

NONMETALLIC MINE RECLAMATION PLAN

ON THE

K & S CRANBERRY, LLC FRAC SAND PIT

TOWN OF LINCOLN

MONROE COUNTY,

WISCONSIN

Prepared for:

**Mr. Kevin Griffin
23108 Aspen Ave
Warrens, WI 54666
Kevgriff23108@icloud.com**

April 26, 2018

Prepared By:

**BRIAN CAMLEK
WATER RESOURCE SPECIALIST
RECOGNIZED USACE & WDNR WETLAND CONSULTANT**

AND

**GARY W. STARZINSKI
LICENSED PROFESSIONAL SOIL SCIENTIST
WDNR ASSURED WETLAND DELINEATOR**

**STAR ENVIRONMENTAL, INC.
(715) 443-6115
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NONMETALLIC MINE RECLAMATION PLAN
ON THE
K & S CRANBERRY, LLC FRAC SAND PIT

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NONMETALLIC MINE RECLAMATION PLAN

ON THE

K & S CRANBERRY, LLC FRAC SAND PIT

Introduction

This proposed Frac Sand Pit is located in the SE1/4,NW1/4 and NE1/4,SW1/4, Section 8, T.19N.-R.1W., Town of Lincoln, Monroe County Wisconsin. The Pit is owned by Mr. Kevin Griffen and will be approximately 41 acres in size. Machinery to be used include backhoes, dump trucks and a portable washer. No driers or permanent structures are proposed at this time. No crushing, blasting or dewatering is proposed. If needed, approved flocculants will be used as permitted by the Department of Natural Resources.

Existing Site Conditions

The site is an active cranberry operation consisting of a reservoir, five beds and haul roads. Adjacent surrounding area consists of wooded land. The site is internally drained as a result of adjacent landscape, cranberry beds and reservoir.

Mineable Material Description

Area to be excavated is mapped as the Psammaquents Soil Series or “wet sand” and refers to the existing cranberry beds. The parent material, or mineable materials consists of alluvial silicate sands typical of the adjacent mapped Tarr and Tint Sand Soil Series. The presence of this material has been verified by past excavations by the Owner.

Total excavation depth will be approximate elevation 1010.5 or 15 feet below groundwater.

Site Hydrology

Groundwater was observed at approximate elevation 1025.5 in the reservoir and is the anticipated water elevation of the resulting pond.

There are no navigable waterways within 500 feet of the site and Per the FEMA Floodplain Maps, this area is not located within a Floodplain.

The existing site is internally drained as a result of the natural surrounding landscape and the existing beds and reservoir. During excavation, the site will remain internally drained, no dewatering is proposed and all surface water runoff and wash water will be contained within the permitted area. Per the surface water data viewer wetland inventory map, this area is mapped as a wetland. All areas within the proposed site have been altered from cranberry activities, no natural landscape or wetland system is present.

Adjacent Biological Resources

The surrounding areas consist of wooded land. Typical wildlife consists of deer, fox, coyotes, birds and other wildlife common to this part of the state.

Stockpiled Material Location

All stripped topsoil will be stockpiled within the permitted area until used for reclamation.

Excavated sand will be washed by the portable wash plant and stockpiled within the internally drained Pit until needed.

Mining Process

Mining will be completed in 1 Phase. Prior to excavation of an area, the surface 12 inches of organically rich topsoil will be removed from the cranberry beds and stockpiled until reclamation.

The existing reservoir will be used as a source of water for the Portable Wash Plant. Prior to washing, two rock check dams will be constructed as shown on the "Working Map" and remain until the portable wash plants have been removed. Water will be pumped to the portable wash plant then discharged back to the reservoir for fines to settle. After the portable wash plant has been removed and no material washing is occurring, the berms will be excavated and material sold.

Material will be excavated at 3:1 or flatter to a minimum depth of 6 feet below water elevation with a backhoe and hauled onsite to the portable wash plant with dump trucks. After material has been washed it will be stockpiled to dry until needed. No drier is proposed.

Excavation will result in a pond, with an anticipated bottom elevation of approximately 1010.5 or 15 feet below groundwater.

Conservation Practices

This site is internally drained, surface water runoff to the adjacent landscape will not occur. All mining activities will be confined within the permitted area, no alteration to the surrounding landscape is proposed.

Area for wash water discharge will have surrounding berms and rock check dams for water clarification. If needed, approved flocculants will be used as permitted by the Department of Natural Resources.

Fueling will be completed with a portable fuel tank and conducted on level ground, away from open water.

Post Mining Site Information

After mining is complete, sideslopes will 3:1 or flatter to a minimum depth of 6 feet below water elevation. Areas above water elevation will be topsoiled, seeded and mulched per Attachment 2. The resulting pond will be used for wildlife and recreational purposes.

The only manmade features planned for this site is the resulting pond, haul roads and safety ramp. No structures or other features are planned at this time. All machinery will be removed after site is reclaimed per Monroe County Zoning requirements.

Final Reclamation

Final Reclamation will be completed when mining is complete. Reclamation may also occur at the Operators discretion as areas of the Pit have been fully excavated. Reclamation will include topsoil sideslopes with a minimum of 6 inches of stockpiled topsoil to water elevation then immediately seeded and mulched as needed. Sideslopes are to be 3:1 or flatter to a minimum of 6 feet below water elevation. The safety ramp will have a slope of 8:1 or flatter to the Pit Bottom.

The site will be considered reclaimed when a minimum 70% vegetation cover is established along sideslopes and verified by Monroe County Zoning.

Conclusion

This Reclamation Plan indicates this site is internally drained. This report should be beneficial for reclaiming the site after mining is complete.

Final authority rests with Monroe County Zoning and the Wisconsin Department of Natural Resources.

This report is the professional opinion of Brian Camlek, Water Resource Specialist and Gary W. Starzinski, Licensed Professional Soil Scientist, WDNR Professionally Assured Wetland Delineator.



Brian Camlek, Water Resource Specialist,
Quality Assurance Quality Control Specialist,
Recognized USACE & WDNR Wetland Consultant

April 26, 2018
Date



Gary W. Starzinski, Licensed Professional Soil Scientist,
WDNR Professionally Assured Wetland Delineator

April 26, 2018
Date



ATTACHMENT 1

PROJECT SITE MAPS

Figure 1 - Location Map

Figure 2 - Soil Map

Figure 3 - Soil Legend

Figure 4 - Monroe County Zoning 10 Foot Contour Map

Figure 5 - Surface Water Data Viewer-Wetland Map

Figure 6 - FEMA Floodplain Map

Figure 7 - Adjacent Property Owners Map

Figure 8 - Adjacent Property Owners Contact Info

Figure 9 - Existing Map

Figure 10 – Working Map

Figure 11 - Reclamation Map

Figure 12 - NMM Cross Sections

Location Map

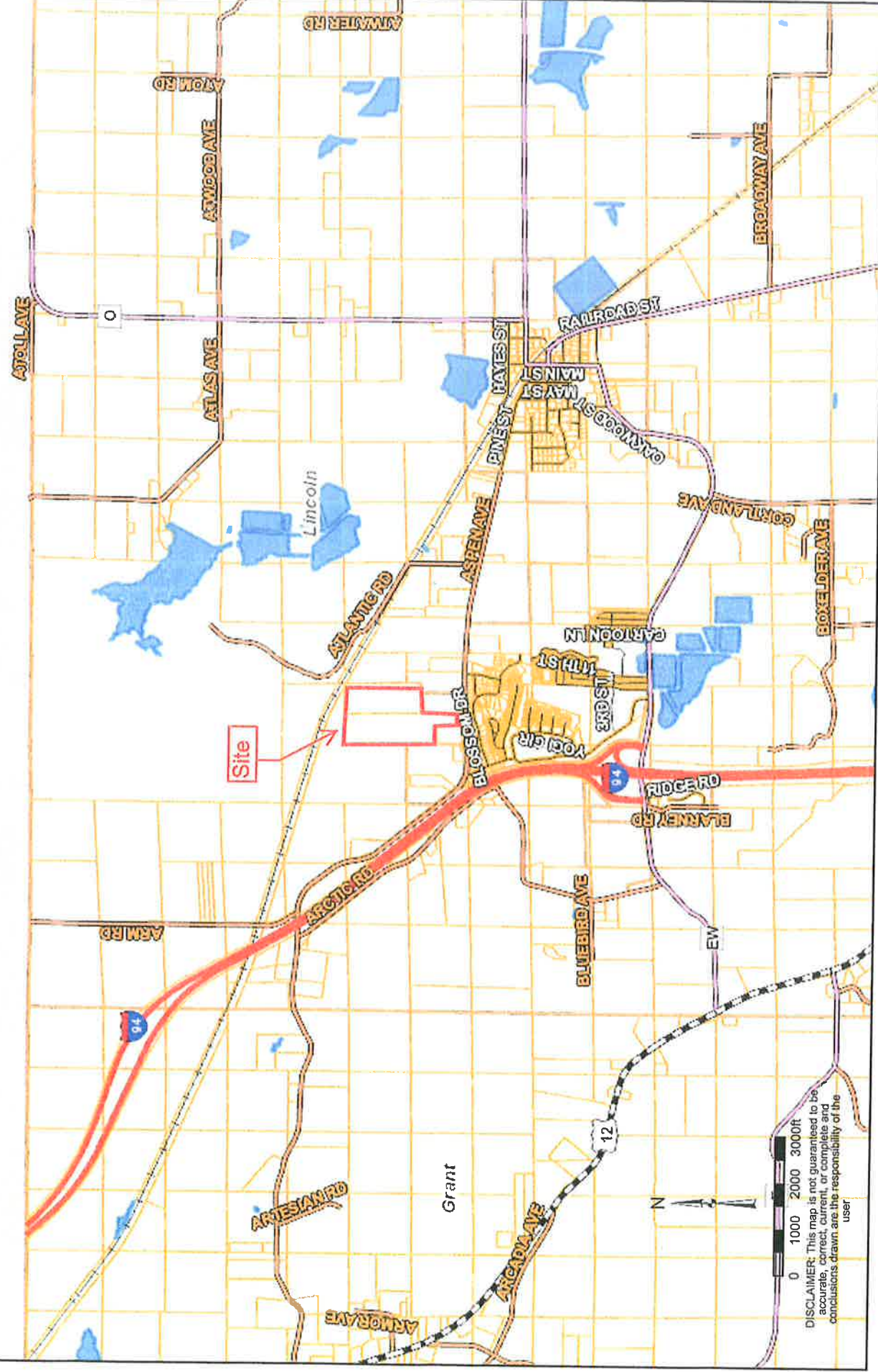


Figure 1



Figure 2

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
17A	Dawsil mucky peat, lake plain, frequently ponded, 0 to 1 percent slopes	6.1	6.2%
224C2	Elevasil sandy loam, 6 to 12 percent slopes, moderately eroded	0.6	0.6%
233C	Boone sand, 6 to 15 percent slopes	4.4	4.4%
561B	Tarr sand, 1 to 6 percent slopes	0.1	0.1%
561C	Tarr sand, 6 to 15 percent slopes	12.8	13.0%
566A	Tint sand, 0 to 3 percent slopes	5.9	6.0%
1224F	Boone-Elevasil complex, 15 to 50 percent slopes	18.3	18.5%
1233F	Boone-Tarr sands, 15 to 50 percent slopes	7.0	7.1%
1548A	Majik, cool-Ponycreek complex, lake plain, 0 to 3 percent slopes	2.0	2.0%
2099	Psammaquents, nearly level	32.0	32.3%
W	Water	9.6	9.7%
Totals for Area of Interest		98.9	100.0%



Figure 3

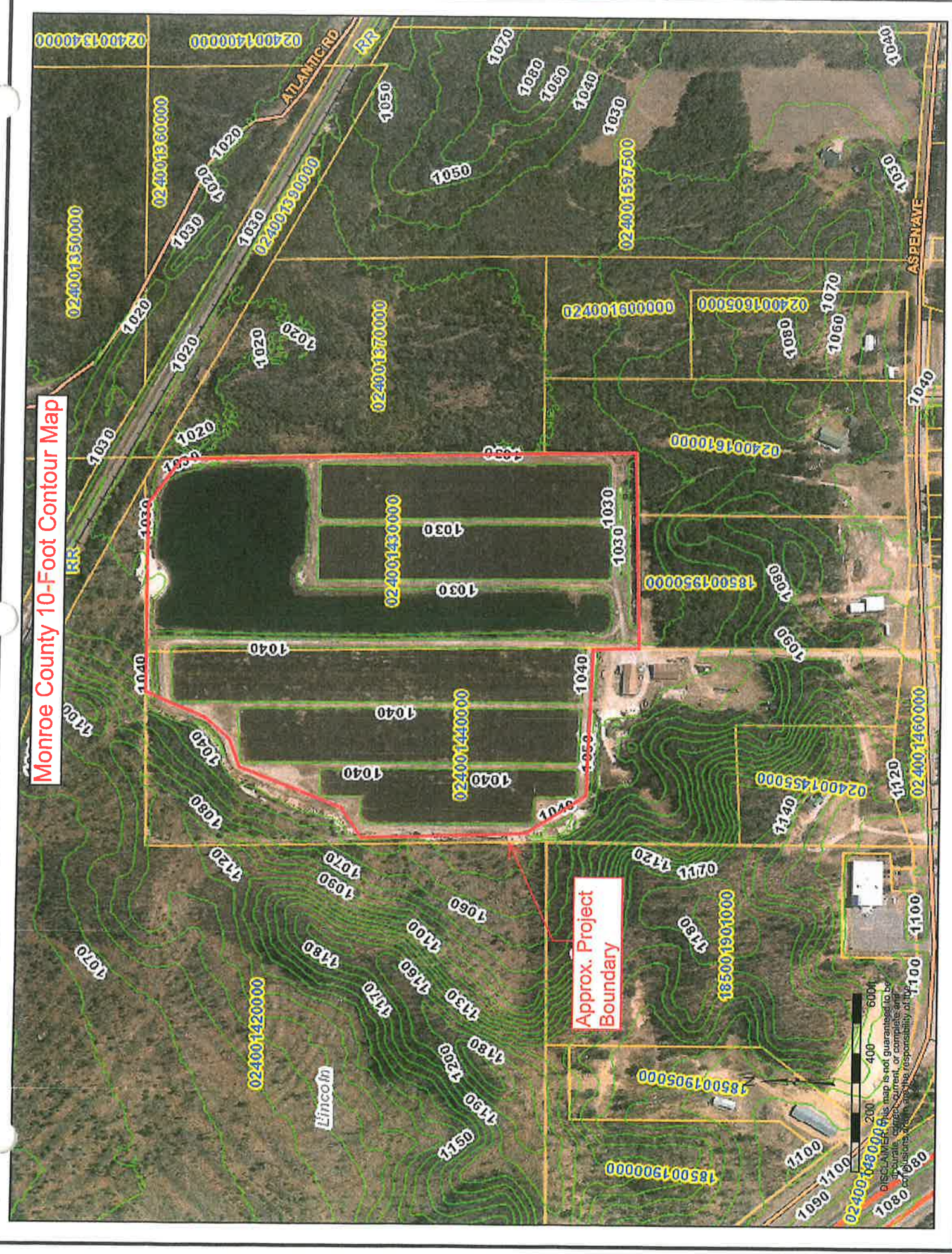
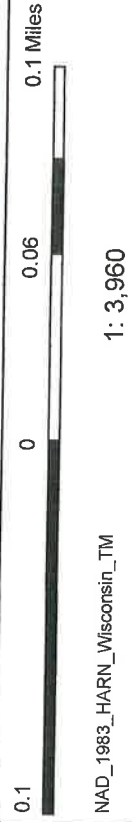


Figure 4



DISCLAIMER: The information shown on these maps has been obtained from various sources, and are of varying age, reliability and resolution. These maps are not intended to be used for navigation, nor are these maps an authoritative source of information about legal land ownership or public access. No warranty, expressed or implied, is made regarding accuracy, applicability for a particular use, completeness, or legality of the information depicted on this map. For more information, see the DNR Legal Notices web page: <http://dnr.wa.gov/legal/>

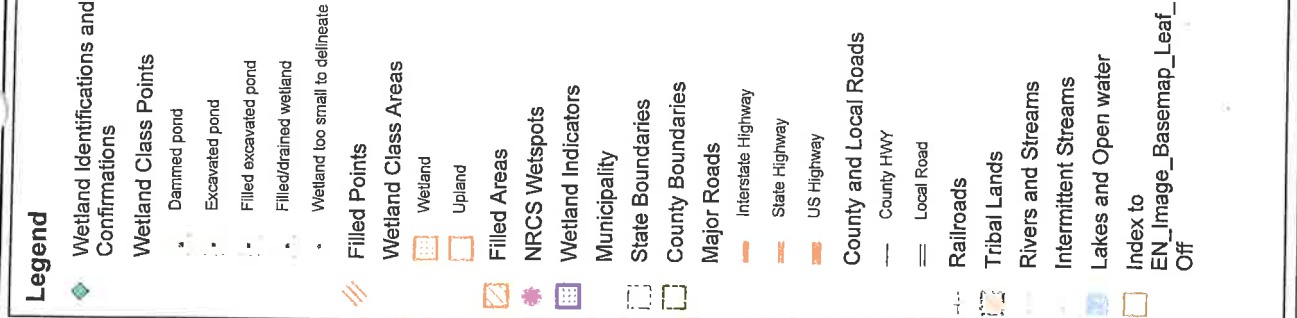
NAD_1983_HARN_Wisconsin_TM

1:3,960

0.1 Miles

Notes

Figure 5





Floodplain Map



Legend

Dams

- Dams with FERC License
- Dams

Floodplain Analysis Lines

- Other
- Flood Insurance Study
- Letter of Map Revision
- Case By Case Analysis
- Bridge

Floodplain Analysis Points

- Other
- Flood Insurance Study
- Letter of Map Revision
- Case By Case Analysis
- Bridge

Floodplain Storage

- Statewide Non-digitized FIRM Index
- FIRM Panels
- Cross-Sections

Flood Hazard Boundaries

- Other Boundaries
- Limit Lines
- SFHA / Flood Zone Boundary

Flood Hazard Zones

- 1% Annual Chance Flood Hazard
- Regulatory Floodway
- Special Floodway
- Area of Undetermined Flood Hazard
- 0.2% Annual Chance Flood Hazard
- Future Conditions 1% Annual Chance Flood Hazard
- Area with Reduced Risk Due to Levee

Municipality

0.1 Miles

0.06 Miles

0 Miles

1: 3,960

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Notes

Figure 6

NAD_1983_HARN_Wisconsin_TM



Figure 7

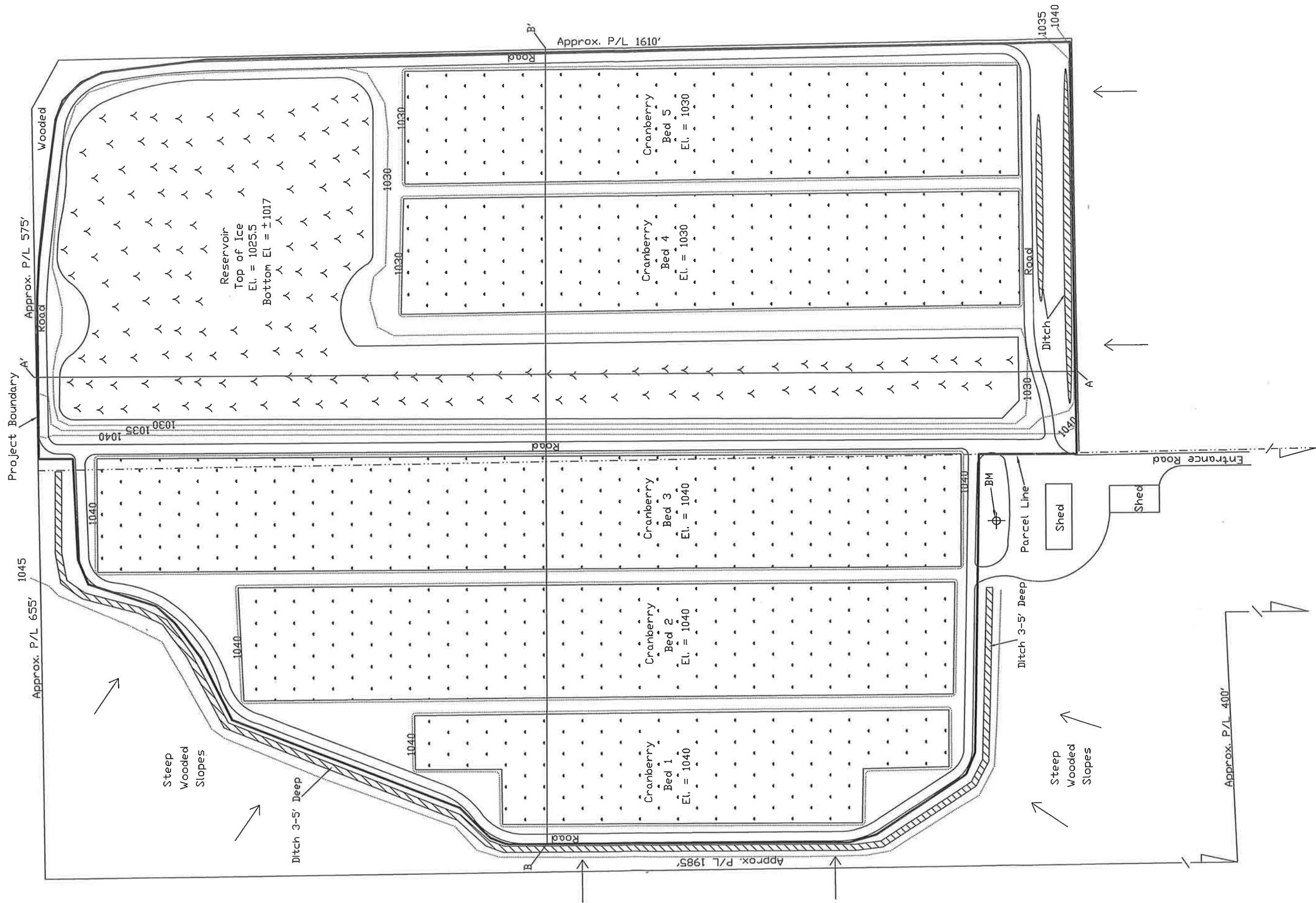
ADJACENT LANDOWNERS LIST

- 1) Monroe County Forest Lands
14345 County Highway B Suite 5
Sparta, WI 54656
- 2) Castle Rock Cranberry Bogs, LLC
2502 Atlantic Rd
Warrens, WI 54666
- 3) Kevin Griffin
23108 Aspen Ave
Warrens, WI 54666
- 4) Bruce Bryant
213 N Friendswood Dr
Friendswood, TX 77546
- 5) Kevin Williams
23396 Aspen Ave
Warrens, WI 54666
- 6) Robert Marten
23538 Aspen Ave
Warrens, WI 54666

Project:
K&S Cranberry, LLC - Kevin Griffin
Pt. SE1/4,NW1/4 & NE1/4,SW1/4,Sec.8,T19N,R1W
Town of Lincoln, Monroe County
PIN#s: 024-00143-0000 & 024-00144-0000

Existing Site Conditions
Surveyed: 2-12-18
Drafted: 4-23-18

Created By:
Star Environmental, LLC
PO Box 434 Marathon, WI 54448
Phone: (715) 443-6115
Email: Starenviroental@hotmail.com



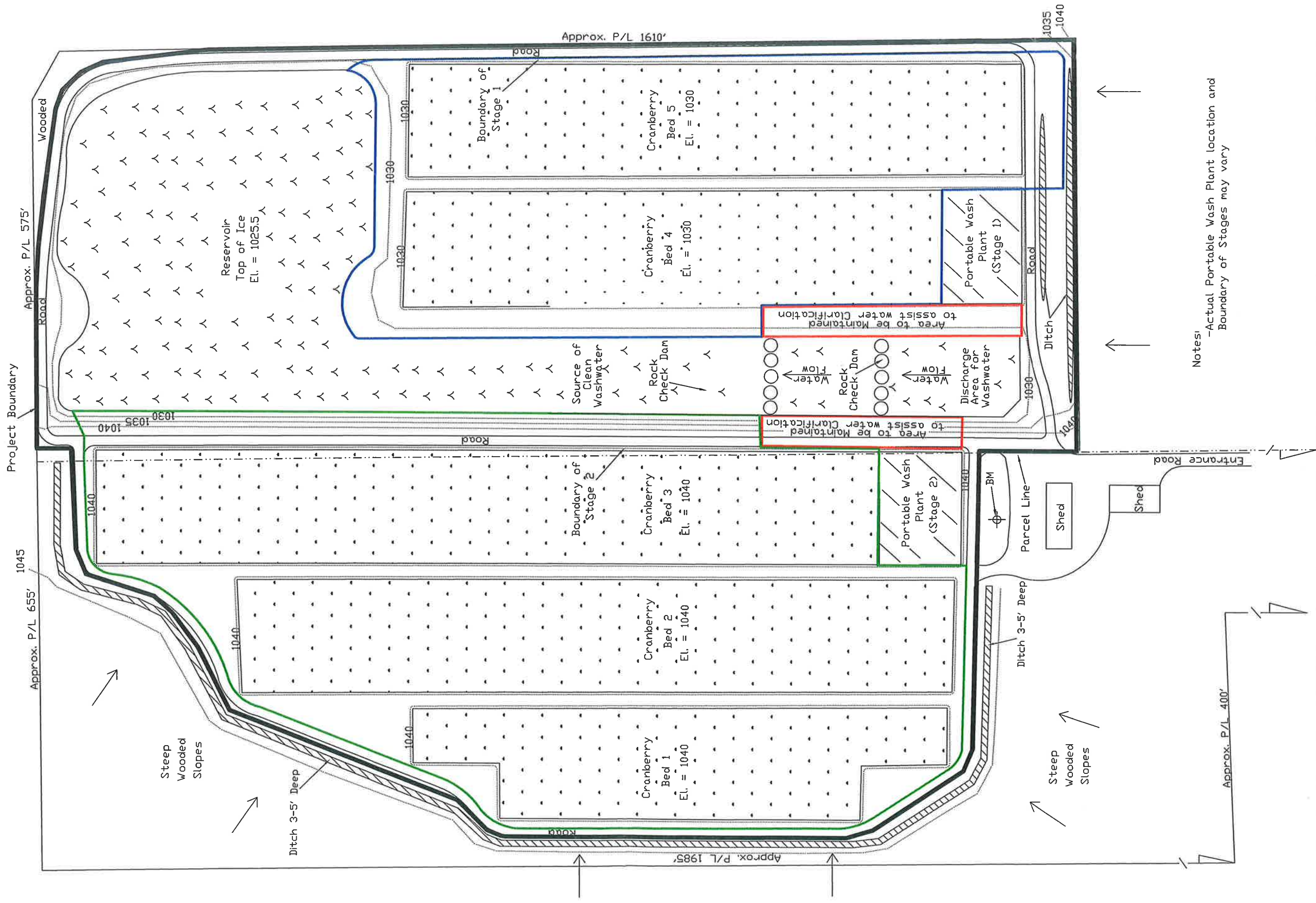
Scale 1" = 150'
Unless Noted
This is not a Certified Survey Map

Legend:
⊕ BM Top of Well Casing
El. = 1043.83
/ Project Boundary
(Approx. 41 Acres)

Project: K&S Cranberry, LLC - Kevin Griffin
Pt. SE1/4,NW1/4 & NE1/4,SW1/4,Sec.8,T19N,R1W
Town of Lincoln, Monroe County
PIN#s: 024-00143-0000 & 024-00144-0000

Working Map
Surveyed: 2-12-18
Drafted: 4-23-18

Created By: Star Environmental, Inc.
PO Box 434 Marathon, WI 54448
Phone: (715) 443-6115
Email: Starenvironmental@hotmail.com



Legend:

Scale 1" = 150'
Unless Noted
This is not a Certified Survey Map

BM Top of Well Casing
El. = 1043.83

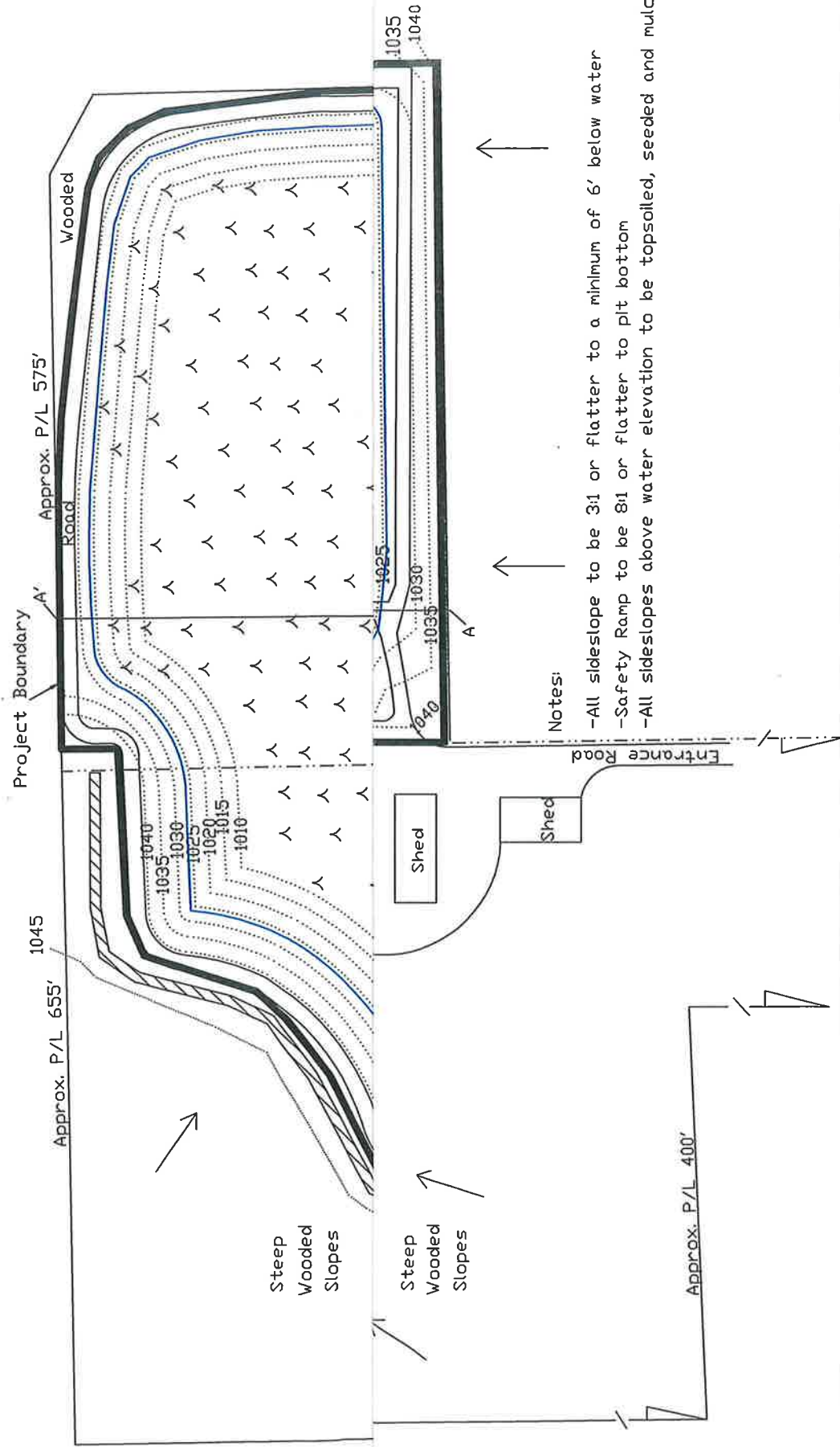
Project Boundary
Approx. 41 Acres
Approx. Stage 2
Approx. Stage 2
Berns to be Maintained
to assist Water Clarification

Project:
K&S Cr...ry, LLC - Kevin Griffin
Pt. SE1/4,NW1/4 & NE1/4,SW1/4,Sec.8,T19N,R1W
Town of Lincoln, Monroe County
PIN#s: 024-00143-0000 & 024-00144-0000

Reclamation Map

Surveyed: 2-12-18
Drafted: 4-23-18

Created By:
Star Environmental, LLC
PO Box 434 Marathon, WI 54448
Phone: (715) 443-6115
Email: Starenvironmental@hotmail.com



Legend:



Scale 1" = 150'
Unless Noted

⊕ BM Top of Well Casing
El. = 1043.83

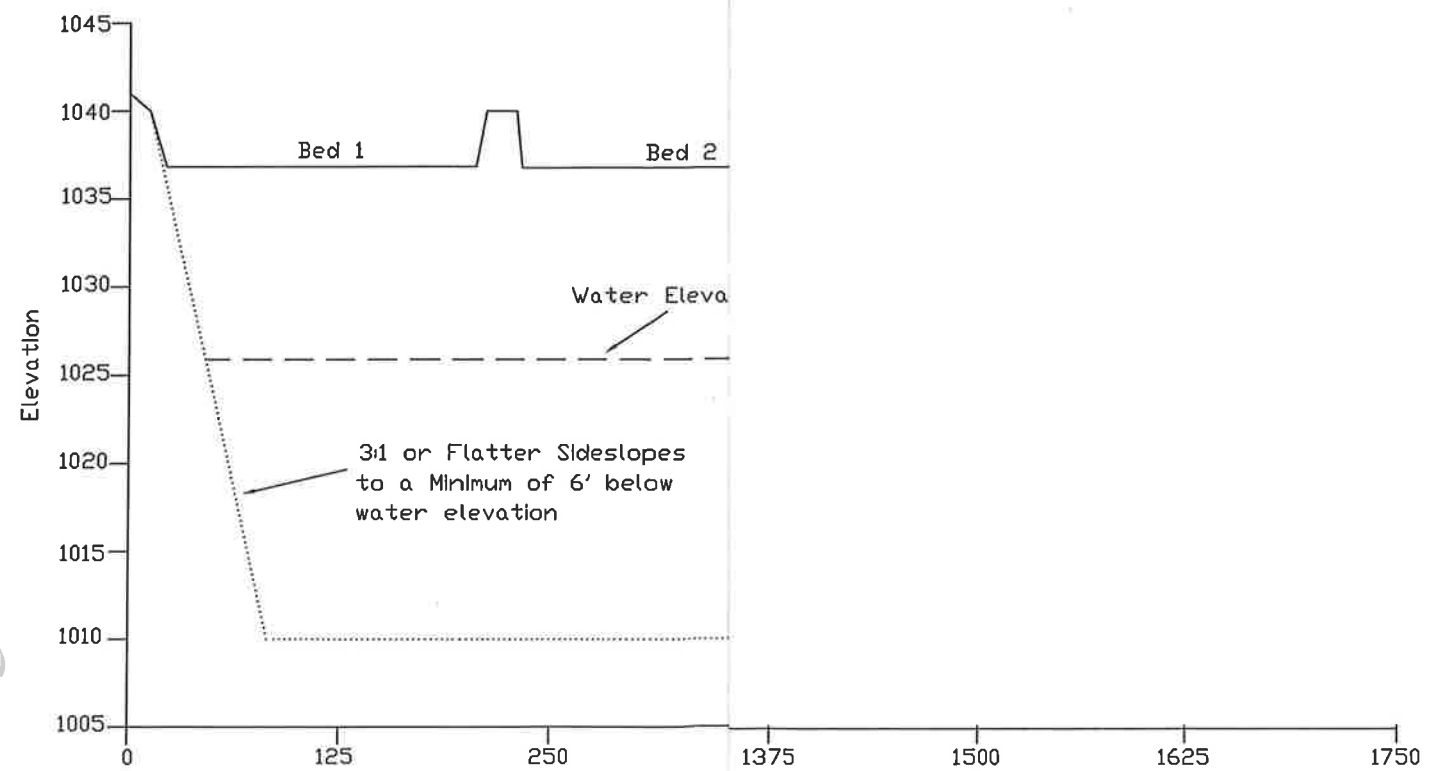
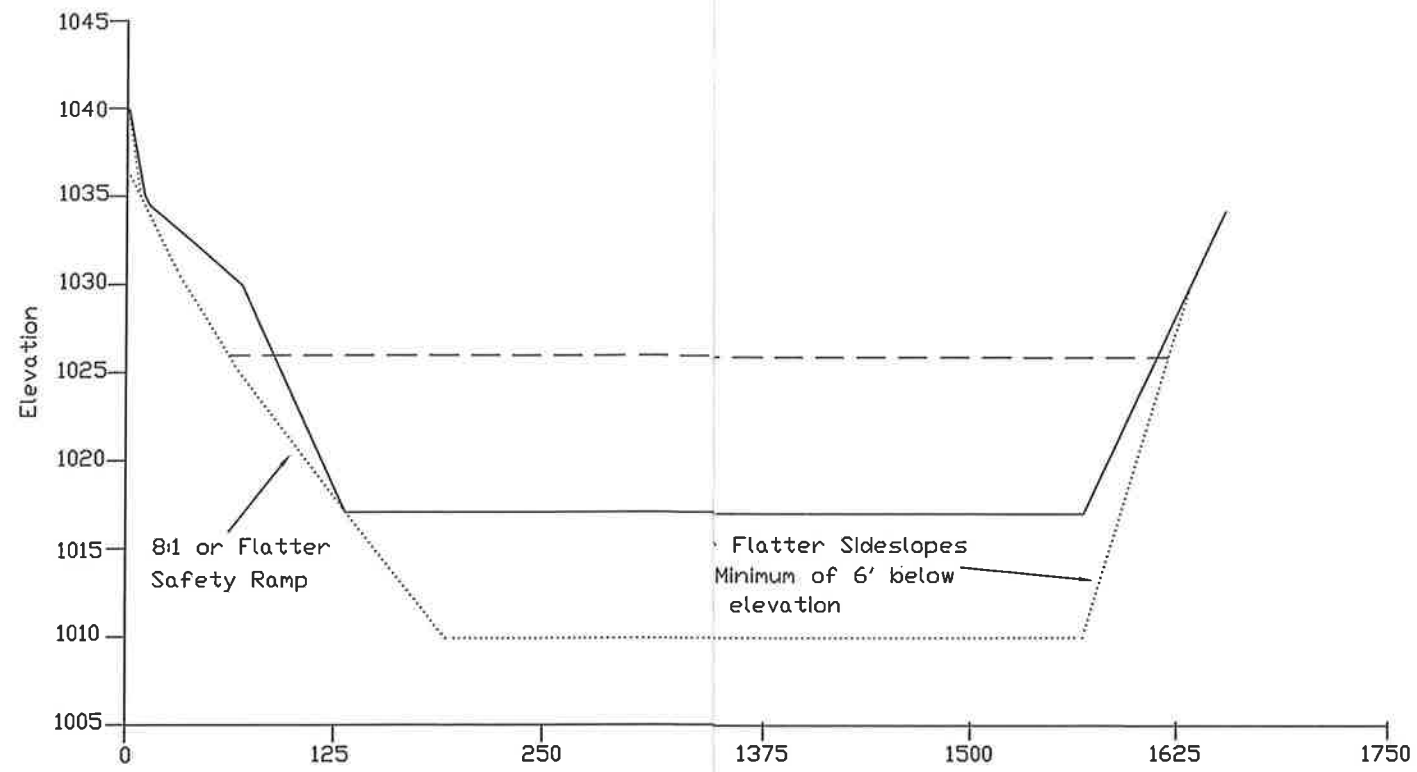
Project Boundary
(Approx. 41 Acres)

Approx. Stage 2

Approx. Stage 1

Berms to be Maintained
to assist Water Clarification

This is not a Certified Survey Map



ATTACHMENT 2

SEEDING MIXTURE

USDA-NRCS
ESTABLISHING AND MAINTAINING VEGETATION

1. Make Plans for Seeding after Construction! Seed within 24 hours after construction. If construction finishes after September 1 make a temporary seeding of Annual rye, or a dormant seeding. If a temporary seeding is done, plan to reseed in early spring. Where possible and practical, divert runoff until vegetation is established. Use soil retention blankets, jute matting, or sod in critical areas where water concentrates.
2. Obtain Needed Materials! Test soil. Secure lime, fertilizer, seed, seed inoculation and mulching materials before construction starts.
- a. Lime. If needed, apply lime at the rate of 3 tons per acre.
- b. Fertilizer. In lieu of a soil test, apply 400-600 pounds per acre of 20-10-10.
- c. Seed. Always check the label and seed in pure live seed rates.
- d. Mulch Materials. Mulch with 1/ 1/2 tons/acre of straw or hay reasonably free from grain and weed seed, or strawy manure at the rate of 6-8 T/A may be used.

Mix # __DOT 20__	SEED RATES PER ACRE AND SEED NEEDED IN POUNDS				
	Location: Sideslopes		Mix # _____	Location:	
	Acres: --6.0----			Acres:	
(From Critical Area Planting Mixtures-342)	Rate per acre	# Seed Needed	(From Critical Area Planting Mixtures-342)	Rate per acre	# Seed Needed
SPECIES			SPECIES		
Kentucky Bluegrass	7.8 lbs	156			
Hard Fescue	31.36 lbs	190			
Tall fescue	52.27 lbs	315			
Perrenial Ryegrass	49.66 lbs	300			

3. Prepare the Seedbed! THE SUCCESS OF THIS SEEDING DEPENDS ON THE PROPER SEEDBED. With a disk or harrow, work the soil to a 3-inch depth. On small areas, handwork may be necessary.
4. Mulch Properly! Spread mulch uniformly. 1 1/2 T/A is 60 bales per acre or 6-7 stems thick. Anchor mulch be pressing into the soil with a dull, weighted disc set straight or other approved methods. Work waterways crosswise when possible.
5. Seed shallow at 1/4 to 1/2 inch deep immediately after seedbed preparation. A cultipacker seeder works well. A hydro-seeder or hand seeder can be used.
6. Maintain Properly! Control weeds and undesirable woody vegetation. Delay mowing until after July 15 to accommodate ground-nesting wildlife. If pastured, always regulate grazing. Where grasses alone are used, an occasional application of fertilizer, high in nitrogen helps to maintain the stand.

ADDITIONAL COMMENTS:

K&S Cranberry, LLC

Owner

Monroe

County

Designed: Star Environmental, Inc.

ATTACHMENT 3

FLOCCULENT INFORMATION

**Soil Net LLC**

Soil and Water Engineering
Dust Control Erosion Control

1628 Waunona Way Madison WI 53713

Telephone 608-221-8129, Telefax 608-222-7658,
E-mail soilnetllc@aol.com, aicardoroa@aol.com

Material Safety Data Sheet

SOIL NET LLC
1628 Waunona Way.
Madison, WI 53713

Soil Net WD Sock™

A. IDENTIFICATION

PRODUCT NAME: TRIPAM™ (SOIL NET)
DATE: May 25, 2006
CHEMICAL NAME: Mixture
CHEMICAL FAMILY: Blended anionic polymers
FORMULA: Mixture
SYNONYMS:
MOLECULAR WEIGHT:

HMIS Rating (NPCA)

H 1 Health
F 0 Flammability
R 0 Reactivity
P * Personal Protection

* Rating Depends on Use
Degree of Hazard

4= Severe
3= Serious
2= Moderate
1= Slight
0 = Minimal

B. NON-HAZARDOUS INGREDIENTS

Non-hazardous blends of modified polymers

Nitrate and nitrite salts

Ammonium salts

Sulfate and sulfite salts

C. PHYSICAL DATA

PHYSICAL STATE: Solid tablet, yellow and purple
SPECIFIC GRAVITY: 1.2 (Water = 1)
SOLUBILITY IN WATER: Completely
ODOR/APPEARANCE: Mild coconut oil
DENSITY: 10 lb/gal

D. HAZARDS IDENTIFICATION

CONDITIONS OF FLAMMABILITY	None flammable solid.
CONDITIONS TO AVOID	When wet, causes surfaces to slightly slippery.
MEANS OF EXTINCTION	No special precautions required.
SPECIAL PROCEDURES	Wet surfaces will be slippery.
PROTECTIVE EQUIPMENT	No special precautions required
PERSONAL PRECAUTIONS	Wet surfaces will be slippery.
ENVIRONMENTAL PRECAUTIONS	No special precautions required
CLEAN UP	Flush with water, scoop and flush remaining traces with water.

E. REACTIVITY DATA

CHEMICAL STABILITY Stable, no hazardous polymerization occurs.

TRIPAM™(SOIL NET)

CONDITIONS TO AVOID INCOMPATIBLE MATERIALS	No special precautions required. The product swells in water. In caustic environments may release small amounts of ammonia.
CONDITIONS OF REACTIVITY	Stable.
POSSIBLE HAZARDOUS DECOMPOSITION PRODUCTS	Thermal decomposition may produce: nitrogen oxides, carbon oxides.

F. TOXICOLOGICAL PROPERTIES

SKIN CONTACT	Non irritating. May cause rash if skin is broken at point of contact with product.
SKIN ABSORPTION	Non toxic. Not known to be absorbed through the skin.
EYE CONTACT	Mild irritation due to effects all powders have on the eyes.
INHALATION	Mild nasal irritation.
INGESTION	Small amounts: Weakness, headache. Large amounts: Dizziness, abdominal cramps, vomiting, bloody diarrhea, weakness, convulsions and collapse.

G. PREVENTIVE AND REGULATORY MEASURES

PERSONAL PROTECTIVE EQUIPMENT	
GLOVES	Use Rubber, Neoprene, or Vinyl gloves.
RESPIRATORY	No special precautions required
EYE	No special precautions required
FOOTWEAR	No special protective shoes required.
CLOTHING	No special protective clothing required.
ENGINEERING CONTROLS	No special precautions required.
LEAK AND SPILL PROCEDURES	No special precautions required. Sweep up and scoop into suitable container for use or recycle.
WASTE DISPOSAL	Spread on land. If contaminated dispose in a properly designated landfill.
HANDLING PROCEDURES	Wash hands before breaks and at the end of working day. Handle in accordance with good industrial hygiene and safety practices. Avoid contact with broken skin and eyes.
STORAGE REQUIREMENTS	Store in dry, cool and well ventilated place.
REGULATORY INFORMATION	List: RCRA status: Not a hazardous waste CERCLA Hazardous Substances: No Toxic Chemical: No RCRA Hazardous Waste Number: Not applicable Reportable quantity (40 CFR 302): Not applicable Threshold planning quantity (40 CFR 355): Not applicable All components of this product are on the TSCA and DSL inventories. DOES NOT REQUIRE PLACARDING OR SPECIAL HANDLING

... REGULATORY INFORMATION

This product is approved for food grade by the FDA. It contains less than 0.05% acrylamide.

California Proposition 65 information:

The following statement is made to comply with California Safe Drinking Water and Toxic Enforcement Act of 1986: This product contains a chemical(s) known to the State of California to cause cancer: residual acrylamide.

H. FIRST AID MEASURES

SKIN	Wash skin with copious amounts of soap and water. If irritation or discomfort symptoms develop, seek medical attention.
EYE	Flood eyes with clean running water for at least fifteen minutes. If irritation or discomfort symptoms develop, seek medical attention.
INHALATION	Move to fresh air.
INGESTION	Give water, milk or activated charcoal and then remove by gastric lavage. Maintain blood pressure.

I. DOT TRANSPORTATION

Use suitable containers Slippery when wet.

DISCLAIMER

THE DATA CONTAINED HEREIN IS BELIEVED TO BE ACCURATE AND RELIABLE, BUT NO EXPRESSED OR IMPLIED WARRANTY IS MADE WITH REGARD TO THE ACCURACY OF SUCH DATA OR ITS SUITABILITY FOR A GIVEN SITUATION. SUCH DATA RELATES ONLY TO THE SPECIFIC PRODUCT DESCRIBED AND NOT SUCH PRODUCT IN COMBINATION WITH ANY OTHER PRODUCT. WE DISCLAIM ALL LIABILITY FOR ANY ACTIONS TAKEN OR FOREGONE ON RELIANCE UPON SUCH DATA. USERS SHOULD MAKE THEIR OWN INVESTIGATIONS TO DETERMINE THE SUITABILITY OF THE INFORMATION FOR THEIR PARTICULAR PURPOSES

ATTACHMENT 4

TAX BILLS – PROOF OF OWNERSHIP

Parcel #: 024-00143-0000

East Parcel

Valid as of 02/27/2018 01:27 PM

Alt. Parcel #: 20119-08-
2420000

TOWN OF LINCOLN
MONROE COUNTY,
WISCONSIN

Owner and Mailing Address: K & S CRANBERRY, LLC 23108 ASPEN AVE WARRENS WI 54666		Co-Owner(s):													
Districts: <table><tr><th>Dist#</th><th>Description</th></tr><tr><td>0200</td><td>VOCATIONAL SCHOOL</td></tr><tr><td>5747</td><td>TOMAH SCHOOL DIST</td></tr></table>		Dist#	Description	0200	VOCATIONAL SCHOOL	5747	TOMAH SCHOOL DIST	Physical Property Address(es): Information Not Available							
Dist#	Description														
0200	VOCATIONAL SCHOOL														
5747	TOMAH SCHOOL DIST														
Legal Description: Acres: 25.000 PART OF THE SE1/4 OF NW1/4 & NE1/4 OF SW1/4 BEING LOT 1 OF 9CSM247 #437579		Parcel History: <table><tr><th>Date</th><th>Doc #</th><th>Vol/Page</th><th>Type</th></tr><tr><td>06/26/2009</td><td>596484</td><td>/</td><td>QCD</td></tr><tr><td></td><td></td><td>193R/583</td><td>WD</td></tr></table>		Date	Doc #	Vol/Page	Type	06/26/2009	596484	/	QCD			193R/583	WD
Date	Doc #	Vol/Page	Type												
06/26/2009	596484	/	QCD												
		193R/583	WD												
Plat	Tract (S-T-R 40¼ 160¼ GL)	Block/Condo Bldg													
* I247-9CSM247	08-19N-01W SE NW	LOT 1													
I247-9CSM247	08-19N-01W NE SW	LOT 1													

2018 Valuations: Values Last Changed on 05/02/2017

Class and Description	Acres	Land	Improvement	Total
G4-AGRICULTURAL	12.300	1,400.00	0.00	1,400.00
G5-UNDEVELOPED	8.380	2,300.00	0.00	2,300.00
G7-OTHER	4.320	600.00	15,200.00	15,800.00
Totals for 2018				
General Property	25.000	4,300.00	15,200.00	19,500.00
Woodland	0.000	0.00	0.00	0.00
Totals for 2017				
General Property	25.000	4,300.00	15,200.00	19,500.00
Woodland	0.000	0.00	0.00	0.00

2018 Taxes

Taxes have not yet been calculated.

Key

* -
Primary

Parcel #: 024-00144-0000

West Parcel

Valid as of 02/27/2018 01:26 PM

Alt. Parcel #: 20119-08-
2460000

TOWN OF LINCOLN
MONROE COUNTY,
WISCONSIN

Owner and Mailing Address:

K & S CRANBERRY, LLC
23108 ASPEN AVE
WARRENS WI 54666

Co-Owner(s):

Physical Property
Address(es):

* 23158 ASPEN AVE

Districts:

Dist#	Description
0200	VOCATIONAL SCHOOL
5747	TOMAH SCHOOL DIST

Parcel History:

Date	Doc #	Vol/Page	Type
06/26/2009	<u>596484</u>	/	QCD
	<u>427122</u>	167R/415	WD

Legal Description:

Acres: 33.240

PART OF SE1/4-NW1/4 & NE1/4-SW1/4 BEING
PART OF 9CSM136 #430039, DSCR IN #596484,

Plat	Tract (S-T-R 40¼ 160¼ GL)	Block/Condo Bldg
* I136-9CSM136	08-19N-01W SE NW	
I136-9CSM136	08-19N-01W NE SW	

2018 Valuations:

Values Last Changed on
05/02/2017

Class and Description	Acres	Land	Improvement	Total
G4-AGRICULTURAL	13.500	1,500.00	0.00	1,500.00
G5M-AGRICULTURAL FOREST	14.420	18,400.00	0.00	18,400.00
G7-OTHER	5.320	4,000.00	52,600.00	56,600.00

Totals for 2018

General Property	33.240	23,900.00	52,600.00	76,500.00
Woodland	0.000	0.00	0.00	0.00

Totals for 2017

General Property	33.240	23,900.00	52,600.00	76,500.00
Woodland	0.000	0.00	0.00	0.00

2018 Taxes

Taxes have not yet been calculated.

Key

* -
Primary

ATTACHMENT 5

FINANCIAL ASSURANCE

Required Summary
for
Calculating a Proposed Financial Assurance

ITEM: (see: Attachment C for description of items, Attachment D for DNR sample costs, Attachment E for description of assurance types.)	UNITS ¹	\$/UNIT	AMOUNT
<input type="checkbox"/> Grading and regrading <input type="checkbox"/> Activities necessary to ensure soil and slope stabilization <div>Erosion control materials</div> <div>Equipment and labor</div> <div>Material will be excavated at a minimum of 3:1 or flatter sideslopes to a depth of at least 6 feet below water surface. As a result earthwork would not be needed to reshape during reclamation.</div>			
<input checked="" type="checkbox"/> Scarification of subsoil or underlying materials prior to topsoil redistribution	32 acres	\$150/acre	\$4,800
<input checked="" type="checkbox"/> Cost of obtaining or creating substitute topsoil material (if necessary) <input checked="" type="checkbox"/> Topsoil redistribution <input checked="" type="checkbox"/> Application of lime and /or fertilizer according to plan or test <div>Materials</div> <div>Equipment and labor</div> <div>0.5 feet of topsoil x 43,560 sq feet per acre = 21,780 cu ft 21,780 cu ft / 27 = 807 yds 807 yds x \$2 per yard = \$1,614 per acre</div>	32 acres	\$1,614/acre	\$51,648
<input checked="" type="checkbox"/> Revegetation: Seeding/Transplanting <div>Materials including cost of seed, fertilizer and Mulch</div> <div>Equipment and labor</div>	32 acres	\$2000/acre	\$64,000
<input type="checkbox"/> Mulching, netting or other stabilizing techniques <div>Materials</div> <div>Equipment and labor</div> <div>Note: Cost has been taken into account in previous Section.</div>			
<input checked="" type="checkbox"/> Site maintenance costs up until time of final inspection and/or recovery of financial assurance.	41 acres	\$50/acre	\$2,050
TOTAL			\$122,498 or

\$2,987.76/acre for
41 acres

Note: Cost of Scarification, Topsoil and Revegetation are based on 32 acres. The area of the reservoir was not taken into account because it is currently a pond, consistent with the proposed reclaimed conditions for this site.

Attachment D

Typical Costs for Selected Reclamation Activities

We have provided a summary for some typical reclamation activities that may be performed at a mine site during reclamation. The table below is based on a number of sources including those referenced on a Wisconsin Department of Transportation Webpage. The numbers from the summary and/or the WisDOT Webpage can be used, as appropriate, to estimate the cost for reclamation activities included in nonmetallic mine reclamation plans or in the review of financial assurance needs estimates.

The WisDOT estimates were obtained from bids on highways, bridges, and airports in the state of Wisconsin. The complete list can be found at <http://www.dot.state.wi.us/dtid/bhc/hwybids.html>. Scroll down the page a little and select the file under "Average unit price list".

Item/Element	Source ⁴
Trees - 200/ac @ \$7.50 = \$1500/ac Shrubs - 200/ac @ \$5.00 = \$1,000/ac. Understory (grasses, wildflowers & sedges) \$1,500/ac	FMC *
Seed fertilize and mulch (grass & forbs) = \$2,000 per acre	NMC **
Seed @ \$30.00 per pound	WisDOT ***
Mulch @ \$0.25 per square yard	WisDOT
Seed fertilize and mulch (savanna) @ \$2,500 per acre	NMC
Seed, fertilize and mulch @ \$2,000,00 per acre	NMC
Fertilize \$40 per CWT (100 lbs.)	WisDOT
Replace topsoil = \$2 per cubic yard	NMC
Regrade soil = \$1.50 per cubic yard	NMC
Remove (2ft.) soil = \$1.50 per cubic yard	NMC
Demolition = \$21 per cubic foot	NMC
Break up slabs = \$2.50 per square foot	NMC
On-site disposal of concrete = \$6.00/ cubic yard	NMC
Break up foundations = \$20/linear foot	NMC
Misc. erosion control (berms, riprap etc.) = \$50,000 (lump sum)	NMC

⁴ Also see references under Attachment A

Silt fence (installed) = \$0.82/linear foot	WDNR ADM.
Riprap = \$47 per cubic yard	WisDOT
Road Obliteration Bituminous = \$7 per square yard Concrete = \$11.65 per square yard	WDNR ADM.
Removal of Masonry building demolition @ \$17.80 per square foot Removal of Wood building demolition @ \$13.15 per square foot	WDNR ADM.
Landfill disposal of above @ \$20 to \$50 per ton	Dave Misterek, WDNR, Oshkosh Office
Surveying (property boundary, perimeter etc.) @ \$1.04 /linear ft.	WDNR ADM.
Hauling –10 mile round trip @ \$15/ cubic yard	WDNR ADM.
Average per acre reclamation cost for surface coal reclamation = \$5,500 (this very general per acre cost is based upon numerous sites in the state and is provided only to give a benchmark)	State of Pennsylvania Department of Environmental Protection, Bureau of Mining and Reclamation
Marker Posts = \$44.00 per linear foot	WisDOT
Culvert Pipe (12 INCH) = \$ 92.00	WisDOT
Remove culverts @ \$2.00 per linear foot	FMC
Downspout (6-inch) = \$150 per linear foot	WisDOT
Abandoning wells = \$1,250	WisDOT

- * FMC = Flambeau Mining Company; data for reclaimed Flambeau Mine (Ladysmith, WI): 1989.
** NMC = Nicolet Minerals Company; data for reclamation of the proposed Crandon Mine (Crandon, WI): 1998.
*** WisDOT = Wisconsin Department of Transportation: 2001.
**** WDNR ADM. = Wisconsin DNR Division of Administration: 2002.

Attachment E

Description of Financial Assurance Options

Financial Assurance mechanisms may be placed in two basic categories:

- 1) Funds are actually *set aside* (escrows, trusts, and deposits with the Regulatory Authority)
- 2) *financial guarantees* (bonds, letters of credit, and insurance).

► Deposit with the Regulatory Authority (funds set aside) - A deposit of *cash*, *certificate of deposit* or *U.S. Government Securities* with the RA to guarantee performance of obligations under a reclamation permit.

► Escrow account (funds set aside) - The permittee transfers *cash*, *certificates of deposit* or *U.S. Government Securities* are and put into the custody of a third party, (usually a bank or financial institution). The escrow account is established by the permittee to satisfy the financial assurance requirements.

► Irrevocable trust (funds set aside) - A trust fund is an arrangement in which a separate legal entity, the trust, is created by the permittee to hold property or funds solely for the purpose of guaranteeing performance of obligations under a reclamation permit.

► Bond or surety bond (financial guarantee) - Also known as either:

- a *performance bond* - surety company promises to pay for or perform reclamation or
 - a *forfeiture bond* - surety company promises to make a cash payment for the bond amount
- A bond is an instrument provided by a surety company for which the permittee pays a fee. This is a 3-party agreement that serves as a guarantee that the provider will pay costs associated with fulfilling the permittee's obligations in the event of default

► Insurance (financial guarantee) - An applicant takes out a closure insurance policy from an insurance company. The policy must be issued in an amount adequate to cover the reclamation costs. The RA is the beneficiary of the policy.

► Irrevocable letter of credit (financial guarantee) - This is similar to a bond with a bank or financial institution taking the place of a surety. A irrevocable letter of credit is established solely for the purpose of guaranteeing performance of obligations under a reclamation permit. The bank or financial institution agrees to pay in event of default.

► Net worth test - Method in which a permittee may demonstrate the financial viability of their company. Please refer to NR 135.40 (13), Wis. Adm. Code, for details of the legal review requirements. To do this, an applicant must provide sufficient financial data to demonstrate compliance with minimum financial standards. The company must satisfy specific financial criteria and pass several financial ratios. The application must be supported by the opinion of an independent certified public accountant in order to establish proof of financial responsibility. The data used to demonstrate the financial viability must be taken from the company's audited financial statements from the most recently completed fiscal year. The financial information must be resubmitted every year, using the most current financial statement data.

ATTACHMENT 6

PHOTOS



Entrance Drive from Aspen Ave



Entrance Drive looking east down south project area



Entrance Drive looking north down parcel line



Northeast project area facing south down haul road



East side of project area facing west across reservoir



East side of project area facing southwest across Bed 5



East side of project area facing north down haul road



Near southeast project corner facing west



Near northwest project corner facing southeast



Near northwest project corner facing east



Haul rd on north project boundary facing east to reservoir



Haul rd on north project boundary facing west

ATTACHMENT 7

RESUME'

Résumé' of Qualifications
Brian Camlek, CST,
Designer of Engineering Systems, POWTS Inspector, Environmental Inspector
Water Resource Specialist, Star Environmental, Inc.
705 Third Street, P.O. Box 434
Marathon, WI 54448
Telephone: 715-443-6115
Cell: 715-630-4401 Fax: 715-443-6108
Email: starenvironmental@hotmail.com

Experience: **Star Environmental, Inc., Water Resource Specialist**

Professional Experiences in Wetland Delineations, Wetland Mitigation Banks, Non-Metallic Mine Reclamation Plans, Pond Development Plans, Stormwater Pollution Prevention Plans, Soil and Site Evaluations for Septic Systems and Stormwater, Septic System Designs, Septic System and Well Inspections.

Dade Moeller, Inc., Environmental Scientist

Sampled Soil, Water, Vegetation and Aquatic Organism while conducting extensive QA/QC of data collected during offshore operations in the Gulf of Mexico in response to the BP Deepwater Horizon Oil Spill of 2010.

Water and Environmental Analysis Laboratory, UWSP, Environmental Lab Technician

Analyzed and interpreted water samples for Nitrates, Nitrites, Chloride, Fluoride, Bacteria, Total Hardness, Alkalinity, pH, Turbidity, Biological Oxygen Demand, Chemical Oxygen Demand.

Education: B.S.-Water Resources and Soil Science, May 2010 University of Wisconsin
Steven Point

WDNR Basic and Advanced Wetland Delineation Training Workshops

WDNR Critical Methods in Wetland Delineation Workshop

Completion of UW-La Crosse Grasses, Sedge & Rushes Workshop

Environmental Inspector - Commonground University ASTM E1527-13 Phase 1 ESA

Completion of UW-Madison-WinSLAMM v.10.2 Meeting Urban Stormwater Management Goals

Completion of Trenching & Excavating Competent Person Awareness Training

Qualifications: Designer of Engineering Systems, State of Wisconsin

Certified Soil Tester, State of Wisconsin

Certified POWTS Inspector, State of Wisconsin

Licensed Pump Installer, State of Wisconsin

Recognized USACE and WDNR Wetland Consultant

Environmental Inspector

Résumé' of Qualifications
Gary W. Starzinski
Licensed Professional Soil Scientist
WDNR Professionally Assured Wetland Delineator

President, Star Environmental, Inc.
705 Third Street, P.O. Box 434
Marathon, WI 54448
Telephone: 715-443-6115
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Website: starenvironmentalinc.com

Experience: **Star Environmental, Inc., President**

State of Wisconsin Licensed Professional Soil Scientist, Wisconsin Department of Natural Resources (WDNR) Professionally Assured Wetland Delineator and Recognized United States Army Corps of Engineering with over 40 years of professional experience in the soils and wetland disciplines, completing over 2000 wetland delineations and over 10,000 Soil and Site Evaluations in over 50 Wisconsin Counties. Mapping over 200,000 acres for the United States Department of Agriculture-Natural Resources Conservation Service National Cooperative Soil Survey and participates in soils and wetland training programs, annually.

Star Environmental, Inc. is a consulting firm offering services in wetland delineations, mitigation, restorations, wetland mitigation banking, WDNR project permit assistance, GPS surveying, soil and site evaluations for septic systems and stormwater management practices, soil erosion control and habitat restoration, non-metallic mining permit assistance, phase 1 environmental site assessments, soil characterization and morphological studies, soil survey mapping and comprehensive land resource planning.

Education: B.S. – Soil Science, May 1975 University of Wisconsin Stevens Point

Qualifications: Licensed Professional Soil Scientist, State of Wisconsin Department of Safety and Professional Services

Professionally Assured Wetland Delineator, Wisconsin Department of Natural Resources (WDNR)

ARCPACS Certified Professional Soil Scientist, American Society of Agronomy

Certified Environmental Inspector, Environmental Assessment Association

Certified Soil Tester, State of Wisconsin

Member of the State of Wisconsin Standards Oversight Council for Stormwater 1002 Soil and Site Evaluations

Past President of the Wisconsin Society of Professional Soil Scientists