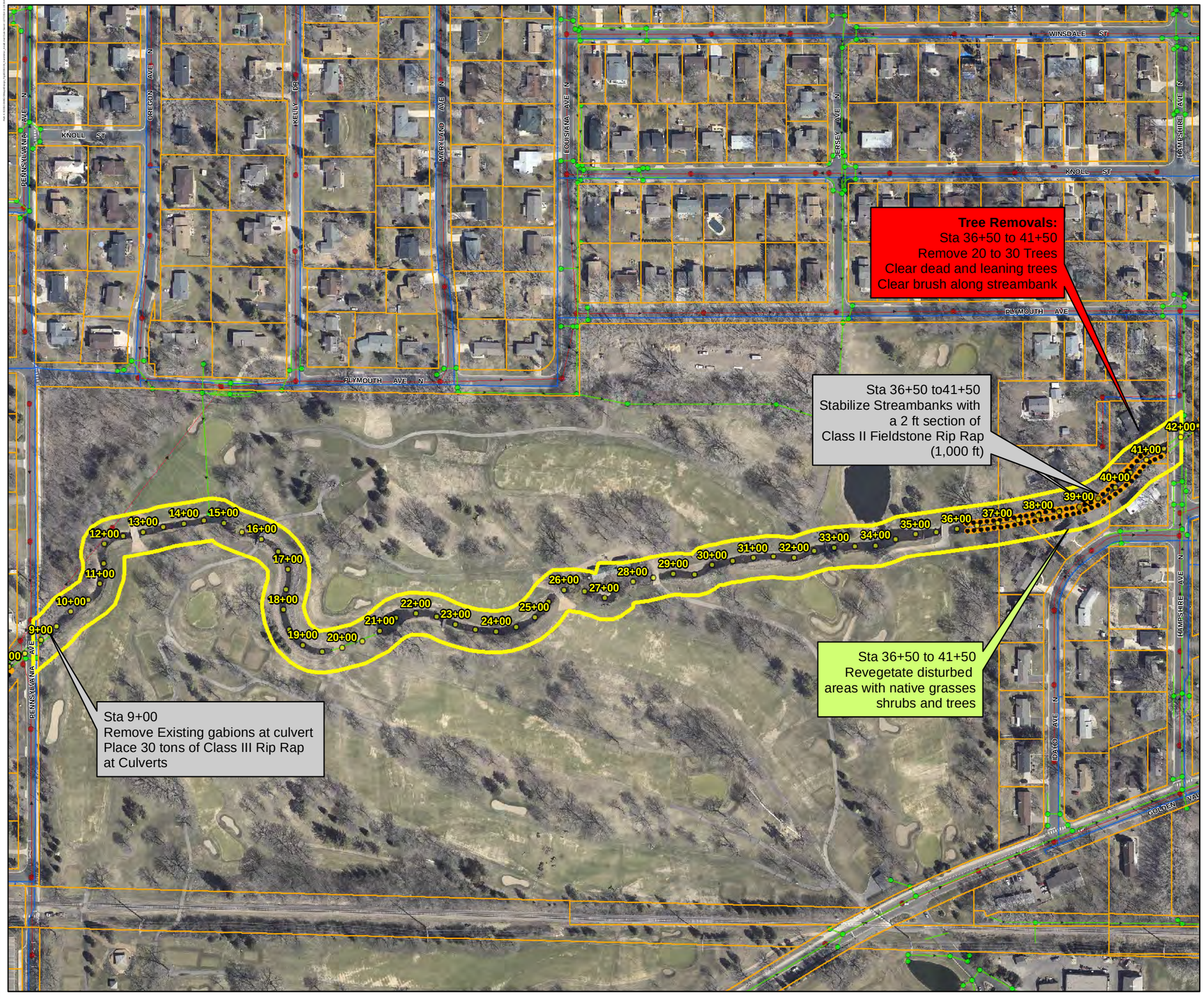
Legend

- Large Tree
- Area B
- Root_Wad
- Rock Vane
- Biolog Fieldstone
- Biolog
- Parcel Boundaries
- Storm Sewer Manholes
- Storm Sewer
- Watermain
- Sanitary Sewer
- Sanitary Sewer Manhole

N

0 50 100 200 Feet

WSB & Associates, Inc.



city of golden valley

Bassett Creek Watershed Management Commission

Feasibility Study for the 2015 Bassett CreekMain Stem Restoration Project City of Golden Valley Minnesota

Hard Armoring Option Area B

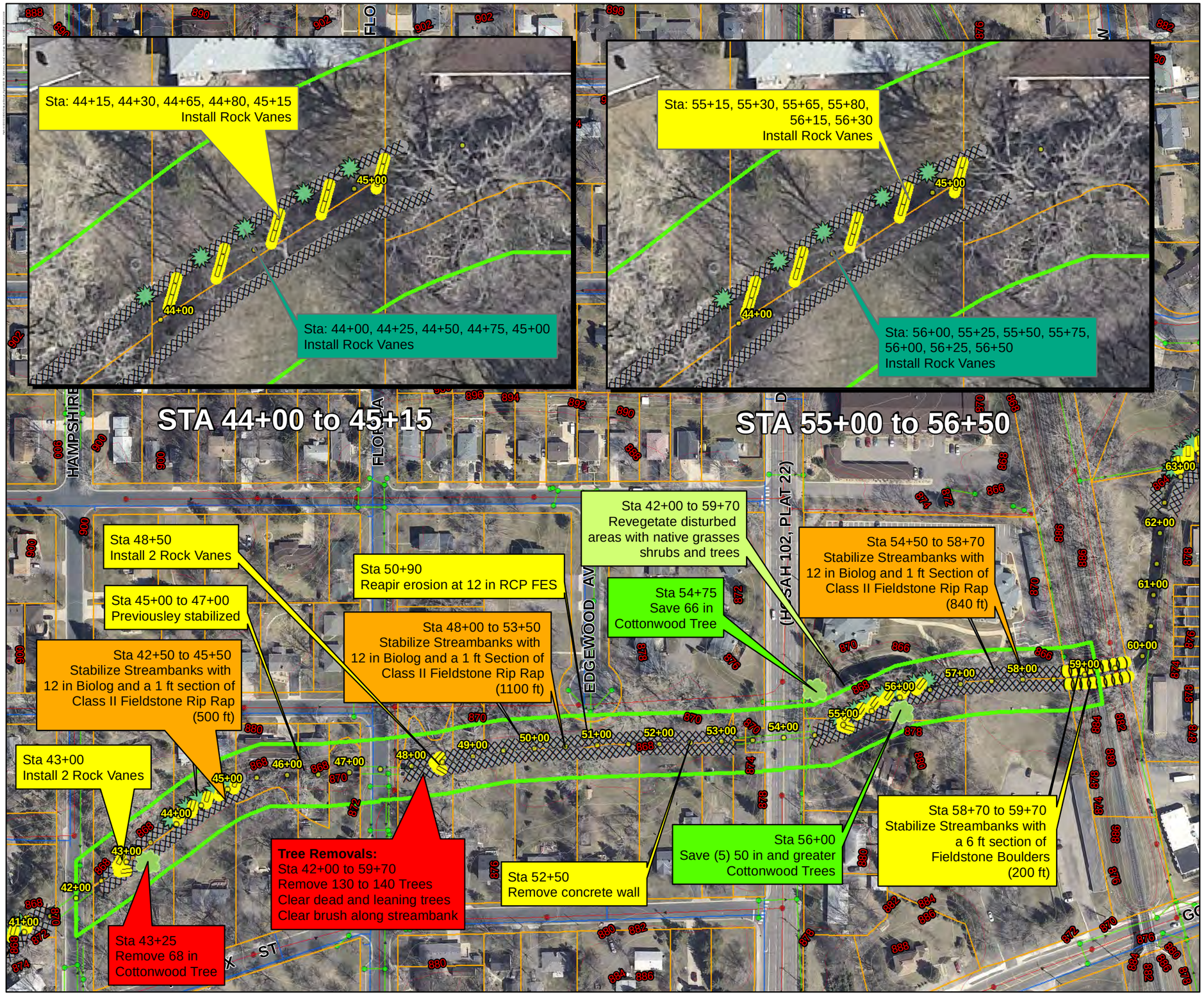
Legend

- Large Tree
- Area B
- Fieldstone
- Parcel Boundaries
- Storm Sewer Manholes
- Storm Sewer
- Watermain
- Sanitary Sewer
- Sanitary Sewer Manhole

N

0 50 100 200 Feet

WSB & Associates, Inc.



Feasibility Study
for the
2015 Bassett CreekMain Stem Restoration Project
City of Golden Valley
Minnesota

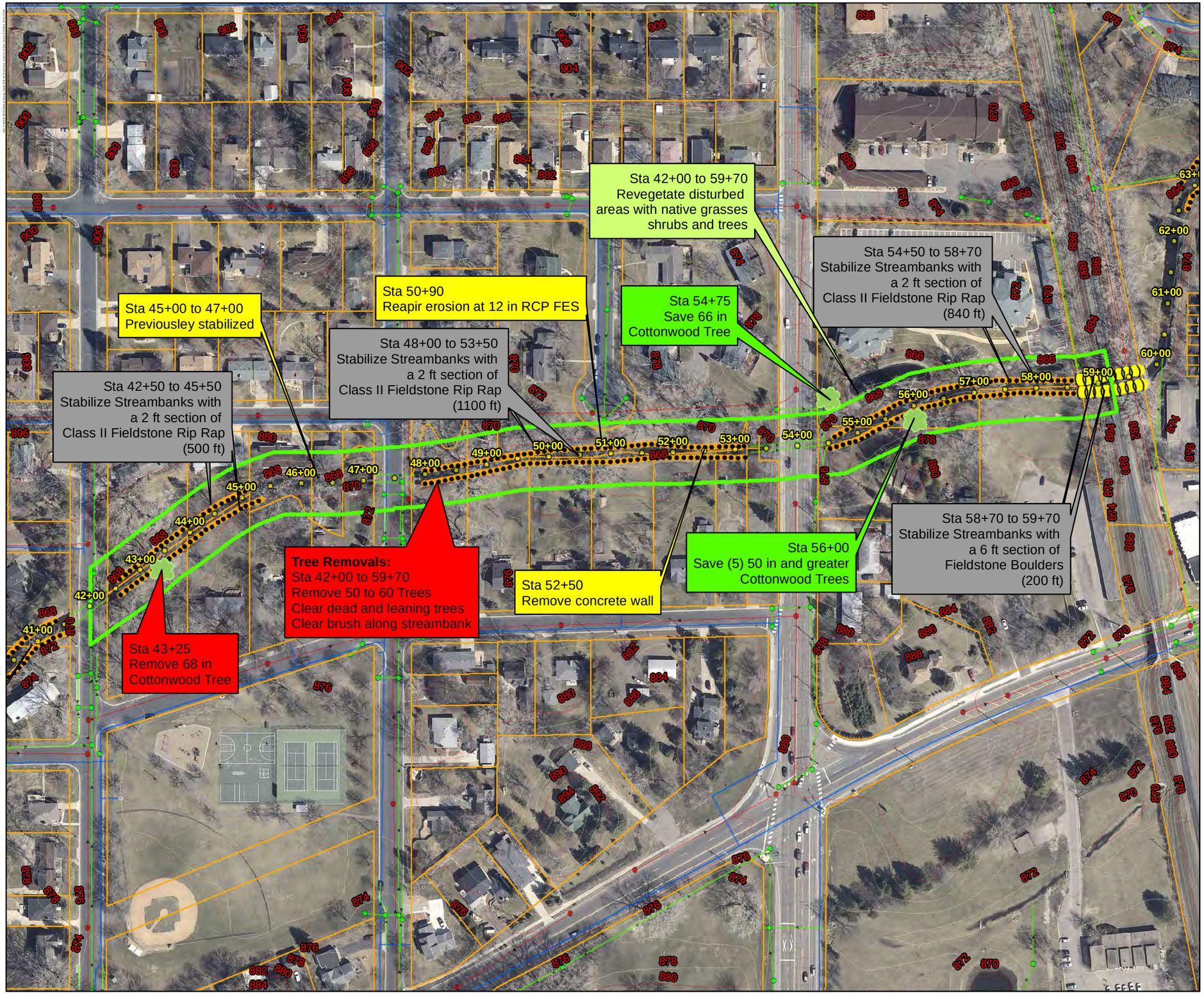
Soft Armoring Option
Area C

Legend

- Area C
- Parcel Boundaries
- Rock Vane
- Root_Wad
- Biolog Fieldstone
- Index (10-Foot)
- Intermediate (2-Foot)
- Storm Sewer
- Watermain
- Sanitary Sewer
- Fieldstone Bouler

N

0 50 100 200 Feet



city of golden valley

Bassett Creek Watershed Management Commission

Feasibility Study for the 2015 Bassett CreekMain Stem Restoration Project City of Golden Valley Minnesota

Hard Armoring Option Area C

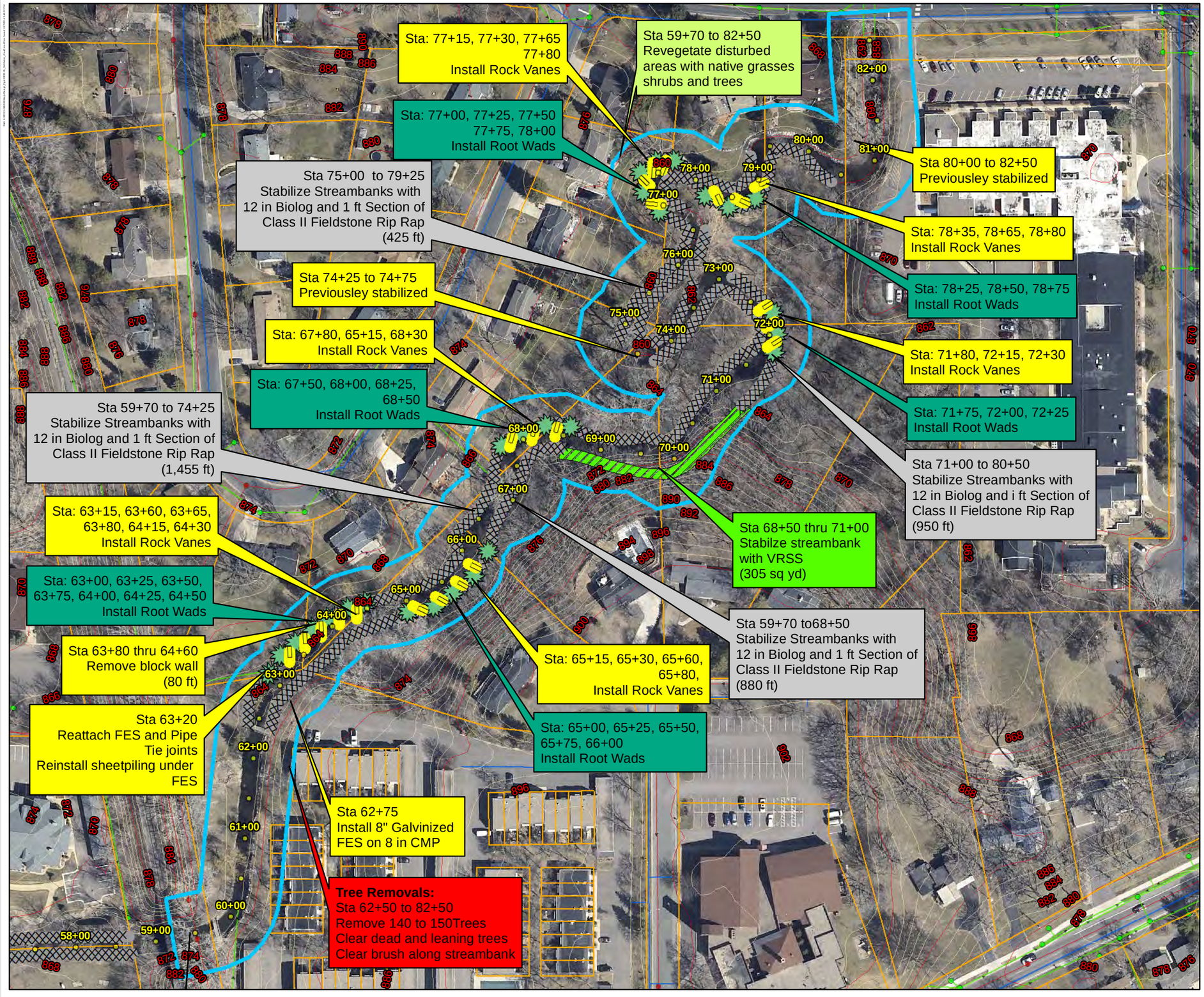
Legend

- Area C
- Parcel Boundaries
- Index (10-Foot)
- Intermediate (2-Foot)
- Storm Sewer
- Watermain
- Sanitary Sewer
- Fieldstone
- Fieldstone Bouler

N

0 50 100 200 Feet

WSB & Associates, Inc.



city of golden valley

Bassett Creek Watershed Management Commission

Feasibility Study for the 2015 Bassett CreekMain Stem Restoration Project City of Golden Valley Minnesota

Soft Armoring Option Area D

Legend

- Area D
- Rock Vane
- Root_Wad
- Biolog Fieldstone
- VRSS
- Parcel Boundaries
- Index (10-Foot)
- Intermediate (2-Foot)
- Storm Sewer
- Watermain
- Sanitary Sewer

N

0 50 100 200 Feet

WSB & Associates, Inc.

Sta 59+70 to 82+50
Revegetate disturbed
areas with native grasses
shrubs and trees

Sta 80+00 to 82+50
Previousley stabilized

Sta 75+00 to 79+25
Stabilize Streambanks with
a 2 ft section of
Class II Fieldstone Rip Rap
(425 ft)

Sta 74+25 to 74+75
Previousley stabilized

Sta 59+70 to 74+25
Stabilize Streambanks with
a 2 ft section of
Class II Fieldstone Rip Rap
(1,455 ft)

Sta 71+00 to 80+50
Stabilize Streambanks with
a 2 ft section of
Class II Fieldstone Rip Rap
(950 ft)

Sta 63+80 thru 64+60
Remove block wall
(80 ft)

Sta 63+20
Reattach FES and Pipe
Tie joints
Reinstall sheetpiling under
FES

Sta 68+50 thru 71+00
Stabilze streambank
with a 9 ft Fieldstone
Boulder section
(250 ft)

Sta 59+70 to68+50
Stabilize Streambanks with
a 2 ft section of
Class II Fieldstone Rip Rap
(880 ft)

Sta 62+75
Install 8" Galvinized
FES on 8 in CMP

Tree Removals:
Sta 62+50 to 82+50
Remove 120 to 130 Trees
Clear dead and leaning trees
Clear brush along streambank

Feasibility Study for the 2015 Bassett CreekMain Stem Restoration Project City of Golden Valley Minnesota

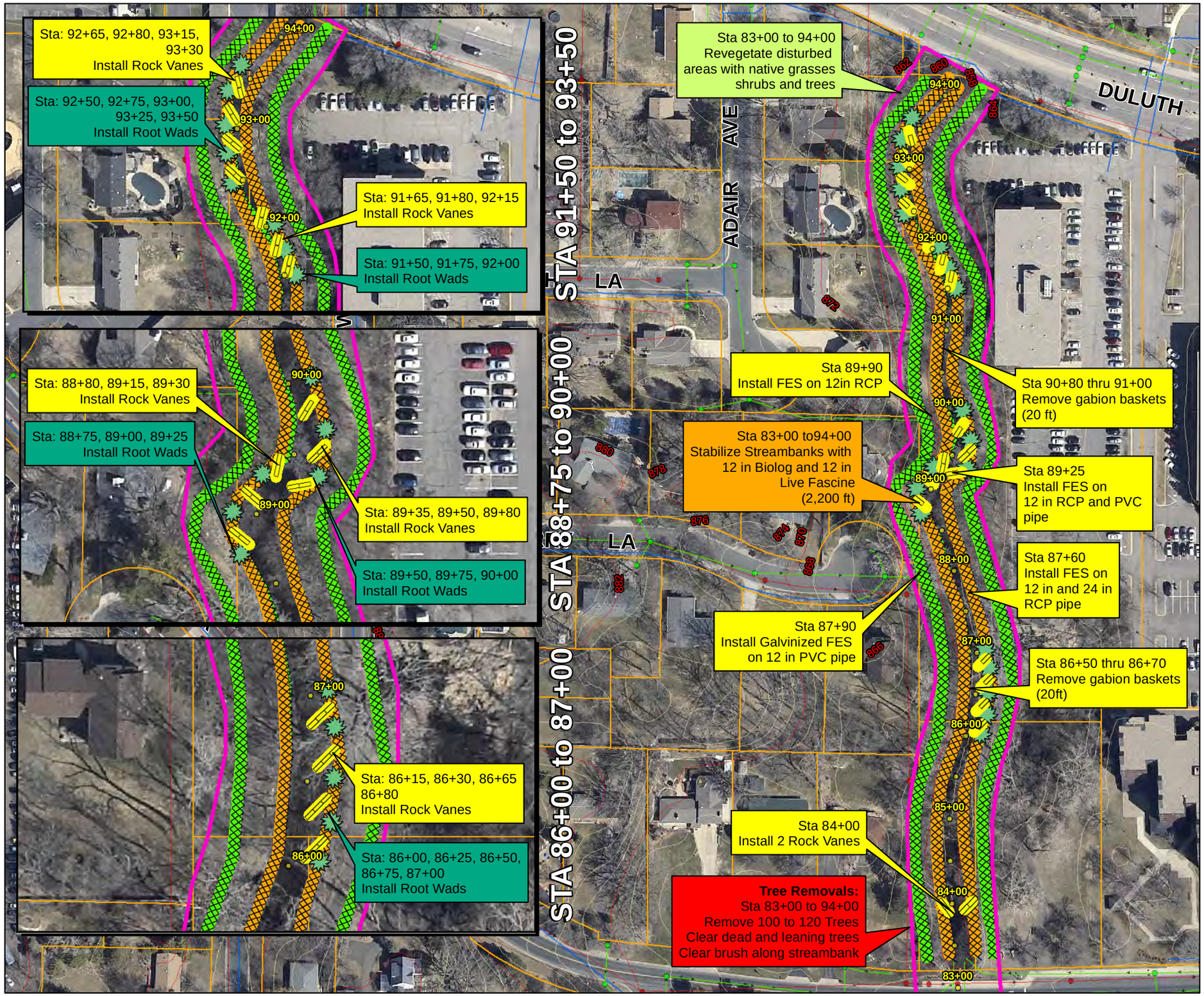
Hard Armoring Option Area D

Legend

- Area D
- Fieldstone Bouler
- Fieldstone
- Parcel Boundaries
- Index (10-Foot)
- Intermediate (2-Foot)
- Storm Sewer
- Watermain
- Sanitary Sewer

N

0 50 100 200 Feet



city of golden valley

Bassett Creek Watershed Management Commission

Feasibility Study for the 2015 Bassett CreekMain Stem Restoration Project City of Golden Valley Minnesota

Soft Armoring Option Area E

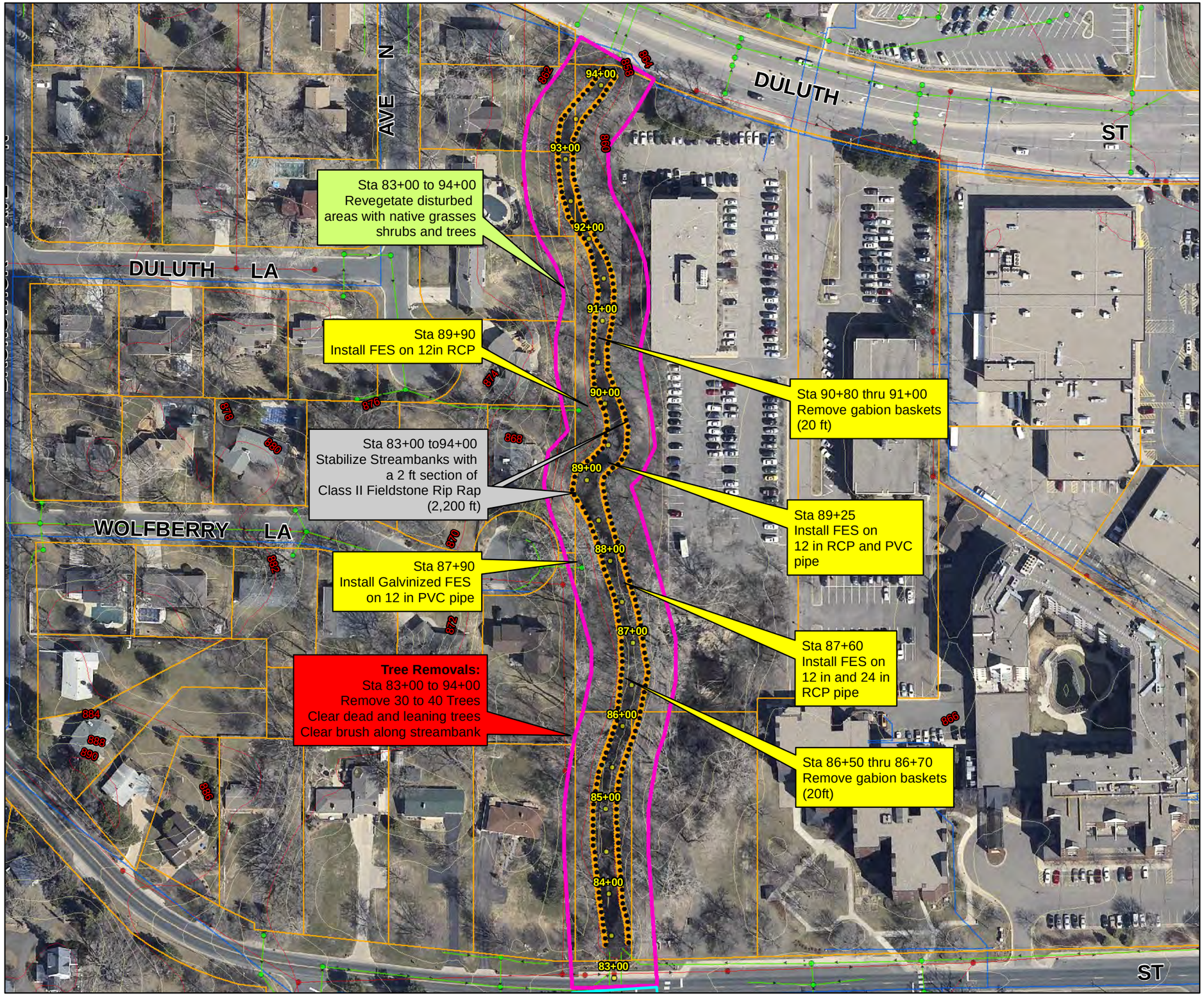
Legend

- Area E
- Rock Vane
- Root Wad
- Biolog
- Live Fascine
- Parcel Boundaries
- Index (10-Foot)
- Intermediate (2-Foot)
- Storm Sewer
- Watermain
- Sanitary Sewer

N

0 50 100 200 Feet

WSB & Associates, Inc.



city of golden valley

Bassett Creek Watershed Management Commission

Feasibility Study for the 2015 Bassett CreekMain Stem Restoration Project City of Golden Valley Minnesota

Hard Armoring Option Area E

Legend

- Area E
- Fieldstone
- Parcel Boundaries
- Index (10-Foot)
- Intermediate (2-Foot)
- Storm Sewer
- Watermain
- Sanitary Sewer

N

0 50 100 200 Feet

WSB & Associates, Inc.

2015 Bassett Creek Restoration Feasibility Study

Appendix B

2013 Site Photos

APPENDIX B

2015 Main Stem of Bassett Creek Maintenance Site Photos

Maintenance Site 1

Maintenance Site 2

2015 Main Stem of Bassett Creek Maintenance Site Photos

Maintenance Site 5 & 6

Maintenance Site 7

2015 Main Stem of Bassett Creek Maintenance Site Photos

Maintenance Site 9

Maintenance Site 10

2015 Main Stem of Bassett Creek Maintenance Site Photos

Maintenance Site 11

Maintenance Site 13

2015 Main Stem of Bassett Creek Maintenance Site Photos

Maintenance Site 14

Maintenance Site 15

2015 Main Stem of Bassett Creek Maintenance Site Photos

Maintenance Site 16

Maintenance Site 17

2015 Main Stem of Bassett Creek Maintenance Site Photos

Maintenance Site 18

Maintenance Site 19

2015 Main Stem of Bassett Creek Maintenance Site Photos

Maintenance Site 20

Maintenance Site 23

2015 Main Stem of Bassett Creek Maintenance Site Photos

Maintenance Site 24

Maintenance Site 25

2015 Main Stem of Bassett Creek Maintenance Site Photos

Maintenance Site 26

Maintenance Site 27

Maintenance Site 28

2015 Bassett Creek Restoration Feasibility Study

Appendix C

Wetland Delineation Report (Enclosed Disk)

WSB & Associates, Inc.

Infrastructure ■ Engineering ■ Planning ■ Construction

701 Xenia Avenue South
Suite 300
Minneapolis, MN 55416
Tel: 763-541-4800
Fax: 763-541-1700

Memorandum

To: ***Jeff Oliver, City of Golden Valley***
Joe Fox, City of Golden Valley

Cc: ***Erick Francis, WSB & Associates, Inc.***

From: ***Travis Fristed, PWS***
WSB & Associates, Inc.

Date: ***February 3, 2014***

Re: ***Level 1 Wetland Delineation***
2015 Bassett Creek Main Stem Restoration
City of Golden Valley, MN
City Project No. 13-25
WSB Project No. 02032-060

Enclosed please find information pertaining to the approximate boundary, type, and regulatory status of wetlands adjacent to the main stem of Bassett Creek, from Rhode Island Avenue to Duluth Street in the City of Golden Valley. This Level 1 wetland delineation memorandum is intended for the City of Golden Valley to facilitate LGU discussions with the Technical Evaluation Panel and other regulatory agencies (if needed).

Level 1 Desktop Review

WSB staff initiated a review of aerial photographs from 1991 to 2012 to determine the presence and extent of wetland signatures within the projects areas A through E. Wetland signatures included saturation or inundation and changes in plant community on the aerial imagery. In addition to historical aerial photographs, WSB completed a desktop review of available City records and GIS data, and offer the following observations:

- Mapped DNR Protected Waters and FEMA 100-Year Floodplain is located within the entire main stem of Bassett Creek.

- Mapped hydric soil signatures are partially located within and adjacent to the main stem of Bassett Creek, throughout Areas A to E.

- The entire main stem of Basset Creek is mapped as a riverine wetland type (R2UBG) on the current National Wetlands Inventory (NWI). Additional NWI signatures adjacent to the main stem are present in Area B (PUBGx excavated pond, south of Jersey/Plymouth Avenues), Area D (PFO1A), and Area E (PFO1A), as illustrated on the attached figure.

Field Review of Wetland Signatures

The 2015 proposed maintenance locations where overlaid onto the desktop review for WSB staff to field review six potential wetland signatures in Areas D and E on October 10, 2013. Visual changes in the dominance of hydrophytic vegetation, surface hydrology indicators, and landscape position were used by staff to evaluate the presence or lack of wetland within each potential wetland signature. Two foot LiDAR contour data and visual aerial changes in plant communities were also utilized after the field review to further define the approximate wetland boundaries and types. The results of this desktop and field review and field verification yielded six potential wetlands as detailed in ***Table 1***.

Table 1. Summary of Potential Wetlands, 2015 Bassett Creek Main Stem Restoration (City Project No. 13-25)

Wetland Id	Wetland Plant Community	Approximate Size (Square Feet)	Wetland Type- Circular 39 (Cowardin)	DNR Protected Waters Inventory	National Wetlands Inventory (Cowardin)	Comments
1	Seasonally Flooded	15617	Type 1L (PFO1A)	----------	PFO1A	Adjacent to Bassett Creek
2	Seasonally Flooded	25578	Type 1L (PFO1A)	----------	PFO1A	Adjacent to Bassett Creek
3	Seasonally Flooded	23039	Type 1L (PFO1A)	----------	PFO1A	Hydrologically connected via culvert(s) under trail to Bassett Creek
4	Seasonally Flooded	873	Type 1L (PFO1A)	----------	PFO1A	Adjacent to Bassett Creek
5	Seasonally Flooded	1164	Type 1L (PFO1A)	----------	PFO1A	Isolated depression, east of trail (no apparent surface outlet)
6	Seasonally Flooded	770	Type 1L (PFO1A)	----------	PFO1A	Isolated depression, east of trail (no apparent surface outlet)

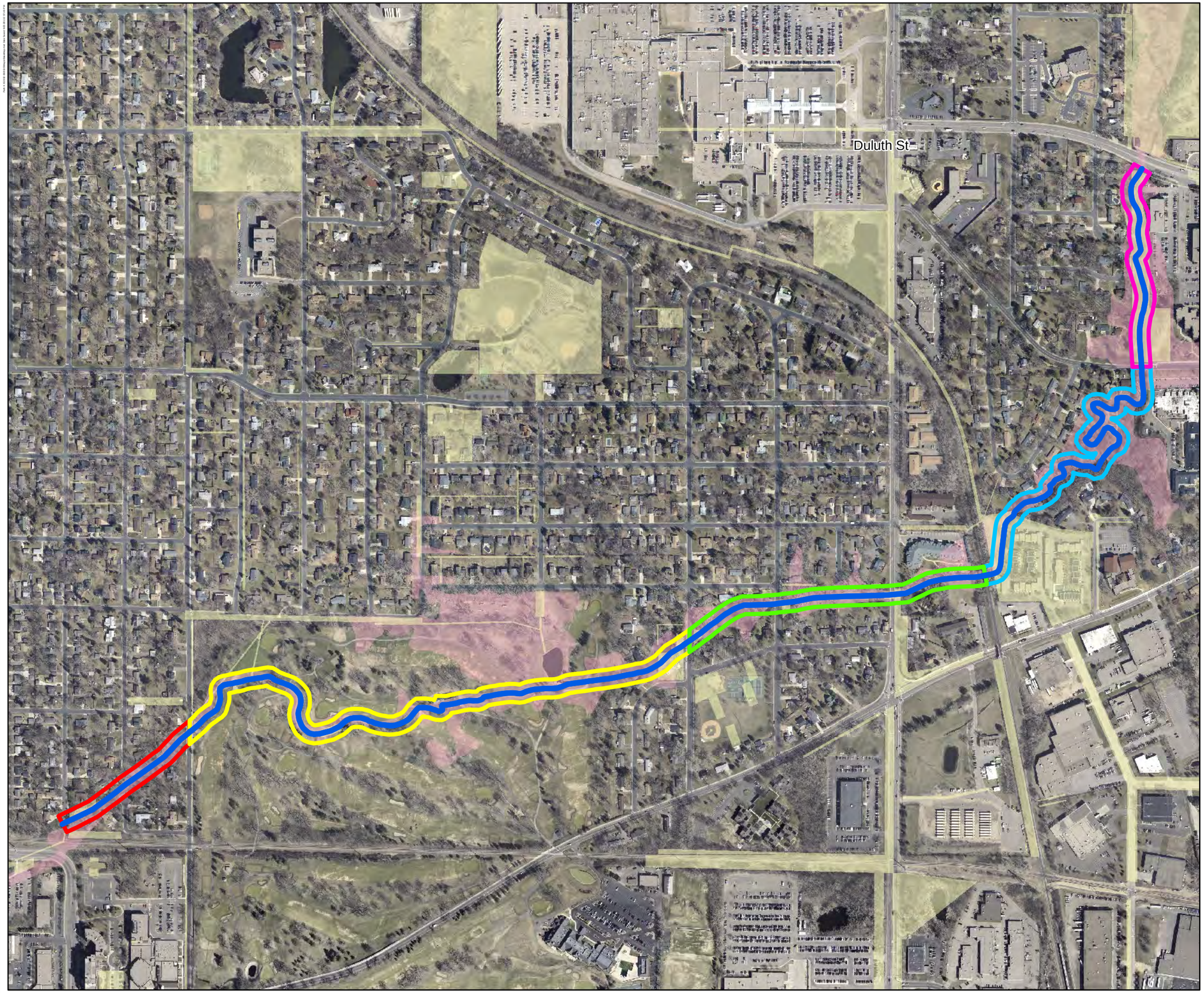
Wetland Conservation Act & Clean Water Act: Section 404 Jurisdiction

The Wetland Conservation Act (WCA- MN Rules 8420) regulates filling, draining, and excavation activities of certain wetland types in all non-DNR Protected Waters wetlands within Minnesota. Each of the wetlands listed in Table 1 are anticipated to be regulated under the WCA. Potential wetlands no. 1-6 also appear to be hydrologically connected to Bassett Creek, and therefore are assumed to be Waters of the US and regulated under Section 404 of the Clean Water Act.

Due to the nature and scope of the proposed 2015 project, it is our opinion that the proposed stream bank restoration activities will require a DNR Work within the Bed of Public Waters permit, and would qualify for a No-Loss determination (under the WCA) and Regional General Permit (Section 404). The DNR's work within the Bed of Public Waters Permit, WCA, and Section 404 regulatory approvals would likely not require a wetland replacement plan or wetland mitigation. As construction plans reach 90% finalized, we recommend the City of Golden Valley make application to the regulatory agencies to ensure approvals are issued prior to the construction letting date.

If you have any questions or concerns, please contact me at tfristed@wsbeng.com or 763-287-7169.

Attachments



city of golden valley

Bassett Creek Watershed Management Commission

Feasibility Study for the 2015 Bassett Creek Main Stem Restoration City of Golden Valley Minnesota

Legend

- 2015 Bassett Creek Restoration Project
- Area A
- Area B
- Area C
- Area D
- Area E
- Easements
- 100 Year Flood Elev

N

0 250 500 1,000 Feet

WSB & Associates, Inc.

Path: K:\02032-060\GIS\Maps\New folder\02032-06 wetlands AreaD-E.mxd Date Saved: 2/3/2014 3:14:10 PM

Legend

- Creek Stationing
- Level 1 Wetland Delineation (Type 1L, Seasonally Flooded)
- 10-Foot Contour
- 2-Foot Contour
- NWI
- Area D
- Area E

94+00
93+00
92+00
91+00
90+00
89+00
88+00
87+00
86+00
85+00
84+00
83+00
82+00
81+00
80+00
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Feasibility Study for the 2015 Bassett CreekMain Stem Restoration Project City of Golden Valley Minnesota

Level 1 Wetland Delineation Areas D & E

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WSB & Associates, Inc.

2015 Bassett Creek Restoration Feasibility Study

Appendix D

Cultural and Historical Resources Report

A Cultural Resources Assessment of the 2015 Main Stem Bassett Creek Feasibility Project, Golden Valley, Hennepin County, Minnesota

by
Steven J. Blondo, MA
Principal Investigator
Blondo Consulting, LLC

SHPO Review and Compliance Number: pending

February 5, 2014
FINAL DRAFT REPORT

BLONDO CONSULTING LLC.
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Management Summary/Abstract

Blondo Consulting, LLC was retained to complete a cultural resource assessment of the 2015 Bassett Creek Main Stem Feasibility Study Project, Hennepin County, Minnesota. The Area of Potential Effect (APE) includes the stretch between Duluth Street and east of Rhode Island Avenue and includes an area adjacent to Bassett Creek where project improvements are to occur. The purpose of the survey was to learn whether any archaeological deposits and subsurface or above ground cultural features exist within the APE prior to the stream bank stabilization. The proposed stream bank stabilization includes balancing the stream banks, and installing soft-engineered BMPs and hard armoring. The project will require permitting by the Army Corps of Engineers and therefore will be subject to review under Section 106 of the National Historic Policy Act (NHPA).

A field visit took place on September 13, 2013. At that time, the APE was walked with Project Manager Erick Francis of WSB & Associates. Discussions of project plans and stabilization locations took place. Stream bank restoration and stabilization locations were identified adjacent to the current stream and within the 100-year flood plain. These areas were compared to areas identified by Christina Harrison of Archaeological Research Services as having potential for intact subsurface deposits. Blondo Consulting recommends no further work for the proposed project site locations.

TABLE OF CONTENTS

1.0 INTRODUCTION 1
2.0 PROJECT AND SITE DESCRIPTION 1
3.0 METHODOLOGY 1
4.0 ENVIRONMENT 2
4.1 Soils 2
4.2 Geological Background 2
4.3 Flora and Fauna 2
5.0 CULTURAL HISTORY 3
5.1 Pre-Contact Period 3
5.1.1 Paleoindian Tradition 3
5.1.2 Archaic Tradition 3
5.1.3 Woodland Tradition 4
5.1.4 Plains Village and Mississippian/Oneota Tradition 4
5.2 Contact/Post Contact Period 5
6.0 RESULTS OF BACKGROUND AND ARCHIVAL RESEARCH 6
6.1 Previously Identified Cultural Resources 6
6.2 Previous Surveys 6
7.0 FIELD RESULTS 6
7.1 Project Site Area A 6
7.2 Project Site Area B 7
7.3 Project Site Area C 7
7.4 Project Site Area D 7
7.5 Project Site Area E 7
8.0 CONCLUSION 8

References Cited/Bibliography
Maps
Photographs

1.0 INTRODUCTION

In September 2013, WSB and Associates (WSB), consultant to the City of Golden Valley, retained Blondo Consulting, LLC (Blondo Consulting) to complete an archaeological reconnaissance investigation for the proposed stream bank stabilization project located along Bassett Creek, Golden Valley, Hennepin County, Minnesota. The purpose of the investigation is to identify if previously unrecorded archaeological sites exist within the project area. The archaeological investigation involved a field visit on September 13, 2013. During this visit, all five reaches of Bassett Creek were walked. Mr. Erick Francis of WSB & Associates explained project locations and proposed stabilization methods. Comparisons to areas identified by Archaeological Research Services as having potential for subsurface deposits were made. The results of the investigation and recommendations are also included in this report.

2.0 PROJECT AND SITE DESCRIPTION

The City of Golden Valley is proposing improvements and stabilization of the existing stream bank located within Bassett Creek Watershed east of Adair Avenue and North of 10th Street. The project related portions of Bassett Creek are located within T118N, R21W, Sections 28, 29, and 32. The Area of Potential Effect (APE) contains the stream bank and area area adjacent to Bassett Creek where project improvements are to occur, immediately adjacent to the stream bank in five proposed improvement areas. The APE has been defined as the area where ground disturbance is likely to occur.

3.0 METHODOLOGY

The proposed project is located in a region where recorded archaeological properties are not numerous, though this may be because of a lack of formal survey. Archaeological properties related to American Indian occupation and activities are usually found along lakes and streams, or former large permanent bodies of water on prominent topographic features (i.e. uplands or terraces).

Background research was completed by Ms. Christina Harrison of Archaeological Research Services in 2009. The literature review was completed at the State Historical Preservation Office (SHPO), and Office of the State Archaeologist (OSA). State archaeological site files, *National Register of Historic Places* (NRHP), historic maps (including Trygg maps and the Andreas Atlas), and current and historic aerial photographs. Winchell's Aborigines of Minnesota (1911) were reviewed to further identify reported archaeological sites and potential for burial mounds and unplatted cemeteries. "Cultural Resource Phase IA Review Conducted for the Bassett Creek Watershed Management Commission Resource Management Plan, Hennepin County, Minnesota" documented Ms. Harrison's findings.

The archaeological investigation involved a field visit on September 13, 2013. During this visit, all five stretches of Bassett Creek were walked. Mr. Erick Francis of WSB & Associates explained project locations and proposed stabilization methods. Comparisons to areas identified by Archaeological Research Services as having potential for subsurface deposits were made.

4.0 ENVIRONMENT

The project area falls in Anfinson's Archaeological Region 4: Central Deciduous Lakes. Anfinson's archaeological regions allow us understand the prehistoric environment and better predict where archaeological sites may be located.

Region 4: Central Deciduous Lakes topography consists of "a patchwork of moraines, till plains, and outwash plains" (Anfinson 1988:295). The region is defined by the rivers that flow through and border it. The Mississippi flowing through the region, the St. Croix forming the eastern and rivers draining into the Red River forming the western boundaries. Anfinson tells us that the area has a complex glacial history, "at different times covered by ice lobes from the north, northeast, northwest, and even southwest" (Anfinson 1988:295). The eastern half of the region was free of ice by 13,500 years ago but the Des Moines Lobe covered the western half of the region until about 12,000 years ago.

In pre-settlement times, most of the region's vegetation consisted of "Big Woods bordered with oak in the west, oak woods in the southeast, and mixed coniferous-deciduous forest in [the] north" (Anfinson 1988:296). Marschner describes the natural vegetation as wet prairie or marsh, oak openings and barrens, and big woods (hardwoods – oak, maple, basswood, hickory). Today the area is located in the Eastern Broadleaf Forest Province, Minnesota and NE Iowa Morainal Section, and Big Woods Subsection of the Department of Natural Resources Ecological Classification System (DNR ECS).

4.1 Soils

Anfinson gives a general description of the soils in the area as "medium to coarse textures with prairie soils in the south and west and forest soils in the north and east" (1990:148). County soil data shows a variety of soils within the project area. These soils can be divided into hydric "soils that are water-saturated for long enough periods to produce reduced conditions and affect the growth of plants" (Brady 1999:533) and non-hydric. Hydric soils have less potential to produce archaeological sites than non-hydric soils.

4.2 Geological Background

Wright identifies the physiographic regions overlaying the state. Overlaying the project area is the Eastern St. Croix Moraine (#13) (Wright 1972:570). Wright goes on to describe the area as being "composed of stony, reddish-brown glacial drift" and "less suitable for intensive agriculture than for scenic sighting of country houses" (1972:570).

4.3 Flora and Fauna

Early prehistoric subsistence resources of the area would have included "extinct woodland dwellers such as the giant beaver and mastodants[sic] and smaller animals known in the northern forests of today" (Anfinson 1988:296). Early Middle Prehistoric faunal would have been similar to Late Prehistoric fauna and would have included: white tailed deer, beaver, bear, moose (in the north and east), bison and elk (in the south and

west). Fish and waterfowl as well as wild rice would have been plentiful in wetlands and lakes. Acorns and other nuts, berries and plants would have been available for gathering.

5.0 CULTURAL HISTORY

Statewide contexts have been developed by the Minnesota State Historic Preservation Office (SHPO), which examines Minnesota's recent Prehistoric through Historic past. These contexts are based on archaeological and historic research. They describe the history of the state, and assist in predicting where specific types of sites may occur both geographically and temporally.

American Indian contexts area commonly divided into three major traditions: Paleoindian, Archaic, and Woodland based on significant changes these communities lived and what they ate. Historic contexts are generally divided into Contact and Post-Contact periods. The Contact period begins with early European exploration of the state and continues through the Post-Contact period including settlement and statehood.

Most archaeological sites found within Hennepin County have only been dated to the Pre-Contact period. Exact dating is difficult based on limited testing, analysis, and quantity of artifacts. However, based on the types of artifacts found within the county, it can be assumed that almost all periods of prehistory have the potential to be represented within the project boundaries.

5.1 Pre-Contact Period

5.1.1 Paleoindian Tradition (12,000 to 8,000 Before Present [B.P.])

The Paleoindian Tradition begins at the close of the Pleistocene era and beginning of the Holocene era. Native Communities are small, mobile, and focused on hunting. The glacial ice retreats and Lake Agassiz (located on the edge of Traverse County) drains and prairie vegetation advances into western Minnesota. Archaeological evidence from Paleoindian sites in Minnesota include the Browns Valley Site, 21TR0005, located near the project area reflect the same general characteristics and patterns noted for Paleoindian sites throughout the central United States and Canada. Based on the small number of artifacts recovered from these sites, it can be assumed that these communities hunted a limited number of large animals, mainly mammoth and mastadons. As the Pleistocene era ended and the Holocene era began, these mega fauna gradually died out. Ancient species of bison followed the advance of prairie vegetation, giving Paleoindian people a species to shift their hunting focus to. In addition to hunting large and smaller game, it is likely that gathering wild plant foods supplemented the diet of the Paleoindian people.

Paleoindian people are known for their distinctive stone tools. Projectile points of this period show advanced craftsmanship and include large lanceolate projectile points. Because Paleoindian communities were very small and nomadic, archaeologists have found only sparse, scattered evidence of the Paleoindian people throughout the region.

5.1.2 Archaic Tradition (8,000 to 2,800 B.P.)

The beginning of the Archaic period is marked by adaptation to environmental changes in the form of diet and settlement patterns. Archaic People begin to use more diverse

plant and animal resources. A broader range of tools including new projectile point forms, copper tools, and ground and pecked stone tools appear. Although some research suggests that community size increased during the Archaic period, some archaeological evidence counters that assumption, suggesting that community sizes remained small, and that day-to-day activities took place at a series of seasonal camps (Anfinson 1987:1997). The hunting of bison remained an integral part of life for Archaic people. As with Paleoindian sites, Archaic sites are relatively small and ephemeral.

5.1.3 Woodland Tradition (2,800 B.P. to European Contact)

In the Midwest region, archaeologists tend to divide the Woodland Tradition into three periods: Early, Middle, and Late, however Anfinson (1987a) has suggested that in Minnesota it may be more appropriate to make a single division into Initial and Terminal periods. The manufacture of ceramic vessels, use of bows and arrows, construction of burial mounds, and cultivation of specific plant species, mark the transition into the Woodland Tradition. Archaeologists believe that the Woodland Tradition remained similar to that of the Archaic period, with a dependence upon a diverse, seasonal resource base of plants and animals (Johnson 1988; Anfinson 1987a:222).

Although community sizes have many similarities between the Early Woodland and Late Archaic period, by the Late Woodland period populations are on the rise. This may be due to increased efficiency in regards to how food was acquired. Woodland period sites range from burial mounds to small limited use sites to large village and habitation sites. Sites are located in areas where the community could focus on specific resources to environments capable of sustaining larger communities over longer periods of time.

5.1.4 Plains Village & Mississippian/Oneota Traditions (1,100 B.P. to European Contact)

Terminal Woodland period sites in Minnesota exhibit significant changes in subsistence and settlement patterns. Ceramic vessels with different form and decoration, settlement patterns shifting to larger and more permanent villages (usually near river settings) all mark a change archaeologists refer to as the Plains Village and Mississippian/Oneota Traditions. Archaeological evidence indicates that both the Plains Village and Mississippian complexes relied heavily on bison hunting and intensive corn horticulture.

Archaeologists are unsure how the Oneota complexes developed. Two common theories are prevalent. The first indicates that groups migrating into the Upper Midwest brought with them new cultural traditions. A second theory is that people already living in the area began to adopt cultural changes different from groups around them.

Plains Village and Oneota site types are similar to those associated with the Woodland Tradition. The archaeological remains of these complexes range from burial mounds to small, limited use sites and extensive habitation sites. Site location remains consistent with the Woodland Period.

5.2 Contact/Post-Contact Period (1630 to Present)

This period generally refers to the span of time extending from the first European explorations until intensive Euro-American settlement of the region. Minnesota's historical period began in 1673 when French explorers Marquette and Joliet discovered the upper portion of the Mississippi River. Ten years later, Catholic Missionary Father Louis Hennepin returned to France to write the first book about Minnesota, *Description de la Louisiane*, telling his story of exploring Minnesota and being held captive by the Dakota Indians.

The territory containing modern-day Minnesota was claimed by Spain, France, Great Britain, and eventually the United States. Lieutenant Zebulon Montgomery Pike lead the first United States expedition through Minnesota in 1805. Fort St. Anthony (later Ft. Snelling) was completed between 1819 and 1824, and in 1836 the Wisconsin Territory including a portion of Minnesota, was formed. Minnesota became a territory in 1849 and achieved statehood on May 11, 1858.

The fur trade drove much of the European exploration and settlement in Minnesota through the mid-1800s. While the fur trade impacted the American Indian communities throughout all of Minnesota, European settlement in the area exploded after the 1860s. At that time, intensive settlement and agriculture dramatically transformed the landscape, displacing a large number of American Indians. In 1862 tensions between white settlers and American Indians exploded resulting in the Dakota Conflict. Ultimately, this war left 462 whites and "an unknown but substantial number" of American Indians dead (Anderson and Woolworth 1988). This conflict concluded with the hanging of 38 Dakota Indians in Mankato and the deportation of many others to Santee, Nebraska.

As white settlers made Minnesota their home, farming became the predominant industry. Wheat was the cash crop, and mills sprang up along major waterways across the state, notably in Minneapolis. Minnesota dominated the world in wheat processing until the 1930s. In addition to milling, Minnesota was also a leader in lumbering and iron mining.

Possible archaeological site types associated with this period are generally consistent with those of earlier periods, but the influence of European and Euro-American traders, missionaries, settlers, and industries affected the locations of these sites. This period also includes the settlement patterns, subsistence activities, and economic strategies employed by Euro-American immigrants beginning in the mid-nineteenth century. Associated archaeological and historic site types categorized in the Contact/Post-Contact period include standing structures as well as archaeological sites.

6.0 RESULTS OF BACKGROUND AND ARCHIVAL RESEARCH

6.1 Previously Identified Cultural Resources

Records searches were conducted at both the State Historic Preservation Office (SHPO) and Office of the State Archaeologist (OSA). The Area of Potential Effect (APE) contains the stream bank and area immediately adjacent to the stream bank in five proposed improvement areas. The APE has been defined as the area where direct adverse effect is likely to occur. No previously identified cultural resources (archaeological or historical sites) have been recorded within the APE. As pointed out by Christina Harrison in her 2009 report "only a few systematic efforts have been made to survey this general area for archaeological evidence" (2009:[7]).

6.2 Previous Surveys

The region around the project area has been the subject of several important surveys. The earliest recorded survey was that of T.H. Lewis, who surveyed large areas of the state for earthworks during the latter part of the nineteenth-century (Winchell 1911). Lewis recorded a number of mounds and earthworks in Hennepin County (Winchell 1911). More recently, compliance surveys have played an important role in understanding the distribution of cultural resources. Although a number of Cultural Resource Surveys have been completed within the Watershed, most of the area adjacent to the current project has not been previously surveyed. Christina Harrison and Archaeological Research Services (ARS) completed a preliminary reconnaissance survey along the main stem in 2009. Other Cultural Resources Surveys conducted near the project area are listed in Harrison's 2009 report.

7.0 FIELD RESULTS

Steven Blondo conducted a field visit on September 13, 2013. The project area was walked with WSB Project Manager Erick Francis. He explained proposed project improvements. Notes and photographs were taken. Comparisons to Harrison's results were made along the way. Improvements consist of a series of stabilization and restoration locations. Improvement efforts include removal of fallen and dead trees, shaping of the eroded stream banks in selected areas, and installation of stream bank stabilization methods such as cross vanes, rock vanes, bio-log, and stone toe protection. Removal and salvage of rip-rap will take place in selected areas and placement of new rip rap where needed. The restoration of disturbed areas will be completed by reseeding with native vegetation and installation of erosion blanket on disturbed areas. The following describes each of the five areas in detail.

7.1 Project Site Area A

Project Site Area A is located between Rhode Island Avenue and Pennsylvania Avenue. It consists of an approximately 900 foot section of Bassett Creek within a residential setting. Houses in the area appear to date to the 1950s and 1960s, which is confirmed by aerial photographs showing construction between 1957 and 1960. A series of large 30 to 40 inch diameter cottonwoods are located in Area A. Recommended improvements for this reach include: clearing of trees, reshaping of eroding slopes, stabilization, and revegetation of upper slopes. The area was not part of Harrison's previous survey. A field

visit by Blondo Consulting revealed low potential for intact cultural materials. Blondo Consulting recommends no further cultural work for Area A.

7.2 Project Site Area B

Project Site Area B is located between Pennsylvania Avenue and Hampshire Avenue. Project Site Area B overlaps with Harrison's Main Stem Figure CO1. Through this area, Bassett Creek bisects the Golden Valley Country Club. According to Harrison, the club was formed as the "Golden Valley Golf Club in 1916 and first developed as a 9-hole course on 133 acres of pasture land, corn fields, and swamp land north of the railroad tracks" (Harrison 2010:C-2). She explains that the course was expanded to 18 holes when it was renovated in the late 1920s by A.W. Tillinghast "whose design, following some course modifications made in the 1940s and 1960s, since has been restored". Proposed improvements are planned for an area approximately 50 to 75 feet east of the edge of the golf course. Depending on the scale of the work proposed in this area, evaluation of the 1916 Golf Course may be required. Provided proposed improvements in this area do not affect the golf course, Blondo Consulting recommends no further cultural work for Area B.

7.3 Project Site Area C

Project Site Area C is located between Hampshire Avenue and the current Canadian Pacific (CP) Railway. Harrison investigated the area as CO2. She stated that the creek appeared to have been straightened. She states "due to these modifications of the original terrain, the segment seems to lack archaeological potential" (2010:C-4). Recommended improvements for this reach include: reshaping of eroding slopes, stabilization, and revegetation of upper slopes. A field visit by Blondo Consulting confirmed Harrison's finding of low potential for intact cultural materials. Blondo Consulting recommends no further cultural work for Area C.

7.4 Project Site Area D

Project Site Area D is located between the current Canadian Pacific (CP) Railway and St. Croix Avenue. Harrison investigated the area as CO3. She noted that most of the area is low and of low archaeological potential. Some higher ground areas were identified and warranted further Phase I testing. Recommended improvements for this reach include: reshaping of eroding slopes, stabilization, and revegetation of upper slopes. A field visit by Blondo Consulting found that areas where proposed improvements are planned do not correlate to the higher probability areas identified by Harrison. Improvements are planned for creek banks. The higher elevation and probability areas are located above the creek bank areas, outside planned project improvements. Blondo Consulting recommends no further cultural work for Area D.

7.5 Project Site Area E

Project Site Area E is located between St. Croix Avenue and Duluth Street. Harrison investigated the area as CO4. She noted that most of the area is low and of low archaeological potential. Three higher terraces were identified which Harrison said may warrant further Phase I testing. Recommended improvements for this reach include: reshaping of eroding slopes, stabilization, and revegetation of upper slopes. A field visit by

Blondo Consulting found that areas where proposed improvements are planned do not correlate to the higher probability areas identified by Harrison. Again, improvements are planned for creek banks. The higher elevation and probability areas are located above the creek bank areas, outside planned project improvements. Blondo Consulting recommends no further cultural work for Area E.

8.0 CONCLUSION

Blondo Consulting, LLC was retained to complete a cultural resources reconnaissance investigation for the 2015 Bassett Creek Main Stem Restoration Project, Golden Valley, Hennepin County, Minnesota. The Area of Potential Effect (APE) includes five (5) maintenance areas along the creek. The purpose of the survey was to learn whether any archaeological deposits or subsurface features exist within the APE prior to the stream bank stabilization. The proposed stream bank stabilization includes sloping of eroded stream banks, and installing soft-engineered BMPs and hard armoring. The project will require permitting by the Army Corps of Engineers and therefore will be subject to review under Section 106 of the National Historic Policy Act (NHPA).

A field visit was completed on September 13, 2013. During this visit, all nine reaches of Bassett Creek were walked. Mr. Erick Francis of WSB & Associates explained project locations and proposed stabilization methods. Comparisons to areas identified by Archaeological Research Services as having potential for subsurface deposits were made. No archaeological materials were encountered. Blondo Consulting, LLC recommends no further archaeological work for the proposed project site locations.

With any project there is the chance of unanticipated discovery. Should archaeological materials surface during construction, it is advised that a professional archaeologist be consulted. Minnesota Statute 307.08 protects unplatted cemeteries (including burial mounds) and issues guidelines for dealing with unexpected finds. Should human remains be encountered during stream bank stabilization, all work must stop and local law enforcement must be called.

References Cited/Bibliography

Anderson, Gary Clayton, Alan R. Woolworth

1988 *Through Dakota Eyes: Narrative Accounts of the Minnesota Indian Wars of 1862*. Minnesota Historical Society Press, St. Paul.

Andreas, A.T.

1874 *An illustrated historical atlas of the state of Minnesota.* Chicago: A.T. Andreas

Anfinson, Scott

1987 The Prehistory of the Prairie Lake Region in the Northeastern Plains. Thesis for the University of Minnesota.

1990 Archaeological Regions in Minnesota and the Woodland Period. In The Woodland Tradition in the Western Great Lakes: Papers Presented to Elden Johnson, edited by Guy Gibbon, pp. 135-166. University of Minnesota Publications in Anthropology No. 4, Minneapolis.

1997 Southwestern Minnesota Archaeology: 12,000 years in the Prairie Lake Region. St Paul: Minnesota Historical Society.

Bozhardt, Robert F., James L. Theler, and Thomas F. Kehoe

1986 The Early Woodland Stage. In "Introduction to Wisconsin Archaeology: Background for Cultural Resource Planning." The *Wisconsin Archaeologist* 67(3-4):243-262.

Brady, Nyle C. and Ray R. Weil

1998 Elements of the Nature and Properties of Soils. Prentice Hill, Upper Saddle River.

Harrison, Christina

2009 *Cultural Resource Phase IA Conducted for the Bassett Creek Watershed Management Commission Resource Management Plan, Hennepin County, Minnesota.*

2010 *Report on Preliminary Reconnaissance Survey Conducted by Archaeological Research Services (ARS) Along the Main Stem of Bassett Creek Cities of Crystal and Golden Valley, Hennepin County, Minnesota.*

Johnson, Elden

1988 *Prehistoric Peoples of Minnesota*, third edition. Minnesota Historical Society, St. Paul.

Marschner, F.J.

1930 *Map of the Original Vegetation of Minnesota.* Reprinted in 1978 by the Minnesota Department of Natural Resources, St. Paul, Minnesota.

Minnesota DNR
Minnesota DNR website found at http://www.dnr.state.mn.us/ecs/index.html, accessed 20 July 2009.

Minnesota State Historical Preservation Office Files
n.d. Various Files for recorded sites, archaeological as well as surveys conducted within the state.

Minnesota State University Mankato
Minnesota History, A Timeline Website found at http://www.mnsu.edu/emuseum/history/mnstatehistory/timeline.html#1659. accessed 28 February 2007.

Office of the State Archaeologist Files
n.d. Various Files for recorded sites.

United States Census Website
Found at: http://census.gov, accessed 20 July 2009.

Winchell, N. H.
1888 *The Geology of Minnesota. Vol II of the Final Report.* Pioneer Press Company, State Printers, St. Paul.

Winchell, N.H.
1911 *The Aborigines of Minnesota.* The Pioneer Company, St. Paul, Minnesota.

Wright, H. E.
1972 Quaternary History of Minnesota. In *Geology of Minnesota: A Centennial Volume*, edited by P.K. Sims and G. B. Morey. Minnesota Geological Survey, University of Minnesota, St. Paul.

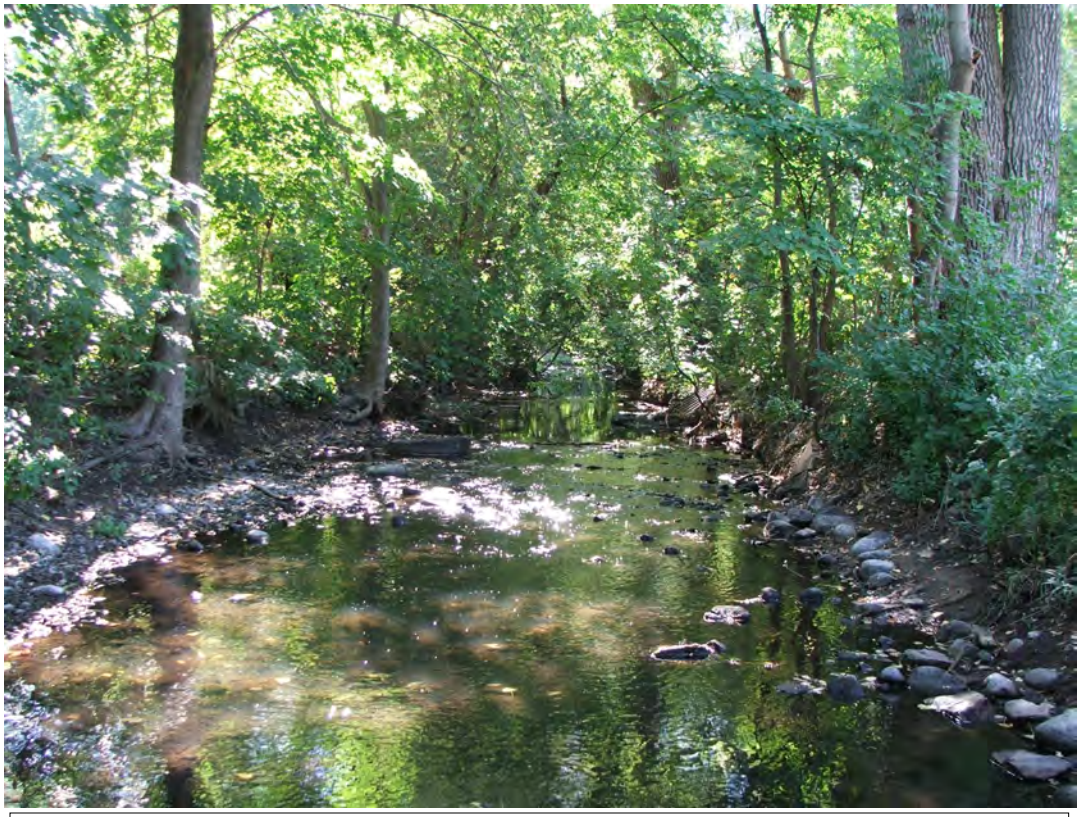


Photo 1: Area A along Bassett Creek, facing west.

Photo 2: Area C along Bassett Creek, facing east.

Photo 3: Area C along Bassett Creek, facing west.

Photo 4: Area D along Bassett Creek, facing northwest.

Photo 5: Area D along Bassett Creek, facing south.

2015 Bassett Creek Restoration Feasibility Study

Appendix E

Phase 1 Environmental Assessment Study

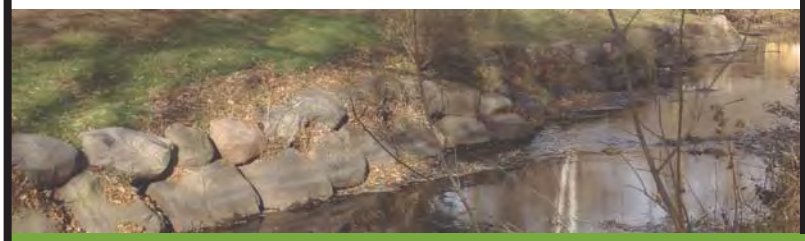
DECEMBER 4, 2013

PHASE I
Environmental Site Assessment

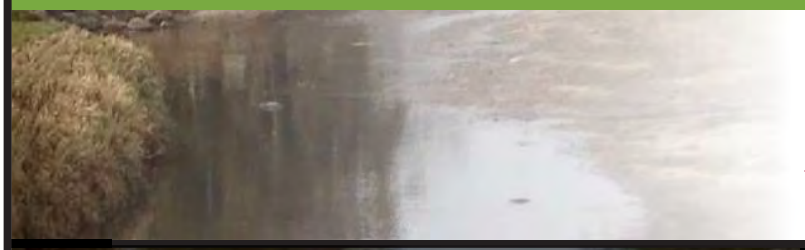
2015 Bassett Creek Main Stem Restoration Project

Rhode Island Avenue North
to Duluth Street
Golden Valley, MN

City of Golden Valley
7800 Golden Valley Road • Golden Valley, MN 55427



WSB Project No. 2032-060



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Phase I Environmental Site Assessment

2015 Bassett Creek Main Stem Restoration Project
Rhode Island Avenue North to Duluth Street
Golden Valley, MN

Prepared for:

City of Golden Valley
7800 Golden Valley Road
Golden Valley, MN 55427

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December 4, 2013

Ryan G. Spencer
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Table of Contents

TITLE SHEET

TABLE OF CONTENTS

1. Summary **1**

2. Introduction **2**

2.1 Purpose 2
2.2 Scope of Services 3
2.3 Assessment Limitations and Assumptions 3
2.4 Special Terms and Conditions 4
2.5 Previous Environmental Documents 4

3. Site Description **4**

3.1 Subject Property Location 4
3.2 Property Setting 5
3.3 Current and Historic Property Use 5
3.4 Description of Structures, Roads, and Improvements 5
3.5 Adjoining Properties 6

4. User Provided Information **6**

5. Records Review **6**

5.1 Regulatory Records Review 6
5.2 Physical Setting Information 11
5.3 Historical Use Information 12

6. Site Reconnaissance **15**

6.1 Methodology 15
6.2 General Site Setting 15
6.3 Exterior and Interior Observations 15

7. Interviews **17**

8. Findings, Conclusions, and Opinions **17**

8.1 Recognized Environmental Conditions 17
8.2 Historical Recognized Environmental Conditions 17
8.3 Controlled Recognized Environmental Conditions 18
8.4 De Minimis Conditions 18
8.5 Items of Environmental Note 18

9. Recommendations **19**

10. Data Gaps **19**

11. Qualifications of Environmental Professionals **20**

Table of Contents

LIST OF TABLES

Table 1 – Summary of Potential Environmental Sites

LIST OF FIGURES

Figure 1 – Project Location
Figure 2 – USGS Topographical Map
Figure 3A – Hennepin County Soils Survey
Figure 3B – Hennepin County Soils Survey
Figure 4 – Surface Geology
Figure 5 – Bedrock Geology
Figure 6 – County Well Index
Figure 7 – Photograph Location Map
Figure 8A – Potential Environmental Sites
Figure 8B – Potential Environmental Sites
Figure 8C – Potential Environmental Sites
Figure 8D – Potential Environmental Sites
Figure 8E – Potential Environmental Sites

LIST OF APPENDICES

Appendix A – User Questionnaire
Appendix B – Regulatory Records Documentation (EDR Report)
Appendix C – Fire Insurance Maps (No Coverage)
Appendix D – Aerial Photographs
Appendix E – Topographic Maps
Appendix F – Photographic Documentation

1. Summary

WSB & Associates, Inc. (WSB) was retained by the City of Golden Valley (the City) to conduct a Phase I Environmental Site Assessment (ESA) of the 2015 Bassett Creek Main Stem Restoration Project which consists of a 1.7 mile reach of Bassett Creek from Rhode Island Ave North to Duluth Street in Golden Valley, Hennepin County, Minnesota (the subject property). The objective of the assessment was to identify Recognized Environmental Conditions (RECs) associated with the property according to ASTM E1527-13 "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessments".

The subject property is located within residential, recreational, and commercial parcels within Sections 28, 29, and 32, Township 118 North, and Range 21 West, in Hennepin County, Minnesota. For the purposes of this assessment, the subject property consisted of a 200 foot radius from the Bassett Creek Main Stem along the 1.7 mile creek reach. A subject property location map is included as **Figure 1**.

The Phase I ESA is being conducted in support of a proposed creek restoration project that will involve excavation, grading, bank stabilization, and tree removal within the subject property boundary. For ease of discussion, the subject property is divided into five different areas (Areas A-E) as illustrated on **Figure 1**.

WSB has performed this Phase I ESA in conformance with the scope and limitations of ASTM Practice E1527-13. Exceptions to and deletions from this practice are described in **Section 2.3** of this Phase I ESA. This Phase I ESA has been prepared exclusively for the City of Golden Valley. No additional parties may rely on the contents of this report unless written authorization is obtained from WSB.

This Phase I ESA has revealed no recognized environmental conditions (RECs) associated with the subject property.

Additionally, 15 potential environmental sites were identified during this Phase I ESA (see **Table 1**) and the following environmental items should be noted:

Adjoining and Surrounding Releases

The regulatory database search identified two adjoining properties and five surrounding area properties (located within 500 feet of the subject property) that have documented releases. There is a potential that these releases have impacted the property soil and/or sediment. The majority of these releases have been issued "site closure" by the MPCA indicating the identified contamination, if present, does not appear to pose a threat to public health or the environment under current conditions (note: site closure does not indicate the site is free of contamination) or have been determined to be small in scale and not require additional investigation

and/or cleanup. The adjoining property releases are highlighted on the potential environmental sites map included as **Figure 8**.

Historic Railroad Lines

The property is transected by the Minneapolis Northfield and Southern railroad line on the eastern portion and also adjoined by the Chicago and Northwestern railroad line to the south. There is the potential that historic railroad operations (i.e. derailments, creosote treated railroad ties, routine maintenance, etc.) have resulted in environmental impacts to the property. No obvious sign of contamination or environmental impacts were observed near the railroad lines during the site reconnaissance. The railroad lines are highlighted on the potential environmental sites map included as **Figure 8**.

Undocumented Fill Materials

Historical aerial photographs and topographic maps indicate the presence of land disturbances (undocumented filling and grading) adjoining many subject property areas. The majority of the land disturbances are for residential purposes and the construction of roads. Two significant land disturbances, one located north of the property (a former gravel pit) and one located south of the property (a commercial development) were identified in the historic review. There is the potential that historic filling and grading has caused environmental impacts to the property. The areas of significant disturbance are highlighted on the potential environmental sites map included as **Figure 8**.

2. Introduction

2.1 Purpose

WSB was retained by the City to conduct a Phase I ESA of the 2015 Bassett Creek Main Stem Restoration Project which extends 1.7 miles from Rhode Island Avenue North to Duluth Street in Golden Valley, Hennepin County, Minnesota (the subject property). The objective of the assessment was to identify RECs associated with the property according to ASTM E1527-13 "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessments".

The ASTM E1572-13 Standard defines the term *recognized environmental condition* as meaning "the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment." The term is not intended to include *de minimis* condition's that generally do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate

governmental agencies. Conditions determined to be de minimis are not recognized environmental conditions.

2.2 Scope of Services

The Scope of Services performed by WSB is defined by the ASTM E1527-13 Standard and the methodologies and procedures described in the body of this report. The ASTM E1527-13 Standard is intended to permit a user to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations on CERCLA liability, which is the practice that constitutes "all appropriate inquiry into previous ownership and uses of the property with good commercial or customary practice" as defined in 42 U.S.C. 9601 (35) (B).

2.3 Assessment Limitations and Assumptions

This Phase I ESA was performed in accordance with ASTM E1527-13 Standard Practice for Environmental Site Assessments. No conditions were encountered that were determined to be significantly limiting to the purpose of this assessment.

Additionally, the following assumptions should be noted:

- The detailed history of land use and ownership to satisfy the purpose of this Phase I ESA was determined from the Scope of Services listed in **Section 2.2** and title reviews were not conducted. The lack of a title review is not a significant data gap.

- The creek restoration areas were not clearly defined at the time of this Phase I ESA. The subject property was conservatively assumed to include a 200 foot radius from the Bassett Creek Main Stem from Rhode Island Avenue North to Duluth Street in Golden Valley, MN.

- Since the City does not own all the land within the subject property boundary, this Phase I ESA focuses solely on potential impacts associated with the soil and sediments that are anticipated to be excavated and disturbed during implementation of the restoration project. The implementation of this project will not change the land use or ownership of the property.

- This Phase I ESA did not include the completion of soil borings, the installation of groundwater monitoring wells, or the collection of soil or groundwater samples. In addition, this assessment did not include collecting or analyzing samples from the presence of asbestos, PCBs, lead-based paint, lead in drinking water, radon, or urea formaldehyde as this is beyond the scope of the ASTM E1527-13.

2.4 Special Terms and Conditions

The findings and conclusions presented in this report are based on the general guidance provided by ASTM E1527-13, available data cited in this report, and property conditions noted at the time of the site reconnaissance. A Phase I ESA cannot wholly eliminate the uncertainty regarding the potential for REC at the property.

This assessment is intended to reduce, but not eliminate, uncertainty related to the potential for RECs in connection with the property within reasonable time limits and cost. The conclusions and recommendations contained in this report represent WSB's professional opinions. These opinions are arrived at in accordance with currently acceptable current Phase I ESA practices and are subject to the inherent limitations of environmental assessments outlined in this section.

WSB obtained, reviewed, and evaluated information provided by property owner/representatives, Environmental Data Resources Inc. (EDR), Historical Information Gatherers, Inc. (HIG), and local/public entities. WSB's conclusions, opinions, and recommendations are based in part on this information. WSB's services did not include the verification of the accuracy or authenticity of this information as this is beyond the scope of a Phase I ESA per ASTM guidelines.

This report is based upon the standard gathered historical information (ASTM E1527-13) and WSB's observations made during the site reconnaissance. Given the inherent limitations of environmental assessment work, WSB does not guarantee that the property is free of hazardous or potentially hazardous materials or conditions, or that latent or undiscovered conditions will not become evident in the future. WSB's report is prepared in accordance with WSB's Scope of Work and no other warranties, representations, or certifications are made.

2.5 Previous Environmental Documents

WSB is not aware of any previous environmental documents prepared for the subject property.

3. Site Description

3.1 Subject Property Location

The subject property is approximately 100 acres in size and located within portions of Section 28, 29, and 32, Township 118 North, and Range 21 West, in Golden Valley, MN. The subject property consists of a 1.7 mile corridor that extends from Rhode Island Avenue North to Duluth Street in Golden Valley, MN. For the purposes of this assessment, the subject property consists of a 200 foot radius from the Bassett Creek Main Stem along property reach. For ease of discussion, the subject property

was divided into five different areas (Areas A-E). A subject property location map is included as **Figure 1**.

3.2 Property Setting

The subject property is characterized by an incised creek channel that is located within urbanized residential, recreational, and commercial properties. The property is generally wooded and is adjoined primarily by residential properties. The property also transects the Golden Valley Country Club (Area B) and is adjoined by commercial properties to the south of Area A and east of Area E. The Minneapolis Northfield and Southern railroad line transects the property on the eastern portion in between Areas D and E and the Chicago and Western railroad line adjoins the property to the south of Area A.

3.3 Current and Historic Property Use

The subject property is currently developed for urbanized residential, recreational, and commercial uses. Based on historical review, the subject property and surrounding area was developed for residential and cropland dating back to least 1937. Residential development of the area increased dramatically from 1947 through 1964 and commercial development followed from 1964 through 1991. The property use has been basically unchanged since 1991. Additional details regarding historic property use is included in **Section 5.3**.

3.4 Description of Structures, Roads, and Improvements

Portions of various residential dwellings, storage buildings, and garages occupy the subject property. In addition, a golf course maintenance building, a senior housing complex, two multifamily housing complexes, and a commercial building also occupy portions of the subject property. The subject property transects portions of Rhode Island Avenue North, Quebec Avenue North, Pennsylvania Avenue North, Hampshire Avenue North, Florida Avenue North, Douglas Drive, St. Croix Avenue North, and Duluth Street. An active railroad line is present just south of the subject property (Chicago and Northwestern) and another railroad line transects the properties on the eastern portion (Minneapolis Northfield and Southern).

The City is proposing a creek restoration project within the project area. The proposed activities will include excavation, grading, bank stabilization, and tree removal at selected locations along the 1.7 mile subject property reach. The creek stabilization and restoration locations have yet to not be determined and are anticipated to only make up a fraction of the entire 1.7 property reach. The main focus of this Phase I ESA was to identify potential areas of environmental concern that will potentially be impacted during restoration activities.

3.5 Adjoining Properties

The adjoining property use was noted on November 19, 2013 by WSB. The adjoining land use is described below:

North:	Areas A, C, and D: Residential Area B: Recreational (Golden Valley Country Club) Area E: Residential and commercial
East:	Areas A, D, and E: Residential and commercial
South:	Area A: Residential and commercial Area B: Recreational (Golden Valley Country Club) Areas C and D : Residential
West:	Areas A, D, and E: Residential and commercial

4. User Provided Information

In order to satisfy the requirements of All Appropriate Inquiries (AAI), the property user was provided an environmental questionnaire. The user is the party seeking to use the Phase I ESA and has specific obligations under ASTM E1527-13. WSB provided a user questionnaire to Jeff Oliver (Golden Valley City Engineer) for the purpose of satisfying the user provided requirement for ASTM and AAI procedures.

Mr. Oliver was not aware of any hazardous substance or petroleum product litigation, administrative proceedings, violations, recognized environmental conditions, environmental liens, or reduction in value associated with the subject property. In addition, he was not aware of any environmental permits, underground storage tanks, aboveground storage tanks, or environmental report documents associated with the property. A copy of the completed user questionnaire is included as **Appendix A.**

5. Records Review

5.1 Regulatory Records Review

A Federal and State database review was conducted by Environmental Data Resources Inc. (EDR) a commercial regulatory database service firm. An Environmental EDR report was generated for the subject property on November 21, 2013. This report was used to identify verified or potential hazardous substances and petroleum releases associated with the property, adjoining properties, and surrounding. A copy of the EDR Report is included as **Appendix B.**

The Federal and State regulatory agencies database evaluated and the approximate minimum search distances used are consistent with the ASTM E1572-13 Standard Practice. The EDR Report includes descriptions of the databases examined, and radius maps showing the locations of the sites identified (see last page of EDR Report for map).

Subject Property

One database listing identified in the EDR Report was located on the subject property. The listing was identified on the Minnesota Pollution Control Agency's "What's In My Neighborhood" (MN WIMN) and listed as the 2012 Bassett Creek Restoration Project. The activity was listed as a construction stormwater permit and the address was unknown. Inclusion on the MN WIMN database means that the site is listed on an air quality, hazardous waste, remediation, solid waste, tanks and leaks, or water quality database and does directly indicate a hazardous material spill or release. However, it appears this listing is mislabeled and associated with the 2012 Bassett Creek Restoration Project which took place south of the subject property.

Based on the information provided in the EDR Report and type of database listing; this listing does not represent a recognized environmental condition at this time.

Adjoining Properties

Four database listings identified in the EDR Report were determined to be for adjoining properties. Many of the adjoining sites were list on more than one database. Below is a summary of the identified adjoining database listings:

- *Bassett Creek Medical Dental Building*
  5851 Duluth Street, Golden Valley, MN 55422
  Regulator Report ID: 3
  Potential Environmental Site ID: E-2

  This site is occupied by several medical and dental practices and was listed on the facility index system (FINDS), hazardous waste non-generator (RCRA NonGen/NLR), and conditionally exempts small quantity hazardous waste generator (RCRA-CESQG), and MN WIMN databases. Inclusion on FINDS database indicates the site is listed on a facility index database (likely triggered by a hazardous waste generator permit) and does not directly indicate a hazardous material spill or release. Inclusion on the RCRA NonGen/NLR means that the site no longer generates hazardous materials and inclusion on the RCRA-CESQG means the site generates, transports, stores, treats, or disposes of less than 100 kilograms of hazardous waste, or less than 1 kilogram of acutely hazardous waste per month. According to the EDR Report, the hazardous

materials present at this site are classified as DOO2 (corrosive waste) and there was no indication of a hazardous material violation or release.

- *Colonial Acres Home Inc.*
  5825 St. Croix Avenue North, Golden Valley, MN 55422
  Regulator Report ID: 5
  Potential Environmental Site ID: D-3

  This site was listed on the RCRA-CESQG, FINDS, and MN WIMN databases. According to the EDR Report, the hazardous materials present at this site are classified as D001 (ignitable waste), DOO2 (corrosive waste) and X002 (polychlorinated biphenyls). There was no indication of a hazardous material violation or release.

- *Conrad Mauersberger Property*
  1620 East Constance Drive, Golden Valley, MN 55422
  Regulator Report ID: 7
  Potential Environmental Site ID: D-2

  This site was listed on the LUST and MN WIMN databases. According to the EDR Report, a fuel oil tank release was discovered at this site in 1994. A total of 10 cubic yards of contaminated soil was excavated and removed from the site. The release was issued "site closure" by the MPCA in 1995 indicating the identified contamination, if present, does not appear to pose a threat to public health or the environment under current conditions (note: site closure does not indicate the site is free of contamination). No additional information was available regarding the release.

- *Randal Pool and Spa*
  6200 Golden Valley Road, Golden Valley, MN 55422
  Regulator Report ID: 11
  Potential Environmental Site ID: C-3

  This site was listed on the MN SPILLS database. According to the EDR Report, hydrochloric acid used to remove paint from a swimming pool was drained into the storm sewer that enters Bassett Creek in 1992. No cleanup or release volume details were included in the EDR Report and the spill closure date was not reported. No additional information was provided regarding this release.

Based on the information provided in the EDR Report, type of database listings, distance from the subject property in reference to the anticipated groundwater flow direction (east/northeast towards the Mississippi River), and regulatory status (all LUST sites closed by the MPCA); the adjoining property listings do not represent a recognized environmental condition at this time.

Surrounding Area

The EDR Report identified twelve (12) additional sites within a 1/8 of mile radius of the subject property. Many of these sites are listed on more than one database. The majority of the listings were for MN WIMN listings (11) and SPILLS sites (5). All of the identified SPILLS database listings have been closed by the MPCA except for four sites. The unclosed SPILLS sites are releases associated with traffic accidents, unpermitted storm sewer discharge, and releases of natural gas. These releases appear to be small in nature and did not require further investigation or cleanup.

In addition, there were two RCRA-CESQG listings, one RCRA-NonGen/NLR listing, one hazardous materials incident report system (HMIRS) listing, one integrated compliance information system (ICIS) listing, one material licensing tracking system (MLTS) listing, thee FINDS listings, one site remediation (MN SRS) listing, one Minnesota list site (MN LS) listing, two LUST listings (all of which have been closed by the MPCA), two UST listings, one leaky above ground storage tank (LAST) listing (closed by the MPCA), one manifest (WI MANIFEST) listing, one voluntary investigation and cleanup program (VIC) listing, on air permitted (MN AIRS) listing, and three hazardous material manufacture facility (MN TIER 2) listings identified in the surrounding area.

Based on the information indicated in the EDR Report, database listing types, regulatory status, distances from the property, and locations relative to the estimated groundwater flow direction (east/northeast towards the Mississippi River), these listings do not represent a recognized environmental condition at this time.

However, the following six sites were noted as potential environmental sites:

- *Kings of Grace Lutheran Church*
  6000 Duluth Street, Golden Valley, MN 55422
  Regulator Report ID: 1
  Potential Environmental Site ID: E-5

  This site was listed on the LUST, UST, SPILLS, and MN WIMN databases. A fuel oil release was discovered at this site in 1989. According to the EDR Report, a fuel oil tank leak was discovered at the property in 1989. The release was issued "site closure" by the MPCA in 1989 indicating the identified contamination, if present, does not appear to pose a threat to public health or the environment under current conditions (note: site closure does not indicate the site is free of contamination). The site UST was reportedly removed.

- *Bassett Creek Plaza*
  5801 Duluth Street, Golden Valley, MN 55422
  Regulator Report ID: 4

Potential Environmental Site ID: E-3

This site was listed on the RCRA-CESQG, MLTS, FINDS, RCRA-NonGen/NLR, ICIS, and MN WIMN databases. This site is occupied by multiple tenants and the hazardous materials present are classified as DOO1 (ignitable waste) and F001 (spent halogenated solvents). There was no indication of a hazardous material violation or release for this site.

- *Colonial Acres Home Inc.*
  5800 St. Croix Avenue North, Golden Valley, MN 55422
  Regulator Report ID: 5
  Potential Environmental Site ID: E-1

  This site was listed on the underground storage tank (UST), leaky underground storage tank (LUST), release (SPILLS), and MN WIMN databases. According to the EDR Report, a diesel fuel tank leak was discovered at the property in 1993. A total of 11 cubic yards of contaminated soil was excavated and removed from the site and groundwater was impacted. The release was issued "site closure" by the MPCA in 1995 indicating the identified contamination, if present, does not appear to pose a threat to public health or the environment under current conditions (note: site closure does not indicate the site is free of contamination). A 300 gallon diesel tank is reportedly currently present at the site.

  In addition, a sewer release was reported at this site 1996. According to the EDR Report, an equipment failure occurred and caused a sewer back up in the underground parking garage. No additional information was available regarding the sewer release.

- *Furniture Replacement Services*
  6100 Golden Valley Road, Golden Valley, MN 55422
  Regulator Report ID: 9
  Potential Environmental Site ID: D-1

  This site was listed on the SPILLS database. According to the EDR Report, a semi-truck when over a cliff in 1995 and causing light fuel oil and diesel fuel to be released. No cleanup or release volume details were included in the EDR Report and the spill closure date was not reported. No additional information was provided regarding this release.

- *Center Point Energy – Golden Valley*
  6161 Golden Valley Road, Golden Valley, MN 55422
  Regulator Report ID: 13
  Potential Environmental Site ID: C-2

This site was listed on the MN SRS, MN LS, VIC, MN AIRS, MN TIER 2, RCRA-CESQG, FINDS, and WI MANIFEST databases. According to the EDR Report, the site has 18 flow meter stations along a natural gas pipeline and a mercury release has impacted site soils. The site was entered into the MPCA VIC Program in 2007 and a No Action Letter was issued for the mercury contaminated soil located inside a meter building only. The site has 40 ASTs that contain propane (liquefied petroleum gas) and has hazardous materials present classified as D001 (ignitable waste), D002 (corrosive waste), D003 (reactive waste), and F003 (spent non-halogenated solvents).No additional information was provided regarding this site and mercury release.

- *Center Point Energy Gas Line*
  Golden Valley Road and Douglas Drive North, Golden Valley, MN 55422
  Regulator Report ID: 15
  Potential Environmental Site ID: C-1

  This site was listed on the SPILLS database. According to the EDR Report, a pipe failed during depressurizing resulting in a natural gas release. The pipe was repaired and no other details were available.

Unmapped Orphan Sites

Unmapped orphan sites are sites which EDR could not determine an exact location due to incomplete or inaccurate database information. The EDR Report did not identify any orphaned sites.

5.2 Physical Setting Information

Topography: Based on the Unites States Geological Survey (USGS) 7.5-minute topographic quadrangle maps, the subject property ranges in elevation from 890 feet above mean sea level in the western portion to 864 feet in the eastern portion (see **Figure 2**). The property topography slopes generally from north to south/southeast and is characterized by an incised creek channel. The property is surrounded by urbanized residential, recreational, and commercial areas.

Groundwater: Shallow groundwater at the property is anticipated to occur at the creek elevation of approximately 890 feet above sea level on the western portion of the property and 864 feet on the eastern portion of the property. The estimated shallow groundwater flow direction is east/northeast towards the Mississippi River.

Soils: According to the Soil Survey of Hennepin County, the property soils consist of Malardi-Hawick complex and Bisclay loam in Area A; Malardi-Hawick complex, Bisclay laom, and Urban land-Udorthents in Area B; Malardi-Hawick complex and Bisclay loam in Area C; Bisclay loam, Medo soils, and Urban land-Udorthents in Area D; and Medo soils in Area E. A Hennepin County Soils Map is included as **Figure 3**.

Geology: The property surficial geology consists of New Ulm outwash and Quaternary peat and muck as outlined on **Figure 4**. The underlying property bedrock consists of the Platteville-Glenwood and St. Peter Sandstone formations as outlined on **Figure 5**. The depth to bedrock is estimated to be greater than 40 feet below ground surface (bgs).

Wells: The MDH County Well Index Online was reviewed to determine if wells are present on the property or surrounding area. The well search did not identify any on the subject property and identify 27 wells located within 1,000 feet of the property. A well index map is included as **Figure 6.**

5.3 Historical Use Information

WSB reviewed historical information to determine if past subject property uses have led to recognized environmental conditions. WSB consulted historical sources that were readily available, practically reviewable, and likely to be useful to determine the past history of the property within the timeframe and constraints of this Phase I ESA. The sources consulted included the following.

- ***Fire Insurance Maps****:* Sanborn fire insurance maps were requested from Historical Information Gathers, Inc. (HIG) for the property. Often, areas of potential environmental concern, such as locations of former storage tanks or hazardous substance storage, can be identified by referencing fire insurance maps. The property was not covered in the Sanborn fire insurance map search conducted by HIG. A copy of the searched Sanborn abstract report is included in **Appendix C**.

- ***City Directories****:* City directories provide a history over time by listing address and occupant information (i.e. resident and/or commercial business names) and can be useful in identifying sites of potential environmental concern. Due to the large size of the subject property City Directories were not reviewed during this Phase I ESA.

- ***Historical Aerial Photographs****:* HIG provided aerial photography of the subject property and surrounding area dating back to 1937. Aerial photographs were reviewed for the years 1937, 1940, 1947, 1953, 1957, 1964, 1969, 1979, 1984, 1991, 1997, 2003, and 2010 (see **Appendix D**). In addition, a property aerial from 2012 is included as **Figure 1**. Based on the aerial review, the following observations were made:

  <u>*Aerial Photograph Review – Area A*</u>

  Property: The property is sparsely tree covered on the 1937 through 1947 photographs. The tree cover increases on the 1953 through 1964 photographs

and the property is mostly unchanged on the 1964 through 2010 photographs. No obvious environmental items of note were observed.

Surrounding Properties: The surrounding area is primarily developed with residential and cropland on the 1937 through 1947 photographs and the number of residential houses increases on the 1947 through 1964 photographs. The area to the south is significantly disturbed in the 1957 through 1964 photographs and transitions into commercial use on the 1964 through 1987 photographs. The railroad line to the south is present on the 1937 through 2010 photographs. The area to the east is developed with a golf course on the 1937 through 2010 photographs. The surrounding area is basically unchanged on the 1987 through 2010 photographs.

Aerial Photograph Review – Area B

Property: The property is sparsely tree covered and developed with a golf course on the 1937 through 2010 photographs. The residential neighborhood on the eastern portion of the property is present on the 1953 through 2010 photographs. No obvious environmental items of note were observed.

Surrounding Properties: The surrounding area is primarily developed with a golf course on the 1937 through 2010 photographs. The area to the east and west is developed for residential and cropland use on the 1937 through 1947 photographs and the number of residential houses increase on the 1953 through 1964 photographs. The surrounding area is basically unchanged on the 1964 through 2010 photographs.

Aerial Photograph Review – Area C

Property: The property is sparsely tree covered on the 1937 through 1947 photographs. The tree cover increases on the 1953 through 1964 photographs and the property is basically unchanged on the 1964 through 2010 photographs. The railroad line that transects the property on the eastern portion is present on the 1937 through 2010 photographs. No obvious environmental items of note were observed.

Surrounding Properties: The surrounding area is primarily developed with residential and cropland on the 1937 through 1947 photographs. Residential development of the area increases on the 1953 through 1964 photographs and the surrounding area is basically unchanged on the 1964 through 2010 photographs. The recreational field to the south is first present on the 1964 photograph and the multifamily housing complex to the south is first present on the 1964 photograph. The multifamily complex to the north is first present on the 2003 photograph.

Aerial Photograph Review - Area D

Property: The property is sparsely tree covered in the 1937 through 1947 photographs. The tree cover increases in the 1953 through 1964 photographs as the surrounding area gets developed for residential use. The property is mostly unchanged in the 1964 through 2010 photographs. No obvious environmental items of note were observed.

Surrounding Properties: The surrounding area is primarily developed with residential and cropland in the 1937 through 1953 photographs. Residential development of the area increases in the 1957 through 1964 photographs and the multifamily housing complex to the south is first present on the 1969 photograph and the senior living complex to the east is first present on the 1979 photograph. The surrounding area is basically unchanged in the 1979 through 2010 photographs.

Aerial Photograph Review - Area E

Property: The property is sparsely tree covered in the 1937 through 1947 photographs. The tree cover increases in the 1953 through 1979 photographs as the surrounding area gets developed for residential and commercial use. The property is mostly unchanged in the 1979 through 2010 photographs. No obvious environmental items of note were observed.

Surrounding Properties: The surrounding area is primarily developed with residential and cropland in the 1937 through 1957 photographs. A gravel pit is present to the northeast on the 1947 through 1964 photographs. Residential and commercial development of the area increases in the 1964 through 1979 photographs and the commercial developments to the north and east are first present on the 1969 photograph. The surrounding area is basically unchanged in the 1979 through 2010 photographs.

- ***Historical Topographic Maps****:* HIG provided historic topographic maps of the subject property and surrounding area dating back to 1896. Topographic maps were reviewed for the years 1896, 1901, 1952, 1954, 1967, 1972, 1977, 1980, and 1993 (see **Appendix E**). Based on the topographic review, the following observations was gathered:

  Property: The property is shaded yellow and red in the 1952 through 1993 maps indicating the property is located within a built up urban area. The property transects various wetland areas as indicated on the 1856 and 1901 maps. The railroad line (Minneapolis Northfield and Southern) that transect the property is labeled on the 1952 through1993 maps. No obvious environmental items of note were observed during the topographical map review.

Surrounding Properties: The surrounding properties are shaded yellow and red in the 1952 through 1993 maps indicating they are located within a built up urban areas. The railroad line to the south (Chicago and Northwestern) is labeled on the 1952 through 1993 maps. A gravel pit to the northeast of the property is labeled on the 1952 map. No obvious environmental items of note were observed during the topographical map review.

6. Site Reconnaissance

6.1 Methodology

Mr. Ryan Spencer of WSB conducted observations of conditions at the subject property and adjoining properties on November 19, 2013. The site reconnaissance included a walkthrough of the property and only public property areas were assessed. No additional limiting conditions were encounter except for those outlined in **Section 2.3**.

6.2 General Site Setting

The property is characterized by an incised creek channel that slopes gradually to the east/northeast. The property is surrounded by urbanized residential, recreational, and commercial areas since the 1950's. The property is adjoined mainly by residential properties and also transects a golf course, multiple streets/roads, and an active railroad line. Various wetlands areas are present on the property and/or located on the creek fringe areas. Select property photographs are included as **Appendix F**.

6.3 Exterior and Interior Observations

WSB conducted observations of the conditions at the subject property and adjoining properties on November 19, 2013. A summary of the site reconnaissance is outlined on the site reconnaissance summary table below:

Site Reconnaissance Summary Table

Issue	Observed During Site Visit		Comments
	Yes	No	
Aboveground & Underground storage tanks	X		A 15,000 gallon above ground storage tank (AST) was observed on the property. The AST was located near the golf course maintenance shed and is used to store water.
Drums and containers		X	None observed
Animals		X	None observed.
Buildings/structures	X		Residential dwellings, storage buildings, multifamily housing buildings, and commercial buildings were located on the property.
Construction/demolition debris		X	None observed.
Drainage ditches	X		Various inlets to Bassett Creek were observed.
Dirt/spoil piles		X	None observed.
Floor drains, sumps, vaults		X	None observed.
Hazardous substances/petroleum products		X	None observed.
Landfills		X	None observed.
Odors		X	None observed.
Oil/water separators		X	None observed.
Pipelines or utilities		X	None observed.
Pits, ponds, lagoons		X	None observed.
Pools of liquid		X	None observed.
Railroad spurs/lines	X		A railroad line is located south of the property and another railroad line transects the property on the eastern portion. No obvious environmental concerns were observed in the railroad line areas.
Septic systems		X	None observed.
Solid waste disposal		X	Evidence of yard waste dumping observed.
Solvents		X	None observed.
Spills or releases		X	None observed.
Stained soil/concrete		X	None observed.
Stressed or dead vegetation		X	None observed.
Transformers	X		Numerous pole mounted transformers were present at the property which is owned by the local utility company. The transformers were in good shape and no signs of a release were observed.
Unidentified substances		X	None observed.
Wastewater discharge from property		X	None observed.
Wells		X	None observed on the property but numerous wells were identified in the surrounding area.
Asbestos		X	None observed.
Lead based paint		X	None observed.
Mold/moisture		X	None observed.

7. Interviews

WSB conducted interviews with individuals who may have knowledge of current or past information regarding the subject property. Specifically, WSB made inquiries regarding knowledge of existing or former storage tanks, leaks, spills, drums, clandestine drug labs, or potential environmental concerns associated with the property. The individuals who were interviewed in person, by questionnaire, by phone, or through email are summarized in the table below:

Summary of Interviews

Resource	Title or Organization	Results of Interview
Jeff Oliver	Golden Valley – City Engineer	Mr. Oliver was not aware of any environmental issues or concerns associated with the property (See **Appendix A**).
Mark Kuhnly	Golden Valley - Fire Chief	Mr.Kuhnly was not aware of any environmental issues or concerns associated with the property.

8. Findings and Opinions

8.1 Recognized Environmental Conditions

This Phase I ESA has identified no recognized environmental conditions (RECs) in connection with the subject property.

8.2 Historical Recognized Environmental Conditions

The ASTM E1572-13 Standard defines the term *historical recognized environmental condition (HREC)* as meaning "a past release of any hazardous substance or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted residential use criteria established by a regulatory authority, without subjecting the property to any required controls (e.g., property use restrictions, AULs, institutional controls, or engineering controls). Before calling the past release a HREC, the EP must determine whether the past release is a REC at the time of the Phase I ESA is conducted (e.g., if there has been a change in the regulatory criteria). If the EP considers this past release to be a REC at the time the Phase I ESA is conducted, the conditions shall be included in the conclusion section of the report as a REC."

Based on this assessment, WSB has identified no historical recognized environmental conditions in connection with the subject property.

8.3 Controlled Recognized Environmental Conditions

The ASTM E1572-13 Standard defines the term *controlled recognized environmental condition (CREC)* as meaning "a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (e.g., as evidence by the issuance of NFA letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (e.g., property use restrictions, AULs, institutional controls, or engineering controls). A CREC shall be listed in the Findings Section of the Phase I ESA report, and as a REC in the Conclusions Section of the report."

Based on this assessment, WSB has identified no controlled recognized environmental conditions in connection with the subject property.

8.4 De Minimis Conditions

The regulatory database search identified several database listings in the surrounding area (see **Section 5.1**). Based on the factors affecting the significance of these listings relative to the subject property, the listings represent a de minimis conditions at this time. Conditions determined to be de minimis are not recognized environmental conditions.

8.5 Items of Environmental Note

Adjoining and Surrounding Releases

The regulatory database search identified two adjoining properties and five surrounding area properties (located within 500 feet of the subject property) that have documented releases. There is a potential that these releases have impacted the property soil and/or sediment. The majority of these releases have been issued "site closure" by the MPCA indicating the identified contamination, if present, does not appear to pose a threat to public health or the environment under current conditions (note: site closure does not indicate the site is free of contamination) or have been determined to be small in scale and not require additional investigation and/or cleanup. The adjoining property releases are highlighted on the potential environmental sites map included as **Figure 8**.

Historic Railroad Lines

The property is transected by the Minneapolis Northfield and Southern railroad line on the eastern portion and also adjoined by the Chicago and Northwestern railroad line to the south. There is the potential that historic railroad operations (i.e. derailments, creosote treated railroad ties, routine maintenance, etc.) have resulted

in environmental impacts to the property. No obvious sign of contamination or environmental impacts were observed near the railroad lines during the site reconnaissance. The railroad lines are highlighted on the potential environmental sites map included as **Figure 8**.

Undocumented Fill Materials

Historical aerial photographs and topographic maps indicate the presence of land disturbances (undocumented filling and grading) adjoining many subject property areas. The majority of the land disturbances are for residential purposes and the construction of roads. Two significant land disturbances, one located north of the property (a former gravel pit) and one located south of the property (a commercial development) were identified in the historic review. There is the potential that historic filling and grading has caused environmental impacts to the property. The areas of significant disturbance are highlighted on the potential environmental sites map included as **Figure 8**.

9. Recommendations

WSB has performed this Phase I ESA in conformance with the scope and limitations of ASTM Practice E1527-13 for the 1.7 mile property that extends from Rhode Island Avenue North to Duluth Street in Golden Valley, MN. Exceptions to, or deletions from, this practice are described in **Section 2.3** of this report.

This Phase I ESA has revealed no recognized environmental conditions associated with the subject property (see **Section 8.1**). Therefore, no additional investigation is recommended at the property at this time.

10. Data Gaps

Data gaps are defined as a lack of or inability to obtain information required by the standards and practices despite good faith efforts. Good faith efforts were taken to obtain information about the property from a variety of readily available, practically reviewable, and likely to be useful sources. However, the following information was not able to be obtained:

- Title, Environmental Liens, or Activity and Use Limitation Search were not provided.

Please note that the lack of recorded sources listed above is considered a data gap but is not considered a material limitation for the completion of this Phase I ESA.

11. Qualifications of Environmental Professionals

To the best of our professional knowledge and belief, we have met the definition of Environmental Professional as defined in CFR 312.10 of 40 CFR 312. We have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting. We have developed and performed all appropriate inquiries in general conformance with acceptable standards and practices in the industry.

TABLES

Table 1 - Summary of Potential Environmental Sites
2015 Bassett Creek Main Stem Restoration Project
Golden Valley, MN

Potential Environmental Site ID	Regulatory Report Map ID	Site		Regulatory Listings	Type of Site	Site Details
		Name	Address			
A-1	NA	Chicago & Northwestern Railroad Line	NA	NA	Railroad Facility	Railroad line in operation since at least 1954. No obvious evidence of environmental contamination observed.
A-2	NA	Hennepin County Library	830 Winnetka Ave. N. Golden Valley, MN	NA	Land Disturbance	Significant land disturbance occurred at site from 1957 to 1964. Now developed as a public library.
B-1	NA	Golf Course Storage Bldg.	NA	NA	Recreational Use	Golf course maintenance storage building and 15,000 gallon water AST present at site.
C-1	15	Center Point Energy Gas Line	Golden Valley Rd. & Douglas Dr. N Golden Valley, MN	SPILLS	Commercial	A pipe failed during repressurizing resulting in a natural gas release. The pipe was repaired and no other details are available.
C-2	13	Center Point Energy - Golden Valley	6161 Golden Valley Rd. Golden Valley, MN	MN SRS, MN LS, MN VIC, MN AIRS, MN TIER 2, MN WIMN, RCRA-CESQG, FINDS, WI MANIFEST	Industrial	Site has 18 flow meter stations along a natural gas pipeline. A reported mercury release has impacted site soils. Site was entered into the MPCA VIC Program in 2007 and a No Action Letter was issued for mercury contaminated soil inside the meter building only. The site has 40 ASTs that contain propane (liquefied petroleum gas) and has hazardous materials present classified as D001 (ignitable waste), D002 (corrosive waste), D003 (reactive waste), and F003 (spent non-halogenated solvents).

NA - Not Available

Table 1 - Summary of Potential Environmental Sites
2015 Bassett Creek Main Stem Restoration Project
Golden Valley, MN

Potential Environmental Site ID	Regulatory Report Map ID	Site		Regulatory Listings	Type of Site	Site Details
		Name	Address			
C-3	11	Randal Pool and Spa	6200 Golden Valley Rd. Golden Valley, MN	SPILLS	Commercial	Hydrochloric acid used to remove paint from a swimming pool was drained into the storm sewer that enters Bassett Creek in 1992. No cleanup or release volume details were available and the spill closure date was not reported. No additional information was provided regarding this release.
C-4	NA	Minneapolis Northfield and Southern	NA	NA	Railroad Facility	Historic railroad line in operation since at least 1954. No obvious evidence of environmental contamination observed.
D-1	9	Furniture Replacement Services	6100 Golden Valley Rd. Golden Valley, MN	SPILLS	Commercial	An auto accident occurred in 1995 causing light fuel oil and diesel fuel to be released. No cleanup or release volumes were reported and the spill closure date was not reported.
D-2	7	Conrad Mauersberger Property	1620 E. Constance Dr. Golden Valley, MN	LUST	Residence	A fuel oil tank release was discovered at site in 1994. A total of 10 cubic yards of contaminated soil was excavated and removed from the site. The release was issued “site closure” by the MPCA in 1995.
D-3	5	Colonial Acres Home Inc.	5825 St. Croix Ave. N. Golden Valley, MN	RCRA-CESQG, FINDS, MN WIMN	Commercial	Hazardous materials present at this site are classified as D001 (ignitable waste), DOO2 (corrosive waste) and X002 (polychlorinated biphenyls). There was no indication of a hazardous material violation or release.

NA - Not Available

Table 1 - Summary of Potential Environmental Sites
2015 Bassett Creek Main Stem Restoration Project
Golden Valley, MN

Potential Environmental Site ID	Regulatory Report Map ID	Site		Regulatory Listings	Type of Site	Site Details
		Name	Address			
E-1	5	Colonial Acres Home Inc.	5800 St. Croix Ave. N. Golden Valley, MN	UST, LUST, SPILLS, MN WIMN	Commercial	A diesel fuel tank leak was discovered at the property in 1993. A total of 11 cubic yards of contaminated soil was excavated and removed from the site and groundwater was impacted. The release was issued "site closure" by the MPCA in 1995. Also a sewer release was reported at this site 1996 resulting from an equipment failure that caused a sewer back up in the underground parking garage. No additional information was available regarding the sewer release.
E-2	3	Bassett Creek Medical Dental Bldg.	5851 Duluth St. Golden Valley, MN	FINDS, (No Suggestions)/NLR, RCRA-CESQG, MN WIMN	Medical Facility	Site is occupied by several medical and dental practices. The hazardous materials present are classified as DOO2 (corrosive waste). There was no indication of a hazardous material violation or release listed for this site.
E-3	4	Bassett Creek Plaza Bldg.	5801 Duluth St. Golden Valley, MN	RCRA-CESQG, MLTS, FINDS, RCRA-NonGen/NLR, ICIS, MN WIMN	Commercial	Site is occupied by multiple tenants. The hazardous materials present are classified as DOO1 (ignitable waste) and F001 (spent halogenated solvents). There was no indication of a hazardous material violation or listed for this site.
E-4	NA	Mendota District Office	2055 Lilac Dr. N. Golden Valley, MN	NA	Land Disturbance	A gravel pit was located on this site on the 1947 through 1964 photographs. Now developed as a MnDOT District offices.

NA - Not Available

Table 1 - Summary of Potential Environmental Sites
2015 Bassett Creek Main Stem Restoration Project
Golden Valley, MN

Potential Environmental Site ID	Regulatory Report Map ID	Site		Regulatory Listings	Type of Site	Site Details
		Name	Address			
E-5	1	Kings of Grace Lutheran Church	6000 Duluth St. Golden Valley, MN	LUST, UST, SPILLS, MN WIMN	Commercial	A fuel oil release was discovered at this site in 1989. The release was issued "site closure" by the MPCA in 1989. The site UST was reportedly removed.

NA - Not Available

FIGURES

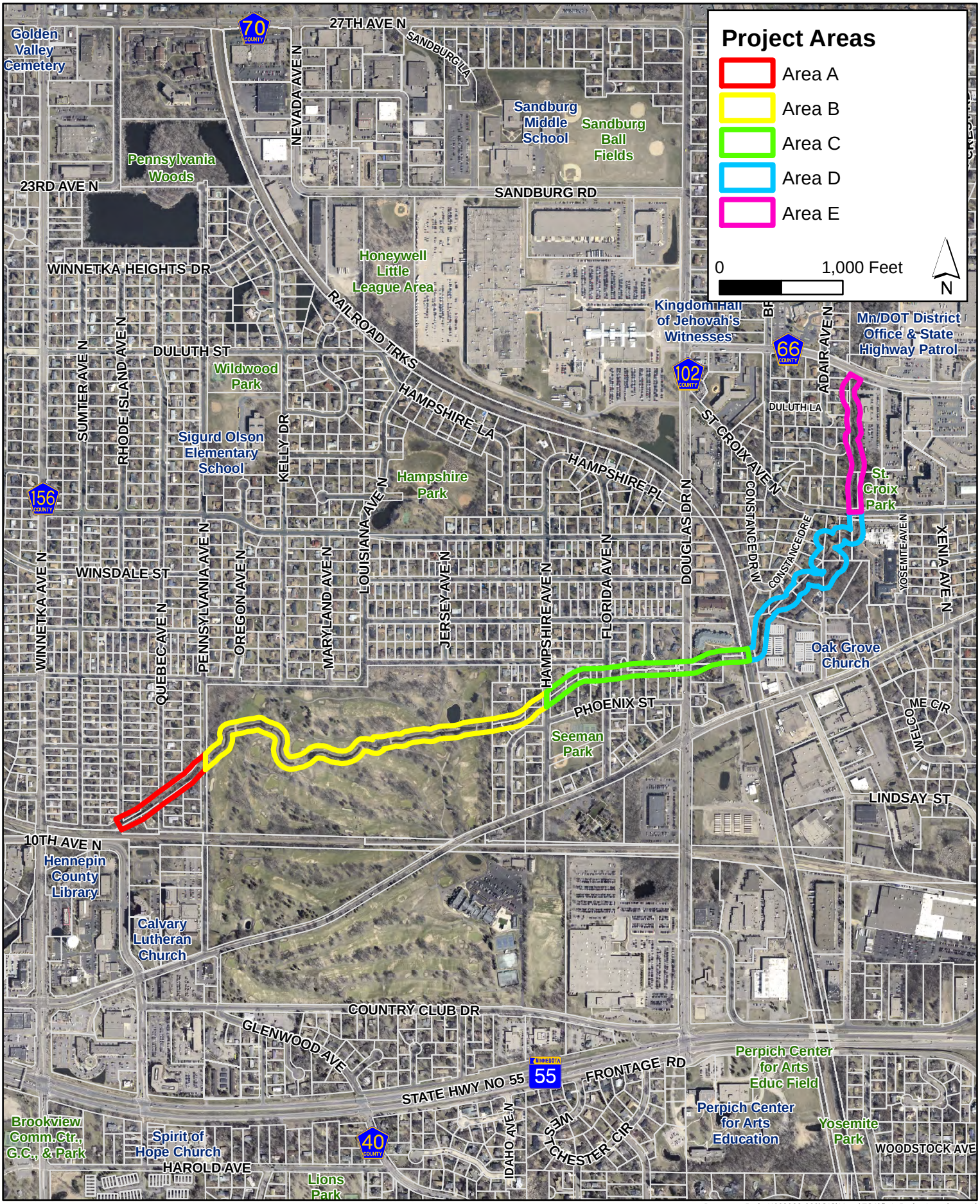

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Figure 1: Project Location
2015 Bassett Creek Main Stem Restoration Project
City of Golden Valley, Minnesota

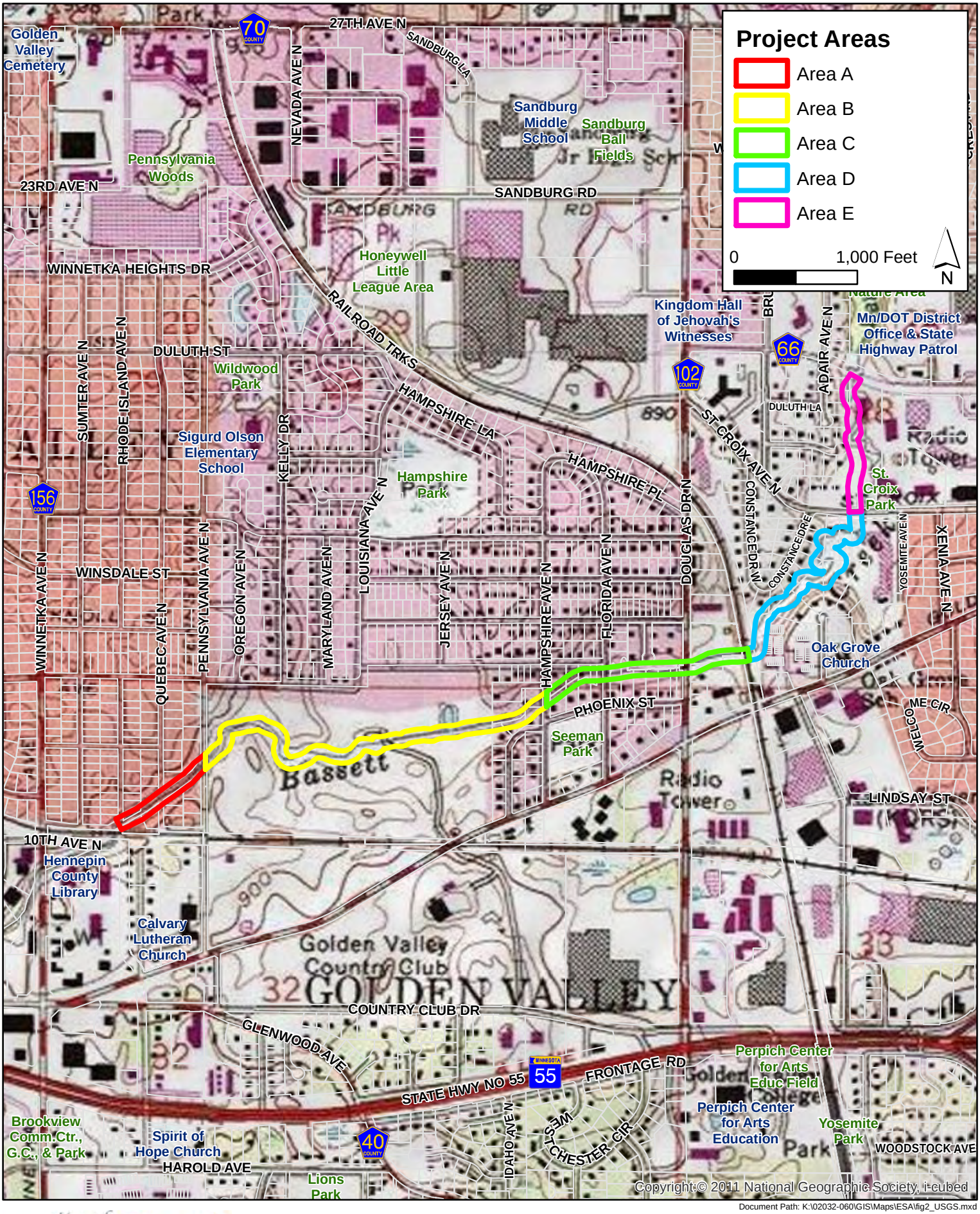

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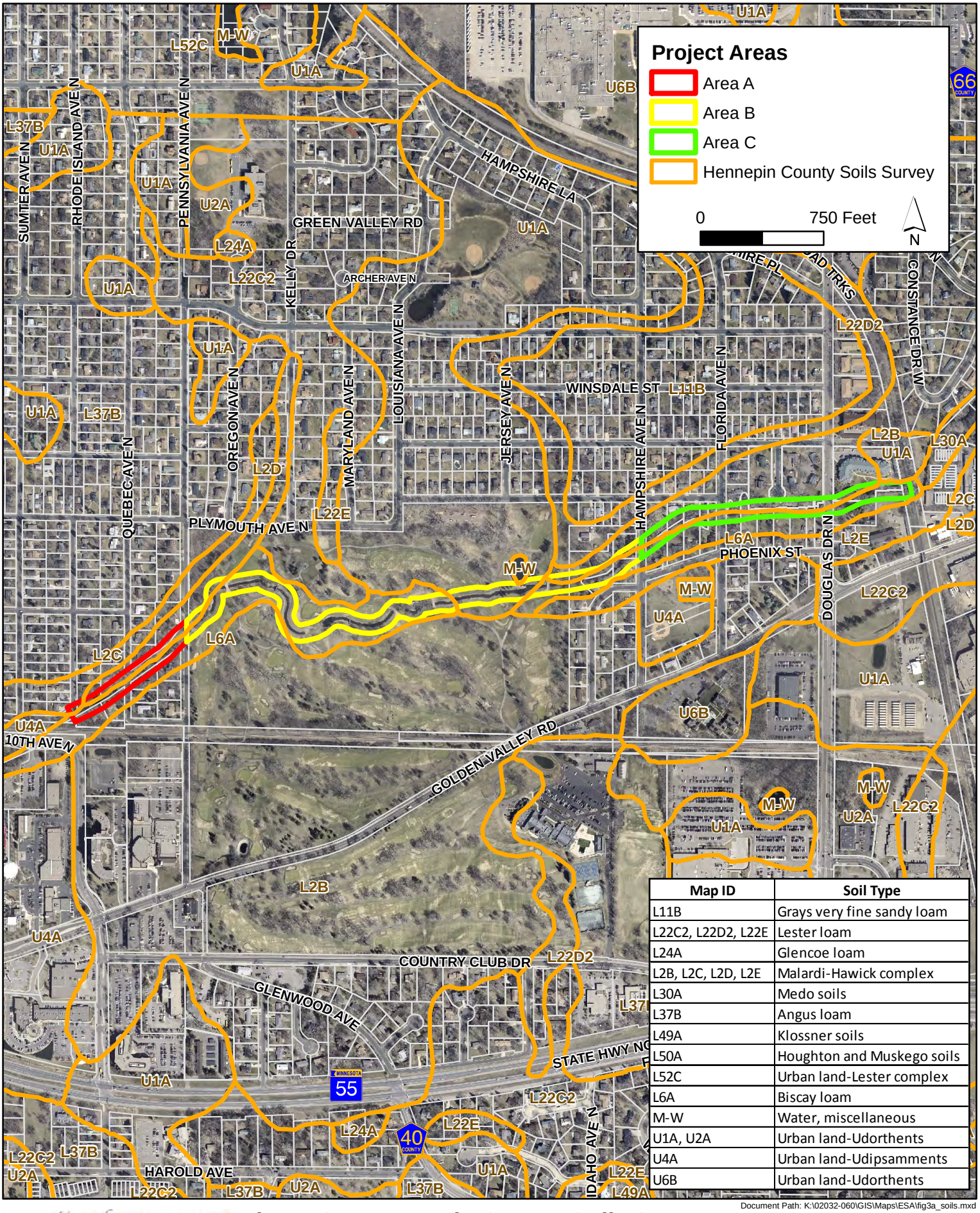
Figure 2: USGS Topological Map
2015 Bassett Creek Main Stem Restoration Project
City of Golden Valley, Minnesota



Map ID	Soil Type
L11B	Grays very fine sandy loam
L22C2, L22D2, L22E	Lester loam
L24A	Glencoe loam
L2B, L2C, L2D, L2E	Malardi-Hawick complex
L30A	Medo soils
L37B	Angus loam
L49A	Klossner soils
L50A	Houghton and Muskego soils
L52C	Urban land-Lester complex
L6A	Biscay loam
M-W	Water, miscellaneous
U1A, U2A	Urban land-Udorthents
U4A	Urban land-Udipsamments
U6B	Urban land-Udorthents

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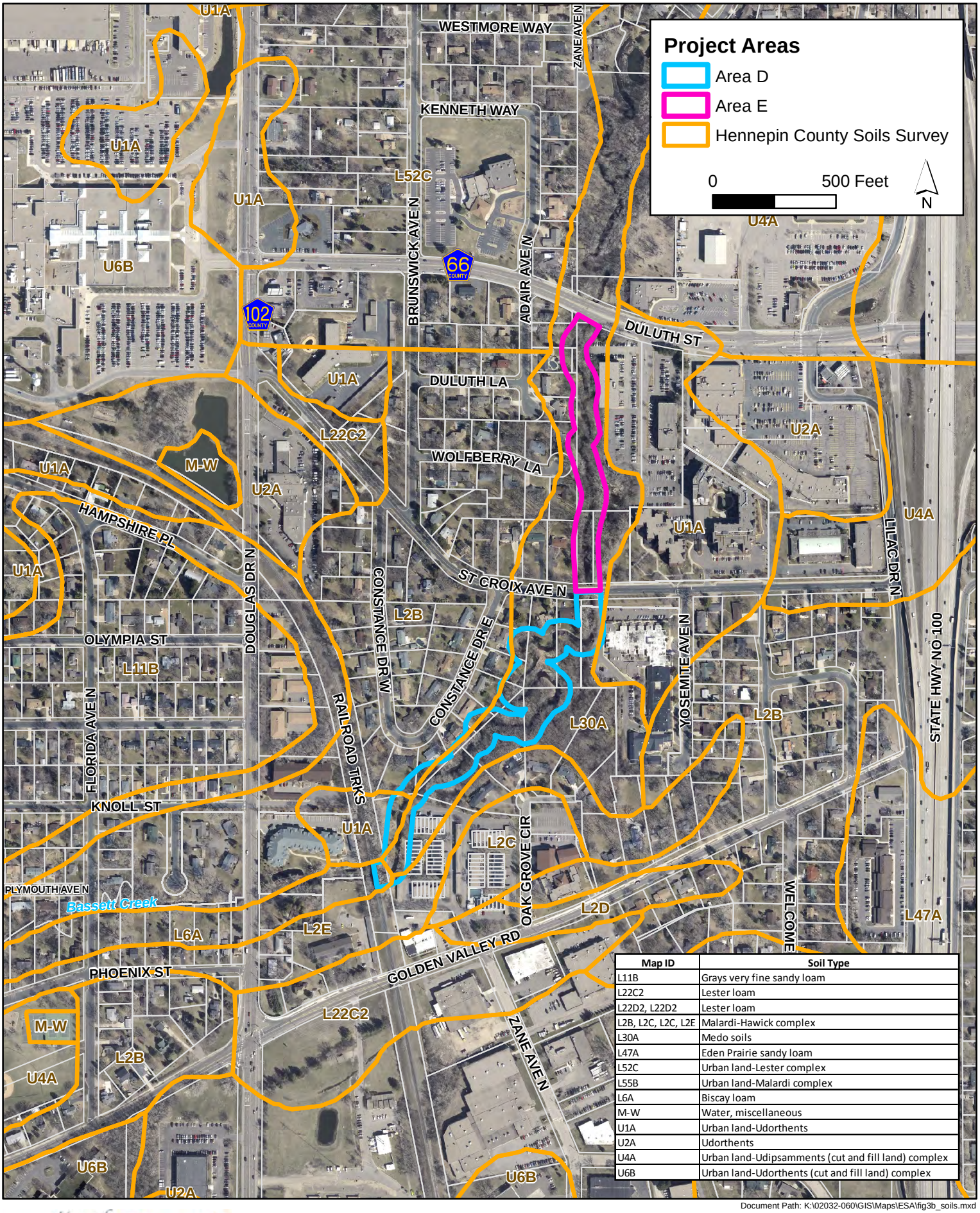
city of golden valley

Figure 3A: Hennepin County Soils Survey
2015 Bassett Creek Main Stem Restoration Project
City of Golden Valley, Minnesota

Bassett Creek Watershed Management Commission

WSB & Associates, Inc.



Map ID	Soil Type
L11B	Grays very fine sandy loam
L22C2	Lester loam
L22D2, L22D2	Lester loam
L2B, L2C, L2C, L2E	Malardi-Hawick complex
L30A	Medo soils
L47A	Eden Prairie sandy loam
L52C	Urban land-Lester complex
L55B	Urban land-Malardi complex
L6A	Biscay loam
M-W	Water, miscellaneous
U1A	Urban land-Udorthents
U2A	Udorthents
U4A	Urban land-Udipsamments (cut and fill land) complex
U6B	Urban land-Udorthents (cut and fill land) complex

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Figure 3B: Hennepin County Soils Survey
2015 Bassett Creek Main Stem Restoration Project
City of Golden Valley, Minnesota

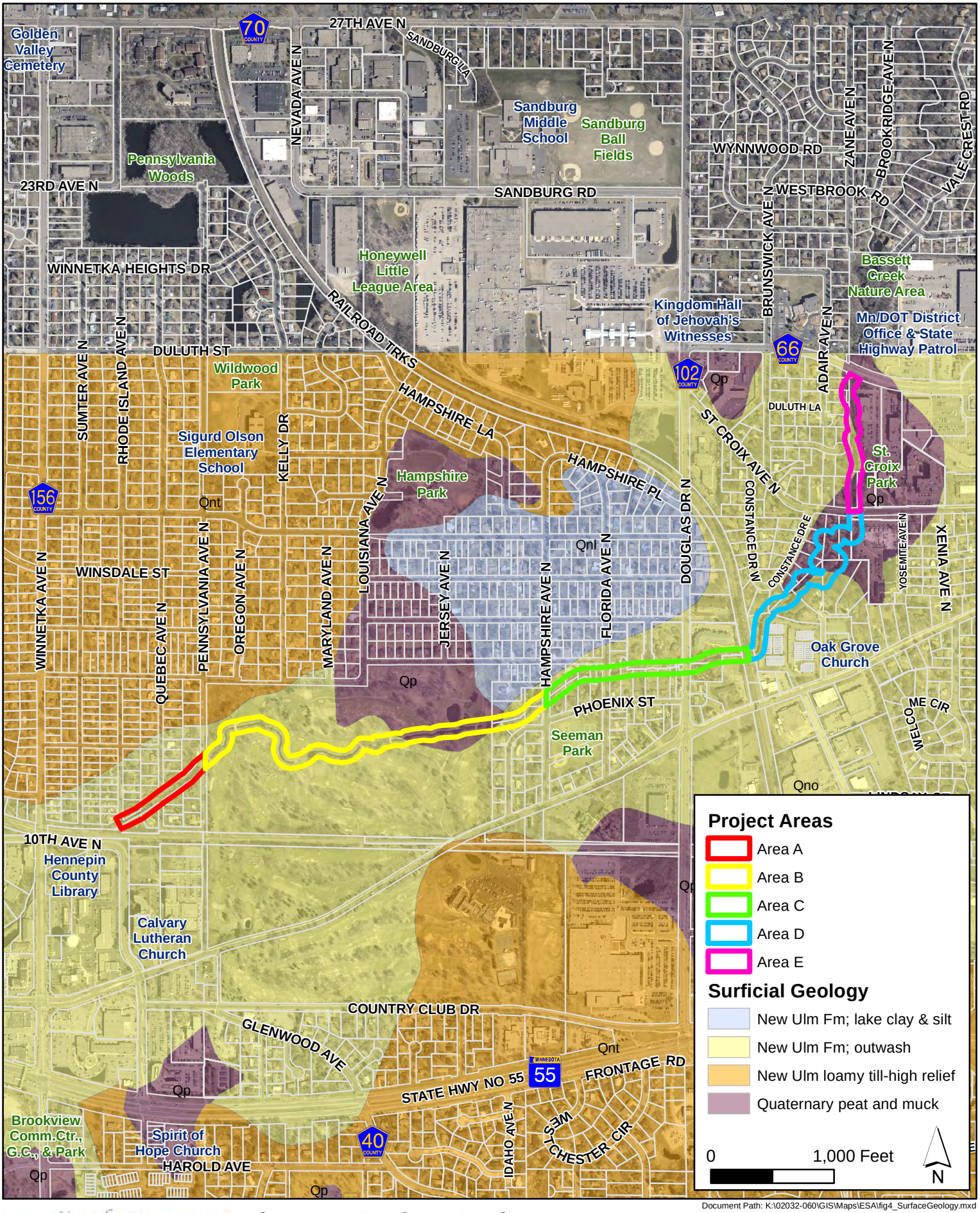

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Figure 4: Surface Geology
2015 Bassett Creek Main Stem Restoration Project
City of Golden Valley, Minnesota

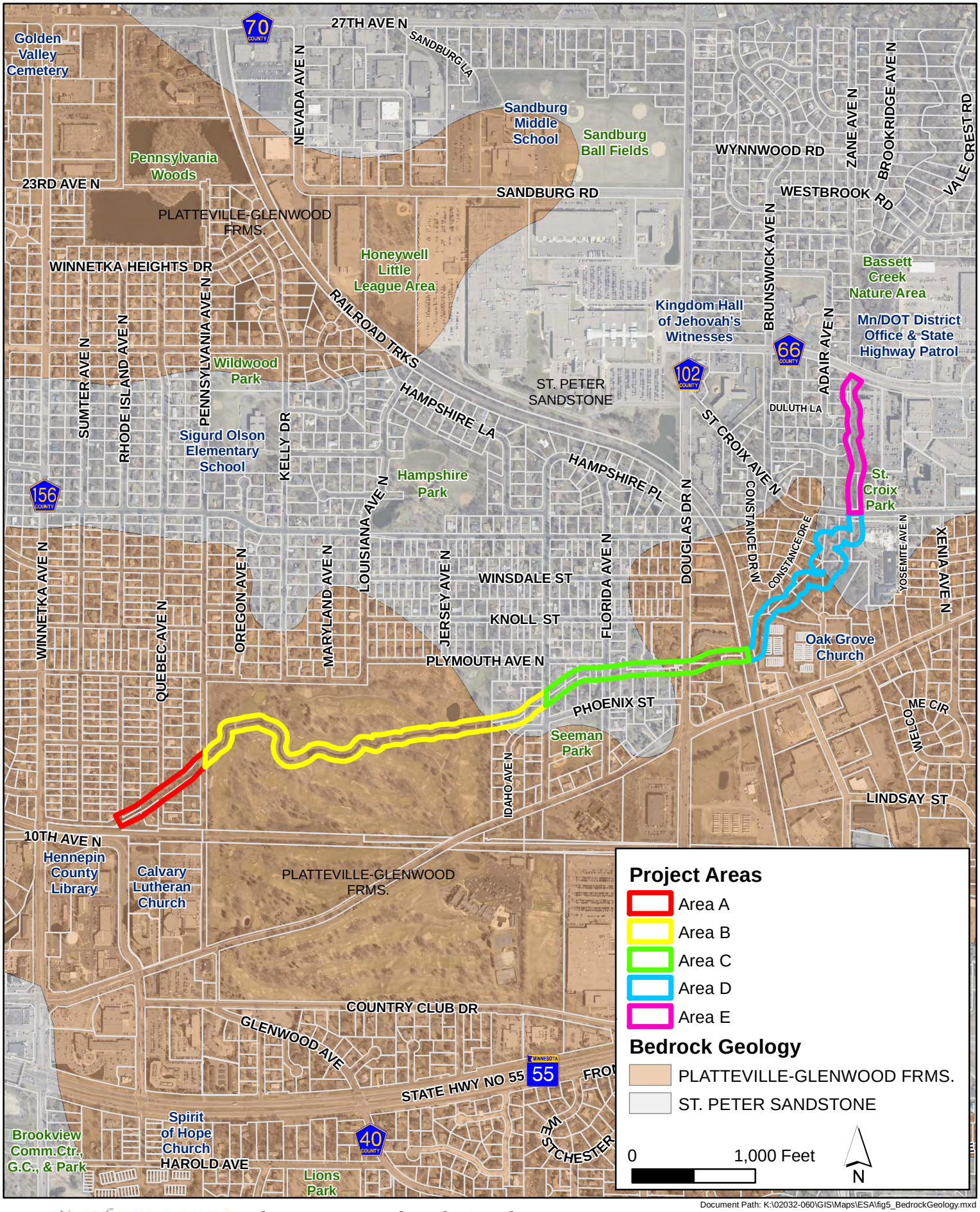

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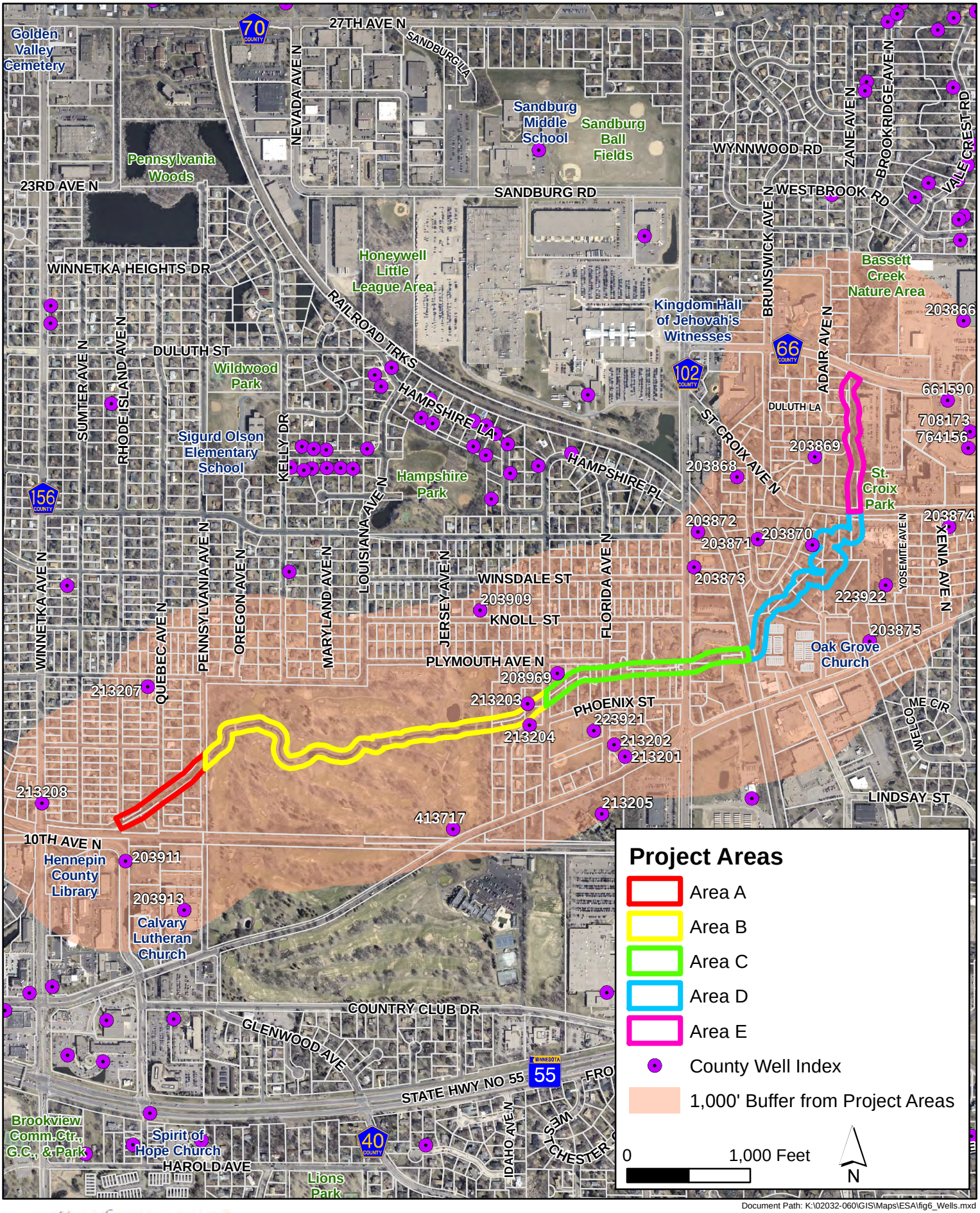
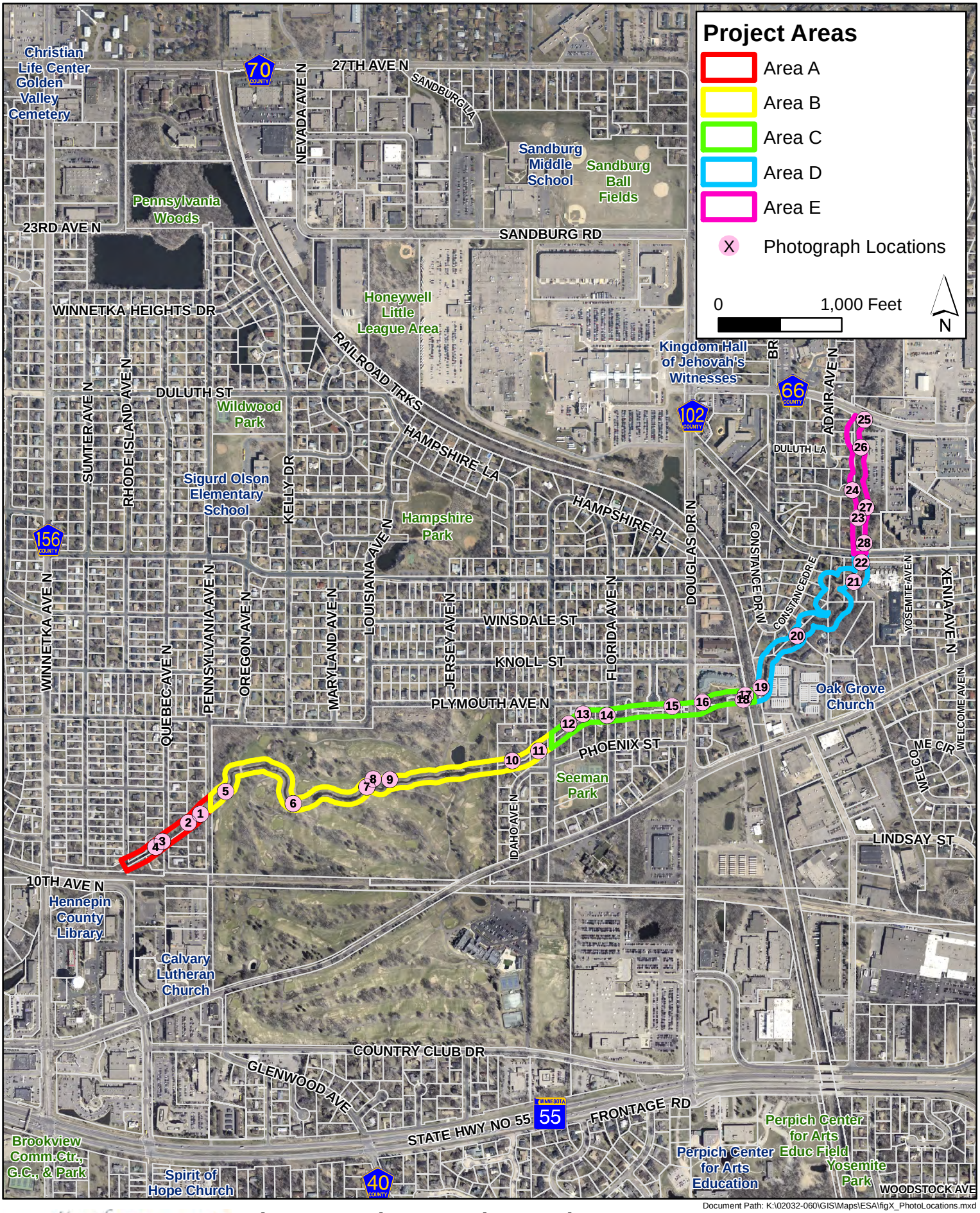
Figure 5: Bedrock Geology
2015 Bassett Creek Main Stem Restoration Project
City of Golden Valley, Minnesota



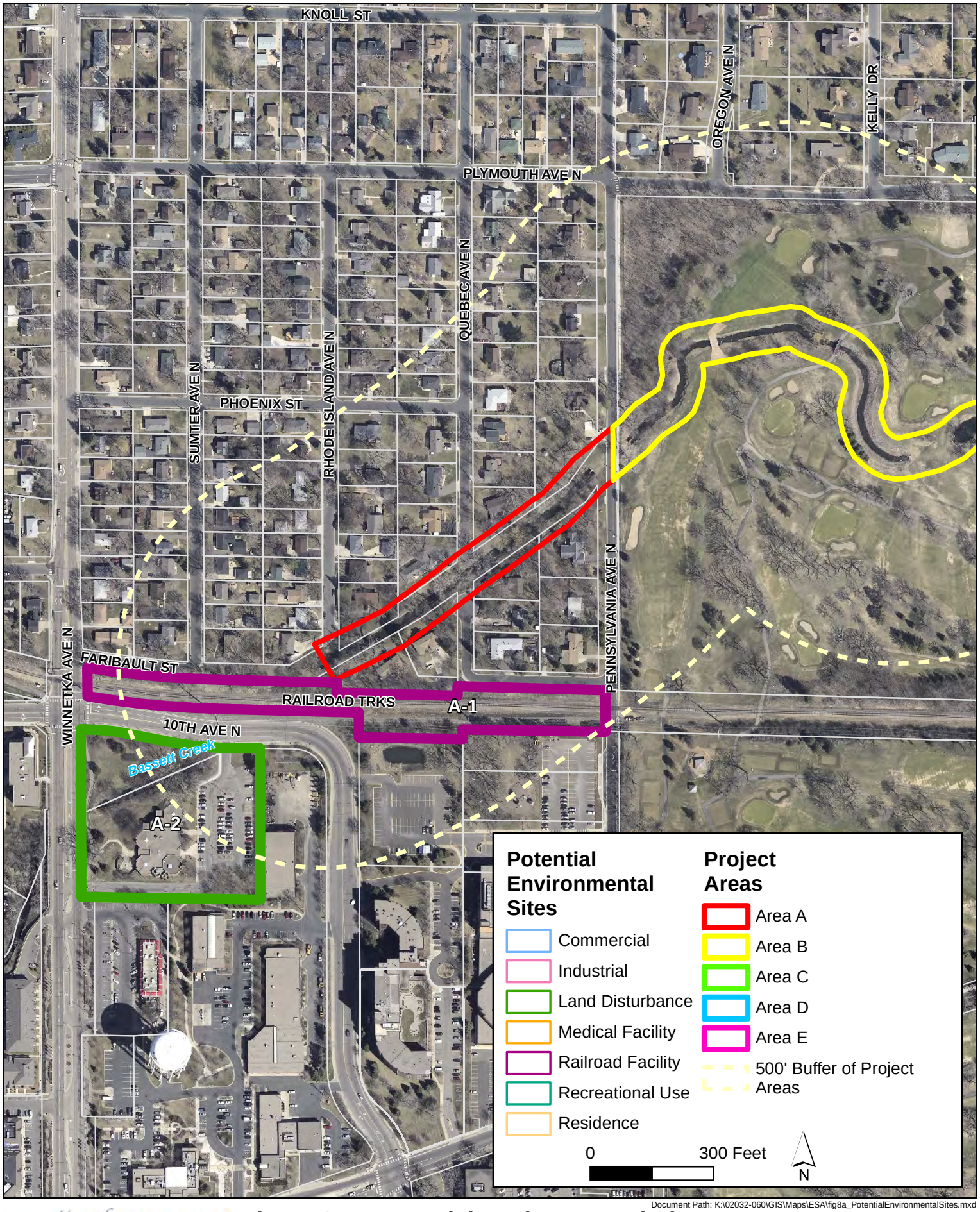
Document Path: K:\02032-060\GIS\Maps\ESA\fig6_Wells.mxd

Figure 6: County Well Index
2015 Bassett Creek Main Stem Restoration Project
City of Golden Valley, Minnesota



Document Path: K:\02032-060\GIS\Maps\ESA\figX_PhotoLocations.mxd

Figure X: Photograph Locations
2015 Bassett Creek Main Stem Restoration Project
City of Golden Valley, Minnesota



Document Path: K:\02032-060\GIS\Maps\ESA\fig8a_PotentialEnvironmentalSites.mxd

Figure 8A: Potential Environmental Sites
2015 Bassett Creek Main Stem Restoration Project
City of Golden Valley, Minnesota

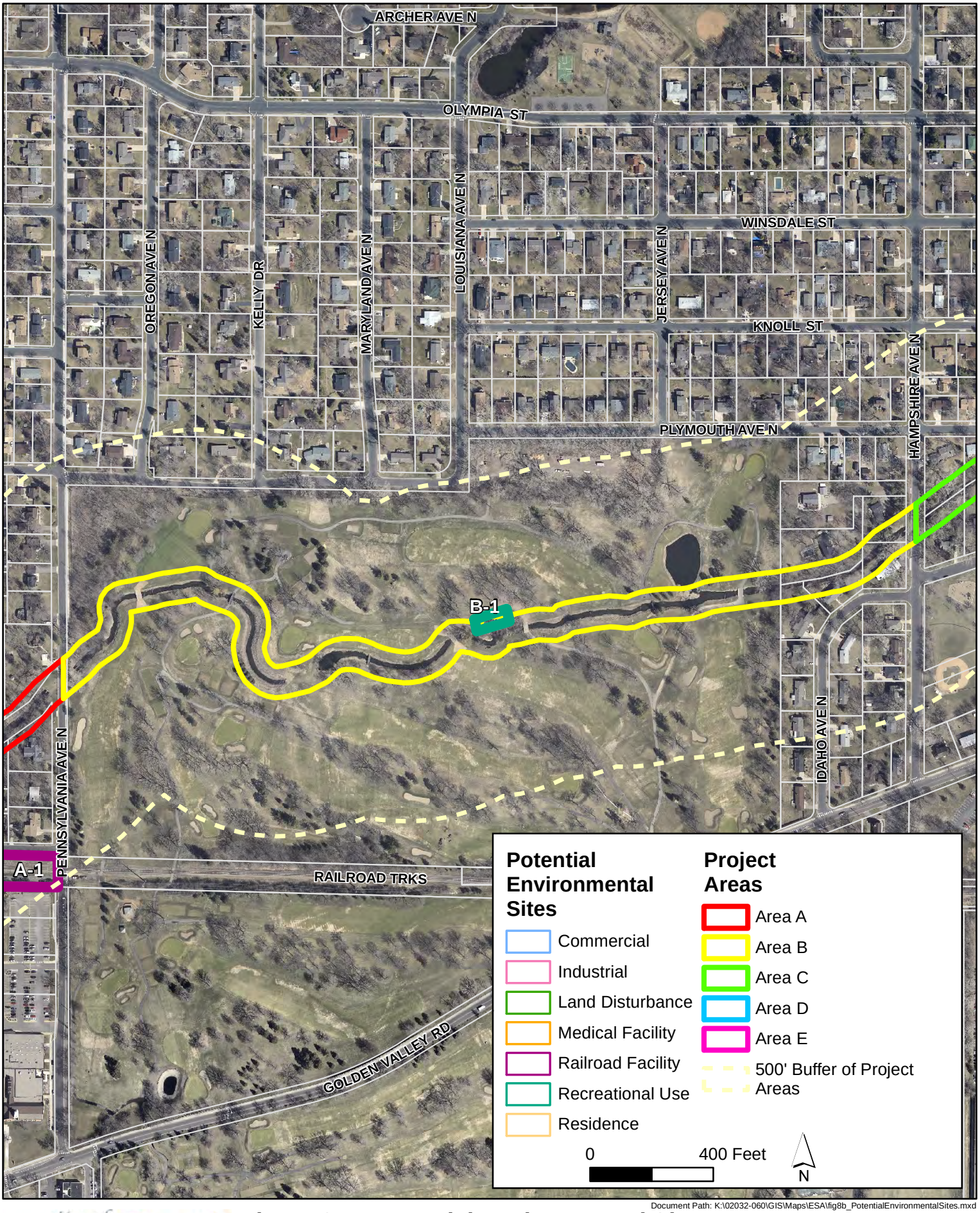


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Figure 8B: Potential Environmental Sites
2015 Bassett Creek Main Stem Restoration Project
City of Golden Valley, Minnesota

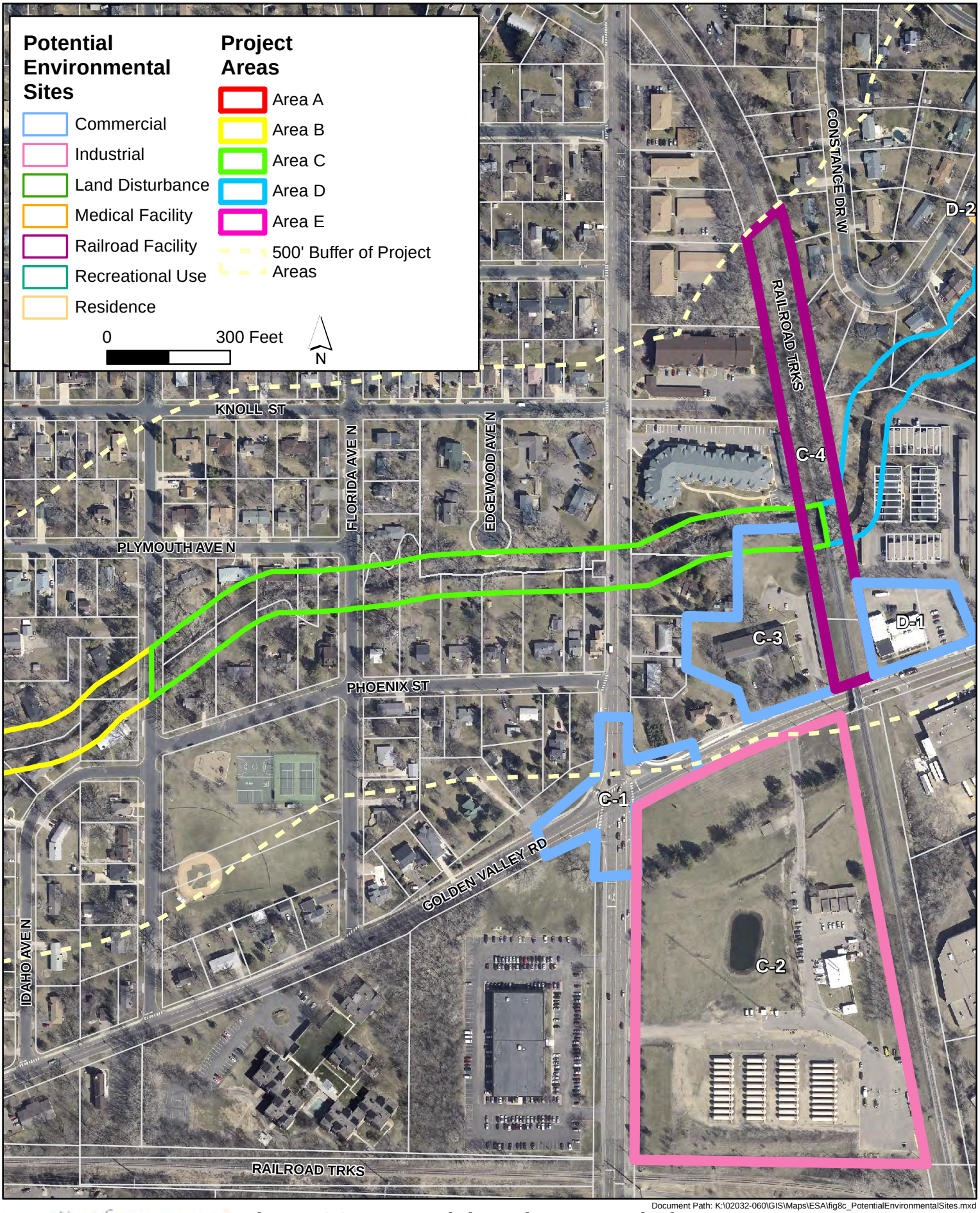

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Figure 8C: Potential Environmental Sites
2015 Bassett Creek Main Stem Restoration Project
City of Golden Valley, Minnesota

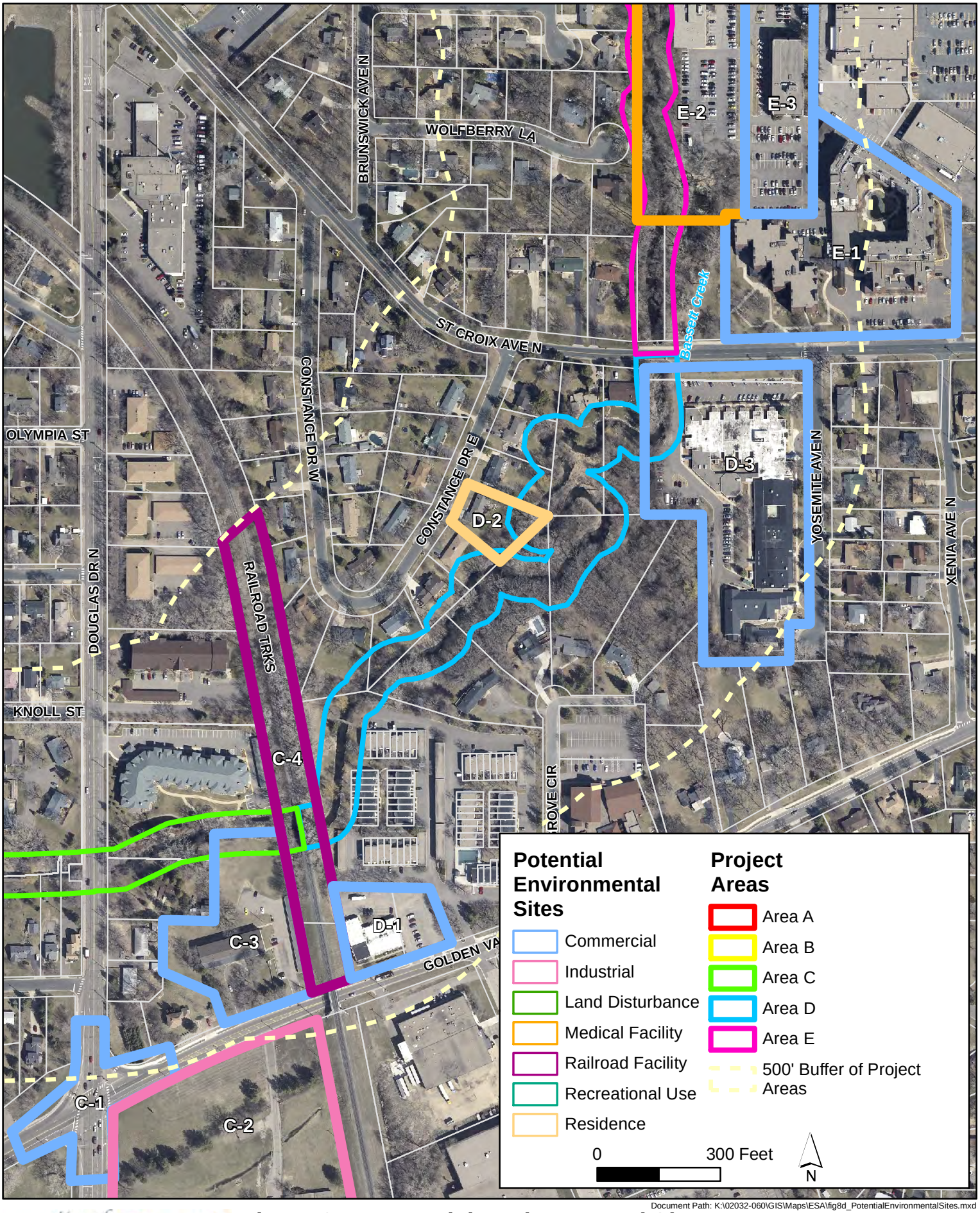

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Figure 8D: Potential Environmental Sites
2015 Bassett Creek Main Stem Restoration Project
City of Golden Valley, Minnesota

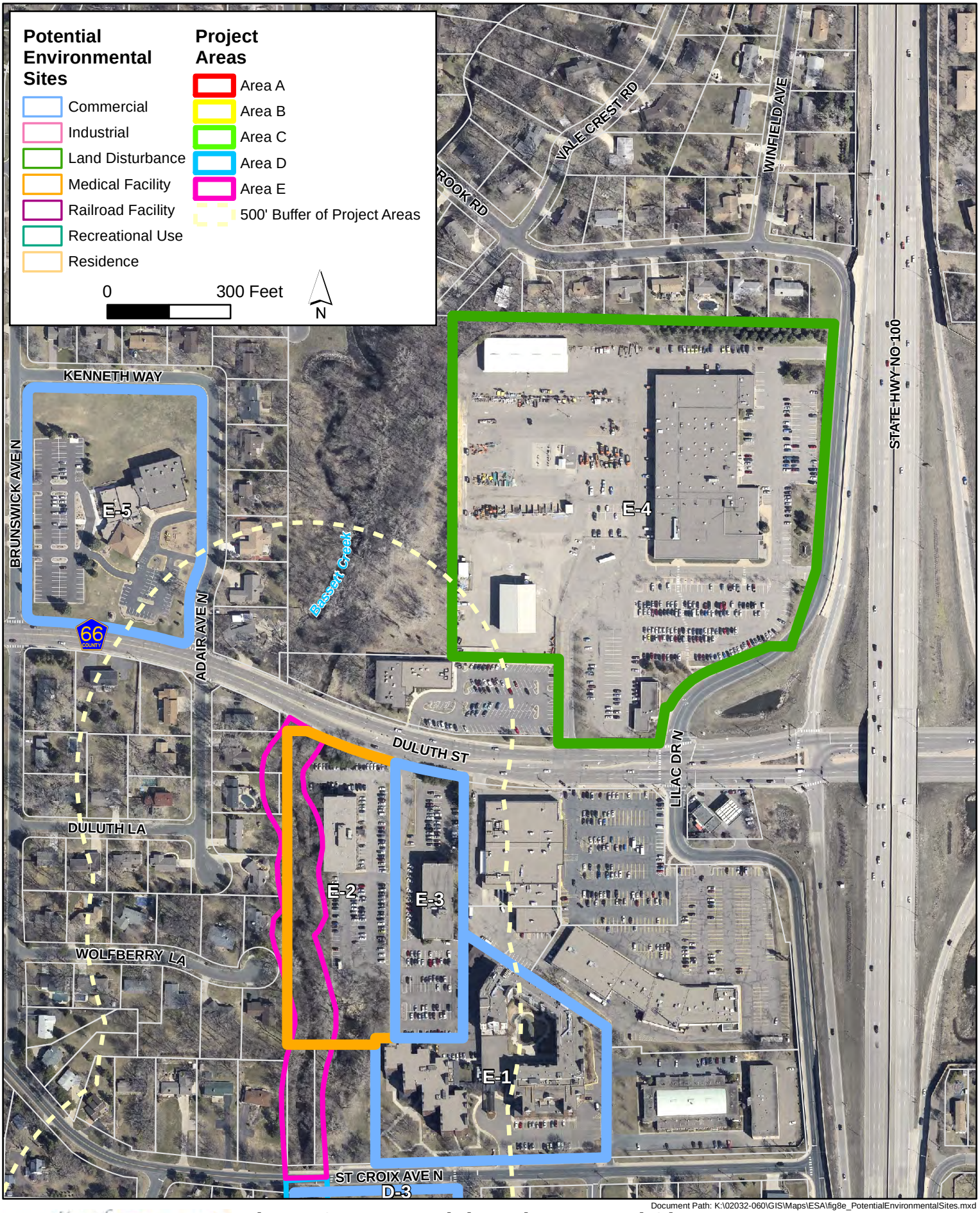

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Figure 8E: Potential Environmental Sites
2015 Bassett Creek Main Stem Restoration Project
City of Golden Valley, Minnesota

APPENDIX A

Survey Questionnaire (User): Phase 1 Environmental Site Assessment

Return by email to: rspencer@wsbeng.com *OR* by Fax to: 763-231-4851

WSB has been retained to conduct a Phase I Environmental Site Assessment (ESA) of the following property. The ESA will involve site observations, interviews, and a review of the available documentation. To ensure the success of the ESA, and in accordance with the Scope of Work for this assessment, ***we request that you complete this questionnaire and return it to WSB within one business day of receipt.***

Completed By (Name): Jeff Oliver
Company: City of Golden Valley
Completion Date: 11/20/13
Length of association with subject site: 20 yrs
Phone: 763-593-8034
E-mail: joliver@goldenvalleymn.gov
Site Name: Bassett Creek Restoration Project
Site City: Golden Valley
Site Address: 10th Ave N - Duluth Street
Site County: Hennepin
Site Address 2:
State: MN
Zip: NA

Instructions: Please answer all questions to the best of your knowledge and in good faith. Please include comments if necessary to provide additional details for your responses. Note: U/NR indicates "Unknown" or "No Response" and "N/A" indicates not applicable.

	Question	RESPONSE			Comment
		Y	N	U/NR	
1	Are you aware of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property?		X		
2	Are you aware of any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the property?		X		
3	Are you aware of any notices from any governmental entity regarding any possible violations of environmental law or possible liability relating to hazardous substances or petroleum products?		X		
4	Do you have any specialized knowledge or experience that is material to recognized environmental conditions in connection with the property?		X		
5	Do you have any actual knowledge of environmental liens or activity and use limitations (AULs) such as engineering controls or institutional controls encumbering the property?		X		
6	Do you have any commonly known or reasonably ascertainable information within the local community about the property that is material to recognized environmental conditions in connection with the property?		X		
7	If the transaction involves the purchase of a parcel of real estate, are you aware of a reduction of the value to the property due to contamination issues?		X		N/A

If you have access to any of the following helpful documents, **please indicate them below** and then send them to WSB via standard mail or e-mail along with this questionnaire. Mailing address: 701 Xenia Avenue South, Suite 300, Minneapolis, MN 55416.

- ☐ Environmental site assessment reports (i.e. Phase I, Phase II, tank testing results, radon, lead paint, or asbestos testing, etc.)
- ☐ Environmental compliance audit reports: risk assessments; and recorded Activity and Use Limitations (AULs)
- ☐ Environmental permits (i.e. solid waste disposal, hazardous waste disposal, wastewater, NPDES, underground injection, etc.)
- ☐ Registrations for underground storage tanks (USTs) and aboveground storage tanks (ASTs)
- ☐ Material safety data sheets and Community right-to-know plan
- ☐ Safety plans; preparedness and prevention plans; spill prevention, countermeasure, and control plans, etc.
- ☐ Reports regarding hydrogeological conditions on the property and surrounding area; and geotechnical studies
- ☐ Notices/correspondence from any agency relating to past/current violations of environmental laws, or liens encumbering the property
- ☐ Hazardous waste generator notices or reports
- ☐ **Other:** _____

APPENDIX B

Bassett Creek Main Stem
Minneapolis, MN 55427

Inquiry Number: 3792338.1s
November 21, 2013

EDR DataMap™ Corridor Study

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
Toll Free: 800.352.0050
www.edrnet.com

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

EXECUTIVE SUMMARY

TARGET PROPERTY INFORMATION

ADDRESS

MINNEAPOLIS, MN 55427
MINNEAPOLIS, MN 55427

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records within the requested search area for the following databases:

FEDERAL RECORDS

NPL	National Priority List
Proposed NPL	Proposed National Priority List Sites
Delisted NPL	National Priority List Deletions
NPL LIENS	Federal Superfund Liens
CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Information System
CERC-NFRAP	CERCLIS No Further Remedial Action Planned
LIENS 2	CERCLA Lien Information
CORRACTS	Corrective Action Report
RCRA-TSDF	RCRA - Treatment, Storage and Disposal
RCRA-LQG	RCRA - Large Quantity Generators
RCRA-SQG	RCRA - Small Quantity Generators
US ENG CONTROLS	Engineering Controls Sites List
US INST CONTROL	Sites with Institutional Controls
ERNS	Emergency Response Notification System
DOT OPS	Incident and Accident Data
US CDL	Clandestine Drug Labs
US BROWNFIELDS	A Listing of Brownfields Sites
DOD	Department of Defense Sites
FUDS	Formerly Used Defense Sites
LUCIS	Land Use Control Information System
CONSENT	Superfund (CERCLA) Consent Decrees
ROD	Records Of Decision
UMTRA	Uranium Mill Tailings Sites
DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations
ODI	Open Dump Inventory
US MINES	Mines Master Index File
TRIS	Toxic Chemical Release Inventory System
TSCA	Toxic Substances Control Act
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
SSTS	Section 7 Tracking Systems
PADS	PCB Activity Database System
RADINFO	Radiation Information Database
RAATS	RCRA Administrative Action Tracking System

EXECUTIVE SUMMARY

RMP	Risk Management Plans
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
US HIST CDL	National Clandestine Laboratory Register
PCB TRANSFORMER	PCB Transformer Registration Database
FEDERAL FACILITY	Federal Facility Site Information listing
US FIN ASSUR	Financial Assurance Information
EPA WATCH LIST	EPA WATCH LIST
PRP	Potentially Responsible Parties
2020 COR ACTION	2020 Corrective Action Program List
COAL ASH DOE	Steam-Electric Plant Operation Data
FEMA UST	Underground Storage Tank Listing
LEAD SMELTERS	Lead Smelter Sites
US AIRS	Aerometric Information Retrieval System Facility Subsystem

STATE AND LOCAL RECORDS

MN SHWS	Superfund Site Information Listing
MN PLP	Permanent List of Priorities
MN DEL PLP	Delisted Permanent List of Priorities
MN SWF/LF	Permitted Solid Waste Disposal Facilities
MN LCP	Closed Landfills Priority List
MN SWRCY	Recycling Facilities
MN LIENS	Environmental Liens
MN AST	Aboveground Storage Tanks
MN BULK	Bulk Facilities Database
MN MANIFEST	Hazardous Waste Manifest Data
MN AGSPILLS	Department of Agriculture Spills
MN INST CONTROL	Site Remediation Section Database
MN DRYCLEANERS	Registered Drycleaning Facilities
MN BROWNFIELDS	Petroleum Brownfields Program Sites
MN CDL	Clandestine Drug Labs
MN ENF	Generators Associated with Enforcement Logs
MN HWS Permit	Active TSD Facilities
MN MDA LIS	Licensing Information System Database Listing
MN COAL ASH	Coal Ash Disposal Site Listing
MN UNPERM LF	Unpermitted Facilities
MN AGVIC	Agricultural Voluntary Investigation & Cleanup Listing

TRIBAL RECORDS

INDIAN RESERV	Indian Reservations
INDIAN ODI	Report on the Status of Open Dumps on Indian Lands
INDIAN LUST	Leaking Underground Storage Tanks on Indian Land
INDIAN UST	Underground Storage Tanks on Indian Land
INDIAN VCP	Voluntary Cleanup Priority Listing

EDR PROPRIETARY RECORDS

EDR MGP	EDR Proprietary Manufactured Gas Plants
EDR US Hist Auto Stat	EDR Exclusive Historic Gas Stations
EDR US Hist Cleaners	EDR Exclusive Historic Dry Cleaners

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

EXECUTIVE SUMMARY

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

FEDERAL RECORDS

RCRA-CESQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-CESQG list, as provided by EDR, and dated 07/11/2013 has revealed that there are 13 RCRA-CESQG sites within the searched area.

Site	Address	Map ID	Page
CENTENNIAL LAKES DENTAL NORTH	5851 DULUTH ST STE 218	3	13
WEST METRO OPHTHALMOLOGY	5851 DULUTH ST STE 215	3	14
MIDWEST FOOT & ANKLE SPECIALIS	***5851 DULUTH ST STE 101***	***3***	***16***
GIEBENHAIN DENTAL ASSOCIATES P	***5851 DULUTH ST STE 303***	***3***	***18***
DANIEL E SMOLEROFF DDS	5851 DULUTH ST STE 315	3	20
KNUDSON DOUGLAS J DDS	***5851 DULUTH ST STE 313***	***3***	***21***
IMPLANT PERIODONTICS LTD	***5851 DULUTH ST STE 313B***	***3***	***23***
GERALD N WINTHEISER DDS	***5851 DULUTH ST STE 211***	***3***	***24***
BASSETT CREEK DENTAL	***5851 DULUTH ST STE 100***	***3***	***26***
EAR NOSE & THROAT SPECIALTY CA	5851 DULUTH ST STE 204	3	30
INSPEC INC.	***5801 DULUTH STREET***	***4***	***34***
COLONIAL ACRES HOME INC	***5825 SAINT CROIX AVE N***	***5***	***39***
CENTERPOINT ENERGY - GOLDEN VA	***6161 GOLDEN VALLEY RD***	***13***	***60***

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 07/11/2013 has revealed that there are 4 RCRA NonGen / NLR sites within the searched area.

Site	Address	Map ID	Page
GOLDEN VALLEY DENTAL XRAY	***5851 DULUTH ST STE 314***	***3***	***11***
KUSHINO NORMAN T DDS	***5851 DULUTH ST STE 301B***	***3***	***28***
DANIEL G RAETHER DDS	***5851 DULUTH ST STE 304***	***3***	***32***
BRINK PAUL ASSOCIATES INC	***5801 DULUTH ST***	***4***	***36***

EXECUTIVE SUMMARY

HMIRS: The Hazardous Materials Incident Report System contains hazardous material spill incidents reported to the Department of Transportation. The source of this database is the U.S. EPA.

A review of the HMIRS list, as provided by EDR, and dated 12/31/2012 has revealed that there are 3 HMIRS sites within the searched area.

Site	Address	Map ID	Page
Not reported	1100 HAMPSHIRE AVENUE S	16	85
Not reported	1100 HAMPSHIRE AVENUE S	16	85
Not reported	1111 HAMPSHIRE AVENUE	16	86

ICIS: The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

A review of the ICIS list, as provided by EDR, and dated 07/20/2011 has revealed that there is 1 ICIS site within the searched area.

Site	Address	Map ID	Page
E & V CONSULTANTS AND CONST MA	5801 DULUTH STREET, #3	4	38

MLTS: The Material Licensing Tracking System is maintained by the Nuclear Regulatory Commission and contains a list fo approximately 8,100 sites which possess or use radioactive materials and are subject to NRC licensing requirements.

A review of the MLTS list, as provided by EDR, and dated 07/22/2013 has revealed that there is 1 MLTS site within the searched area.

Site	Address	Map ID	Page
INSPEC INC.	***5801 DULUTH STREET***	***4***	***34***

FINDS: The Facility Index System contains both facility information and "pointers" to other sources of information that contain more detail. These include: RCRIS; Permit Compliance System (PCS); Aerometric Information Retrieval System (AIRS); FATES (FIFRA [Federal Insecticide Fungicide Rodenticide Act] and TSCA Enforcement System, FTTS [FIFRA/TSCA Tracking System]; CERCLIS; DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes); Federal Underground Injection Control (FURS); Federal Reporting Data System (FRDS); Surface Impoundments (SIA); TSCA Chemicals in Commerce Information System (CICS); PADS; RCRA-J (medical waste transporters/disposers); TRIS; and TSCA. The source of this database is the U.S. EPA/NTIS.

A review of the FINDS list, as provided by EDR, and dated 03/08/2013 has revealed that there are 19 FINDS sites within the searched area.

Site	Address	Map ID	Page
BYERLY'S GOLDEN VALLEY	5725 DULUTH ST	2	9
CENTENNIAL LAKES DENTAL NORTH	5851 DULUTH ST STE 218	3	10
GOLDEN VALLEY DENTAL XRAY	***5851 DULUTH ST STE 314***	***3***	***11***
WEST METRO OPHTHALMOLOGY	5851 DULUTH ST STE 215	3	15
EAR NOSE & THROAT SPECIALTY CA	5851 DULUTH ST STE 204	3	15
MIDWEST FOOT & ANKLE SPECIALIS	***5851 DULUTH ST STE 101***	***3***	***16***

EXECUTIVE SUMMARY

Site	Address	Map ID	Page
DANIEL E SMOLEROFF DDS	5851 DULUTH ST STE 315	3	18
GIEBENHAIN DENTAL ASSOCIATES P	***5851 DULUTH ST STE 303***	***3***	***18***
KNUDSON DOUGLAS J DDS	***5851 DULUTH ST STE 313***	***3***	***21***
IMPLANT PERIODONTICS LTD	***5851 DULUTH ST STE 313B***	***3***	***23***
GERALD N WINTHEISER DDS	***5851 DULUTH ST STE 211***	***3***	***24***
BASSETT CREEK DENTAL	***5851 DULUTH ST STE 100***	***3***	***26***
KUSHINO NORMAN T DDS	***5851 DULUTH ST STE 301B***	***3***	***28***
DANIEL G RAETHER DDS	***5851 DULUTH ST STE 304***	***3***	***32***
E & V CONSULTANTS AND CONST MA	5801 DULUTH STREET, #3	4	33
INSPEC INC.	***5801 DULUTH STREET***	***4***	***34***
BRINK PAUL ASSOCIATES INC	***5801 DULUTH ST***	***4***	***36***
COLONIAL ACRES HOME INC	***5825 SAINT CROIX AVE N***	***5***	***39***
CENTERPOINT ENERGY - GOLDEN VA	***6161 GOLDEN VALLEY RD***	***13***	***60***

STATE AND LOCAL RECORDS

MN SRS: The database contains site information for sites monitored by the Site Remediation Section.

A review of the MN SRS list, as provided by EDR, and dated 08/29/2013 has revealed that there is 1 MN SRS site within the searched area.

Site	Address	Map ID	Page
CENTERPOINT ENERGY - GOLDEN VA	***6161 GOLDEN VALLEY RD***	***13***	***64***

MN LS: The List of Sites includes: Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS), No Further Remedial Action Planned (NFRAP), National Priorities List (NPL), Permanent List of Priorities (PLP), Sites delisted from the Permanent List of Priorities (DPLP), Hazardous Waste Permit Unit Project Facilities (HW PERM), List of Permitted Solid Waste Facilities (SW PERM), 1980 Metropolitan Area Waste Disposal Site Inventory,1980 Statewide Outstate Dump Inventory (ODI), Voluntary and Investigation Program (VIC), and Closed Landfill Sites Undergoing Cleanup (LCP). The List of Sites comes from Minnesota Pollution Control

A review of the MN LS list, as provided by EDR, and dated 04/22/2009 has revealed that there is 1 MN LS site within the searched area.

Site	Address	Map ID	Page
CENTERPOINT ENERGY - GOLDEN VA	***6161 GOLDEN VALLEY RD***	***13***	***64***

MN LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Minnesota Pollution Control Agency's Leak Sites list.

A review of the MN LUST list, as provided by EDR, and dated 10/01/2013 has revealed that there are 4

EXECUTIVE SUMMARY

MN LUST sites within the searched area.

Site	Address	Map ID	Page
KING OF GRACE LUTHERAN CHURCH	***6000 DULUTH ST***	***1***	***4***
Complete Site Closed Date: 12/27/1989 00:00:00			
COVENANT MANOR	***5800 SAINT CROIX AVE***	***5***	***41***
Complete Site Closed Date: 03/24/1995 00:00:00			
CONRAD MAUERSBERGER PROPERTY	***1620 E CONSTANCE DR***	***7***	***46***
Complete Site Closed Date: 03/15/1995 00:00:00			
BELLBOY CORPORATION	***6005 GOLDEN VALLEY RD***	***10***	***49***
Complete Site Closed Date: 10/16/1992 00:00:00			

MN UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Minnesota Pollution Control's Underground Storage Tank File.

A review of the MN UST list, as provided by EDR, and dated 10/01/2013 has revealed that there are 3 MN UST sites within the searched area.

Site	Address	Map ID	Page
KING OF GRACE LUTHERAN CHURCH	***6000 DULUTH ST***	***1***	***4***
COVENANT MANOR	***5800 SAINT CROIX AVE***	***5***	***41***
BELLBOY CORPORATION	***6005 GOLDEN VALLEY RD***	***10***	***49***

MN LAST: A listing of leaking aboveground storage tanks.

A review of the MN LAST list, as provided by EDR, and dated 10/01/2013 has revealed that there is 1 MN LAST site within the searched area.

Site	Address	Map ID	Page
VALLEY CREEK OFFICE PARK	***GOLDEN VALLEY RD***	***12***	***56***
Complete Site Closed Date: 05/11/2007 00:00:00			

WI MANIFEST: Hazardous waste manifest information.

A review of the WI MANIFEST list, as provided by EDR, and dated 12/31/2012 has revealed that there is 1 WI MANIFEST site within the searched area.

Site	Address	Map ID	Page
CENTERPOINT ENERGY - GOLDEN VA	***6161 GOLDEN VALLEY RD***	***13***	***60***

EXECUTIVE SUMMARY

MN SPILLS: This is the Minnesota Pollution Coontrol Agency's Spills Log.

A review of the MN SPILLS list, as provided by EDR, and dated 10/01/2013 has revealed that there are 8 MN SPILLS sites within the searched area.

Site	Address	Map ID	Page
KING OF GRACE LUTHERAN CHURCH	***6000 DULUTH ST***	***1***	***4***
COVENANT MANOR	***5800 SAINT CROIX AVE***	***5***	***41***
NA Spill Closure: Response Completed	6014 GOLDEN VALLEY RD	8	48
FURNITURE PLACEMENT SERVICES	6100 GOLDEN VALLEY RD	9	48
DEBOER INC	GOLDEN VALLEY RD AND ZA	10	54
RANDAL POOL AND SPA	6200 GOLDEN VALLEY RD	11	55
VALLEY CREEK OFFICE PARK Spill Closure: Refer To Water Quality	***GOLDEN VALLEY RD***	***12***	***56***
CENTER POINT ENERGY GAS LINE	GOLDEN VALLEY RD AND DO	15	84

MN VIC: This is the Minnesota Pollution Control Agency's Voluntary Investigation and Cleanup Program list.

A review of the MN VIC list, as provided by EDR, and dated 08/29/2013 has revealed that there is 1 MN VIC site within the searched area.

Site	Address	Map ID	Page
CENTERPOINT ENERGY - GOLDEN VA	***6161 GOLDEN VALLEY RD***	***13***	***64***

MN AIRS: A listing of permitted AIRS facilities.

A review of the MN AIRS list, as provided by EDR, and dated 07/02/2013 has revealed that there is 1 MN AIRS site within the searched area.

Site	Address	Map ID	Page
CENTERPOINT ENERGY - GOLDEN VA	***6161 GOLDEN VALLEY RD***	***13***	***64***

MN TIER 2: A listing of facilities which store or manufacture hazardous materials that submit a chemical inventory report.

A review of the MN TIER 2 list, as provided by EDR, and dated 12/31/2012 has revealed that there are 3 MN TIER 2 sites within the searched area.

Site	Address	Map ID	Page
CENTERPOINT ENERGY - GV PROPAN	6161 GOLDEN VALLEY RD	13	59
CENTERPOINT ENERGY - GOLDEN VA	***6161 GOLDEN VALLEY RD***	***13***	***64***
CENTERPOINT ENERGY - GV PROPAN	6161 GOLDEN VALLEY RD	13	78

EXECUTIVE SUMMARY

MN WIMN: Since 2003, the PCA's "What's in My Neighborhood?" database provides information about air quality, hazardous waste, remediation, solid waste, tanks and leaks, and water quality around Minnesota.

A review of the MN WIMN list, as provided by EDR, and dated 10/13/2013 has revealed that there are 25 MN WIMN sites within the searched area.

Site	Address	Map ID	Page
KING OF GRACE LUTHERAN CHURCH	***6000 DULUTH ST***	***1***	***4***
BYERLY'S GOLDEN VALLEY	5725 DULUTH ST	2	9
LOGIS OFFICE ADDITION - CSW	5750 DULUTH ST	2	9
EAR NOSE & THROAT SPECIALTY CA	5851 DULUTH ST STE 204	3	10
CENTENNIAL LAKES DENTAL NORTH	5851 DULUTH ST STE 218	3	10
GOLDEN VALLEY DENTAL XRAY	***5851 DULUTH ST STE 314***	***3***	***11***
DANIEL E SMOLEROFF DDS	5851 DULUTH ST STE 315	3	13
MIDWEST FOOT & ANKLE SPECIALIS	***5851 DULUTH ST STE 101***	***3***	***16***
KNUDSON DOUGLAS J DDS	***5851 DULUTH ST STE 313***	***3***	***21***
IMPLANT PERIODONTICS LTD	***5851 DULUTH ST STE 313B***	***3***	***23***
GERALD N WINTHEISER DDS	***5851 DULUTH ST STE 211***	***3***	***24***
BASSETT CREEK DENTAL	***5851 DULUTH ST STE 100***	***3***	***26***
KUSHINO NORMAN T DDS	***5851 DULUTH ST STE 301B***	***3***	***28***
GIEBENHAIN DENTAL ASSOCIATES P	5851 DULUTH ST STE 103	3	31
DANIEL G RAETHER DDS	***5851 DULUTH ST STE 304***	***3***	***32***
WEST METRO OPHTHALMOLOGY	5851 DULUTH ST STE 215	3	33
INSPEC INC.	***5801 DULUTH STREET***	***4***	***34***
PAUL BRINK ASSOCIATES INC	5801 DULUTH ST STE 300	4	36
COLONIAL ACRES HOME INC	***5825 SAINT CROIX AVE N***	***5***	***39***
COVENANT MANOR	***5800 SAINT CROIX AVE***	***5***	***41***
2012 BASSETT CREEK RESTORATION	ADDRESS UNKNOWN	6	45
CONRAD MAUERSBERGER PROPERTY	***1620 E CONSTANCE DR***	***7***	***46***
BELLBOY CORPORATION	***6005 GOLDEN VALLEY RD***	***10***	***49***
CENTERPOINT ENERGY - GOLDEN VA	***6161 GOLDEN VALLEY RD***	***13***	***64***
VALLEY CREEK OFFICE PARK	GOLDEN VALLEY RD	14	84

EXECUTIVE SUMMARY

Please refer to the end of the findings report for unmapped orphan sites due to poor or inadequate address information.

MAP FINDINGS SUMMARY

Database	Total Plotted
FEDERAL RECORDS	
NPL	0
Proposed NPL	0
Delisted NPL	0
NPL LIENS	0
CERCLIS	0
CERC-NFRAP	0
LIENS 2	0
CORRACTS	0
RCRA-TSDF	0
RCRA-LQG	0
RCRA-SQG	0
RCRA-CESQG	13
RCRA NonGen / NLR	4
US ENG CONTROLS	0
US INST CONTROL	0
ERNS	0
HMIRS	3
DOT OPS	0
US CDL	0
US BROWNFIELDS	0
DOD	0
FUDS	0
LUCIS	0
CONSENT	0
ROD	0
UMTRA	0
DEBRIS REGION 9	0
ODI	0
US MINES	0
TRIS	0
TSCA	0
FTTS	0
HIST FTTS	0
SSTS	0
ICIS	1
PADS	0
MLTS	1
RADINFO	0
FINDS	19
RAATS	0
RMP	0
COAL ASH EPA	0
SCRD DRYCLEANERS	0
US HIST CDL	0
PCB TRANSFORMER	0
FEDERAL FACILITY	0
US FIN ASSUR	0
EPA WATCH LIST	0

Database	Total Plotted
PRP	0
2020 COR ACTION	0
COAL ASH DOE	0
FEMA UST	0
LEAD SMELTERS	0
US AIRS	0

STATE AND LOCAL RECORDS

MN SHWS	0
MN SRS	1
MN PLP	0
MN DEL PLP	0
MN SWF/LF	0
MN LS	1
MN LCP	0
MN SWRCY	0
MN LUST	4
MN UST	3
MN LAST	1
MN LIENS	0
MN AST	0
MN BULK	0
MN MANIFEST	0
WI MANIFEST	1
MN SPILLS	8
MN AGSPILLS	0
MN INST CONTROL	0
MN VIC	1
MN DRYCLEANERS	0
MN BROWNFIELDS	0
MN CDL	0
MN ENF	0
MN HWS Permit	0
MN AIRS	1
MN TIER 2	3
MN MDA LIS	0
MN COAL ASH	0
MN UNPERM LF	0
MN AGVIC	0
MN WIMN	25

TRIBAL RECORDS

INDIAN RESERV	0
INDIAN ODI	0
INDIAN LUST	0
INDIAN UST	0
INDIAN VCP	0

EDR PROPRIETARY RECORDS

EDR MGP	0

Database	Total Plotted
EDR US Hist Auto Stat	0
EDR US Hist Cleaners	0

NOTES:

Sites may be listed in more than one database

Map ID / Direction / Distance / Distance (ft.) | Site | Database(s) | EDR ID Number / EPA ID Number

1 KING OF GRACE LUTHERAN CHURCH — MN LUST, MN UST, MN SPILLS, MN WIMN — U000885241 / N/A
6000 DULUTH ST
GOLDEN VALLEY, MN 55422

LUST:

Leak ID:	2047
MNPCA ID:	214872
Site ID:	215482
Source:	CORE
Interest Type:	Leak Site
Interest Phone:	NO CORE PI PH.
Interest Start Date:	08/23/1994 12:17:33
Interest End Date:	Not reported
Release Discovered Date:	08/30/1989
Leak Reported Date:	12/01/1989
Leak Site:	Leak Site - Tank and Petroleum Contamination
File Archive Box:	39
File Archive Lot:	94/372
Soil Digout Date:	08/30/1989
Cubic Yards Excavated:	4
Conditional Closure Date:	Not reported
Complete Site Closure Date:	**12/27/1989 00:00:00**
Contaminated Soils Remaining:	No
Enforcement Action Begin Date:	Not reported
Lust Trust Eligible:	Yes
Offsite Contamination:	Unknown
Reimbursement Awarded:	No
Std Letter Response Date:	Not reported
Surface Water Impact:	Unknown
Utility Project Flag:	No
TMSP Added:	12/04/1999 14:03:44
TMSP Last Update:	07/12/2010 14:36:19
Staff Id Last Update:	JDIETZ
Release From AST:	No
Release From UST:	No
Tank Registration Status Code:	F
VPIC Application Date:	Not reported
VPIC Acres:	Not reported
Addr Id:	239685
Township Name:	Fort Snelling
Active Flag:	No
Country Code:	USA
Foreign State:	Not reported
Foreign Zone:	Not reported
State County Code:	MN
Vapor Intrusion Checked Flag:	Not reported
Soil Gas Data Collected Flag:	Not reported
Soil Gas Action Level Flag:	Not reported
Sub Slab Sample Collected Flag:	Not reported
Indoor Air Collected Flag:	Not reported
Vapor Intrusion Action Flag:	Not reported
Vapor Intrusion Comments:	Not reported
Soil Gas Data Comments:	Not reported
Comments:	Not reported

LEAK CLEANUP ACTIONS:

MN PCA ID:	Not reported
Leak Action Approval Date:	Not reported
Leak Action Begin Date:	Not reported

Map ID / Direction / Distance / Distance (ft.) | Site | Database(s) | EDR ID Number / EPA ID Number

KING OF GRACE LUTHERAN CHURCH (Continued) — U000885241

Leak Action End Date:	Not reported
TMSP Added:	Not reported
TMSP Last Update:	Not reported
Staff Id Last Update:	Not reported

LEAK GW INFO:

MN PCA ID:	214872
Dw Supply Contam:	Not reported
Free Product Observed:	No
Free Product Thickness:	Not reported
Ground Water Contam:	No
GW Cleanup Goal:	0
Gw Exceeds Cleanup Goal:	Not reported
Cleanup Goal Achieved:	Not reported
Water Supply Exceeds Ral:	Not reported
Well Type Code:	Not reported
Impacted Aquifer Code:	Not reported
TMSP Added:	12/04/1999 14:07:28
TMSP Last Update:	11/04/2003 12:57:06
Staff Id Last Update:	RSUCHAN
Mtbe Present Now:	Not reported
Mtbe Present Historically:	Not reported
Mtbe High Ug Per Liter Char:	Not reported
Mtbe High Ug Per Liter Numb:	Not reported
Mtbe High Level Date:	Not reported
Free Product At Close:	Not reported
Staff Id Ass:	Not reported
PWS Well:	Not reported
Prot Flag:	Not reported
Sens Flag:	Not reported

LEAK PRODUCT RELEASED:

MN PCA ID:	214872
Prod Released Sequence Id:	320482
Leak Product:	Fuel Oil 1 and 2
Tmsp Added:	12/04/1999 14:04:32
Tmsp Last_updt:	05/04/2002 09:06:15
Staff Id Last Updt:	TANKS

UST:

TANK:

MPCA Tank Number:	001
Tank Registration Date:	05/19/1986 00:00:00
Tank Storage Capacity:	2000
Tank Dual Use:	N
Tank Status:	**Removed**
Tank Stored Product:	Fuel Oil
Tank Construction Material:	Bare/Paint/Asph Coat Steel
Tank Cathodic Protection:	None
Piping Cathodic Protection:	None
Piping Material:	Copper
Second Contain Tank:	Copper
Second Contain Pipe:	Not reported
Tank Dispenser:	Suction
Above/ Under Ground:	Under Ground
AST Base Material:	Not reported
Piping Material Description:	Not reported

KING OF GRACE LUTHERAN CHURCH (Continued) **U000885241**

Unregulated Tank Registration Date: Not reported
Compartmental Tank Flag: Not reported
Heating Product Flag: Yes
Haz Waste Generator Id: Not reported
Product Replaced Date: Not reported
Sludge Disposal Facility: Not reported
Comments: Not reported
Date Added: 10/10/1999 10:56:31
Date Last Updated: 01/07/2013 10:37:12
Staff Id Who Did The Last Update: RSUCHAN
In Compliance: Yes
Serial Number: Not reported

TANK ACTION:
MPCA Tank Number: 001
Above Or Underground: Under Ground
Tank Action ID: 247471
Contractor Number: 267
Supervisor Number: Not reported
Tank Action: Remove Tank
Action Date: 08/30/1989 00:00:00
Action Date Unknown: Not reported
Corrosion Expert Name: Not reported
Lab Flag: N
Date Added: 05/05/2000 08:31:49
Date Last Updated: 05/04/2002 07:47:22
Staff Id Who Did The Last Update: TANKS

MPCA Tank Number: 001
Above Or Underground: Under Ground
Tank Action ID: 283804
Contractor Number: Not reported
Supervisor Number: Not reported
Tank Action: Install Tank
Action Date: 01/01/1969 00:00:00
Action Date Unknown: Not reported
Corrosion Expert Name: Not reported
Lab Flag: Not reported
Date Added: 05/05/2000 08:31:49
Date Last Updated: 05/04/2002 07:47:22
Staff Id Who Did The Last Update: TANKS

TANK COMPARTMENT:
MPCA Tank Number: 001
Above Or Underground: Under Ground
Compartment Number: 1
Tank Stored Product Code: 13
Tank Stored Product Desc: FUEL OIL
Compartment Cap: 2000
Heating: Unknown
Other Desc: Not reported
Date Added: 10/10/1999 10:58:00
Date Last Updated: 05/04/2002 07:47:22
Staff Id Who Did The Last Update: TANKS

KING OF GRACE LUTHERAN CHURCH (Continued) **U000885241**

TABSITE:
Program Interest Id: 191694
Above Or Underground: Under Ground
Facility Code: 43
Indian Reservation: No
UST Registration Date: 05/19/1986 00:00:00
AST Registration Date: Not reported
Date Added: 07/23/1992 19:11:05
Date Last Updated: 05/23/2003 09:21:00
Staff Id Who Did The Last Update: SYS
Max Monthly Gallons: Not reported
Vapor Recovery Installed: Unknown
Vapor Notify Required: Unknown

LATLONG:
Program Id: 191694
Latlong ID: 168472
Latitude Degrees: 44
Latitude Minutes: 59
Latitude Seconds: 59.7
Longitude Degrees: -93
Longitude Minutes: 21
Longitude Seconds: 21.01
Collection Date: 03/29/2010 17:52:56
Latlong Description: Not reported
TMSP Added: 03/29/2010 18:51:13
Date Last Updated: 03/29/2010 18:51:13
Staff Id Last Updated: MAPT_NC
Coord Source Type: Not reported
Org Name Source: Not reported

MN SPILL:
Program Id: 171286
Spill Date: 08/30/1989
Site ID: 0
Public Safety Spill ID: Not reported
Interest Type: Spill site
Interest Phone: Not reported
Preferred Id: 12845
Interest Start Date: 03/21/1996
Interest End Date: Not reported
Active: Not reported
Tmsp Added: 03/21/1996
Tmsp Last Updt: 04/11/2007 08:22:51
Staff Id Last Updt: RSUCHAN
Foreign Zone: Not reported
Spill Closure Desc: Not reported
Sp Rep Code: Not reported
Report Taken By: 3236
MPCA Project Manager: 3236
MPCA Involvement: Not reported
Spill Site Closure Date: 01/01/1996
Spill Rep Desc: ERIC FORGAED
Spill Reported Date: 12/01/1989
Init Cause Code: Spill
Init Cause Desc: OVERFILL

KING OF GRACE LUTHERAN CHURCH (Continued) **U000885241**

Initial Source Code: Not reported
Priority: 4
Rep Phone: Not reported
Rep Name: Not reported
Rpt Taken By Duty Officer: Not reported
Duty Officer Report No: Not reported
Comments: Not reported

Product:
Program ID: 171286
Spill Incident Accuracy Id: Not reported
Spill Product Code: Petroleum, Unspecified
Spill Qty Units Code: Unknown
Spill Incident Accuracy Code: Unknown
Spill Released Qty: 0

MN SPILL:
Program Id: 171255
Spill Date: 08/30/1989
Site ID: 0
Public Safety Spill ID: Not reported
Interest Type: Spill site
Interest Phone: Not reported
Preferred Id: 12811
Interest Start Date: 03/21/1996
Interest End Date: Not reported
Active: Not reported
Tmsp Added: 03/21/1996
Tmsp Last Updt: 04/11/2007 08:22:51
Staff Id Last Updt: RSUCHAN
Foreign Zone: Not reported
Spill Closure Desc: Not reported
Sp Rep Code: Not reported
Report Taken By: 3258
MPCA Project Manager: 4143
MPCA Involvement: Not reported
Spill Site Closure Date: 01/01/1996
Spill Rep Desc: LEONARD HEALY
Spill Reported Date: 12/01/1989
Init Cause Code: Not reported
Init Cause Desc: UST
Initial Source Code: Not reported
Priority: 4
Rep Phone: Not reported
Rep Name: Not reported
Rpt Taken By Duty Officer: Not reported
Duty Officer Report No: Not reported
Comments: Not reported

Product:
Program ID: 171255
Spill Incident Accuracy Id: Not reported
Spill Product Code: Petroleum, Unspecified
Spill Qty Units Code: Unknown
Spill Incident Accuracy Code: Unknown
Spill Released Qty: 0

KING OF GRACE LUTHERAN CHURCH (Continued) **U000885241**

WIMN:
Legislative District: 45B
Latitude: 44.99991839
Longitude: -93.35583676
Activity: Multiple Activities
MPCA Id: Multiple Activities
Major Watershed: Mississippi River - Twin Cities
Coordinate Collection: Address Matching House Number
Status: Inactive

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2 BYERLY'S GOLDEN VALLEY **FINDS 1014898482**
5725 DULUTH ST **N/A**
GOLDEN VALLEY, MN

FINDS:

Registry ID: 110043836926

Environmental Interest/Information System
MN-DELTA (Minnesota - Permitting, Compliance, And Enforcement Information Management System) facilitates the issuance of permits and manages compliance.

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2 BYERLY'S GOLDEN VALLEY **MN WIMN S110427703**
5725 DULUTH ST **N/A**
GOLDEN VALLEY, MN 55422

WIMN:
Legislative District: 45B
Latitude: 44.99870929
Longitude: -93.35260005
Activity: Hazardous Waste, Small to Minimal QG
MPCA Id: MNS000155507
Major Watershed: Mississippi River - Twin Cities
Coordinate Collection: Digitized - Map Tool
Status: Active

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2 LOGIS OFFICE ADDITION - CSW **MN WIMN S110435515**
5750 DULUTH ST **N/A**
GOLDEN VALLEY, MN 55422

WIMN:
Legislative District: 45B
Latitude: 44.99930137
Longitude: -93.35269508
Activity: Construction Stormwater Permit
MPCA Id: C00021699
Major Watershed: Mississippi River - Twin Cities
Coordinate Collection: Address Matching House Number

LOGIS OFFICE ADDITION - CSW (Continued) — **S110435515**

Status: Inactive

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3 EAR NOSE & THROAT SPECIALTY CARE GV — **MN WIMN** — **S110194355**
5851 DULUTH ST STE 204 — **N/A**
GOLDEN VALLEY, MN 55422

WIMN:
- Legislative District: 45B
- Latitude: 44.99922291
- Longitude: -93.35402274
- Activity: Hazardous Waste, Small to Minimal QG
- MPCA Id: MND116904046
- Major Watershed: Mississippi River - Twin Cities
- Coordinate Collection: Address Matching House Number
- Status: Active

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3 CENTENNIAL LAKES DENTAL NORTH — **FINDS** — **1010706277**
5851 DULUTH ST STE 218 — **N/A**
GOLDEN VALLEY, MN

FINDS:

Registry ID: 110032968518

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

MN-DELTA (Minnesota - Permitting, Compliance, And Enforcement Information Management System) facilitates the issuance of permits and manages compliance.

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3 CENTENNIAL LAKES DENTAL NORTH — **MN WIMN** — **S110428102**
5851 DULUTH ST STE 218 — **N/A**
GOLDEN VALLEY, MN 55422

WIMN:
- Legislative District: 45B
- Latitude: 44.99922291
- Longitude: -93.35402274
- Activity: Hazardous Waste, Small to Minimal QG
- MPCA Id: MNS000130294
- Major Watershed: Mississippi River - Twin Cities
- Coordinate Collection: Address Matching House Number
- Status: Active

CENTENNIAL LAKES DENTAL NORTH (Continued) — **S110428102**

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3 GOLDEN VALLEY DENTAL XRAY — **RCRA NonGen / NLR** — **1000186700**
5851 DULUTH ST STE 314 — **FINDS** — **MND985678358**
GOLDEN VALLEY, MN 55422 — **MN WIMN**

RCRA NonGen / NLR:
- Date form received by agency: 09/18/2007
- Facility name: GOLDEN VALLEY DENTAL XRAY
- Facility address: 5851 DULUTH ST STE 314 GOLDEN VALLEY, MN 55422
- EPA ID: MND985678358
- Contact: JACKIE MELLEM
- Contact address: 5851 DULUTH ST STE 314 GOLDEN VALLEY, MN 55422
- Contact country: US
- Contact telephone: (612) 331-4622
- Contact email: Not reported
- EPA Region: 05
- Classification: Non-Generator
- Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
- Owner/operator name: NAME NOT REPORTED
- Owner/operator address: ADDRESS NOT REPORTED CITY NOT REPORTED, AK 99998
- Owner/operator country: Not reported
- Owner/operator telephone: (312) 555-1212
- Legal status: Private
- Owner/Operator Type: Operator
- Owner/Op start date: Not reported
- Owner/Op end date: Not reported

- Owner/operator name: GOLDEN VALLEY DENTAL XRAY
- Owner/operator address: 5851 DULUTH ST STE 314 GOLDEN VALLEY, MN 55422
- Owner/operator country: US
- Owner/operator telephone: (612) 331-4622
- Legal status: Private
- Owner/Operator Type: Operator
- Owner/Op start date: 07/26/1999
- Owner/Op end date: 09/20/2007

Handler Activities Summary:
- U.S. importer of hazardous waste: No
- Mixed waste (haz. and radioactive): No
- Recycler of hazardous waste: No
- Transporter of hazardous waste: No
- Treater, storer or disposer of HW: No
- Underground injection activity: No
- On-site burner exemption: No
- Furnace exemption: No
- Used oil fuel burner: No
- Used oil processor: No
- User oil refiner: No
- Used oil fuel marketer to burner: No

GOLDEN VALLEY DENTAL XRAY (Continued) — **1000186700**

- Used oil Specification marketer: No
- Used oil transfer facility: No
- Used oil transporter: No

Hazardous Waste Summary:
- Waste code: D000
- Waste name: Not Defined

- Waste code: D002
- Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Violation Status: No violations found

FINDS:

Registry ID: 110008764088

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

MN-DELTA (Minnesota - Permitting, Compliance, And Enforcement Information Management System) facilitates the issuance of permits and manages compliance.

WIMN:
- Legislative District: 45B
- Latitude: 44.99922291
- Longitude: -93.35402274
- Activity: Hazardous Waste, Small to Minimal QG
- MPCA Id: MND985678358
- Major Watershed: Mississippi River - Twin Cities
- Coordinate Collection: Address Matching House Number
- Status: Inactive

Click here to access Minnesota Pollution Control Agency:

3 DANIEL E SMOLEROFF DDS — **MN WIMN** — **S110429729**
5851 DULUTH ST STE 315 — **N/A**
GOLDEN VALLEY, MN 55422

WIMN:
- Legislative District: 45B
- Latitude: 44.99922291
- Longitude: -93.35402274
- Activity: Hazardous Waste, Small to Minimal QG
- MPCA Id: MND985685601
- Major Watershed: Mississippi River - Twin Cities
- Coordinate Collection: Address Matching House Number
- Status: Active

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3 CENTENNIAL LAKES DENTAL NORTH — **RCRA-CESQG** — **1010564877**
5851 DULUTH ST STE 218 — **MNS000130294**
GOLDEN VALLEY, MN 55422

RCRA-CESQG:
- Date form received by agency: 11/08/2007
- Facility name: CENTENNIAL LAKES DENTAL NORTH
- Facility address: 5851 DULUTH ST STE 218 GOLDEN VALLEY, MN 55422
- EPA ID: MNS000130294
- Contact: ALISSA DAHL
- Contact address: 5851 DULUTH ST STE 218 GOLDEN VALLEY, MN 55422
- Contact country: US
- Contact telephone: (763) 544-0121
- Contact email: Not reported
- EPA Region: 05
- Classification: Conditionally Exempt Small Quantity Generator
- Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:
- Owner/operator name: CENTENNIAL LAKES NORTH DENTAL
- Owner/operator address: 5851 DULUTH ST STE 218 GOLDEN VALLEY, MN 55422
- Owner/operator country: US
- Owner/operator telephone: (763) 544-0121
- Legal status: Private
- Owner/Operator Type: Owner
- Owner/Op start date: 11/08/2007
- Owner/Op end date: Not reported

CENTENNIAL LAKES DENTAL NORTH (Continued) — **1010564877**

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

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3 **WEST METRO OPHTHALMOLOGY** — RCRA-CESQG — **1012182314**
5851 DULUTH ST STE 215 — **MNS000149294**
GOLDEN VALLEY, MN 55422

RCRA-CESQG:
Date form received by agency: 09/21/2009
Facility name: WEST METRO OPHTHALMOLOGY
Facility address: 5851 DULUTH ST STE 215
GOLDEN VALLEY, MN 55422
EPA ID: MNS000149294
Contact: DOROTHY ALSETH
Contact address: 5851 DULUTH ST STE 215
GOLDEN VALLEY, MN 55422
Contact country: US
Contact telephone: (763) 546-8422
Contact email: Not reported
EPA Region: 05
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:
Owner/operator name: WEST METRO OPHTHALMOLOGY
Owner/operator address: 5851 DULUTH ST STE 215
GOLDEN VALLEY, MN 55422
Owner/operator country: US
Owner/operator telephone: (763) 546-8422

WEST METRO OPHTHALMOLOGY (Continued) — **1012182314**

Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 09/23/2009
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

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3 **WEST METRO OPHTHALMOLOGY** — FINDS — **1012130543**
5851 DULUTH ST STE 215 — **N/A**
GOLDEN VALLEY, MN

FINDS:

Registry ID: 110039502936

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

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3 **EAR NOSE & THROAT SPECIALTY CARE GV** — FINDS — **1016051057**
5851 DULUTH ST STE 204 — **N/A**
GOLDEN VALLEY, MN

FINDS:

Registry ID: 110009399775

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport,

EAR NOSE & THROAT SPECIALTY CARE GV (Continued) — **1016051057**

and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

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3 **MIDWEST FOOT & ANKLE SPECIALISTS - GV** — RCRA-CESQG — **1004737114**
5851 DULUTH ST STE 101 — FINDS — **MNR000032102**
GOLDEN VALLEY, MN 55422 — MN WIMN

RCRA-CESQG:
Date form received by agency: 03/03/1997
Facility name: MIDWEST FOOT & ANKLE SPECIALISTS - GV
Facility address: 5851 DULUTH ST STE 101
GOLDEN VALLEY, MN 554223955
EPA ID: MNR000032102
Contact: Not reported
Contact address: Not reported
Not reported
Contact country: Not reported
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 05
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:
Owner/operator name: ACTIVE FLEET
Owner/operator address: 98 W 66TH ST STE 204
RICHFIELD, MN 55423
Owner/operator country: US
Owner/operator telephone: NONE
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 07/26/1999
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No

MIDWEST FOOT & ANKLE SPECIALISTS - GV (Continued) — **1004737114**

Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Hazardous Waste Summary:
Waste code: D000
Waste name: Not Defined

Waste code: D011
Waste name: SILVER

Violation Status: No violations found

FINDS:

Registry ID: 110008764168

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

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WIMN:
Legislative District: 45B
Latitude: 44.99922291
Longitude: -93.35402274
Activity: Hazardous Waste, Small to Minimal QG
MPCA Id: MNR000032102
Major Watershed: Mississippi River - Twin Cities
Coordinate Collection: Address Matching House Number
Status: Active

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3 **DANIEL E SMOLEROFF DDS** FINDS 1012101020
5851 DULUTH ST STE 315 N/A
GOLDEN VALLEY, MN

FINDS:

Registry ID: 110038506701

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

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3 **GIEBENHAIN DENTAL ASSOCIATES PA** RCRA-CESQG 1000162460
5851 DULUTH ST STE 303 FINDS MND982609448
GOLDEN VALLEY, MN

RCRA-CESQG:
Date form received by agency: 06/17/1988
Facility name: GIEBENHAIN DENTAL ASSOCIATES PA
Facility address: 5851 DULUTH ST STE 103
GOLDEN VALLEY, MN 554223957
EPA ID: MND982609448
Contact: JOHN N GIEBENHAIN
Contact address: 5851 DULUTH ST STE 103
GOLDEN VALLEY, MN 554223957
Contact country: US
Contact telephone: (612) 545-0330
Contact email: Not reported
EPA Region: 05
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:
Owner/operator name: NAME NOT REPORTED
Owner/operator address: ADDRESS NOT REPORTED
CITY NOT REPORTED, AK 99998
Owner/operator country: Not reported

GIEBENHAIN DENTAL ASSOCIATES PA (Continued) 1000162460

Owner/operator telephone: (312) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: GIEBENHAIN DENTAL ASSOCIATES PA
Owner/operator address: 5851 DULUTH ST STE 103
GOLDEN VALLEY, MN 55422
Owner/operator country: US
Owner/operator telephone: (612) 545-0330
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 07/26/1999
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Hazardous Waste Summary:
Waste code: D000
Waste name: Not Defined

Violation Status: No violations found

FINDS:

Registry ID: 110008791218

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

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3 **DANIEL E SMOLEROFF DDS** RCRA-CESQG 1004731113
5851 DULUTH ST STE 315 MND985685601
GOLDEN VALLEY, MN 55422

RCRA-CESQG:
Date form received by agency: 11/02/2009
Facility name: DANIEL E SMOLEROFF DDS
Facility address: 5851 DULUTH ST STE 315
GOLDEN VALLEY, MN 55422
EPA ID: MND985685601
Contact: DANIEL E SMOLEROFF
Contact address: 5851 DULUTH ST STE 315
GOLDEN VALLEY, MN 55422
Contact country: US
Contact telephone: (763) 544-1626
Contact email: Not reported
EPA Region: 05
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:
Owner/operator name: DANIEL E SMOLEROFF DDS
Owner/operator address: 5851 DULUTH ST STE 315
GOLDEN VALLEY, MN 55422
Owner/operator country: US
Owner/operator telephone: (763) 544-1626
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 05/28/2009
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No

DANIEL E SMOLEROFF DDS (Continued) 1004731113

Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 05/28/2009
Facility name: DANIEL E SMOLEROFF DDS
Classification: Conditionally Exempt Small Quantity Generator

Violation Status: No violations found

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3 **KNUDSON DOUGLAS J DDS** RCRA-CESQG 1004726993
5851 DULUTH ST STE 313 FINDS MN0000486860
GOLDEN VALLEY, MN 55422 MN WIMN

RCRA-CESQG:
Date form received by agency: 07/25/1994
Facility name: KNUDSON DOUGLAS J DDS
Facility address: 5851 DULUTH ST STE 313
GOLDEN VALLEY, MN 554223957
EPA ID: MN0000486860
Contact: DOUGLAS J KNUDSON
Contact address: 5851 DULUTH ST STE 313
GOLDEN VALLEY, MN 554223957
Contact country: US
Contact telephone: (763) 542-8723
Contact email: Not reported
EPA Region: 05
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:
Owner/operator name: KNUDSON DOUGLAS J DDS
Owner/operator address: 5851 DULUTH ST STE 313
GOLDEN VALLEY, MN 55422
Owner/operator country: US
Owner/operator telephone: (763) 542-8723
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 07/26/1999
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No

KNUDSON DOUGLAS J DDS (Continued) **1004726993**

Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Hazardous Waste Summary:
Waste code: D008
Waste name: LEAD

Waste code: D009
Waste name: MERCURY

Waste code: D011
Waste name: SILVER

Violation Status: No violations found

FINDS:

Registry ID: 110008764248

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

MN-DELTA (Minnesota - Permitting, Compliance, And Enforcement Information Management System) facilitates the issuance of permits and manages compliance.

WIMN:
Legislative District: 45B
Latitude: 44.99922291
Longitude: -93.35402274
Activity: Hazardous Waste, Small to Minimal QG
MPCA Id: MN0000486860
Major Watershed: Mississippi River - Twin Cities
Coordinate Collection: Address Matching House Number
Status: Active

Click here to access Minnesota Pollution Control Agency:

3 **IMPLANT PERIODONTICS LTD** **RCRA-CESQG** **1004726994**
5851 DULUTH ST STE 313B **FINDS** **MN0000486878**
GOLDEN VALLEY, MN 55422 **MN WIMN**

RCRA-CESQG:
Date form received by agency: 07/25/1994
Facility name: IMPLANT PERIODONTICS LTD
Facility address: 5851 DULUTH ST STE 313B
GOLDEN VALLEY, MN 554223957
EPA ID: MN0000486878
Contact: Not reported
Contact address: Not reported
Not reported
Contact country: Not reported
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 05
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:
Owner/operator name: IMPLANT PERIODONTICS LTD
Owner/operator address: 5851 DULUTH ST STE 313B
GOLDEN VALLEY, MN 55422
Owner/operator country: US
Owner/operator telephone: NONE
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 07/26/1999
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No

IMPLANT PERIODONTICS LTD (Continued) **1004726994**

Used oil transfer facility: No
Used oil transporter: No

Hazardous Waste Summary:
Waste code: D000
Waste name: Not Defined

Waste code: D008
Waste name: LEAD

Waste code: D011
Waste name: SILVER

Violation Status: No violations found

FINDS:

Registry ID: 110008764015

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

MN-DELTA (Minnesota - Permitting, Compliance, And Enforcement Information Management System) facilitates the issuance of permits and manages compliance.

WIMN:
Legislative District: 45B
Latitude: 44.99922291
Longitude: -93.35402274
Activity: Hazardous Waste, Small to Minimal QG
MPCA Id: MN0000486878
Major Watershed: Mississippi River - Twin Cities
Coordinate Collection: Address Matching House Number
Status: Active

Click here to access Minnesota Pollution Control Agency:

3 **GERALD N WINTHEISER DDS** **RCRA-CESQG** **1004726992**
5851 DULUTH ST STE 211 **FINDS** **MN0000486852**
GOLDEN VALLEY, MN **MN WIMN**

RCRA-CESQG:
Date form received by agency: 12/15/2009
Facility name: WINTHEISER GERALD DDS
Site name: GERALD N WINTHEISER DDS
Facility address: 5851 DULUTH ST STE 211
GOLDEN VALLEY, MN 55422
EPA ID: MN0000486852
Contact: JEANINE RICHTER
Contact address: 5851 DULUTH ST STE 211

GERALD N WINTHEISER DDS (Continued) **1004726992**

GOLDEN VALLEY, MN 55422
Contact country: US
Contact telephone: (612) 546-4101
Contact email: Not reported
EPA Region: 05
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:
Owner/operator name: GERALD N WINTHEISER DDS
Owner/operator address: 5851 DULUTH ST STE 211
GOLDEN VALLEY, MN 55422
Owner/operator country: US
Owner/operator telephone: (612) 546-4101
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 07/26/1999
Owner/Op end date: 12/16/2009

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 07/25/1994
Facility name: WINTHEISER GERALD DDS
Classification: Conditionally Exempt Small Quantity Generator

Violation Status: No violations found

GERALD N WINTHEISER DDS (Continued) **1004726992**

FINDS:

Registry ID: 110003732211

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

MN-DELTA (Minnesota - Permitting, Compliance, And Enforcement Information Management System) facilitates the issuance of permits and manages compliance.

WIMN:
Legislative District: 45B
Latitude: 44.99922291
Longitude: -93.35402274
Activity: Hazardous Waste, Small to Minimal QG
MPCA Id: MN0000486852
Major Watershed: Mississippi River - Twin Cities
Coordinate Collection: Address Matching House Number
Status: Inactive

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3 BASSETT CREEK DENTAL **RCRA-CESQG 1004731018**
5851 DULUTH ST STE 100 **FINDS MND985682558**
GOLDEN VALLEY, MN **MN WIMN**

RCRA-CESQG:
Date form received by agency: 05/30/1990
Facility name: BASSETT CREEK DENTAL
Facility address: 5851 DULUTH ST STE 100
GOLDEN VALLEY, MN 554223975
EPA ID: MND985682558
Contact: RAY LEHN
Contact address: 5851 DULUTH ST STE 100
GOLDEN VALLEY, MN 554223975
Contact country: US
Contact telephone: (320) 358-3124
Contact email: Not reported
EPA Region: 05
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any

BASSETT CREEK DENTAL (Continued) **1004731018**

time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:
Owner/operator name: BASSETT CREEK DENTAL
Owner/operator address: 5851 DULUTH ST STE 100
GOLDEN VALLEY, MN 55422
Owner/operator country: US
Owner/operator telephone: (320) 358-3124
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 07/26/1999
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Hazardous Waste Summary:
Waste code: D000
Waste name: Not Defined

Waste code: D008
Waste name: LEAD

Waste code: D009
Waste name: MERCURY

Waste code: D011
Waste name: SILVER

Violation Status: No violations found

FINDS:

Registry ID: 110008791030

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport,

BASSETT CREEK DENTAL (Continued) **1004731018**

and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

MN-DELTA (Minnesota - Permitting, Compliance, And Enforcement Information Management System) facilitates the issuance of permits and manages compliance.

WIMN:
Legislative District: 45B
Latitude: 44.99922291
Longitude: -93.35402274
Activity: Hazardous Waste, Small to Minimal QG
MPCA Id: MND985682558
Major Watershed: Mississippi River - Twin Cities
Coordinate Collection: Address Matching House Number
Status: Active

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3 KUSHINO NORMAN T DDS **RCRA NonGen / NLR 1000241922**
5851 DULUTH ST STE 301B **FINDS MND982619850**
GOLDEN VALLEY, MN **MN WIMN**

RCRA NonGen / NLR:
Date form received by agency: 02/09/1989
Facility name: KUSHINO NORMAN T DDS
Facility address: 5851 DULUTH ST STE 301B
GOLDEN VALLEY, MN 554223957
EPA ID: MND982619850
Contact: Not reported
Contact address: Not reported
Not reported
Contact country: Not reported
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 05
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: NAME NOT REPORTED
Owner/operator address: ADDRESS NOT REPORTED
CITY NOT REPORTED, AK 99998
Owner/operator country: Not reported
Owner/operator telephone: (312) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: KUSHINO NORMAN T DDS
Owner/operator address: 5851 DULUTH ST STE 301B
GOLDEN VALLEY, MN 55422
Owner/operator country: US
Owner/operator telephone: NONE

KUSHINO NORMAN T DDS (Continued) **1000241922**

Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 07/26/1999
Owner/Op end date: 07/08/2003

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Hazardous Waste Summary:
Waste code: D000
Waste name: Not Defined

Violation Status: No violations found

FINDS:

Registry ID: 110008764220

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

MN-DELTA (Minnesota - Permitting, Compliance, And Enforcement Information Management System) facilitates the issuance of permits and manages compliance.

WIMN:
Legislative District: 45B
Latitude: 44.99922291
Longitude: -93.35402274
Activity: Hazardous Waste, Small to Minimal QG
MPCA Id: MND982619850
Major Watershed: Mississippi River - Twin Cities
Coordinate Collection: Address Matching House Number
Status: Inactive

KUSHINO NORMAN T DDS (Continued) **1000241922**

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3 EAR NOSE & THROAT SPECIALTY CARE GV **RCRA-CESQG** **1000229364**
5851 DULUTH ST STE 204 **MND116904046**
GOLDEN VALLEY, MN 55422

RCRA-CESQG:
Date form received by agency: 04/17/2007
Facility name: EAR NOSE & THROAT SPECIALTY CARE GV
Facility address: 5851 DULUTH ST STE 204
GOLDEN VALLEY, MN 55422
EPA ID: MND116904046
Mailing address: 2211 PARK AVE S
MINNEAPOLIS, MN 55404
Contact: MERRILEE LOTZOW
Contact address: 2211 PARK AVE S
MINNEAPOLIS, MN 55404
Contact country: US
Contact telephone: (612) 871-1144
Contact email: Not reported
EPA Region: 05
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:
Owner/operator name: MINNEAPOLIS EAR NOSE & THROAT CLINIC
Owner/operator address: 2211 PARK AVE S
MINNEAPOLIS, MN 55404
Owner/operator country: US
Owner/operator telephone: (612) 871-1144
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 07/26/1999
Owner/Op end date: Not reported

Owner/operator name: NAME NOT REPORTED
Owner/operator address: ADDRESS NOT REPORTED
CITY NOT REPORTED, AK 99998
Owner/operator country: Not reported
Owner/operator telephone: (312) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported

EAR NOSE & THROAT SPECIALTY CARE GV (Continued) **1000229364**

Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 08/12/1994
Facility name: EAR NOSE & THROAT SPECIALTY CARE GV
Site name: GARFIN LAURENCE A DDS LTD
Classification: Not a generator, verified

Hazardous Waste Summary:
Waste code: D000
Waste name: Not Defined

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Violation Status: No violations found

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3 GIEBENHAIN DENTAL ASSOCIATES PA **MN WIMN** **S110199534**
5851 DULUTH ST STE 103 **N/A**
GOLDEN VALLEY, MN 55422

WIMN:
Legislative District: 45B
Latitude: 44.99922291
Longitude: -93.35402274
Activity: Hazardous Waste, Small to Minimal QG
MPCA Id: MND982609448
Major Watershed: Mississippi River - Twin Cities
Coordinate Collection: Address Matching House Number
Status: Active

Click here to access Minnesota Pollution Control Agency:

3 DANIEL G RAETHER DDS **RCRA NonGen / NLR** **1004727035**
5851 DULUTH ST STE 304 **FINDS** **MN0000560870**
GOLDEN VALLEY, MN **MN WIMN**

RCRA NonGen / NLR:
Date form received by agency: 09/18/2007
Facility name: DANIEL G RAETHER DDS
Facility address: 5851 DULUTH ST STE 304
GOLDEN VALLEY, MN 55422
EPA ID: MN0000560870
Mailing address: 2855 CAMPUS DR STE 360
PLYMOUTH, MN 55441
Contact: DANIEL G RAETHER
Contact address: 2855 CAMPUS DR STE 360
PLYMOUTH, MN 55441
Contact country: US
Contact telephone: (763) 383-1788
Contact email: Not reported
EPA Region: 05
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: DANIEL G RAETHER DDS
Owner/operator address: 5851 DULUTH ST STE 304
GOLDEN VALLEY, MN 55422
Owner/operator country: US
Owner/operator telephone: (763) 383-1788
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 07/26/1999
Owner/Op end date: 09/20/2007

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 08/08/1994
Facility name: DANIEL G RAETHER DDS
Classification: Not a generator, verified

Violation Status: No violations found

FINDS:

DANIEL G RAETHER DDS (Continued) **1004727035**

Registry ID: 110009396956

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

MN-DELTA (Minnesota - Permitting, Compliance, And Enforcement Information Management System) facilitates the issuance of permits and manages compliance.

WIMN:
Legislative District: 45B
Latitude: 44.99922291
Longitude: -93.35402274
Activity: Hazardous Waste, Small to Minimal QG
MPCA Id: MN0000560870
Major Watershed: Mississippi River - Twin Cities
Coordinate Collection: Address Matching House Number
Status: Inactive

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3 WEST METRO OPHTHALMOLOGY **MN WIMN** **S110444184**
5851 DULUTH ST STE 215 **N/A**
GOLDEN VALLEY, MN 55422

WIMN:
Legislative District: 45B
Latitude: 44.99922291
Longitude: -93.35402274
Activity: Hazardous Waste, Small to Minimal QG
MPCA Id: MNS000149294
Major Watershed: Mississippi River - Twin Cities
Coordinate Collection: Address Matching House Number
Status: Active

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4 E & V CONSULTANTS AND CONST MANAGERS **FINDS** **1005642080**
5801 DULUTH STREET, #345 **N/A**
MINNEAPOLIS, MN

FINDS:

Registry ID: 110010742358

Environmental Interest/Information System
ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to

E & V CONSULTANTS AND CONST MANAGERS (Continued) **1005642080**

replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

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4 INSPEC INC. **RCRA-CESQG 1000345817**
5801 DULUTH STREET **MLTS MND985681881**
MINNEAPOLIS, MN 55422 **FINDS**
MN WIMN

RCRA-CESQG:
Date form received by agency: 05/14/1990
Facility name: INSPEC INC
Facility address: 5801 DULUTH ST
GOLDEN VALLEY, MN 55422
EPA ID: MND985681881
Contact: ERNEST PADGETT
Contact address: 5801 DULUTH ST
MINNEAPOLIS, MN 554223958
Contact country: US
Contact telephone: (763) 546-3434
Contact email: Not reported
EPA Region: 05
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:
Owner/operator name: INSPEC INC
Owner/operator address: 5801 DULUTH ST
MINNEAPOLIS, MN 55422
Owner/operator country: US
Owner/operator telephone: (763) 546-3434
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 07/26/1999
Owner/Op end date: Not reported

INSPEC INC. (Continued) **1000345817**

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Hazardous Waste Summary:
Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: F001
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

MLTS:
License Number: 22-24809-01
First License Date: 12/15/86
License Date: 04/17/97
Lic. Expiration Date: 01/31/02
Contact Name: ROGER POCTA
Contact Phone: 612-546-3434
Institution Code: 34021
Department/Bldg: Not reported
States Allowing Use: Not reported
Store Material Use: No
Redistribution Use: No
Incinerate Use: No
Burial Use: No
Last Inspection Date: 01/01/97
Next Inspection Date: 01/01/02
Licensee Contact: Not reported
Inspector Name: POCTA

INSPEC INC. (Continued) **1000345817**

FINDS:

Registry ID: 110003839482

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

MN-DELTA (Minnesota - Permitting, Compliance, And Enforcement Information Management System) facilitates the issuance of permits and manages compliance.

WIMN:
Legislative District: 45B
Latitude: 44.99913239
Longitude: -93.35351389
Activity: Hazardous Waste, Small to Minimal QG
MPCA Id: MND985681881
Major Watershed: Mississippi River - Twin Cities
Coordinate Collection: Address Matching House Number
Status: Active

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4 PAUL BRINK ASSOCIATES INC **MN WIMN S110221811**
5801 DULUTH ST STE 300 **N/A**
GOLDEN VALLEY, MN 55422

WIMN:
Legislative District: 45B
Latitude: 44.99913239
Longitude: -93.35351389
Activity: Hazardous Waste, Small to Minimal QG
MPCA Id: MND062820428
Major Watershed: Mississippi River - Twin Cities
Coordinate Collection: Address Matching House Number
Status: Active

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4 BRINK PAUL ASSOCIATES INC **RCRA NonGen / NLR 1000316666**
5801 DULUTH ST **FINDS MND062820428**
GOLDEN VALLEY, MN 55422

RCRA NonGen / NLR:
Date form received by agency: 10/01/1996
Facility name: BRINK PAUL ASSOCIATES INC
Facility address: 5801 DULUTH ST
GOLDEN VALLEY, MN 55422
EPA ID: MND062820428

BRINK PAUL ASSOCIATES INC (Continued) **1000316666**

Mailing address: 5801 DULUTH ST STE 300
GOLDEN VALLEY, MN 55422
Contact: Not reported
Contact address: Not reported
Not reported
Contact country: Not reported
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 05
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: NAME NOT REPORTED
Owner/operator address: ADDRESS NOT REPORTED
CITY NOT REPORTED, AK 99998
Owner/operator country: Not reported
Owner/operator telephone: (312) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: PAUL BRINK ASSOCIATES INC
Owner/operator address: 5801 DULUTH ST STE 300
GOLDEN VALLEY, MN 55422
Owner/operator country: US
Owner/operator telephone: NONE
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 07/26/1999
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 06/16/1987
Facility name: BRINK PAUL ASSOCIATES INC
Site name: PAUL BRINK ASSOCIATES INC
Classification: Conditionally Exempt Small Quantity Generator

BRINK PAUL ASSOCIATES INC (Continued) **1000316666**

Hazardous Waste Summary:
- Waste code: D000
- Waste name: Not Defined

- Waste code: D002
- Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

- Violation Status: No violations found

FINDS:

- Registry ID: 110003770296

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

MN-DELTA (Minnesota - Permitting, Compliance, And Enforcement Information Management System) facilitates the issuance of permits and manages compliance.

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4 E & V CONSULTANTS AND CONST MANAGERS **ICIS 1011601483**
5801 DULUTH STREET, #345 MINNEAPOLIS MN 55422 **N/A**
MINNEAPOLIS, MN 55422

ICIS:
- Enforcement Action ID: 05-1999-0207
- FRS ID: 110010742358
- Program ID: FRS 110010742358
- Action Name: E & V CONSULTANTS AND CONSTRUCTION MANAGERS
- Facility Name: E & V CONSULTANTS AND CONST MANAGERS
- Facility Address: 5801 DULUTH STREET, #345 MINNEAPOLIS MN 55422 MINNEAPOLIS, Minnesota 55422
- Enforcement Action Type: CAA 113A Admin Compliance Order (Non-Penalty)
- Facility County: Hennepin
- EPA Region #: 5

- Program ID: FRS 110010742358
- Facility Name: E & V CONSULTANTS AND CONST MANAGERS
- Address: 5801 DULUTH STREET, #345
- Tribal Indicator: N
- Fed Facility: Not reported
- NAIC Code: Not reported
- SIC Code: 8742
- Latitude: 44.99912
- Longitude: -93.352722

5 COLONIAL ACRES HOME INC **RCRA-CESQG 1001220600**
5825 SAINT CROIX AVE N **FINDS MNR000056879**
MINNEAPOLIS, MN **MN WIMN**

RCRA-CESQG:
- Date form received by agency: 12/01/1997
- Facility name: COLONIAL ACRES HOME INC
- Facility address: 5825 ST CROIX AVE N MINNEAPOLIS, MN 554224484
- EPA ID: MNR000056879
- Contact: JOHN HAUGEN
- Contact address: 5825 ST CROIX AVE N MINNEAPOLIS, MN 554224484
- Contact country: US
- Contact telephone: (763) 546-6125
- Contact email: Not reported
- EPA Region: 05
- Classification: Conditionally Exempt Small Quantity Generator
- Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:
- Owner/operator name: COLONIAL ACRES HOME INC
- Owner/operator address: 5825 ST CROIX AVE N MINNEAPOLIS, MN 55422
- Owner/operator country: US
- Owner/operator telephone: (763) 546-6125
- Legal status: Private
- Owner/Operator Type: Operator
- Owner/Op start date: 07/26/1999
- Owner/Op end date: Not reported

Handler Activities Summary:
- U.S. importer of hazardous waste: No
- Mixed waste (haz. and radioactive): No
- Recycler of hazardous waste: No
- Transporter of hazardous waste: No
- Treater, storer or disposer of HW: No
- Underground injection activity: No
- On-site burner exemption: No
- Furnace exemption: No
- Used oil fuel burner: No
- Used oil processor: No
- User oil refiner: No
- Used oil fuel marketer to burner: No
- Used oil Specification marketer: No

COLONIAL ACRES HOME INC (Continued) **1001220600**

- Used oil transfer facility: No
- Used oil transporter: No

Hazardous Waste Summary:
- Waste code: D001
- Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

- Waste code: D002
- Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

- Waste code: X002
- Waste name: POLYCHLORINATED BIPHENOLS (PCBs)

- Violation Status: No violations found

FINDS:

- Registry ID: 110008656105

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

MN-DELTA (Minnesota - Permitting, Compliance, And Enforcement Information Management System) facilitates the issuance of permits and manages compliance.

WIMN:
- Legislative District: 45B
- Latitude: 44.99638611
- Longitude: -93.35373024
- Activity: Hazardous Waste, Small to Minimal QG
- MPCA Id: MNR000056879
- Major Watershed: Mississippi River - Twin Cities
- Coordinate Collection: Address Matching House Number
- Status: Active

Click here to access Minnesota Pollution Control Agency:

5 COVENANT MANOR **MN LUST U001322449**
5800 SAINT CROIX AVE **MN UST N/A**
GOLDEN VALLEY, MN 55422 **MN SPILLS**
MN WIMN

LUST:
- Leak ID: 6090
- MNPCA ID: 218735
- Site ID: 53889901
- Source: CORE
- Interest Type: Leak Site
- Interest Phone: NO CORE PI PH.
- Interest Start Date: 06/30/1997 00:00:00
- Interest End Date: Not reported
- Release Discovered Date: 01/07/1993
- Leak Reported Date: 01/22/1993
- Leak Site: Leak Site - Tank and Petroleum Contamination
- File Archive Box: 15
- File Archive Lot: 97/296
- Soil Digout Date: 03/04/1993
- Cubic Yards Excavated: 11
- Conditional Closure Date: Not reported
- **Complete Site Closure Date: 03/24/1995 00:00:00**
- Contaminated Soils Remaining: Yes
- Enforcement Action Begin Date: 01/27/1993
- Lust Trust Eligible: No
- Offsite Contamination: Unknown
- Reimbursement Awarded: No
- Std Letter Response Date: Not reported
- Surface Water Impact: Unknown
- Utility Project Flag: No
- TMSP Added: 12/04/1999 14:03:47
- TMSP Last Update: 05/04/2002 09:20:22
- Staff Id Last Update: TANKS
- Release From AST: No
- Release From UST: No
- Tank Registration Status Code: U
- VPIC Application Date: Not reported
- VPIC Acres: Not reported
- Addr Id: 277316
- Township Name: Fort Snelling
- Active Flag: No
- Country Code: USA
- Foreign State: Not reported
- Foreign Zone: Not reported
- State County Code: MN
- Vapor Intrusion Checked Flag: Not reported
- Soil Gas Data Collected Flag: Not reported
- Soil Gas Action Level Flag: Not reported
- Sub Slab Sample Collected Flag: Not reported
- Indoor Air Collected Flag: Not reported
- Vapor Intrusion Action Flag: Not reported
- Vapor Intrusion Comments: Not reported
- Soil Gas Data Comments: Not reported
- Comments: Not reported

LEAK CLEANUP ACTIONS:
- MN PCA ID: 218735
- Leak Action Approval Date: Not reported
- Leak Action Begin Date: 03/04/1993 00:00:00

COVENANT MANOR (Continued) **U001322449**

Leak Action End Date: 05/17/1993 00:00:00
TMSP Added: 12/04/1999 14:05:11
TMSP Last Update: 05/04/2002 09:20:22
Staff Id Last Update: TANKS
MN PCA ID: 218735
Leak Action Approval Date: Not reported
Leak Action Begin Date: 03/04/1993 00:00:00
Leak Action End Date: 05/17/1993 00:00:00
TMSP Added: 12/04/1999 14:05:13
TMSP Last Update: 05/04/2002 09:20:22
Staff Id Last Update: TANKS

LEAK GW INFO:
MN PCA ID: 218735
Dw Supply Contam: Not reported
Free Product Observed: Not reported
Free Product Thickness: Not reported
Ground Water Contam: Yes
GW Cleanup Goal: 100
Gw Exceeds Cleanup Goal: Not reported
Cleanup Goal Achieved: Yes
Water Supply Exceeds Ral: Not reported
Well Type Code: Not reported
Impacted Aquifer Code: 3
TMSP Added: 12/04/1999 14:07:31
TMSP Last Update: 11/04/2003 12:57:07
Staff Id Last Update: RSUCHAN
Mtbe Present Now: Not reported
Mtbe Present Historically: Not reported
Mtbe High Ug Per Liter Char: Not reported
Mtbe High Ug Per Liter Numb: Not reported
Mtbe High Level Date: Not reported
Free Product At Close: Not reported
Staff Id Ass: Not reported
PWS Well: Not reported
Prot Flag: Not reported
Sens Flag: Not reported

LEAK PRODUCT RELEASED:
MN PCA ID: 218735
Prod Released Sequence Id: 321360
Leak Product: Diesel
Tmsp Added: 12/04/1999 14:04:33
Tmsp Last_updt: 05/04/2002 09:20:22
Staff Id Last Updt: TANKS

UST:

TANK:
MPCA Tank Number: 020
Tank Registration Date: 03/20/1993 00:00:00
Tank Storage Capacity: 300
Tank Dual Use: N
Tank Status: **Removed**
Tank Stored Product: Diesel
Tank Construction Material: Bare/Paint/Asph Coat Steel
Tank Cathodic Protection: None
Piping Cathodic Protection: None

COVENANT MANOR (Continued) **U001322449**

Piping Material: Copper
Second Contain Tank: Copper
Second Contain Pipe: Not reported
Tank Dispenser: Submersible
Above/ Under Ground: Under Ground
AST Base Material: Not reported
Piping Material Description: Not reported
Unregulated Tank Registration Date: Not reported
Compartmental Tank Flag: Not reported
Heating Product Flag: No
Haz Waste Generator Id: Not reported
Product Replaced Date: Not reported
Sludge Disposal Facility: Not reported
Comments: Not reported
Date Added: 10/10/1999 10:57:21
Date Last Updated: 09/24/2008 14:07:03
Staff Id Who Did The Last Update: RSUCHAN
In Compliance: No
Serial Number: Not reported

TANK ACTION:
MPCA Tank Number: 020
Above Or Underground: Under Ground
Tank Action ID: 848593
Contractor Number: 18
Supervisor Number: 1447
Tank Action: Remove Tank
Action Date: 03/04/1993 00:00:00
Action Date Unknown: Not reported
Corrosion Expert Name: Not reported
Lab Flag: Not reported
Date Added: 05/05/2000 08:30:55
Date Last Updated: 05/04/2002 08:32:50
Staff Id Who Did The Last Update: TANKS

MPCA Tank Number: 020
Above Or Underground: Under Ground
Tank Action ID: 837909
Contractor Number: Not reported
Supervisor Number: Not reported
Tank Action: Install Tank
Action Date: 01/01/1900 00:00:00
Action Date Unknown: Not reported
Corrosion Expert Name: Not reported
Lab Flag: Not reported
Date Added: 05/05/2000 08:30:20
Date Last Updated: 05/04/2002 08:32:50
Staff Id Who Did The Last Update: TANKS

TANK COMPARTMENT:
MPCA Tank Number: 020
Above Or Underground: Under Ground
Compartment Number: 1
Tank Stored Product Code: 10
Tank Stored Product Desc: DIESEL
Compartment Cap: 300
Heating: No

COVENANT MANOR (Continued) **U001322449**

Other Desc: Not reported
Date Added: 10/10/1999 10:58:47
Date Last Updated: 05/04/2002 08:32:50
Staff Id Who Did The Last Update: TANKS

TABSITE:
Program Interest Id: 205003
Above Or Underground: Under Ground
Facility Code: 17
Indian Reservation: No
UST Registration Date: 03/20/1993 00:00:00
AST Registration Date: Not reported
Date Added: 03/31/1993 16:29:52
Date Last Updated: 05/23/2003 09:21:03
Staff Id Who Did The Last Update: SYS
Max Monthly Gallons: Not reported
Vapor Recovery Installed: Unknown
Vapor Notify Required: Unknown

LATLONG:
Program Id: 205003
Latlong ID: 137871
Latitude Degrees: 44
Latitude Minutes: 59
Latitude Seconds: 47.71
Longitude Degrees: -93
Longitude Minutes: 21
Longitude Seconds: 12.81
Collection Date: 08/03/2004 12:34:08
Latlong Description: Not reported
TMSP Added: 12/03/2007 15:28:00
Date Last Updated: 03/30/2010 18:37:09
Staff Id Last Updated: MAPT_NC
Coord Source Type: Not reported
Org Name Source: Not reported

MN SPILL:
Program Id: 180637
Spill Date: 02/08/1996
Site ID: 0
Public Safety Spill ID: Not reported
Interest Type: Spill site
Interest Phone: Not reported
Preferred Id: 22972
Interest Start Date: 02/08/1996
Interest End Date: Not reported
Active: Not reported
Tmsp Added: 02/08/1996
Tmsp Last Updt: 04/11/2007 08:22:56
Staff Id Last Updt: RSUCHAN
Foreign Zone: Not reported
Spill Closure Desc: **Not reported**
Sp Rep Code: Nonsignificant, No Followup
Report Taken By: 3297
MPCA Project Manager: 3297

COVENANT MANOR (Continued) **U001322449**

MPCA Involvement: Not reported
Spill Site Closure Date: 02/08/1996
Spill Rep Desc: GOLDEN VALLEY DISPATCHER
Spill Reported Date: 02/08/1996
Init Cause Code: Equipment Failure
Init Cause Desc: EQUIPMENT FAILURE
Initial Source Code: 11
Priority: 3
Rep Phone: Not reported
Rep Name: Not reported
Rpt Taken By Duty Officer: Not reported
Duty Officer Report No: Not reported
Comments: SEWER BROKE AND FILLED UNDERGROUND GARAGE

Action:
Spill Action Code: 3
Spill Action Person: Not reported
Spill Action Date: Not reported
Tmsp Added: 02/08/1996 08:44:54
Tmsp Last Updt: 05/04/2002 07:11:39
Staff Id Last Updt: TANKS

Affected Description:
Spill Inc. Affect Code: Business
Spill Inc. Affect Code: Street, Parking Lot

Product:
Program ID: 180637
Spill Incident Accuracy Id: Not reported
Spill Product Code: Gasoline, Type Unknown
Spill Qty Units Code: Unknown
Spill Incident Accuracy Code: Estimated
Spill Released Qty: 0

WIMN:
Legislative District: 45B
Latitude: 44.99658855
Longitude: -93.35355903
Activity: Multiple Activities
MPCA Id: Multiple Activities
Major Watershed: Mississippi River - Twin Cities
Coordinate Collection: Address Matching House Number
Status: Inactive

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6 **2012 BASSETT CREEK RESTORATION PROJECT** **MN WIMN** **S111872615**
ADDRESS UNKNOWN **N/A**
GOLDEN VALLEY, MN 55427

WIMN:
Legislative District: 45B
Latitude: 44.99595999
Longitude: -93.35479999
Activity: Construction Stormwater Permit
MPCA Id: C00033730
Major Watershed: Mississippi River - Twin Cities
Coordinate Collection: Digitized - Permit Application Map

2012 BASSETT CREEK RESTORATION PROJECT (Continued) — **S111872615**

Status: Inactive

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7 **CONRAD MAUERSBERGER PROPERTY** — **MN LUST S106549368**
1620 E CONSTANCE DR — **MN WIMN N/A**
GOLDEN VALLEY, MN

LUST:

Leak ID:	7300
MNPCA ID:	219919
Site ID:	243818
Source:	CORE
Interest Type:	Leak Site
Interest Phone:	NO CORE PI PH.
Interest Start Date:	06/13/1997 00:00:00
Interest End Date:	Not reported
Release Discovered Date:	04/21/1994
Leak Reported Date:	04/22/1994
Leak Site:	Leak Site - Tank and Petroleum Contamination
File Archive Box:	07
File Archive Lot:	97/296
Soil Digout Date:	Not reported
Cubic Yards Excavated:	10
Conditional Closure Date:	Not reported
Complete Site Closure Date:	**03/15/1995 00:00:00**
Contaminated Soils Remaining:	Unknown
Enforcement Action Begin Date:	04/27/1994
Lust Trust Eligible:	No
Offsite Contamination:	Unknown
Reimbursement Awarded:	No
Std Letter Response Date:	Not reported
Surface Water Impact:	Unknown
Utility Project Flag:	No
TMSP Added:	12/04/1999 14:03:48
TMSP Last Update:	05/04/2002 09:24:43
Staff Id Last Update:	TANKS
Release From AST:	No
Release From UST:	No
Tank Registration Status Code:	U
VPIC Application Date:	Not reported
VPIC Acres:	Not reported
Addr Id:	278472
Township Name:	Fort Snelling
Active Flag:	No
Country Code:	USA
Foreign State:	Not reported
Foreign Zone:	Not reported
State County Code:	MN
Vapor Intrusion Checked Flag:	Not reported
Soil Gas Data Collected Flag:	Not reported
Soil Gas Action Level Flag:	Not reported
Sub Slab Sample Collected Flag:	Not reported
Indoor Air Collected Flag:	Not reported
Vapor Intrusion Action Flag:	Not reported
Vapor Intrusion Comments:	Not reported
Soil Gas Data Comments:	Not reported
Comments:	Not reported

CONRAD MAUERSBERGER PROPERTY (Continued) — **S106549368**

LEAK CLEANUP ACTIONS:

MN PCA ID:	Not reported
Leak Action Approval Date:	Not reported
Leak Action Begin Date:	Not reported
Leak Action End Date:	Not reported
TMSP Added:	Not reported
TMSP Last Update:	Not reported
Staff Id Last Update:	Not reported

LEAK GW INFO:

MN PCA ID:	219919
Dw Supply Contam:	Not reported
Free Product Observed:	Not reported
Free Product Thickness:	Not reported
Ground Water Contam:	S
GW Cleanup Goal:	0
Gw Exceeds Cleanup Goal:	Not reported
Cleanup Goal Achieved:	Not reported
Water Supply Exceeds Ral:	Not reported
Well Type Code:	Not reported
Impacted Aquifer Code:	Not reported
TMSP Added:	12/04/1999 14:07:32
TMSP Last Update:	11/04/2003 12:57:07
Staff Id Last Update:	RSUCHAN
Mtbe Present Now:	Not reported
Mtbe Present Historically:	Not reported
Mtbe High Ug Per Liter Char:	Not reported
Mtbe High Ug Per Liter Numb:	Not reported
Mtbe High Level Date:	Not reported
Free Product At Close:	Not reported
Staff Id Ass:	Not reported
PWS Well:	Not reported
Prot Flag:	Not reported
Sens Flag:	Not reported

LEAK PRODUCT RELEASED:

MN PCA ID:	219919
Prod Released Sequence Id:	322082
Leak Product:	Fuel Oil 1 and 2
Tmsp Added:	12/04/1999 14:04:33
Tmsp Last_updt:	05/04/2002 09:24:43
Staff Id Last Updt:	TANKS

WIMN:

Legislative District:	45B
Latitude:	44.99565537
Longitude:	-93.35663891
Activity:	Leak Site
MPCA Id:	7300
Major Watershed:	Mississippi River - Twin Cities
Coordinate Collection:	Address Matching House Number
Status:	Inactive

Click here to access Minnesota Pollution Control Agency:

8 **NA** — **MN SPILLS S106693813**
6014 GOLDEN VALLEY RD — **N/A**
GOLDEN VALLEY, MN

MN SPILL:

Program Id:	231540
Spill Date:	07/11/2001
Site ID:	0
Public Safety Spill ID:	6793
Interest Type:	Spill site
Interest Phone:	Not reported
Preferred Id:	55017
Interest Start Date:	07/12/2001
Interest End Date:	Not reported
Active:	Not reported
Tmsp Added:	07/12/2001
Tmsp Last Updt:	04/11/2007 08:23:05
Staff Id Last Updt:	RSUCHAN
Foreign Zone:	Not reported
Spill Closure Desc:	**Response Completed**
Sp Rep Code:	Not reported
Report Taken By:	3297
MPCA Project Manager:	3297
MPCA Involvement:	None
Spill Site Closure Date:	07/12/2001
Spill Rep Desc:	Bruce Denny
Spill Reported Date:	07/11/2001
Init Cause Code:	Equipment Failure
Init Cause Desc:	Not reported
Initial Source Code:	13
Priority:	Not reported
Rep Phone:	6123372085
Rep Name:	Bruce Denny
Rpt Taken By Duty Officer:	Not reported
Duty Officer Report No:	29209
Comments:	**No file** Per MR Denny ,A bushing leaked in transformer.

Affected Description:

Spill Inc. Affect Code:	Paved, Not Street

Product:

Program ID:	231540
Spill Incident Accuracy Id:	Not reported
Spill Product Code:	Mineral Oil
Spill Qty Units Code:	Gallons
Spill Incident Accuracy Code:	Known
Spill Released Qty:	2

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9 **FURNITURE PLACEMENT SERVICES** — **MN SPILLS S106693106**
6100 GOLDEN VALLEY RD — **N/A**
GOLDEN VALLEY, MN

MN SPILL:

Program Id:	178882
Spill Date:	03/31/1995
Site ID:	0
Public Safety Spill ID:	Not reported
Interest Type:	Spill site
Interest Phone:	Not reported
Preferred Id:	21086

FURNITURE PLACEMENT SERVICES (Continued) — **S106693106**

Interest Start Date:	03/21/1996
Interest End Date:	Not reported
Active:	Not reported
Tmsp Added:	03/21/1996
Tmsp Last Updt:	04/11/2007 08:23:03
Staff Id Last Updt:	RSUCHAN
Foreign Zone:	Not reported
Spill Closure Desc:	**Not reported**
Sp Rep Code:	Not reported
Report Taken By:	3236
MPCA Project Manager:	3236
MPCA Involvement:	Not reported
Spill Site Closure Date:	03/31/1995
Spill Rep Desc:	MARK CUKNLY
Spill Reported Date:	03/31/1995
Init Cause Code:	Truck/Vehicle Cargo
Init Cause Desc:	SEMI WENT OVER CLIFF
Initial Source Code:	Not reported
Priority:	4
Rep Phone:	Not reported
Rep Name:	Not reported
Rpt Taken By Duty Officer:	Not reported
Duty Officer Report No:	Not reported
Comments:	*NO FILE*

Product:

Program ID:	178882
Spill Incident Accuracy Id:	Not reported
Spill Product Code:	Light Fuel Oil and Diesel
Spill Qty Units Code:	Unknown
Spill Incident Accuracy Code:	Unknown
Spill Released Qty:	0

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10 **BELLBOY CORPORATION** — **MN LUST U000883694**
6005 GOLDEN VALLEY RD — **MN UST N/A**
GOLDEN VALLEY, MN 55422 — **MN WIMN**

LUST:

Leak ID:	3615
MNPCA ID:	216372
Site ID:	224090
Source:	CORE
Interest Type:	Leak Site
Interest Phone:	NO CORE PI PH.
Interest Start Date:	08/17/1995 11:31:26
Interest End Date:	Not reported
Release Discovered Date:	Not reported
Leak Reported Date:	12/03/1990
Leak Site:	Leak Site - Tank and Petroleum Contamination
File Archive Box:	26
File Archive Lot:	96/53
Soil Digout Date:	12/03/1990
Cubic Yards Excavated:	521
Conditional Closure Date:	10/31/1991
Complete Site Closure Date:	**10/16/1992 00:00:00**
Contaminated Soils Remaining:	Yes
Enforcement Action Begin Date:	12/10/1990

BELLBOY CORPORATION (Continued) **U000883694**

Lust Trust Eligible: No
Offsite Contamination: Unknown
Reimbursement Awarded: No
Std Letter Response Date: 01/15/1991
Surface Water Impact: Unknown
Utility Project Flag: No
TMSP Added: 12/04/1999 14:03:45
TMSP Last Update: 07/24/2006 13:52:50
Staff Id Last Update: JDIETZ
Release From AST: No
Release From UST: No
Tank Registration Status Code: U
VPIC Application Date: Not reported
VPIC Acres: Not reported
Addr Id: 275011
Township Name: Fort Snelling
Active Flag: No
Country Code: USA
Foreign State: Not reported
Foreign Zone: Not reported
State County Code: MN
Vapor Intrusion Checked Flag: Not reported
Soil Gas Data Collected Flag: Not reported
Soil Gas Action Level Flag: Not reported
Sub Slab Sample Collected Flag: Not reported
Indoor Air Collected Flag: Not reported
Vapor Intrusion Action Flag: Not reported
Vapor Intrusion Comments: Not reported
Soil Gas Data Comments: Not reported
Comments: Not reported

LEAK CLEANUP ACTIONS:
MN PCA ID: Not reported
Leak Action Approval Date: Not reported
Leak Action Begin Date: Not reported
Leak Action End Date: Not reported
TMSP Added: Not reported
TMSP Last Update: Not reported
Staff Id Last Update: Not reported

LEAK GW INFO:
MN PCA ID: 216372
Dw Supply Contam: Not reported
Free Product Observed: No
Free Product Thickness: Not reported
Ground Water Contam: No
GW Cleanup Goal: 0
Gw Exceeds Cleanup Goal: Not reported
Cleanup Goal Achieved: Not reported
Water Supply Exceeds Ral: Not reported
Well Type Code: Not reported
Impacted Aquifer Code: Not reported
TMSP Added: 12/04/1999 14:07:29
TMSP Last Update: 11/04/2003 12:57:06
Staff Id Last Update: RSUCHAN
Mtbe Present Now: Not reported
Mtbe Present Historically: Not reported
Mtbe High Ug Per Liter Char: Not reported

BELLBOY CORPORATION (Continued) **U000883694**

Mtbe High Ug Per Liter Numb: Not reported
Mtbe High Level Date: Not reported
Free Product At Close: Not reported
Staff Id Ass: Not reported
PWS Well: Not reported
Prot Flag: Not reported
Sens Flag: Not reported

LEAK PRODUCT RELEASED:
MN PCA ID: 216372
Prod Released Sequence Id: 34604
Leak Product: Fuel Oil 1 and 2
Tmsp Added: 03/13/2003 14:10:27
Tmsp Last_updt: 03/13/2003 14:10:27
Staff Id Last Updt: AMUSCH

UST:

TANK:
MPCA Tank Number: 001
Tank Registration Date: 01/03/1991 00:00:00
Tank Storage Capacity: 2000
Tank Dual Use: N
Tank Status: **Removed**
Tank Stored Product: Fuel Oil
Tank Construction Material: STI-P3
Tank Cathodic Protection: Anode
Piping Cathodic Protection: None
Piping Material: Wrapped Steel
Second Contain Tank: Wrapped Steel
Second Contain Pipe: Not reported
Tank Dispenser: Suction
Above/ Under Ground: Under Ground
AST Base Material: Not reported
Piping Material Description: Not reported
Unregulated Tank Registration Date: Not reported
Compartmental Tank Flag: Not reported
Heating Product Flag: Yes
Haz Waste Generator Id: Not reported
Product Replaced Date: Not reported
Sludge Disposal Facility: Not reported
Comments: Not reported
Date Added: 10/10/1999 10:56:58
Date Last Updated: 09/24/2008 14:05:40
Staff Id Who Did The Last Update: RSUCHAN
In Compliance: Yes
Serial Number: Not reported

TANK ACTION:
MPCA Tank Number: 001
Above Or Underground: Under Ground
Tank Action ID: 842193
Contractor Number: 604
Supervisor Number: Not reported
Tank Action: Install Tank
Action Date: 12/18/1990 00:00:00
Action Date Unknown: Not reported
Corrosion Expert Name: Not reported

BELLBOY CORPORATION (Continued) **U000883694**

Lab Flag: Not reported
Date Added: 05/05/2000 08:31:37
Date Last Updated: 05/04/2002 08:26:04
Staff Id Who Did The Last Update: TANKS

TANK COMPARTMENT:
MPCA Tank Number: 001
Above Or Underground: Under Ground
Compartment Number: 1
Tank Stored Product Code: 13
Tank Stored Product Desc: FUEL OIL
Compartment Cap: 2000
Heating: Unknown
Other Desc: Not reported
Date Added: 10/10/1999 10:58:25
Date Last Updated: 05/04/2002 08:26:04
Staff Id Who Did The Last Update: TANKS

INSTALL REMOVE:
MPCA Tank Number: 001
Number of Dispensers: Not reported
Tank Construction Material Code: Not reported
Piping Material: Not reported
Piping Material Desc: Not reported
Total Tank Capacity Quantity: 2000
Staff Id Who Did The Last Update: JHENRY
INSREM Product: Fuel Oil
INSREM Product Description: Not reported
INSREM Action ID: 904593
INSREM Action: Remove Tank
Action Completed Date: Not reported
Date Added: 07/11/2006 10:36:41
Date Last Updated: 07/11/2006 10:36:41

TANK:
MPCA Tank Number: 002
Tank Registration Date: 01/03/1991 00:00:00
Tank Storage Capacity: 4000
Tank Dual Use: N
Tank Status: **Removed**
Tank Stored Product: Fuel Oil
Tank Construction Material: Bare/Paint/Asph Coat Steel
Tank Cathodic Protection: None
Piping Cathodic Protection: None
Piping Material: Steel/Iron
Second Contain Tank: Steel/Iron
Second Contain Pipe: Not reported
Tank Dispenser: Suction
Above/ Under Ground: Under Ground
AST Base Material: Not reported
Piping Material Description: Not reported
Unregulated Tank Registration Date: Not reported
Compartmental Tank Flag: Not reported
Heating Product Flag: Yes
Haz Waste Generator Id: Not reported
Product Replaced Date: Not reported

BELLBOY CORPORATION (Continued) **U000883694**

Sludge Disposal Facility: Not reported
Comments: Not reported
Date Added: 10/10/1999 10:57:05
Date Last Updated: 09/24/2008 14:05:40
Staff Id Who Did The Last Update: RSUCHAN
In Compliance: Yes
Serial Number: Not reported

TANK ACTION:
MPCA Tank Number: 002
Above Or Underground: Under Ground
Tank Action ID: 851233
Contractor Number: 604
Supervisor Number: Not reported
Tank Action: Remove Tank
Action Date: 12/03/1990 00:00:00
Action Date Unknown: Not reported
Corrosion Expert Name: Not reported
Lab Flag: N
Date Added: 05/05/2000 08:31:01
Date Last Updated: 05/04/2002 08:26:04
Staff Id Who Did The Last Update: TANKS

MPCA Tank Number: 002
Above Or Underground: Under Ground
Tank Action ID: 842194
Contractor Number: Not reported
Supervisor Number: Not reported
Tank Action: Install Tank
Action Date: 01/01/1963 00:00:00
Action Date Unknown: Not reported
Corrosion Expert Name: Not reported
Lab Flag: Not reported
Date Added: 05/05/2000 08:31:37
Date Last Updated: 05/04/2002 08:26:04
Staff Id Who Did The Last Update: TANKS

TANK COMPARTMENT:
MPCA Tank Number: 002
Above Or Underground: Under Ground
Compartment Number: 1
Tank Stored Product Code: 13
Tank Stored Product Desc: FUEL OIL
Compartment Cap: 4000
Heating: Unknown
Other Desc: Not reported
Date Added: 10/10/1999 10:58:31
Date Last Updated: 05/04/2002 08:26:04
Staff Id Who Did The Last Update: TANKS

TABSITE:
Program Interest Id: 202996
Above Or Underground: Under Ground
Facility Code: 19
Indian Reservation: No
UST Registration Date: 01/03/1991 00:00:00

BELLBOY CORPORATION (Continued) **U000883694**

AST Registration Date: Not reported
Date Added: 07/23/1992 19:11:05
Date Last Updated: 05/23/2003 09:21:03
Staff Id Who Did The Last Update: SYS
Max Monthly Gallons: Not reported
Vapor Recovery Installed: Unknown
Vapor Notify Required: Unknown

LATLONG:
Program Id: 202996
Latlong ID: 139743
Latitude Degrees: 44
Latitude Minutes: 59
Latitude Seconds: 30.69
Longitude Degrees: -93
Longitude Minutes: 21
Longitude Seconds: 24.04
Collection Date: 05/22/2008 13:18:20
Latlong Description: Not reported
TMSP Added: 05/22/2008 13:18:15
Date Last Updated: 05/22/2008 13:18:31
Staff Id Last Updated: MAPTOOL
Coord Source Type: Not reported
Org Name Source: Not reported

WIMN:
Legislative District: 45B
Latitude: 44.99185897
Longitude: -93.35667913
Activity: Multiple Activities
MPCA Id: Multiple Activities
Major Watershed: Mississippi River - Twin Cities
Coordinate Collection: Digitized - Map Tool
Status: Active

Click here to access Minnesota Pollution Control Agency:

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10 **DEBOER INC** **MN SPILLS S107558253**
GOLDEN VALLEY RD AND ZANE AVE **N/A**
GOLDEN VALLEY, MN

MN SPILL:
Program Id: 176369
Spill Date: 08/24/1993
Site ID: 0
Public Safety Spill ID: Not reported
Interest Type: Spill site
Interest Phone: Not reported
Preferred Id: 18357
Interest Start Date: 03/21/1996
Interest End Date: Not reported
Active: Not reported
Tmsp Added: 03/21/1996
Tmsp Last Updt: 04/11/2007 08:22:55
Staff Id Last Updt: RSUCHAN
Foreign Zone: Not reported
Spill Closure Desc: Not reported

DEBOER INC (Continued) **S107558253**

Sp Rep Code: Not reported
Report Taken By: 3297
MPCA Project Manager: 3297
MPCA Involvement: Not reported
Spill Site Closure Date: 01/01/1996
Spill Rep Desc: GOLDEN VALLEY PD
Spill Reported Date: 08/24/1993
Init Cause Code: Truck/Vehicle Cargo
Init Cause Desc: TRUCK HIT BRIDGE
Initial Source Code: Not reported
Priority: 4
Rep Phone: Not reported
Rep Name: Not reported
Rpt Taken By Duty Officer: Not reported
Duty Officer Report No: Not reported
Comments: Not reported

Product:
Program ID: 176369
Spill Incident Accuracy Id: Not reported
Spill Product Code: Other (Described In Remarks)
Spill Qty Units Code: Unknown
Spill Incident Accuracy Code: Unknown
Spill Released Qty: 0

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11 **RANDAL POOL AND SPA** **MN SPILLS S106691166**
6200 GOLDEN VALLEY RD **N/A**
GOLDEN VALLEY, MN

MN SPILL:
Program Id: 174446
Spill Date: 05/20/1992
Site ID: 0
Public Safety Spill ID: Not reported
Interest Type: Spill site
Interest Phone: Not reported
Preferred Id: 16287
Interest Start Date: 03/21/1996
Interest End Date: Not reported
Active: Not reported
Tmsp Added: 03/21/1996
Tmsp Last Updt: 04/11/2007 08:22:53
Staff Id Last Updt: RSUCHAN
Foreign Zone: Not reported
Spill Closure Desc: Not reported
Sp Rep Code: Not reported
Report Taken By: 4106
MPCA Project Manager: 4106
MPCA Involvement: Not reported
Spill Site Closure Date: 05/20/1992
Spill Rep Desc: MARK KUHNEY
Spill Reported Date: 05/20/1992
Init Cause Code: Other
Init Cause Desc: ACID USED TO REMOVE
Initial Source Code: Not reported
Priority: 4
Rep Phone: Not reported

RANDAL POOL AND SPA (Continued) **S106691166**

Rep Name: Not reported
Rpt Taken By Duty Officer: Not reported
Duty Officer Report No: Not reported
Comments: HCL used to strip paint from swimming pools was drained into the\\nstorm sewer which enters a creek.

Product:
Program ID: 174446
Spill Incident Accuracy Id: Not reported
Spill Product Code: Chemical Acidic
Spill Qty Units Code: Unknown
Spill Incident Accuracy Code: Unknown
Spill Released Qty: 0

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12 **VALLEY CREEK OFFICE PARK** **MN LAST S102357077**
GOLDEN VALLEY RD **MN SPILLS N/A**
GOLDEN VALLEY, MN 55122

LAST:
Site ID: 246476
Leak Id: 10963
MN PCA ID: 223387
Leak Site: Both Leak and Property Transfer Site
File Archive Box: Not reported
File Archive Lot: Not reported
Soil Digout Date: Not reported
Cubic Yards Excavated: Not reported
Cond Closure Date: Not reported
Complete Site Closure Date: 05/11/2007 00:00:00
Contaminated Soils Remaining: Yes
Enforcement Action Begin Dt: Not reported
Last Trust Eligible: No
Offsite Contamination: No
Reimbursement Awarded: No
Release Discovered Date: 10/09/1997
Leak Reported Date: 11/19/1997
Std Letter Response Date: Not reported
Surface Water Impact: No
Utility Project Flag: No
TMSP Added: 12/04/1999 14:03:51
TMSP Last Update: 06/20/2007 16:31:12
Staff Id Last Update: MKOPLIT
Release From UST: Yes
Release From LUST: No
Tank Registration Status Code: FS
VPIC Application Date: Not reported
VPIC Acres: 2
Addr Id: 249792
Township Name: Fort Snelling
Active Flag: No
Country Code: USA
Foreign State: Not reported
Foreign Zone: Not reported
State County Code: MN
Interest Type: Leak Site
Interest Phone: NO CORE PI PH.
Interest Start Date: 03/26/1999 00:00:00

VALLEY CREEK OFFICE PARK (Continued) **S102357077**

Interest End Date: Not reported
Vapor Intrusion Checked Flag: No
Soil Gas Data Collected Flag: No
Soil Gas Action Level Flag: Not reported
Sub Slab Sample Collected Flag: Not reported
Indoor Air Collected Flag: Not reported
Vapor Intrusion Action Flag: Not reported
Vapor Intrusion Comments: Not reported
Soil Gas Data Comments: Not reported
Source: CORE
Comments: Not reported

LEAK CLEANUP ACTIONS:
MN PCA ID: Not reported
Leak Action Approval Date: Not reported
Leak Action Begin Date: Not reported
Leak Action End Date: Not reported
TMSP Added: Not reported
TMSP Last Update: Not reported
Staff Id Last Update: Not reported

LEAK GW INFO:
MN PCA ID: 223387
Dw Supply Contam: No
Free Product Observed: No
Free Product Thickness: Not reported
Ground Water Contam: Yes
GW Cleanup Goal: 0
Gw Exceeds Cleanup Goal: Not reported
Cleanup Goal Achieved: Not reported
Water Supply Exceeds Ral: No
Well Type Code: Not reported
Impacted Aquifer Code: 3
TMSP Added: 12/04/1999 14:07:34
TMSP Last Update: 05/15/2007 11:04:51
Staff Id Last Update: MKOPLIT
Mtbe Present Now: Not reported
Mtbe Present Historically: Not reported
Mtbe High Ug Per Liter Char: Not reported
Mtbe High Ug Per Liter Numb: Not reported
Mtbe High Level Date: Not reported
Free Product At Close: No
Staff Id Ass: 3369
PWS Well: N
Prot Flag: No
Sens Flag: No

LEAK PRODUCT RELEASED:
MN PCA ID: 223387
Prod Released Sequence Id: 325201
Leak Product: Fuel Oil 1 and 2
Tmsp Added: 12/04/1999 14:04:37
Tmsp Last_updt: 05/04/2002 09:37:15
Staff Id Last Updt: TANKS
MN PCA ID: 223387
Prod Released Sequence Id: 323848
Leak Product: Gasoline, Type Unknown
Tmsp Added: 12/04/1999 14:04:35
Tmsp Last_updt: 05/04/2002 09:37:15

VALLEY CREEK OFFICE PARK (Continued) **S102357077**

Staff Id Last Updt: TANKS

MN SPILL:
Program Id: 181780
Spill Date: 08/22/1996
Site ID: 0
Public Safety Spill ID: Not reported
Interest Type: Spill site
Interest Phone: Not reported
Preferred Id: 24238
Interest Start Date: 08/22/1996
Interest End Date: Not reported
Active: Not reported
Tmsp Added: 08/22/1996
Tmsp Last Updt: 04/11/2007 08:22:57
Staff Id Last Updt: RSUCHAN
Foreign Zone: Not reported
Spill Closure Desc: **Refer To Water Quality**
Sp Rep Code: Refer To Local/County Gov.
Report Taken By: 3297
MPCA Project Manager: 3297
MPCA Involvement: Not reported
Spill Site Closure Date: 08/22/1996
Spill Rep Desc: MCES
Spill Reported Date: 08/22/1996
Init Cause Code: Equipment Failure
Init Cause Desc: EQUIPMENT FAILURE
Initial Source Code: 6
Priority: 1
Rep Phone: Not reported
Rep Name: Not reported
Rpt Taken By Duty Officer: Not reported
Duty Officer Report No: Not reported
Comments: BROKEN INTERCEPTOR PIPE

Action:
Spill Action Code: 3
Spill Action Person: Not reported
Spill Action Date: Not reported
Tmsp Added: 08/22/1996 15:35:35
Tmsp Last Updt: 05/04/2002 07:15:15
Staff Id Last Updt: TANKS

Affected Description:
Spill Inc. Affect Code: Wetland

Product:
Program ID: 181780
Spill Incident Accuracy Id: Not reported
Spill Product Code: Sewage Or Wastewater
Spill Qty Units Code: Unknown
Spill Incident Accuracy Code: Unknown
Spill Released Qty: 0

13 **CENTERPOINT ENERGY - GV PROPANE** **MN TIER 2** **S107727749**
6161 GOLDEN VALLEY RD **N/A**
GOLDEN VALLEY, MN 55422

TIER 2:
ERC Number: 270700019
Year: 2004
Facility Status: Not reported
Facility Phone: Not reported
Facility Email: Not reported
Facility Web: Not reported
Facility MNCP: Not reported
SIC: Not reported
NAICS: Not reported
Dunn Brad Num: Not reported
Time Created: Not reported
Signed By: Not reported
Title: Not reported
Signed Date: Not reported
Attach Site Plan: Not reported
Attach Coord Abbr: Not reported
Attach Safeguard Info: Not reported
Attach ERP: Not reported
Hardcopy Attachments: Not reported
Extension Site Plan: Not reported
Extension Coord Abbr: Not reported
Extension Safeguard Info: Not reported
Extension ERP: Not reported
Last Updated ERP: Not reported
Last Tested ERP: Not reported
Last Reviewed ERP: Not reported
VZone Primary: Not reported
VZone Secondary: Not reported
Modified Date: Not reported
FIPS County: Not reported
Latitude/Longitude: /
User Name: Not reported
TRIFID: Not reported
CMFCL Record ID: Not reported
SEPC Approved Date ERP: Not reported
Client System ID: Not reported
Own Country: Not reported
Site Plan: No
Confidential Location: No
Status 302: Not reported
Status 312: Not reported
Emergency Contact Name1: Not reported
Emergency Contact Name2: Not reported
Emergency Contact Name3: Not reported
Emergency Contact Name4: Not reported
Emergency Contact 24hr Phone1: Not reported
Emergency Contact 24hr Phone2: Not reported
Emergency Contact 24hr Phone3: Not reported
Emergency Contact 24hr Phone4: Not reported

Facility Id: 270700019
CAS Number: 74-98-6
Chemical Id: Not reported
Chemical Name: PROPANE (LIQUIFIED PETROLEUM GAS)

CENTERPOINT ENERGY - GV PROPANE (Continued) **S107727749**

EHS Name: Not reported
Is EHS: Not reported
Is EHS More than TPQ: Not reported
Is Containing EHS: Not reported
How Chemical Is Stored: A24
Max Daily Amt Code: Not reported
Avg Daily Amt Code: Not reported
Storage Container Type: Not reported
Storage Pressure Class: Not reported
Storage Temperature Class: Not reported
Storage Location: Not reported
Is Storage Confidential Location: Not reported
Remark: site plan 89

13 **CENTERPOINT ENERGY - GOLDEN VALLEY** **RCRA-CESQG** **1000312486**
6161 GOLDEN VALLEY RD **FINDS** **MND980701205**
MINNEAPOLIS, MN **WI MANIFEST**

RCRA-CESQG:
Date form received by agency: 12/08/2004
Facility name: CENTERPOINT ENERGY - GOLDEN VALLEY
Facility address: 6161 GOLDEN VALLEY RD
MINNEAPOLIS, MN 55422
EPA ID: MND980701205
Mailing address: 501 W 61ST ST
MINNEAPOLIS, MN 55419
Contact: MARILEE DOHERTY
Contact address: 501 W 61ST ST
MINNEAPOLIS, MN 55419
Contact country: US
Contact telephone: (612) 861-8671
Contact email: Not reported
EPA Region: 05
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:
Owner/operator name: NAME NOT REPORTED
Owner/operator address: ADDRESS NOT REPORTED
CITY NOT REPORTED, AK 99998
Owner/operator country: Not reported
Owner/operator telephone: (312) 555-1212

CENTERPOINT ENERGY - GOLDEN VALLEY (Continued) **1000312486**

Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: CENTERPOINT ENERGY
Owner/operator address: PO BOX 59038
MINNEAPOLIS, MN 55459
Owner/operator country: US
Owner/operator telephone: (612) 861-8671
Legal status: Other
Owner/Operator Type: Operator
Owner/Op start date: 07/28/1999
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 12/08/2004
Facility name: CENTERPOINT ENERGY - GOLDEN VALLEY
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 11/30/2004
Facility name: CENTERPOINT ENERGY - GOLDEN VALLEY
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 11/30/2004
Facility name: CENTERPOINT ENERGY - GOLDEN VALLEY
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 10/23/2002
Facility name: CENTERPOINT ENERGY - GOLDEN VALLEY
Classification: Conditionally Exempt Small Quantity Generator

Hazardous Waste Summary:
Waste code: D000
Waste name: Not Defined

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS

CENTERPOINT ENERGY - GOLDEN VALLEY (Continued) **1000312486**

CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D003
Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

Waste code: F002
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F005
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

FINDS:

CENTERPOINT ENERGY - GOLDEN VALLEY (Continued) **1000312486**

Registry ID: 110008821178

Environmental Interest/Information System
The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

CRITERIA AND HAZARDOUS AIR POLLUTANT INVENTORY

MN-DELTA (Minnesota - Permitting, Compliance, And Enforcement Information Management System) facilitates the issuance of permits and manages compliance.

WI MANIFEST:

Year:	04
EPA ID:	MND980701205
FID:	0
ACT Code:	201
ACT Status:	A
ACT Code 1:	201
ACT Name:	HW Generator - Large
Contact First Name:	Not reported
Contact Last Name:	Not reported
Contact Title:	Not reported
Contact Address:	Not reported
Contact State:	Not reported
Contact City:	Not reported
Contact Zip:	Not reported
Contact Telephone:	Not reported
Contact Extention:	Not reported
Contact Email Address:	Not reported
Shipped:	-
Year:	Not reported
Manifest DOC ID:	Not reported
Copy Type:	Not reported
Gen EPA ID:	Not reported
Gen Date:	Not reported
TSD Date:	Not reported
TSD EPA ID:	Not reported
GEN Copy Revd Date:	Not reported
TSG Copy Revd Date:	Not reported
Transport:	-
Year:	Not reported
Manifest Doc ID:	Not reported
Transporter EPA ID:	Not reported
Transport Order Num:	Not reported
Transport Date:	Not reported

CENTERPOINT ENERGY - GOLDEN VALLEY (Continued) **1000312486**

Waste:

Year:	Not reported
Manifest DOC ID:	Not reported
Waste Page No:	Not reported
Waste Line No:	Not reported
Waste Code:	Not reported
Waste Amount:	Not reported
Unit of Measure:	Not reported
Waste LBS:	Not reported

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13 **CENTERPOINT ENERGY - GOLDEN VALLEY** **MN SRS S107733997**
6161 GOLDEN VALLEY RD **MN LS N/A**
MINNEAPOLIS, MN 55422 **MN VIC**
MN AIRS
MN TIER 2
MN WIMN

MN SRS:

Facility ID:	VP6902R
SEC Address:	Not reported
Link Id:	5313
Facility Type:	Other
Active:	False
Pay Complete:	False
MPCA Region:	Metro
Size Acres:	1
HRS Score:	0
Enforcement Lead Agency:	MPCA
Federal Defferal Plot:	False
Petroleum Brownfields Prog?:	False
Emergency:	False
Site Classification:	False
RD/RA:	False
RL/FS:	False
Fund financed:	False
Npl:	False
Plp:	False
District:	Metro
Program Referred from:	Not reported
Program Interest:	VIC
Physical Location:	none
Natural Source damage:	False
Clean up Cost:	Not reported
Indian Reservation:	False
Reserve Name:	Not reported
MPCA Owned Wells at site:	False
Created By:	PJensen
Date Created:	07/26/2000
Date Last Updated:	08/02/2000
Federal Facility:	False
Primary Funding Source:	Not reported
EPA Id:	Not reported
MPCA Id:	Not reported
Alpha Sort:	Not reported
Legal Distt:	45B
Congressional Distt:	5

CENTERPOINT ENERGY - GOLDEN VALLEY (Continued) **S107733997**

Public Land Survey Method:	Not reported
Map Scale For PLS Locational Data:	Not reported
Township 2:	Not reported
Range:	Not reported
PLS Township Suffix:	Not reported
section:	Not reported
PLS Qtr Section (160 Acres):	Not reported
PLS Qtr-Qtr Section (40 Acres):	Not reported
Pls Qtr-Qtr-Qtr Section (10 Acres):	Not reported
Pls Qtr-Qtr-Qtr-Qtr Secion (2.5 Acres):	Not reported
Quad:	Not reported
NAD Number:	83
Desc Of UTM Coord Pt:	Not reported
UTM Coord Pt Data Source:	Not reported
Org Providing UTM Coord Point Data:	Not reported
npcapgmac:	Not reported
Utm Coord Pt Data Collection Method:	Not reported
Date Of Utm Coord Pt Data Collection:	Not reported
COL Date Qual:	Not reported
Map Scale:	Not reported
verifmeth:	Not reported
horizref:	Not reported
Utm Source:	2
Utm Method:	I1
Utm Scale:	A
Utm Accuracy:	Not reported
Utm East:	471789.8125
Utm North:	4982143.5
Utm Zone:	15
Basin Code:	2
Major Watershed:	20
Minor Watershed:	Not reported
Public Land Survey Method 2:	Not reported
Map Scale For PLS Locational Data 2:	Not reported
Township 2:	Not reported
Range 2:	Not reported
PLS Township Suffix 2:	Not reported
Section 2:	Not reported
PLS Qtr Section (160 Acres) 2:	Not reported
PLS Qtr-Qtr Section (40 Acres) 2:	Not reported
PLS Qtr-Qtr Section (10 Acres) 2:	Not reported
PLS Qtr-Qtr Section (2.5 Acres) 2:	Not reported
Quad 2:	Not reported
File Location:	Archival Storage
VIC Application GIS:	False
Notes:	This site is comprised of 18 flow meter stations along a natural gas pipe line.
Contact Type:	Former Staff TA
Company Name:	MPCA
Contact Address:	Lafayette Rd
Contact Address 2:	Not reported
Contact City,St,Zip:	St. Paul, MN 551554194
Contact Province:	Not reported
Contact Country:	Not reported
Contact Postal code:	Not reported
Contact Phone:	(651) 757-7827
Contact Phone Ext:	Not reported

CENTERPOINT ENERGY - GOLDEN VALLEY (Continued) **S107733997**

Contact Fax: Not reported
Contact E-mail: Not reported
Contact Cell Phone: Not reported
Contact Information Last Updated: 2001-04-03 00:00:00
Misc Contact Info: Not reported
Receive Invoice: F
Staff Id Num: 3209

Contact Type: Staff PL/PM (Project Leader/Project Manager)s
Company Name: MPCA
Contact Address: 520 Lafayette Rd
Contact Address 2: Not reported
Contact City,St,Zip: St. Paul, MN 551554194
Contact Province: Not reported
Contact Country: Not reported
Contact Postal code: Not reported
Contact Phone: 6522967297
Contact Phone Ext: Not reported
Contact Fax: Not reported
Contact E-mail: Not reported
Contact Cell Phone: Not reported
Contact Information Last Updated: 2000-07-27 00:00:00
Misc Contact Info: Not reported
Receive Invoice: F
Staff Id Num: 3387

Contact Type: Other
Company Name: Not reported
Contact Address: Not reported
Contact Address 2: Not reported
Contact City,St,Zip: MN
Contact Province: Not reported
Contact Country: Not reported
Contact Postal code: Not reported
Contact Phone: Not reported
Contact Phone Ext: Not reported
Contact Fax: Not reported
Contact E-mail: Not reported
Contact Cell Phone: Not reported
Contact Information Last Updated: 2000-07-27 00:00:00
Misc Contact Info: Not reported
Receive Invoice: F
Staff Id Num: Not reported

Contact Type: Staff TA (Technical Analyst)
Company Name: MPCA
Contact Address: 520 Lafayette Rd.
Contact Address 2: Not reported
Contact City,St,Zip: St. Paul, MN 551554194
Contact Province: Not reported
Contact Country: Not reported
Contact Postal code: Not reported
Contact Phone: (651) 757-7715
Contact Phone Ext: Not reported
Contact Fax: 651-296-9707
Contact E-mail: hans.neve@state.mn.us
Contact Cell Phone: Not reported

CENTERPOINT ENERGY - GOLDEN VALLEY (Continued) **S107733997**

Contact Information Last Updated: 2001-04-03 00:00:00
Misc Contact Info: Not reported
Receive Invoice: F
Staff Id Num: 3357

Contaminant Id: Mercury
Contaminated Media: Soil
Req Cleanup Concluded: 0.69999999
Cleanup Lvl Measure Units: ug/L
Basis For Req Cleanup Lvl: SLV (Soil Leaching Value)
Max Residual Contamination: 0
Date Info Last Updated: 2001-07-30 00:00:00

Facid: VP6902R
Event: Remedial Action
Additional Information: by Minnegasco for soil contaminated with hg
Start Date: 2000-07-28 00:00:00
End Date: 2000-08-05 00:00:00
Planned Start Date: Not reported
Planned End Date: Not reported
Date Info Last Updated: Not reported
Record Number: 12248

Facid: VP6902R
Event: VIC Program Participation Dates (Start/End)
Additional Information: None Entered
Start Date: 2000-07-26 00:00:00
End Date: 2001-08-19 00:00:00
Planned Start Date: Not reported
Planned End Date: Not reported
Date Info Last Updated: 2000-07-27 00:00:00
Record Number: 9335

Facid: VP6902R
Event: Limited No Action Letter Sent
Additional Information: for hg contaminated soil inside meter building
Start Date: Not reported
End Date: 2001-07-25 00:00:00
Planned Start Date: Not reported
Planned End Date: Not reported
Date Info Last Updated: 2001-07-30 00:00:00
Record Number: 11663

Facid: VP6902R
GW Recepts Prot by Rem Actn: Not reported
Ecological receptors present: False
Type of ecological receptors: Not reported
Acres of contaminated soil: Not reported
Volume of contaminated soil: 7
Acres of surface water impacted: Not reported
Acres of wetland impacted: Not reported
Acres of sediment impacted: Not reported
GW Plume Area Acres: Not reported
Cleanup Conducted: True
Acres of Contam Soil remediate: Not reported
Volume of Soil Cleaned: 7
Municipal wells contamd: Not reported

CENTERPOINT ENERGY - GOLDEN VALLEY (Continued) **S107733997**

Dom wells contam: Not reported
People Impct SW intake contam: Not reported
Drums Revolved from site: Not reported
Yr Soil Remediated: Not reported
Acres of Soil w/ Restrict Access: Not reported
Yr IC remedy complete: Not reported
Yr GW remedy completed: Not reported
Year GWIC completed: Not reported
Acres of wetland of sediment remediated: Not reported
Public financing: False
Assurance help: True
Land use Classfn At Site: Industrial
Land use Vicinity Of Site: Residential
Deed notif Present On Site: False
Restrictive Covenant Present: False
Restrictions: Not reported
GW Pump and Treat Used at site: False
Quaternary Perched: False
Quaternary Water Table: False
Quaternary Confined: False
Cretaceous: False
Plattville: False
St. peter: False
Prairie Duchien: False
Jordan: False
Ironton/Galesville: False
Mt Simon Hinckley: False
Precambrian Undefferentiated: False
Other/Unknown Aquifier: False
Date Info Last Updated: Not reported
Inst Control Info Updated: Not reported
Inst Control Filed Location: Not reported
SW Classification (Primary): Not reported
SW Classification (Secondary): Not reported
Miscellaneous: remedition of mercury contamianted soil in side building only.
SW Comments: Not reported

MN LS:
Link ID: 5313
EPA ID: Not reported
MPCA ID: VP6902R
Method: I1
CERCLIS: No
National Priorities List: No
PLP: No
Voluntary Cleanup & Investigation: Yes
RCRA Treatment Storage & Disposal: No
RCRA Generator: No
Solid Waste Permit: No
Dumps: No
No Further Remedial Action Planned: No
Delisted From PLP By MPCA: No
LCP: No
Brownfield: No
Entity Type: VIC

CENTERPOINT ENERGY - GOLDEN VALLEY (Continued) **S107733997**

MN Voluntary Investigation Cleanup Program:
Facility ID: VP6902R
Facility Type: Other
Facility Address 2: Not reported
Core Program Interest Id: 336746
Link Id: 5313
Active: False
Pay Complete: False
MPCA Region: Metro
Size Acres: 1
HRS Score: 0
Enforcement Lead Agency: MPCA
Federal Defferal Plot: False
Petroleum Brownfields Prog?: False
Emergency: False
Site Classification: False
RD/RA: False
RL/FS: False
Fund financed: False
Npl: False
Plp: False
District: Metro
Program Reffered from: Not reported
Program Interest: VIC
Physical Location: none
Natural Source damage: False
Clean up Cost: Not reported
Indian Reservation: False
Reservation Name: Not reported
MPCA Owned Wells at site: False
Created By: PJensen
Date Created: 07/26/2000
Date Last Updated: 08/02/2000
Federal Facility: False
Primary Funding Source: Not reported
EPA Id: Not reported
MPCA Id: Not reported
Alpha Sort: Not reported
Legal Distt: 45B
Congressional Dist: 5
Scale Of Map Used Pls Loc Data: Not reported
Township: Not reported
Range: Not reported
Range East West: Not reported
Section: Not reported
Pls Qtr Section (160 Acres): Not reported
Pls Qtr Qtr Section (40 Acres): Not reported
Pls Qtr-Qtr-Qtr Section (10 Acres): Not reported
Pls Qtr-Qtr-Qtr-Qtr Section (2.5 Acres): Not reported
Quad: Not reported
NAD Number: 83
Desc Of UTM Coord Pt: Not reported
UTM Coord Pt Data Source: Not reported
Org Providing The UTM Coord Point Data: Not reported
Method For Loc Public Land Survey: Not reported
Method Of Utm Coord Pt Data Collection: Not reported
Date Of Utm Coord Pt Data Collection: Not reported

CENTERPOINT ENERGY - GOLDEN VALLEY (Continued) **S107733997**

COL Date Qual: Not reported
Map Scale: Not reported
Verification Method: Not reported
horizref: Not reported
Utm Source: 2
Utm Method: I1
Utm Scale: A
Utm Accuracy: Not reported
Utm East: 471789.8125
Utm North: 4982143.5
Utm Zone: 15
Basin Code: 2
Major Watershed: 20
Major Watershed: Not reported
Method For Loc Public Land Survey: Not reported
Scale Of Map Used Pls Loc Data: Not reported
Township 2: Not reported
Range 2: Not reported
Range East West: Not reported
Section 2: Not reported
Pls Qtr Section (160 Acres) 2: Not reported
Pls Qtr Qtr Section (40 Acres)2: Not reported
Pls Qtr Qtr Qtr Section (10 Acres)2: Not reported
Pls Qtr Qtr Qtr Qtr Section (2.5 Acres) 2: Not reported
Quad 2: Not reported
File Location: Archival Storage
GIS Application GIS: False
Notes: This site is comprised of 18 flow meter stations along a natural gas pipe line.
Contact Type: Former Staff TA
Company Name: MPCA
Contact Address: Lafayette Rd
Contact Address 2: Not reported
Contact City,St,Zip: St. Paul, MN 551554194
Contact Province: Not reported
Contact Country: Not reported
Contact Postal code: Not reported
Contact Phone: (651) 757-7827
Contact Phone Ext: Not reported
Contact Fax: Not reported
Contact E-mail: Not reported
Contact Cell Phone: Not reported
Contact Information Last Updated: 2001-04-03 00:00:00
Misc Contact Info: Not reported
Receive Invoice: F
Staff Id Num: 3209

Contact Type: Staff PL/PM (Project Leader/Project Manager)s
Company Name: MPCA
Contact Address: 520 Lafayette Rd
Contact Address 2: Not reported
Contact City,St,Zip: St. Paul, MN 551554194
Contact Province: Not reported
Contact Country: Not reported
Contact Postal code: Not reported
Contact Phone: 6522967297
Contact Phone Ext: Not reported

CENTERPOINT ENERGY - GOLDEN VALLEY (Continued) **S107733997**

Contact Fax: Not reported
Contact E-mail: Not reported
Contact Cell Phone: Not reported
Contact Information Last Updated: 2000-07-27 00:00:00
Misc Contact Info: Not reported
Receive Invoice: F
Staff Id Num: 3387

Contact Type: Other
Company Name: Not reported
Contact Address: Not reported
Contact Address 2: Not reported
Contact City,St,Zip: MN
Contact Province: Not reported
Contact Country: Not reported
Contact Postal code: Not reported
Contact Phone: Not reported
Contact Phone Ext: Not reported
Contact Fax: Not reported
Contact E-mail: Not reported
Contact Cell Phone: Not reported
Contact Information Last Updated: 2000-07-27 00:00:00
Misc Contact Info: Not reported
Receive Invoice: F
Staff Id Num: Not reported

Contact Type: Staff TA (Technical Analyst)
Company Name: MPCA
Contact Address: 520 Lafayette Rd.
Contact Address 2: Not reported
Contact City,St,Zip: St. Paul, MN 551554194
Contact Province: Not reported
Contact Country: Not reported
Contact Postal code: Not reported
Contact Phone: (651) 757-7715
Contact Phone Ext: Not reported
Contact Fax: 651-296-9707
Contact E-mail: hans.neve@state.mn.us
Contact Cell Phone: Not reported
Contact Information Last Updated: 2001-04-03 00:00:00
Misc Contact Info: Not reported
Receive Invoice: F
Staff Id Num: 3357

Contaminant Id: Mercury
Contaminated Media: Soil
Req Cleanup Concluded: 0.69999999
Cleanup Lvl Measure Units: ug/L
Basis For Req Cleanup Lvl: SLV (Soil Leaching Value)
Max Residual Contamination: 0
Date Info Last Updated: 2001-07-30 00:00:00

Facid: VP6902R
Event: Remedial Action
Additional Information: by Minnegasco for soil contaminated with hg
Start Date: 2000-07-28 00:00:00
End Date: 2000-08-05 00:00:00

CENTERPOINT ENERGY - GOLDEN VALLEY (Continued) **S107733997**

Planned Start Date: Not reported
Planned End Date: Not reported
Date Info Last Updated: Not reported
Record Number: 12248

Facid: VP6902R
Event: VIC Program Participation Dates (Start/End)
Additional Information: None Entered
Start Date: 2000-07-26 00:00:00
End Date: 2001-08-19 00:00:00
Planned Start Date: Not reported
Planned End Date: Not reported
Date Info Last Updated: 2000-07-27 00:00:00
Record Number: 9335

Facid: VP6902R
Event: Limited No Action Letter Sent
Additional Information: for hg contaminated soil inside meter building
Start Date: Not reported
End Date: 2001-07-25 00:00:00
Planned Start Date: Not reported
Planned End Date: Not reported
Date Info Last Updated: 2001-07-30 00:00:00
Record Number: 11663

Facid: VP6902R
GW Recepts Prot by Rem Actn: Not reported
Ecological receptors present: False
Type of ecological receptors: Not reported
Acres of contaminated soil: Not reported
Volume of contaminated soil: 7
Acres of surface water impacted: Not reported
Acres of wetland impacted: Not reported
Acres of sediment impacted: Not reported
GW Plume Area Acres: Not reported
Cleanup Conducted: True
Acres of Contam Soil remediate: Not reported
Volume of Soil Cleaned: 7
Municipal wells contamd: Not reported
Dom wells contam: Not reported
People Impct SW intake contam: Not reported
Drums Revolved from site: Not reported
Yr Soil Remediated: Not reported
Acres of Soil w/ Restrict Access: Not reported
Yr IC remedy complete: Not reported
Yr GW remedy completed: Not reported
Year GWIC completed: Not reported
Acres of wetland of sediment remediated: Not reported
Public financing: False
Assurance help: True
Land use Classfn At Site: Industrial
Land use Vicinity Of Site: Residential
Deed notif Present On Site: False
Restrictive Covenant Present: False
Restrictions: Not reported
GW Pump and Treat Used at site: False
Quaternary Perched: False

CENTERPOINT ENERGY - GOLDEN VALLEY (Continued) **S107733997**

Quaternary Water Table: False
Quaternary Confined: False
Cretaceous: False
Plattville: False
St. peter: False
Prairie Duchien: False
Jordan: False
Ironton/Galesville: False
Mt Simon Hinckley: False
Precambrian Undefferentiated: False
Other/Unknown Aquifier: False
Date Info Last Updated: Not reported
Inst Control Info Updated: Not reported
Inst Control Filed Location: Not reported
SW Classification (Primary): Not reported
SW Classification (Secondary): Not reported
Miscellaneous: remedition of mercury contamianted soil in side building only.
SW Comments: Not reported

MN AIRS:
Facility ID: 05300887
File Number: 2509C
Fedral/State: Not reported
Mail Address: 501 W 61st St
Mail City,St,Zip: Minneapolis, MN 55419
Contact Name: Ms. Marilee Doherty
Contact Phone: (612) 861-8671
Contact Fax: (612) 861-8699
Latitude: 44 Deg 59 Min 31.8322 Sec
Longitude: -93 Deg 21 Min 28.3648 Sec
SIC Code: 4923
SIC Code 2: Not reported
NAICS: 22121
Corbon Monixide Tons/Yr: 1
Nitrogen Oxides Tons/Yr: 2
Lead Tons/Yr: 0
Particulate Matter Tons/Yr: 0
PM10 Tons/Yr: 0
Sulfur Dioxide Tons/Yr: 0
Volatile Organic Compounds Amount: 0
Permip Program Type: Registration
Action ID: 1
Effective Start: 11/03/1995
Expiration Date: Not reported
REG PMT Option: C
Emissions Year: 2009

Facility ID: 05300887
File Number: 2509C
Fedral/State: Not reported
Mail Address: 501 W 61st St
Mail City,St,Zip: Minneapolis, MN 55419
Contact Name: Ms. Marilee Doherty
Contact Phone: (612) 861-8671
Contact Fax: (612) 861-8699
Latitude: 44 Deg 59 Min 31.8322 Sec

CENTERPOINT ENERGY - GOLDEN VALLEY (Continued) **S107733997**

Longitude: -93 Deg 21 Min 28.3648 Sec
SIC Code: 4923
SIC Code 2: Not reported
NAICS: 22121
Corbon Monixide Tons/Yr: 1
Nitrogen Oxides Tons/Yr: 2
Lead Tons/Yr: 0
Particulate Matter Tons/Yr: 0
PM10 Tons/Yr: 0
Sulfur Dioxide Tons/Yr: 0
Volatile Organic Compounds Amount: 0
Permip Program Type: Registration
Action ID: 1
Effective Start: 11/03/1995
Expiration Date: Not reported
REG PMT Option: C
Emissions Year: 2008

Facility ID: 05300887
File Number: 2509C
Fedral/State: Not reported
Mail Address: 501 W 61st St
Mail City,St,Zip: Minneapolis, MN 55419
Contact Name: Ms. Marilee Doherty
Contact Phone: (612) 861-8671
Contact Fax: (612) 861-8699
Latitude: 44 Deg 59 Min 31.8322 Sec
Longitude: -93 Deg 21 Min 28.3648 Sec
SIC Code: 4923
SIC Code 2: Not reported
NAICS: 22121
Corbon Monixide Tons/Yr: 1
Nitrogen Oxides Tons/Yr: 2
Lead Tons/Yr: 0
Particulate Matter Tons/Yr: 0
PM10 Tons/Yr: 0
Sulfur Dioxide Tons/Yr: 0
Volatile Organic Compounds Amount: 0
Permip Program Type: Registration
Action ID: 1
Effective Start: 11/03/1995
Expiration Date: Not reported
REG PMT Option: C
Emissions Year: 2007

TIER 2:
ERC Number: 4258
Year: 2011
Facility Status: ACTIVE
Facility Phone: Not reported
Facility Email: Not reported
Facility Web: Not reported
Facility MNCP: Not reported
SIC: 4924
NAICS: 221210
Dunn Brad Num: Not reported
Time Created: Not reported

CENTERPOINT ENERGY - GOLDEN VALLEY (Continued) **S107733997**

Signed By: Not reported
Title: Not reported
Signed Date: Not reported
Attach Site Plan: Not reported
Attach Coord Abbr: Not reported
Attach Safeguard Info: Not reported
Attach ERP: Not reported
Hardcopy Attachments: Not reported
Extension Site Plan: Not reported
Extension Coord Abbr: Not reported
Extension Safeguard Info: Not reported
Extension ERP: Not reported
Last Updated ERP: Not reported
Last Tested ERP: Not reported
Last Reviewed ERP: Not reported
VZone Primary: Not reported
VZone Secondary: Not reported
Modified Date: Not reported
FIPS County: Not reported
Latitude/Longitude: /
User Name: Not reported
TRIFID: Not reported
CMFCL Record ID: Not reported
SEPC Approved Date ERP: Not reported
Client System ID: 270700019
Own Country: Not reported
Site Plan: Not reported
Confidential Location: Not reported
Status 302: UNKNOWN
Status 312: UNKNOWN
Emergency Contact Name1: ANDREW ROCKWELL
Emergency Contact Name2: THROUGHPUT MGMT
Emergency Contact Name3: Not reported
Emergency Contact Name4: Not reported
Emergency Contact 24hr Phone1: 6123215404
Emergency Contact 24hr Phone2: 6123215404
Emergency Contact 24hr Phone3: Not reported
Emergency Contact 24hr Phone4: Not reported

Facility Id: 4258
CAS Number: 74986
Chemical Id: 2132
Chemical Name: PROPANE (LIQUIFIED PETROLEUM GAS)
EHS Name: Not reported
Is EHS: No
Is EHS More than TPQ: No
Is Containing EHS: No
How Chemical Is Stored: Not reported
Max Daily Amt Code: 6
Avg Daily Amt Code: 6
Storage Container Type: A
Storage Pressure Class: 2
Storage Temperature Class: 4
Storage Location: 40 ABOVE GROUND TANKS
Is Storage Confidential Location: No
Remark: Not reported

CENTERPOINT ENERGY - GOLDEN VALLEY (Continued) **S107733997**

Chemicals:
Facility Id: 4258
Chemical Desc ID: 2132
CAS No: 74986
Chemical Name: PROPANE (LIQUIFIED PETROLEUM GAS)
EHS Name: Not reported
Trade Secret: No
Pure: Yes
Mixture: No
Solid: No
Liquid: Yes
Gas: Yes
Extremely Haz Substance: No
Fire: Yes
Pressure: Yes
Reactivity: No
Delayed Health Affects: No
Immediate Health Affects: Yes
Max Daily Amt: 06
Avg Daily Amt: 06
Onsite Days: 365
Max Daily Amt Exact: 1919720
Avg Daily Amt Exact: 1866561
Modified Date: Not reported
VZone Primary: No
VZone Secondary: No
EHS More Than TPQ: No
MSDS Attachment ID: No

Storage:
Storage Chem Desc ID: 2132
Storage Container Type: A
Storage Pressure: 2
Storage Temp: 4
Storage Location: 40 ABOVE GROUND TANKS
Storage ID: 10666
Storage Confidential: No

Facility Id: 4258
CAS Number: 74986
Chemical Id: 2132
Chemical Name: PROPANE (LIQUIFIED PETROLEUM GAS)
EHS Name: Not reported
Is EHS: No
Is EHS More than TPQ: No
Is Containing EHS: No
How Chemical Is Stored: Not reported
Max Daily Amt Code: 6
Avg Daily Amt Code: 6
Storage Container Type: A
Storage Pressure Class: 2
Storage Temperature Class: 4
Storage Location: Not reported
Is Storage Confidential Location: No
Remark: Not reported

CENTERPOINT ENERGY - GOLDEN VALLEY (Continued) **S107733997**

Chemicals:
Facility Id: 4258
Chemical Desc ID: 2132
CAS No: 74986
Chemical Name: PROPANE (LIQUIFIED PETROLEUM GAS)
EHS Name: Not reported
Trade Secret: No
Pure: Yes
Mixture: No
Solid: No
Liquid: Yes
Gas: Yes
Extremely Haz Substance: No
Fire: Yes
Pressure: Yes
Reactivity: No
Delayed Health Affects: No
Immediate Health Affects: Yes
Max Daily Amt: 06
Avg Daily Amt: 06
Onsite Days: 365
Max Daily Amt Exact: 1919720
Avg Daily Amt Exact: 1866561
Modified Date: Not reported
VZone Primary: No
VZone Secondary: No
EHS More Than TPQ: No
MSDS Attachment ID: No

Storage:
Storage Chem Desc ID: 2132
Storage Container Type: A
Storage Pressure: 2
Storage Temp: 4
Storage Location: 40 ABOVE GROUND TANKS
Storage ID: 10666
Storage Confidential: No

Contact:
Contact ID: 8516
Contact Type: T2EC
Contact Name: ANDREW ROC
Contact Title: SUPERVISOR
Sort Order: 1

Contact:
Contact ID: 8517
Contact Type: T2EC
Contact Name: THROUGHPUT
Contact Title: NONE
Sort Order: 2

CENTERPOINT ENERGY - GOLDEN VALLEY (Continued) **S107733997**

WIMN:
- Legislative District: 45B
- Latitude: 44.99217605
- Longitude: -93.35787963
- Activity: Multiple Activities
- MPCA Id: Multiple Activities
- Major Watershed: Mississippi River - Twin Cities
- Coordinate Collection: Digitized-DRG
- Status: Active

Click here to access Minnesota Pollution Control Agency:

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13 **CENTERPOINT ENERGY - GV PROPANE** **MN TIER 2** **S108072229**
6161 GOLDEN VALLEY RD **N/A**
GOLDEN VALLEY, MN 55422

TIER 2:
- ERC Number: 4258
- Year: 2005
- Facility Status: ACTIVE
- Facility Phone: 6128618671
- Facility Email: marilee.doherty@centerpointenergy.com
- Facility Web: Not reported
- Facility MNCP: Not reported
- SIC Code: 4924
- NAICS: Not reported
- Dunn Brad Num: Not reported
- Owner Name: CENTERPOINT ENERGY
- Owner Phone: 6128618671
- Owner Address: 501 W 61ST ST
- Owner City: MINNEAPOLIS
- Owner State: MN
- Owner Zip: 55419
- Mailing Name: CENTERPOINT ENERGY - GV PROPANE
- Mailing Street: 501 WEST 61ST ST
- Mailing PO BOX: Not reported
- Mailing City/State/Zip: MINNEAPOLIS, MN 55419
- Mailing Attn: MARILEE DOHERTY
- Time Created: Not reported
- Signed By: MARILEE DOHERTY
- Title: ENVIRONMENTAL SPECIALIST
- Signed Date: 2006-02-10
- Attach Site Plan: No
- Attach Coord Abbr: Yes
- Attach Safeguard Info: No
- Attach ERP: No
- Hardcopy Attachments: No
- Extension Site Plan: Not reported
- Extension Coord Abbr: Not reported
- Extension Safeguard Info: Not reported
- Extension ERP: Not reported
- Last Updated ERP: Not reported
- Last Tested ERP: Not reported
- Last Reviewed ERP: Not reported
- VZone Primary: Not reported
- VZone Secondary: Not reported
- Modified Date: 2006-02-10

CENTERPOINT ENERGY - GV PROPANE (Continued) **S108072229**

- FIPS County: 27027
- Latitude/Longitude: 44.992000579834/93.3580017089844
- User Name: mjdoherty
- TRIFID: Not reported
- CMFCL Record ID: Not reported
- SEPC Approved Date ERP: Not reported
- Client System ID: 270700019
- Own Country: US
- Site Plan: Not reported
- Confidential Location: Not reported
- Status 302: Not reported
- Status 312: Not reported
- Emergency Contact Name1: Not reported
- Emergency Contact Name2: Not reported
- Emergency Contact Name3: Not reported
- Emergency Contact Name4: Not reported
- Emergency Contact 24hr Phone1: Not reported
- Emergency Contact 24hr Phone2: Not reported
- Emergency Contact 24hr Phone3: Not reported
- Emergency Contact 24hr Phone4: Not reported

- Facility Id: 4258
- CAS Number: Not reported
- Chemical Id: Not reported
- Chemical Name: Not reported
- EHS Name: Not reported
- Is EHS: Not reported
- Is EHS More than TPQ: Not reported
- Is Containing EHS: Not reported
- How Chemical Is Stored: Not reported
- Max Daily Amt Code: Not reported
- Avg Daily Amt Code: Not reported
- Storage Container Type: Not reported
- Storage Pressure Class: Not reported
- Storage Temperature Class: Not reported
- Storage Location: Not reported
- Is Storage Confidential Location: Not reported
- Remark: Not reported

- Facility Id: 4258
- CAS Number: Not reported
- Chemical Id: Not reported
- Chemical Name: Not reported
- EHS Name: Not reported
- Is EHS: Not reported
- Is EHS More than TPQ: Not reported
- Is Containing EHS: Not reported
- How Chemical Is Stored: Not reported
- Max Daily Amt Code: Not reported
- Avg Daily Amt Code: Not reported
- Storage Container Type: Not reported
- Storage Pressure Class: Not reported
- Storage Temperature Class: Not reported
- Storage Location: Not reported
- Is Storage Confidential Location: Not reported
- Remark: Not reported

CENTERPOINT ENERGY - GV PROPANE (Continued) **S108072229**

- Facility Id: 4258
- CAS Number: 74986
- Chemical Id: 2132
- Chemical Name: PROPANE (LIQUIFIED PETROLEUM GAS)
- EHS Name: Not reported
- Is EHS: No
- Is EHS More than TPQ: No
- Is Containing EHS: No
- How Chemical Is Stored: Not reported
- Max Daily Amt Code: 06
- Avg Daily Amt Code: 06
- Storage Container Type: A
- Storage Pressure Class: 2
- Storage Temperature Class: 4
- Storage Location: 40 ABOVE GROUND TANKS
- Is Storage Confidential Location: No
- Remark: Not reported

Chemicals:
- Facility Id: 4258
- Chemical Desc ID: 2132
- CAS No: 74986
- Chemical Name: PROPANE (LIQUIFIED PETROLEUM GAS)
- EHS Name: Not reported
- Trade Secret: No
- Pure: Yes
- Mixture: No
- Solid: No
- Liquid: Yes
- Gas: Yes
- Extremely Haz Substance: No
- Fire: Yes
- Pressure: Yes
- Reactivity: No
- Delayed Health Affects: No
- Immediate Health Affects: Yes
- Max Daily Amt: 06
- Avg Daily Amt: 06
- Onsite Days: 365
- Max Daily Amt Exact: 1919720
- Avg Daily Amt Exact: 1866561
- Modified Date: Not reported
- VZone Primary: No
- VZone Secondary: No
- EHS More Than TPQ: No
- MSDS Attachment ID: No

Storage:
- Storage Chem Desc ID: 2132
- Storage Container Type: A
- Storage Pressure: 2
- Storage Temp: 4
- Storage Location: 40 ABOVE GROUND TANKS
- Storage ID: 10666
- Storage Confidential: No

CENTERPOINT ENERGY - GV PROPANE (Continued) **S108072229**

- Facility Id: 4258
- CAS Number: 74986
- Chemical Id: 2132
- Chemical Name: PROPANE (LIQUIFIED PETROLEUM GAS)
- EHS Name: Not reported
- Is EHS: No
- Is EHS More than TPQ: No
- Is Containing EHS: No
- How Chemical Is Stored: Not reported
- Max Daily Amt Code: 6
- Avg Daily Amt Code: 6
- Storage Container Type: A
- Storage Pressure Class: 2
- Storage Temperature Class: 4
- Storage Location: 40 ABOVE GROUND TANKS
- Is Storage Confidential Location: No
- Remark: Not reported

Chemicals:
- Facility Id: 4258
- Chemical Desc ID: 2132
- CAS No: 74986
- Chemical Name: PROPANE (LIQUIFIED PETROLEUM GAS)
- EHS Name: Not reported
- Trade Secret: No
- Pure: Yes
- Mixture: No
- Solid: No
- Liquid: Yes
- Gas: Yes
- Extremely Haz Substance: No
- Fire: Yes
- Pressure: Yes
- Reactivity: No
- Delayed Health Affects: No
- Immediate Health Affects: Yes
- Max Daily Amt: 06
- Avg Daily Amt: 06
- Onsite Days: 365
- Max Daily Amt Exact: 1919720
- Avg Daily Amt Exact: 1866561
- Modified Date: Not reported
- VZone Primary: No
- VZone Secondary: No
- EHS More Than TPQ: No
- MSDS Attachment ID: No

Storage:
- Storage Chem Desc ID: 2132
- Storage Container Type: A
- Storage Pressure: 2
- Storage Temp: 4
- Storage Location: 40 ABOVE GROUND TANKS
- Storage ID: 10666
- Storage Confidential: No

CENTERPOINT ENERGY - GV PROPANE (Continued) **S108072229**

Facility Id: 4258
CAS Number: 74986
Chemical Id: 2132
Chemical Name: PROPANE (LIQUIFIED PETROLEUM GAS)
EHS Name: Not reported
Is EHS: No
Is EHS More than TPQ: No
Is Containing EHS: No
How Chemical Is Stored: Not reported
Max Daily Amt Code: 6
Avg Daily Amt Code: 6
Storage Container Type: A
Storage Pressure Class: 2
Storage Temperature Class: 4
Storage Location: 40 ABOVE GROUND TANKS
Is Storage Confidential Location: No
Remark: Not reported

Chemicals:
Facility Id: 4258
Chemical Desc ID: 2132
CAS No: 74986
Chemical Name: PROPANE (LIQUIFIED PETROLEUM GAS)
EHS Name: Not reported
Trade Secret: No
Pure: Yes
Mixture: No
Solid: No
Liquid: Yes
Gas: Yes
Extremely Haz Substance: No
Fire: Yes
Pressure: Yes
Reactivity: No
Delayed Health Affects: No
Immediate Health Affects: Yes
Max Daily Amt: 06
Avg Daily Amt: 06
Onsite Days: 365
Max Daily Amt Exact: 1919720
Avg Daily Amt Exact: 1866561
Modified Date: Not reported
VZone Primary: No
VZone Secondary: No
EHS More Than TPQ: No
MSDS Attachment ID: No

Storage:
Storage Chem Desc ID: 2132
Storage Container Type: A
Storage Pressure: 2
Storage Temp: 4
Storage Location: 40 ABOVE GROUND TANKS
Storage ID: 10666
Storage Confidential: No

CENTERPOINT ENERGY - GV PROPANE (Continued) **S108072229**

Facility Id: 4258
CAS Number: 74986
Chemical Id: 2132
Chemical Name: PROPANE (LIQUIFIED PETROLEUM GAS)
EHS Name: Not reported
Is EHS: No
Is EHS More than TPQ: No
Is Containing EHS: No
How Chemical Is Stored: Not reported
Max Daily Amt Code: 6
Avg Daily Amt Code: 6
Storage Container Type: A
Storage Pressure Class: 2
Storage Temperature Class: 4
Storage Location: 40 ABOVE GROUND TANKS
Is Storage Confidential Location: No
Remark: Not reported

Chemicals:
Facility Id: 4258
Chemical Desc ID: 2132
CAS No: 74986
Chemical Name: PROPANE (LIQUIFIED PETROLEUM GAS)
EHS Name: Not reported
Trade Secret: No
Pure: Yes
Mixture: No
Solid: No
Liquid: Yes
Gas: Yes
Extremely Haz Substance: No
Fire: Yes
Pressure: Yes
Reactivity: No
Delayed Health Affects: No
Immediate Health Affects: Yes
Max Daily Amt: 06
Avg Daily Amt: 06
Onsite Days: 365
Max Daily Amt Exact: 1919720
Avg Daily Amt Exact: 1866561
Modified Date: Not reported
VZone Primary: No
VZone Secondary: No
EHS More Than TPQ: No
MSDS Attachment ID: No

Storage:
Storage Chem Desc ID: 2132
Storage Container Type: A
Storage Pressure: 2
Storage Temp: 4
Storage Location: 40 ABOVE GROUND TANKS
Storage ID: 10666
Storage Confidential: No

CENTERPOINT ENERGY - GV PROPANE (Continued) **S108072229**

Contact:
Contact ID: 8516
Contact Type: T2EC
Contact Name: ANDREW ROC
Contact Title: SUPERVISOR
Sort Order: 1

Contact:
Contact ID: 8517
Contact Type: T2EC
Contact Name: THROUGHPUT
Contact Title: NONE
Sort Order: 2

Click this hyperlink while viewing on your computer to access
1 additional MN_TIER2: record(s) in the EDR Site Report.

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14 **VALLEY CREEK OFFICE PARK** **MN WIMN** **S110443623**
GOLDEN VALLEY RD **N/A**
GOLDEN VALLEY, MN 55122

WIMN:
Legislative District: 45B
Latitude: 44.99165725
Longitude: -93.35960387
Activity: Leak Site
MPCA Id: 10963
Major Watershed: Mississippi River - Twin Cities
Coordinate Collection: Interpolation Unknown
Status: Inactive

Click here to access Minnesota Pollution Control Agency:

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15 **CENTER POINT ENERGY GAS LINE** **MN SPILLS** **S108494089**
GOLDEN VALLEY RD AND DOUGLAS DR **N/A**
GOLDEN VALLEY, MN

MN SPILL:
Program Id: 432518
Spill Date: 05/01/2007
Site ID: 0
Public Safety Spill ID: 21081
Interest Type: Spill site
Interest Phone: Not reported
Preferred Id: 69877
Interest Start Date: 05/30/2007
Interest End Date: Not reported
Active: Not reported
Tmsp Added: 05/30/2007
Tmsp Last Updt: 05/30/2007 17:20:12
Staff Id Last Updt: SLEE
Foreign Zone: Not reported
Spill Closure Desc: 27
Sp Rep Code: Refer To Air Quality

CENTER POINT ENERGY GAS LINE (Continued) **S108494089**

Report Taken By: 3093
MPCA Project Manager: 3093
MPCA Involvement: None
Spill Site Closure Date: 05/30/2007
Spill Rep Desc: Bill Mord
Spill Reported Date: 05/01/2007
Init Cause Code: Equipment Failure
Init Cause Desc: Not reported
Initial Source Code: 9
Priority: Not reported
Rep Phone: 7637544154
Rep Name: Bill Mord
Rpt Taken By Duty Officer: Not reported
Duty Officer Report No: 88561
Comments: Caller was reporting that they were reenergizing a 175 psi main after construction work with a temporary weld cap 15 feet from the weld cap a style 38 cupling failed seperated the pipe and caused release. At the time of the relese there was 140 psi of gas in the pipe, crews shut in pipe so there was no more pressure. Currently valves shut off everything back to normal. There was a loud noise and there have been a lot of calls. There was no fire or damage no injuries. This is not a spill this is a pipeline.

Affected Description:
Spill Inc. Affect Code: Air

Product:
Program ID: 432518
Spill Incident Accuracy Id: Not reported
Spill Product Code: Nat. Gas, Propane, Other
Spill Qty Units Code: Unknown
Spill Incident Accuracy Code: Unknown
Spill Released Qty: Not reported

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16 **HMIRS** **95100838**
1100 HAMPSHIRE AVENUE S **N/A**
BLOOMINGTON, MN

Click this hyperlink while viewing on your computer to access
additional HMIRS detail in the EDR Site Report.

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16 **HMIRS** **95060832**
1100 HAMPSHIRE AVENUE S **N/A**
BLOOMINGTON, MN

Click this hyperlink while viewing on your computer to access
additional HMIRS detail in the EDR Site Report.

MAP FINDINGS

Map ID / Direction / Distance / Distance (ft.)	Site	Database(s)	EDR ID Number / EPA ID Number
16	**1111 HAMPSHIRE AVENUE** **BLOOMINGTON, MN**	**HMIRS**	**92050389** **N/A**

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

Count: 30 records

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
GOLDEN VALLEY	S104408994	VALLEY SQUARE #3 (WESLEY COMMONS)	8XXX GOLDEN VALLEY ROAD	55427	MN SRS, MN VIC
GOLDEN VALLEY	S103909092	GLENWOOD JUNCTION #1	N OF HWY 55 AT INDIANA AVE.	55422	MN SRS, MN VIC
GOLDEN VALLEY	S106548183	DAHLBERG DRIVE	N OF HIGHWAY 55	55422	MN LUST, MN BROWNFIELDS
GOLDEN VALLEY	S107730828	PACKAGING CORPORATION OF AMERICA	4300 OLSON HWY	55422	MN TIER 2
GOLDEN VALLEY	1011511346	NORTHRUP KING CO	7500 OLSON MEMORIAL HWY GOLDEN VALLEY MN 55427	55427	ICIS
GOLDEN VALLEY	S104408972	VALLEY SQUARE	NW QUADRANT OF WINNETKA AVENUE AND	55427	MN SRS, MN VIC
MINNEAPOLIS	S108667060	MNDOT I35W AND TH62 CORRIDOR PROJECT	HIGHWAY 35W AND HIGHWAY 62		MN BROWNFIELDS
MINNEAPOLIS	S105576368	MINNEAPOLIS LIME WASTE STORAGE FACILITY	36TH AVE & MARSHALL ST NE		MN SWF/LF
MINNEAPOLIS	S103813930	HENNEPIN COUNTY ROAD 37	4TH STREET SE FROM 10TH AVE SE TO OAK ST		MN SRS, MN VIC
MINNEAPOLIS	S105576315	HENNEPIN CO LEAF RECYCLING/MINNETONKA	HIGHWAY 5 & HIGHWAY 37		MN SWF/LF
MINNEAPOLIS	S106905225	MNDOT TH 55 AND 62 INTERCHANGE	HIGHWAY 55 & HIGHWAY 62		MN BROWNFIELDS
MINNEAPOLIS	U003974212	PHASE 3 HERITAGE PARK/NORTHSIDE REDEV.	HIGHWAY 55 & LYNDALE AVE	55441	MN UST
MINNEAPOLIS	1016050015	NINE MILE CREEK WATERSHED DISTRICT	ADDRESS UNKNOWN		FINDS
MINNEAPOLIS	S105588320	TWIN CITIES AIR FORCE RESERVE BASE	BETWEEN HWY 55-494 AND RIVER		MN DEL PLP
MINNEAPOLIS	S106550487	PARKING LOT	NW CORNER OF LASALLE & 10TH ST S		MN LUST
MINNEAPOLIS	1014469590	YO	1111 DOUGLAS DR N	55422	RCRA-CESQG
MINNEAPOLIS	1007057600	FREMONT AVENUE CORRIDOR/BASSETT CREEK	FREMONT AVENUE NORTH		FINDS
MINNEAPOLIS	S106547935	BASSETT CREEK UTILITY PROJECT	GLENN RD & I94		MN LUST
MINNEAPOLIS	S104822744	NSP @ MINNEHAH CREEK	HIAWATHA IN MINNEHAH PARK		MN SPILLS
MINNEAPOLIS	S113869957	U OF M - OLD MAIN HEATING PLANT	1180 MAIN ST SE		MN SPILLS
MINNEAPOLIS	U003851186	FIRE TRAINING FACILITY/MAC/MSP	MINNEAPOLIS SAINT PAUL INTL AIRPORT	55450	MN UST
MINNEAPOLIS	U003851188	REGIONAL AIRLINES TERM C/MAC/MSP	MINNEAPOLIS SAINT PAUL INTL AIRPORT	55450	MN UST
MINNEAPOLIS	U003851190	ELECTRIC SHOP- MAC/MSP	MINNEAPOLIS SAINT PAUL INTL AIRPORT	55450	MN UST
MINNEAPOLIS	U003851187	FORMER FIRE TRAINING FAC-MAC/MSP	MINNEAPOLIS SAINT PAUL INTL AIRPORT	55450	MN UST
MINNEAPOLIS	S113904331	DELTA AIRLINES AT MSP AIRPORT MAIN TERMINAL	MSP AIRPORT		MN SPILLS
MINNEAPOLIS	1004535305	NORTHWEST AUTOMATIC PRODUCTS	555 OLSON HWY		FTTS, HIST FTTS, FINDS
MINNEAPOLIS	S106704823	HENNEPIN CO LEAF RECYCLING/EDEN PRAIRIE	SEE LOCATION DESCRIPTION		MN SWF/LF
MINNEAPOLIS	S108412451	SHERWOOD BREKKE PROPERTY	517 THRU 519 OAK ST SE		MN LAST
MINNEAPOLIS	S107926368	LONG YEAR SITE	900 WASHINGTON AVE SE		MN SRS, MN LUST, MN SPILLS, MN VIC
ROBBINSDALE	S108078694	CSAH 81	COUNTY STATE AID HIGHWAY 81	55422	MN SRS, MN VIC

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

FEDERAL RECORDS

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/26/2013
Date Data Arrived at EDR: 05/09/2013
Date Made Active in Reports: 07/10/2013
Number of Days to Update: 62

Source: EPA
Telephone: N/A
Last EDR Contact: 11/11/2013
Next Scheduled EDR Contact: 01/20/2014
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 04/26/2013
Date Data Arrived at EDR: 05/09/2013
Date Made Active in Reports: 07/10/2013
Number of Days to Update: 62

Source: EPA
Telephone: N/A
Last EDR Contact: 11/11/2013
Next Scheduled EDR Contact: 01/20/2014
Data Release Frequency: Quarterly

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 04/26/2013
Date Data Arrived at EDR: 05/09/2013
Date Made Active in Reports: 07/10/2013
Number of Days to Update: 62

Source: EPA
Telephone: N/A
Last EDR Contact: 11/11/2013
Next Scheduled EDR Contact: 01/20/2014
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 04/26/2013
Date Data Arrived at EDR: 05/29/2013
Date Made Active in Reports: 08/09/2013
Number of Days to Update: 72

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 11/11/2013
Next Scheduled EDR Contact: 12/09/2013
Data Release Frequency: Quarterly

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 04/26/2013
Date Data Arrived at EDR: 05/29/2013
Date Made Active in Reports: 08/09/2013
Number of Days to Update: 72

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 11/11/2013
Next Scheduled EDR Contact: 12/09/2013
Data Release Frequency: Quarterly

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/06/2013
Date Data Arrived at EDR: 04/25/2013
Date Made Active in Reports: 05/10/2013
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 11/13/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Varies

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 07/11/2013
Date Data Arrived at EDR: 08/08/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 36

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 10/02/2013
Next Scheduled EDR Contact: 01/13/2014
Data Release Frequency: Quarterly

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 07/11/2013
Date Data Arrived at EDR: 08/08/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 36

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 10/02/2013
Next Scheduled EDR Contact: 01/13/2014
Data Release Frequency: Quarterly

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 07/11/2013
Date Data Arrived at EDR: 08/08/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 36

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 10/02/2013
Next Scheduled EDR Contact: 01/13/2014
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 07/11/2013
Date Data Arrived at EDR: 08/08/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 36

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 10/02/2013
Next Scheduled EDR Contact: 01/13/2014
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 07/11/2013
Date Data Arrived at EDR: 08/08/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 36

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 10/02/2013
Next Scheduled EDR Contact: 01/13/2014
Data Release Frequency: Varies

RCRA NonGen / NLR: RCRA - Non Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 07/11/2013
Date Data Arrived at EDR: 08/08/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 36

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 10/02/2013
Next Scheduled EDR Contact: 01/13/2014
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 06/17/2013
Date Data Arrived at EDR: 06/21/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 104

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 09/10/2013
Next Scheduled EDR Contact: 12/23/2013
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 06/17/2013
Date Data Arrived at EDR: 06/21/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 104

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 09/10/2013
Next Scheduled EDR Contact: 12/23/2013
Data Release Frequency: Varies

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 01/17/2013
Date Made Active in Reports: 02/15/2013
Number of Days to Update: 29

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 10/01/2013
Next Scheduled EDR Contact: 01/13/2014
Data Release Frequency: Annually

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 55

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 10/01/2013
Next Scheduled EDR Contact: 01/13/2014
Data Release Frequency: Annually

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 11/06/2013
Next Scheduled EDR Contact: 02/17/2014
Data Release Frequency: Varies

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 08/06/2013
Date Data Arrived at EDR: 09/11/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 22

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 09/04/2013
Next Scheduled EDR Contact: 12/16/2013
Data Release Frequency: Quarterly

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 06/24/2013
Date Data Arrived at EDR: 06/25/2013
Date Made Active in Reports: 08/09/2013
Number of Days to Update: 45

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 09/24/2013
Next Scheduled EDR Contact: 01/08/2014
Data Release Frequency: Semi-Annually

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 10/18/2013
Next Scheduled EDR Contact: 01/27/2014
Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 02/26/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 15

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 09/10/2013
Next Scheduled EDR Contact: 12/23/2013
Data Release Frequency: Varies

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 08/20/2013
Date Data Arrived at EDR: 08/23/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 70

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 11/18/2013
Next Scheduled EDR Contact: 03/03/2014
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 06/30/2013
Date Data Arrived at EDR: 08/07/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 57

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 09/30/2013
Next Scheduled EDR Contact: 01/13/2014
Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 04/26/2013
Date Data Arrived at EDR: 06/11/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 143

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 09/13/2013
Next Scheduled EDR Contact: 12/23/2013
Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 05/28/2013
Next Scheduled EDR Contact: 09/09/2013
Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: No Update Planned

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/01/2013
Date Data Arrived at EDR: 09/05/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 28

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 09/05/2013
Next Scheduled EDR Contact: 12/16/2013
Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/31/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 44

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 08/30/2013
Next Scheduled EDR Contact: 12/09/2013
Data Release Frequency: Annually

TSCA: Toxic Substances Control Act
Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2006
Date Data Arrived at EDR: 09/29/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 64
Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 09/24/2013
Next Scheduled EDR Contact: 01/08/2014
Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 11/21/2013
Next Scheduled EDR Contact: 03/10/2014
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 11/21/2014
Next Scheduled EDR Contact: 03/10/2014
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems
Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77
Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 07/20/2011
Date Data Arrived at EDR: 11/10/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 61
Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 10/09/2014
Next Scheduled EDR Contact: 01/27/2014
Data Release Frequency: Quarterly

PADS: PCB Activity Database System
PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 06/01/2013
Date Data Arrived at EDR: 07/17/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 107
Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 10/18/2013
Next Scheduled EDR Contact: 01/27/2014
Data Release Frequency: Annually

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/22/2013
Date Data Arrived at EDR: 08/02/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 91
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 09/10/2013
Next Scheduled EDR Contact: 12/23/2013
Data Release Frequency: Quarterly

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 09/30/2013
Date Data Arrived at EDR: 10/09/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 23
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 10/09/2013
Next Scheduled EDR Contact: 01/20/2014
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System
Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 03/08/2013
Date Data Arrived at EDR: 03/21/2013
Date Made Active in Reports: 07/10/2013
Number of Days to Update: 111
Source: EPA
Telephone: (312) 353-2000
Last EDR Contact: 09/11/2013
Next Scheduled EDR Contact: 12/23/2013
Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System
RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35
Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

RMP: Risk Management Plans
When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 05/08/2012
Date Data Arrived at EDR: 05/25/2012
Date Made Active in Reports: 07/10/2012
Number of Days to Update: 46
Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Varies

BRS: Biennial Reporting System
The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 02/26/2013
Date Made Active in Reports: 04/19/2013
Number of Days to Update: 52
Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 08/26/2013
Next Scheduled EDR Contact: 12/09/2013
Data Release Frequency: Biennially

US HIST CDL: National Clandestine Laboratory Register
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/01/2007
Date Data Arrived at EDR: 11/19/2008
Date Made Active in Reports: 03/30/2009
Number of Days to Update: 131
Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 11/01/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Varies

COAL ASH DOE: Sleam-Electric Plan Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 10/15/2013
Next Scheduled EDR Contact: 01/27/2014
Data Release Frequency: Varies

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55
Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 10/17/2013
Next Scheduled EDR Contact: 01/27/2014
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 08/17/2010
Date Data Arrived at EDR: 01/03/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 77
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 09/13/2013
Next Scheduled EDR Contact: 12/23/2013
Data Release Frequency: Varies

FEDERAL FACILITY: Federal Facility Site Information listing
A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 10/09/2012
Date Made Active in Reports: 12/20/2012
Number of Days to Update: 72
Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 10/11/2013
Next Scheduled EDR Contact: 01/20/2014
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites
A listing of former lead smelter site locations.

Date of Government Version: 01/29/2013
Date Data Arrived at EDR: 02/14/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 13
Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 09/24/2013
Next Scheduled EDR Contact: 01/20/2014
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites
A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US FIN ASSUR: Financial Assurance Information
All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 03/04/2013
Date Data Arrived at EDR: 03/15/2013
Date Made Active in Reports: 05/10/2013
Number of Days to Update: 56

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 11/18/2013
Next Scheduled EDR Contact: 03/03/2014
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST
EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 06/30/2013
Date Data Arrived at EDR: 08/13/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 11/15/2013
Next Scheduled EDR Contact: 02/24/2014
Data Release Frequency: Quarterly

US AIRS MINOR: Air Facility System Data
A listing of minor source facilities.

Date of Government Version: 01/23/2013
Date Data Arrived at EDR: 01/30/2013
Date Made Active in Reports: 05/10/2013
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-5962
Last EDR Contact: 09/30/2013
Next Scheduled EDR Contact: 01/13/2014
Data Release Frequency: Annually

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)
The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 01/23/2013
Date Data Arrived at EDR: 01/30/2013
Date Made Active in Reports: 05/10/2013
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-5962
Last EDR Contact: 09/30/2013
Next Scheduled EDR Contact: 01/13/2014
Data Release Frequency: Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing
The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 11/18/2013
Next Scheduled EDR Contact: 02/03/2014
Data Release Frequency: Varies

2020 COR ACTION: 2020 Corrective Action Program List
The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 11/11/2011
Date Data Arrived at EDR: 05/18/2012
Date Made Active in Reports: 05/25/2012
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 11/15/2013
Next Scheduled EDR Contact: 02/24/2014
Data Release Frequency: Varies

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 04/15/2013
Date Data Arrived at EDR: 07/03/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 72

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 10/04/2013
Next Scheduled EDR Contact: 01/13/2014
Data Release Frequency: Quarterly

STATE AND LOCAL RECORDS

SHWS: Superfund Site Information Listing
The SRS database includes all sites that the State Superfund Program is dealing with or has dealt with. The Superfund Program identifies, investigates and determines appropriate cleanup plans for abandoned or uncontrolled hazardous waste sites where a release or potential release of a hazardous substance poses a risk to human health or the environment.

Date of Government Version: 08/29/2013
Date Data Arrived at EDR: 09/12/2013
Date Made Active in Reports: 10/28/2013
Number of Days to Update: 46

Source: Minnesota Pollution Control Agency
Telephone: 651-296-6300
Last EDR Contact: 09/12/2013
Next Scheduled EDR Contact: 12/23/2013
Data Release Frequency: Annually

MN PLP: Permanent List of Priorities
The list identifies hazardous waste sites where investigation and cleanup are needed, cleanup is underway, or cleanup has been completed and long-term monitoring or maintenance continues.

Date of Government Version: 11/17/2011
Date Data Arrived at EDR: 11/21/2011
Date Made Active in Reports: 12/27/2011
Number of Days to Update: 36

Source: Pollution Control Agency
Telephone: 651-296-6139
Last EDR Contact: 11/15/2013
Next Scheduled EDR Contact: 02/24/2014
Data Release Frequency: Annually

SRS: Site Remediation Section Database
The database contains site information for sites monitored by the Site Remediation Section.

Date of Government Version: 08/29/2013
Date Data Arrived at EDR: 09/12/2013
Date Made Active in Reports: 10/28/2013
Number of Days to Update: 46

Source: Pollution Control Agency
Telephone: 651-282-5988
Last EDR Contact: 09/12/2013
Next Scheduled EDR Contact: 12/23/2013
Data Release Frequency: Quarterly

MN DEL PLP: Delisted Permanent List of Priorities
This generally means that either no more cleanup at a site is needed or that no state superfund funding is needed for long term monitoring activities.

Date of Government Version: 11/17/2011
Date Data Arrived at EDR: 11/21/2011
Date Made Active in Reports: 12/23/2011
Number of Days to Update: 32

Source: Pollution Control Agency
Telephone: 651-296-6139
Last EDR Contact: 11/15/2013
Next Scheduled EDR Contact: 02/24/2014
Data Release Frequency: Annually

SWF/LF: Permitted Solid Waste Disposal Facilities
Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 08/01/2013
Date Data Arrived at EDR: 08/14/2013
Date Made Active in Reports: 09/25/2013
Number of Days to Update: 42

Source: Minnesota Pollution Control Agency
Telephone: 651-296-7276
Last EDR Contact: 11/13/2013
Next Scheduled EDR Contact: 02/24/2014
Data Release Frequency: Varies

LCP: Closed Landfills Priority List
The Minnesota Legislature enacted a law to manage and clean up the state's closed Mixed Municipal Solid Waste Landfills. Under that law, the MPCA is required to create and periodically revise a priority list of qualified landfills, based on the relative health and environmental risks they present. The MPCA established the first such priority list in December, 1994.

Date of Government Version: 01/01/2013
Date Data Arrived at EDR: 05/30/2013
Date Made Active in Reports: 07/01/2013
Number of Days to Update: 32

Source: Minnesota Pollution Control Agency
Telephone: 651-296-9543
Source: Pollution Control Agency, GIS Section
Telephone: 651-296-7266
Last EDR Contact: 08/23/2013
Next Scheduled EDR Contact: 12/09/2013
Data Release Frequency: Annually

LS: List of Sites
The List of Sites includes: Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS), No Further Remedial Action Planned (NFRAP), National Priorities List (NPL), Permanent List of Priorities (PLP), sites delisted from the Permanent List of Priorities (DPLP), Hazardous Waste Permit Unit Project Facilities (HW PERM), List of Permitted Solid Waste Facilities (SW PERM), 1980 Metropolitan Area Waste Disposal Site Inventory (METRO), 1980 Statewide Outstate Dump Inventory (ODI), Voluntary and Investigation Program (VIC), and Closed Landfill Sites Undergoing Cleanup (LCP).

Date of Government Version: 04/22/2009
Date Data Arrived at EDR: 07/14/2009
Date Made Active in Reports: 07/24/2009
Number of Days to Update: 10

Source: Minnesota Pollution Control Agency
Telephone: 651-297-2731
Source: Pollution Control Agency, GIS Section
Telephone: 651-297-2731
Last EDR Contact: 12/21/2011
Next Scheduled EDR Contact: 04/09/2012
Data Release Frequency: Semi-Annually

SWRCY: Recycling Facilities
A listing of companies that accept commercial quantities of recyclable materials.

Date of Government Version: 11/12/2012
Date Data Arrived at EDR: 11/16/2012
Date Made Active in Reports: 12/24/2012
Number of Days to Update: 38

Source: Pollution Control Agency
Telephone: 651-296-6300
Last EDR Contact: 11/15/2013
Next Scheduled EDR Contact: 02/24/2014
Data Release Frequency: Varies

LUST: Leak Sites
Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 10/01/2013
Date Data Arrived at EDR: 10/03/2013
Date Made Active in Reports: 10/30/2013
Number of Days to Update: 27

Source: Minnesota Pollution Control Agency
Telephone: 651-296-6300
Last EDR Contact: 11/13/2013
Next Scheduled EDR Contact: 02/24/2014
Data Release Frequency: Semi-Annually

UST: Underground Storage Tank Database
Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 10/01/2013
Date Data Arrived at EDR: 10/03/2013
Date Made Active in Reports: 10/28/2013
Number of Days to Update: 25

Source: Minnesota Pollution Control Agency
Telephone: 651-649-5451
Last EDR Contact: 11/13/2013
Next Scheduled EDR Contact: 02/24/2014
Data Release Frequency: Varies

LAST: Leaking Aboveground Storage Tanks
A listing of leaking aboveground storage tanks.

Date of Government Version: 10/01/2013
Date Data Arrived at EDR: 10/03/2013
Date Made Active in Reports: 10/30/2013
Number of Days to Update: 27

Source: Pollution Control Agency
Telephone: 651-296-6300
Last EDR Contact: 11/13/2013
Next Scheduled EDR Contact: 02/24/2014
Data Release Frequency: Semi-Annually

AST: Aboveground Storage Tanks
Registered Aboveground Storage Tanks.

Date of Government Version: 10/01/2013
Date Data Arrived at EDR: 10/03/2013
Date Made Active in Reports: 10/28/2013
Number of Days to Update: 25

Source: Minnesota Pollution Control Agency
Telephone: 651-296-0930
Last EDR Contact: 11/13/2013
Next Scheduled EDR Contact: 02/24/2014
Data Release Frequency: Semi-Annually

LIENS: Environmental Liens
Sites included in the Site Remediation System Database that have Environmental Liens.

Date of Government Version: 07/06/2006
Date Data Arrived at EDR: 07/07/2006
Date Made Active in Reports: 08/14/2006
Number of Days to Update: 38

Source: Pollution Control Agency
Telephone: 602-282-5988
Last EDR Contact: 09/12/2013
Next Scheduled EDR Contact: 12/25/2012
Data Release Frequency: Quarterly

BULK: Bulk Facilities Database
Facilities that use bulk pesticides and fertilizers

Date of Government Version: 08/12/2013
Date Data Arrived at EDR: 08/14/2013
Date Made Active in Reports: 09/25/2013
Number of Days to Update: 42

Source: Department of Agriculture
Telephone: 651-297-3997
Last EDR Contact: 11/13/2013
Next Scheduled EDR Contact: 02/24/2014
Data Release Frequency: Semi-Annually

MANIFEST: Hazardous Waste Manifest Data
Hazardous waste manifest data.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 06/18/2013
Date Made Active in Reports: 07/02/2013
Number of Days to Update: 14

Source: Pollution Control Agency
Telephone: 651-296-7258
Last EDR Contact: 09/20/2013
Next Scheduled EDR Contact: 12/30/2013
Data Release Frequency: Annually

SPILLS: Spills Database
Spills reported to the Pollution Control Agency.

Date of Government Version: 10/01/2013
Date Data Arrived at EDR: 10/03/2013
Date Made Active in Reports: 10/30/2013
Number of Days to Update: 27

Source: Minnesota Pollution Control Agency
Telephone: 651-649-5451
Last EDR Contact: 11/13/2013
Next Scheduled EDR Contact: 02/24/2014
Data Release Frequency: Quarterly

AG SPILLS: Department of Agriculture Spills
This data is a list of pesticide/fertilizer incidents reported to have occurred in Minnesota.

Date of Government Version: 08/09/2013
Date Data Arrived at EDR: 08/14/2013
Date Made Active in Reports: 09/25/2013
Number of Days to Update: 42

Source: Department of Agriculture
Telephone: 651-297-3997
Last EDR Contact: 11/13/2013
Next Scheduled EDR Contact: 02/24/2014
Data Release Frequency: Semi-Annually

INST CONTROL: Site Remediation Section Database
Sites that have an Institutional Control event.

Date of Government Version: 08/29/2013
Date Data Arrived at EDR: 09/12/2013
Date Made Active in Reports: 10/28/2013
Number of Days to Update: 46

Source: Pollution Control Agency
Telephone: 512-296-6300
Last EDR Contact: 09/12/2013
Next Scheduled EDR Contact: 12/23/2013
Data Release Frequency: Quarterly

VIC: Voluntary Investigation and Cleanup Program
Voluntary Investigation and Cleanup (VIC) Program List.

Date of Government Version: 08/29/2013
Date Data Arrived at EDR: 09/12/2013
Date Made Active in Reports: 10/28/2013
Number of Days to Update: 46

Source: Minnesota Pollution Control Agency
Telephone: 651-296-7291
Last EDR Contact: 09/12/2013
Next Scheduled EDR Contact: 12/23/2013
Data Release Frequency: Quarterly

DRYCLEANERS: Registered Drycleaning Facilities
A listing of coin-operated laundries and drycleaning; drycleaning plants, except rug cleaning; and industrial launderers.

Date of Government Version: 09/18/2013
Date Data Arrived at EDR: 09/19/2013
Date Made Active in Reports: 10/28/2013
Number of Days to Update: 39

Source: Pollution Control Agency
Telephone: 651-296-6300
Last EDR Contact: 09/16/2013
Next Scheduled EDR Contact: 12/30/2013
Data Release Frequency: Varies

BROWNFIELDS: Petroleum Brownfields Program Sites
Purchasing, selling, or developing property can present a special set of obstacles if the property is contaminated with chemicals. The Petroleum Brownfields Program is one of several programs within the Minnesota Pollution Control Agency (MPCA) designed to help people address these obstacles. The purpose of the Petroleum Brownfields Program is to provide the technical assistance and liability assurance needed to expedite and facilitate the development, transfer, investigation and/or cleanup of property that is contaminated with petroleum.

Date of Government Version: 09/30/2012
Date Data Arrived at EDR: 02/19/2013
Date Made Active in Reports: 03/27/2013
Number of Days to Update: 36

Source: Pollution Control Agency
Telephone: 651-296-7999
Last EDR Contact: 11/19/2013
Next Scheduled EDR Contact: 03/03/2014
Data Release Frequency: Varies

ENFORCEMENT: Generators Associated with Enforcement Logs
Regulatory Compliance, Hazardous Waste Enforcement Log and Hazardous Waste Permit Unit Project Identification List.

Date of Government Version: 09/18/2013
Date Data Arrived at EDR: 09/27/2013
Date Made Active in Reports: 10/28/2013
Number of Days to Update: 31

Source: Minnesota Pollution Control Agency
Telephone: 651-297-8332
Last EDR Contact: 09/16/2013
Next Scheduled EDR Contact: 12/30/2013
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs
This data was passively gathered. That is, the DOH asks law enforcement and other agencies to notify them of Clandestine Drug Labs (CDLs). They do not require reporting of events. Therefore the data represents only a subset of all CDLs. This data has not been verified. The DOH has made no attempt to verify that reported CDLs actually occurred. They have no knowledge if the CDL was involved in cooking or just consisted of chemicals associated with Meth production. The reports they receive are that a suspected CDL was seized.

Date of Government Version: 10/07/2013
Date Data Arrived at EDR: 10/08/2013
Date Made Active in Reports: 10/30/2013
Number of Days to Update: 22

Source: Department of Health
Telephone: 651-215-5800
Last EDR Contact: 10/07/2013
Next Scheduled EDR Contact: 10/21/2013
Data Release Frequency: Varies

MN HWS PERMIT: Active TSD Facilities
Active TSD Facilities.

Date of Government Version: 03/21/2013
Date Data Arrived at EDR: 03/21/2013
Date Made Active in Reports: 05/02/2013
Number of Days to Update: 42

Source: Minnesota Pollution Control Agency
Telephone: 651-297-8470
Last EDR Contact: 09/16/2013
Next Scheduled EDR Contact: 12/30/2013
Data Release Frequency: Annually

AIRS: Permit Contact List
A listing of permitted AIRS facilities.

Date of Government Version: 07/02/2013
Date Data Arrived at EDR: 07/05/2013
Date Made Active in Reports: 08/02/2013
Number of Days to Update: 28

Source: Pollution Control Agency
Telephone: 651-296-7351
Last EDR Contact: 11/08/2013
Next Scheduled EDR Contact: 02/24/2014
Data Release Frequency: Varies

TIER 2: Tier 2 Facility Listing
A listing of facilities which store or manufacture hazardous materials that submit a chemical inventory report.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 05/16/2013
Date Made Active in Reports: 07/02/2013
Number of Days to Update: 47

Source: Department of Public Safety
Telephone: 651-296-2233
Last EDR Contact: 11/08/2013
Next Scheduled EDR Contact: 02/24/2014
Data Release Frequency: Varies

MDA LIS: Licensing Information System Database Listing
Information provided lists all individuals or companies who hold licenses, certificates and/or permits required by state law and regulated by the Department. Additionally, the LIS lists all companies who must register products with the Department before being used or sold in commercial channels within our state.

Date of Government Version: 08/12/2013
Date Data Arrived at EDR: 08/14/2013
Date Made Active in Reports: 09/25/2013
Number of Days to Update: 42

Source: Department of Agriculture
Telephone: 651-201-6000
Last EDR Contact: 11/13/2013
Next Scheduled EDR Contact: 02/24/2014
Data Release Frequency: Varies

UNPERM LF: Unpermitted Facilities
These are facilities that have solid waste disposal yet are not permitted.

Date of Government Version: 08/01/2013
Date Data Arrived at EDR: 08/14/2013
Date Made Active in Reports: 09/25/2013
Number of Days to Update: 42

Source: Pollution Control Agency
Telephone: 651-757-2665
Last EDR Contact: 11/13/2013
Next Scheduled EDR Contact: 02/24/2014
Data Release Frequency: Quarterly

COAL ASH: Coal Ash Disposal Site Listing
A listing of coal ash disposal site locations.

Date of Government Version: 08/13/2013
Date Data Arrived at EDR: 08/13/2013
Date Made Active in Reports: 09/25/2013
Number of Days to Update: 43

Source: Pollution Control Agency
Telephone: 651-757-2740
Last EDR Contact: 11/08/2013
Next Scheduled EDR Contact: 02/24/2014
Data Release Frequency: Varies

AGVIC: Agricultural Voluntary Investigation & Cleanup Listing
A listing of agricultural voluntary investigation & cleanup site locations.

Date of Government Version: 08/09/2013
Date Data Arrived at EDR: 08/14/2013
Date Made Active in Reports: 09/25/2013
Number of Days to Update: 42

Source: Department of Agriculture
Telephone: 651-201-6400
Last EDR Contact: 11/13/2013
Next Scheduled EDR Contact: 02/24/2014
Data Release Frequency: Quarterly

WIMN: What's In My Neighborhood
Since 2003, the PCA's "What's in My Neighborhood?" database provides information about air quality, hazardous waste, remediation, solid waste, tanks and leaks, and water quality around Minnesota.

Date of Government Version: 10/13/2013
Date Data Arrived at EDR: 10/15/2013
Date Made Active in Reports: 10/30/2013
Number of Days to Update: 15

Source: Pollution Control Agency
Telephone: 651-757-2593
Last EDR Contact: 10/15/2013
Next Scheduled EDR Contact: 01/27/2014
Data Release Frequency: Varies

TRIBAL RECORDS

INDIAN RESERV: Indian Reservations
This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 10/18/2013
Next Scheduled EDR Contact: 01/27/2014
Data Release Frequency: Semi-Annually

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 11/04/2013
Next Scheduled EDR Contact: 02/17/2014
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 07/29/2013
Date Data Arrived at EDR: 07/30/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 94

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 03/01/2013
Date Data Arrived at EDR: 03/01/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 42

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 08/27/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 08/27/2013
Date Data Arrived at EDR: 08/27/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 66

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 09/12/2011
Date Data Arrived at EDR: 09/13/2011
Date Made Active in Reports: 11/11/2011
Number of Days to Update: 59

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 08/01/2013
Date Data Arrived at EDR: 08/02/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 91

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Semi-Annually

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 02/01/2013
Date Data Arrived at EDR: 05/01/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 184

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 11/01/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 08/20/2013
Date Data Arrived at EDR: 08/23/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 70
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 02/05/2013
Date Data Arrived at EDR: 02/06/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 65
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Quarterly

INDIAN UST R1: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 09/28/2012
Date Data Arrived at EDR: 11/07/2012
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 156
Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 11/01/2014
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 08/01/2013
Date Data Arrived at EDR: 08/02/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 91
Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 08/20/2013
Date Data Arrived at EDR: 08/23/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 70
Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/10/2011
Date Data Arrived at EDR: 05/11/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 34
Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Semi-Annually

INDIAN UST R7: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 02/28/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 43
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 07/29/2013
Date Data Arrived at EDR: 08/01/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 92
Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 02/21/2013
Date Data Arrived at EDR: 02/26/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 45
Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Quarterly

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 09/28/2012
Date Data Arrived at EDR: 10/02/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 14
Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 10/01/2013
Next Scheduled EDR Contact: 01/13/2014
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27
Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

EDR PROPRIETARY RECORDS

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A
Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR US Hist Auto Stat: EDR Exclusive Historic Gas Stations
EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A
Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Cleaners: EDR Exclusive Historic Dry Cleaners
EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A
Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Auto Stat: EDR Proprietary Historic Gas Stations - Cole

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A
Source: N/A
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Cleaners: EDR Proprietary Historic Dry Cleaners - Cole

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A
Source: N/A
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013
Date Data Arrived at EDR: 08/19/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 45
Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 08/19/2013
Next Scheduled EDR Contact: 12/02/2013
Data Release Frequency: Annually

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/19/2012
Date Made Active in Reports: 08/28/2012
Number of Days to Update: 40
Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 10/18/2013
Next Scheduled EDR Contact: 01/27/2014
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 11/01/2013
Date Data Arrived at EDR: 11/07/2013
Date Made Active in Reports: 11/18/2013
Number of Days to Update: 11
Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 11/07/2013
Next Scheduled EDR Contact: 02/17/2014
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 07/24/2013
Date Made Active in Reports: 08/19/2013
Number of Days to Update: 26
Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 10/21/2013
Next Scheduled EDR Contact: 02/03/2014
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 06/21/2013
Date Made Active in Reports: 08/05/2013
Number of Days to Update: 45
Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 08/23/2013
Next Scheduled EDR Contact: 12/09/2013
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 08/09/2013
Date Made Active in Reports: 09/27/2013
Number of Days to Update: 49
Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 09/16/2013
Next Scheduled EDR Contact: 12/30/2013
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

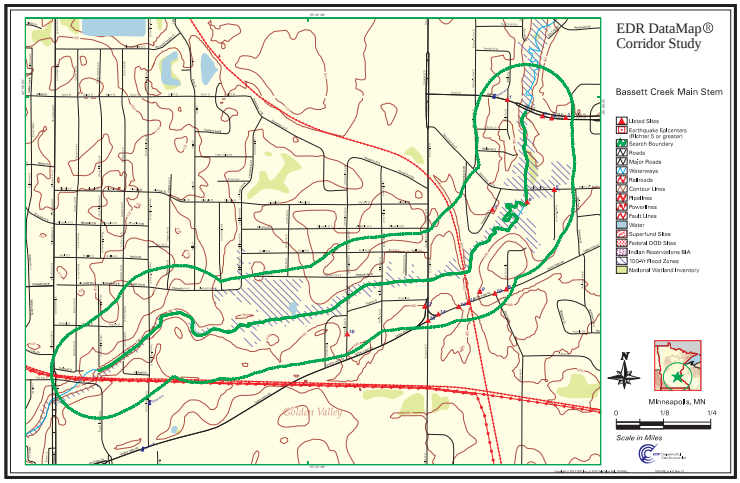
Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Child Care Centers
Source: Department of Human Services
Telephone: 651-296-3971

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

STREET AND ADDRESS INFORMATION



EDR DataMap® Corridor Study

Bassett Creek Main Stem

93° 22′ 00″

45° 00′ 00″

- Listed Sites
- Earthquake Epicenters (Richter 5 or greater)
- Search Boundary
- Roads
- Major Roads
- Waterways
- Railroads
- Contour Lines
- Pipelines
- Powerlines
- Fault Lines
- Water
- Superfund Sites
- Federal DOD Sites
- Indian Reservations BIA
- 100-Yr Flood Zones
- National Wetland Inventory

N

Minneapolis, MN

0 1/8 1/4

Scale in Miles

EDR® Environmental Data Resources, Inc

APPENDIX C

FIM+ Report

Site Location

Bassett Creek Main Stem
Bassett Creek
Golden Valley, MN

HIG Project No. 136145

Conducted For

WSB & Associates, Inc.
701 Xenia Avenue South, Suite 3
Minneapolis, MN

Client Project No. 2032-060

The Fire Insurance Maps Plus Report (FIM+ Report) is a summary of research conducted by Historical Information Gatherers, Inc. (HIG) for the locations of fire insurance maps and similar land use maps for the property noted above under Site Location ("the Site"). The **Results Summary** section provides a numbered list of each map publication that has been prepared for the general area of the Site. **Site Coverage** and **Research Notes** give details related to the maps researched by HIG for this report. Complete information about how to access the map collections is included in the **Map Detail** pages which follow the Report Summary. All FIM+ Maps provided by HIG are based on source material which has passed into the public domain (not protected by copyright). The information in this FIM+ Report regarding map publications was compiled by others from numerous sources and HIG cannot warranty its accuracy. HIG has edited data from these sources when it was believed to be erroneous based on research conducted by HIG.

Results Summary

	Map Type	Publication	Year	Publisher	Site Coverage	Research Notes
1	*Fire Insurance*	Golden Valley, MN	1949	Fire Underwriters Inspection Bureau	No coverage.	

***Site Coverage* Notes**:
Coverage Provided - Copies of maps for the Site are provided in a separate file.
Coverage Available - Coverage of the Site does exist and can be obtained from other sources. See the ***Map Detail*** section of the ***FIM+ Report*** for known locations and formats.
No Coverage - The Site was not included in the extent of the publication.
Coverage Unknown - Detailed information regarding the coverage area of the publication was not readily available to HIG researchers.

Map Format Information

Fire insurance maps may be found in a variety of formats including paper, microfilm, or digital, which could be in color, grayscale, or black and white.

Paper fire insurance maps are usually original color publications, though a few were produced in black and white. Updates to these maps were drawn on paper, cut to fit the area to be updated, and then glued to the original. It is sometimes possible to see the original map lines and text through the overlying update. Some of the paper map collections listed in the FIM+ Report are reproductions which are grayscale or black and white. If paper maps are known to be reproductions, this information is included in the FIM+ Report.

Microfilm reproductions of fire insurance maps are almost always in grayscale format, although it is frequently referred to as black and white. A very small amount of color microfilm of fire insurance maps has been produced and is noted in the FIM+ Report when applicable.

Digital copies of fire insurance maps may be in color, grayscale, or black and white, depending on the original source material and the scanning equipment used.

- *Color* scans generally capture all the information depicted on the maps.
- *Grayscale* scans generally capture most the information depicted on the maps and may also allow a researcher to distinguish color variations because each pixel in the image is one of 256 shades of gray.
- *Black and white* scans have no color variations. Because of this, some data from the original map has been lost either by being so light that it disappears from the image altogether, or by being so dark that parts of the image become very dark and unreadable.

***Scan quality*:** Color and grayscale scans may allow the researcher to see and interpret data that was present on the original paper map which underlies the pasted on revisions that were glued to the original map pages; black and white scans have lost this along with other details.

***Scan files*:** Common file types for digital maps are PDF, JPG, SID, TIF, ECW, and JPG 2000, some of which require special software for viewing. Black and white scans have a very small file size while color and grayscale images are generally much larger.

***Map Type*:** Fire Insurance maps were prepared for insurance underwriters to assess risk. They have very detailed information about building structures, tanks, and production processes in commercial facilities, and may show lot lines. Real Estate Atlases (sometimes called Plat Maps), are frequently mistaken for Fire Insurance maps as they have a similar look of showing building footprints and lot lines, but they show far less detail. Panoramic Maps may be a drawing or photograph mosaic from a bird's eye view.

Description of Major Collections

HIG's *Public Domain Fire Insurance Maps*

By utilizing its exclusive database, *Copyright Records of the Sanborn Map Co. 1923-1992* and through additional copyright research, HIG has built a digital collection of fire insurance and other similar maps which have passed into the public domain. The collection includes maps from numerous publishers including Sanborn, Rascher, Hopkins, Baist, Foote, Robinson, and more. Images include color scans of original maps or grayscale scans of microfilmed maps which have been digitally enhanced for readability. Digital images and reprints may be ordered from HIG. http://www.historicalinfo.com

Library of Congress

The Library of Congress Geography and Map Division (LC) has the largest collection of original color fire insurance maps for the United States, produced by a number of different publishers. It is composed primarily of maps submitted for copyright along with working (revised) copies donated by the Census Bureau and others. A small number of maps have also been purchased by the library. In 1981, the LC published a book which listed the library's holdings at that time entitled *Fire Insurance Maps in the Library of Congress: plans of North American cities and towns produced by the Sanborn Map Company: a checklist*. Maps produced by other publishers were not included in this book. More than 400 volumes of fire insurance maps have been added to the LC collection since 1981; these have not yet been catalogued. In addition to printed maps, the LC also holds complete collections of Chadwyck-Healey and University Publications of America microfilm and subscribes to the Proquest digital collection, all of which are discussed below.

Chadwyck-Healey microfilm

Chadwyck-Healey, Inc. microfilmed the Library of Congress collection of fire insurance maps produced by the Sanborn Map Co. beginning in 1983 and released the imagery in 2 editions. The first edition covers maps dated 1867-1950; the second edition covers maps from 1950-1970. The maps are organized by state in the same order as the LC checklist published in 1981, excepting that the two editions of microfilm are separate. This grayscale microfilm is widely available in libraries for viewing, but is not available for sale to the general public. The first edition is more commonly available than the second.

Proquest's *Digital Sanborn Maps*

Proquest created a collection called *Digital Sanborn Maps 1867-1970* which is a collection consisting of black and white scans of the Chadwyck-Healey microfilm. Libraries and government agencies can subscribe to the Proquest collection, but not businesses or private individuals. Proquest subscriptions are by available by state and the subscribing library can also choose whether or not to allow users remote access to the collection. A number of libraries throughout the country subscribe to all 50 states but not all allow remote access to the Proquest collection. All subscribing libraries permit public access to the Proquest collection on a walk in basis. Many libraries permit registered users to access the Proquest collection remotely via the internet. Requirements to be a registered user vary from library to library. Proquest's description of this collection is found at:
http://www.proquest.com/en-US/catalogs/databases/detail/sanborn.shtml

Sanborn Library, LLC

The Sanborn Library, LLC was created by Environmental Data Resources (EDR) after its acquisition of the Sanborn Map Co. in 1996. Their collection consists primarily of black and white scans of Chadwyck-Healey and University Publications of America microfilm, with some additional coverage obtained from libraries or through the continued updating of maps. Some original color maps are still in the collection, but a catalog of holdings is not publically available. Theirs is the single largest collection of maps produced by Sanborn. The collection is not directly accessible, though scanned images and reprints may be ordered through EDR.
http://www.edrnet.com/index.php

University Publications of America microfilm

In 1993, prior to its acquisition by EDR, the Sanborn Map Company allowed University Publications of America (UPA; now owned by LexisNexis) to microfilm their holdings. This collection, entitled *Fire Insurance Maps from the Sanborn Map Company Archives*, contains maps which are typically revised to a later date than the Chadwyck-Healey collection. This grayscale microfilm is available for purchase by the general public. It is sold by the roll, with discounts available for whole states. Information about purchasing this microfilm is available at:
http://academic.lexisnexis.com/upa/upa-subject-area.aspx?pid=1852&type=AS&parentid=1850

Known Proquest Subscriptions for Minnesota Maps

Library of Congress - Geography & Maps, Washin **Remote Access Not** No Remote Access - in house only	
University of Miami, Coral Gables, FL **Remote Access Not** Students, Staff only	http://www.library.miami.edu/search/resourcesresearch.php?alpha=S
University of Iowa Libraries, Iowa City, IA **Remote Access Not** Students, Staff only	http://www.lib.uiowa.edu/maps/SanbornMaps.html
Indiana University - Bloomington, Bloomington, IN **Remote Access Not** Students, Staff only	http://www.libraries.iub.edu/index.php?pageId=1044&mode=alphaListing=ALL
Harvard University Pusey Library, Cambridge, MA **Remote Access Not** Students, Staff only	http://e-research.lib.harvard.edu/V/9SAEHUI3S4AAYHUYKTSRICA77GP5VJ7UUUSLPYJSMQVVKHULPF-04708?func=find-db-1
University of Michigan, Ann Arbor, MI **Remote Access Not** Students, Staff only	http://searchtools.lib.umich.edu/V/?func=find-db-1
Minnesota State Mankato, Mankato, MN **Remote Access Not** Students, Staff only	http://eresources.lib.mnsu.edu/page.phtml?page_id=21
University of Minnesota, Minneapolis, MN **Remote Access Not** Students, Staff only	http://www.lib.umn.edu/site/indexes.phtml
Hennepin County Library, Minneapolis, MN **Remote Access Not** Local Library card needed	http://www.hclib.org/pub/search/reference.cfm
Princeton University Library, Princeton, NJ **Remote Access Not** Students, Staff only	http://library.princeton.edu/catalogs/articles.php
Cornell University Olin Library, Ithaca, NY **Remote Access Not** Students, Staff only	http://www.library.cornell.edu/olinuris/ref/maps/sanborn.htm
Syracuse University, Syracuse, NY **Remote Access Not** Students, Staff only	http://library.syr.edu/research/database/index.html
Temple University Library, Philadelphia, PA **Remote Access Not** Students, Staff only	http://library.temple.edu/articles/subject_guides/gov_docs_maps.jsp;jsessionid=D2C5C49F802FB45BFD7A3322A085B4467?shc=1
University of Virginia Library, Charlottesville, VA **Remote Access Not** Students, Staff only	http://fisher.lib.virginia.edu/collections/maps/sanborn/
Seattle Public Library, Seattle, WA **Remote Access Not** Local Library card needed	http://www.spl.org/default.asp?pageID=collection_db_list&dbPage=16

Map Detail

Publication: Golden Valley, MN

1

Date: Oct 1949
Revised:
Republished:

County:
Map Type: Fire Insurance
Sheets: 3
Publisher: Fire Underwriters Inspection Bureau

Publication Notes:

Map Availability

Digital Locations

Public Domain Fire Insurance Maps by HIG	Format: Color	Off-line access	

Paper Locations

Library of Congress - Geography & Maps	http://www.loc.gov/rr/geogmap/
101 Independence Avenue, SE, Washington, DC 20540 202-707-6277	
Minnesota Historical Society	http://www.mnhs.org
345 W. Kellogg Blvd., Saint Paul, MN 55102 651-259-3000	

Microfilm Locations

APPENDIX D

HIG	2010 HIG Project # 136145 Client Project # 2032-060 Approximate Scale 1:6000 (1"=500')	N	Bassett Creek Main Stem Bassett Creek Golden Valley, MN

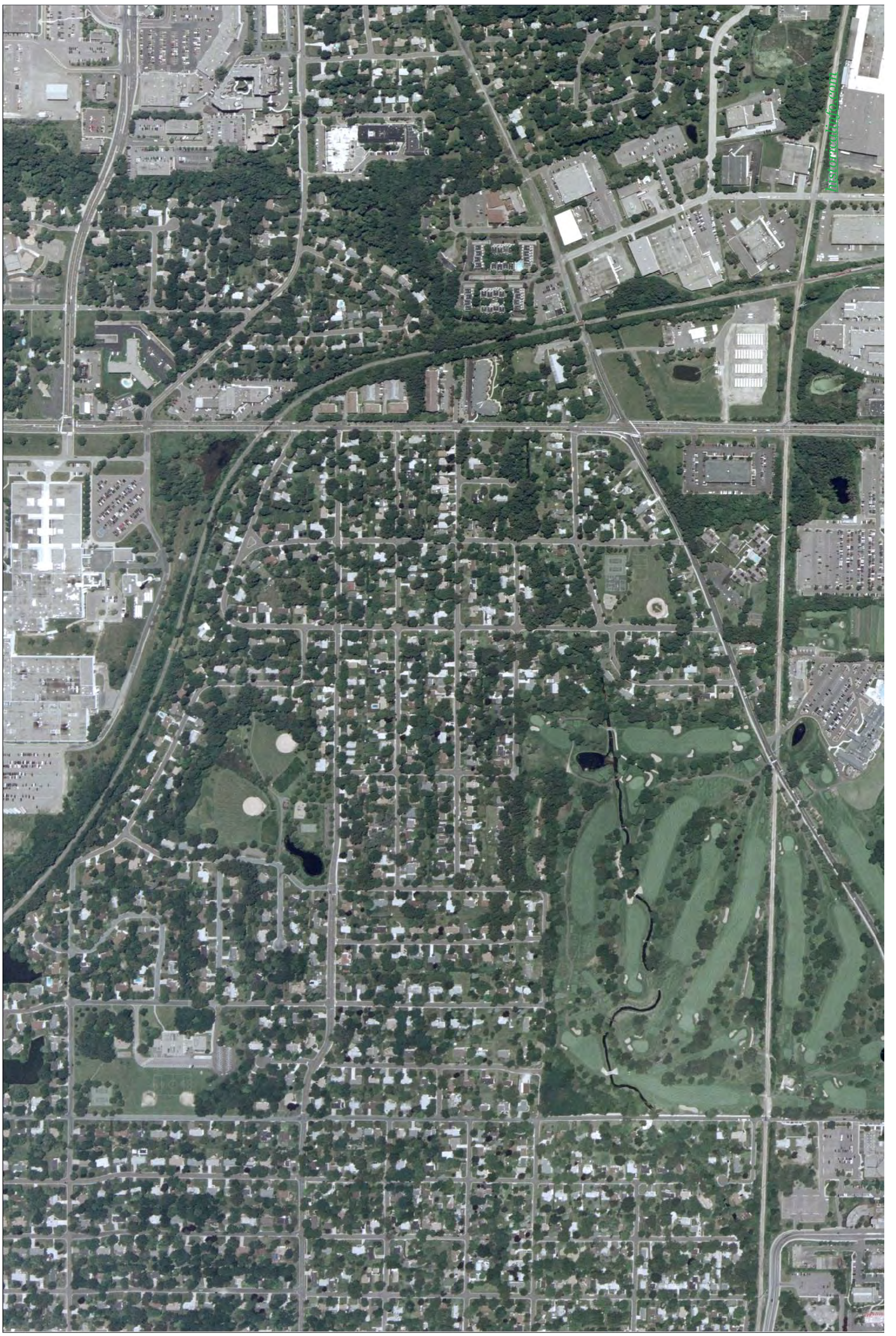
2003

HIG Project # 136145

Client Project # 2032-060

Approximate Scale 1:6000 (1"=500')

Bassett Creek Main Stem
Bassett Creek
Golden Valley, MN



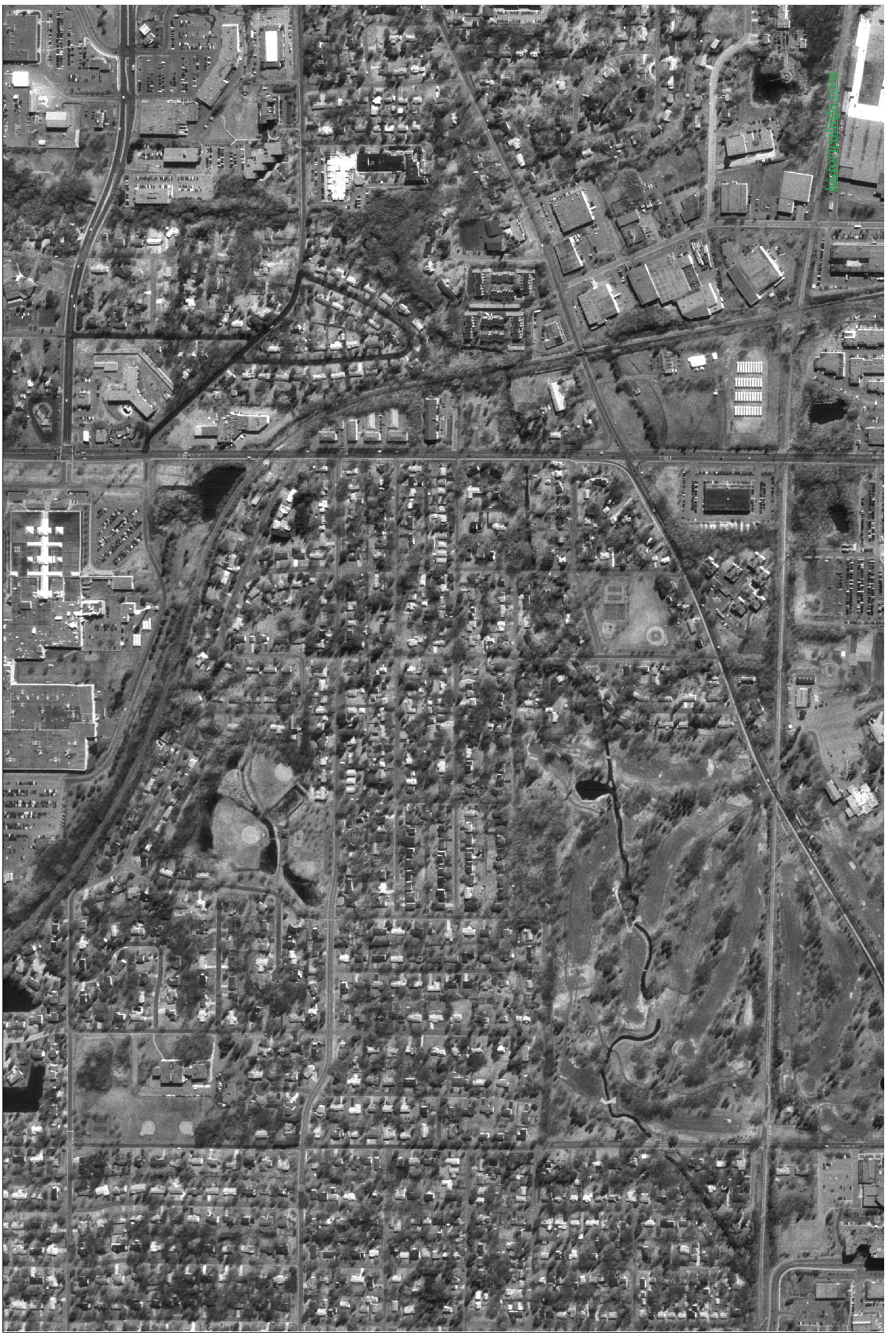
1997

HIG Project # 136145

Client Project # 2032-060

Approximate Scale 1:6000 (1"=500')

Bassett Creek Main Stem
Bassett Creek
Golden Valley, MN



1991

HIG Project # 136145

Client Project # 2032-060

Approximate Scale 1:6000 (1"=500')

Bassett Creek Main Stem
Bassett Creek
Golden Valley, MN

1984

HIG Project # 136145

Client Project # 2032-060

Approximate Scale 1:6000 (1"=500')

N

Bassett Creek Main Stem
Bassett Creek
Golden Valley, MN

1979

HIG Project # 136145

Client Project # 2032-060

Approximate Scale 1:6000 (1"=500')

Bassett Creek Main Stem
Bassett Creek
Golden Valley, MN

1969

HIG Project # 136145

Client Project # 2032-060

Approximate Scale 1:6000 (1"=500')

Bassett Creek Main Stem
Bassett Creek
Golden Valley, MN

1964

HIG Project # 136145

Client Project # 2032-060

Approximate Scale 1:6000 (1"=500')

Bassett Creek Main Stem
Bassett Creek
Golden Valley, MN

1957-West

HIG Project # 136145

Client Project # 2032-060

Approximate Scale 1:6000 (1"=500')

Bassett Creek Main Stem
Bassett Creek
Golden Valley, MN

1957-East

HIG Project # 136145

Client Project # 2032-060

Approximate Scale 1:6000 (1"=500')

Bassett Creek Main Stem
Bassett Creek
Golden Valley, MN

1953

HIG Project # 136145

Client Project # 2032-060

Approximate Scale 1:6000 (1"=500')

Bassett Creek Main Stem
Bassett Creek
Golden Valley, MN

1947-West

HIG Project # 136145

Client Project # 2032-060

Approximate Scale 1:6000 (1"=500')

Bassett Creek Main Stem
Bassett Creek
Golden Valley, MN

1947-East

HIG Project # 136145

Client Project # 2032-060

Approximate Scale 1:6000 (1"=500')

Bassett Creek Main Stem
Bassett Creek
Golden Valley, MN

1940

HIG Project # 136145

Client Project # 2032-060

Approximate Scale 1:6000 (1"=500')

N

Bassett Creek Main Stem
Bassett Creek
Golden Valley, MN

1937

HIG Project # 136145

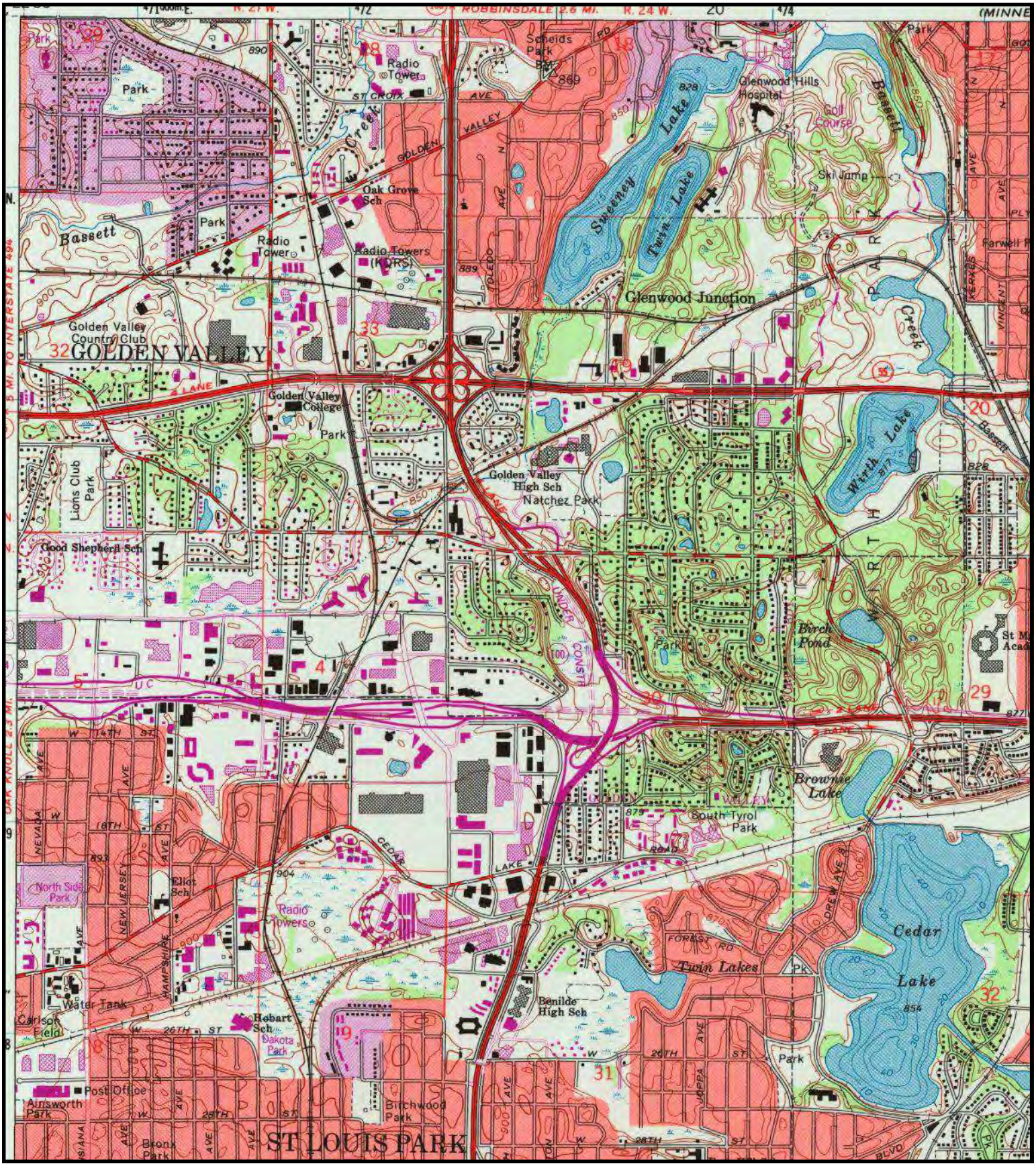
Client Project # 2032-060

Approximate Scale 1:6000 (1"=500')

N

Bassett Creek Main Stem
Bassett Creek
Golden Valley, MN

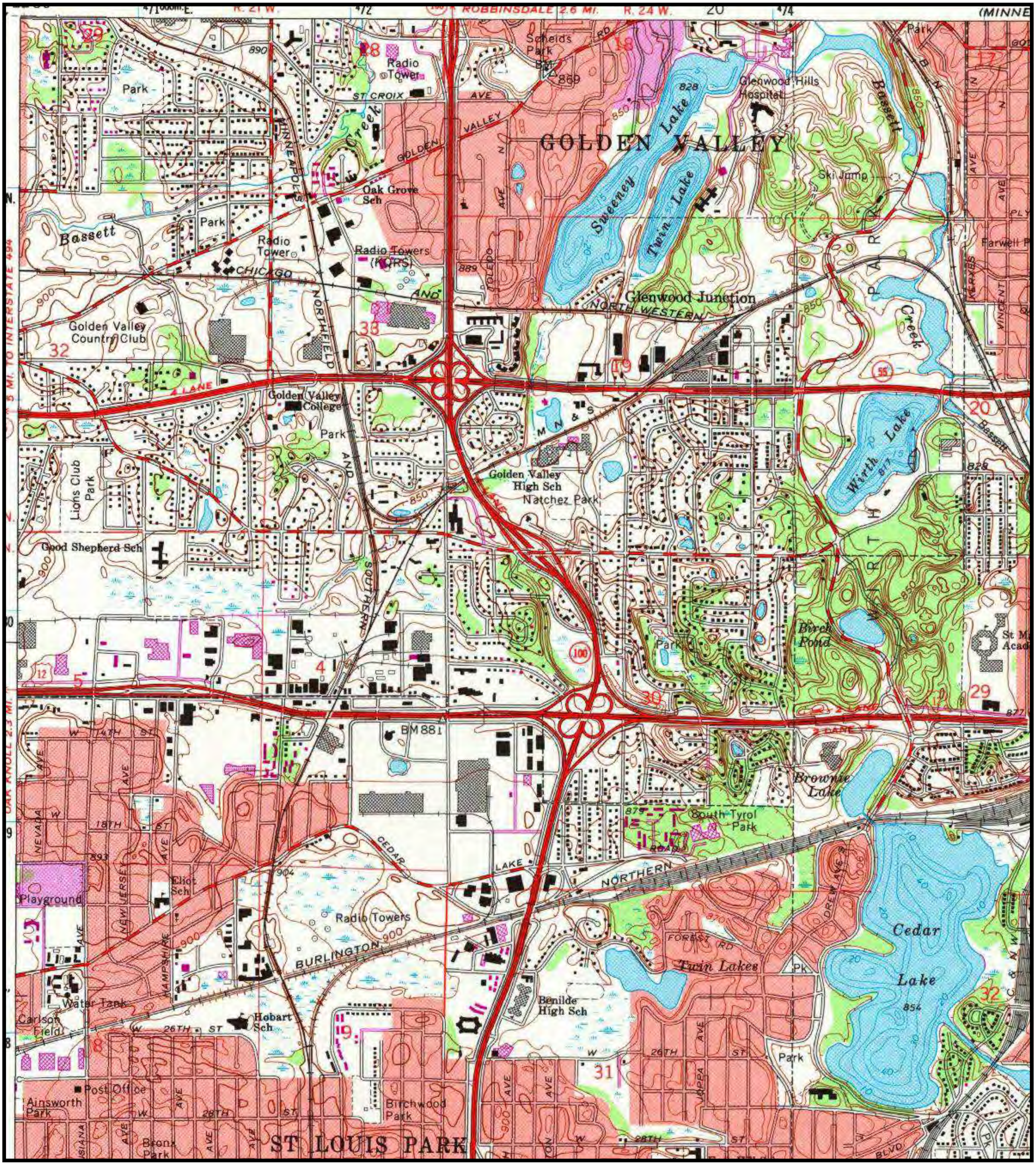
APPENDIX E



1993
Minneapolis South, Minnesota Quadrangle
USGS 7.5 Minute Topographic Map

0 0.2 0.4 0.8 Miles
0 1,250 2,500 5,000 Feet
0 0.375 0.75 1.5 Km

HIG



1977

Minneapolis South, Minnesota Quadrangle
USGS 7.5 Minute Topographic Map

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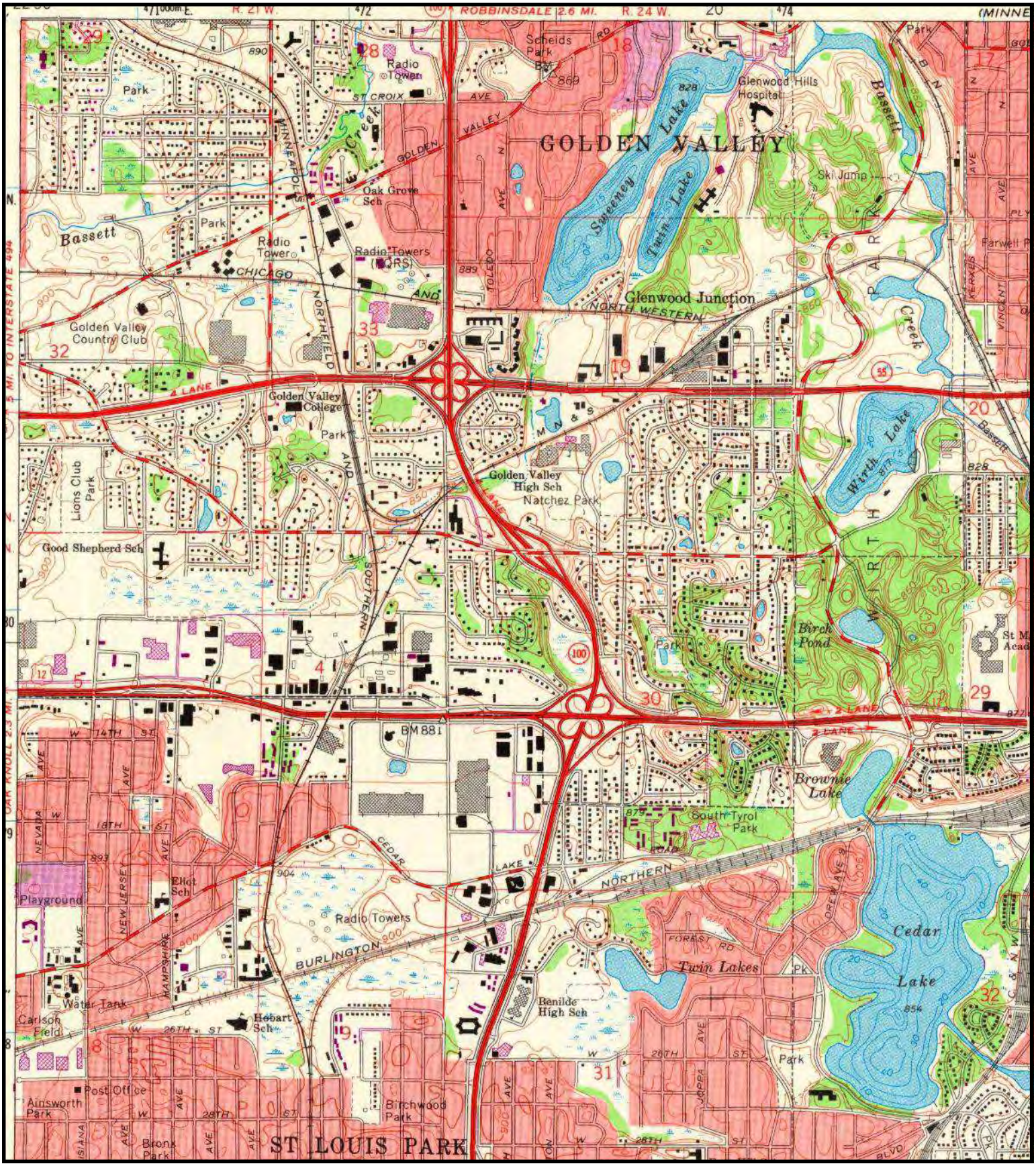

1972

Minneapolis South, Minnesota Quadrangle
USGS 7.5 Minute Topographic Map

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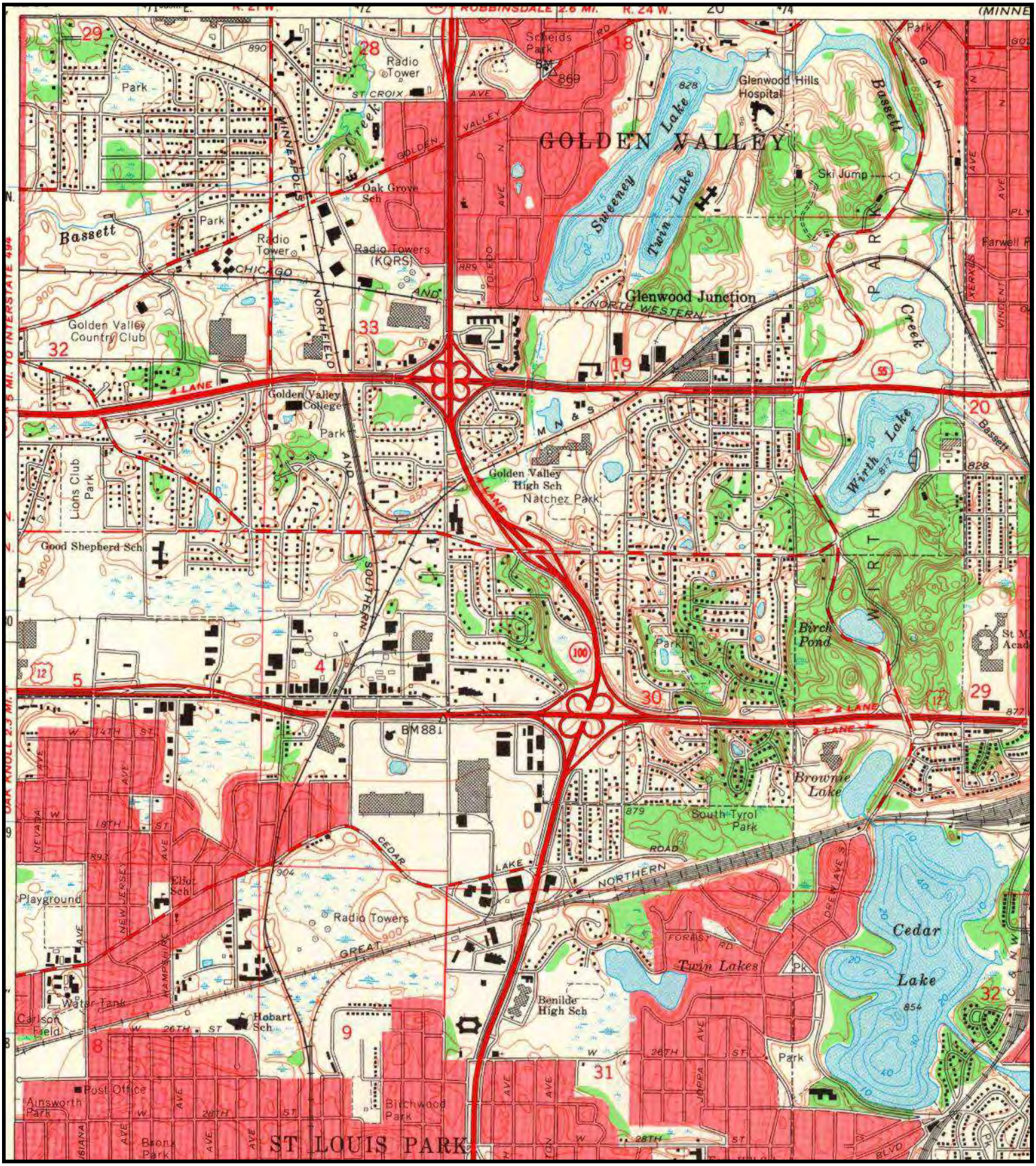

1967

Minneapolis South, Minnesota Quadrangle
USGS 7.5 Minute Topographic Map

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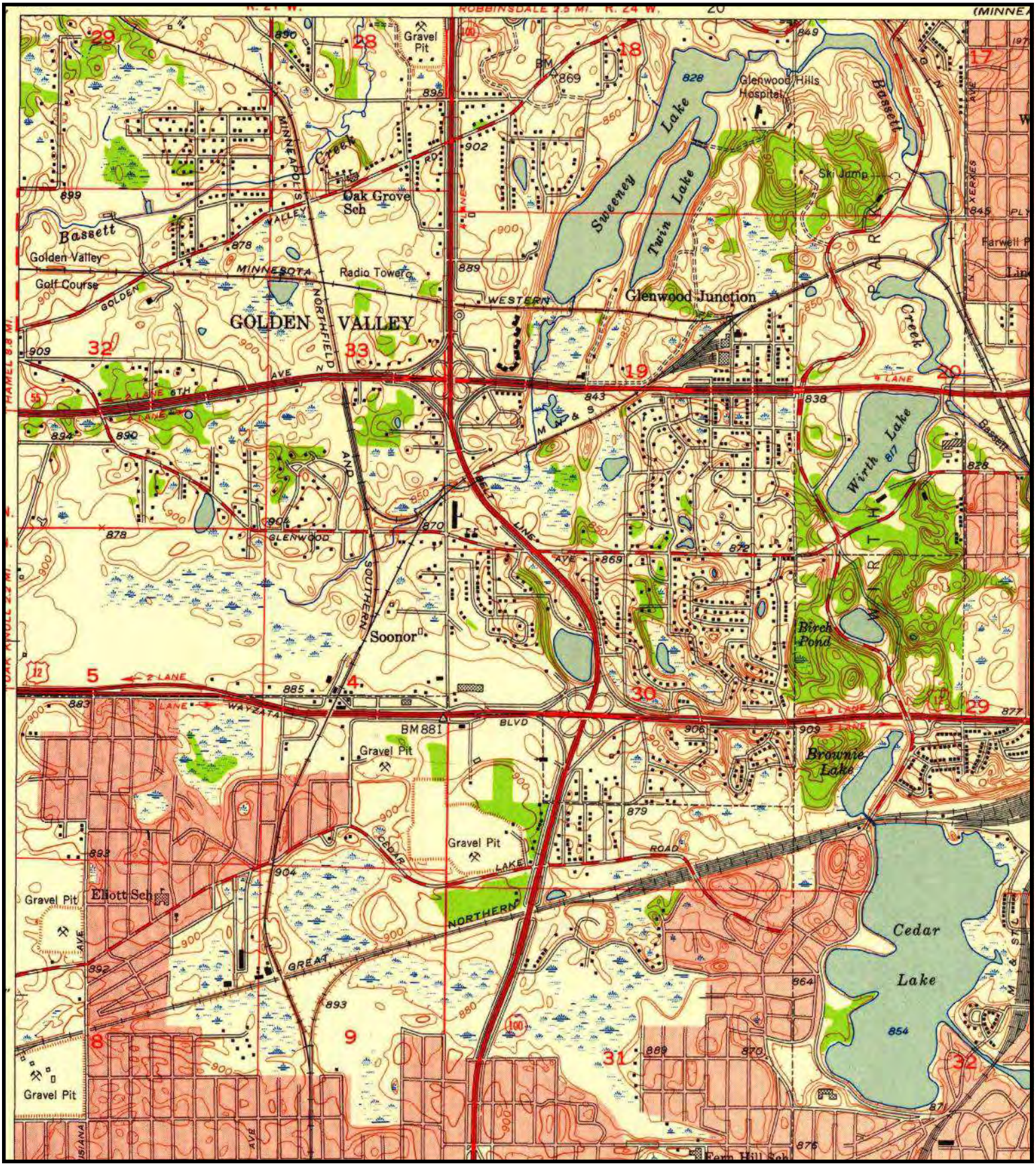
0 0.375 0.75 1.5 Km



1952

Minneapolis South, Minnesota Quadrangle
USGS 7.5 Minute Topographic Map

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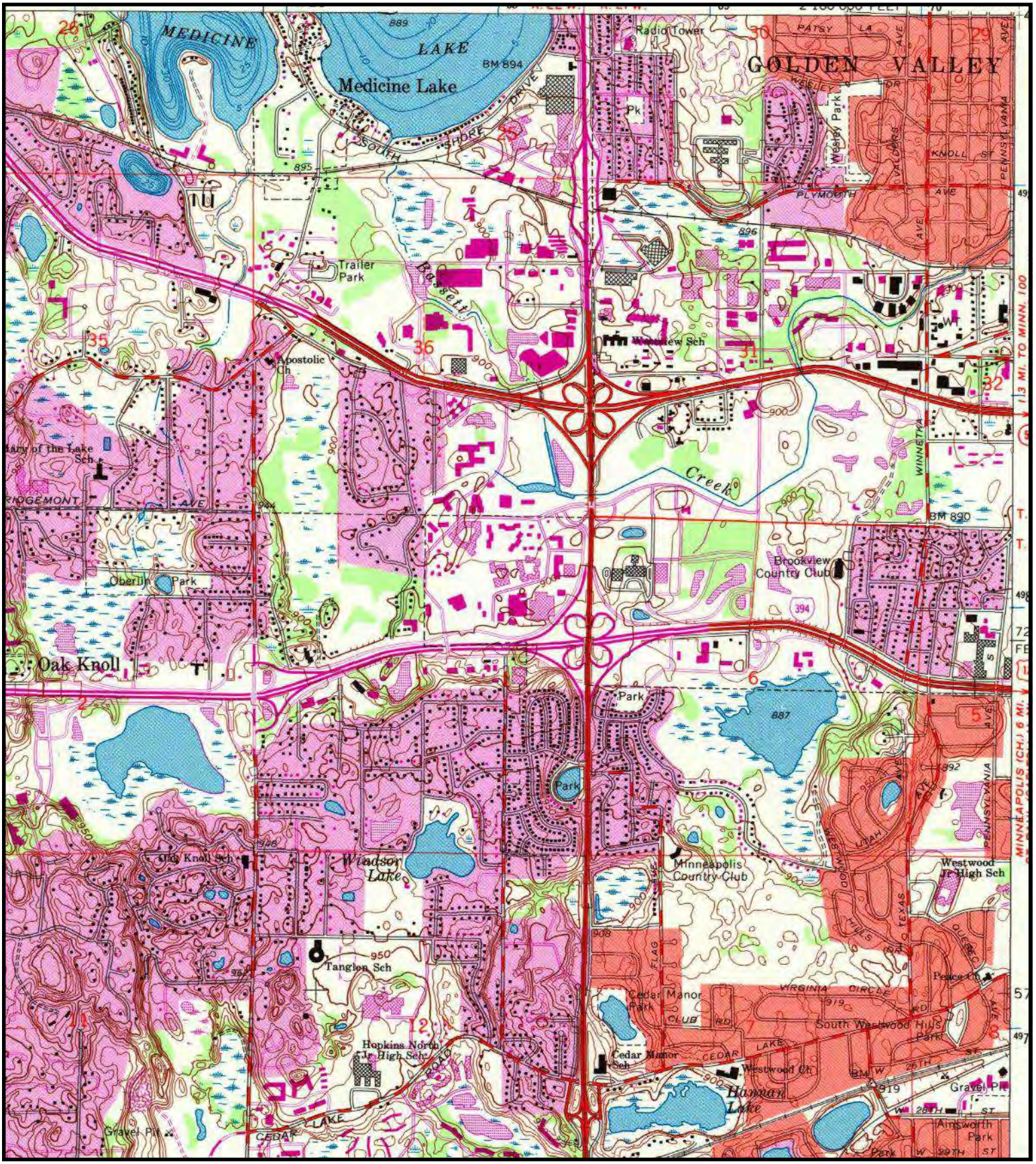
0 1,250 2,500 5,000 Feet

0 0.375 0.75 1.5 Km

HIG



1993

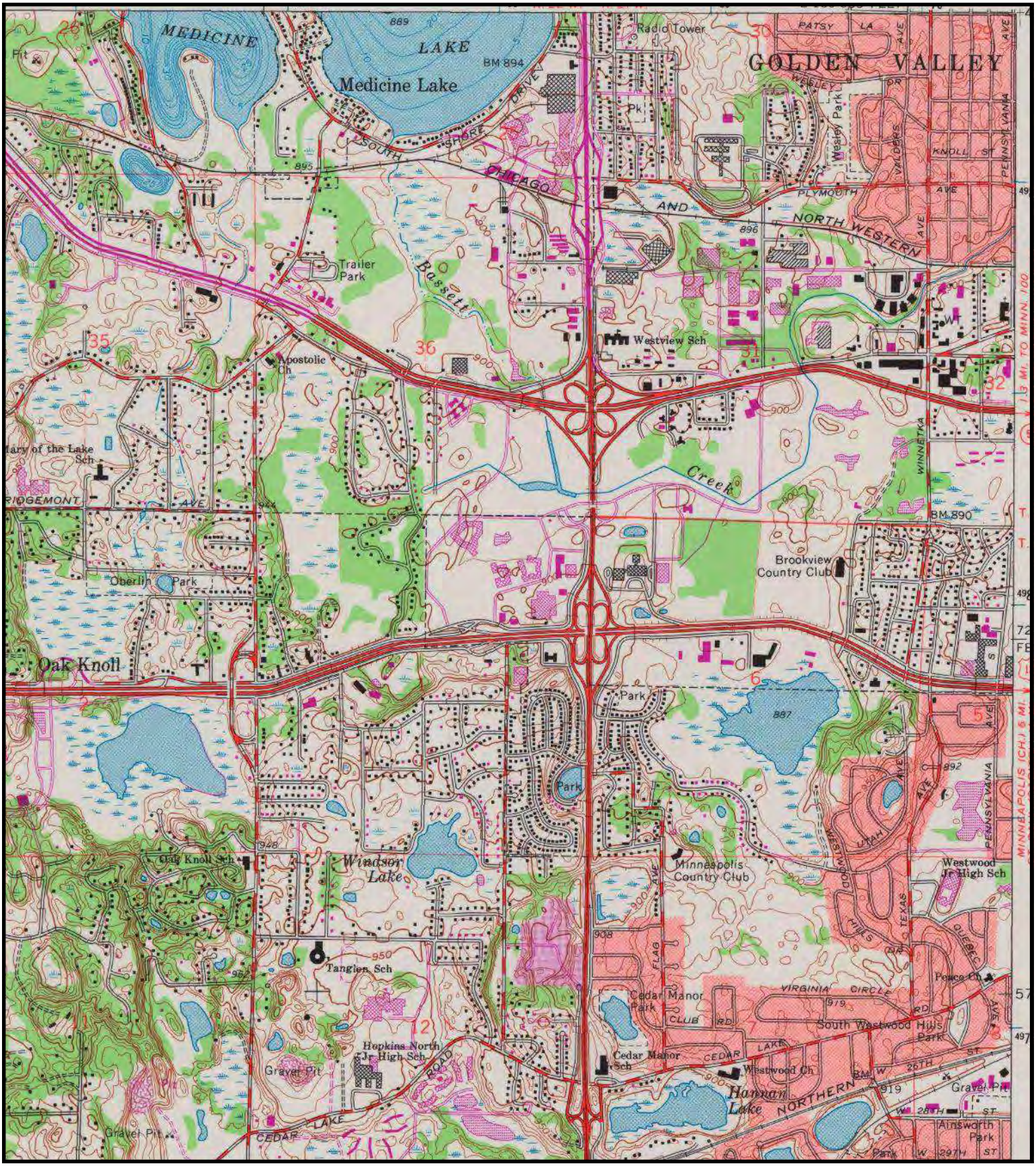
Hopkins, Minnesota Quadrangle
USGS 7.5 Minute Topographic Map

0 0.2 0.4 0.8 Miles

0 1,250 2,500 5,000 Feet

0 0.375 0.75 1.5 Km

HIG



1980

Hopkins, Minnesota Quadrangle
USGS 7.5 Minute Topographic Map

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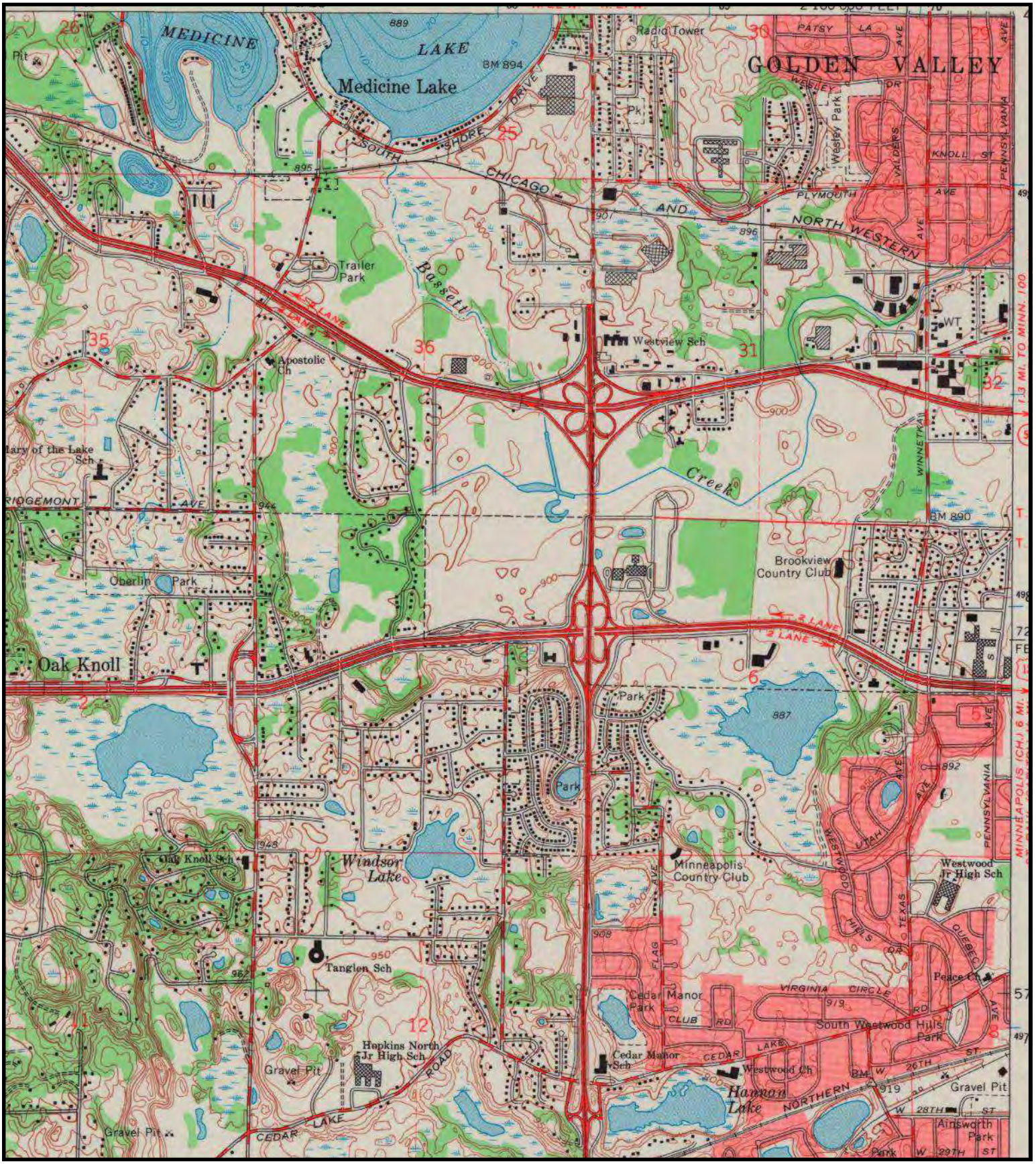
0 0.375 0.75 1.5 Km



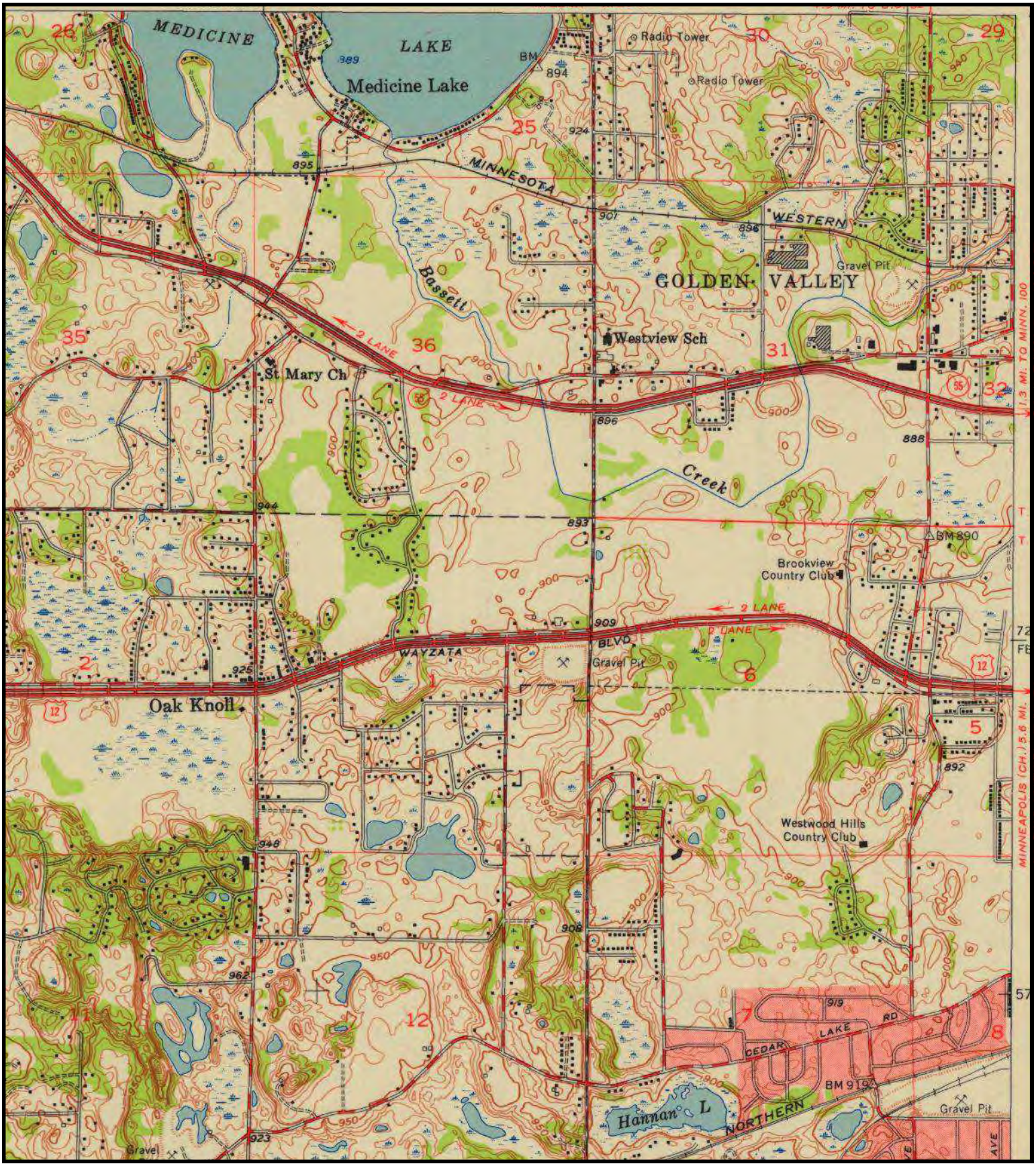
1967

Hopkins, Minnesota Quadrangle
USGS 7.5 Minute Topographic Map

0 0.2 0.4 0.8 Miles

0 1,250 2,500 5,000 Feet

0 0.375 0.75 1.5 Km



1954
Hopkins, Minnesota Quadrangle
USGS 7.5 Minute Topographic Map

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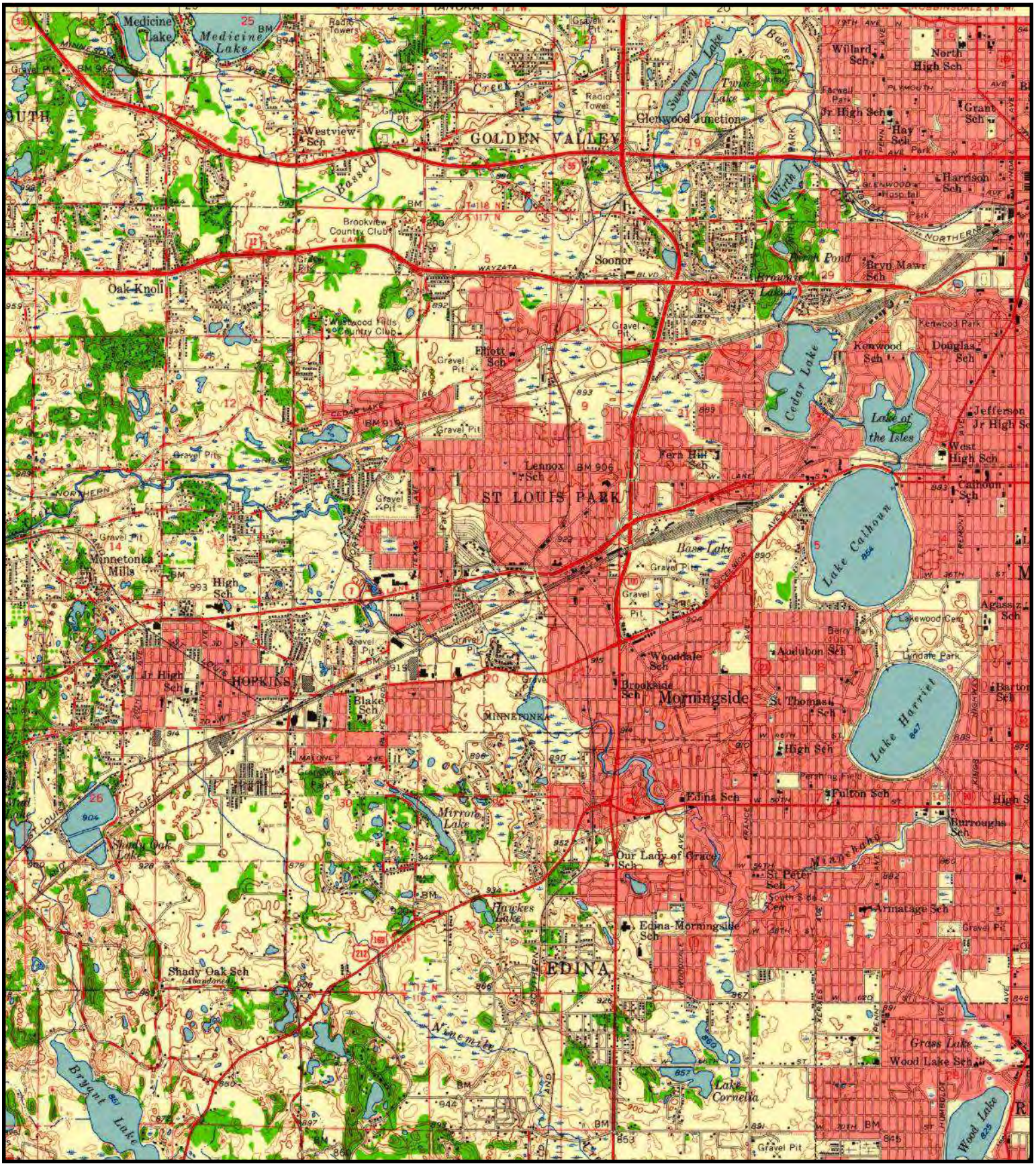
0 1,250 2,500 5,000 Feet
0 0.375 0.75 1.5 Km



1954

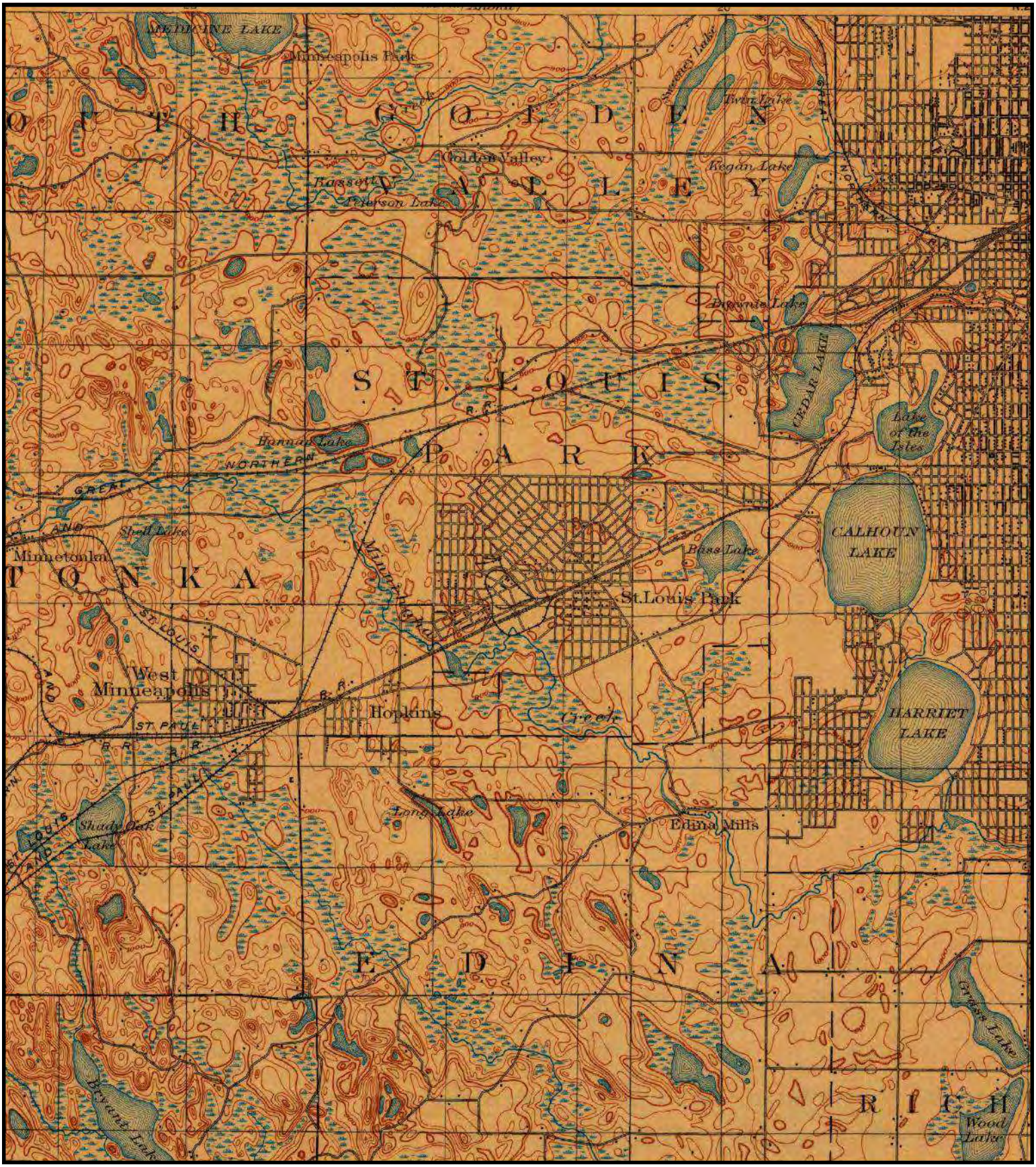
Minneapolis, Minnesota Quadrangle
USGS 15 Minute Topographic Map

0 0.5 1 2 Miles

0 3,200 6,400 12,800 Feet

0 1 2 4 Km

HIG



1901

Minneapolis, Minnesota Quadrangle
USGS 15 Minute Topographic Map

0 0.5 1 2 Miles

0 3,200 6,400 12,800 Feet

0 1 2 4 Km

1896

Minneapolis, Minnesota Quadrangle
USGS 15 Minute Topographic Map

0 0.5 1 2 Miles

0 3,200 6,400 12,800 Feet

0 1 2 4 Km

HIG

1896

Minneapolis, Minnesota Quadrangle
USGS 15 Minute Topographic Map

0 0.5 1 2 Miles

0 3,200 6,400 12,800 Feet

0 1 2 4 Km

HIG

APPENDIX F

Site Reconnaissance Photos
2015 Bassett Creek Main Stem Restoration Project
Golden Valley, MN

Photo 1: Pennsylvania Ave Bridge, facing east

Photo 2: Residential yard, facing north

Photo 3: Wooded creek section, facing east

Photo 4: Residential yards, facing west

Site Reconnaissance Photos
2015 Bassett Creek Main Stem Restoration Project
Golden Valley, MN

Photo 5: Golf course, facing north

Photo 6: Subterranean culvert, facing east

Photo 7: Golf course storage bldg., facing north

Photo 8: Golf course storage bldg., facing east

Site Reconnaissance Photos
2015 Bassett Creek Main Stem Restoration Project
Golden Valley, MN

Photo 9: 15,000 gallon water tank, facing west

Photo 10: Residential yard, facing south

Photo 11: Hampshire Ave. Bridge, facing west

Photo 12: Residential yards, facing east

Site Reconnaissance Photos
2015 Bassett Creek Main Stem Restoration Project
Golden Valley, MN

Photo 13: Residential yards, facing east

Photo 14: Florida Ave. N. Bridge, facing west

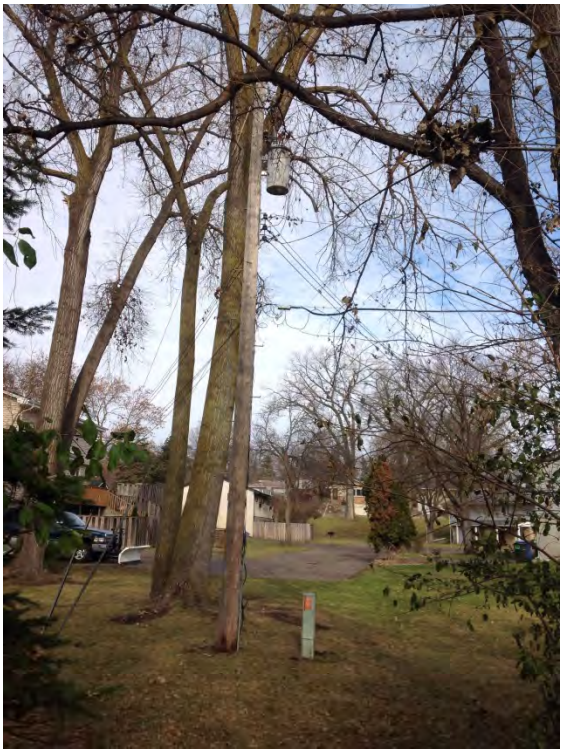


Photo 15: Transformer, facing north

Photo 16: Multifamily housing, facing north

Site Reconnaissance Photos
2015 Bassett Creek Main Stem Restoration Project
Golden Valley, MN

Photo 17: Railroad Bridge, facing east

Photo 18: Multifamily housing, facing south

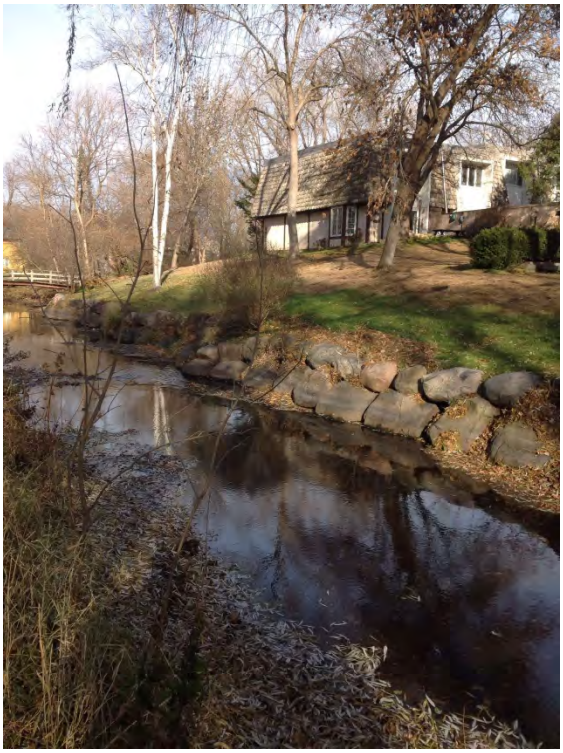


Photo 19: Multifamily housing, facing east

Photo 20: Residential yard, facing north

Site Reconnaissance Photos
2015 Bassett Creek Main Stem Restoration Project
Golden Valley, MN

Photo 21: Senior living center, facing north

Photo 22: St. Croix Ave. Bridge, facing north

Photo 23: Waling trail, facing east

Photo 24: Residential yard, facing north

Site Reconnaissance Photos
2015 Bassett Creek Main Stem Restoration Project
Golden Valley, MN

Photo 25: Commercial building, facing south

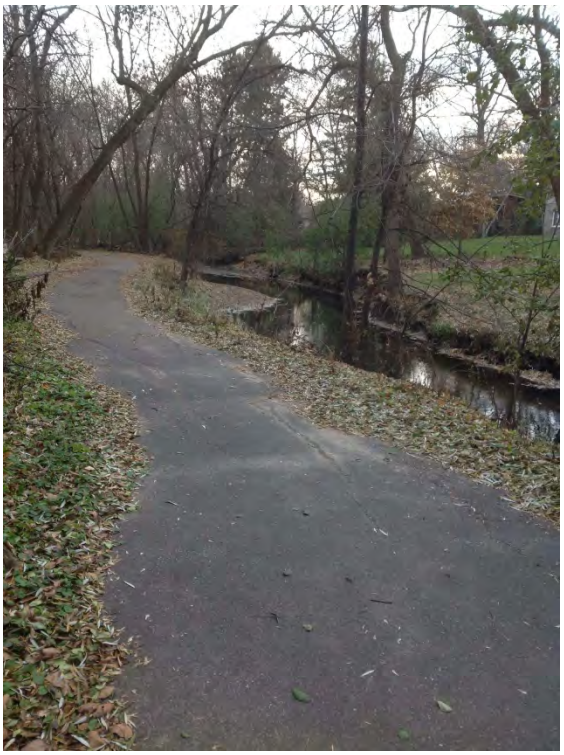
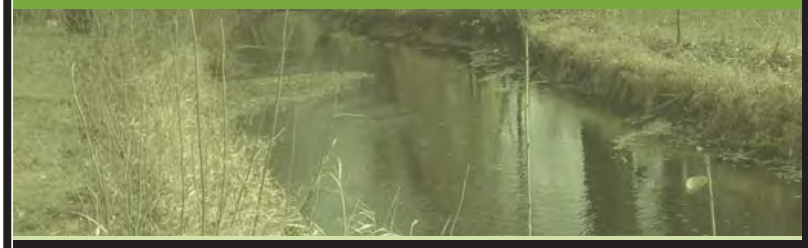


Photo 26: Walking trail, facing south

Photo 27: Wetland, facing east

Photo 28: Playground, facing east



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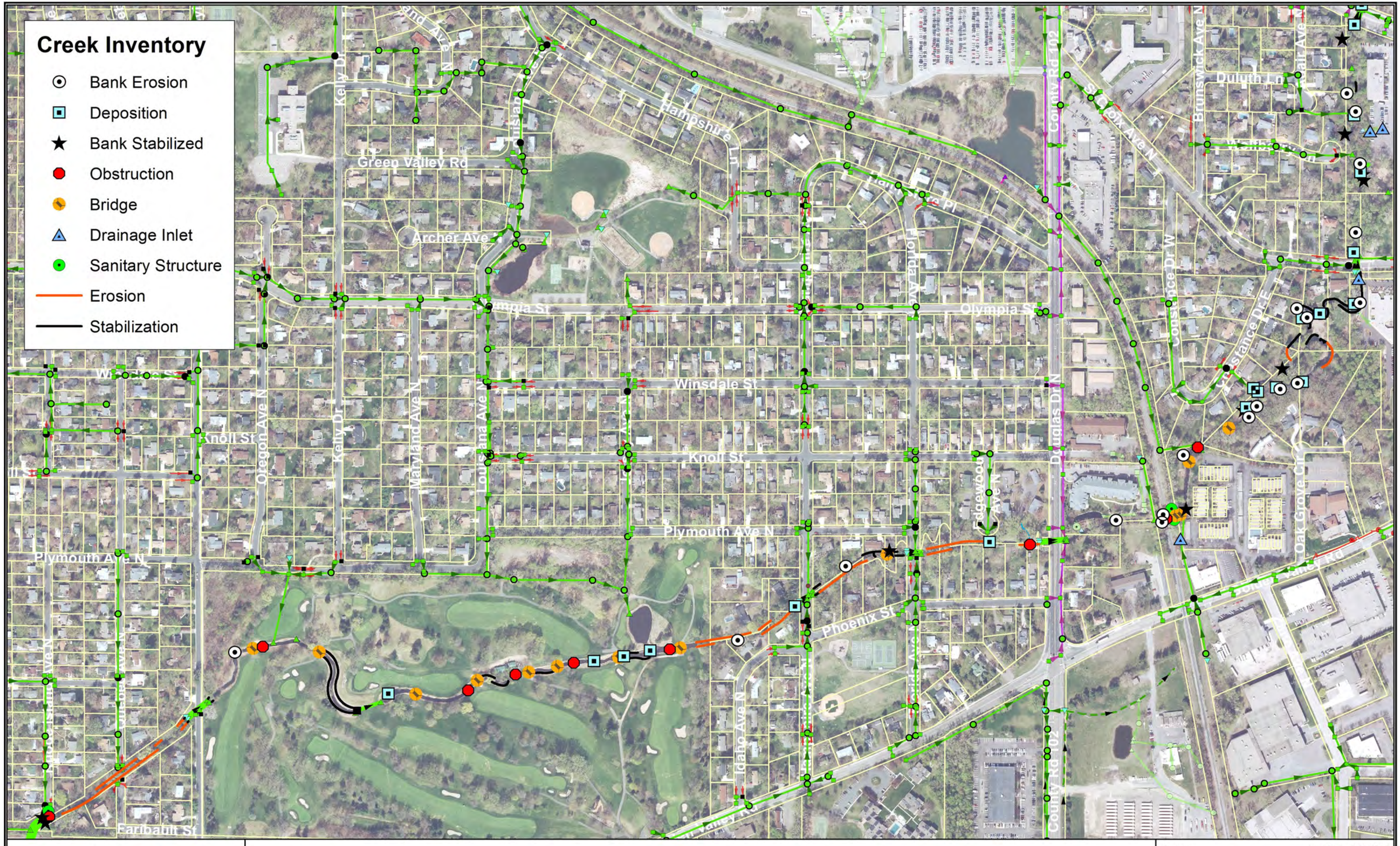
2015 Bassett Creek Restoration Feasibility Study

Appendix F

2013 City of Golden Valley Streambank Erosion Inventory



city of golden valley

2015 Creek Restoration Project

Sources:
-Hennepin County Surveyors Office for Property Lines (2013) & Aerial Photography (2012).
-MnDNR for 2-Foot Contours (2011)
-City of Golden Valley for all other layers.

Print Date: 1/31/2014

1 inch = 400 feet

0 200 400 800 Feet