2023 Annual Vegetation and Wetland Monitoring Report
Saranac Lake Gas Company, Inc.
NYSDEC Site 516008
Saranac Lake, Essex County, New York

Work Assignment No. D009806-34

Prepared for

New York State Department of Environmental Conservation
Division of Environmental Remediation
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Prepared by

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January 2024

Revision: FINAL
EA Project No. 1602534

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LIST OF ACRONYMS AND ABBREVIATIONS

%	Percent
EA	EA Engineering, P.C. and its Affiliate EA Science and Technology
FAC	Facultative
No.	Number
NWP	Nationwide Permit
NYSDEC	New York State Department of Environmental Conservation
USACE	U.S. Army Corps of Engineers

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1. INTRODUCTION

EA Engineering, P.C. and its affiliate EA Science and Technology (EA) was retained by the New York State Department of Environmental Conservation (NYSDEC) to perform annual vegetation and wetland monitoring associated with the remediation work conducted at the Saranac Lake Gas Company (Co.), Inc. Site (NYSDEC Site Number [No.] 516008) in the Village of Saranac Lake, Essex County, New York (Figure 1). Site design, regulatory authorization, and the previous 2 years of annual reporting were completed by others and EA was retained by NYSDEC to monitor the site starting in April 2023. The following description of the project is based upon information presented in previous monitoring reports.

The NYSDEC has completed remediation at the site associated with Permit Application No. NAN-2017-0040-UDE, which included the condition to restore 1,360 linear feet of existing stream channel, 0.58 acres of riparian emergent and scrub shrub wetland, 0.09 acres of upland riparian area and stream bank, 71,650 square feet of Pontiac Bay, and 175 feet of shoreline.

The purpose of this report is to fulfill the requirements of the U.S. Army Corps of Engineers (USACE) authorization to complete remediation and restoration activities within jurisdictional areas under the USACE Nationwide Permit (NWP) 38 in which an annual monitoring report is required to describe the conditions of the restored wetlands and riparian areas for a period of 5 years to ensure that permit conditions and restoration objectives are being met at the conclusion of the 5-year monitoring period.

EA has been tasked with conducting the annual vegetation and wetland monitoring of the restored areas as detailed in the approved design plans (Appendix A). This report presents a summary of the 2023 annual monitoring activity conducted to ensure the long-term success of the restored wetland, stream and riparian areas conducted as part of the remedial action. Since the project site OU's were restored during different years the 5 year monitoring period for each OU is slightly different as described in Table 1.

Table 1. Current Monitoring Status of Each OU

OU	Common Name	Monitoring Subset Area	Date of Restoration	Monitoring Year (1-5)
OU1	Wetland Areas	WP-1	June 2022	1
		WP-2		
OU2	Brandy Brook Area	BB-1	June 2019	3
		BB-2		
OU3	Lake Flower Area	LF-1	June 2019	3
		LF-2		
		LF-3		
		Cedar Area		

1.1 GOALS AND OBJECTIVES

Annual monitoring of the restored wetland areas, stream channel, and riparian areas is required to be conducted to meet the conditions of the authorization received from USACE to perform the remediation under NWP 38. The annual monitoring must be conducted to ensure the permittee

successfully restored 1,360 linear feet of Brandy Brook, 0.58 acres of riparian emergent and scrub shrub wetland, 0.09 acres of upland riparian area and stream bank, 71,650 square feet of Pontiac Bay, and 175 feet of shoreline.

Per the Special Conditions of NWP 38, the following criteria shall be met for successful restoration of the site:

- Ensure that all proposed wetland, upland, and stream restoration plantings have an 85 percent (%) survival rate.
- Ensure that the newly established planting areas do not consist of more than a total of 5% areal coverage of invasive species.
- Ensure that no mowing of the restoration areas has occurred.
- Complete wetland data sheets within restored wetland areas to document wetland characteristics including wetland hydrology exists with the wetland areas.

In order to determine if these goals and objectives are being met within the restored areas, the annual monitoring for this year's effort as well as future efforts will be conducted annually following the methods provided in this report for a period of 5 years. At the end of the 5th monitoring year, EA will include a discussion in the annual monitoring report to identify if additional monitoring should be conducted after the 5th year and make recommendations for monitoring to be terminated if the conditions are acceptable to the regulatory agencies.

2. METHODS

To satisfy both USACE and NYSDEC monitoring requirements, the restoration monitoring efforts include the collection of specific data for reporting, including the requirements below, which are described in more detail in the sections that follow:

- Wetland, Riparian, and Upland Vegetation Monitoring
- Documentation of Erosion and Signs of Instability Along Brandy Brook and the Banks of Lake Flower
- Hydrology Monitoring within Restored Wetland Areas
- Development of Anaerobic Soil Conditions with Wetland Areas

For the annual monitoring, the project site was separated into three sections, consisting of the banks of Lake Flower, Brandy Brook, and the two restored wetland areas. These sections were separated based on the monitoring methods utilized to document the site conditions and are depicted on Figures 2 through 4 (Appendix B).

During an on-site discussion with NYSDEC staff it was requested to break the monitoring area into distinct areas based on existing on-site conditions to provide recommendations relevant to specific areas, rather than broad general recommendations. Therefore, a total of 8 distinct monitoring areas were established on-site, as depicted on Figures 2 through 4, and described in greater detail in the following sections. These 8 distinct monitoring areas were established during the 2023 monitoring effort and should be assessed throughout the 5-year monitoring period. Wetland monitoring areas and key observations were located with a global positioning system in the field for repeat monitoring and are depicted on the figures in Appendix B. Location and directions of on-site photographs are depicted on Figures 5 and 6 (Appendix B) and on-site photographs are provided in Appendix D.

2.1 LAKE FLOWER

The banks of Lake Flower were monitored to determine the successful restoration of the vegetation along the banks and note areas of erosion and instability. The Lake Flower Restoration Section was separated into four distinct monitoring areas (Figure 2). These four monitoring locations consisted of three sections of shoreline on the northern banks of Lake Flower (LF-1, LF-2, and LF-3) and one are of Cedar plantings on the southern bank of Lake Flower. Within the Lake Flower Monitoring Areas, EA conducted a visual survey of the planted material and conducted an estimate of survivability based on counting live and dead woody stems along the shoreline, as well as estimating percent cover of native vegetation and percent cover of invasive species. General observations on restoration success and areas of concern, such as erosion and instability, were also documented within each monitoring area.

2.2 BRANDY BROOK

The stream channel identified as Brandy Brook was monitored to determine the successful restoration of the stream which included the successful establishment of riparian vegetation along the banks and identification of any areas of erosion and instability within the channel. Brandy Brook Restoration Section was separated into two distinct monitoring areas (Figures 3 and 4). These two monitoring areas included the northern portion of Brandy Brook (BB-1) located between Slater Avenue and Pine Street and the southern portion of Brandy Brook (BB-2) located between Brandy Brook Avenue and Wetland Area 2. Within the Brandy Brook Monitoring Areas, EA conducted a visual survey of the restored stream banks to document the percent vegetation cover along the banks and identify areas of bare earth lacking vegetation, as well as estimating percent cover of invasive species. General observations on restoration success and areas of concern, such as erosion and instability, were also documented within Brandy Brook.

2.3 WETLAND AREAS

Two wetland areas were restored as part of the remediation effort and are both located along the southern portion of the project site at the upstream end of Brandy Brook (Figure 4). These two wetlands were monitored to determine the successful restoration of the vegetation within the wetlands as well as ensuring wetland characteristics, such as wetland hydrology and hydric soils, are developing. The northern wetland monitoring area (Wet-1) consists of an emergent wetland which was seeded with an emergent wetland mix, and the southern wetland monitoring area (Wet-2) consists of a newly planted forested wetland. Within the two wetland areas, EA completed formal wetland data sheets (Appendix C) to ensure all three wetland criteria are present and the two areas meet the requirements of a wetland. In addition to the formal wetland data plot, EA also conducted a meander search throughout the two wetlands to estimate coverage of invasive species and estimate total plant cover throughout the wetlands. Within the newly planted Wet-2 area, EA also conducted an estimate of survivability based on counting live and dead woody stems. General observations on restoration success and areas of concern, such as erosion and instability, were also documented within each wetland area.

A formal wetland delineation data form for the Northcentral and Northeast Region was completed within each wetland area to document the vegetation species, wetland hydrology indicators, and hydric soil conditions within each wetland monitoring area. Field personnel collected soil to a depth of approximately 18 inches or until refusal was encountered to observe soil conditions and classify the soil as either hydric or non-hydric.

Wetland hydrology supplies the moisture required to support wetland vegetation and creates the conditions necessary for the formation of hydric soils. Primary indicators of wetland hydrology include, but are not limited to, observed inundation or saturation, watermarks, drift deposits, sediment deposits, aquatic fauna, oxidized rhizospheres on living roots, and water-stained leaves. Secondary indicators of wetland hydrology include, but are not limited to, drainage patterns, dry season water table, crayfish burrows, and the Facultative (FAC)-Neutral Test. The FAC-Neutral Test involves comparing the number of obligate and facultative wetland plant species to the number of facultative upland and upland plant species, with FAC species being neutral. If 50% or more of the plant species are obligate or facultative wetland, the FAC-Neutral Test is met. Meeting

the FAC-Neutral Test is considered a secondary indicator of wetland hydrology. An area must contain at least one primary indicator or two secondary indicators of wetland hydrology for the parameter of wetland hydrology to be met.

Hydric soils are soils that are saturated, ponded, or flooded long enough during the growing season to develop anaerobic conditions in the upper portion of the soil column (typically within the upper 18 inches). The prolonged presence of water results in the chemical reduction of elements, particularly iron and manganese. Reduced soils often exhibit a gray (or "gleyed") color that reflects either the leaching of elements or the presence of reduced elements (again, generally iron and manganese).

Hydric soils are often characterized by bright mottles, sometimes called redoxymorphic features. Mottles are an indication of incomplete saturation. They typically represent isolated pockets where elements (mainly iron) have remained oxidized. Another feature of hydric soils is a low matrix chroma in the diagnostic zone, which is typically identified as the upper 18 inches of the soil layer but may vary. For mineral hydric soils, the diagnostic zone typically must have a matrix chroma of two or less for soils with mottles, or a matrix chroma of one or less for soils without mottles. To make this determination, soil cores are collected in the field in suspected wetland areas, and the soil colors are compared to a Munsell Soil Color Chart. Other examples of field indicators for hydric soils include, but are not limited to, high organic content, histic epipedons, and concretions.

Since hydric soils indicators in newly created or recently disturbed wetlands can be difficult to observe, the hydric soils assessment was supplemented with the use of alpha, alpha-dipyridyl test strips to determine the presence of ferrous iron in the soil. These test strips are placed on the face of a soil sample and soaked with water. If ferrous iron is present in the soil sample, the test strips turn reddish pink. Within each wetland plot, a soil sample was collected, and test strips were placed on the soil sample in 4-inch increments from a depth of 0 inches down to 16 inches.

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3. RESULTS

Annual monitoring was performed on 6 June 2023, which included general observations of wetland hydrology and soils as well as vegetation assessments within the restored wetlands, stream banks, and riparian areas.

3.1 LAKE FLOWER

The Lake Flower section of the project site included the riparian banks of the lake and monitoring included documenting the survivability of planted woody stems along the banks, as well as percent native vegetation cover and percent invasive coverage. A total of four monitoring areas were established during the 2023 annual monitoring event, as depicted on Figure 2, and were evaluated during this monitoring event. Based on the data collected during this monitoring event, monitoring area LF-3 and the Cedar Area are both exceeding the success criteria for survivability and invasive cover. LF-1 and LF-2 are also successful in respect to invasive cover but have a woody stem survivability below the 85% requirement (Table 2). In both LF-1 and LF-2 numerous dead live stakes were observed along the lower portion of the banks in over 6 inches of water at the time of the monitoring event. During the monitoring event no live woody stems were identified within the LF-1 monitoring area. Although 10 live woody stems were identified within LF-2, a total of 25 dead stems were identified within this monitoring area, typically found along the lower portion of the bank below the waterline. Additionally, wildlife browsing was also observed on numerous woody stems within LF-2.

Table 2. Lake Flower Monitoring Results

Area No.	No. of Live Woody Stems	No. of Dead Woody Stems	Survivability	% Native Cover	% Invasive Cover
LF-1	0	4	0%	100%	0%
LF-2	10	25	29%	60%	5%
LF-3	59	7	89%	90%	2%
Cedar Area	34	0	100%	90%	0%
Total	**83**	**39**	**68.0%**	**85%**	**1.8%**

No signs of bank erosion or instability were observed within the Lake Flower section of the project site.

3.2 BRANDY BROOK

The Brandy Brook section of the project site included the restored stream channel riparian banks of the lake and monitoring included documenting any signs of erosion or instability along the banks or within the stream channel and at constructed restoration structures, as well as estimating percent native vegetation cover, and percent invasive coverage throughout the riparian areas adjacent to the stream channel. The Brandy Brook section of the project site is separated into two monitoring areas which were established during the 2023 annual monitoring event as depicted on Figures 3 and 4 and were evaluated during this monitoring event. Based on the data collected during this monitoring, the riparian areas adjacent to the stream channel in both BB-1 and BB-2

are currently exceeding the success criteria for vegetation cover (85% coverage) and have an invasive species cover below 5% (Table 3). Sections of riprap placed upstream and downstream of multiple culverts within both BB-1 and BB-2 contribute to the vegetation cover being below 100%.

Table 3. Brandy Brook Monitoring Results

Area No.	% Native Cover	% Invasive Cover	Observations / Areas of Concern
BB-1	90%	0%	The area directly east of Slater Avenue has limited vegetation cover along the bottom of the bank along the core fiber log. Live stakes may be suitable in this area.
BB-2	95%	1%	Rip-rap slope at corner of Pine Street and Brandy Brook Avenue appears to receive significant street runoff and should be monitored closely. The concrete headwall and box culvert between BB1 and BB-2 has signs of scour and should be closely monitored in future events. Areas of previously identified invasive species (Japanese knotweed) have been treated successfully.
Total	**92.5%**	**1%**	

During the monitoring effort, EA personnel did not observe areas of stream bank erosion or signs of stream instability along the channel. However, at the concrete box culvert, signs of scour under the concrete headwall were noted and should be closely monitored. Additionally, NYSDEC noted concern over the potential of future erosion along the rip-rap slope at the corner of Pine Street and Brandy Brook Avenue, since this location appears to receive significant runoff from the roads. No signs of erosion or rip-rap instability were noted during the 2023 monitoring event, but this area should be closely monitored in future events. The stream channel appears to be well connected to the wetlands and floodplain, and photographic documentation of the current channel conditions is provided in Appendix C. Established stream photograph locations are provided on Figures 5 and 6 (Appendix B). The core fiber log along the bottom of the stream bank looked good throughout BB-1 and BB-2 with the exception of a small area near the box culvert between BB-1 and BB-2, which had become dislodged from the stake on one end. However, this core log was re-staked in the field during the monitoring event. All in-stream structures and habitat features were visually observed during the monitoring event and are in place and appear to be properly functioning per the design plans. Although the previously identified Japanese knotweed areas have been treated and are below the 5% cover threshold, the areas of previously identified Japanese knotweed should continue to be monitored and treated as identified.

3.3 WETLAND AREAS

The restored wetland areas of the project site included one emergent wetland and one forested/shrub wetland. The monitoring for these two wetlands included documenting the survivability of planted woody stems within Wet-2 only, as well as percent native vegetation cover, percent invasive coverage in both wetlands, documenting the presence of hydric soils, wetland hydrology, and noting any additional issues or concerns with the successful restoration of these areas back to wetlands. A total of two monitoring areas were established during the 2023 annual

monitoring event (Figure 4) and were evaluated during this monitoring event. Based on the data collected during this monitoring event, both wetlands are achieving the success criteria for survivability, vegetation cover, and invasive cover; as well as the presence of hydric soils and wetland hydrology (Table 4).

Table 4. Wetland Areas Monitoring Results

Area No.	No. of Live Trees	No. of Dead Trees	Survivability	% Native Cover	% Invasive Cover	Hydric Soils	Wetland Hydrology
Wet-1	N/A	N/A	N/A	100%	0%	Yes	Yes
Wet-2	76*	4	95%	85%	0%	Yes	Yes
Total	**76**	**4**	**95%**	**92.5%**	**0%**		

*Three trees were noted as being in poor condition, although still alive, and did not show signs of vigorous growth

The original planting count as indicated in the Annual Monitoring Report - Year 2 (2022); Wet-2 included 95 woody stems (24 white pine, 23 red maple, 23 birch, and 25 dogwood). However, in April 2023 it was noted that 10 of the white pine were not successful and were replaced with more tolerant wetland species (*Acer* rubrum - red maple). During the 2023 monitoring event a total of 80 planted woody stems were observed within the wetland area with 76 live stems and 4 dead stems, for a survivability of 95%. However, if 95 stems were actually planted in the wetland area then the current survivability would only be 80%. However, it appears some of these trees were planted along the opposite bank of the stream channel along the riparian edge and therefore were not included in the wetland survivability calculations. It should be noted that no dead standing trees or shrubs were observed along the opposite bank of the stream channel during the wetland monitoring effort. The native vegetation cover in Wet-2 is right at the requirement of 85%, but this appears to be due to the recent removal of remaining silt fence in the wetland as well as, replanting activities within this wetland that required planting of additional trees, including additional reseeding of slightly disturbed areas from equipment. The native herbaceous cover is therefore expected to be higher in the following monitoring years.

Wetland hydrology indicators as well as hydric soils were identified throughout both wetlands. A formal USACE wetland data sheet was collected within each wetland area. At each data collection location, EA obtained a soil sample (14-18 inches deep) using a stainless-steel auger. The hydric soils indicator of a depleted matrix was observed within each wetland. Additionally, wetland hydrology including drainage patterns, passing of the FAC-Neutral Test, and presence of reduced iron were observed in both wetlands. Saturated soils were identified within Wet-1 and sediment deposits and drift deposits were identified within Wet-2.

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4. CONCLUSIONS / RECOMMENDATIONS

In general, the restored wetlands, stream channel, and riparian areas appear to be functioning as designed and invasive species are below the required 5%. The two wetland areas are meeting or exceeding the success criteria and the stream channel is stable and functioning as designed. However, areas along the Lake Flower section of the project site currently do not meet the success criteria for restoration and will need to be addressed to reach the restoration goals prior to the end of the 5-year monitoring period.

Monitoring areas LF-1 and LF-2 currently do not meet the survivability requirement of planted woody stems, which is set at 85%. Many of the live stakes appear to have been planted along the lower portion of the banks below the water line. NYSDEC expressed concern over the lack of bank shading within these two monitoring areas, which should be planted with shrubs along the top of bank, along the riprap edge or additional small trees should be planted to provide shade along the shoreline. Table 5 provides a general planting recommendation for areas LF-1 and LF-2, which includes planting shrubs along the top of the rip-rap edge within LF-1 and along the banks of LF-2. The presence of large rock and rip-rap in these two areas along the banks would likely inhibit the placement of additional live stakes along the bank.

Table 5. Proposed Riparian Plantings

Scientific Name	Common Name	Size	Quantity
LF-1			
Cephalanthus occidentalis	Buttonbush	1 gallon	8
Betula nigra	River birch	5-7 gallon	4
Acer rubra	Red Maple	5-7 gallon	4
LF-2			
Cephalanthus occidentalis	Buttonbush	1 gallon	3
Betula nigra	River birch	5-7 gallon	3
Spiraea alba	White meadowsweet	1 gallon	3

All plants shall be sourced from stock grown within a 150-mile radius of the project site, acclimated to the climate of Upstate New York, and grown from naturally occurring ecotypes in the region. Substitutions to plant species, type, size, and origin may be made at the approval of NYSDEC based on species availability.

The rip-rap slope and box culvert located between BB-1 and BB-2 should continue to be closely monitored during future monitoring events to ensure erosion or scour continues in this area, although adaptive management activity is required at this time. Similarly, the recently planted area within Wet-2 should be closely monitored to ensure disturbed ground cover is re-established by the 2024 monitoring event.

Invasive species throughout the project site are sparse and under the restoration goal. However, the previously identified areas of Japanese knotweed should continue to be monitored, and continued treatment is recommended for 2023 and 2024. The two previously identified knotweed areas appear to have been successfully treated but a small area of regrowth was identified along BB-2 in the location of photograph 23 (Figure 5). If not continuously treated, this population can

re-establish and exceed the 5% threshold rapidly, as Japanese knotweed is an aggressive, fast growing invasive species.

Appendix A

Design Drawings

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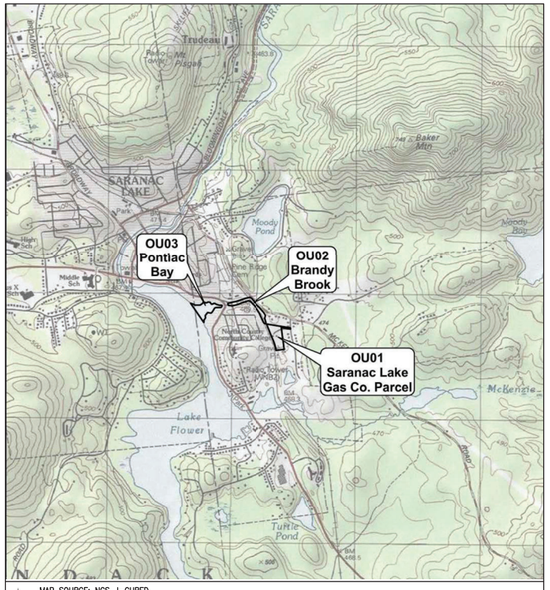
REMEDIAL ACTION RECORD
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SARANAC LAKE GAS CO., INC., SITE NO. 516008
OU02: BRANDY BROOK AND OU03 PONTIAC BAY ON LAKE FLOWER
SARANAC LAKE, NEW YORK
MARCH, 2020
CONTRACT NO. D010663



MAP SOURCE: NGS, I-CUBED

PROJECT SITE:
BRANDY BROOK AND SARANAC LAKE:
TOWN OF SARANAC LAKE SECTION SITE
RIVER STREET, ROUTE 86
SARANAC LAKE, NEW YORK

N

0 1000 2000 4000
SCALE IN FEET

LOCUS MAP

MAP SOURCE: AERIAL PHOTOGRAPH FROM HTTP://NYSGIS.STATE.NY.US

N

0 250 500 1000
SCALE IN FEET

KEY MAP

DRAWING INDEX

INCLUDED THIS SUBMITTAL	SHEET NUMBER	DRAWING TITLE	DISCIPLINE NUMBER
●	1	COVER SHEET	G-001
●	2	NOTES, LEGENDS, AND ABBREVIATIONS	G-002
●	3	BOTTOM OF EXCAVATION – OU02	C-201
●	4	BOTTOM OF EXCAVATION – OU02	C-202
●	5	PLAN AND BASELINE PROFILE – OU02	C-203
●	6	PLAN AND BASELINE PROFILE – OU02	C-204
●	7	PLAN AND BASELINE PROFILE – OU03	C-205
●	8	FINAL PLAN BOAT LANCH	C-206
●	9	BOTTOM OF ISS AREA	C-207
●	10	TOP OF MONOLITH/SAND WEDGE SURVEY ISS AREA	G-208
●	11	FINAL GRADE OF ISS AREA	C-209

CONSTRUCTION CONTRACTOR:

LAND REMEDIATION
74 HUDSON RIVER ROAD
WATERFORD, NY 12188

STATE OF NEW YORK LICENSED PROFESSIONAL ENGINEER
03/31/20

NO.	DATE	DR	CHK	APVD	BY
1	3/31/20	MAP	BRT	MAP	MJS
DSGN		MAP		APVD	MJS

RECORD DRAWING
REVISION

NEW YORK STATE OF OPPORTUNITY. Department of Environmental Conservation

REMEDIAL ACTION
SARANAC LAKE GAS CO., INC.
SARANAC LAKE, NEW YORK
NYSDEC SITE NUMBER - 516008

MACTEC Engineering and Geology, P.C.
P.O. Box 7050, 511 Congress Street
Portland, Maine 04112-7050
(207) 775-5401

MACTEC

GENERAL
COVER

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	JAN 2020
PROJ	3611-16-1193
DWG	G-001
SHEET	1 OF 11

BASE MAP SOURCES:

1. MAP ENTITLED "REMEDIAL ACTION NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION SARANAC LAKE GAS CO., INC., SITE NO. 516008 OU02: BRANDY BROOK AND OU03 PONTIAC BAY ON LAKE FLOWER", DATED NOVEMBER 29, 2017 AND PREPARED BY MACTEC ENGINEERING AND CONSULTING, P.C.
2. FINAL AS-BUILT SURVEYS BY NMB LAND SURVEYING PLC, WYNANTSKILL, NY WITH VARIOUS SURVEY DATES FROM MAY 2018 TO JUNE 2019.
3. SURVEY SUBJECT TO ANY SUBSURFACE CONDITIONS THAT MAY EXIST, IF ANY.
4. NO UNDERGROUND UTILITY INVESTIGATION WAS PERFORMED.
5. THE DATUM USED FOR THIS SURVEY IS BASED ON MAP REFERENCE 1.

GENERAL NOTES:

1. THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION IS RESPONSIBLE FOR COORDINATING PERMISSIONS AND SECURING ACCESS AGREEMENTS TO PERMIT WORK AND CONSTRUCTION SUPPORT ACTIVITIES ON THE PROPERTIES ADJACENT TO THE LIMIT OF WORK.
2. WATER SURFACE ELEVATIONS SHOWN ARE APPROXIMATE AND BASED ON FIELD OBSERVATIONS OF THE WORK AREA DURING COMPLETION OF THE 2017 SURVEY. ACTUAL WATER ELEVATIONS MAY VARY IN THE FIELD.
3. SELECT A CONSTRUCTION SEQUENCE AND METHODOLOGY THAT MINIMIZES IMPACTS TO BUSINESSES AND PUBLIC AREAS IN THE VICINITY OF THE WORK.
4. THE LOCATION OF EXISTING UNDERGROUND UTILITIES AND STRUCTURES SHOULD BE CONSIDERED APPROXIMATE. OTHER UNIDENTIFIED UNDERGROUND FEATURES MAY BE PRESENT. VERIFY THE LOCATION OF ALL EXISTING UTILITIES OR STRUCTURES WITHIN THE LIMIT OF WORK PRIOR TO THE COMMENCEMENT OF EARTH DISTURBING ACTIVITIES. DIG SAFELY NEW YORK: 811 OR 1-800-962-7962.
5. SHOULD UNCHARTED, OR INCORRECTLY CHARTED, PIPING OR OTHER UTILITIES BE ENCOUNTERED DURING EARTH DISTURBING ACTIVITIES, CONSULT THE UTILITY OWNER AND ENGINEER IMMEDIATELY FOR DIRECTION. REPAIR OR COORDINATE REPAIR OF CONTRACTOR-DAMAGED UTILITIES TO THE SATISFACTION OF THE UTILITY OWNER, PROPERTY OWNER, AND ENGINEER.
6. DO NOT INTERRUPT EXISTING UTILITIES SERVING OCCUPIED FACILITIES WITHOUT ADVANCED NOTIFICATION TO THE DEPARTMENT AND THE OWNER. PROVIDE COORDINATION AND TIMELY NOTIFICATION TO THE AFFECTED UTILITY OWNER FOR SHUT-OFF AND RE-CONNECTION OF SERVICES FOR TEMPORARY REMOVAL AND REPLACEMENT DURING AND FOLLOWING EARTH DISTURBING ACTIVITIES. PROVIDE TEMPORARY FACILITIES DURING CONSTRUCTION.
7. CONTROL DUST GENERATION THROUGHOUT THE DURATION OF THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. DUST MONITORING WILL CONSIST OF CONTINUOUS PARTICULATE/DUST VISUAL OBSERVATION FOR DUST GENERATION DURING EXCAVATION/CONSTRUCTION ACTIVITIES. DURING NON-WORKING HOURS, LEAVE THE SITE IN A CONDITION THAT WILL PREVENT DUST FROM BEING GENERATED. MONITOR WEATHER REPORTS FOR DRY AND/OR WINDY CONDITIONS AND PREPARE THE SITE ACCORDINGLY.
8. AIR MONITORING WILL BE UNDERTAKEN BY THE RA CONTRACTOR AT THE PERIMETER OF THE WORK AREA TO DETERMINE WHEN ADDITIONAL ENGINEERING CONTROLS (E.G., WATER SPRAY) ARE REQUIRED TO SUPPRESS DUST EMISSION DURING THE EXECUTION OF THE WORK. AIR MONITORING WILL ALSO BE CONDUCTED TO MEASURE AMOUNTS OF VOLATILE ORGANIC COMPOUNDS (VOCS) ASSOCIATED WITH MGP WASTE, INCLUDING BENZENE AND NAPHTHALENE, ANTICIPATED TO BE RELEASED DURING THE RA.
9. CONTROL ODOR GENERATION THROUGHOUT THE DURATION OF THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. TYPICAL ODOR CONTROL MEASURES INCLUDE APPLYING HYDROCARBON VAPOR SUPPRESSING AGENTS, DETERGENTS, OR ODOR-SUPPRESSING FOAMS TO ACTIVE EXCAVATION AREAS AND STOCKPILED WASTES, AS WELL AS CONDUCTING SOIL STABILIZATION OPERATIONS IN TEMPORARY ENCLOSURES.
10. SEGREGATE CLEAN MATERIALS FROM MGP IMPACTED SOIL AND SEDIMENT AND STOCKPILE SEPARATELY.
11. COVER STOCKPILES WITH TARPS AND SANDBAG DURING NON-WORKING PERIODS.
12. DEWATER OR STABILIZE STOCKPILED WASTES TO MEET THE MOISTURE CONTENT AND WORKABILITY REQUIREMENTS OF THE FACILITY CHOSEN FOR OFF-SITE DISPOSAL. HISTORICAL FILTER BAG TEST RESULTS OF PONTIAC BAY SEDIMENTS ARE PROVIDED IN THE PRE-DESGN INVESTIGATION REPORT FOR THE CONTRACTOR'S REFERENCE. SUBMIT A MIX DESIGN FOR STABILIZING FINE-GRAINED DEPOSITS AS PART OF THE CONSTRUCTION WORK PLAN TO ENGINEER FOR APPROVAL IF STABILIZATION METHODS ARE USED.
13. COLLECT ALL CONSTRUCTION WATER, INCLUDING SURFACE WATER ENTERING THE WORK ZONE, WATER FROM DECONTAMINATION OF VEHICLES AND EQUIPMENT, AND WATER FROM EXCAVATION DEWATERING. CONSTRUCTION WATER SHALL BE TREATED ON-SITE AND DISCHARGED TO THE LOCAL POTW AT THE REQUIRED TREATMENT STANDARDS OR ALTERNATIVELY TO SURFACE WATER IF AVAILABLE PERMIT CRITERIA ARE MET. SUBMIT CONSTRUCTION WATER MANAGEMENT PLAN TO ENGINEER FOR APPROVAL.
14. PROVIDE APPROPRIATE PROTECTION FOR SITE WORKERS AND TRESPASSERS WHEN THERE IS DANGER OF FALLING INTO AN OPEN EXCAVATION.
15. ROADS SHALL BE KEPT CLEAN OF MUD AND DEBRIS AT ALL TIMES. ROADSIDE DRAINAGE SHALL BE MAINTAINED TO ASSURE EXISTING ROADWAY DRAINAGE IS NOT ADVERSELY IMPACTED.
16. MATERIALS, EQUIPMENT AND VEHICLES SHALL NOT BE STORED OR PARKED WITHIN ROADWAY RIGHT OF WAY.
17. WORK ZONE TRAFFIC CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH THE MOST RECENT NYSDOT STANDARD SPECIFICATION SECTION 619 WORK ZONE TRAFFIC CONTROL AND THE NATIONAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR STREETS AND HIGHWAYS LATEST EDITION AND THE NEW YORK STATE SUPPLEMENT.

LEGEND:

- UTILITY POLE
- TREE LINE
- WATER VALVE (WV)
- FIRE HYDRANT
- MONITORING WELL (W)
- BOLLARD
- SIGN (1 POST)
- SIGN (2 POST)
- CHAINLINK FENCE (X)
- LIGHT POST
- 1531 MINOR CONTOUR
- 1530 MAJOR CONTOUR
- 1538.7 GROUND SPOT ELEVATIONS
- 1538.4 TOP OF PIPE ELEVATION
- W WATER LINE
- G GAS LINE
- E UNDERGROUND ELECTRIC LINE
- S SEWER LINE
- (S) SEWER MANHOLE
- (D) DRAINAGE MANHOLE
- OH OVERHEAD UTILITY LINE
- GV GAS VALVE
- RAIL ROAD TRACKS
- ASPHALT
- GRAVEL AREA
- CONCRETE
- REACTIVE CORE MATTING AREA
- BASELINE CONTROL POINT
- DROP LOG STRUCTURES
- EDGE OF STREAM
- LIMIT OF EXCAVATION
- SHORE LINE
- LIMIT OF ISS
- RIP RAP AREA
- SOIL CHOKED STONE/ANGULAR STONE
- FISH CRIB
- FISH ROCK PILE
- MA PLACED MAPLE
- ASP PLACED ASPEN
- CH PLACED CHERRY
- DW PLACED DOGWOOD
- POP PLACED POPLAR
- BI PLACED BIRCH
- SP PLACED SPRUCE
- WP PLACED WHITE PINE

ABBREVIATIONS:

IN	INCH(ES)
FT	FOOT OR FEET
APPROX	APPROXIMATE
BM	BENCHMARK
CB	CATCH BASIN
CL	CENTER LINE
CMP	CORRUGATED METAL PIPE
DIA	DIAMETER
DWG	DRAWING
EL	ELEVATION
GPM	GALLON(S) PER MINUTE
HDPE	HIGH DENSITY POLYETHYLENE
INV	INVERT
ISS	IN SITU STABILIZATION/SOLIDIFICATION
MAX	MAXIMUM
MGP	MANUFACTURED GAS PLANT
MIN	MINIMUM
MW	MONITORING WELL
NAVD	NORTH AMERICAN VERTICAL DATUM
NTS	NOT TO SCALE
NYSDEC	NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
OC	ON CENTER
OH	OVERHEAD UTILITY
OZ	OUNCE
PEM	PALUSTRINE, EMERGENT WETLANDS
PSS	PALUSTRINE, SCRUB-SHRUB WETLANDS
PCB	POLYCHLORINATED BIPHENYL
TSCA	TOXIC SUBSTANCES CONTROL ACT
TYP	TYPICAL
RCM	REACTIVE CORE MAT
PP	POWER POLE

CONTROL POINTS:

Control ID	Northing	Easting	Elevation	Description
2984	1999774.077	592685.332	1545.690	CBP
2988	1999314.956	592741.973	1550.385	CBP
2990	1999792.272	592658.264	1548.420	BM X CUT HEADWALL
2992	2000430.759	591021.880	1535.420	BM X FLANGE BOLT
2995	2000427.836	590997.877	1533.149	CBP
2996	2000521.899	591344.323	1536.652	CBP
3391	2000553.347	590025.228	1533.671	CBP
3394	2000185.758	590794.364	1532.487	CBP
3395	2000591.134	589991.283	1531.622	USMH
3396	2000456.145	590110.605	1530.588	BL50 MAG
999997	2000472.213	590116.367	1531.863	BASE CIR

STATE OF NEW YORK LICENSED PROFESSIONAL ENGINEER — 03/31/20

NO.	DATE	DSGN	REVISION	CHK
1	3/31/20	MAP	RECORD DRAWING	BRT

APVD: MJS

UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW.

NEW YORK STATE OF OPPORTUNITY — Department of Environmental Conservation

REMEDIAL ACTION
SARANAC LAKE GAS CO., INC.
SARANAC LAKE, NEW YORK
NYSDEC SITE NUMBER - 516008

MACTEC Engineering and Geology, P.C.
P.O. Box 7051, 511 Congress Street
Portland, Maine 04112-7050
(207) 775-5401

MACTEC

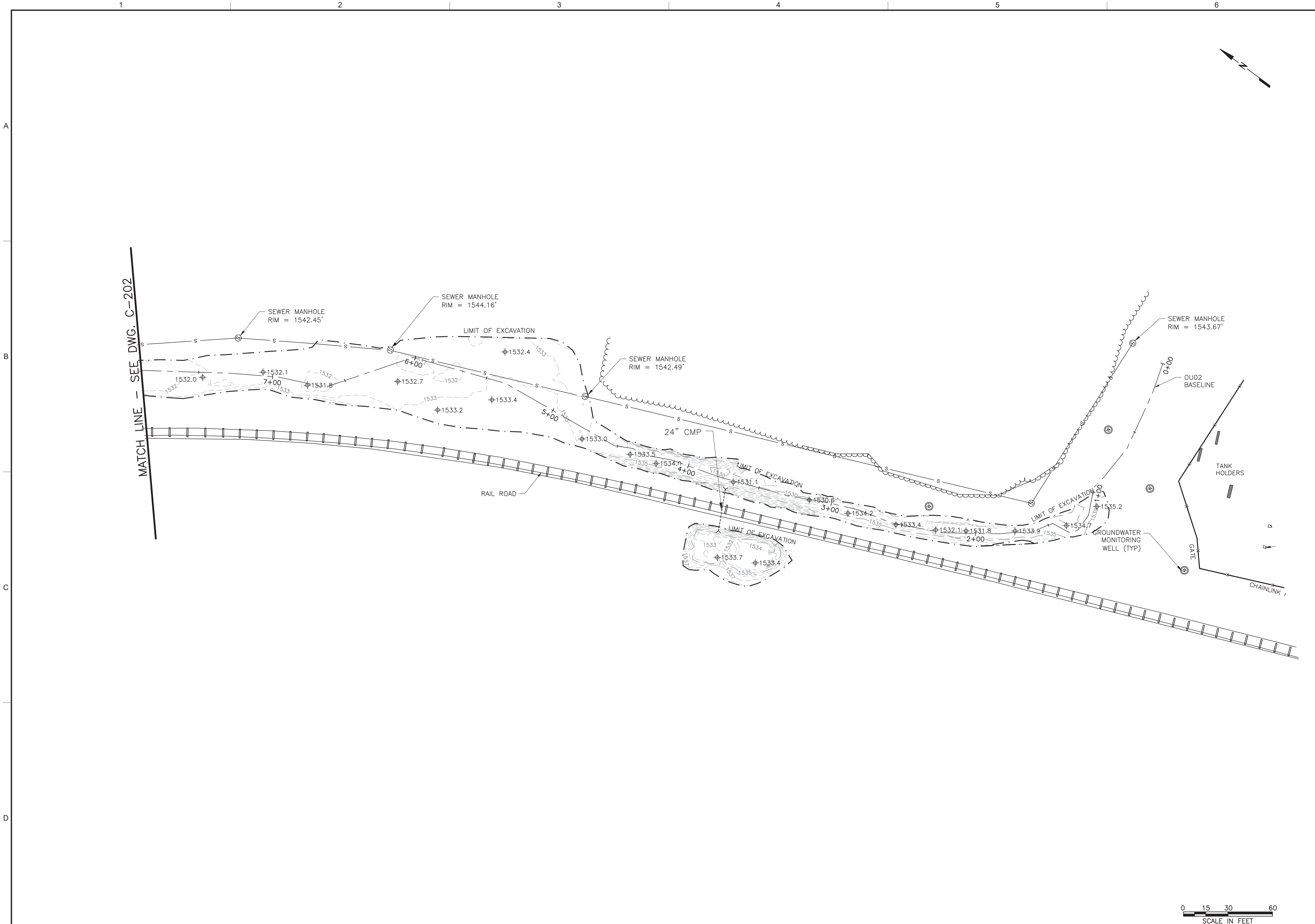
GENERAL

NOTES, LEGEND AND ABBREVIATIONS

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	JAN 2020
PROJ	3611-16-1193
DWG	G-002
SHEET	2 OF 11



NO.	DATE	REVISION	BY	APVD
1	3/31/20	RECORD DRAWING	MAP	MJS

DSGN MAP | DR MAP | CHK BRT | APVD MJS

03/31/20

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BOTTOM OF EXCAVATION
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DATE	JAN 2020
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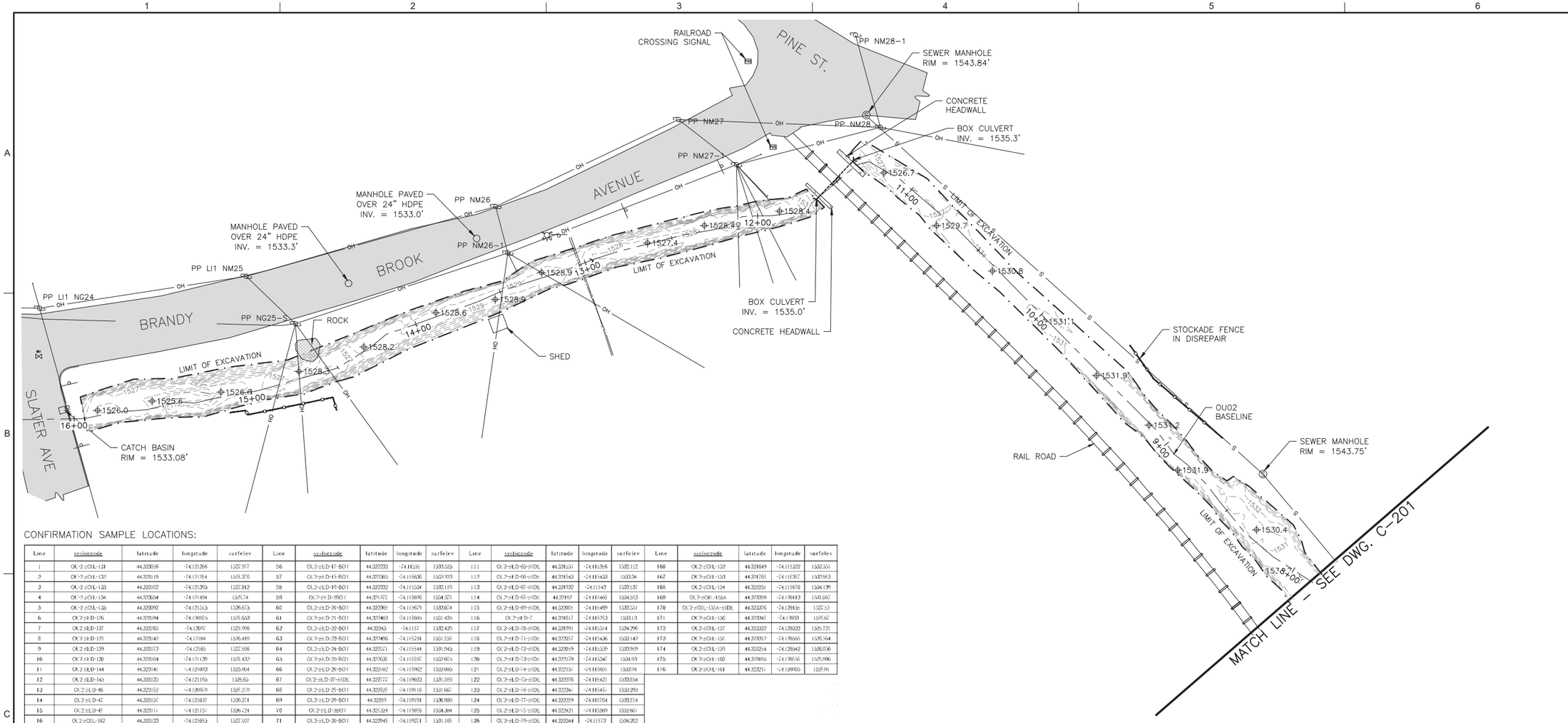
DWG	C-201
SHEET	3 OF 11



CONFIRMATION SAMPLE LOCATIONS:

Line	sysloccode	latitude	longitude	surfelev
1	OU-2-SOIL-131	44.320306	-74.121266	1527.977
2	OU-2-SOIL-132	44.320119	-74.121254	1528.376
3	OU-2-SOIL-133	44.320302	-74.121269	1527.012
4	OU-2-SOIL-134	44.320304	-74.121494	1525.74
5	OU-2-SOIL-135	44.320092	-74.121315	1526.615
6	OU-2-SED-126	44.320184	-74.120915	1526.633
7	OU-2-SED-127	44.320165	-74.12097	1525.998
8	OU-2-SED-128	44.320142	-74.12104	1526.419
9	OU-2-SED-129	44.320173	-74.12105	1527.506
10	OU-2-SED-130	44.320104	-74.121129	1526.432
11	OU-2-SED-144	44.320141	-74.121093	1525.904
12	OU-2-SED-145	44.320125	-74.121159	1525.65
13	OU-2-SED-46	44.320152	-74.120970	1526.239
14	OU-2-SED-47	44.320157	-74.121037	1526.271
15	OU-2-SED-48	44.320117	-74.121157	1526.424
16	OU-2-SOIL-162	44.320123	-74.121053	1527.107
17	OU-2-SOIL-163	44.320156	-74.121109	1526.294
18	OU-2-SED-0164-BOT	44.321679	-74.115325	1533.097
19	OU-2-SED-180T	44.321217	-74.115089	1534.672
20	OU-2-SED-16-BOT	44.321547	-74.11541	1531.311
21	OU-2-SED-100-SIDE	44.320029	-74.119699	1532.262
22	OU-2 SED 101 SIDE	44.320055	-74.119444	1532.357
23	OU-2-SED-102-SIDE	44.320136	-74.119493	1532.07
24	OU-2 SED 103 SIDE	44.320116	-74.119321	1531.75
25	OU-2-SED-104-SIDE	44.320195	-74.119275	1532.312
26	OU-2 SED 105 SIDE	44.320173	-74.11961	1532.965
27	OU-2-SED-106-SIDE	44.320231	-74.119659	1532.603
28	OU-2 SED 165 SIDE	44.320259	-74.119771	1532.301
29	OU-2-SED-109-SIDE	44.32337	-74.119517	1526.733
30	OU-2 SED 11 BOT	44.321925	-74.115447	1533.993
31	OU-2-SED-110-SIDE	44.323345	-74.119544	1527.611
32	OU-2-SED-111-SIDE	44.323407	-74.119577	1526.533
33	OU-2-SED-112-SIDE	44.323353	-74.119925	1526.796
34	OU-2-SED-113-SIDE	44.322443	-74.119993	1526.532
35	OU-2-SED-114-SIDE	44.323427	-74.119956	1525.326
36	OU-2-SED-115-SIDE	44.32336	-74.120102	1530.631
37	OU-2-SED-116-SIDE	44.323343	-74.120217	1525.342
38	OU-2-SED-117-SIDE	44.323366	-74.120219	1526.417
39	OU-2-SED-118	44.323302	-74.120403	1527.498
40	OU-2-SED-119	44.323335	-74.120405	1525.282
41	OU-2-SED-12-BOT	44.322002	-74.115455	1532.923
42	OU-2-SED-120	44.323291	-74.120476	1526.711
43	OU-2-SED-121	44.323329	-74.120508	1527.852
44	OU-2-SED-13-BOT	44.322052	-74.115499	1532.363
45	OU-2-SED-14-BOT	44.32917	-74.115444	1532.705
46	OU-2-SED-140BOT	44.321725	-74.115363	1525.543
47	OU-2-SED-143	44.323212	-74.120539	1526.475
48	OU-2-SED-15-BOT	44.322162	-74.115324	1533.542
49	OU-2-SED-15W-SIDE	44.323359	-74.120113	1531.007
50	OU-2-SED-16-BOT	44.322255	-74.115455	1532.369
51	OU-2-SED-165-BOT	44.321729	-74.11536	1533.361
52	OU-2-SED-166-SIDE	44.321635	-74.115497	1534.05
53	OU-2-SED-167-SIDE	44.321955	-74.115357	1534.037
54	OU-2-SED-168-SIDE	44.321729	-74.115392	1534.123
55	OU-2-SED-169-SIDE	44.32175	-74.115352	1534.213
56	OU-2-SED-17-BOT	44.322233	-74.11536	1533.333
57	OU-2-SED-170-SIDE	44.320365	-74.115636	1532.323
58	OU-2-SED-171-BOT	44.322332	-74.115334	1532.159
59	OU-2-SED-172-BOT	44.321755	-74.115695	1534.325
60	OU-2-SED-173-BOT	44.322366	-74.115679	1533.674
61	OU-2-SED-174-SIDE	44.320403	-74.115665	1531.435
62	OU-2-SED-175-SIDE	44.32243	-74.1157	1532.429
63	OU-2-SED-176-SIDE	44.320496	-74.115701	1531.535
64	OU-2-SED-177-SIDE	44.322571	-74.115544	1531.945
65	OU-2-SED-178-SIDE	44.320638	-74.115597	1532.665
66	OU-2-SED-179-SIDE	44.322402	-74.115962	1532.665
67	OU-2-SED-180-SIDE	44.322777	-74.116023	1531.559
68	OU-2-SED-181-SIDE	44.322525	-74.11916	1531.667
69	OU-2-SED-182-SIDE	44.32259	-74.119191	1530.909
70	OU-2-SED-183OT	44.321324	-74.115676	1534.394
71	OU-2-SED-184-SIDE	44.322945	-74.119271	1531.165
72	OU-2-SED-185-SIDE	44.322007	-74.11935	1531.025
73	OU-2-SED-186-SIDE	44.322068	-74.119425	1531.324
74	OU-2-SED-187-SIDE	44.323153	-74.119539	1529.902
75	OU-2-SED-188-SIDE	44.322044	-74.11967	1531.479
76	OU-2-SED-189-SIDE	44.323003	-74.119749	1530.635
77	OU-2 SED 19 SIDE	44.323359	-74.11953	1526.635
78	OU-2-SED-190-SIDE	44.323093	-74.119907	1526.433
79	OU-2 SED 191 SIDE	44.32344	-74.119953	1529.769
80	OU-2-SED-192-SIDE	44.321325	-74.115965	1533.635
81	OU-2 SED 193 SIDE	44.321391	-74.115152	1533.545
82	OU-2-SED-194-SIDE	44.323374	-74.120114	1529.194
83	OU-2 SED 195 SIDE	44.323363	-74.120134	1527.434
84	OU-2-SED-196-SIDE	44.323355	-74.120217	1525.745
85	OU-2 SED 197 SIDE	44.32332	-74.120402	1526.907
86	OU-2-SED-198-SIDE	44.323303	-74.120455	1526.259
87	OU-2-SED-199-SIDE	44.323273	-74.120622	1529.005
88	OU-2-SED-20-BOT	44.321547	-74.121205	1527.407
89	OU-2-SED-200-SIDE	44.323102	-74.121206	1527.407
90	OU-2-SED-201-SIDE	44.321394	-74.115132	1531.933
91	OU-2-SED-202-SIDE	44.321465	-74.115397	1533.453
92	OU-2-SED-203-SIDE	44.323074	-74.121403	1526.547
93	OU-2-SED-204-SIDE	44.323065	-74.121352	1526.363
94	OU-2-SED-205-SIDE	44.323033	-74.121628	1526.215
95	OU-2-SED-206-SIDE	44.321156	-74.117842	1533.947
96	OU-2-SED-207-SIDE	44.321153	-74.117943	1533.677
97	OU-2-SED-208-SIDE	44.321232	-74.117933	1533.612
98	OU-2-SED-209-SIDE	44.321256	-74.115855	1536.935
99	OU-2-SED-21-BOT	44.321256	-74.11501	1535.547
100	OU-2-SED-210-SIDE	44.321313	-74.115106	1535.06
101	OU-2-SED-211-SIDE	44.321336	-74.115699	1534.93
102	OU-2-SED-212-SIDE	44.321408	-74.115118	1535.175
103	OU-2-SED-213-SIDE	44.321342	-74.115249	1535.045
104	OU-2-SED-214-SIDE	44.321475	-74.115125	1536.31
105	OU-2-SED-215-SIDE	44.321345	-74.115223	1535.13
106	OU-2-SED-216-SIDE	44.321623	-74.115369	1535.101
107	OU-2-SED-217-SIDE	44.321625	-74.115265	1535.435
108	OU-2-SED-218-SIDE	44.3217	-74.115301	1535.533
109	OU-2-SED-219-SIDE	44.321715	-74.115306	1531.314
110	OU-2-SED-22-SIDE-WALL			0
111	OU-2-SED-220-SIDE	44.321531	-74.115396	1532.152
112	OU-2-SED-221-SIDE	44.321543	-74.115433	1533.34
113	OU-2-SED-222-SIDE	44.321932	-74.115143	1533.537
114	OU-2-SED-223-SIDE	44.32107	-74.115465	1534.553
115	OU-2-SED-224-SIDE	44.322605	-74.115499	1533.531
116	OU-2-SED-7	44.321617	-74.115253	1533.13
117	OU-2-SED-70-SIDE	44.321991	-74.115314	1534.296
118	OU-2-SED-71-SIDE	44.322057	-74.115436	1533.142
119	OU-2-SED-72-SIDE	44.322059	-74.115539	1533.919
120	OU-2-SED-73-SIDE	44.322179	-74.115547	1534.93
121	OU-2-SED-74-SIDE	44.322135	-74.115601	1533.94
122	OU-2-SED-75-SIDE	44.322276	-74.115421	1533.034
123	OU-2-SED-76-SIDE	44.322364	-74.115457	1533.293
124	OU-2-SED-77-SIDE	44.322259	-74.115704	1533.354
125	OU-2-SED-78-SIDE	44.322421	-74.115369	1532.907
126	OU-2-SED-79-SIDE	44.322344	-74.11573	1534.202
127	OU-2-SED-8BOT	44.321693	-74.115334	1529.256
128	OU-2-SED-80-SIDE	44.322454	-74.11565	1533.369
129	OU-2-SED-81-SIDE	44.322396	-74.115762	1534.942
130	OU-2-SED-82-SIDE	44.322267	-74.115712	1533.536
131	OU-2-SED-83-SIDE	44.322472	-74.115814	1533.67
132	OU-2-SED 84 SIDE	44.322294	-74.115773	1533.263
133	OU-2-SED-85-SIDE	44.322465	-74.115853	1533.435
134	OU-2-SED 86 SIDE	44.322655	-74.11564	1532.944
135	OU-2-SED-87-SIDE	44.322629	-74.115931	1533.057
136	OU-2-SED 88 SIDE	44.322722	-74.115936	1532.574
137	OU-2-SED-89-SIDE	44.322685	-74.116011	1533.313
138	OU-2 SED 98OT	44.321771	-74.11636	1529.714
139	OU-2-SED-90-SIDE	44.322759	-74.116003	1532.264
140	OU-2 SED 91 SIDE	44.322755	-74.11607	1532.139
141	OU-2-SED-92-SIDE	44.322534	-74.11591	1531.935
142	OU-2-SED-93-SIDE	44.322512	-74.116134	1532.43
143	OU-2-SED-94-SIDE	44.322694	-74.116166	1531.693
144	OU-2-SED-95-SIDE	44.322673	-74.116205	1531.957
145	OU-2-SED-96-SIDE	44.322662	-74.116255	1532.206
146	OU-2-SED-97-SIDE	44.322644	-74.116256	1532.645
147	OU-2-SED-98-SIDE	44.322615	-74.116332	1531.902
148	OU-2-SED-99-SIDE	44.322696	-74.116365	1532.324
149	OU_2-SOIL-122	44.323293	-74.120633	1529.441
150	OU_2-SOIL-123	44.32326	-74.120605	1529.696
151	OU_2-SOIL-124	44.323229	-74.120734	1529.694
152	OU_2-SOIL-125	44.323252	-74.120763	1529.933
153	OU_2-SOIL-134	44.323034	-74.121494	1525.74
154	OU_2-SOIL-135	44.323092	-74.121315	1526.615
155	OU_2-SOIL-136	44.323044	-74.121619	1526.579
156	OU_2-SOIL-137	44.32305	-74.12162	1526.417
157	OU_2-SOIL-138	44.321436	-74.115714	1535.074
158	OU_2-SOIL-139	44.321361	-74.115257	1535.364
159	OU_2-SOIL-141	44.323334	-74.120338	1526.896
160	OU_2-SOIL-146	44.321275	-74.115093	1535.263
161	OU_2-SOIL-147RO1	44.321366	-74.115165	1536.411
162	OU_2-SOIL-145	44.321432	-74.115139	1535.245
163	OU_2-SOIL-149	44.321433	-74.115231	1535.292
164	OU_2-SOIL-150	44.321524	-74.115245	1535.363
165	OU_2-SOIL-151	44.321609	-74.115314	1535.706
166	OU_2-SOIL-152	44.321649	-74.115322	1532.551
167	OU_2-SOIL-153	44.321765	-74.115367	1532.963
168	OU_2-SOIL-154	44.322231	-74.115676	1534.139
169	OU_2-SOIL-155A	44.323389	-74.120113	1531.007
170	OU_2-SOIL-155A-SIDE	44.323376	-74.120126	1527.53
171	OU_2-SOIL-156	44.323345	-74.12033	1525.67
172	OU_2-SOIL-157	44.323322	-74.120323	1525.721
173	OU_2-SOIL-158	44.323312	-74.120655	1525.564
174	OU_2-SOIL-159	44.323224	-74.120342	1526.036
175	OU_2-SOIL-160	44.323185	-74.120635	1525.996
176	OU_2-SOIL-161	44.323214	-74.120005	1525.91

0 15 30 60
SCALE IN FEET

NO.	DATE	DSGN	DR	CHK	APVD
1	3/31/20	MAP	BRT	MAP	APVD

RECORD DRAWING
REVISION

MAP BY APVD MJS 03/31/20

STATE OF NEW YORK LICENSED PROFESSIONAL ENGINEER

NEW YORK STATE OF OPPORTUNITY. Department of Environmental Conservation

REMEDIAL ACTION
SARANAC LAKE GAS CO., INC.
SARANAC LAKE, NEW YORK
NYSDEC SITE NUMBER - 516008

MACTEC Engineering and Geology, P.C.
P.O. Box 7050, 51 Commercial Street
Portland, Maine 04112-7050
(207) 775-5401

MACTEC

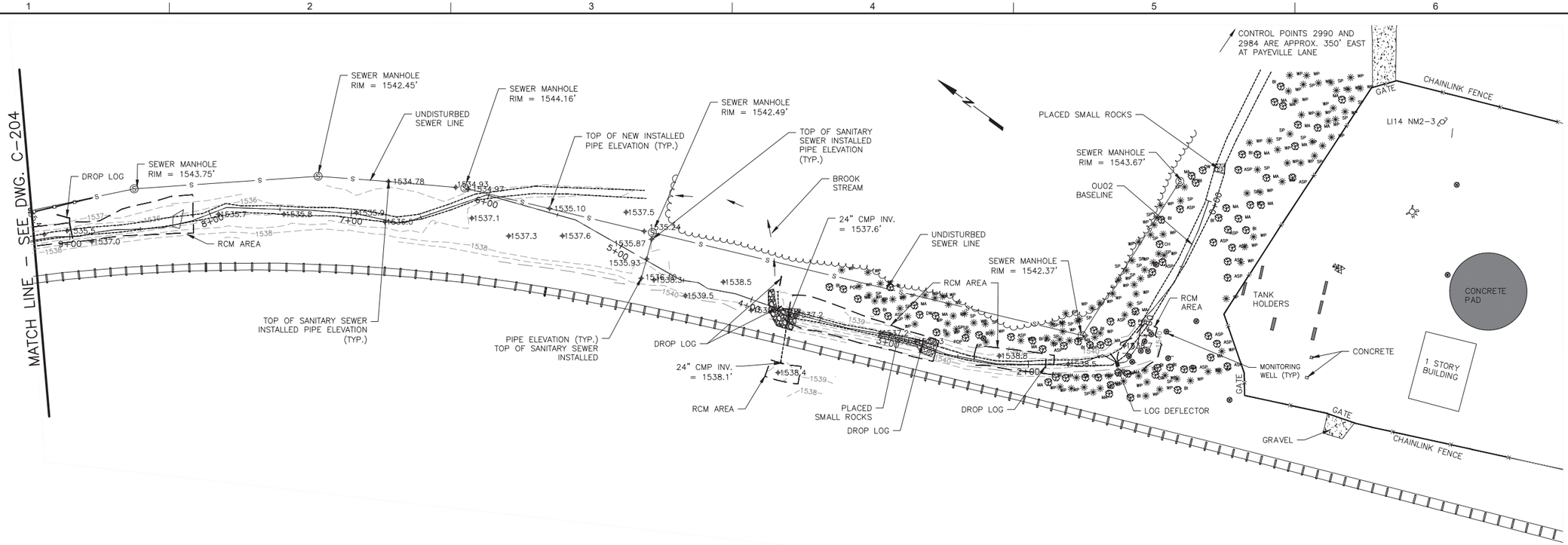
CIVIL

BOTTOM OF EXCAVATION
OU02

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	JAN 2020
PROJ	3611-16-1193
DWG	C-202
SHEET	4 OF 11



NO.	DATE	DSGN	DR	CHK	REVISION	APVD
1	3/31/20	MAP	MAP	BRT	RECORD DRAWING	MJS

NEW YORK STATE OF OPPORTUNITY. Department of Environmental Conservation

REMEDIAL ACTION
SARANAC LAKE GAS CO., INC.
SARANAC LAKE, NEW YORK
NYSDEC SITE NUMBER - 516008

MACTEC Engineering and Geology, P.C.
P.O. Box 7050, 51 Commercial Street
Portland, Maine 04112-7050
(207) 775-5401

MACTEC

CIVIL

PLAN AND BASELINE PROFILE
OU02

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	JAN 2020
PROJ	3611-16-1193
DWG	C-203
SHEET	5 OF 11

STATE OF NEW YORK LICENSED PROFESSIONAL ENGINEER
03/31/20

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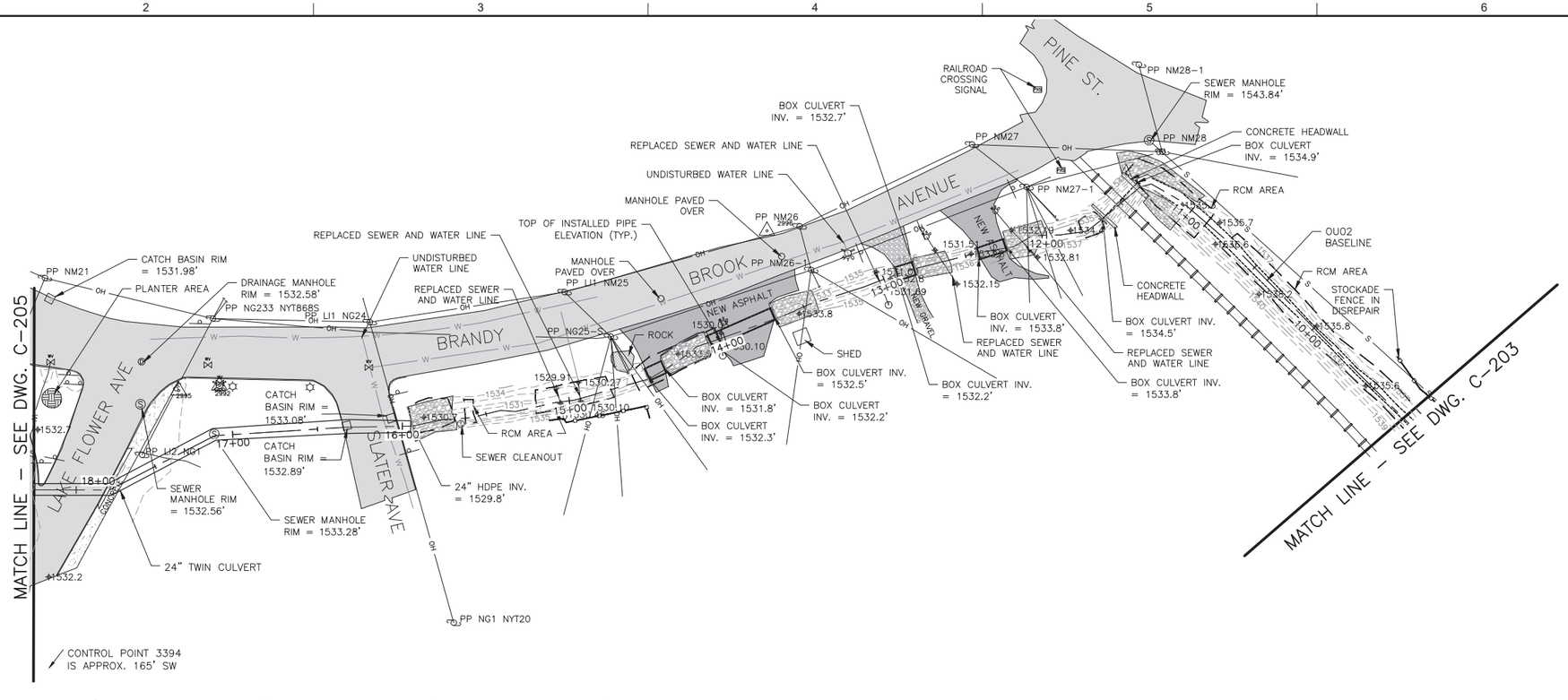

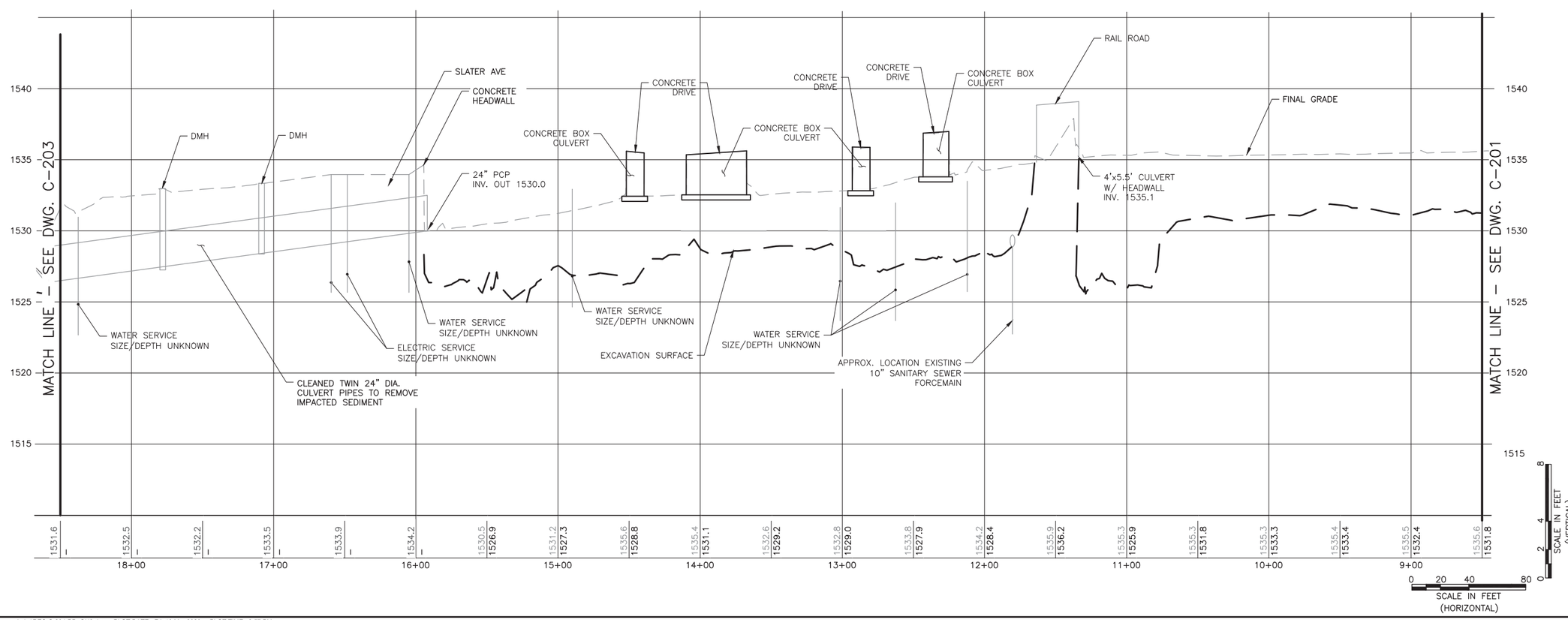

NO.	DATE	DSGN
1	3/31/20	MAP

RECORD DRAWING

REVISION	CHK	DR
MAP	MJS	MJS
BY	APVD	APVD
MAP	BRT	MAP

STATE OF NEW YORK LICENSED PROFESSIONAL ENGINEER — 03/31/20

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NEW YORK STATE Department of Environmental Conservation

REMEDIAL ACTION
SARANAC LAKE GAS CO., INC.
SARANAC LAKE, NEW YORK
NYSDEC SITE NUMBER - 516008

MACTEC Engineering and Geology, P.C.
P.O. Box 7050, 511 Congress Street
Portland, Maine 04112-7050
(207) 775-5401

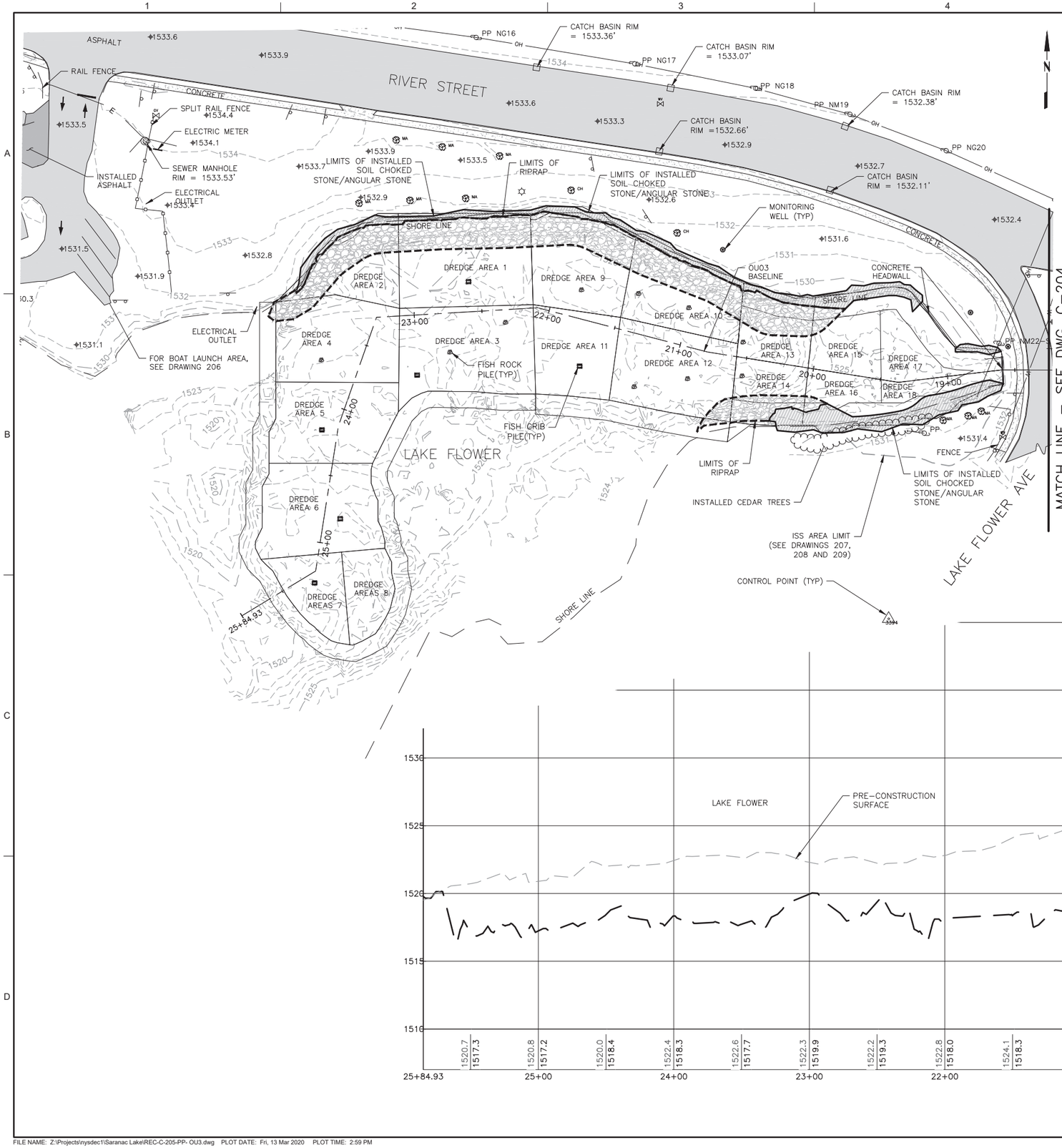
MACTEC

CIVIL

PLAN AND BASELINE PROFILE
OU02

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	JAN 2020
PROJ	3611-16-1193
DWG	C-204
SHEET	6 OF 11



CONFIRMATION SAMPLE LOCATIONS:

182	OU3-SED-1 COM	44.323122	-74.124219	1520.3426
183	OU3-SED-11	44.323122	-74.124219	1520.3426
184	OU3-SED-12	44.323184	-74.124241	1519.8338
185	OU3-SED-13	44.323196	-74.124045	1520.2219
186	OU3-SED-14	44.323105	-74.124034	1520.431
187	OU3-SED-10 COM	44.323057	-74.123571	1520.1731
188	OU3-SED-10-1	44.323057	-74.123571	1520.1731
189	OU3-SED-11 COM	44.322935	-74.12357	1518.3213
190	OU3-SED-12 COM	44.322921	-74.123651	1518.9209
191	OU3-SED-13 COM	44.322988	-74.12331	1518.0426
192	OU3-SED-13-1	44.322988	-74.12331	1518.0426
193	OU3-SED-14 COM	44.32295	-74.123323	1518.0412
194	OU3-SED-14-1	44.32295	-74.123323	1518.0412
195	OU3-SED-14-2	44.322935	-74.123233	1518.1339
196	OU3-SED-15-1	44.32293	-74.123116	1519.4233
197	OU3-SED-15-COM	44.32293	-74.123116	1519.4233
198	OU3-SED-15-COMP-DUP			0'
199	OU3-SED-16-1	44.322921	-74.123111	1519.3997
200	OU3-SED-16-COM	44.322921	-74.123111	1519.3997
201	OU3-SED-17-1	44.322955	-74.122934	1519.752
202	OU3-SED-17-2	44.323016	-74.122916	1519.444
203	OU3-SED-17-COM	44.322955	-74.122934	1519.752
204	OU3-SED-18-1	44.322935	-74.122941	1518.4304
205	OU3-SED-18-2	44.322933	-74.122904	1519.7386
206	OU3-SED-18-COM	44.322935	-74.122941	1518.4304
207	OU3-SED-2 COM			0'
208	OU3-SED-2 COMPOSITE	44.323138	-74.124499	1521.6327
209	OU3-SED-3 COM	44.322947	-74.124246	1518.071
210	OU3-SED-4 COM			0'
211	OU3-SED-4 COMPOSITE	44.322977	-74.124609	1519.8475
212	OU3-SED-9 COM	44.323113	-74.123888	1519.5943
213	OU3-SED-9-1	44.323113	-74.123888	1519.5943
214	OU3-SED-9-2	44.323202	-74.12388	1519.5342
215	OU3-SED5	44.322809	-74.124608	1518.2526
216	OU3-SED6	44.322628	-74.124628	1517.4143
217	OU3-SED7	44.322461	-74.124517	1518.1193
218	OU3-SED8	44.322451	-74.124446	1519.5404

NO.	DATE	DSGN	DR	CHK	APVD
1	3/31/20	MAP	MAP	BRT	MJS

RECORD DRAWING
REVISION

STATE OF NEW YORK LICENSED PROFESSIONAL ENGINEER
03/31/20

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NEW YORK STATE OF OPPORTUNITY. Department of Environmental Conservation

REMEDIAL ACTION
SARANAC LAKE GAS CO., INC.
SARANAC LAKE, NEW YORK
NYSDEC SITE NUMBER - 516008

MACTEC Engineering and Geology, P.C.
P.O. Box 7050, 51 Commercial Street
Portland, Maine 04112-7050
(207) 775-5401

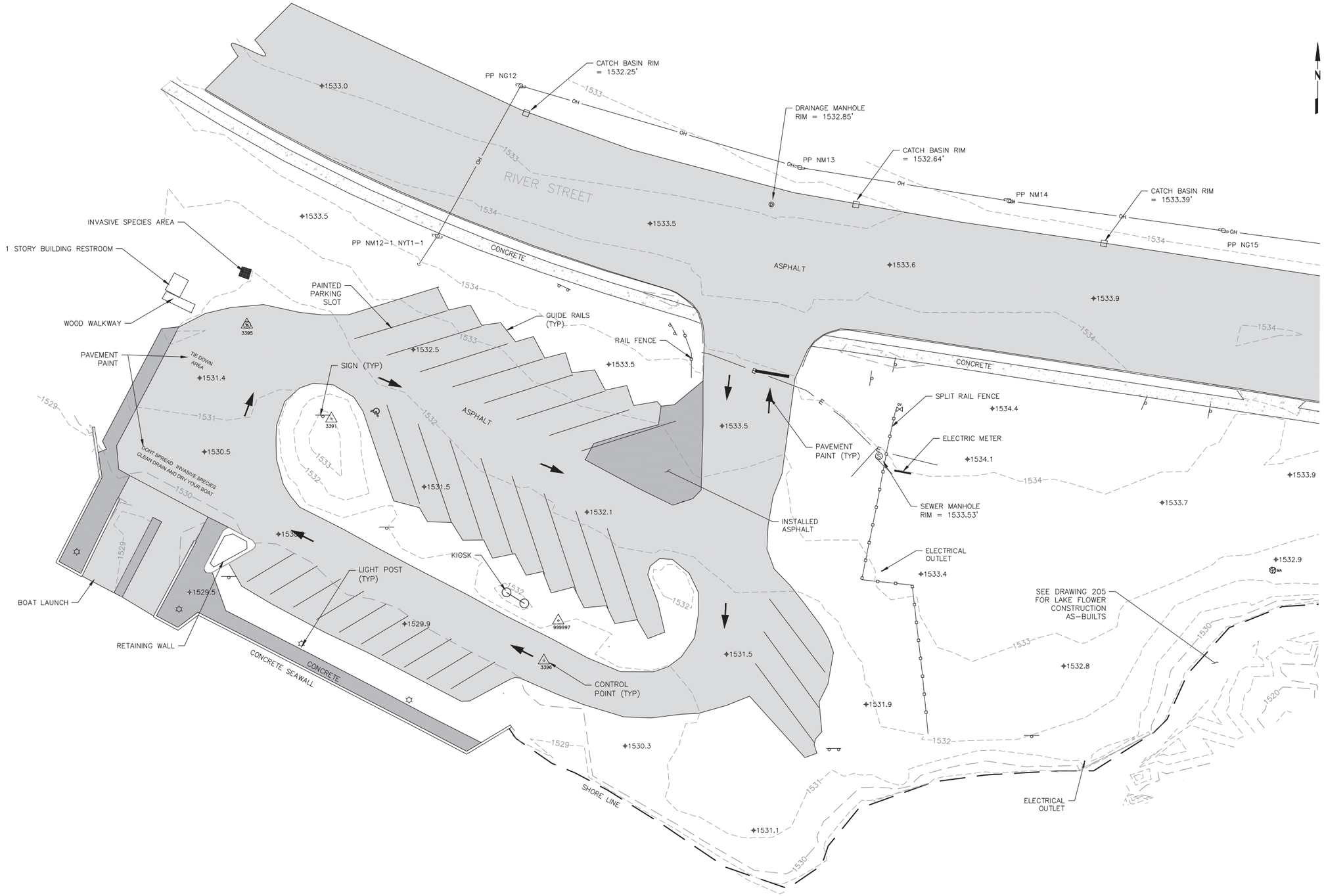
MACTEC

CIVIL

PLAN AND BASELINE PROFILE
OU03

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	JAN 2020
PROJ	3611-16-1193
DWG	C-205
SHEET	7 OF 11



NO.	DATE	DSGN	DR	CHK	APVD
1	3/31/20	MAP	BRT	MAP	MJS

RECORD DRAWING

REVISION

BY	APVD
MAP	MJS

03/31/20

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

REMEDIAL ACTION
SARANAC LAKE GAS CO., INC.
SARANAC LAKE, NEW YORK
NYSDEC SITE NUMBER - 516008

MACTEC Engineering and Geology, P.C.
P.O. Box 1512, 1 Governor Street
Portland, Maine 04112-7050
(207) 775-5401

MACTEC

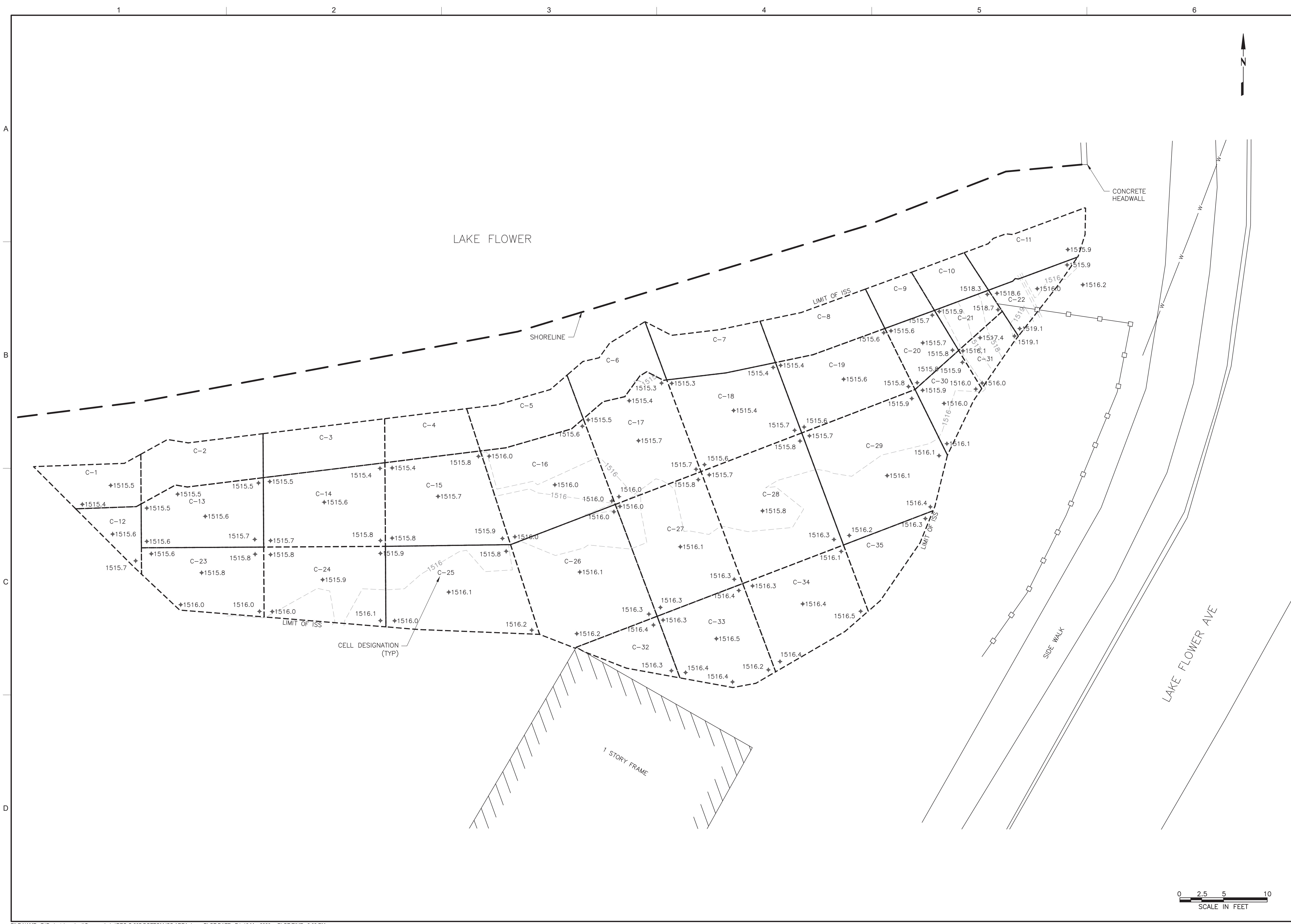
CIVIL

FINAL PLAN
BOAT LANCH

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	JAN 2020
PROJ	3611-16-1193
DWG	C-206
SHEET	8 OF 11



NO.	DATE	REVISION	DR	CHK	BY	APVD
1	3/31/20	RECORD DRAWING			MAP	MJS
DSGN		MAP		BRT	MAP	APVD MJS

03/31/20

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NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

REMEDIAL ACTION
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SARANAC LAKE, NEW YORK
NYSDEC SITE NUMBER - 516008

MACTEC

MACTEC Engineering and Geology, P.C.
P.O. Box 7050, 511 Congress Street
Portland, Maine 04112-7050
(207) 775-5401

CIVIL

BOTTOM OF ISS AREA

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	JAN 2020
PROJ	3611-16-1193
DWG	C-207
SHEET	9 OF 11

FILE NAME: Z:\Projects\nysdec1\Saranac Lake\REC-C-207-BOTTOM ISS AREA.dwg PLOT DATE: Fri, 13 Mar 2020 PLOT TIME: 3:02 PM

LAKE FLOWER

SHORELINE

LIMIT OF SAND WEDGE

LIMIT OF ISS

CONCRETE HEADWALL

CELL DESIGNATION (TYP)

1 STORY FRAME

FENCE

SIDE WALK

LAKE F

N

0 2.5 5 10
SCALE IN FEET

NO.	DATE	DSGN	DR	CHK	APVD
1	3/31/20	MAP	MAP	BRT	MJS

RECORD DRAWING

REVISION

	BY	APVD
MAP	MJS	MJS

STATE OF NEW YORK LICENSED PROFESSIONAL ENGINEER — 03/31/20

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Department of Environmental Conservation

REMEDIAL ACTION
SARANAC LAKE GAS CO., INC.
SARANAC LAKE, NEW YORK
NYSDEC SITE NUMBER - 516008

MACTEC Engineering and Geology, P.C.
P.O. Box 1026, 1 Governor Street
Portland, Maine 04112-7050
(207) 775-5401

MACTEC

CIVIL

TOP OF MONOLITH/SAND WEDGE SURVEY ISS AREA

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	JAN 2020
PROJ	3611-16-1193
DWG	C-208
SHEET	10 OF 11

FILE NAME: Z:\Projects\nysdec1\Saranac Lake\REC-C-208-TOP OF MONOLTH- ISS AREA.dwg PLOT DATE: Fri, 13 Mar 2020 PLOT TIME: 3:04 PM

LAKE FLOWER

SHORELINE

CONCRETE HEADWALL

LIMIT OF ISS

CELL DESIGNATION (TYP)

1 STORY FRAME

FENCE

SIDE WALK

LAKE FLOWER AVE

N

SCALE IN FEET 0 2.5 5 10

NO.	DATE	DSGN	DR	CHK
1	3/31/20	MAP	MAP	BRT

RECORD DRAWING

REVISION

BY MAP APVD MJS

APVD MAP MJS

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STATE OF NEW YORK LICENSED PROFESSIONAL ENGINEER — MARK J. SCHLICHER — 03/31/20

NEW YORK STATE OF OPPORTUNITY. Department of Environmental Conservation

REMEDIAL ACTION
SARANAC LAKE GAS CO., INC.
SARANAC LAKE, NEW YORK
NYSDEC SITE NUMBER - 516008

MACTEC Engineering and Geology, P.C.
P.O. Box 7050, 1 Courtyard Square
Portland, Maine 04112-7050
(207) 775-5401

MACTEC

CIVIL

FINAL GRADE OF ISS AREA

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"

DATE	JAN 2020
PROJ	3611-16-1193
DWG	C-209
SHEET	11 OF 11

ATTACHMENT 2

LOCATION MAP
NOT TO SCALE

LEGEND

- Boundary Line
- Adjoiner Line
- Gravel Road
- Overhead wires
- Chainlink Fenceline
- Adjoiner Line
- Easement Area
- ISS Limits Final Cap
- Found iron pipe/rebar
- Set 5/8" capped rebar
- Calculated corner

TREE KEY

- Birch
- Cherry
- Hemlock
- Maple
- Pine
- Spruce

GREGORY L. PEACOCK
Reputed Owner
L. 1366 pg. 73
Tax parcel 32.215-6-2

GREGORY L. PEACOCK
Reputed Owner
L. 1028 pg. 167
Tax parcel 32.215-6-3

GEORGE C. HUTTIG
Reputed Owner
L. 1364 pg. 275
Tax parcel 32.232-1-1

DEBORAH FOX
AUBREY FOX
Reputed Owner
L. 1920 pg. 128
Tax parcel 32.232-1-2

RANDOLPH SMITH. Jr.
LYNN LOUISE SMITH
Reputed Owner
L. 721 pg. 87
Tax parcel 32.232-1-5

Found 1 1/2" iron pipe 0.2' above grade, leaning Northerly

N 81°01'20" W 613.38'

Found 1" iron pipe 0.1' above grade, leaning Westerly

N 10°03'40" W 32.65'

N 81°06'30" W 236.41'

piezometer elev @ top=1548.12'

GRAVEL ROAD

ESSEX COUNTY
Reputed Owner
L. 1413 pg. 194
Tax parcel 32.232-1-15

JANICE M. GAUTHIER
Reputed Owner
L. 644 pg. 112
Tax parcel 32.232-1-6

ROBERT OHMANN
MARY L. OHMANN
Reputed Owner
L. 656 pg. 120
Tax parcel 32.232-1-7

STEVEN P. SCHMIDT
MONICA D. SCHMIDT
Reputed Owner
L. 1972 pg. 210
Tax parcel 32.232-1-8

GEORGE E. PAYE III
Reputed Owner
L. 1794 pg. 120
Tax parcel 32.232-1-9

GEORGE E. PAYE III
Reputed Owner
L. 1794 pg. 120
Tax parcel 32.232-1-10

GEORGE E. PAYE III
Reputed Owner
L. 1794 pg. 120
Tax parcel 32.232-1-16

COUNTY OF ESSEX
COUNTY OF FRANKLIN
Reputed Owner
L. 1143 pg. 217
Tax parcel 32.232-1-13

SARANAC LAKE GAS CO INC.
Reputed Owner
L. 141 pg. 392
Tax parcel 32.231-1-11

STATE OF NEW YORK
Reputed Owner
L. 1951 pg. 17
Tax parcel 32.247-4-1.2

PAYEVILLE ROAD

S 22°07'45" E 357.19' (former railroad bed)

S 17°58'50" E 383.06' Rod 1666.19 (Tie Line) 382.27'

N 08°47'30" W 64.70'

153.06'

64.54'

297.26'

426.80'

215.75'

N 82°04'15" E

Found 3/4" iron pipe 0.5' above grade, leaning

Found 3/4" iron pipe 0.3' above grade

Capped rebar AEDA

Capped rebar AEDA

monitoring well elev @ top=1547.42'

monitoring well elev @ top=1547.33'

monitoring well elev @ top=1546.95'

monitoring well elev @ top=1544.09'

piezometer elev @ top=1546.87'

brook

centerline of brook

centerline

clump

chainlink fenceline

edge of topsoil

edge of gravel

grass trail

gravel trail

asphalt drive

gravel drive

asphalt surface

storage canopy

Encroachments by Paye

Bldg

CMP

CP

1540 1541 1542 1543 1544 1545 1546 1547 1548 1549 1550

40 0 40 80 120

1 Inch = 40 Feet

Contour Interval: 1 Foot
Horizontal Datum: NAD 83
Vertical Datum: NAVD 88

EAST ZONE
N
N.Y.S. GRID NORTH

MAP REFERENCES

1. See Map entitled "Map Showing Survey of Property for Adirondack Bottled Gas Corp." prepared by Magurk & Odone, PC, dated June 23, 1980.

NOTES

1. This survey was prepared without the benefit of an updated Abstract of Title and is subject to whatever facts an updated Abstract of Title may show.

ONLY COPIES FROM THE ORIGINAL OF THIS SURVEY MARKED WITH AN ORIGINAL OF THE LAND SURVEYOR'S EMBOSSED SEAL SHALL BE CONSIDERED TO BE VALID TRUE COPIES.

Certifications, if any, indicated hereon signify that this survey was prepared in accordance with the existing Code of Practice for Land Surveys adopted by the New York State Association of Professional Land Surveyors. Said certifications shall run only to the person for whom the survey is prepared, and on his behalf to the title company, governmental agency and lending institution listed hereon, and to the assignees of the lending institution. Certifications are not transferable to any additional institutions or subsequent owners.

GEOMATICS
land surveying, pc
STACEY L. ALLOTT, L.S.
P.O. BOX 1277 SARANAC LAKE, NY
518-891-6218 Phone
geomaticslspc@gmail.com www.geomatics.pro

MAP OF SURVEY showing Final Conditions Saranac Lake Gas Company Remediation

PREPARED FOR

D.A. COLLINS ENVIRONMENTAL SERVICES, LLC

SITUATE IN LOT 12, TOWNSHIP 11, OLD MILITARY TRACT, VILLAGE OF SARANAC LAKE, TOWN OF NORTH ELBA, COUNTY OF ESSEX AND STATE OF NEW YORK.

REVISIONS / DATE / BY	
COPYRIGHT	2021
CHECKED BY	SLA
DRAWN BY	REL
DATE	SURVEY 06/08/22 MAP 11/03/22
SCALE	IN./FT. 1"=40' RATIO 1:480
TAX MAP NO.	32.231-1-11
MAP NO.	21007 Sheet 1 of 6

CADD File: 21007 SH1Of6 final conditions.dwg

LOCATION MAP
NOT TO SCALE

LEGEND

- Boundary Line
- Adjoiner Line
- Gravel Road
- Overhead wires
- Chainlink Fenceline
- Adjoiner Line
- Easement Area
- ISS Limits
- Final Cap
- Found iron pipe/rebar
- Set 5/8" capped rebar
- Calculated corner

GREGORY L. PEACOCK
Reputed Owner
L. 1366 pg. 73
Tax parcel 32.215-6-2

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L. 1028 pg. 187
Tax parcel 32.215-6-3

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Tax parcel 32.232-1-1

DEBORAH FOX
AUBREY FOX
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Tax parcel 32.232-1-2

RANDOLPH SMITH. Jr.
LYNN LOUISE SMITH
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Tax parcel 32.232-1-5

Found 1 1/2" iron pipe 0.2' above grade, leaning Northerly

Found 1" iron pipe 0.1' above grade, leaning Westerly

ESSEX COUNTY
Reputed Owner
L. 1413 pg. 194
Tax parcel 32.232-1-15

Found 3/4" iron pipe 0.5' above grade, leaning

JANICE M. GAUTHIER
Reputed Owner
L. 644 pg. 112
Tax parcel 32.232-1-6

ROBERT OHMANN
MARY L. OHMANN
Reputed Owner
L. 656 pg. 120
Tax parcel 32.232-1-7

STEVEN P. SCHMIDT
MONICA D. SCHMIDT
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L. 1972 pg. 210
Tax parcel 32.232-1-8

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Reputed Owner
L. 1794 pg. 120
Tax parcel 32.232-1-9

GEORGE E. PAYE III
Reputed Owner
L. 1794 pg. 120
Tax parcel 32.232-1-10

GEORGE E. PAYE III
Reputed Owner
L. 1794 pg. 120
Tax parcel 32.232-1-16

Capped rebar AEDA

PAYEVILLE ROAD

STATE OF NEW YORK
Reputed Owner
L. 1951 pg. 17
Tax parcel 32.247-4-1.2

centerline of brook

edge of gravel

edge of topsoil

SARANAC LAKE GAS CO INC.
Reputed Owner
L. 141 pg. 392
Tax parcel 32.231-1-11

Capped rebar AEDA

Found 3/4" iron pipe 0.3' above grade

COUNTY OF ESSEX
COUNTY OF FRANKLIN
Reputed Owner
L. 1143 pg. 217
Tax parcel 32.232-1-13

N
N.Y.S. GRID NORTH
EAST ZONE

40 0 40 80 120
1 Inch = 40 Feet

Horizontal Datum: NAD 83
Vertical Datum: NAVD 88

ONLY COPIES FROM THE ORIGINAL OF THIS SURVEY MARKED WITH AN ORIGINAL OF THE LAND SURVEYOR'S EMBOSSED SEAL SHALL BE CONSIDERED TO BE VALID TRUE COPIES.

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GEOMATICS
land surveying, pc
STACEY L. ALLOTT, L.S.
P.O. BOX 1277 SARANAC LAKE, NY
518-891-6218 Phone
geomaticslspc@gmail.com www.geomatics.pro

MAP OF SURVEY showing Final Cap Limits Location
Saranac Lake Gas Company Remediation
PREPARED FOR
D.A. COLLINS ENVIRONMENTAL SERVICES, LLC
SITUATE IN LOT 12, TOWNSHIP 11, OLD MILITARY TRACT, VILLAGE OF SARANAC LAKE, TOWN OF NORTH ELBA, COUNTY OF ESSEX AND STATE OF NEW YORK.

REVISIONS / DATE / BY	
COPYRIGHT	2021
CHECKED BY	SLA
DRAWN BY	REL
DATE	SURVEY 06/08/22 MAP 11/03/22
SCALE	IN./FT. 1"=40' RATIO 1:480
TAX MAP NO.	32.231-1-11
MAP NO.	21007 SHEET 2 of 6

CADD File: 21007 SH2of6 final cap.dwg

LOCATION MAP
NOT TO SCALE

LEGEND

- Boundary Line
- Adjoiner Line
- Gravel Road
- Overhead wires
- Chainlink Fenceline
- Adjoiner Line
- Easement Area
- ISS Limits Final Cap
- Found iron pipe/rebar
- Set 5/8" capped rebar
- Calculated corner

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Reputed Owner
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Tax parcel 32.215-6-2

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GRAVEL ROAD

ESSEX COUNTY
Reputed Owner
L. 1413 pg. 194
Tax parcel 32.232-1-15

JANICE M. GAUTHIER
Reputed Owner
L. 644 pg. 112
Tax parcel 32.232-1-6

Found 3/4" iron pipe 0.5' above grade, leaning

ROBERT OHMANN
MARY L. OHMANN
Reputed Owner
L. 656 pg. 120
Tax parcel 32.232-1-7

STEVEN P. SCHMIDT
MONICA D. SCHMIDT
Reputed Owner
L. 1972 pg. 210
Tax parcel 32.232-1-8

GEORGE E. PAYE III
Reputed Owner
L. 1794 pg. 120
Tax parcel 32.232-1-9

GEORGE E. PAYE III
Reputed Owner
L. 1794 pg. 120
Tax parcel 32.232-1-10

GEORGE E. PAYE III
Reputed Owner
L. 1794 pg. 120
Tax parcel 32.232-1-16

Capped rebar AEDA

PAYEVILLE ROAD

centerline of brook

centerline of swale

12" CMP

edge of gravel

gravel trail

final ISS limits

1543

1544

edge of topsoil

STATE OF NEW YORK
Reputed Owner
L. 1951 pg. 17
Tax parcel 32.247-4-1.2

SARANAC LAKE GAS CO INC.
Reputed Owner
L. 141 pg. 392
Tax parcel 32.231-1-11

COUNTY OF ESSEX
COUNTY OF FRANKLIN
Reputed Owner
L. 1143 pg. 217
Tax parcel 32.232-1-13

Capped rebar AEDA

Found 3/4" iron pipe 0.3' above grade

EAST ZONE
N
N.Y.S. GRID NORTH

40 0 40 80 120
1 Inch = 40 Feet

Contour Interval: 1 Foot
Horizontal Datum: NAD 83
Vertical Datum: NAVD 88

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land surveying, pc
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P.O. BOX 1277 SARANAC LAKE, NY
518-891-6218 Phone
geomaticalspc@gmail.com www.geomatics.pro

MAP OF SURVEY showing Final ISS Limits Location
Saranac Lake Gas Company Remediation
PREPARED FOR
D.A. COLLINS ENVIRONMENTAL SERVICES, LLC
SITUATE IN LOT 12, TOWNSHIP 11, OLD MILITARY TRACT, VILLAGE OF SARANAC LAKE, TOWN OF NORTH ELBA, COUNTY OF ESSEX AND STATE OF NEW YORK.

REVISIONS / DATE / BY	
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DATE	SURVEY 06/08/22 MAP 11/03/22
SCALE	IN./FT. 1"=40' RATIO 1:480
TAX MAP NO.	32.231-1-11
MAP NO.	21007 Sheet 3 of 6

CADD File: 21007 SH3of6 ISS.dwg

LOCATION MAP
NOT TO SCALE

LEGEND

Boundary Line	
Adjoiner Line	
Gravel Road	
Overhead wires	
Chainlink Fenceline	
Adjoiner Line	
Easement Area	
ISS Limits	
Final Cap	
Found iron pipe/rebar	●
Set 5/8" capped rebar	⊕
Calculated corner	○

GREGORY L. PEACOCK
Reputed Owner
L. 1366 pg. 73
Tax parcel 32.215-6-2

GREGORY L. PEACOCK
Reputed Owner
L. 1028 pg. 187
Tax parcel 32.215-6-3

GEORGE C. HUTTIG
Reputed Owner
L. 1364 pg. 275
Tax parcel 32.232-1-1

DEBORAH FOX
AUBREY FOX
Reputed Owner
L. 1920 pg. 128
Tax parcel 32.232-1-2

RANDOLPH SMITH. Jr.
LYNN LOUISE SMITH
Reputed Owner
L. 721 pg. 87
Tax parcel 32.232-1-5

Found 1 1/2" iron pipe 0.2' above grade, leaning Northerly

Found 1" iron pipe 0.1' above grade, leaning Westerly

GRAVEL ROAD

ESSEX COUNTY
Reputed Owner
L. 1413 pg. 194
Tax parcel 32.232-1-15

Found 3/4" iron pipe 0.5' above grade, leaning

JANICE M. GAUTHIER
Reputed Owner
L. 644 pg. 112
Tax parcel 32.232-1-6

ROBERT OHMANN
MARY L. OHMANN
Reputed Owner
L. 656 pg. 120
Tax parcel 32.232-1-7

STEVEN P. SCHMIDT
MONICA D. SCHMIDT
Reputed Owner
L. 1972 pg. 210
Tax parcel 32.232-1-8

GEORGE E. PAYE III
Reputed Owner
L. 1794 pg. 120
Tax parcel 32.232-1-9

GEORGE E. PAYE III
Reputed Owner
L. 1794 pg. 120
Tax parcel 32.232-1-10

GEORGE E. PAYE III
Reputed Owner
L. 1794 pg. 120
Tax parcel 32.232-1-16

Capped rebar AEDA

PAYEVILLE ROAD

centerline of brook

centerline of swale

12" CMP

EXCAVATION AREA 2

1533.65 1530.44 1531.24 1530.58 1531.59 1532.04 1532.67 1533.20 1534.26 1533.46 1533.92 1533.37 1533.79 1533.014 1534.77 1532.58 1533.27 1533.73 1533.45 1534.304 1534.104 1534.07 1532.714 1534.17 1532.38 1532.179 1535.16 1531.62 1531.40 1531.65 1532.08 1532.58 1532.14 1532.82 1532.79

gravel trail

edge of gravel trail

ISS Limits

ISS Limits

RxR EXCAVATION AREA 1

STATE OF NEW YORK
Reputed Owner
L. 1951 pg. 17
Tax parcel 32.247-4-1.2

SARANAC LAKE GAS CO INC.
Reputed Owner
L. 141 pg. 392
Tax parcel 32.231-1-11

Capped rebar AEDA

Found 3/4" iron pipe 0.3' above grade

COUNTY OF ESSEX
COUNTY OF FRANKLIN
Reputed Owner
L. 1143 pg. 217
Tax parcel 32.232-1-13

gravel trail

CP

40 0 40 80 120
1 Inch = 40 Feet

Horizontal Datum: NAD 83
Vertical Datum: NAVD 88

EAST ZONE
N
N.Y.S. GRID NORTH

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land surveying, pc
STACEY L. ALLOTT, L.S.
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518-891-6218 Phone
geomaticslspc@gmail.com www.geomatics.pro

MAP OF SURVEY showing Excavation Limits Location
Saranac Lake Gas Company Remediation
PREPARED FOR
D.A. COLLINS ENVIRONMENTAL SERVICES, LLC
SITUATE IN LOT 12, TOWNSHIP 11, OLD MILITARY TRACT, VILLAGE OF SARANAC LAKE, TOWN OF NORTH ELBA, COUNTY OF ESSEX AND STATE OF NEW YORK.

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SCALE	IN./FT. 1"=40' RATIO 1:480
TAX MAP NO.	32.231-1-11
MAP NO.	21007 Sheet 4 of 6

CADD File: 21007 SH4of6 Excavation Limits.dwg

LOCATION MAP
NOT TO SCALE

LEGEND

Boundary Line	
Adjoiner Line	
Gravel Road	
Overhead wires	
Chainlink Fenceline	
Adjoiner Line	
Easement Area	
ISS Limits	
Final Cap	
Found iron pipe/rebar	●
Set 5/8" capped rebar	⊕
Calculated corner	○

GREGORY L. PEACOCK
Reputed Owner
L. 1366 pg. 73
Tax parcel 32.215-6-2

GREGORY L. PEACOCK
Reputed Owner
L. 1028 pg. 187
Tax parcel 32.215-6-3

GEORGE C. HUTTIG
Reputed Owner
L. 1364 pg. 275
Tax parcel 32.232-1-1

DEBORAH FOX
AUBREY FOX
Reputed Owner
L. 1920 pg. 128
Tax parcel 32.232-1-2

RANDOLPH SMITH. Jr.
LYNN LOUISE SMITH
Reputed Owner
L. 721 pg. 87
Tax parcel 32.232-1-5

Found 1 1/2" iron pipe 0.2' above grade, leaning Northerly

Found 1" iron pipe 0.1' above grade, leaning Westerly

GRAVEL ROAD

ESSEX COUNTY
Reputed Owner
L. 1413 pg. 194
Tax parcel 32.232-1-15

JANICE M. GAUTHIER
Reputed Owner
L. 644 pg. 112
Tax parcel 32.232-1-6

Found 3/4" iron pipe 0.5' above grade, leaning

ROBERT OHMANN
MARY L. OHMANN
Reputed Owner
L. 656 pg. 120
Tax parcel 32.232-1-7

STEVEN P. SCHMIDT
MONICA D. SCHMIDT
Reputed Owner
L. 1972 pg. 210
Tax parcel 32.232-1-8

GEORGE E. PAYE III
Reputed Owner
L. 1794 pg. 120
Tax parcel 32.232-1-9

GEORGE E. PAYE III
Reputed Owner
L. 1794 pg. 120
Tax parcel 32.232-1-10

GEORGE E. PAYE III
Reputed Owner
L. 1794 pg. 120
Tax parcel 32.232-1-16

Capped rebar AEDA

PAYEVILLE ROAD

STATE OF NEW YORK
Reputed Owner
L. 1951 pg. 17
Tax parcel 32.247-4-1.2

SARANAC LAKE GAS CO INC.
Reputed Owner
L. 141 pg. 392
Tax parcel 32.231-1-11

COUNTY OF ESSEX
COUNTY OF FRANKLIN
Reputed Owner
L. 1143 pg. 217
Tax parcel 32.232-1-13

Capped rebar AEDA

Found 3/4" iron pipe 0.3' above grade

centerline of brook
centerline of swale
chainlink fenceline
edge of gravel
ISS Limits
gravel trail

EAST ZONE
N
N.Y.S. GRID NORTH

40 0 40 80 120
1 Inch = 40 Feet

Horizontal Datum: NAD 83
Vertical Datum: NAVD 88

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518-891-6218 Phone
geomaticalspc@gmail.com www.geomatics.pro

MAP OF SURVEY showing Fenceline Location
Saranac Lake Gas Company Remediation
PREPARED FOR
D.A. COLLINS ENVIRONMENTAL SERVICES, LLC
SITUATE IN LOT 12, TOWNSHIP 11, OLD MILITARY TRACT, VILLAGE OF SARANAC LAKE, TOWN OF NORTH ELBA, COUNTY OF ESSEX AND STATE OF NEW YORK.

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TAX MAP NO.	32.231-1-11
MAP NO.	21007 Sheet 5 of 6

CADD File: 21007 SH5of6 fenceline.dwg

LOCATION MAP
NOT TO SCALE

LEGEND

Boundary Line	
Adjoiner Line	
Gravel Road	
Overhead wires	
Chainlink Fenceline	
Adjoiner Line	
Easement Area	
ISS Limits	
Final Cap	
Found iron pipe/rebar	●
Set 5/8" capped rebar	⊕
Calculated corner	○

GREGORY L. PEACOCK
Reputed Owner
L. 1366 pg. 73
Tax parcel 32.215-6-2

GREGORY L. PEACOCK
Reputed Owner
L. 1028 pg. 187
Tax parcel 32.215-6-3

GEORGE C. HUTTIG
Reputed Owner
L. 1364 pg. 275
Tax parcel 32.232-1-1

DEBORAH FOX
AUBREY FOX
Reputed Owner
L. 1920 pg. 128
Tax parcel 32.232-1-2

RANDOLPH SMITH. Jr.
LYNN LOUISE SMITH
Reputed Owner
L. 721 pg. 87
Tax parcel 32.232-1-5

Found 1 1/2" iron pipe 0.2' above grade, leaning Northerly

Found 1" iron pipe 0.1' above grade, leaning Westerly

PZ-PV1
piezometer
elev @ top=1548.12'

GRAVEL ROAD

ESSEX COUNTY
Reputed Owner
L. 1413 pg. 194
Tax parcel 32.232-1-15

centerline of brook

centerline of swale

12" CMP

MW-106R
monitoring well
elev @ top=1544.09'

edge of gravel

Found 3/4" iron pipe 0.5' above grade, leaning

JANICE M. GAUTHIER
Reputed Owner
L. 644 pg. 112
Tax parcel 32.232-1-6

ROBERT OHMANN
MARY L. OHMANN
Reputed Owner
L. 656 pg. 120
Tax parcel 32.232-1-7

MW-108R
monitoring well
elev @ top=1547.42'

STEVEN P. SCHMIDT
MONICA D. SCHMIDT
Reputed Owner
L. 1972 pg. 210
Tax parcel 32.232-1-8

PZ-PV2
piezometer
elev @ top=1546.87'

PAYEVILLE ROAD

GEORGE E. PAYE III
Reputed Owner
L. 1794 pg. 120
Tax parcel 32.232-1-9

GEORGE E. PAYE III
Reputed Owner
L. 1794 pg. 120
Tax parcel 32.232-1-10

MW-110R
monitoring well
elev @ top=1547.33'

STATE OF NEW YORK
Reputed Owner
L. 1951 pg. 17
Tax parcel 32.247-4-1.2

SARANAC LAKE GAS CO INC.
Reputed Owner
L. 141 pg. 392
Tax parcel 32.231-1-11

GEORGE E. PAYE III
Reputed Owner
L. 1794 pg. 120
Tax parcel 32.232-1-16

Capped rebar AEDA

MW-204D
monitoring well
elev @ top=1546.95'

Capped rebar AEDA

Found 3/4" iron pipe 0.3' above grade

COUNTY OF ESSEX
COUNTY OF FRANKLIN
Reputed Owner
L. 1143 pg. 217
Tax parcel 32.232-1-13

gravel trail

EAST ZONE
N
N.Y.S. GRID NORTH

40 0 40 80 120
1 Inch = 40 Feet

Horizontal Datum: NAD 83
Vertical Datum: NAVD 88

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geomaticalspc@gmail.com www.geomatics.pro

MAP OF SURVEY showing Monitoring Wells Locations
Saranac Lake Gas Company Remediation
PREPARED FOR
D.A. COLLINS ENVIRONMENTAL SERVICES, LLC
SITUATE IN LOT 12, TOWNSHIP 11, OLD MILITARY TRACT, VILLAGE OF SARANAC LAKE, TOWN OF NORTH ELBA, COUNTY OF ESSEX AND STATE OF NEW YORK.

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DRAWN BY	REL
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SCALE	IN./FT. 1"=40' RATIO 1:480
TAX MAP NO.	32.231-1-11
MAP NO.	21007 Sheet 6 of 6

CADD File: 21007 SH6of6 mon wells.dwg

Appendix B

Figures

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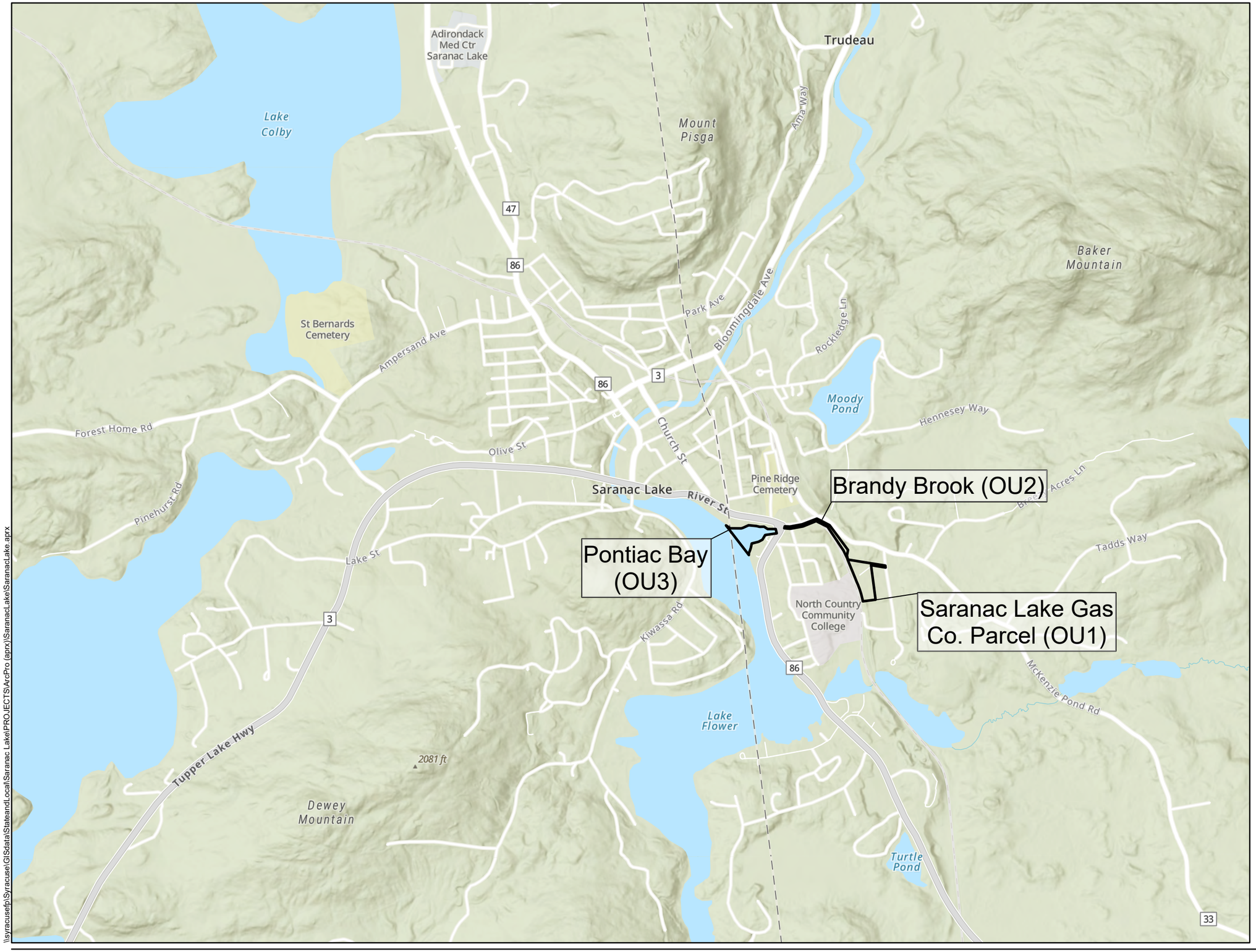
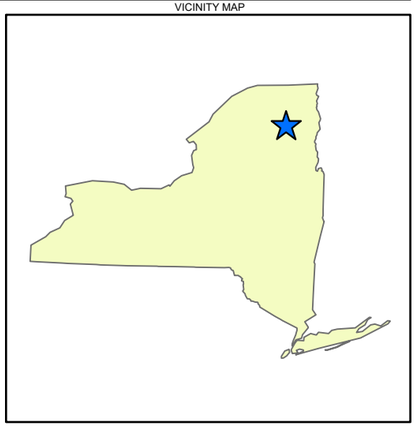


VICINITY MAP



Legend

★ Site Location

N

0 1,000 2,000

Feet

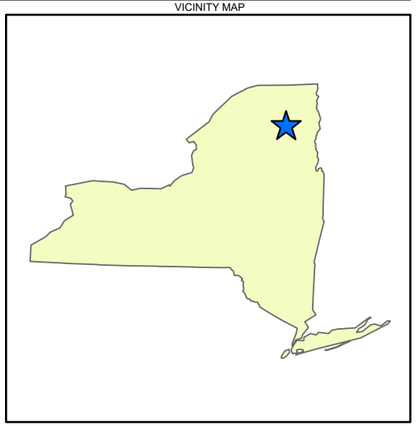
Map Date: 7/10/2023
Projection: NAD 1983 State Plane New York East
Source: WSP; ESRI

NEW YORK STATE | Department of Environmental Conservation

Figure 1
Site Vicinity Map
Saranac Lake Gas Co., Inc.
(NYSDEC Site No. 516008)
Saranac Lake, New York

\\syracusefp\Syracuse\GIS\data\Stateand\Local\Saranac Lake\PROJECTS\ArcPro (aprx)\SaranacLake\SaranacLake.aprx

VICINITY MAP



Legend

Lake Flower Monitoring Areas

- LF-1
- LF-2
- LF-3
- Cedar Trees
- Approximate Vegetation Boundary
- Fish Crib
- Fish Rock Pile
- Site Location

N

0 50 100

Feet

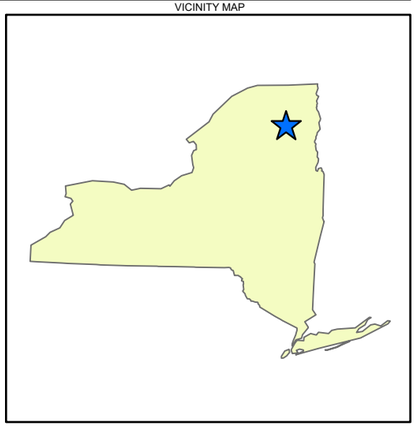
Map Date: 7/10/2023
Projection: NAD 1983 State Plane New York East
Source: WSP; ESRI

NEW YORK STATE Department of Environmental Conservation

Figure 2
Monitoring Areas and Data Collection Points - Pontiac Bay/Lake Flower
Saranac Lake Gas Co., Inc.
(NYSDEC Site No. 516008)
Saranac Lake, New York

\\syracusefp\Syracuse\GISdata\StateandLocal\Saranac Lake\PROJECTS\ArcPro (aprx)\SaranacLake\SaranacLake.aprx

VICINITY MAP



Legend

Brandy Brook Monitoring Areas

- BB-1
- BB-2
- Gravelly/coarse sand material
- Approximate Upland Edge
- Restored Stream Channel
- Japanese Knotweed
- Site Location

N

0 50 100

Feet

Map Date: 7/7/2023
Projection: NAD 1983 State Plane New York East
Source: WSP; ESRI

NEW YORK STATE Department of Environmental Conservation

Figure 3
Monitoring Areas and Data Collection Points - Brandy Brook West
Saranac Lake Gas Co., Inc.
(NYSDEC Site No. 516008)
Saranac Lake, New York

\\syracusefp\Syracuse\GIS\data\StateandLocal\Saranac Lake\PROJECTS\ArcPro (aprx)\SaranacLake\SaranacLake.aprx

VICINITY MAP

Legend

Brandy Brook Monitoring Area and Wet Plots

- BB-2
- Wet-1
- Wet-2
- Saranac Lake Gas Co. Parcel
- Approximate Upland Edge
- Restored Stream Channel
- Approximate Wet Plot Sample Locations
- Site Location

N

0 50 100

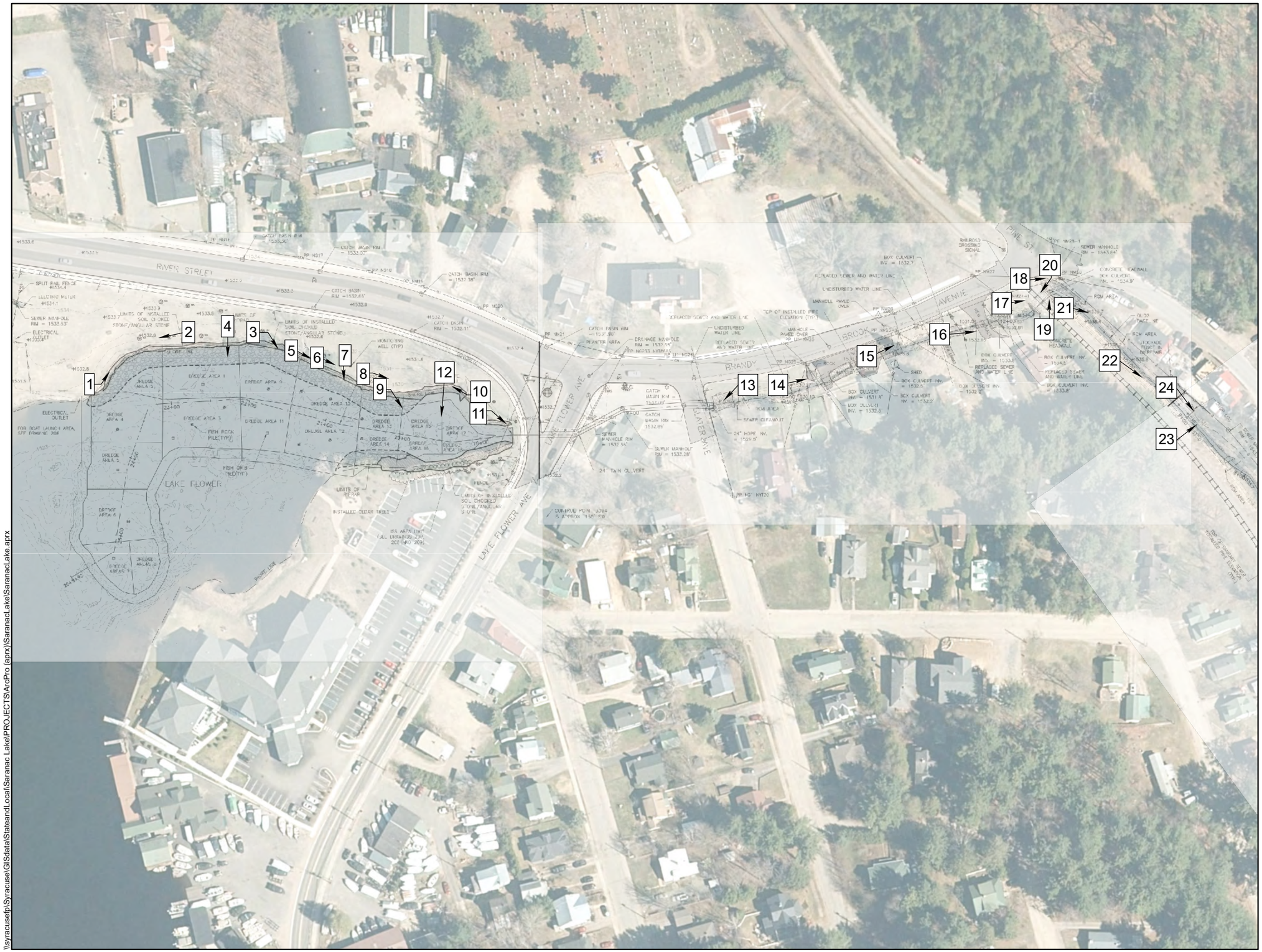
Feet

Map Date: 7/11/2023
Projection: NAD 1983 State Plane New York East
Source: WSP; ESRI

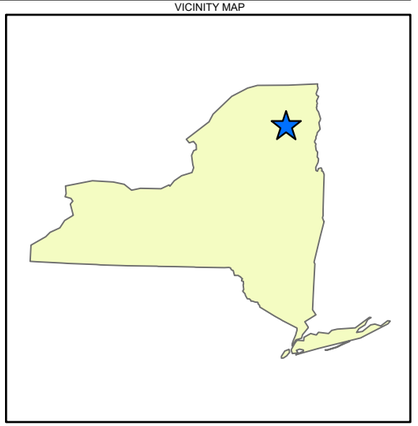
NEW YORK STATE Department of Environmental Conservation

Figure 4
Monitoring Areas and Data Collection Points - Brandy Brook East
Saranac Lake Gas Co., Inc.
(NYSDEC Site No. 516008)
Saranac Lake, New York

\\syracusefp\Syracuse\GIS\data\StateandLocal\Saranac Lake\PROJECTS\ArcPro (aprx)\SaranacLake\SaranacLake.aprx



VICINITY MAP



Legend

- Site Location
- 10 Photo Location/Direction

N

0 100 200
Feet

Note:
The photographs referenced on this figure are presented in the Saranac Lake 2023 Annual Wetlands Monitoring Report, Appendix D (Onsite Photos).

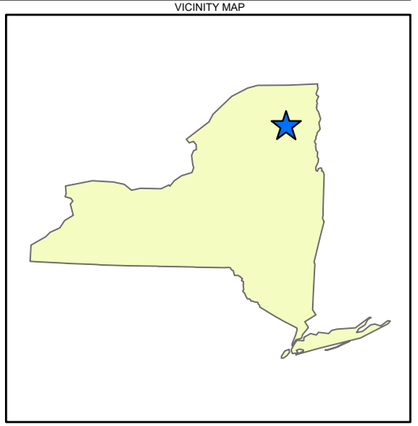
Map Date: 7/10/2023
Projection: NAD 1983 State Plane New York East
Source: WSP; ESRI

NEW YORK STATE Department of Environmental Conservation

Figure 5
Photograph Location Map #1
Saranac Lake Gas Co., Inc.
(NYSDEC Site No. 516008)
Saranac Lake, New York

\\syracusefp\Syracuse\GIS\data\StateandLocal\Saranac Lake\PROJECTS\ArcPro (aprx)\SaranacLake\SaranacLake.aprx

VICINITY MAP



Legend

- Site Location
- 25 Photo Location/Direction

N

0 75 150

Feet

Note:
The photographs referenced on this figure are presented in the Saranac Lake 2023 Annual Wetlands Monitoring Report, Appendix D (Onsite Photos).

Map Date: 7/10/2023
Projection: NAD 1983 State Plane New York East
Source: WSP; ESRI

NEW YORK STATE Department of Environmental Conservation

Figure 6
Photograph Location Map #2

Saranac Lake Gas Co., Inc.
(NYSDEC Site No. 516008)
Saranac Lake, New York

\\syracusefp\Syracuse\GIS\data\StateandLocal\Saranac Lake\PROJECTS\ArcPro (aprx)\SaranacLake\SaranacLake.aprx

Appendix C

Wetland Data Sheets

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WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Saranac lake City/County: Saranac lake / essex county Sampling Date: 2023-06-06

Applicant/Owner: NYSDEC State: New York Sampling Point: Dpw1

Investigator(s): TMK Section, Township, Range: _____

Landform (hillslope, terrace, etc.): Floodplain Local relief (concave, convex, none): Concave Slope (%): 0

Subregion (LRR or MLRA): _____ Lat: 44.32211081 Long: -74.11838117 Datum: WGS 84

Soil Map Unit Name: _____ NWI classification: PEM

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✔ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ✔ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ✔	No _____	**Is the Sampled Area within a Wetland?** **Yes** ✔ **No** _____
Hydric Soil Present?	Yes ✔	No _____	If yes, optional Wetland Site ID: _____
Wetland Hydrology Present?	Yes ✔	No _____	

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ✔ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ✔ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ✔ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Vis ble on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ✔ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes _____	No ✔	Depth (inches): _____
Water Table Present?	Yes _____	No ✔	Depth (inches): _____
Saturation Present? (includes capillary fringe)	Yes ✔	No _____	Depth (inches): 3

Wetland Hydrology Present? **Yes** ✔ **No** _____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants. Sampling Point: Dpw1

Tree Stratum (Plot size: 30 ft r)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	= Total Cover		
Sapling/Shrub Stratum (Plot size: 15 ft r)			
1. Alnus incana	5	✔	FACW
2.			
3.			
4.			
5.			
6.			
7.			
	5% = Total Cover		
Herb Stratum (Plot size: 5 ft r)			
1. Juncus effusus	20	✔	OBL
2. Eupatorium perfoliatum	15	✔	FACW
3. Typha latifolia	15	✔	OBL
4. Carex lupulina	10		OBL
5. Carex stipata	10		OBL
6. Lysimachia nummularia	10		FACW
7. Alisma plantago-aquatica	5		OBL
8. Impatiens capensis	5		FACW
9. Solidago canadensis	5		FACU
10.			
11.			
12.			
	95% = Total Cover		
Woody Vine Stratum (Plot size: 30 ft r)			
1.			
2.			
3.			
4.			
	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	60	x 1 =	60
FACW species	35	x 2 =	70
FAC species	0	x 3 =	0
FACU species	5	x 4 =	20
UPL species	0	x 5 =	0
Column Totals:	100 (A)		150 (B)

Prevalence Index = B/A = 1.5

Hydrophytic Vegetation Indicators:

✔ 1 - Rapid Test for Hydrophytic Vegetation

✔ 2 - Dominance Test is >50%

✔ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** ✔ **No** ___

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: Dpw1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0 - 3	10YR 3/1	100					Sandy Loam	
3 - 12	10YR 4/2	90	10YR 5/1	10	D	M	Sandy Loam	
12 - 16	10YR 5/2	90	10YR 5/1	10	D	M	Sandy Loam	
-								
-								
-								
-								
-								
-								
-								
-								
-								

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) (**LRR R, MLRA 149B**)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ✔ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Dark Surface (S7) (**LRR K, L**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** ✔ **No** _____

Remarks:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Saranac lake City/County: Saranac lake / essex county Sampling Date: 2023-06-06

Applicant/Owner: NYSDEC State: New York Sampling Point: Dpw2

Investigator(s): TMK Section, Township, Range: _____

Landform (hillslope, terrace, etc.): Floodplain Local relief (concave, convex, none): Concave Slope (%): 0

Subregion (LRR or MLRA): _____ Lat: 44.32122824 Long: -74.11781530 Datum: WGS 84

Soil Map Unit Name: _____ NWI classification: Pfo/pss

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✔ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ✔ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ✔	No _____	**Is the Sampled Area within a Wetland?** **Yes** ✔ **No** _____
Hydric Soil Present?	Yes ✔	No _____	If yes, optional Wetland Site ID: _____
Wetland Hydrology Present?	Yes ✔	No _____	

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ✔ Sediment Deposits (B2)
- ✔ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ✔ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ✔ Surface Soil Cracks (B6)
- ✔ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Vis ble on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ✔ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes _____	No ✔	Depth (inches): _____
Water Table Present?	Yes _____	No ✔	Depth (inches): _____
Saturation Present? (includes capillary fringe)	Yes _____	No ✔	Depth (inches): _____

Wetland Hydrology Present? **Yes** ✔ **No** _____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants. Sampling Point: Dpw2

Tree Stratum (Plot size: 30 ft r)	Absolute % Cover	Dominant Species?	Indicator Status
1. Acer rubrum	15	✔	FAC
2. Acer saccharinum	15	✔	FACW
3. Betula populifolia	10	✔	FAC
4.			
5.			
6.			
7.			
	40%	= Total Cover	

Sapling/Shrub Stratum (Plot size: 15 ft r)			
1. Alnus incana	15	✔	FACW
2.			
3.			
4.			
5.			
6.			
7.			
	15%	= Total Cover	

Herb Stratum (Plot size: 5 ft r)			
1. Carex lupulina	25	✔	OBL
2. Scirpus atrovirens	20	✔	OBL
3. Juncus effusus	15	✔	OBL
4. Solidago canadensis	10		FACU
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	70%	= Total Cover	

Woody Vine Stratum (Plot size: 30 ft r)			
1.			
2.			
3.			
4.			
		= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 7 (A)

Total Number of Dominant Species Across All Strata: 7 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	60	x 1 =	60
FACW species	30	x 2 =	60
FAC species	25	x 3 =	75
FACU species	10	x 4 =	40
UPL species	0	x 5 =	0
Column Totals:	125 (A)		235 (B)

Prevalence Index = B/A = 1.88

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

✔ 2 - Dominance Test is >50%

✔ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

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Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** ✔ **No** ___

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: Dpw2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Redox Features Type[1]	Redox Features Loc[2]	Texture	Remarks
0 - 2	10YR 3/1	100					Loamy Sand	
2 - 16	10YR 4/2	90	10YR 5/2	10	D	M	Loamy Sand	
-								
-								
-								
-								
-								
-								
-								
-								
-								
-								

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) (**LRR R, MLRA 149B**)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ✔ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Dark Surface (S7) (**LRR K, L**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** ✔ **No** _____

Remarks:

Appendix D

On-Site Photographs

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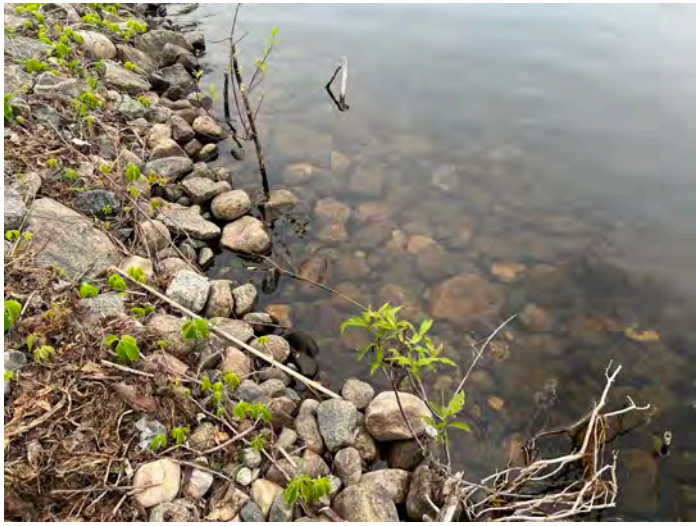
On-site Photographs
Saranac Lake Gas Co., Annual Monitoring – 2023
Photos Taken June 6, 2023

Photograph 1: Lack of woody vegetation along the bank in Monitoring Area LF-1.

Photograph 2: Overview of Monitoring Areas LF-1 and LF-2.



Photograph 3: Surviving live stakes observed at the transition from Monitoring Area LF-2 and LF-3.

Photograph 4: Dead live stakes observed within Monitoring Area LF-2.

On-site Photographs
Saranac Lake Gas Co., Annual Monitoring – 2023
Photos Taken June 6, 2023

Photograph 5: Signs of wildlife browsing on live stakes planted within Monitoring Area LF-3.

Photograph 6: Existing large trees along the banks within Monitoring Area LF-3.

Photograph 7: Successful live stakes along the banks within Monitoring Area LF-3.

Photograph 8: Mature trees along the banks within Monitoring Area LF-3.

On-site Photographs
Saranac Lake Gas Co., Annual Monitoring – 2023
Photos Taken June 6, 2023

Photograph 9: Live stakes successfully growing under mature trees within Monitoring Area LF-3.

Photograph 10: Vegetated and stable banks within Monitoring Area LF-3.

Photograph 11: Existing woody shrubs along the banks within Monitoring Area LF-3.

Photograph 12: Cedar Planting Area on the South bank of Lake Flower.

On-site Photographs
Saranac Lake Gas Co., Annual Monitoring – 2023
Photos Taken June 6, 2023

Photograph 13: Rip rap bank and unvegetated areas at the northwestern portion of Brandy Brook.

Photograph 14: View of well vegetated stream banks, facing upstream along Brandy Brook.

Photograph 15: View facing upstream of Brandy Brook along Brandy Brook Avenue.

Photograph 16: View facing upstream of the eastern portion of Monitoring Area BB-1.

On-site Photographs
Saranac Lake Gas Co., Annual Monitoring – 2023
Photos Taken June 6, 2023

Photograph 17: Easternmost portion of Monitoring Area BB-1.

Photograph 18: Area of street runoff along the top of banks of Brandy Brook at the northern portion of BB-2.

Photograph 19: Rip-rap slope of Brandy Brook at the northern end of BB-2 along Brandy Brook Avenue.

Photograph 20: Erosional deterioration of historic culvert on the northern end of Monitoring Area BB-2.

On-site Photographs
Saranac Lake Gas Co., Annual Monitoring – 2023
Photos Taken June 6, 2023

Photograph 21: View facing upstream of Brandy Brook, withing Monitoring area BB-2.

Photograph 22: View facing upstream of Brandy Brook, withing Monitoring area BB-2.

Photograph 23: Area of previously identified and treaded invasive species (Japanese knotweed).

Photograph 24: Stable drop log structure observed along Brandy Brook within Monitoring Area BB-2.

On-site Photographs
Saranac Lake Gas Co., Annual Monitoring – 2023
Photos Taken June 6, 2023

Photograph 25: View of stable stream channel bank with core log structure along Area BB-2.

Photograph 26: Stable rock vane structure within Brandy Brook within Monitoring Area BB-2.

Photograph 27: Well vegetated and stable stream banks of Brank Brook within Area BB-2.

Photograph 28: Restored emergent wetland area identified at Monitoring Area Wet-1.

On-site Photographs
Saranac Lake Gas Co., Annual Monitoring – 2023
Photos Taken June 6, 2023

Photograph 29: View facing south from Monitoring Area Wet-1.

Photograph 30: Depleted matrix identified within the soil sample at Monitoring Area Wet-1.

Photograph 31: Saturated soils identified within Monitoring Area Wet-1.

Photograph 32: Large alder shrubs located within Monitoring Area Wet-1.

On-site Photographs
Saranac Lake Gas Co., Annual Monitoring – 2023
Photos Taken June 6, 2023

Photograph 33: Southern portion of Brandy Brook between wetland areas Wet-1 and Wet-2.

Photograph 34: Restored stream channel within Monitoring Area Wet-2.

Photograph 35: Drop log structure within the restored stream channel within Monitoring Area Wet-2.

Photograph 36: Newly planted trees within Monitoring Area Wet-2.

On-site Photographs
Saranac Lake Gas Co., Annual Monitoring – 2023
Photos Taken June 6, 2023

Photograph 37: Overview of Monitoring Area Wet-2.

Photograph 38: Restored stream channel within Monitoring Area Wet-2.

Photograph 39: Tire ruts observed within the newly planted area in Wet-2.

Photograph 40: Sandy soils observed within Monitoring Area Wet-2.

On-site Photographs
Saranac Lake Gas Co., Annual Monitoring – 2023
Photos Taken June 6, 2023

Photograph 41: Reacting soil test strip indicating hydric wetland soils within Wet-2.

Photograph 42: Newly planted tree within Wet-2 with tree staking and fresh mulch pit.

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