COVER SYSTEM ENGINEERING CONTROL PLAN (PHASE I)

GENESEE MARINA, INC.
118 PETTEN STREET
ROCHESTER, NEW YORK

NYSDEC SITE #C828130

Prepared for: Genesee Marina, Inc.
118 Petten Street
Rochester, New York 14612

Prepared by: Day Environmental, Inc.
1563 Lyell Avenue
Rochester, New York 14606

Project No.: 5119R-15

Date: April 11, 2018

COVER SYSTEM ENGINEERING CONTROL PLAN (PHASE I)

Introduction

Project Description

The purpose of the project is to install a cover system on a portion (Phase I) of the Genesee Marina, Inc. property (Site) as part of a remedial action engineering control. The Site is approximately 22 acres in total size and is located in the City of Rochester (see Figure 1). The Site is being remediated in accordance with requirements of the New York State Environmental Department of Environmental Conservation Brownfield Cleanup Program (NYSDEC Site #C828130). The cover system engineering control will consist of a permeable demarcation layer and overlying minimum 12-inch layer of compacted permeable cover over top of existing soils (refer to Figure 2 and Figure 3). For Phase I of the Site, permeable cover will be applied to a total of approximately 4.6 acres. The NYSDEC has conditionally approved the construction and materials for Phase I of the cover system engineering control (refer to Appendix A). Although no actual disturbance of existing soils is anticipated during the placement of the permeable cover, the aggregate-based permeable fill to be used as cover is classified as "loose soil"; thus; requiring a NYSDEC construction stormwater permit, including development and implementation of Erosion and Sediment Control Measures, which are addressed in this Plan. A formal stormwater pollution prevention plan (SWPPP) is not required for this project.

Site Description

Genesee Marina, Inc. is an operating marina (dba as Gibbs Marine), with frequent vehicle access for boating purposes. The Site is relatively flat with slopes generally 0 to 2%, and with the exception of a small amount of paved area, currently consists of open ground with minimal weeds/grass/vegetation. Stormwater predominantly infiltrates into the existing permeable fill, with the potential for some sheet flow runoff into an existing drainage swale outside of the Phase I project area, and/or to the east (Genesee River) during heavy storm events.

Adjacent Property

Land use in the vicinity is mixed commercial/residential. The land immediately to the west is a riverway trail and railroad line. Area to the north is utilized for parking and additional boat docking space (not associated with Genesee Marina). Area to the south is a wetland. And area to the east is the Genesee River. There is minimal potential for runoff to enter the site from the elevated trail area to the west of the site, but there are currently no signs of this having occurred.

Soils

The surface soil in the project area is not native. Various fill material was placed at the Site years ago to fill and stabilize the area adjacent to the river for boater access. The existing fill is relatively permeable with little topsoil/silt content, which explains the sparse vegetation and low amount of surface runoff in this area.

Planned Erosion and Sedimentation Control Practices

1. **Silt Fence**: Silt fence will be installed and maintained downgradient of the work area, including temporary stockpiling locations for the cover materials. No silt fence is required upgradient (west) of the Site due to the increase in slope and elevation in this direction. The primary ("fill support") silt fence installation is designed not only for use during construction and stabilization of the cover material, but is also intended to remain in place following completion of the cover placement activities to provide continued protection of the nearby surface water. The primary "fill support" silt fence may be supplemented with unsupported silt fence as needed at locations where the silt fence will not be used for fill support, but based on site inspection is deemed necessary for temporary protection of nearby waterways. See Figure 4 and Figure 5 for details.

2. **Construction Entrance/Exit**: As existing Site fill is not expected to be disturbed, and the cover material to be used is gravel/stone-based, tracking of materials off-site is not anticipated to be a significant concern. The existing paved Site entrance, drive and packed stone surfaces will be used by construction vehicles to minimize the potential for tracking of soils and sediments off site.

3. **Land Grading**: Grading and compaction of the newly placed fill materials will be performed to match the Site's existing contours, which will provide for relatively flat topography and minimize potential for surface or subsurface runoff and channeling.

4. **Dust Control**: Dust control is not expected to be a problem due to the lack of excavation/disturbance of existing Site soils, and the nature of the fill material (gravel/stone-based) to be placed for Site cover. Should excessive dust be generated, it will be controlled by sprinkling water over materials generating the dust.

5. **Site Stabilization:** Final compaction of the cover material and completion of Site construction activities is considered site stabilization for this project, as the cover material, Site use and frequent vehicular traffic prohibits establishment of a vegetative cover.

6. **Construction Waste Management:** It is anticipated that minimal waste materials will be generated during completion of the proposed Site work. No excavation or disturbance of existing soils will occur, and as indicated in item 1 above, the silt fence is designed to remain in place and will not be removed at the completion of construction. As such, no significant off-site transport of soils or construction debris is anticipated. Any wastes generated during construction will be properly managed to prevent migration off-site, and will be disposed of in accordance with applicable local and state regulations.

Construction Schedule

1. File Notice of Intent and await permit coverage to become effective.
2. Install supported silt fence around downgradient perimeter of the work area (see Figure 4).
3. Secure silt fence in place in accordance with design detail (see Figure 5).
4. Complete construction in stages. For each successive active work area:
    - Remove materials/vehicles/boats/etc. from the active work area(s).
    - Install elevation staking in the active work area for use in placement of cover material (see Figure 2).
    - Install demarcation silt film over existing grade surface in the active work area (see Figure 2)
    - Deliver cover material to site and distribute directly in the active work area (it is not anticipated that stockpiles outside of the cover area will be utilized for staging).
    - Spread cover material to depth indicated on staking.
5. Compact cover material to stabilize the Site.
6. File Notice of Termination

Maintenance Plan

The Site Owner is the permit holder and has the ultimate responsibility for ensuring that erosion and sediment control practices are implemented, maintained and inspected in accordance with NYSDEC permit requirements.

Permit requirements include:

1. A Trained Contractor must be on site on a daily basis when construction activities are being performed and will be responsible for implementation of the practices included in the ESC Plan. The active work area of the Site will be inspected at a minimum frequency of once per day by the Trained Contractor (anticipated to be Owner or Owner's representative with NYSDEC-endorsed 4-hour erosion and sediment control (E&SC) training) during any day during which construction activities are being performed.

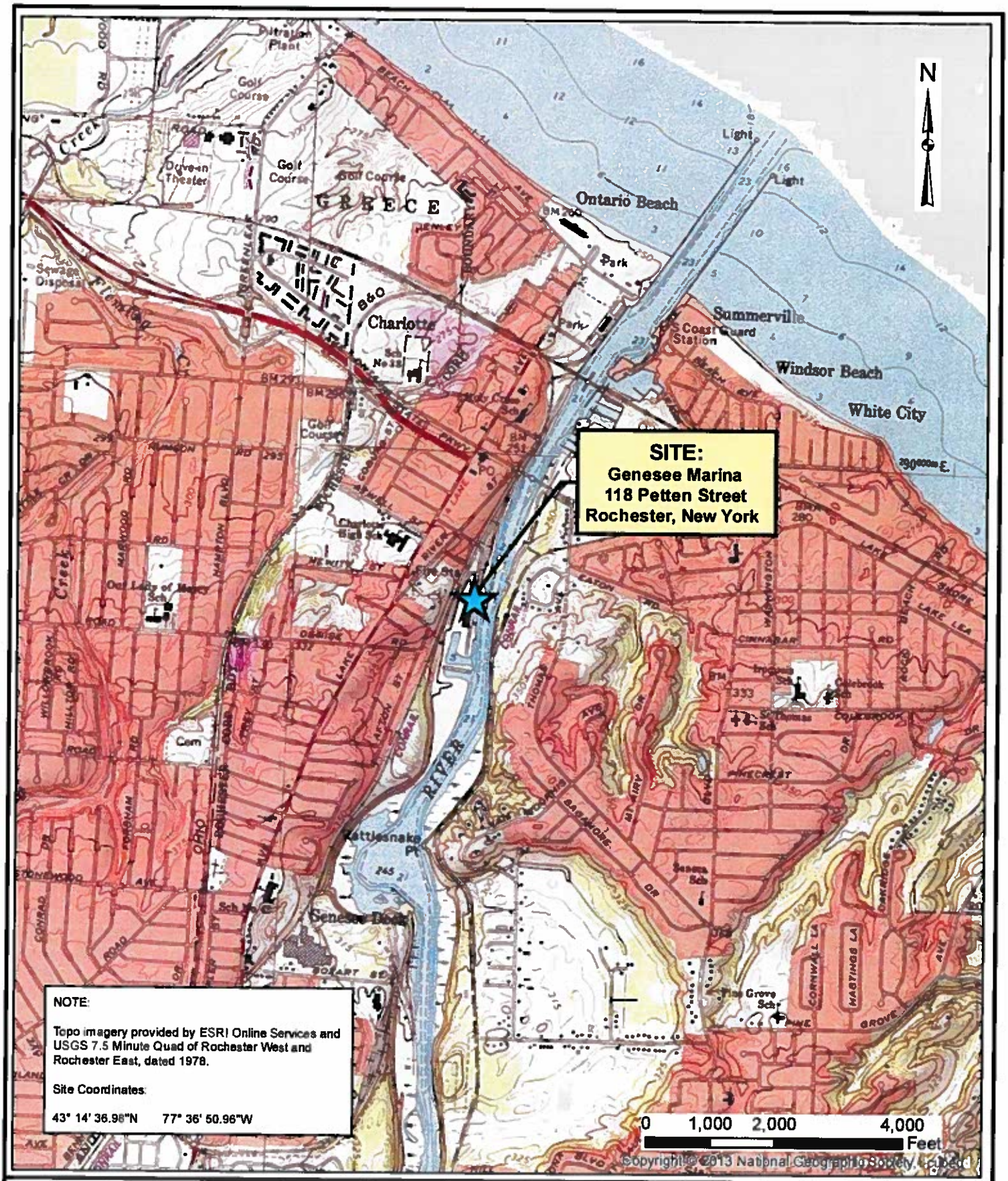
2. A Qualified Inspector (PE or equivalent as per NYSDEC qualification requirements) must perform a Site inspection a minimum of once per week to verify that installed storm water pollution prevention measures are functioning as intended, and that control measures are adhered to.

3. Inspection logs will be maintained by both the Trained Contractor and the Qualified Inspector that will document site review activities in accordance with General Stormwater Permit requirements, including (but not limited to):

    - the date and time of each inspection
    - the inspector's name
    - any findings and recommendations

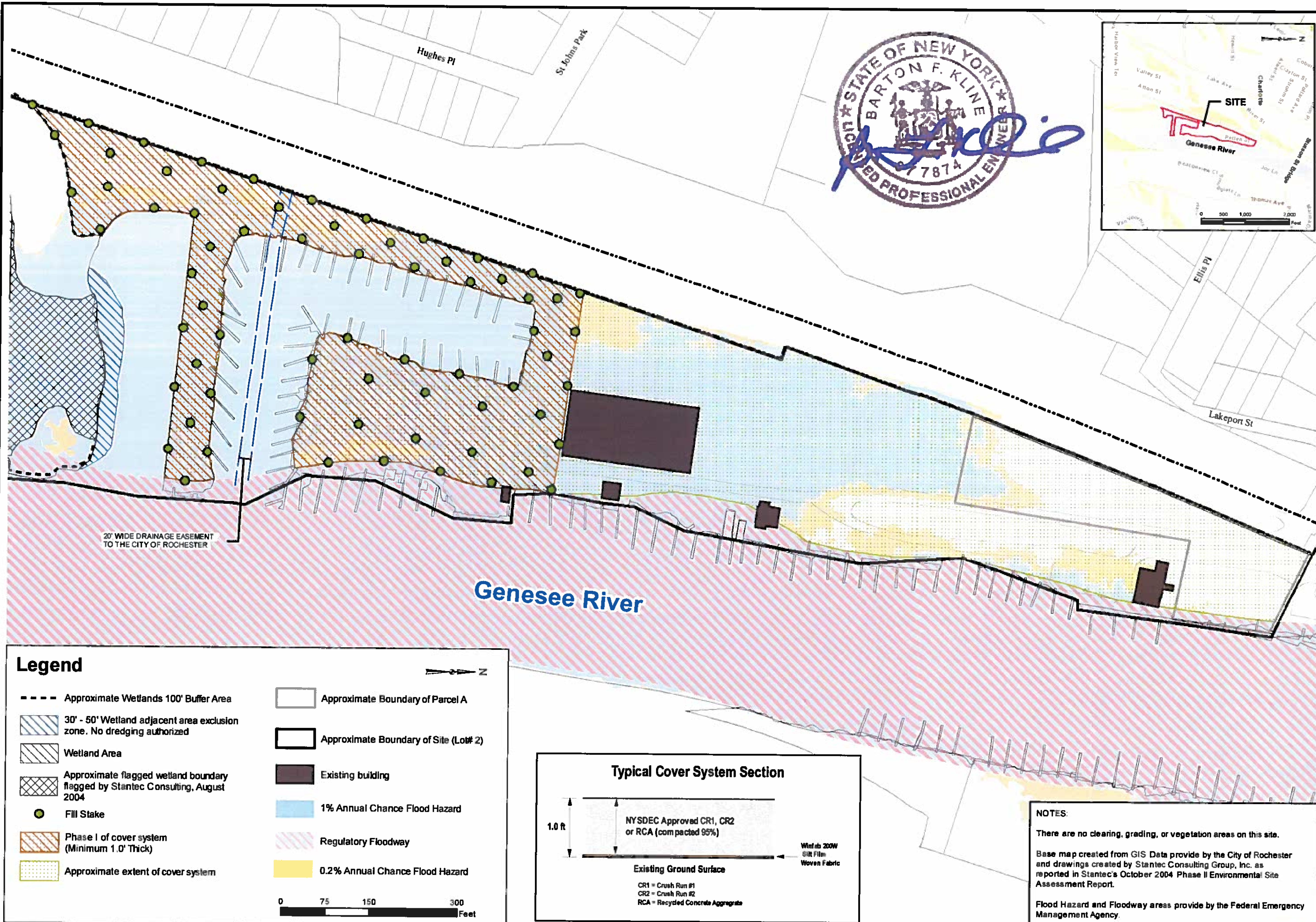
4. Any deficiencies and/or need for repairs noted during the daily or weekly Site inspections must be initiated within 24 hours of observance of the deficiency. The corrective measures will be documented in the applicable inspection log.

FIGURES



Date: 05-11-2016 Drawn By: ANM Scale: AS NOTED	day DAY ENVIRONMENTAL, INC. Environmental Consultants Rochester, New York 14606 New York, New York 10170	Project Title: GENESEE MARINA 118 PETTEN STREET ROCHESTER, NEW YORK (NYSDEC SITE NO. C828130) BROWNFIELD CLEANUP PROGRAM Drawing Title: Project Locus Map	Project No: 5119R-15 FIGURE 1

Last Date Saved: 10 Apr 2016 Document Path: E:\GIS Mapping\Genesee_Marina\5119R-15\GenMar\CoverSystem\5119R-ROMP-24 - Locus.mxd


Hughes Pl
St Johns Park
Ellis Pl
Lakeport St
20' WIDE DRAINAGE EASEMENT
TO THE CITY OF ROCHESTER
Genesee River
STATE OF NEW YORK
BARTON F. KLINE
077874
LICENSED PROFESSIONAL ENGINEER
SITE
Genesee River
Legend
Approximate Wetlands 100' Buffer Area
30' - 50' Wetland adjacent area exclusion zone. No dredging authorized
Wetland Area
Approximate flagged wetland boundary flagged by Stantec Consulting, August 2004
Fill Stake
Phase I of cover system (Minimum 1.0' Thick)
Approximate extent of cover system
Approximate Boundary of Parcel A
Approximate Boundary of Site (Lot# 2)
Existing building
1% Annual Chance Flood Hazard
Regulatory Floodway
0.2% Annual Chance Flood Hazard
0
75
150
300
Feet
N
Typical Cover System Section
1.0 ft
NYSDEC Approved CR1, CR2 or RCA (compacted 95%)
Winfab 200W Silt Film Woven Fabric
Existing Ground Surface
CR1 = Crush Run #1
CR2 = Crush Run #2
RCA = Recycled Concrete Aggregate

NOTES:

There are no clearing, grading, or vegetation areas on this site.

Base map created from GIS Data provide by the City of Rochester and drawings created by Stantec Consulting Group, Inc. as reported in Stantec's October 2004 Phase II Environmental Site Assessment Report.

Flood Hazard and Floodway areas provide by the Federal Emergency Management Agency.

DESIGNED BY: JAD	DATE: 04-2018
DRAWN BY: CPS	DATE DRAWN: 04-2018
SCALE: AS NOTED	DATE ISSUED: 04-09-2018

day
DAY ENVIRONMENTAL, INC.
Environmental Consultants
Rochester, New York 14606
New York, New York 10170

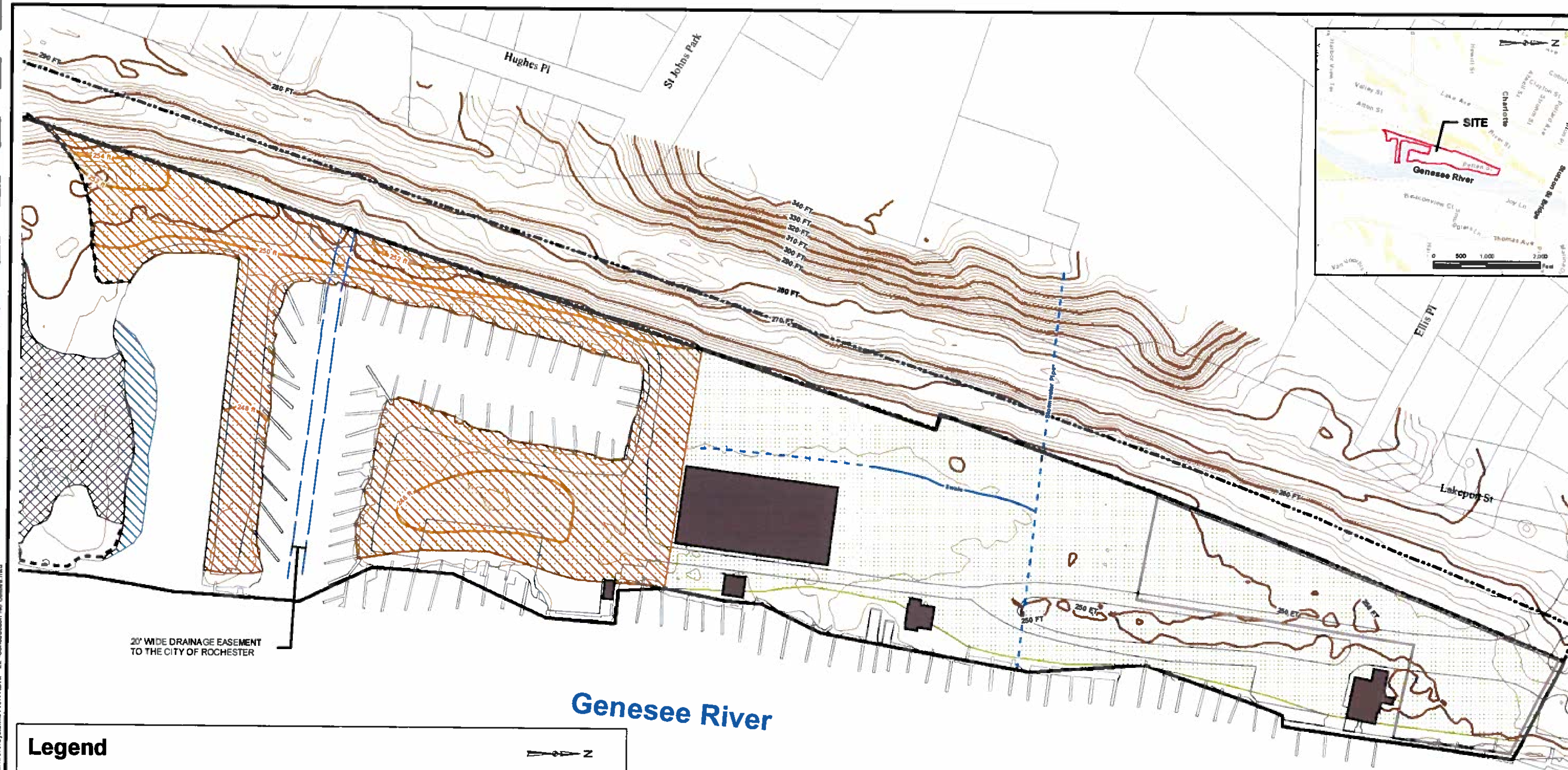
Project Title: GENESEE MARINA
118 PETTEN STREET
ROCHESTER, NEW YORK

REMEDIAL DESIGN INVESTIGATION

Drawing Title: Cover System (Phase I) Construction Drawing

Project No: 5119R-15

FIGURE 2



Legend

- Approximate Wetlands 100' Buffer Area
- 30' - 50' Wetland adjacent area exclusion zone. No dredging authorized
- Wetland Area
- Approximate flagged wetland boundary flagged by Stantec Consulting, August 2004
- Phase I of cover system (Minimum 1' thick)
- Approximate extent of cover system
- Proposed Contour
- 2ft Contours
- 10ft Contours
- Swale
- Stormwater Pipe
- Approximate Boundary of Parcel A
- Approximate Boundary of Site (Lot# 2)
- Existing building

0 75 150 300 Feet

N

NOTES:

There are no clearing, grading, or vegetation areas on this site.

Water utility data based on know site features at the site. The location of water utilities should be considered approximate.

Base map created from GIS Data provide by the City of Rochester and drawings created by Stantec Consulting Group, Inc. as reported in Stantec's October 2004 Phase II Environmental Site Assessment Report.

Flood Hazard and Floodway areas provide by the Federal Emergency Management Agency.

STATE OF NEW YORK · BARTON F. KLINE · 77874 · LICENSED PROFESSIONAL ENGINEER

DESIGNED BY	DATE
JAD	04-2018
DRAWN BY	DATE DRAWN
CPS	04-2018
SCALE	DATE ISSUED
AS NOTED	04-10-2018

DAY ENVIRONMENTAL, INC.
Environmental Consultants
Rochester, New York 14606
New York, New York 10170

Project Title
GENESEE MARINA
118 PETTEN STREET
ROCHESTER, NEW YORK
REMEDIAL DESIGN INVESTIGATION

Drawing Title
Cover System (Phase I) Construction Drawing

Project No.
5119R-15

FIGURE 3

Hughes Pl
St Johns Park
River St
River St
Ellis Pl
Lakeport St
Genesee River
Legend
Approximate Wetlands 100' Buffer Area
30' - 50' Wetland adjacent area exclusion zone. No dredging authorized
Wetland Area
Approximate flagged wetland boundary flagged by Stantec Consulting, August 2004
Construction work area
Silt fence
Docks
Approximate Boundary of Parcel A
Approximate Boundary of Site (Lot# 2)
Existing building
0 75 150 300 Feet
N
STATE OF NEW YORK
BARTON F. KLINE
077874
LICENSED PROFESSIONAL ENGINEER

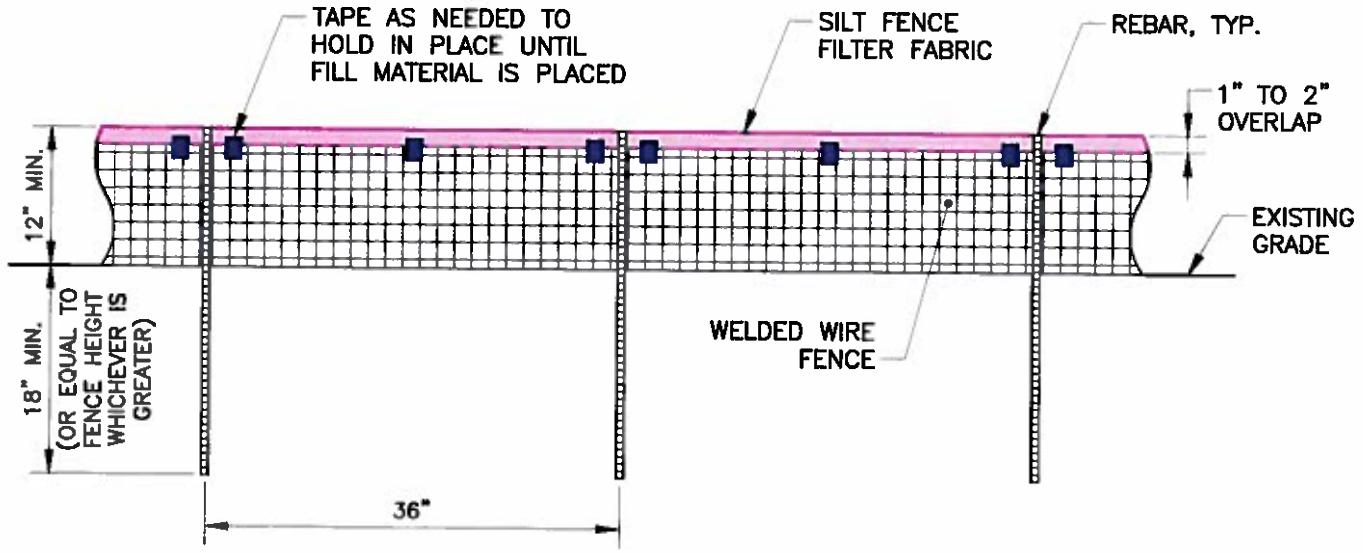
NOTES:

Base map created from GIS Data provide by the City of Rochester and drawings created by Stantec Consulting Group, Inc. as reported in Stantec's October 2004 Phase II Environmental Site Assessment Report.

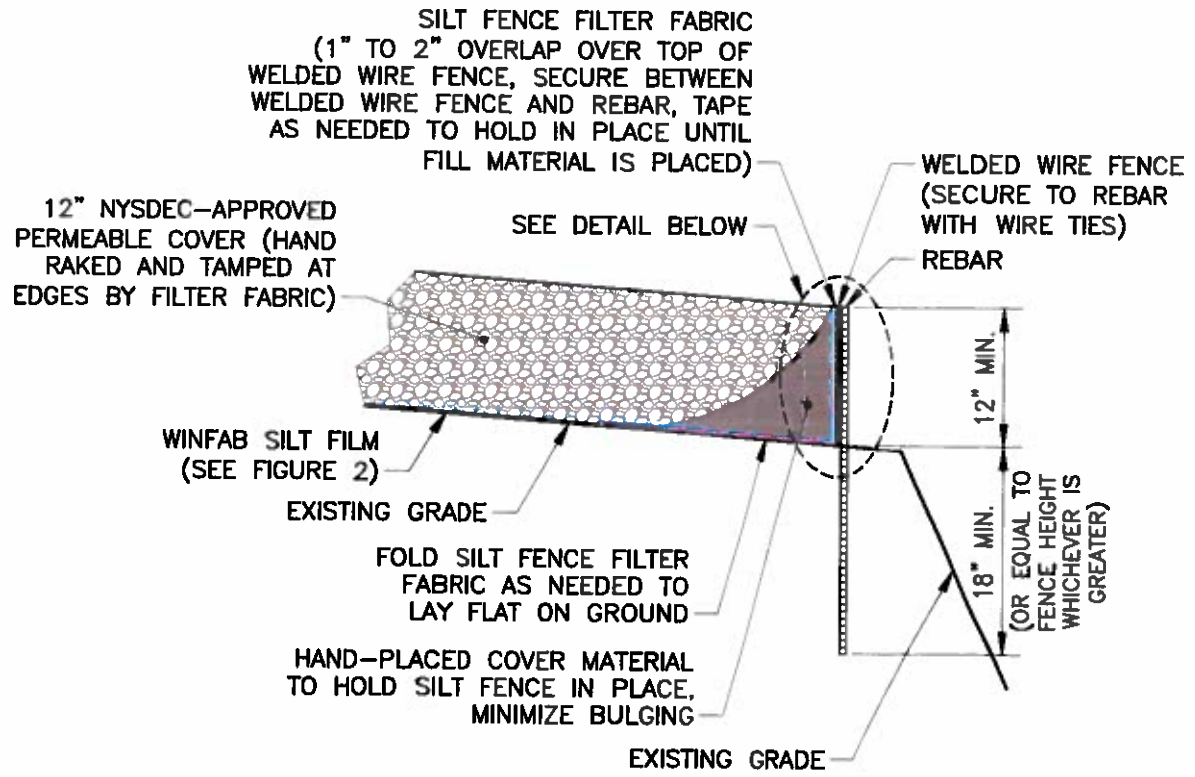
Project Title	GENESEE MARINA 118 PETTEN STREET ROCHESTER, NEW YORK REMEDIAL DESIGN INVESTIGATION
Drawing Title	Erosion and Sediment Control Site Plan (Phase I)
Project No.	5119R-15
	FIGURE 4

day
DAY ENVIRONMENTAL, INC.
Environmental Consultants
Rochester, New York 14606
New York, New York 10170

DESIGNED BY	DATE
JAD	04-2018
DRAWN BY	DATE DRAWN
CPS	04-2018
SCALE	DATE ISSUED
AS NOTED	04-10-2018



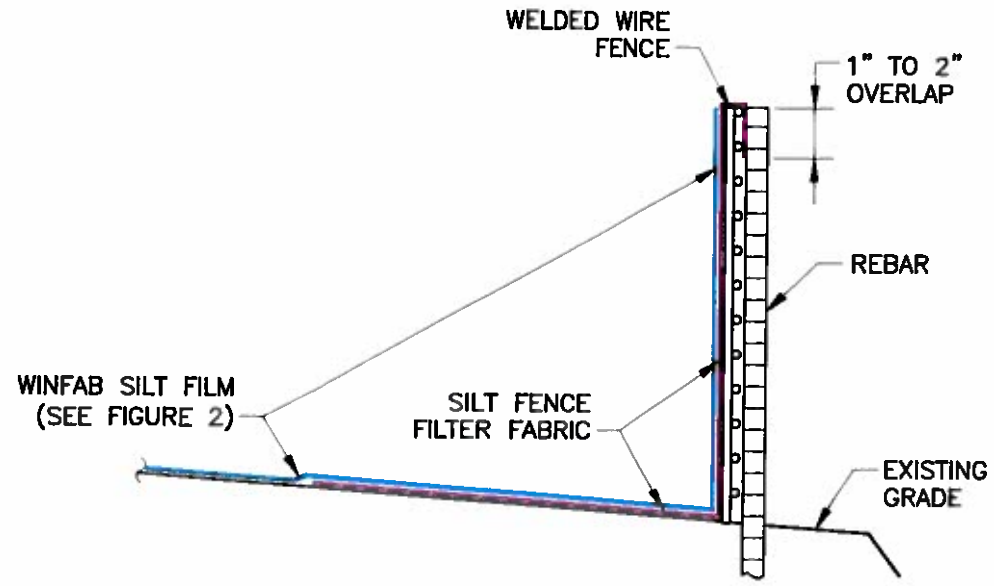
FRONT VIEW



SECTIONAL VIEW

CONSTRUCTION NOTES

Rebar:	#5 Black Epoxy Coated Rebar (Or Engineer Approved Equal)
Fence:	14 GA. 1"x2", 12" Min. High, Black Vinyl Coated (wirefencenline.com or Equal)
Filter Fabric:	Black DOT-Grade, 36"-42" High, Min. 80% UV Resistance, Min. 0.1 Sec^{-1} Permittivity



DETAIL VIEW

1 / Fig 5 SILT FENCE DETAIL
Not To Scale

STATE OF NEW YORK * BARTON F. KLINE * 077874 * LICENSED PROFESSIONAL ENGINEER

DESIGNED BY: BFK | DATE: 4-2018
DRAWN BY: RJM | DATE DRAWN: 4-4-2018
SCALE: As Noted | DATE ISSUED: 4-9-2018

day
DAY ENVIRONMENTAL, INC.
ENVIRONMENTAL CONSULTANTS
ROCHESTER, NEW YORK 14606
NEW YORK, NEW YORK 10170

PROJECT TITLE
GENESEE MARINA
118 PETTEN STREET
ROCHESTER, NEW YORK
REMEDIAL DESIGN INVESTIGATION

DRAWING TITLE
Silt Fence Detail

PROJECT NO
5119R-15

FIGURE 5

APPENDIX A

NYSDEC Approvals Documentation

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 8
6274 East Avon-Lima Road, Avon, NY 14414-9516
P: (585) 226-5353 I F: (585) 226-8139
www.dec.ny.gov

March 8, 2018

Steve Gibbs
Genesee Marina, Inc.
118 Petten St.
Rochester NY 14612

Re: Cover Installation Request
Genesee Marina Inc.
City of Rochester, Monroe (C)
Site No.: C828130

Mr. Gibbs,

In response to the recent request submitted via e-mail from Mr. Jeff Danzinger on February 22, 2018 seeking the New York State Department of Environmental Conservation (Department) approval to start fieldwork construction of the Genesee Marina, Inc. site (Site) cover system. Based on the information presented in the February 22, 2018 e-mail, the Department conditionally approves the request, with the following modifications and stipulations:

- This approval only satisfies New York State Brownfield Clean-up Program requirements, and does not relinquish requirements for Genesee Marina, Inc. or Mr. Gibbs to obtain all other local, state or federal law or permits required as per the Brownfield Cleanup Agreement and 6 NYCRR Part 375-1.12.

- Documentation of other local, State, and Federal permits issued must be submitted to the Department prior to the start of any field work activities associated with the cover system installation as well as included in the Final Engineering Report.

- All cover system installation work must be done in accordance with the Site's Decision Document, dated March 2012.

- All cover system installation work must be performed by individuals with the 40-hr. OSHA HAZWOPER certification and hold a current 8-hr. refresher certification. Certifications will be made available to the Department and NYSDOH upon request.

- The Department understands that a demarcation layer will be placed below the cover system that meets, at a minimum, the specifications as provided in the February 22, 2018 e-mail.

- The installed cover system at the Site will consist of one foot thick of soil or non-soil material (e.g., crusher run #2) approved by the Department after compaction and settling.

- The Department understands that the cover material will be comprised of crusher run from the suppliers in which the sieve analysis' were run and provided in Jeff Danzinger's e-mail on February 22, 2018. The cover system can also consist of recycled concrete from a NYSDEC certified recycling facility, provided it meets the specifications set in DER-10 and is approved before coming on-site. If cover system material must be obtained from other sources, then that material requires Department approval prior to importation to the Site. Based on the information provided in the February 22, 2018 e-mail the crusher run material meets the Department's specifications and is here by approved as cover material.

- If any ground intrusive activity, including but not limited to re-grading, is performed at the Site to prepare for or during the cover installation, the Site's Community Air Monitoring Plan (CAMP) must be implemented. All CAMP monitoring data will be provided in the Final Engineering Report.

- The Department understands that the Site's Health and Safety Plan will be implemented during the cover system installation at the Site.

- The Department understands that all fieldwork activities associated with the cover system installation will be documented (e.g., field reports, photographs, bills of lading) in the site's Final Engineering Report and will include a P.E. stamped and signed as-built drawing in accordance with DER-10 Section 5.8.

- The Department understands that any groundwater monitoring wells located within the cover system installation area will be modified to meet the new grade of the Site as per standard engineering practices and standards and will be re-surveyed.

- The Department understands that the site cover system will be inspected annually and will be maintained to ensure 1 foot of material is in place at all times. The cover system inspection report will be submitted to the Department in the subsequent Monthly Progress Report until the approval of the Site Management Plan which will detail long-term monitoring, inspections, and reporting requirements.

- If the type of cover system changes at the Site from what is currently being installed (i.e., a soil cover is replaced by asphalt), this will constitute a modification of the cover element of the remedy and the upper surface of the remaining contamination. A figure showing the modified surface will be included in the subsequent Monthly Progress Report.

- The Department understands that 7 days advance notice of fieldwork activities will be provided to the Department so that appropriate oversight can be provided as per the Brownfield Cleanup Agreement.

Within fifteen (15) days of the date of this letter and prior to any fieldwork activities associated with the cover system installation, the Applicant shall elect one of the three (3) options presented below in writing (electronic notification is acceptable) to either:

Option A: Accept the Department's modified work plan;
Option B: Invoke dispute resolution as set forth in 6 NYCRR Part 375-1.5(b)(2);
Option C: Terminate the Brownfield Cleanup Agreement in accordance with 6 NYCRR Part 375-3.5.

If the Remedial Party chooses to accept Option A then this letter along with the February 22, 2018 e-mail must be placed in the document repository within 1 week of accepting Option A and prior to any fieldwork activities associated with this letter and the cover system installation. Notification to the Department that the documents have been placed in the document repository must be provided (electronic notification is acceptable).

The State seeks to resolve any outstanding differences in a mutually agreeable manner which addresses the requirements of the Brownfield Cleanup Agreement and associated work plans. If you have any questions or concerns regarding this letter, the BCP requirements, or need further assistance with the Site, please feel free to reach out to me at adam.morgan@dec.ny.gov or by phone at 585-226-5356.

Thank you for your time,

Adam Morgan, EIT
Environmental Engineer, Division of Environmental Remediation

Ec:
Alan Knauf (Knauf Shaw)
Donald Suhr, Jr. (Genesee Marina, Inc.)
Gerard G. Antetomaso, Esq. (GGA Law)
Jeff Danzinger (Day Environmental)
Joe Biondolillo (City of Rochester)
Jane Forbes (City of Rochester)
Dusty Tinsley (NYSDEC)
Arunesh Ghosh (NYSDOH)
Justin Deming (NYSDOH)
Bernette Schilling (NYSDEC)

Frank Sowers (NYSDEC)
Charlotte Theobald (NYSDEC)

Jeff Danzinger

From: Jeff Danzinger
Sent: Thursday, February 22, 2018 2:09 PM
To: Morgan, Adam T (DEC); 'Charlotte.theobald@dec.ny.gov'
Cc: Steve Gibbs (Steve@GibbsMarine.com); Steve Gibbs; Heather McLennan
Subject: RE: Cover Installation
Attachments: GE BCP 2018 start.pdf; Winfab200W (JCSmith).pdf; NYSDEC BCP imported material.pdf; 2018_02_21_15_09_07 (CR2 Gradation Data).pdf; 2018_02_22_09_14_42 (CR-1 Gradation Data).pdf

Adam and Charlotte,

Would you be available for a teleconference with Steve Gibbs and DAY between 10:00 AM and 4:00 PM this Friday (2/23)?

Steve just mentioned that the Coast Guard believes there will be flooding again this year.

Attached is a new figure from Steve for two areas Steve is identifying he would like to install earthen cover system as soon as possible. Steve has mentioned he would first clear and install the earthen cover system in the green-shaded area, then clear and install the earthen cover system in the pink-shaded area.

Attached are latest gradation sheets for:

- CR2 from Dolomite Brockport, Dolomite Ogden, and Dolomite Leroy where final gradation results show less than 10% passes #80 sieve.
- CR1 from Dolomite Brockport and Dolomite Ogden where final gradation results show less than 10% passes #80 sieve.

Also attached is the previously provided and approved material sheet concerning the Winfab 200W demarcation layer material for reference. We are looking for the CR1 and CR2 from the above referenced sources to be approved for import to, and use at, Genesee Marina.

In addition, Steve is looking at some options for recycled materials (e.g., crushed concrete) from a NYSDEC-permitted facility. He may have more information on that later this week or next week sometime.

Lastly, attached is a PDF of a NYSDEC PowerPoint concerning Backfill and Cover material that we can reference if necessary.

Jeff

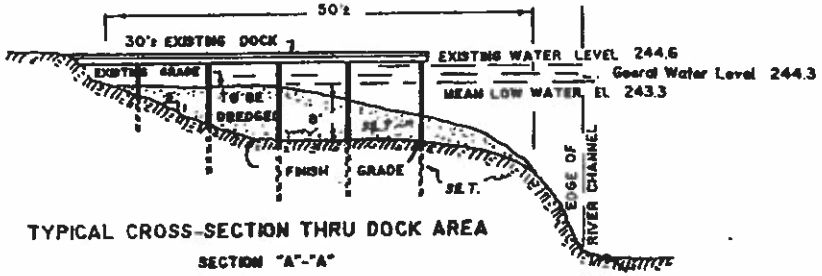
Jeffrey A. Danzinger
Day Environmental, Inc.
1563 Lyell Avenue
Rochester, New York 14606
Phone: (585) 454-0210 ext:114
Fax: (585) 454-0825

From: Morgan, Adam T (DEC) [mailto:Adam.Morgan@dec.ny.gov]
Sent: Monday, May 08, 2017 9:33 AM
To: Steve Gibbs; Steve (Steve@GibbsMarine.com)
Cc: Theobald, Charlotte B (DEC); Jeff Danzinger; Heather McLennan
Subject: Cover Installation

This e-mail copies you on correspondence from the New York State Department of Environmental Conservation, Division of Environmental Remediation. Electronic attachments may be attached. A hard copy version will follow in the mail. Please contact Adam Morgan at (585) 226-5356 if you experience problems with this transmission.

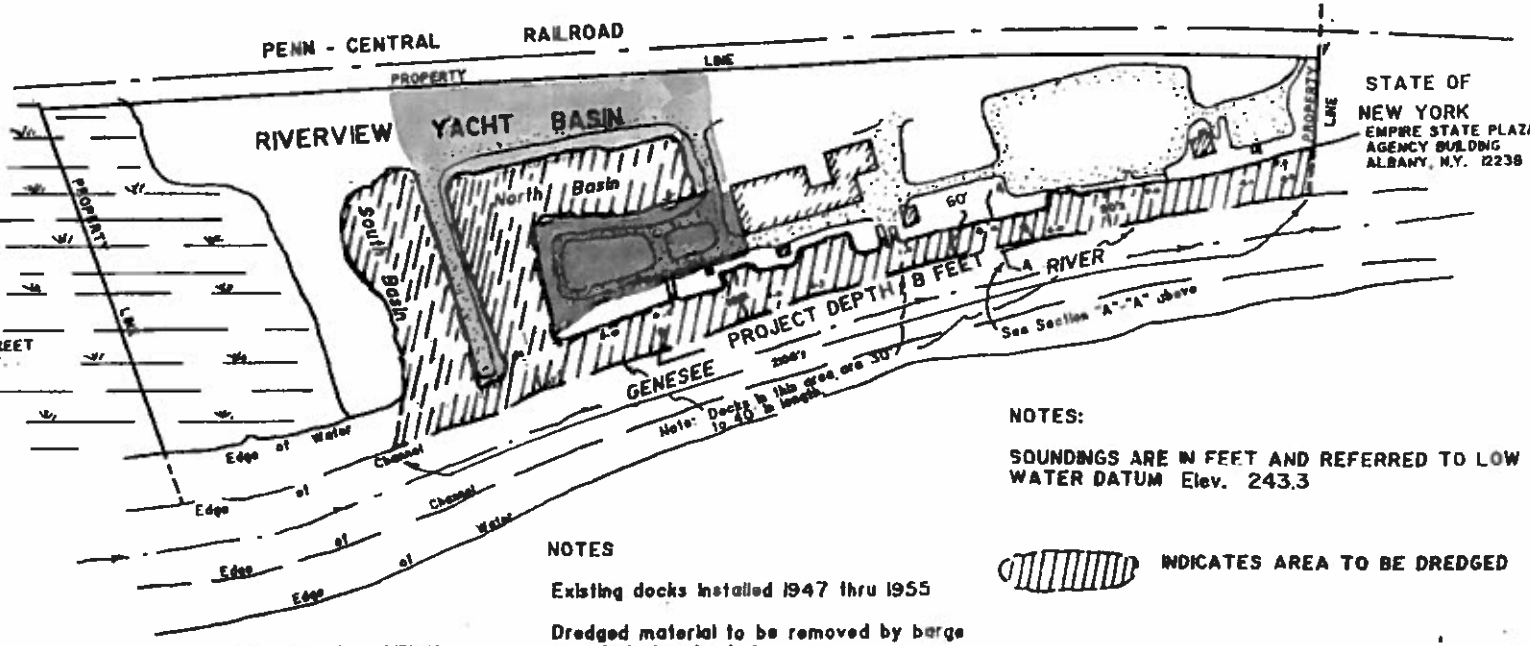
Adam Morgan
Environmental Engineer, Division of Environmental Remediation

New York State Department of Environmental Conservation
6274 East Avon-Lima Rd. Avon, NY 14414
P: (585) 226-5356 | F: (585) 226-8139 | adam.morgan@dec.ny.gov



TYPICAL CROSS-SECTION THRU DOCK AREA

SECTION "A"-"A"



NOTES:

SOUNDINGS ARE IN FEET AND REFERRED TO LOW WATER DATUM Elev. 243.3

INDICATES AREA TO BE DREDGED

NOTES

Existing docks installed 1947 thru 1955

Dredged material to be removed by barge mounted clam bucket
Dredged material to be disposed of at the Lake Ontario Dumping Ground. See sketch to left.

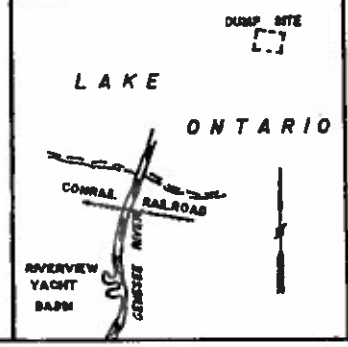
45,000 Cu. Yd. of material to be removed.

OWNER:

Gibbs Marie Group, Inc.
105 East Manitou Road
Rochester, New York
14612

Tel. · 585-749-6267

DUMP SITE LOCATION



DREDGING PLAN FOR

RIVERVIEW YACHT BASIN

CITY OF ROCHESTER
MONROE COUNTY NEW YORK STATE
DATE: NOV.18, 2005 SCALE: 1" = 400'±

REVISIONS

JAMES K. GLOGOWSKI
Professional Land Surveyor
ROCHESTER, NEW YORK
73-05-R

CRUSHER RUN TEST RESULTS

(DOT SIEVES)

DATE: 11/9/2017
LOCATION: Brockport
AGGREGATE: CRUSHER RUN #2
PILE: STOCKPILE
FACE: WEST
INSPECTOR: J.RIVALDO

COARSE

	WT.	% RET.	%PASS
2"			100.0
11/2"	1.4	2.8	97.2
1"	8.4	17.4	79.8
1/2"	12.1	25.2	54.7
1/4"	7.9	16.4	38.3
PAN	18.5	38.3	
TOTAL	48.3		

FINE

WET WT.=	2118.8
DRY WT.=	2118.8
% MOISTURE=	

WT.BEFORE WASH=	2118.8
WT. AFTER WASH=	2118.8
WT. PASSING #200=	

	WT.	TOTAL WT.	% RET.	% PASS
1/4"				100
1/8"	754.8	754.8	35.6	64.4
#20	795.0	795.0	37.5	26.9
#40	171.8	171.8	8.1	18.7
#80	120.7	120.7	5.7	13.0
#200	100.0	100.0	4.7	8.3
PAN	176.5	176.5	8.3	
TOTAL	2118.8	2118.8		

FINAL GRADATION

SIEVE	%RET.	%PASS	SPEC.	
2"		100.0	100.0	PASS
11/2"	2.8	97.2		
1"	17.4	79.8		
1/2"	25.2	54.7		
1/4"	16.4	38.3	30 - 65	PASS
1/8"	13.6	24.7		
#20	14.4	10.3		
#40	3.1	7.2	5 - 40	PASS
#80	2.2	5.0		
#200	1.8	3.2	0 - 10	PASS
PAN	3.2			
TOTAL				

CRUSHER RUN TEST RESULTS

(DOT SIEVES)

DATE: 7/25/2017
LOCATION: Ogden
AGGREGATE: CRUSHER RUN #2
PILE: STOCKPILE
FACE: WEST
INSPECTOR: J.RIVALDO

COARSE

	WT.	% RET.	%PASS
2"			100.0
11/2"	1.8	3.4	96.6
1"	9.1	16.8	79.9
1/2"	17.9	32.9	46.9
1/4"	8.6	15.8	31.1
PAN	16.9	31.1	
TOTAL	54.4		

FINE

WET WT.=	2165.5
DRY WT.=	2165.5
% MOISTURE=	

WT.BEFORE WASH=	2165.5
WT. AFTER WASH=	2165.5
WT. PASSING #200=	

	WT.	TOTAL WT.	% RET.	% PASS
1/4"				100
1/8"	614.0	614.0	28.4	71.6
#20	755.7	755.7	34.9	36.7
#40	192.0	192.0	8.9	27.9
#80	150.5	150.5	6.9	20.9
#200	210.6	210.6	9.7	11.2
PAN	242.7	242.7	11.2	
TOTAL	2165.5	2165.5		

FINAL GRADATION

SIEVE	%RET.	%PASS	SPEC.	
2"		100.0	100.0	PASS
11/2"	3.4	96.6		
1"	16.8	79.9		
1/2"	32.9	46.9		
1/4"	15.8	31.1	30 - 65	PASS
1/8"	8.8	22.3		
#20	10.9	11.4		
#40	2.8	8.7	5 - 40	PASS
#80	2.2	6.5		
#200	3.0	3.5	0 - 10	PASS
PAN	3.5			
TOTAL				

CRUSHER RUN TEST RESULTS

(DOT SIEVES)

DATE: 6/6/2017
LOCATION: Leroy
AGGREGATE: CRUSHER RUN #2
PILE: STOCKPILE
FACE: WEST
INSPECTOR: J.RIVALDO

COARSE

	WT.	% RET.	%PASS
2"			100.0
11/2"	0.9	1.5	98.5
1"	9.1	15.6	82.9
1/2"	15.8	27.1	55.8
1/4"	12.7	21.8	34.0
PAN	19.8	34.0	
TOTAL	58.3		

FINE

WET WT.=	2083.3
DRY WT.=	2083.3
% MOISTURE=	

WT.BEFORE WASH=	2083.3
WT. AFTER WASH=	2083.3
WT. PASSING #200=	

	WT.	TOTAL WT.	% RET.	% PASS
1/4"				100
1/8"	663.4	663.4	31.8	68.2
#20	814.4	814.4	39.1	29.1
#40	215.8	215.8	10.4	18.7
#80	154.9	154.9	7.4	11.3
#200	98.2	98.2	4.7	6.6
PAN	136.6	136.6	6.6	
TOTAL	2083.3	2083.3		

FINAL GRADATION

SIEVE	%RET.	%PASS	SPEC.	
2"		100.0	100.0	PASS
11/2"	1.5	98.5		
1"	15.6	82.9		
1/2"	27.1	55.8		
1/4"	21.8	34.0	30 - 65	PASS
1/8"	10.8	23.2		
#20	13.3	9.9		
#40	3.5	6.4	5 - 40	PASS
#80	2.5	3.8		
#200	1.6	2.2	0 - 10	PASS
PAN	2.2			
TOTAL				

CRUSHER RUN TEST RESULTS

(DOT SIEVES)

DATE: 9/23/2000
LOCATION: Brockport
AGGREGATE: CR1
PILE: Stockpile
FACE: West
INSPECTOR: J.Rivaldo

COARSE

	WT.	% RET.	%PASS
2"			100.0
11/2"			100.0
1"	0.7	1.2	98.8
1/2"	17.4	30.5	68.3
1/4"	10.9	19.0	49.3
PAN	28.2	49.3	
TOTAL	57.2		

FINE

WET WT.=	2231.1
DRY WT.=	2231.1
% MOISTURE=	

WT.BEFORE WASH=	2231.1
WT. AFTER WASH=	2231.1
WT. PASSING #200=	

	WT.	TOTAL WT.	% RET.	% PASS
1/4"	1.1			100
1/8"	701.5	701.5	31.5	68.5
#20	898.4	898.4	40.3	28.3
#40	224.8	224.8	10.1	18.2
#80	144.6	144.6	6.5	11.7
#200	96.2	96.2	4.3	7.4
PAN	164.4	164.4	7.4	
TOTAL	2229.9	2229.9		

FINAL GRADATION

SIEVE	%RET.	%PASS	SPEC.
2"		100.0	100.0
11/2"		100.0	
1"	1.2	98.8	
1/2"	30.5	68.3	
1/4"	19.0	49.3	30 - 65
1/8"	15.5	33.8	
#20	19.9	13.9	
#40	5.0	9.0	5 - 40
#80	3.2	5.8	
#200	2.1	3.6	0 - 10
PAN	3.6		
TOTAL			

CRUSHER RUN TEST RESULTS

(DOT SIEVES)

DATE: 8/8/2017
LOCATION: Ogden
AGGREGATE: CRUSHER RUN #1
PILE: STOCKPILE
FACE: WEST
INSPECTOR: J.RIVALDO

COARSE

	WT.	% RET.	%PASS
2"			100.0
11/2"			100.0
1"	0.3	0.7	99.3
1/2"	16.5	38.7	60.6
1/4"	11.2	26.2	34.4
PAN	14.6	34.4	
TOTAL	42.6		

FINE

WET WT.=	1904.3
DRY WT.=	1904.3
% MOISTURE=	

WT.BEFORE WASH=	1904.3
WT. AFTER WASH=	1904.3
WT. PASSING #200=	

	WT.	TOTAL WT.	% RET.	% PASS
1/4"				100
1/8"	687.1	687.1	36.1	63.9
#20	624.7	624.7	32.8	31.1
#40	136.8	136.8	7.2	23.9
#80	102.1	102.1	5.4	18.6
#200	151.8	151.8	8.0	10.6
PAN	201.8	201.8	10.6	
TOTAL	1904.3	1904.3		

FINAL GRADATION

SIEVE	%RET.	%PASS	SPEC.
2"		100.0	100.0
11/2"		100.0	
1"	0.7	99.3	
1/2"	38.7	60.6	
1/4"	26.2	34.4	30 - 65
1/8"	12.4	22.0	
#20	11.3	10.7	
#40	2.5	8.2	5 - 40
#80	1.8	6.4	
#200	2.7	3.6	0 - 10
PAN	3.6		
TOTAL			

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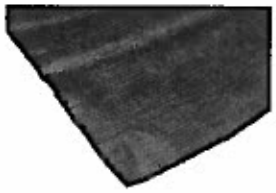
Winfab 200W Slit Film Woven Fabric Roll



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WINfab 200W is manufactured using high tenacity polypropylene yarns that are woven to form a dimensionally stable network, which allows the yarns to maintain their relative position. WINfab 200W resists ultraviolet deterioration, rotting and biological degradation and is inert to commonly encountered soil chemicals.

- Durable polypropylene yarns woven for dimensional stability.
- Fabric strength, suitable for encapsulation and fabrication in temporary or permanent structures.
- Low elongation, to restrain construction damage like tearing or puncturing.

Available Sizes: 12.5 ft. x 432 ft. / 17.5 ft. x 309 ft.

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NEW YORK
STATE OF
OPPORTUNITY

Department of
Environmental
Conservation

Backfill and Soil Cover Material

April 21, 2017

Imported Material Must be Pre-Approved by DEC

Must be soil or other Part 360 unregulated material

Request to Import Soil / Fill Form

- Based on DER-10 requirements
- Available from DER Project Manager
  - (Technical Information page)

Beneficial Use Determinations (BUDs)

DER is authorized to grant BUDs for on-site elements of remedial projects

- Backfill & soil covers
- Must meet chemical & functional criteria of RAWP
- Analysis per DER-10 + additional as appropriate
- All treatment & processing must be complete before receipt
- Must be reported in FER and Annual Reports
  - Annual reports due February 28 each year

Generic BUD (Part 360)

"Recognizable uncontaminated concrete, asphalt, brick, glass, soil and rock…placed in service as a substitute for conventional aggregate"

Not all generic BUD material is acceptable for Brownfield sites

- Still requires testing for chemical compliance
- Recycled brick and concrete with <10% passing #80 sieve acceptable without testing, but it cannot contain asphalt

Thank You

- George Heitzman
- Director, Remedial Bureau C
- 625 Broadway
  Albany, NY 12233-7014
- george.heitzman@dec.ny.gov
- 518-402-9662

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NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Jeff Danzinger

From: Morgan, Adam T (DEC) <Adam.Morgan@dec.ny.gov>
Sent: Friday, March 16, 2018 9:30 AM
To: Jeff Danzinger
Cc: Theobald, Charlotte B (DEC); Steve Gibbs (Steve@GibbsMarine.com); Steve Gibbs; Heather McLennan; Sowers, Frank (DEC)
Subject: RE: Genesee Marina, BCP Site #C818130
Attachments: RT1576SL-002-03-18.pdf; RT1576SL-001-03-18.pdf

Jeff,

The Department has reviewed the attached files for sieve analysis done on March 9, 2018 by Atlantic Testing Laboratories, for two recycled concrete samples at Villager Construction Company, Inc. The Department hereby approves this material for use as cover material at the Genesee Marina BCP site. Please include both sieve analysis in the FER. The Department understands that 7 days advance notice of fieldwork activities will be provided to the Department so that appropriate oversight can be provided as per the Brownfield Cleanup Agreement. If you have any questions, please feel free to contact me.

Thank You,

Adam Morgan

Adam Morgan, EIT
Environmental Engineer, Division of Environmental Remediation

New York State Department of Environmental Conservation
6274 East Avon-Lima Rd. Avon, NY 14414
P: (585) 226-5356 | F: (585) 226-8139 | adam.morgan@dec.ny.gov

From: Jeff Danzinger [mailto:JDanzinger@daymail.net]
Sent: Friday, March 16, 2018 7:40 AM
To: Morgan, Adam T (DEC) <Adam.Morgan@dec.ny.gov>
Cc: Theobald, Charlotte B (DEC) <charlotte.theobald@dec.ny.gov>; Steve Gibbs (Steve@GibbsMarine.com) <Steve@GibbsMarine.com>; Steve Gibbs <gibbs@rochester.rr.com>; Heather McLennan <hmclennan@daymail.net>; 'Andrew J. Osborne' <aosborne@villagerci.com>
Subject: Genesee Marina, BCP Site #C818130

Hi Adam,

Attached are particle size analysis reports for 2" minus recycled concrete aggregate (RCA) from Villager's NYSDEC registered Part 360 Aggregate Recycling Facility @ 200 Ferrano Street, Rochester, NY 14606. NYSDEC Registration Number 28W14.

One sample contained 10% fines that passed through a #80 sieve, and the second sample contained 9% fines that passed through a #80 sieve. Based on these two samples, an average of 9.5% of fines passed through a #80 sieve.

Can the NYSDEC approve this material for use at the above-referenced Site without chemical testing?

Jeff

Jeffrey A. Danzinger
Day Environmental, Inc.
1563 Lyell Avenue
Rochester, New York 14606
Phone: (585) 454-0210 ext:114
Fax: (585) 454-0825

Jeff Danzinger

From: Jeff Danzinger
Sent: Friday, March 16, 2018 7:40 AM
To: Morgan, Adam T (DEC)
Cc: 'Charlotte.theobald@dec.ny.gov'; Steve Gibbs (Steve@GibbsMarine.com); Steve Gibbs; Heather McLennan; 'Andrew J. Osborne'
Subject: Genesee Marina, BCP Site #C818130
Attachments: RT1576SL-001-03-18.pdf; RT1576SL-002-03-18.pdf

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Can the NYSDEC approve this material for use at the above-referenced Site without chemical testing?

Jeff

Jeffrey A. Danzinger
Day Environmental, Inc.
1563 Lyell Avenue
Rochester, New York 14606
Phone: (585) 454-0210 ext:114
Fax: (585) 454-0825

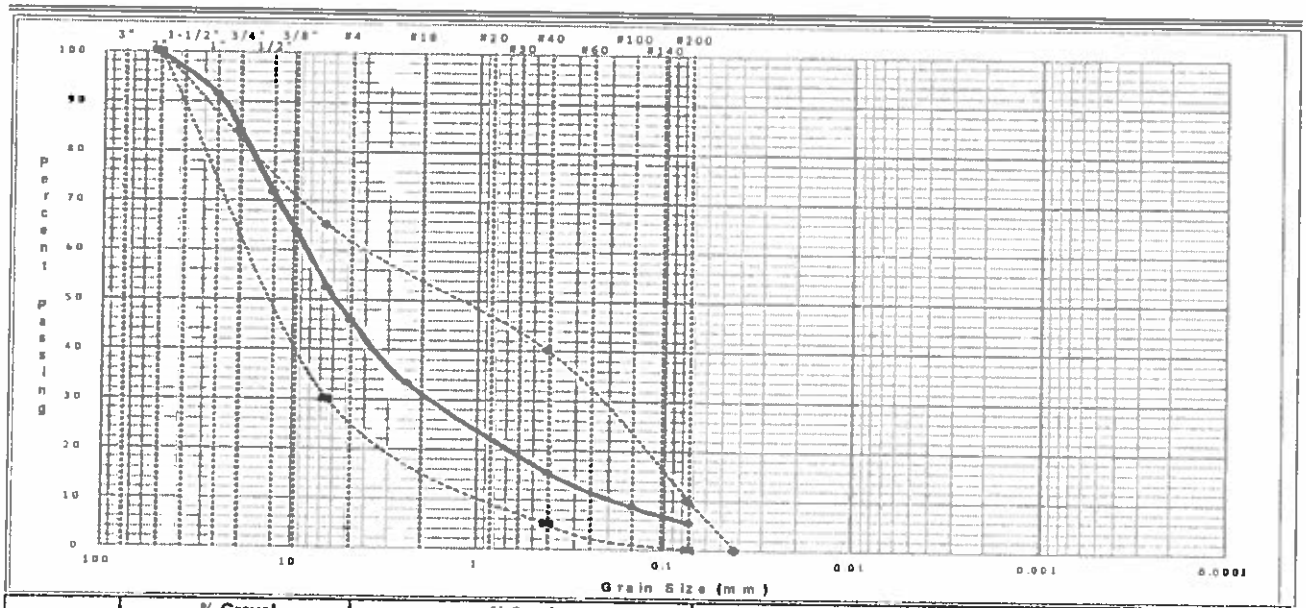
ATLANTIC TESTING LABORATORIES

PARTICLE SIZE ANALYSIS REPORT No.: RT1576SL-001-03-18

WBE certified company

Client: Villager Construction Company, Inc.
Project: Soil Testing
3495 Winton Place
Rochester, Monroe County, New York
Location: Villager, 200 Ferrano Street, Rochester, NY

Sample Date: March 09, 2018
Sampled By: J. Leverett
Service Order No.: 5933
Sample No.: RT1576S-01



% +3"	% Gravel			% Sand			% Fines
	Coarse	Medium	Fine	Coarse	Medium	Fine	
0	16	20	18	11	16	10	6

SIEVE SIZE	PERCENT FINER	SPEC. LOW	SPEC. HIGH	OUT OF SPEC. (X)
2 in	100	100	100	
1.00 in	91			
3/4 in	84			
1/2 in	72			
3/8 in	64			
1/4 in	52	25	60	
No. 4	46			
No. 8	33			
No. 10				
No. 20				
No. 40	16	5	40	
No. 80	10	0	10	
No. 100	9			
No. 200	5.6	0.0	10.0	

NYSDOT 304-2/733-04 Type 2 (Table 304-1)

Soil Description

Minus 2" RCA

Atterberg Limits

PL= — LL= — PI= —

Coefficients

D_{85}= 19.8942 D_{60}= 8.3100 D_{50}= 5.7032
D_{30}= 1.7255 D_{15}= 0.3873 D_{10}= 0.1814
C_u = 45.8054 C_c = 1.9749 F.M.= —

Classification

USCS= AASHTO=

Remarks

Reviewed by: _____

Date: Mar 15, 2018

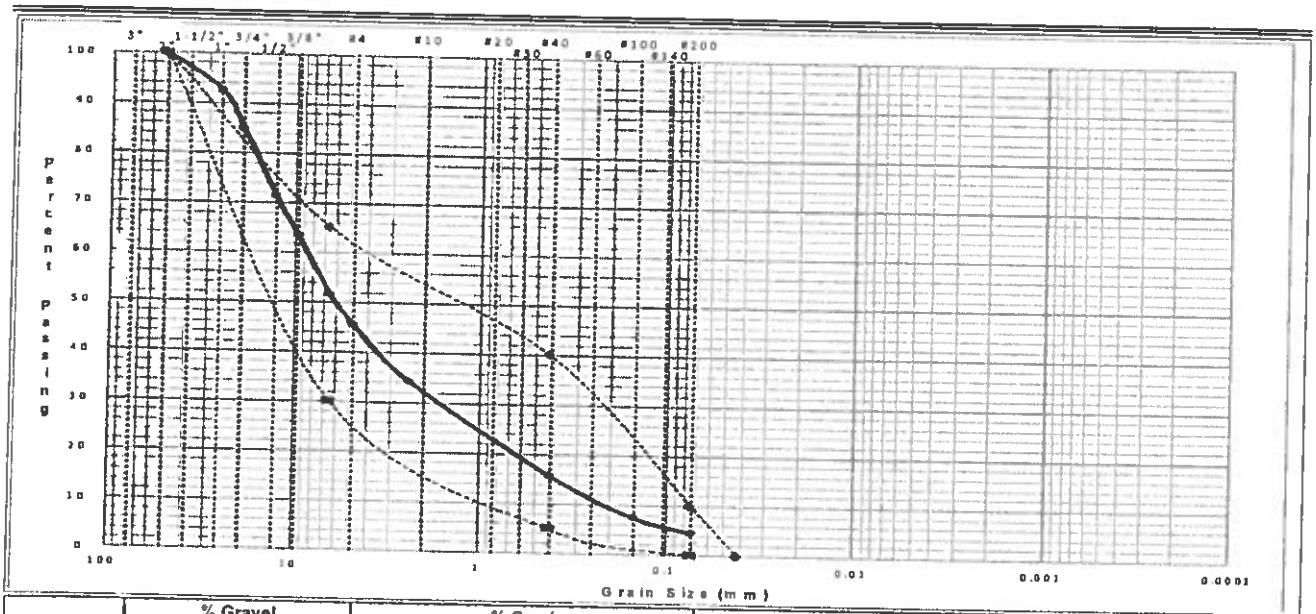
ATLANTIC TESTING LABORATORIES

PARTICLE SIZE ANALYSIS REPORT No.: RT1576SL-002-03-18

WBE certified company

Client: Villager Construction Company, Inc.
Project: Soil Testing
3495 Winton Place
Rochester, Monroe County, New York
Location: Villager, 200 Ferrano Street, Rochester, NY

Sample Date: March 09, 2018
Sampled By: J. Leverett
Service Order No.: 5933
Sample No.: RT1576S-02



% +3"	% Gravel			% Sand			% Fines
	Coarse	Medium	Fine	Coarse	Medium	Fine	
0	15	21	18	11	17	11	5

SIEVE SIZE	PERCENT FINER	SPEC. LOW	SPEC. HIGH	OUT OF SPEC. (X)
2 in	100	100	100	
1.00 in	93			
3/4 in	85			
1/2 in	71			
3/8 in	63			
1/4 in	52	25	60	
No. 4	46			
No. 8	34			
No. 10				
No. 20				
No. 40	16	5	40	
No. 80	9	0	10	
No. 100	8			
No. 200	4.6	0.0	10.0	

NYSDOT 304-2/733-04 Type 2 (Table 304-1)

Soil Description

2" Minus RCA

Atterberg Limits

PL= —
LL= —
PI= —

Coefficients

D_{85}= 19.2389
D_{60}= 8.4755
D_{50}= 5.8827
D_{30}= 1.5961
D_{15}= 0.3776
D_{10}= 0.2030
C_u = 41.7337
C_c = 1.4801
F.M.= —

Classification

USCS=
AASHTO=

Remarks

Reviewed by: _____

Date: Mar 15, 2018