

Nature's Wilderness Campground – Conditional Use Application Table of Contents

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October 22, 2019

Mr. Wes Sunderland, CEO Town of Baldwin 534 Pequawket Trail West Baldwin, ME 04091

New Information for Conditional Use Application: Nature's Wilderness Campground

On behalf of Mr. Scott Efron & Natures Wilderness, LLC, and per request of the Town of Baldwin Planning Board, we present the attached plans and materials in support of the Conditional Use Application for the Nature's Wilderness Campground. The Board requested that we consolidate all current materials into one comprehensive submission package to make it easier for review.

Existing Property

The development parcel is several hundred acres in size and is shown as lot #22 on the Town of Baldwin Tax Map #7. It is located within the Rural Zoning District (R). The property is traversed by several existing roads. The site will be accessed off the Marstons Road and contains Upper Twain Road & a portion of Deacon Road. There is a 21 acre man-made pond (Marston's Pond) located on the south side of Marstons Road that was created several decades ago with the installation of a dam in a stream channel. According to the Planning Board, the area around Marston's Pond has been recently rezoned as Resource Protection (RP). No new development is proposed within 250' of the pond. Only structures and features permitted prior to March 2018 will be located within the Resource Protection Area. Upper Twain Road leads to a second, 2 acre man-made pond (Upper Pond) that is approximately a half-mile north Marston's Pond. The property contained a house, several out buildings and an extensive system of trails prior to 2016.

Proposed Project

The applicant intends to open a campground on the property. The development will be contained within the portion that lies north of Marston's Road and just east of Deacon Road. This development area is approximately 150 acres of the 469 acre property. He proposes to develop the area between both ponds with a series of camp sites, a club house and a general store. There will be a mix of RV compatible sites, cabins & tent sites. The campground will offer a wide variety of amenities to outdoor enthusiasts including swimming, fishing, hiking & mountain biking and use of miles of existing ATV trails. Our preliminary plans feature a maximum of **300 camp sites**. It is important to note that the development will be contained within the 150 acre development area. All remaining land shall remain undisturbed. Each of the campsites will have, at a minimum, one parking space, fire pit & picnic table. The applicant has already cleared much of the proposed development area. No new development is proposed within 250' of Marston's Pond or within 100' of the onsite stream due to the RP zone. Only structures and features that were permitted prior to the enacting of the RP Zone in March 2018 will be located within the Resource Protection Area.

Project Utilities

The majority of sites will be served by an electrical service that will be fed via underground electric lines. Group septic systems will be regionally located around the campground to service the sites. The large cabin sites are expected to have individual water and sewer connections, while the majority of the other sites will rely on regionally located bath houses and laundry houses. Three dump stations will be centrally located to service clients with holding tanks. Septic locations are shown on the plans. HHE-200 forms will be provided by the project site evaluator.

The State of Maine Department of Health and Human Services (Department) requires that all sites have access to water carried sewage facilities. The Department stipulates that all water carried sewage effluent shall be disposed of by means of: a public system; or an approved sewage disposal system which is constructed and operated in conformance with applicable state and local laws, ordinances and regulations. Non-water carried sewage disposal facilities include pit privies, vault privies, chemical toilets, and composting toilets are only allowed if specifically permitted through the Department. By the State definition, the entirety of the campground will be serviced with conveniently located (within 500' of all camp sites) water carried sewage facilities. The Department defines sites without access to water or sanitary buildings as a primitive site. We believe that the density requirements of the Town Zoning Ordinances (5,000 SF per site vs. 20,000 SF per site) differentiate sites that have access to water carried sewer facilities vs. those that are classified as primitive sites.

Required State Permits & Project Consultants

This project will require a MDEP Site Location of Development Permit due to its size. We've had several meetings with MDEP representatives and followed the latest meeting up with a scoping/pre-application meeting at the MDEP Portland Office in October 2018. The project will also need a NRPA Wetland Alteration Permit.

The project will need a MDOT traffic movement permit. MDOT will evaluate the project impact to Route 113 and will require improvements if necessary. William Bray, P.E. of Traffic Solutions has prepared a traffic study. Updated information will be brought to the planning board meeting. The applicant has previously agreed to upgrade Marston's Road to the Town Road Standards from the intersection with Senator Black Road to the campground entrance.

The overall property boundary information shown on the attached plans is based upon a boundary survey that was completed in 1996 and was recorded in the Cumberland County Registry of Deeds (previously submitted). The property lines near the development area for the campground have been defined by Survey, Inc. (previously submitted). Statewide Surveys, Inc. & Longview Partners, Inc combined to perform a wetland & stream delineation of the project area. Longview Partners performed a vernal pool assessment in the spring of 2018. A significant vernal pool was found on the backside of Marston's Pond that is located within the town Resource Protection District. Onsite topography of the developed area was provided by Statewide Surveys, Inc. Middle Branch Land Surveying provided an existing conditions plan of Marston's Road. The remaining topography was obtained from the State of Maine Office of GIS and is shown at a 2' contour interval.



The United States Army Corp of Engineers requested that a site investigation be undertaken to look for the presence of the Small Whorled Pagonia. This type of pagonia is a threatened species. Flycatcher LLC performed a site survey in July of 2019. A grouping of four individual plants were found on the site. A copy of their report is attached. The plants are located approximately 300' from the nearest proposed area of development. The Maine Natural Areas Program will review the plan to ensure that adequate buffering has been provided.

Terradyn Consultants, LLC will assist the applicant with the local, state and federal permitting process.

Campground Rules

The campground rules were previously provided but are included here for your convenience. The campground will publish a series of rules & safety guidelines that its users will agree to adhere to. It will also operate under Department rules and regulations: Specific rules are discussed below:

- a. **Dates of Operation**: The campground will be open from May 1st through October 31st.
- b. Hours of Entry: The campground will be controlled by a gated entrance 24-hours a day. Controlled access to and from the campground will be available 24-hours a day. The registration office will be open from 7 AM to 8 PM each day the campground is open. Campers and visitors will be provided instructions on gate access procedures upon check-in. No new (un-registered) visitors will be allowed in after 8 PM.
- c. **Reservations & Rates**: The applicant has previously provided a sample rate sheet. Reservations will open February 1st of each year. Seasonal sites will need to reserve the site for the following year prior to the expiration of their rental term. After such time, the site will be offered via standard reservation on a first come, first serve basis.
- d. Vehicular Access: All campers will be given directions to the campground from both east & west of the campground access and will be directed to come down Senator Black Road via Marston's Road. It is expected that signage along Route 113 will be allowable by the Town and MDOT to direct traffic away from Brown Road.
- e. **Emergency Preparedness**: Campground safety regulations are published by the American Camp Association (see www.acacamps.org for more information). The applicant is researching those guidelines, will review them with the Baldwin Fire Dept. and intends to enact them. Copies of the campground safety regulations will be provided once prepared. The Nature's Wilderness plan will -at a minimum-feature the following:
 - i. Campfires will be put out prior to quiet/bed time.
 - ii. Camp employees will be trained in emergency procedures including first aid and fire control procedures.



- iii. All RV, Glamping and cabin sites will have water connections.
- iv. The campground owns a functioning fire truck that will be available to respond to any fire related emergency.
- v. A dry hydrant will be installed in the primary stormwater pond along the Marston's Road frontage. The connection will allow all area pumper trucks to connect to a large volume of water. As designed the stormwater/fire pond will contain more than 1,000,000 gallons of water.
- f. Number of sites: The park will not permit the placement of any R.V.'s or tents exceeding the number of sites approved by the Town of Baldwin & the State of Maine.
- g. **Primitive Recreation**: All hiking, biking & equestrian use will be limited to the campground property and abutting surrounding lands, based upon written agreements between the campground and the landowner that may be created/amended from time to time. Mounted maps will be posted at various points throughout the trail system and in the club house. Maps will be updated to reflect current land agreement areas each year.
- h. ATV use: The campground proposes to allow ATV use within the land owned by the applicant described as lot 22 on Town of Baldwin Tax Map 7. This land area contains existing trails and the campground expects to prepare additional trail networks. The applicant is proposing to reserve the right to obtain permission from abutting land owners for trail maintenance and access in an effort to expand ATV use to established trail networks located in this part of the State. All trails, existing and proposed are to be mapped and property/use limits clearly posted on the trails. The campground will display a series of maps located at various points along the trail system and will publish trail maps for the renters. A trail map exhibit is attached to this submittal. Signs will be placed at the perimeter of the defined trail limits signifying that ATV traffic must remain trails that are specifically indicated on the maps. ATVs will be prohibited from traveling along Marston's Road except at specified crossing locations. The hours of operation of ATV's on the site will be limited to 7 AM to a half hour after sunset each day. The campground reserves the right to impose additional restrictions and/or revoke privileges on the ATV use/users.
- i. Right of entry and inspection: The Town of Baldwin Code Enforcement Officer (CEO) and any duly designated officer or employee of the State of Maine Department of Health and Human Services (Department) shall have the right, without an administrative inspection warrant, to enter upon and into the premises of the campground at any reasonable time in order to determine the state of compliance with this the permit and any rules in force pursuant thereto.
- j. Register: The proprietor shall keep and maintain or cause to be kept and maintained therein, a register of guests renting or occupying sites. The register may be a book or separate registration form or card. The register shall be signed by the person renting sites or by someone under their direction. The proprietor



or their agent shall write opposite each name the number of sites assigned to and occupied by each guest, and the state and license number of any automobile then being used or operated by the registrant. The proprietor or their agent shall keep and preserve the record for 5 years showing the date of registration and duration of occupancy of each site. Said register shall be available to the CEO or any agent of the Department upon request.

- k. **Water analysis**: A copy of the current water analysis shall be at the park and in view of the public. A water sample shall be taken, tested and shown to be satisfactory before the campground opens for the season.
- I. Dump Station: Dump stations will be provided consisting of at least a four inch (10 cm.) sewer riser pipe, connected to the R.V. sewage disposal system, surrounded at the inlet by a 3 foot by 3 foot concrete apron sloped to the drain, provided with a suitable hinged cover and/or screw cap; and a water outlet to permit periodic wash down of adjacent areas. This water outlet shall be protected with an anti-siphon backflow preventer. A sign shall be posted stating that the water from this outlet is not for drinking purposes.
- m. **Garbage & Rubbish Disposal**: Garbage collection points will be installed and maintained at a number of locations within the campground. Most garbage collection points will be dumpsters, while smaller receptacles may be installed as well. Garbage and rubbish will be kept in durable insect proof containers that do not leak and do not absorb liquids. Plastic bags and wet-strength paper bags may be used to line these containers. All containers will be provided with tight-fitting lids. The campground will provide a sufficient number of containers to hold all of the garbage and rubbish which accumulates between periods of removal.
- n. Swimming Pool: The campground will contain a large swimming pool. It will be constructed and operated in accordance with all state rules applicable to swimming pools.
- o. Park Amenities & Services Limited to Paying Guests: The park amenities, services & activities will be available only to campers & guests. The park is not open for use by the general public. The campground intends to offer a variety of amenities, services & activities including:
 - i. **Swimming**: Swimming lessons will be offered to guests and taught by a certified instructor.
 - ii. **Archery**: an archery range may be established in a suitable location. If and when the range is open, a safety instructor will be on duty.
 - iii. **Canoes & Kayaks**: Canoes and Kayaks will be provided for free to campers and invited guests.

Note: ATV's will not be rented to the campers.



p. **Multi-purpose Building:** The multi-purpose building will function as a community center, general store & restaurant. It will be open to campers and registered guests between the hours of 8 am to 9 pm.

The campground intends to sell retail goods from the general store. No limitations on goods that are offered for sale are proposed under this application.

The restaurant will offer prepared and made-to-order food items for sale to campers and registered guests. Menu items are expected to include breakfast, lunch and dinner items. The applicant reserves the right to change the menu items as they see fit.

The building will also contain games, TV's and other indoor recreational activities.

q. **Primitive Sites Prohibited:** The Nature's Wilderness Campground will not contain any primitive sites.

Conditional Use Information

This information is offered in support of the conditional use application.

Section A: Basic Information

1: Applicant's Legal Name:

The applicant's name is Nature's Wilderness, LLC. – A Maine Corporation

2: Applicants Mailing Address:

Nature's Wilderness, LLC c/o Mr. Scott Efron 2 Upper Twain Road Baldwin, ME 04091

3: Applicant's Phone Number:

Mr. Gerry Brown, General Manager, is the primary contact for the project and can be reached at 207-409-7724. Mr. Scott Efron, owner, can be reached at 207-787-6012.

4: Owner of Record:

Nature's Wilderness, LLC is the legal owner of the property. Mr. Scott Efron is the president of Nature's Wilderness, LLC. (Previously submitted)

5: Right, Title or Interest:

Nature's Wilderness, LLC is the legal owner of the property per deed recorded in the Cumberland County Registry of Deeds in book 33066, page 317. (Previously submitted)



6: Property Owner's Name:

Nature's Wilderness, LLC is the legal owner of the property. Mr. Scott Efron is the president of Nature's Wilderness, LLC.

7: Owner of Record Address

Nature's Wilderness, LLC 17569 Middlebrook Way Boca Raton, FL 33496

8: Location of Property:

The property is located at 2 Upper Twain Road.

9: Tax Map & Lot Number:

The development is a portion of the property shown as Lot 22 on Tax Map 7.

10: Zoning District:

The development is located in the Rural Zoning District. The area surrounding Marston's Pond is zoned Resource Protection.

11: Conditional Use:

The applicant seeks to permit a campground use for the property. We believe that the entirety of the proposed operation falls beneath the use of a campground. However, the following uses will be accessory to the campground and available only for registered campers and registered guests:

- a. Primitive Recreation
- b. Retail Business
- c. Service Business
- d. Community Building
- e. Eating & Drinking Places
- f. Neighborhood Store
- g. ATV Trails

12: Required Items:

a. Location Map

A location map was previously submitted. A second location map is shown on the cover sheet of the attached plan set.

b. Written Description of the Proposed Use. (See introduction of this letter)

The applicant intends to open a campground on the property. He proposes to develop the area between both ponds with a series of camp sites, support buildings,



a pool, recreation areas and a multipurpose building with general store and restaurant. There will be a mix of tent sites (63 sites depicted as circles on the plans), Regular RV compatible sites (186 sites depicted as squares on the plans) & cabins (51 sites depicted as triangles on the plans). Our attached site plans feature 300 campsites.

c. Drawings of Proposed Activity

A plan set is attached that shows the proposed development. They show the location of existing & proposed buildings, structures, driveways, parking areas, campsites, natural features, etc.

Section B: Standards for Conditional Use Permit:

1. The Planning board shall consider impact of:

1a: Size of the proposed use compared to surrounding uses:

The campground is located on a large piece of property and is fairly isolated from other development. The area of Map 7/Lot 22 that is located north of Marston's Road is approximately 300 acres. The proposed development area is generally located on the central portion of the property, with typically several hundred feet between the development and abutting property lines. Many of the abutting properties are also owned by the applicant. There are single family homes that front on the portion of Marstons Road that lies between Senator Black Road & the development. The single family lots located along Marstons Road appear to be between 5-10 acres. Other than the lots along Marstons Road, the property is surrounded by other large, undeveloped properties. The Town of Baldwin ordinance requires that the area intended for placement of the recreational vehicle, tent, or shelter and utility and service buildings, shall be set back a minimum of 100 feet from the exterior lot lines of the camping area and 100 feet from the normal high-water elevation of any water body. The proposed campground meets these setback requirements, except for the existing Marston House and an associated shed that have been on the property since before the ordinance was created.

1b: Intensity of the proposed use, including amount and type of traffic to be generated, hours of operation, expanse of pavement, and similar measures of intensity of use, compared with surrounding uses:

The campground will offer a variety of rental durations including daily, weekly, monthly & seasonal. The applicant intends to provide the necessary amenities & activities to allow the campers to remain onsite for the duration of their stay. Arrivals & departures do not typically coincide with the traditional heavy traffic times of the weekday A.M. & P.M. peak hour. The campground will serve recreational vehicles of all sizes as well as cars and trucks with & without pull behind campers. The applicants anticipate that the peak season will be from late spring to early fall. The campground will be open from May 1st through October 31st of any given year. Campers will be told that the entry gates will be open between 7 am & 9 pm every day. An exit gate will be accessible 24-hours a day. A system for secure entry of registered campers before and after hours will be set up, to allow 24-hour entry as well.



The project will make use of the existing roads & trails to the maximum extent possible. Most of the access roads will be built over the existing trails. The area around the multipurpose building will feature a large parking & maneuvering area to allow large vehicles to move safely & easily through the site. This area will also be defined as a visitor parking area as well as overflow parking for campsites. The expanded access roads, new access roads, parking lots & proposed buildings will create over 5 acres of new impervious areas.

The applicant is planning to upgrade the portion of Marston's Road that lies between the intersection with Senator Black Road and Upper Twain Road. They have supplied the necessary bonding paperwork. (See attachment)

We have submitted a traffic study and the applicant will be submitting a Maine DOT Traffic Movement Permit application. The Maine DOT will review the project's impact to Route 113, at a minimum and determine if any mitigation will be necessary.

1c: The potential generation of noise, dust, odor, vibration, glare, smoke, litter and other nuisances:

The applicant is proposing to maintain a watering truck (or like machine) to maintain dust generation for the interior roadways as well as Marston Road both during construction and operation of the campground. Construction noise by controlling the hours of construction. Once completed, a campground is not a large generator of noise, dust, odor, vibration, glare, smoke or litter. Most of the campground development is located far from any exterior property line.

1d: Unusual physical characteristics of the site, including size of the lot, shape of the lot, topography, and soils, which may tend to aggravate adverse impacts upon surrounding properties:

The size of the wooded property, as well as the varied terrain of the area, will help to control the impact of the proposed use to the surrounding properties. Most of the development is located far from any existing development.

1e: The degree to which landscaping, fencing, and other design elements have been incorporated to mitigate adverse impacts on surrounding properties:

The site will be able to maintain large undisturbed swaths of forest between the development & exterior property boundaries. All lighting will feature full cutoff fixtures to avoid excessive glare. The existing conditions of the property surrounding Marston's Pond will be remain as is. Marston's Pond was recently added to the Town's Resource Protection Zone. No campsites are proposed on the south side of Marston's Road as part of this proposal.

2. The Planning board shall consider facilities:

2a: The ability of traffic to safely move into and out of the site at the proposed location:



The applicant proposes to upgrade the portion of the road that lies between Senator Black Road & their property to allow for easy passage along the entire corridor. They have already upgraded the portion of the road that is located over their property. Upper Twain Road, the connection to Deacon Road and Deacon Road will serve as the primary access through the site. They will be widened to support two direction traffic as will all access road located off Deacon Road. Additionally, several pull-offs have been incorporated into the design as an added safety measure. The sites located upgradient to the existing portion of Upper Twain Road will support one way traffic. We have provided a large hammer-head turnaround behind the club house to allow large vehicles a convenient place to turn around.

Bill Bray, P.E. of Traffic Solutions, Inc. is permitting a MDOT traffic movement permit due to the amount of expected traffic volume. His study was previously submitted.

2b: the presence of facilities to assure the safety of pedestrians passing by or through the site:

The site will be pedestrian friendly. The pedestrians will be camp site users in and around their camp sites and people using the multipurpose building. The multipurpose building will feature an open entrance area with clear visibility for drivers, bicyclists and pedestrians, as this will be a common area for all campers to utilize throughout their stay. The building and pool area will be separately from vehicular traffic and will have walkways focused on the movement of a relatively large number of pedestrians at any one time. Speed limit signs and warning signs for drivers to yield to pedestrians will be posted periodically within the campground.

2c: The capacity of the street network to accommodate the proposed use:

The existing street network will be upgraded to accommodate the proposed use. The internal circulation will be constructed to a level that allows for easy maneuvering & access throughout the site. Emergency access and parking locations will be considered when designing interior roadway widths.

2d: The capacity of the storm drainage system to accommodate the proposed use:

The project will require a MDEP Site Location of Development Act Permit. A large portion of this application revolves around the transport & treatment of stormwater. We have performed sizing calculations for each culvert, swale, stormwater pond and erosion control measure to ensure that all components of the stormwater & erosion control system are properly sized to handle the 25 year/24 hour storm event. MDEP will review the drainage & erosion control design & calculations.

Water quality treatment for much of the previously developed area will be provided with a new treatment pond that will receive runoff from most of Upper Twain Road, the RV camping areas around Roads "A" & "B", the multipurpose building and pool area, approximately half of the glamping area and a portion of Marston's Road. The treatment pond will remove sediment from the runoff before it enters Marston's Pond. The new area that is closest to Deacon Road will flow to a series of level spreader/forested buffer combinations. Marston's



Pond will be outfitted with an under-drained gravel bench at the outlet to provide cooling to water as it enters the stream below the dam. Water quantity control will be done by modifying the outlet to the dam. The updated stormwater narrative is attached.

2e: The ability of the town of provide necessary fire protection services to the site & development:

The improvements to Marston's Road will allow for safe and easy access to the site for emergency vehicles. We have proposed a fire pond with a dry hydrant near the entrance to the site. The existing ponds are too shallow to support a standard dry hydrant installation. They are also protected natural resources. The proposed stormwater/fire pond will offer more than one million gallons as currently designed. Additionally, the campground will have park rules limiting the use of camp fires and will operate a fire truck to assist with fire protection.

3. The Planning board shall consider natural characteristics:

The natural characteristics of the site, including topography, drainage, and relationship to ground and surface waters and flood plains, shall not be such that the proposed use when placed in the site will cause undue harm to the environment or to neighboring properties.

The project is located on a large property that is mostly wooded with variable terrain. Much of the campground use will utilize areas that have already been disturbed, therefore retaining the natural state of the property for the enjoyment of campers. Roadways and campsites will follow the existing terrain, as much as possible. This will result in a wide variety of elevations for site throughout the campground. Drainage will be maintained using the natural grades and introducing a pond that will fit in the with natural pond settings already on the site. The man-made outlet of Marston's Pond will be altered and maintained to control flood waters as well as improve the water temperature control before flows enter the downstream brook.

Additionally, a number of wells will supply drinking water to the campground. The wells will be located throughout the campground and are to be located a great distance from any abutting wells. All wells will be located at least 300' from the nearest septic system. Given the specifics of the proposed development, it is not expected that the use, when placed in the site, will cause undue harm to the environment or to neighboring properties.

Section C: Shoreland Standards:

This section may be applicable since a stream flows from the upper pond to & through Marston's Pond. Some of the existing & proposed development is to be located within 100-feet of that stream. Additionally, the area around Marston's Pond is zoned Resource Protection. There is no proposed development around the pond (south of Marston's Road).

a: Will not result in unreasonable damage to spawning grounds, Fish aquatic life, bird and other wildlife habitat:



The Maine Department of Environmental Protection & the Maine Department of Inland Fisheries & Wildlife will be reviewing the project for its impact to all fish & wildlife. The site is not considered to be a high value wading bird or waterfowl habitat. The stream below Marston's Pond is considered a cold-water fishery habitat. Therefore, our proposed modifications to the downstream end of Marston's Pond have been designed to improve the water quality & temperature of the stream flow.

b: Will reasonably conserve shoreland vegetation:

The MDEP has established a 100-foot no disturbance buffer along the stream. A permit by rule will be submitted for all camp sites that are proposed within the buffer.

There will be no campsites adjacent to Marston's Pond. All areas surrounding Marston's pond – except the areas surrounding Marston's Road and the recreational areas already permitted – will be left in its natural state. Any previous disturbance has been revegetated per MDEP criteria.

c: Will reasonably conserve visual points of access to waters as viewed from public facilities:

The view of Marston's Pond is one of the highlights of the proposed design. It will be preserved. Access to Upper Pond will be improved and the view preserved.

d: Will conserve actual points of public access to waters:

Marstons Road & Upper Twain Road will be improved & will provide easy access throughout the site. Marston's Pond & Upper Pond are private and will not be open to the general public.

e: Will reasonably conserve natural beauty:

Much of the site will be preserved in its natural state. The applicant sees the properties natural beauty as the main attraction for this campground. It will be preserved & improved wherever possible.

f: Will reasonably avoid problems associated with floodplain development or use:

There is not a floodplain associated with the stream outside of the existing banks.

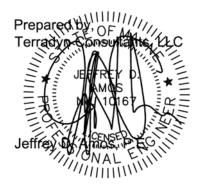


The following items are attached as required by the Conditional Use Application procedures & per Planning Board request:

- Attachment 1: Conditional Use Application
- Attachment 2: Property Deeds
- Attachment 3: Location Map
- Attachment 4: Stormwater Management Report
- Attachment 5: Septic Test Pit Logs
- Attachment 6: HHE-200 forms
- Attachment 7: Traffic Study
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- Attachment 15: Trail Map Exhibit

Preliminary construction plans are included with this submittal.

We look forward to discussing this information with the Planning Board at an upcoming Planning Board Meeting. Thank you for your consideration, and please call me if you have any questions as you review the enclosed plans and information.







4. Are you the owner of record

interest.

of the property for which the

Conditional Use Permit is sought?

Town of Baldwin

534 Pequawket Trail West Baldwin, Maine 04091 Phone: (207) 625-3581 Fax: (207) 625-7780

APPLICATION FOR CONDITIONAL USE PERMIT (CUP)

The Land Use Ordinance of the Town of Baldwin allows the Planning Board to grant a

Conditional Use Permit (CUP) for those uses listed specifically as Conditional Uses in Article 6, District Regulations of the code. Before granting a permit, the Board must find that the standards contained in Article 8, Conditional Uses have been met. It is your obligation to submit the necessary materials to allow the Planning Board to determine if those standards have been met. Three copies of the complete application and supporting materials and the applicable fee shall be submitted to the Code Enforcement Officer.

Section A. Basic Information (to be completed by all applicants)

1. Applicant's Legal Name:

Nature's Wilderness, LLC

2. Applicant's Mailing Address:

c/o Mr. Scott Efron, 2 Upper Twain Road

Baldwin, ME 04091

3. Phone number where applicant can be reached during business hours.

207-787-6012

5. To apply for a Cond. Use Permit,
you must have legal right, title or
interest in the property. Please
indicate you interest in the property
and attach written evidence of this

Conditional Use Permit Application

x yes (provide copy of Title and go to question 8)

no (answer question 5, 6, and 7)

Conditional Uses. For each item, please indicate by checking that item that it has been included with your application. a. A location map showing the location of the property with respect to Roadways and major natural features. This map should allow the Board to locate the parcel in the field and on the Town's zoning and tax					
8. Location of property for Which the permit is sought? 2 Upper Twain Road 9. Indicate the Map and Lot number for the Property from the Town's assessment records Map 7 Lot 22 10. Indicate Zoning District in which the Property is located (check as many as apply) x	6. P	roperty Owner's Name			
9. Indicate the Map and Lot number for the Property from the Town's assessment records Map 7 Lot 22 10. Indicate Zoning District in which the Property is located (check as many as apply) x Natural Resource Protection Highlands x Rural Village Commercial 11. List the use for which a Conditional Use Permit is being sought. Please refer to Article 6, District Regulations. The proposed use must be specifically listed as conditional use in the District in which it is located. Primary Use: Campground. The following uses are accessory: Primitive Recreation, Retail Business, Service Business, Community Building, Eating & Drinking Place & Neighborhood Store 12. Attach the following information to this application as outlined in Article 8, Conditional Uses. For each item, please indicate by checking ✓ that item that it has been included with your application. x a. A location map showing the location of the property with respect to Roadways and major natural features. This map should allow the Board to locate the parcel in the field and on the Town's zoning and tax	7. P	roperty Owner's Address			
Property from the Town's assessment records Map7 Lot 22 10. Indicate Zoning District in which the Property is located (check as many as apply)		[19] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1	2 Upper Twain Road		
Property is located (check as many as apply)				ıp <u>7</u>	Lot22
Highlands x Rural Village Commercial 11. List the use for which a Conditional Use Permit is being sought. Please refer to Article 6, District Regulations. The proposed use must be specifically listed as conditional use in the District in which it is located. Primary Use: Campground. The following uses are accessory: Primitive Recreation, Retail Business, Service Business, Community Building, Eating & Drinking Place & Neighborhood Store 12. Attach the following information to this application as outlined in Article 8, Conditional Uses. For each item, please indicate by checking that item that it has been included with your application. x a. A location map showing the location of the property with respect to Roadways and major natural features. This map should allow the Board to locate the parcel in the field and on the Town's zoning and tax		그렇게 있어졌다면 하면 하셨다면서 그렇게 있어요. 하면 어떻게 되었다. 그리고 얼마나 나를 가지 않는데 하는데 없다.			
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Roadways and major natural features. This map should allow the Board to locate the parcel in the field and on the Town's zoning and tax	12. A	ttach the following informational Uses. For each ite	on to this application arm, please indicate by	as outlined checking	in Article 8,
maps.	X	Roadways and major n	atural features. This n	nap should	allow the

b. A written description of the proposed use of the property. This statement shall describe the exact nature of the proposed use.
c. An accurate, scale drawing of the lot showing the location of any existing or proposed buildings, structures, and natural features, driveways and parking areas.
Section B. Standards for Conditional Use Permit
(The full text appears in Article 8.3).
1. The Planning Board shall consider impact:
\underline{x} a. the size of the proposed use compared with surrounding uses;
b. the intensity of the proposed use, including amount and type of traffic to be generated, hours of operation, expanse of pavement, and similar
measures of intensity of use, compared with surrounding uses;
c. the potential generation of noise, dust, odor, vibration, glare, smoke, litter and other nuisances;
d. unusual physical characteristics of the site, including size of the lot,
shape of the lot, topography, and soils, which may tend to aggravate adverse impacts upon surrounding properties.
xe. the degree to which landscaping, fencing, and other design elements have
been incorporated to mitigate adverse impacts on surrounding properties. 2. The Planning Board shall consider facilities:
a. the ability of traffic to safely move into and out of the site at the proposed location;
b. the presence of facilities to assure the safety of pedestrians passing by or through the site;
c. the capacity of the street network to accommodate the proposed use;
d. the capacity of the storm drainage system to accommodate the proposed use;
e. the ability of the Town to provide necessary fire protection services to the site and development.
3. The Planning Board shall consider natural characteristics:
The natural characteristics of the site, including topography, drainage, and relationship to ground and surface waters and flood plains, shall not be such that the proposed use when placed on the site will cause undue harm to the environment or to neighboring properties.

Conditional Use Permit Application

feet of the normal high water mark of Ir Adams Pond or the Saco River or within attach a written statement demonstrating standard. For each item, please indicate included with your application. Each st submission. a. will not result in unreasonable of life, bird and other wildlife habb. will reasonably conserve shore.	andard must be addressed in your damage to spawning grounds. Fish aquatic itat; land vegetation;
xc. Will reasonably conserve visual	points of access to waters as viewed from
use.	l beauty; associated with floodplain development or
Section D. Certification (to be completed	d by all applicants)
I/we Scott Efron of Nature's Wilderness legal applicants for the Conditional Use I I/we are the owners of the property cover owner's consent to the filing of this appl property and that the information contain material is accurate and true.	Permit requested by this application, that red by this application or have the property ication and have legal interest in the
I/we further certify that I/we have read th	e standards for granting of Conditional
Use Permits contained in the Land Use O	ordinance 9/16/18
Si	gnature of Applicant Date
Si	gnature of Applicant Date

Conditional Use Permit Application

For Planning Board Use Only	
Date Received by Baldwin Planning Board:	
Received by:	
Public Hearing Date:	
Conditional Use Permit Application of:	
Permit Denied (date):	
Explanation of Denial:	
Esperiment of Bollius.	
Permit Approved (date):	
Conditions to Permit if any,	

DLN# 1001640007215

WARRANTY DEED

We, CAMP TWAIN, INC., a Maine Corporation, whose mailing address is 3 Bickford Street, Scarborough, Maine 04074, and MARY M. WAYE, now of 10 Bay Street, Scarborough, Maine 04074, for consideration paid, grant to NATURE'S WILDERNESS, LLC, a Florida Limited Liability Company with a mailing address of 17569 Middlebrook Way, Boca Raton, Florida 33496, with WARRANTY COVENANTS, the land in Baldwin, Cumberland County, Maine, more particularly described in EXHIBIT A attached hereto.

Being the same premises conveyed to Camp Twain, Inc. by Quitclaim Deed from Marianne G. Fenton, Cynthia J. Garner, Dana A. Garner, John W. Garner, Jr., and Suzanne G. Smith, dated December 28, 2001 and recorded in the Cumberland County Registry of Deeds in Book 17172, Page 120.

Also being the same premises conveyed to Mary M. Waye by deed from Sylvia B. Marston dated January 24, 1989 and recorded in the Cumberland County Registry of Deeds in Book 8638, Page 87.

WITNESS our hands and seals this 26	day of <u>Upsel</u> , 2016.
	CAMP TWAIN, INC.
	By: Marianne G. Fenton, President
	MARY M. WAYE
STATE OF MAINE Cumberland, ss:	Date: 4/26/16

Personally appeared before me the above-named MARIANNE G. FENTON, duly authorized President of Camp Twain, Inc., and acknowledged the foregoing to be her free act and

deed, individually and in her said capacity.

Please type or print name of Notary:

Jane L. Barriault Attorney at Law

STATE OF MAINE

Cumberland, ss:

Date: 4/26/16

Personally appeared before me the above-named MARY M. WAYE and acknowledged

the foregoing to be her free act and deed.

ofary Public/Attorney at Law

Please type or print name of Notary:

Jane L. Barriault Attorney at Law

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EXHIBIT A

Certain lots or parcels of real property located in Baldwin, County of Cumberland and State of Maine, together with all buildings and other improvements thereon, bounded and described as follows:

Parcel 1:

A certain lot or parcel of land situated in said Baldwin, bounded and described as follows: To the North by the town road leading from West Baldwin to East Baldwin by way of the so-called Flint neighborhood; to the East by land now or formerly of John F. Flint and land now or formerly of Foresti Sandborn; to the South by land now or formerly of Foresti Sandborn, land now or formerly of Jeremiah B. Yates, and land now or formerly of Sylvanus R. Yates; and to the West by land now or formerly of Sylvanus R. Yates. Known as the "meadow lot", so-called, formerly owned by the late Joseph Harding, Jr.

Parcel 2:

A certain lot or parcel of land in said Baldwin, bounded and described as follows: Commencing at a concrete post on the north side of the road leading from West Baldwin to East Baldwin, by way of the so-called Flint neighborhood, North 1° 10′ East, 251 feet to a stone and iron axle, bounded on the East by land now or formerly of D. T. Flint; from the stone and iron axle, South 51° 33′ West 673 feet to a concrete post, and South on the same line 810 feet to a stake, bounded on the Northwest by land now formerly of D. T. Flint. From the stake, North 71° 48′ East 995 feet to a second stake, bounded on the South by land now or formerly of Wilson Burnell and Mary H. Burnell. Form the second stake, 400 feet North 30° 15′ East to the concrete post at which measurement commenced, bounded on the East by land now or formerly of said Wilson Burnell and Mary H. Burnell.

Parcel 3:

A certain lot or parcel of land situated in said Baldwin and bounded and described as follows: To the West by the line running from the second stake referred to hereinabove in description of Parcel 2, North 30° 15' East to the concrete post at which measurement was commenced in said Parcel 2, being all of the land lying between said line and Parcel 1.

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Parcel 4:

Also a certain lot or parcel of land situated in said Baldwin, now or formerly known as the Gore Lot, bounded and described as follows: To the North by land now or formerly of Scribner and Rankin; East by the land now or formerly known as the Binford Lot; South by land now or formerly of Wilson and Mary H. Burnell, and the now or formerly so-called Deacon's Fountain Road; west by land now or formerly of Walter Flint.

Subject to an easement granted to Dwight R. Mills, Incorporated, under deed dated November 7, 1979 recorded at Book 4524, Page 278 of said Deeds.

Parcel 5:

A certain lot or parcel of situated in said Baldwin and bounded and described as follows: On west by land now or formerly of Paul C. Marston and said John W. Garner; on the North by land now or formerly of the Paul C. Marston and said John W. Garner; on the East by the road leading to the now or formerly so-called "Jack Flint Place"; and on the South by the road leading from West Baldwin to the now or formerly so-called "Jack Flint Road".

Subject to the right reserved by Wilson Burnell and Mary H. Burnell to cut firewood on said lot, and a right of way to the Burnell family burial ground and around said ground to repair its fence as set forth in the deed at Book 1923, page 167 of said Deeds.

Parcel 6:

A certain lot or parcel of land situated in said Baldwin, bounded and described as follows: On the West by the road leading to the now or formerly so-called "Jack Flint place; on the North by land now or formerly of Paul C. Marston and said John W. Garner; on the East by land now or formerly of Paul C. Marston and said Garner; and on the South by the town road leading to East Baldwin;

Parcel 7:

A certain lot or parcel of land situated in said Baldwin, on the southerly side of the road leading from East Baldwin to West Baldwin, bounded and described as follows: Beginning on said road at a stone and hemlock tree at land now or formerly of S. W. Noyes, formerly known as Kennard's land; and South by land now or formerly of S. W. Noyes to an iron pipe driven in the ground at the land now or formerly of Harold H. Hawkes; West by land now or formerly of said Hawkes to a concrete post at land now or formerly of Wilson Burnell; North by land now or formerly of said Burnell to an iron pipe driven in the ground by said road to the point begun at.

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Parcel 8:

A certain lot or parcel of land situated in said Baldwin, on the North side of the road leading from East Baldwin to West Baldwin, bounded and described as follows: Beginning on said road at the stone wall at the land now or formerly of Paul C. Marston and said John W. Garner, North by the stone wall and land now or formerly of Paul C. Marston and said Garner to a corner in said stone wall at the land now or formerly of Milliken; East by the stone wall with the land now or formerly of Milliken to the now or formerly so-called Milliken Road; Southeast by the now or formerly so-called Milliken Road to the first mentioned road; West by the first mentioned road to the point begun at.

Parcel 9:

A certain lot or parcel of land situated in said Baldwin, bounded and described as follows: Beginning at a point on the West side of the road leading across the now or formerly so-called "Jack Flint farm" at the Southeast corner of the portion of said farm which lies West of said road; North by said road to a stone wall; West by said stone wall by a line extended from said wall across a brook to the east line of an old farm road; South by the east side of said old farm road and by its East line extended from the point where it makes a substantial turn to the South line of said farm; East by the south line of said farm to the point beginning.

Excepting and reserving to Delmont R. Hawkes, his heirs and assigns, a right of way on foot and with vehicles, from the road first mentioned across said parcel to land belonging to said Hawkes adjoining said parcel on the West, said right of way to coincide as nearly as may be with the old farm road above referenced to.

Parcel 10:

A certain lot or parcel of land situated in said Baldwin, adjoining Parcel 9 on the North, bounded and described as follows: Beginning at a point on the North line of said Parcel 9, 300 feet East from the brook aforementioned; West along said North line a distance of 600 feet and from these two points extending to the north, embracing a tract 300 feet in width on either side of said brook to the North line of land now or formerly of Loren B. Burnell.

Excepting and reserving to Delmont R. Hawkes, his heirs and assigns, the right of way to cross said parcel on foot or with vehicles, at any convenient point or points for the purposes of accessing to the land of said Hawkes lying west of said parcel, but not to the injury of any erection or structure thereon.

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Parcel 11:

A certain lot or parcel of land situated in said Baldwin, bounded and described as follows: Northeast by the Town Road leading from West to East Baldwin through the now or formerly so-called "Flint neighborhood"; Southeast by land now or formerly of Paul C. Marston and said John W. Garner and by Pigeon Brook; Southwest by land now or formerly of Wilson and Mary H. Burnell and land now or formerly of Henry W. and Nellie M. Black; Northwest by land now or formerly of Paul C. Marston and said Garner, and by land now or formerly of the heirs of Arthur P. Yates;

Parcel 12:

Also a certain lot or parcel of land situated in said Baldwin, bounded and described as follows: South by the land now or formerly of the heirs of Henry H. Pierce; Southeast by Pigeon Brook; Southwest by land now or formerly of Henry W. and Nellie M. Black; North by the parcel described hereinabove as Parcel 11.

Parcel 13:

A certain lot or parcel of land situated in Baldwin, bounded and described as follows: Measuring from the center of the Central Maine Power tower, 28 feet to a line running parallel to the center of the line of said tower, this line being the south boundary; bounded Northwest by land now or formerly of Donald T. Flint; Southeast by the land now or formerly of the heirs of Arthur P. Yates; East by the land now or formerly of Paul C. Marston and said John W. Garner.

Parcel 14:

A certain lot or parcel of land situated in said Baldwin on the Southwest side of a pond now or formerly called Burnell's Pond, bounded and described as follows: Beginning in the Northwest side line of land now or formerly of Ralph Yates and Lillie E. Hefler, Southwest from said Pond, at a spotted hemlock tree situated Northeast of a large double white pine tree, and running in a straight line South 55° 45' East to the Southeast side line land now or formerly of said Yates and Hefler, at a spotted beach tree on land now or formerly of Paul C. Marston, said spotted beach tree being located approximately ten feet East of a large white pine tree; Northeast along the division line between land now or formerly of said Yates and Hefler, and land now or formerly of Paul C. Marston to said pond; West or Northwest along the shore of said pond to the division line between land now or formerly of said Yates and Hefler and other land of Paul C. Marston; Southwest along said last named division line to the point of beginning;

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RECEIVED - RECORDED, CUMBERLAND COUNTY REGISTER OF DEEDS

04/27/2016, 11:11:55A

Register of Deeds Nancy A. Lane E-RECORDED

Parcel 15:

A certain lot or parcel of land situated in said Baldwin, on the easterly side of the now or formerly so-called Deacon Road, leading from Route No. 113 past the "Jack Flint place," and bounded and described as follows: Beginning on said Deacon Road at a point in the above described Parcel 4, said point of beginning marked by a pipe set in the ground; North by said Deacon Road and land of Paul C. Marston past the cellar of the dwelling formerly of the late Jack Flint a distance of 677 feet, more or less, to the first stone wall on land formerly of Delmont R. Hawkes, now or formerly Dwight R. Mills, Incorporated; East by the stone wall at land formerly of said Hawkes, now or formerly of Dwight R. Mills, Incorporated, a distance of 690 feet, more or less, to an intersection with a stone wall running southerly at other land now or formerly of Dwight R. Mills, Incorporated; South by said stone wall and land now or formerly of Dwight R. Mills, Incorporated, formerly of said Hawkes, a distance of 1070 feet, more or less, to a stone wall on land of the Decedent; West by said stone wall and land of Paul C. Marston a distance of 300 feet, more or less, to the point of beginning;

Parcel 16:

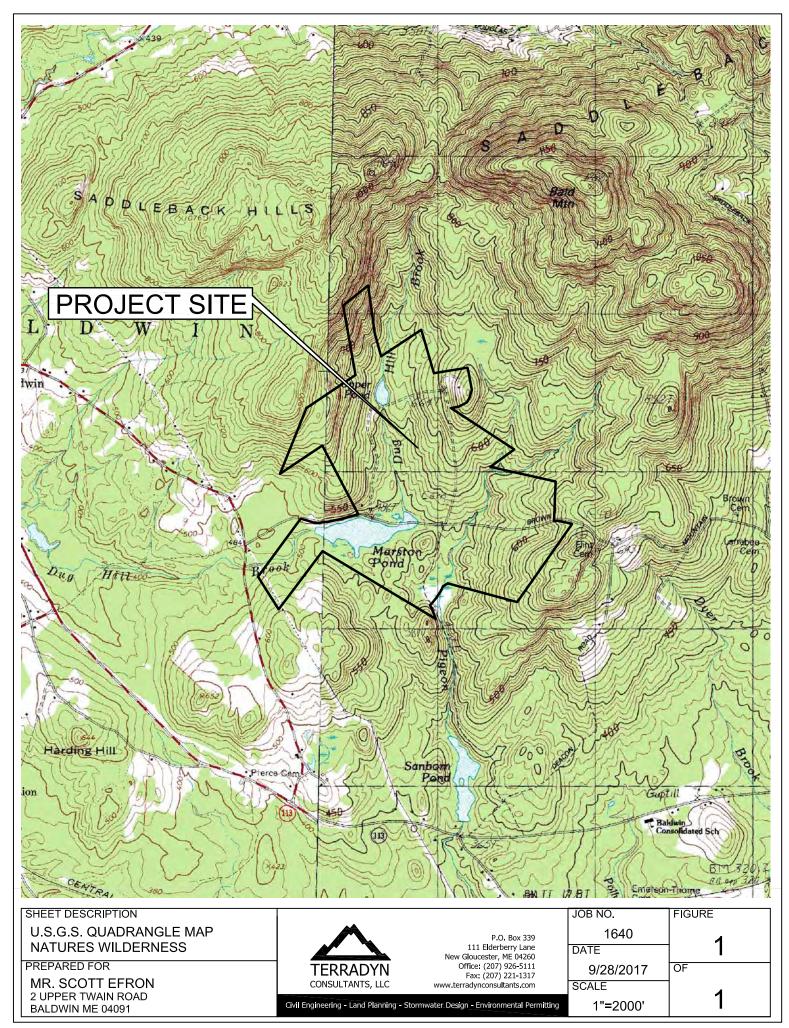
A certain lot or parcel of land situated in said Baldwin, lying South and East of the two lines hereinafter described: The first line begins on the West side of the Deacon Road at the second stone wall which is 1000 feet North from Parcel 4 hereinabove described, opposite the iron pipe being the point of beginning for Parcel 15 hereinabove described, said line running West a distance of 1200 feet, more or less, to a brook and continuing the same course across the brook 900 feet, more or less, to the East line of an old farm road marked by a line of iron posts. The second line begins at the West end of the first line of the East side of said farm road and runs South by said road and the line of iron posts a distance of 650 feet, more or less, to a point where the farm road turns at the East, and then continues on the extension of said farm road South an additional distance of 530 feet, more or less, to Parcel 4 hereinabove described.

Reference may be made to "Boundary Survey for Mary M. Waye and Pauline Garner, Baldwin, Maine" dated 12/28/1995, scale 1"=300', prepared by Lester Hammond, Jr. and duly recorded in Plan Book 196, Page 84 in the Cumberland County Registry, which shows most of the above described premises.

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Revised 10/22/2019

STORMWATER MANAGEMENT PLAN

Nature's Wilderness Campground Baldwin, Maine

The following stormwater management plan has been prepared for the Nature's Wilderness Campground project to evaluate stormwater runoff and erosion control. The project consists of 300 mixed use campsites, multiple proposed gravel roadways, and typical campground amenities.

Site Calculations

Total Property Area	Approximately 300 Ac
New Impervious Area	12.22 Ac (532,358 SF)
New Developed Area	20.96 Ac (913,053 SF)

Assumptions

RV/Cabin Site Impervious Area	600 SF
RV/Cabin Site Landscaped Area	400 SF
RV/Cabin Site Developed Area	1,000 SF
Tent Site Impervious Area	200 SF
Tent Site Landscaped Area	400 SF
Tent Site Total Developed Area	600 SF

Existing Conditions

The development parcel is located on the easterly side of Route 113 in Baldwin, approximately 6 miles to the west of Sebago Lake. The property is approximately 300 acres and is accessed by Marston Road. The site is bounded to the west by large residential lots along Senator Black Road, while undeveloped properties are adjacent to the north, east and south. The property is mostly wooded and undeveloped.

The development area is located within the Marston Pond watershed. Marston Pond then outlets to Dug Hill Brook, which ultimately terminates in the Saco River. None of these watersheds are listed as a protected watershed by the MDEP.

The project area features topography that contains significant hills and steep banks surrounding the water bodies on the site. Dug Hill Brook is located in the valley. The site generally falls from elevation 1032 feet to the west, and 714 feet to the east, to an elevation of 496 at the surface of Marston Pond. This results in an average grade of approximately 6% to the east of Dug hill Brook, and 18% to the west. The central portion development area has flatter slopes and low areas that contain wetland areas, Upper Pond and a stream channel that is the major inlet of Marston Pond.

Proposed Development

The applicant intends to open a campground on the property. He proposes to develop the area with a series of camp sites, a club house and a general store. There will be a mix of RV compatible sites, cabins, drive up tent sites & walk in tent sites. The campground will offer a wide variety of amenities to outdoor enthusiasts including swimming, fishing, hiking & mountain biking and use of miles of existing ATV trails. Our plans feature 300 camp sites. Each of the campsites will have one parking space, fire pit & picnic table. Underground electric will be provided to the majority of the camp sites. Septic systems will be located around the campground to service the sites. Cabins will have individual water and sewer connections, while the majority of the other sites will rely on regionally located bathroom facilities.

Modeling Assumptions

The onsite stormwater facilities were sized utilizing the USDA Soil Conservation Service (SCS) TR-20 Runoff Simulation Model, as contained in the HydroCAD computer software program (Version 9.0). Runoff curve numbers were determined for each direct watershed by measuring the area of each hydrologic soil group within each type of land cover. Weighted curve numbers were then calculated using curve numbers for various cover types and hydrologic soil groups, assuming "good" conditions as defined in U.S Soil Conservation Service (SCS) publications. Times of concentration and travel times were determined from site topographic maps in accordance with SCS procedures. A maximum length of 150 feet was used for sheet flow.

All of the watersheds' peak runoff rates were analyzed for the 2, 10, and 25-year frequency, 24-hour duration storm events. A Type III rainfall distribution was applied to these storms. The rainfall amounts for Cumberland County are as follows:

Storm Frequency Precipitation (in./24 hr)			
2-year 3.0			
10-year	4.3		
25-year	5.4		

Onsite Soils

The soils were delineated from Cumberland County medium intensity soil survey as shown on the Soil Data Viewer on the NRCS website (See attached map). The soil survey reports the watershed

soils as generally hydrologic group A, C, and D soils. All wetlands have been modeled as hydrologic group D soils.

Water Quantity (Flooding Standard)

Adjustments are proposed to the dam on Marston Pond to ensure that post-development flow rates for the 2, 10, and 25-year/24-hour design storm events will not exceed the pre-development flow conditions.

The following table summarizes the pre and post-development peak stormwater runoff rates for the 25-yr design storm event at the project site.

Table 1 - Stormwater Runoff Summary Table Pre-Development vs. Post-Development			
2-Yr/24Hr (cfs)			
Study Point #	Pre	Post	
1	229.0	215.0	
2	341.8	341.8	

As shown in the above table, the post-development peak flow rates for the 25-year/24-hour design storm do not exceed the pre-development flow rates.

Water Quality (BMP Standard)

The water quality requirements will be met by a series of forested buffers & the construction of a wet pond.

<u>New Impervious Area</u>: The project will result in the creation of approximately 532358 SF of impervious area in the form of gravel roadways, campsite parking, gravel RV pads, and building roofs. The combination of forested buffers will result in the treatment of approximately 521867 SF of impervious area resulting in a treatment percentage of $(521867/532358) \times 100\% = 98.03\%$.

Percentage of Treatment of the Impervious Area =98.03% (95% required)

<u>Project Developed Area:</u> The project will result in the creation of approximately 913054 SF of developed area. The combination of forested buffers will result in the treatment of approximately 872234 SF of the developed area resulting in a treatment percentage of $(616,179/669,979) \times 100\% = 95.5\%$

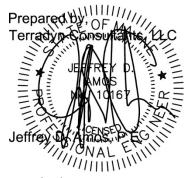
Percentage of Treatment of the Developed Area = 95.5% (80% required)

Forested Buffer with Level Lip Spreader Sizing

Level Spreader Sizing Calculations are attached.

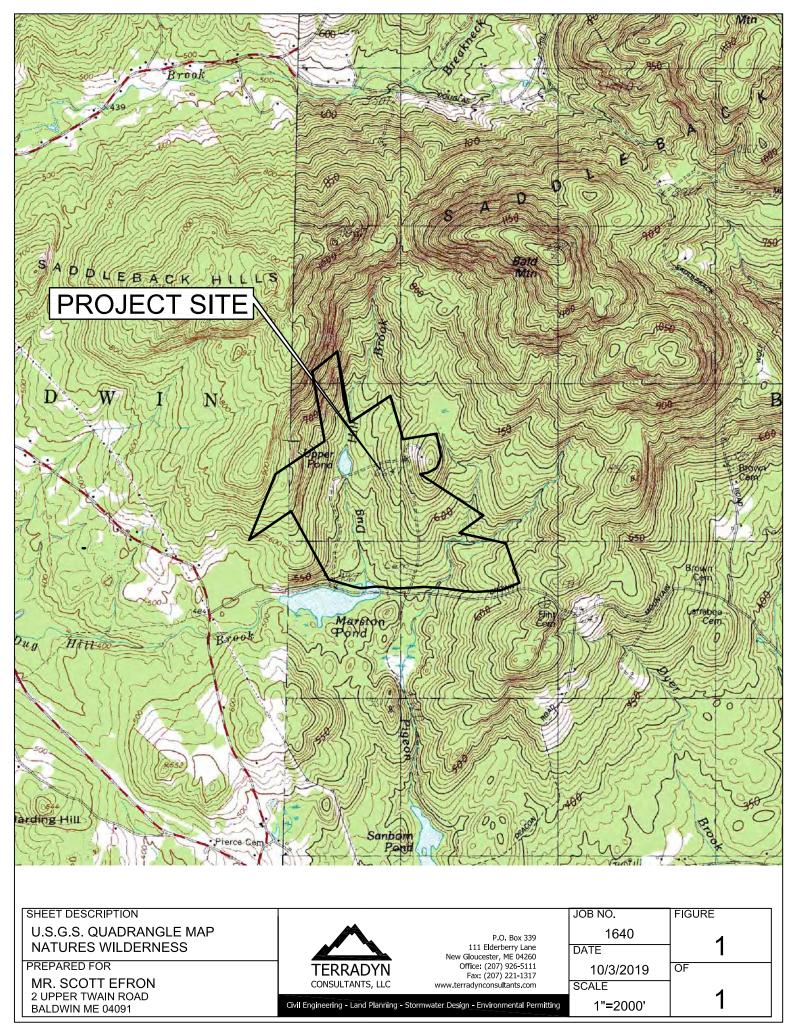
Summary

Based on the results of this evaluation, the proposed stormwater design is not expected to cause flooding, erosion or other significant adverse effects downstream of the site.



Attached:

U.S.G.S. Quadrangle Map NRCS Medium Intensity Soil Survey Water Quality Calculations Level Spreader Sizing





MAP LEGEND MAP INFORMATION The soil surveys that comprise your AOI were mapped at Area of Interest (AOI) С 1:24.000. Area of Interest (AOI) C/D Please rely on the bar scale on each map sheet for map Soils D measurements. Soil Rating Polygons Not rated or not available Α Source of Map: Natural Resources Conservation Service Web Soil Survey URL: **Water Features** A/D Coordinate System: Web Mercator (EPSG:3857) Streams and Canals В Maps from the Web Soil Survey are based on the Web Mercator Transportation projection, which preserves direction and shape but distorts B/D Rails --distance and area. A projection that preserves area, such as the С Albers equal-area conic projection, should be used if more Interstate Highways accurate calculations of distance or area are required. C/D **US Routes** This product is generated from the USDA-NRCS certified data as D Major Roads of the version date(s) listed below. Not rated or not available -Local Roads Soil Survey Area: Cumberland County and Part of Oxford Soil Rating Lines County, Maine Background Survey Area Data: Version 13, Sep 11, 2017 Aerial Photography Soil map units are labeled (as space allows) for map scales A/D 1:50,000 or larger. Date(s) aerial images were photographed: Apr 29, 2012—Jun B/D 26, 2016 The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background C/D imagery displayed on these maps. As a result, some minor D shifting of map unit boundaries may be evident. Not rated or not available **Soil Rating Points** Α A/D B/D

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
HgB	Hermon sandy loam, 3 to 8 percent slopes	A	14.7	0.9%
HgC	Hermon sandy loam, 8 to 15 percent slopes	А	20.4	1.3%
HgD	Hermon sandy loam, 15 to 25 percent slopes	А	52.9	3.3%
HhB	Hermon sandy loam, 0 to 8 percent slopes, very stony	A	0.0	0.0%
HhC	Hermon sandy loam, 8 to 15 percent slopes, very stony	A	242.0	15.0%
HhD	Hermon sandy loam, 15 to 35 percent slopes, very stony	A	261.3	16.2%
HkE	Hermon sandy loam, 20 to 60 percent slopes, extremely stony	A	1.7	0.1%
HrB	Lyman-Tunbridge complex, 0 to 8 percent slopes, rocky	D	0.0	0.0%
HrC	Lyman-Tunbridge complex, 8 to 15 percent slopes, rocky	D	74.4	4.6%
HrD	Lyman-Tunbridge complex, 15 to 35 percent slopes, rocky	D	4.2	0.3%
HsC	Lyman-Abram complex, 8 to 15 percent slopes, very rocky	D	71.2	4.4%
HsE	Lyman-Abram complex, 15 to 35 percent slopes, very rocky	D	130.4	8.1%
PbC	Paxton fine sandy loam, 8 to 15 percent slopes	С	82.9	5.1%
PfC	Paxton very stony fine sandy loam, 8 to 15 percent slopes	С	104.4	6.5%
PfD	Paxton very stony fine sandy loam, 15 to 25 percent slopes	С	119.2	7.4%
PkB	Peru fine sandy loam, 3 to 8 percent slopes	C/D	49.4	3.1%
PIB	Peru fine sandy loam, 0 to 8 percent slopes, very stony	C/D	105.3	6.5%

		I		
Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
PIC	Peru fine sandy loam, 8 to 15 percent slopes, very stony	C/D	26.5	1.6%
RbA	Ridgebury fine sandy loam, 0 to 3 percent slopes	C/D	2.5	0.2%
RgA	Ridgebury very stony fine sandy loam, 0 to 3 percent slopes	C/D	5.9	0.4%
Sp	Sebago mucky peat	A/D	52.1	3.2%
W	Water		19.9	1.2%
Wa	Walpole fine sandy loam	A/D	0.3	0.0%
WrB	Woodbridge fine sandy loam, 0 to 8 percent slopes	С	23.5	1.5%
WrC	Woodbridge fine sandy loam, 8 to 15 percent slopes	С	37.5	2.3%
WsB	Woodbridge very stony fine sandy loam, 0 to 8 percent slopes	С	30.8	1.9%
WsC	Woodbridge very stony fine sandy loam, 8 to 15 percent slopes	С	78.2	4.9%
Totals for Area of Inter	rest		1,611.5	100.0%

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

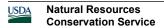
If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher



BMP SIZING WORKSHEET 1640 - NATURES WILDERNESS CAMPGROUND

Level Spreader Sizing Calculations:

LS-D1			Slope: 9-15%
Impervious Area	SF		Length: 100'
Road Impervious Area	3715.11		
RV Site Impervious Area	1800		
Pullout Impervious Area	650		
Bathroom impervious Area	0		
SUM	6165.11		
Area (Ac)	0.142		
Landscaped Area	SF		
Road Landscaped Area	2063.95		
RV Landscaped Area	800		
SUM	1 2863.95		
Area (Ac)	0.066		
Chandand Cining (FT/A -)	luan amilar:	l a mala a a m c -l	
Standard Sizing (FT/Ac)	Impervious	•	
	120	_	1
Berm Length	19.35	30'	

LS-D2			Slope: 9-15%
Impervious Area	SF		Length: 100'
Road Impervious Area	4198.05		
RV Site Impervious Area	3000		
Pullout Impervious Area	650		
Bathroom impervious Area	600		
SUM	8448.05		
Area (Ac)	0.194		
Landscaped Area	SF		
Road Landscaped Area	4664.5		
RV Landscaped Area	2000		
SUM	6664.5		
Area (Ac)	0.153		
Standard Sizing (FT/Ac)	Impervious	Landscaped	
	120	36	_
Berm Length	28.78	40'	

LS-D3			Slope: 9-15%
Impervious Area	SF		Length: 100'
Road Impervious Area	2250		
RV Site Impervious Area	1800		
Pullout Impervious Area	0		
Bathroom impervious Area	0		
SUM	4050		
Area (Ac)	0.093		
Landscaped Area	SF		
Road Landscaped Area	1250		
RV Landscaped Area	1200		
SUM	2450		
Area (Ac)	0.056		
Standard Sizing (FT/Ac)	Impervious	•	
	120	36	
Berm Length	13.18	20'	

LS-D4			Slope: 9-15%
Impervious Area	SF		Length: 150'
Road Impervious Area	4848.57		
RV Site Impervious Area	3000		
Pullout Impervious Area	0		
Bathroom impervious Area	600		
SUM	8448.57		
Area (Ac)	0.194		
Landscaped Area	SF		
Road Landscaped Area	2693.65		
RV Landscaped Area	2800		
SUM	5493.65		
Area (Ac)	0.126		
Standard Sizing (FT/Ac)	Impervious 90	Landscaped 30	
Berm Length	21.24	30'	

LS-D5		Slope: 9-15%
Impervious Area	SF	Length: 75'
Road Impervious Area	3150	
RV Site Impervious Area	1800	
Pullout Impervious Area	650	
Bathroom impervious Area	0	

SUI Area (A		5600 0.129		
Landscaped Area	SF			
Road Landscaped Area		1750		
RV Landscaped Area		800		
SUI	M	2550		
Area (A	c)	0.059		
Standard Sizing (FT/Ac)	Imperv	ious	Landscaped	
		150	42	
Berm Length		21.74	30'	

LS-D6			Slope: 9%-15%
Impervious Area	SF		Length: 75'
Road Impervious Area	1215		
RV Site Impervious Area	1800		
Pullout Impervious Area	0		
Bathroom impervious Area	0		
SUM	3015		
Area (Ac)	0.069		
Landscaped Area	SF		
Road Landscaped Area	675		
RV Landscaped Area	1200		
SUM	1875		
Area (Ac)	0.043		
Standard Sizing (FT/Ac)	Impervious	Landscaped	
	150	42	_
Berm Length	12.19	20'	

LS-D7			Slope: 9%-15%
Impervious Area	SF		Length: 100'
Road Impervious Area		3870	
RV Site Impervious Area		3600	
Pullout Impervious Area		650	
Bathroom impervious Area		0	
SUM	l	8120	
Area (Ac))	0.186	
Landscaped Area	SF		
Road Landscaped Area		2150	
RV Landscaped Area		2400	

SUM Area (Ac)	4550 0.104		
Standard Sizing (FT/Ac)	Impervious	•	
	120	36	
Berm Length	26.13	40'	

LS-D8			Slope: 9%-15%
Impervious Area	SF		Length: 75'
Road Impervious Area	3375		
RV Site Impervious Area	3600		
Pullout Impervious Area	650		
Bathroom impervious Area	0		
SUM	7625		
Area (Ac)	0.175		
Landscaped Area	SF		
Road Landscaped Area	1875		
RV Landscaped Area	2400		
SUM	4275		
Area (Ac)	0.098		
Standard Sizing (FT/Ac)	Impervious	Landscaped	
	150	42	_
Berm Length	30.38	40'	

LS-D9			Slope: 0%-8%
Impervious Area	SF		Length: 100'
Road Impervious Area	5850		
RV Site Impervious Area	4200		
Pullout Impervious Area	1300		
Bathroom impervious Area	0		
SUM	11350		
Area (Ac)	0.261		
Landscaped Area	SF		
Road Landscaped Area	3250		
RV Landscaped Area	2800		
SUM	6050		
Area (Ac)	0.139		
Standard Sizing (FT/Ac)	Impervious	Landscaped	
	100	30	_
Berm Length	30.22	40'	

LS-D10			Slope: 0%-8%
Impervious Area	SF		Length: 150'
Road Impervious Area	21766.86		
RV Site Impervious Area	9000		
Pullout Impervious Area	650		
Bathroom impervious Area	600		
SUM	32016.86		
Area (Ac)	0.735		
Landscaped Area	SF		
Road Landscaped Area	12092.7		
RV Landscaped Area	5600		
SUM	17692.7		
Area (Ac)	0.406		
Standard Sizing (FT/Ac)	Impervious	Landscaped	
	75	25	
Berm Length	65.28	40' (2)	

LS-D11			Slope: 9-15%
Impervious Area	SF		Length: 75'
Road Impervious Area	8831.25		
RV Site Impervious Area	3600		
Pullout Impervious Area	650		
Bathroom impervious Area	0		
SUM	13081.25		
Area (Ac)	0.300		
Landscaped Area	SF		
Road Landscaped Area	4906.25		
RV Landscaped Area	2400		
SUM	7306.25		
Area (Ac)	0.168		
Standard Sizing (FT/Ac)	Impervious	Landscaped	
	150	42	
Berm Length	52.09	35' (2)	

LS-T1			Slope: 9%-15%
Impervious Area	SF		Length: 150'
Road Impervious Area		2925	
RV Site Impervious Area		1800	

Pullout Impervious Area	0		
Bathroom impervious Area	600		
SUM	5325		
Area (Ac)	0.122		
Landscaped Area	SF		
Road Landscaped Area	1625		
RV Landscaped Area	1200		
SUM	2825		
Area (Ac)	0.065		
Standard Sizing (FT/Ac)	Impervious	Landscaped	
	90	30	_
Berm Length	12.95	20'	

LS-T2			Slope: 0%-8%
Impervious Area	SF		Length: 150'
Road Impervious Area	3600		
RV Site Impervious Area	1800		
Pullout Impervious Area	650		
Bathroom impervious Area	0		
SUM	6050		
Area (Ac)	0.139		
Landscaped Area	SF		
Road Landscaped Area	2000		
RV Landscaped Area	1200		
SUM	3200		
Area (Ac)	0.073		
Standard Sizing (FT/Ac)	Impervious	Landscaped	
	75	25	
Berm Length	12.25	20'	

LS-S1			Slope: 9%-15%
Impervious Area	SF		Length: 75'
Road Impervious Area		1575	
RV Site Impervious Area		2400	
Pullout Impervious Area		650	
Bathroom impervious Area		0	
SUN	/	4625	
Area (Ad	:)	0.106	
Landscaped Area	SF		

Road Landscaped Area	875	
RV Landscaped Area	1600	
SUM	2475	
Area (Ac	0.057	
Standard Sizing (FT/Ac)	Impervious Landscaped 150 42	
Berm Length	18.31 30'	

LS-S2			Slope: 9%-15%
Impervious Area	SF		Length: 150'
Road Impervious Area	14355		
RV Site Impervious Area	7800		
Pullout Impervious Area	650		
Bathroom impervious Area	600		
SUM	23405		
Area (Ac)	0.537		
Landscaped Area	SF		
Road Landscaped Area	7975		
RV Landscaped Area	5200		
SUM	13175		
Area (Ac)	0.302		
Standard Sizing (FT/Ac)	Impervious	Landscaped	
	90	30	_
Berm Length	57.43	2*35	

LS-E1		Slope: 9-15%
Impervious Area	SF	Length: 100'
Road Impervious Area	9084.78	3
RV Site Impervious Area	4200)
Pullout Impervious Area	650)
Bathroom impervious Area	0)
SUM	13934.78	3
Area (Ac)	0.320)
Landscaped Area	SF	
Road Landscaped Area	5047.1	L
RV Landscaped Area	2800)
SUM	7847.1	L
Area (Ac)	0.180)
Standard Sizing (FT/Ac)	Impervious	Landscaped

	120	36
Berm Length	44.87 2*30	

LS-E2			Slope: 0-8%
Impervious Area	SF		Length: 100'
Road Impervious Area	1530		
RV Site Impervious Area	1200		
Pullout Impervious Area	0		
Bathroom impervious Area	0		
SUM	2730		
Area (Ac)	0.063		
Landscaped Area	SF		
Road Landscaped Area	850		
RV Landscaped Area	800		
SUM	1650		
Area (Ac)	0.038		
Standard Sizing (FT/Ac)	Impervious	Landscaped	
	100	30	
Berm Length	7.40	20	

LS-E3			Slope: 9-15%
Impervious Area	SF		Length: 100'
Road Impervious Area	3330		
RV Site Impervious Area	2400		
Pullout Impervious Area	0		
Bathroom impervious Area	0		
SUM	5730		
Area (Ac)	0.132		
Landscaped Area	SF		
Road Landscaped Area	1850		
RV Landscaped Area	1600		
SUM	3450		
Area (Ac)	0.079		
Standard Sizing (FT/Ac)	Impervious	Landscaped	
	120	36	_
Berm Length	18.64	30'	

LS-E4		Slope: 0-8%
Impervious Area	SF	Length: 100'

Road Impervious Area	4950		
RV Site Impervious Area	3000		
Pullout Impervious Area	650		
Bathroom impervious Area	0		
SUM	8600		
Area (Ac)	0.197		
Landscaped Area	SF		
Road Landscaped Area	2750		
RV Landscaped Area	2000		
SUM	4750		
Area (Ac)	0.109		
Standard Sizing (FT/Ac)	Impervious	·	
	100	30	
Berm Length	23.01	30'	

LS-E5			Slope: 9%-15%
Impervious Area	SF		Length: 150'
Road Impervious Area	3150		
RV Site Impervious Area	1800		
Pullout Impervious Area	0		
Bathroom impervious Area	600		
SUM	5550		
Area (Ac)	0.127		
Landscaped Area	SF		
Road Landscaped Area	1750		
RV Landscaped Area	1200		
SUM	2950		
Area (Ac)	0.068		
Standard Sizing (FT/Ac)	Impervious	Landscaped	
	90	30	
Berm Length	13.50	20'	

LS-E6		Slope: 9%-15%
Impervious Area	SF	Length: 150'
Road Impervious Area	2700	
RV Site Impervious Area	1800	
Pullout Impervious Area	650	
Bathroom impervious Area	0	
SUM	5150	
Area (Ac)	0.118	

Landscaped Area	SF		
Road Landscaped Area	1500		
RV Landscaped Area	1200		
SUM	2700		
Area (Ac)	0.062		
Standard Sizing (FT/Ac)	Impervious	Landscaped	
	90	30	
Berm Length	12.50	20'	

LS-E7			Slope: 9%-15%
Impervious Area	SF		Length: 150'
Road Impervious Area	4140		
RV Site Impervious Area	1800		
Pullout Impervious Area	650		
Bathroom impervious Area	0		
SUM	6590		
Area (Ac)	0.151		
Landscaned Area	SF		
Landscaped Area			
Road Landscaped Area	2300		
RV Landscaped Area	1200		
SUM	3500		
Area (Ac)	0.080		
Standard Sizing (FT/Ac)	Impervious	Landscaped	
	90	30	_
Berm Length	16.03	20'	

LS-E8			Slope: 9%-15%
Impervious Area	SF		Length: 100'
Road Impervious Area	31	50	· ·
RV Site Impervious Area	30	00	
Pullout Impervious Area		0	
Bathroom impervious Area		0	
SUM	61	50	
Area (Ac)	0.1	41	
Landscaped Area	SF		
Road Landscaped Area	17	50	
RV Landscaped Area	20	00	
SUM	37	50	
Area (Ac)	0.0	36	

Standard Sizing (FT/Ac)	Impervious Landscaped
	120 36
Berm Length	20.04 30'

LS-E9			Slope: 0%-8%
Impervious Area	SF		Length: 150'
Road Impervious Area	4050		
RV Site Impervious Area	1800		
Pullout Impervious Area	650		
Bathroom impervious Area	600		
SUM	7100		
Area (Ac)	0.163		
Landscaped Area	SF		
Road Landscaped Area	2250		
RV Landscaped Area	1200		
SUM	3450		
Area (Ac)	0.079		
Standard Sizing (FT/Ac)	Impervious 75	Landscaped 25	
Berm Length	14.20	20'	

LS-E10			Slope: 0%-8%
Impervious Area	SF		Length: 75'
Road Impervious Area	9270		
RV Site Impervious Area	6000		
Pullout Impervious Area	650		
Bathroom impervious Area	0		
SUM	15920		
Area (Ac)	0.365		
Landscaped Area	SF		
Road Landscaped Area	5150		
RV Landscaped Area	4000		
SUM	9150		
Area (Ac)	0.210		
Standard Sizing (FT/Ac)	Impervious	Landscaped	
	125	35	
Berm Length	53.04	35' (2)	

LS-B1			Slope: 0%-8%
Impervious Area	SF		Length: 150'
Road Impervious Area	19071		
RV Site Impervious Area	12600		
Pullout Impervious Area	1300		
Bathroom impervious Area	0		
SUM	32971		
Area (Ac)	0.757		
Landscaped Area	SF		
Road Landscaped Area	10585		
RV Landscaped Area	8400		
SUM	18985		
Area (Ac)	0.436		
Standard Sizing (FT/Ac)	Impervious 75	Landscaped 25	
Berm Length	67.66	40' (2)	

LS-B2			Slope: 0%-8%
Impervious Area	SF		Length: 75'
Road Impervious Area	900		
RV Site Impervious Area	0		
Pullout Impervious Area	0		
Bathroom impervious Area	600		
SUM	1 1500		
Area (Ac	0.034		
Landscaped Area	SF		
Road Landscaped Area	500		
RV Landscaped Area	0		
SUM	1 500		
Area (Ac	0.011		
Standard Sizing (FT/Ac)	Impervious	•	
	125		
Berm Length	4.71	20'	

Level Spreader G1		Slope: 9%-15%
Impervious Area	SF	Length: 75'
Road Impervious Area	4500	
RV Site Impervious Area	3000	
Pullout Impervious Area	650	
Bathroom impervious Area	0	

SUN Area (Ac			
Landscaped Area	SF		
Road Landscaped Area	2500		
RV Landscaped Area	2000		
SUM	1 4500		
Area (Ac) 0.103		
Standard Sizing (FT/Ac)	Impervious	Landscaped	
	150	42	
Berm Length	32.40	40'	

LS-G2			Slope: 0%-8%
Impervious Area	SF		Length: 75'
Road Impervious Area	6761.25		
RV Site Impervious Area	4800		
Pullout Impervious Area	650		
Bathroom impervious Area	0		
SUM	12211.25		
Area (Ac)	0.280		
Landscaped Area	SF		
Road Landscaped Area	3756.25		
RV Landscaped Area	3200		
SUM	6956.25		
Area (Ac)	0.160		
Standard Sizing (FT/Ac)	Impervious	Landscaped	
	125	35	
Berm Length	40.63	50	

LS-C1			Slope: 0%-8%
Impervious Area	SF		Length: 75'
Road Impervious Area		2394	
RV Site Impervious Area		0	
Pullout Impervious Area		650	
Bathroom impervious Area		0	
SUM	l	3044	
Area (Ac)	0.070	
Landscaped Area	SF		
Road Landscaped Area		1330	
RV Landscaped Area		0	

SUM Area (Ac)	1330 0.031		
Standard Sizing (FT/Ac)	Impervious	Landscaped 35	
	123	33	-
Berm Length	9.80	20'	

Sizing Assumptions:

	RV/Cabin	Tent	Pullout	Bathroom
Impervious Area (SF)	600	200	650	600
Lanscaped Area (SF)	400	400		

Road Width with shoulders (FT	.)
1	18

Road Landscaped each side (FT)
5

1640 - NATURES WILDERNESS CAMPGROUND WATER QUALITY CALCULATIONS

	SF	AC
New Impervious Area (SF) =	532358.08	12.22
New Landscaped Area (SF)=	380695.85	8.74
Developed Area (SF) =	913053.93	20.96

	FT
Existing	
Impervious Lane	
Width	5
Proposed	
Impervious Lane	
Width	9
Landscaped Width	
Per Lane	5

	FT
Existing Impervious Lane Width	
Upper Twain Road (Wide Lower	
Section)	7
Existing Impervious Lane Width	
Upper Twain Road (Narrow Upper	
Section)	5

								Incremental	Incremental	
Matarahad	Area/Lot #	New Impervious Area (SF)	Total Impervious Area Treated (SF)	New Landscaped Area	Total Landscaped Area Treated (SF)	Developed Area (SF)	Total Developed Area Treated (SF)	Treatment % (Impervious)	Treatment % (Developed)	BMP
Watershed	Alea/Lot#	Alea (SI)	Area Treated (SF)	Alea	Area Treated (SF)	(31)	Area Treated (St.)	(impervious)	(Developed)	BIMP
	Deacon Road									
	ST: 0+00 - ST: 3+16.45									
S1	LEFT SIDE	1266	2848	1582	1582	2848	4430	0.53%	0.49%	Level Spreader D1
	Deacon Road									
S3	ST: 0+00 - ST: 0+35.13 RIGHT SIDE	141	316	176	176	316	492	0.06%	0.05%	Level Spreader D1
33	Deacon Road	141	310	170	170	310	492	0.06%	0.05%	Level Spreader D1
	ST: 0+35.13 - ST: 3+16.45									
S3	RIGHT SIDE	1125.28	2531.88	1406.6	1406.6	2531.88	3938.48	0.48%	0.43%	Level Spreader D2
	Deacon Road									
	ST: 3+16.45 - ST: 5+35.04									
S3	LEFT SIDE	874.36	1967.31	1092.95	1092.95	1967.31	3060.26	0.37%	0.34%	Level Spreader D3
	Deacon Road ST: 3+16.45 - ST: 5+05.73									
S3	RIGHT SIDE	757.12	1703.52	946.4	946.4	1703.52	2649.92	0.32%	0.29%	Forested Buffer FB-D1
	Deacon Road			* 1 * 1 * 1				***=/*	V.=V.	
	ST: 5+05.73 - ST: 5+35.04									
S3	RIGHT SIDE	117.24	263.79	146.55	146.55	263.79	410.34	0.05%	0.04%	Level Spreader D3
	Deacon Road ST: 5+35.04 - ST: 8+10.00									
S3	LEFT SIDE	1099.84	2474.64	1374.8	1374.8	2474.64	3849.44	0.46%	0.42%	Level Spreader D4
- 55	Deacon Road	1000.01	2474.04	107 1.0	107 1.0	2171.01	0010.11	0.4070	0.4270	Edver opredder 24
	ST: 5+35.04 - ST: 8+10.00									
S3	RIGHT SIDE	1099.84	2474.64	1374.8	1374.8	2474.64	3849.44	0.46%	0.42%	Forested Buffer FB-D2
	Deacon Road									
00	ST: 8+10.00 - ST: 10+85.00 LEFT SIDE	4400	2475	1375	1375	2475	2050	0.400/	0.400/	Laval Carandas DE
S3	Deacon Road	1100	2475	1375	1375	2475	3850	0.46%	0.42%	Level Spreader D5
	ST: 8+10.00 - ST: 10+74.22									
S3	RIGHT SIDE	1056.88	2377.98	1321.1	1321.1	2377.98	3699.08	0.45%	0.41%	Level Spreader D4
	Deacon Road									·
	ST: 10+74.22 - ST: 11+50.00									
S3	RIGHT SIDE	303.12	682.02	378.9	378.9	682.02	1060.92	0.13%	0.12%	Level Spreader D5
	Deacon Road ST: 10+85.00 - ST: 14+00.00									
S3	LEFT SIDE	1260	2835	1575	1575	2835	4410	0.53%	0.48%	Level Spreader D7
	Deacon Road	.200	2000		.0.0	2000		0.0070	0.1070	20.0. 0p.0000. 2.
	ST: 11+50.00 - ST: 12+84.62									
S3	RIGHT SIDE	538.48	1211.58	673.1	673.1	1211.58	1884.68	0.23%	0.21%	Level Spreader D6
	Deacon Road									
S3	ST: 12+84.62 - ST: 14+00.00 RIGHT SIDE	461.52	1038.42	676.9	676.9	1138.42	1715.32	0.20%	0.19%	Loyal Spraador D7
১১	מוטחו טוטב	401.52	1038.42	0/0.9	0/0.9	1138.42	1715.32	0.20%	0.19%	Level Spreader D7

	Deacon Road									
	ST: 14+00.00 - ST: 17+75.00									
S5	LEFT SIDE	1500	3375	1875	1875	3375	5250	0.63%	0.57%	Level Spreader D8
	Deacon Road									
	ST: 14+00.00 - ST: 25+50.27									
S5	RIGHT SIDE	5401.08	12152.43	6751.35	6751.35	12152.43	18903.78	2.28%	2.07%	Level Spreader D10
	Deacon Road									
	ST: 17+75.00 - ST: 24+25.00									
S5	LEFT SIDE	2600	5850	3250	3250	5850	9100	1.10%	1.00%	Level Spreader D9
	Deacon Road									·
	ST: 24+25.00 - ST: 25+37.13									
S5	LEFT SIDE	448.52	1009.17	560.65	560.65	1009.17	1569.82	0.19%	0.17%	Level Spreader D10
	Deacon Road									·
	ST: 24+25.00 - ST: 27+20.35									
S5	LEFT SIDE	1181.4	2658.15	1476.75	1476.75	2658.15	4134.9	0.50%	0.45%	Forested Buffer FB-D3
	Deacon Road									
	ST: 25+50.27 - ST: 27+65.00									
S5	RIGHT SIDE	858.92	1932.57	1073.65	1073.65	1932.57	3006.22	0.36%	0.33%	Level Spreader D11
	Deacon Road								0.007.0	
I	ST: 27+20.35 - ST: 27+65.00									
S5	LEFT SIDE	178.6	401.85	223.25	223.25	401.85	625.1	0.08%	0.07%	Level Spreader D11
- 55	Deacon Road	170.0	401.00	220.20	220.20	-101.00	0£0.1	0.0070	0.0170	20101 Optoduct DTT
I	ST: 27+65.00 - ST: 29+70.61									
S3	LEFT SIDE	822.44	0	1028.05	0	1850.49	0	0.00%	0.00%	No Treatment
- 33	Deacon Road	022.77		1020.03	-	1000.40	,	0.0070	0.0070	140 Heatinent
	ST: 27+65.00 - ST: 29+70.61									
S3	RIGHT SIDE	822.44	0	1028.05	0	1850.49	0	0.00%	0.00%	No Treatment
- 55		022.44	U	1026.05	U	1000.49	U	0.00%	0.00%	No freatment
	Efron Way									
00	ST: 0+00.00 - ST: 2+30.13	0074.47	0074.47	4450.05	4450.05	0004.00	0004.00	0.000/	0.050/	1 1 0 1 54
S3	LEFT SIDE	2071.17	2071.17	1150.65	1150.65	3221.82	3221.82	0.39%	0.35%	Level Spreader E1
	Efron Way									
0.0	ST: 0+00.00 - ST: 2+30.13	0074.47	0074.47	4450.05	4450.05	2004.00	2004.00	0.000/	0.050/	
S3	RIGHT SIDE	2071.17	2071.17	1150.65	1150.65	3221.82	3221.82	0.39%	0.35%	Level Spreader E1
	Efron Way									
	ST: 2+30.13 - ST: 5+00.00							,		
S3	LEFT SIDE	2428.83	2428.83	1349.35	1349.35	3778.18	3778.18	0.46%	0.41%	Level Spreader E3
	Efron Way									
	ST: 2+30.13 - ST: 4+00.00									
S3	RIGHT SIDE	1528.83	1528.83	849.35	849.35	2378.18	2378.18	0.29%	0.26%	Level Spreader E2
	Efron Way									
	ST: 4+00.00 - ST: 5+00.00									
S3	RIGHT SIDE	900	900	500	500	1400	1400	0.17%	0.15%	Level Spreader E3
I	Efron Way									
I	ST: 5+00.00 - ST: 7+50.00									
S3	LEFT SIDE	2250	2250	1250	1250	3500	3500	0.42%	0.38%	Level Spreader E4
	Efron Way									
I	ST: 5+00.00 - ST: 7+50.00									
S3	RIGHT SIDE	2250	2250	1250	1250	3500	3500	0.42%	0.38%	Level Spreader E4
	Efron Way							-		
I	ST: 7+50.00 - ST: 10+00.00									
S3	LEFT SIDE	2250	2250	1250	1250	3500	3500	0.42%	0.38%	Level Spreader E5
	Efron Way									
I	ST: 7+50.00 - ST: 10+00.00									
S3	RIGHT SIDE	2250	2250	1250	1250	3500	3500	0.42%	0.38%	Forested Buffer FB-E1
	Efron Way	_								
I	ST: 10+00.00 - ST: 12+00.00									
S3	LEFT SIDE	1800	1800	1000	1000	2800	2800	0.34%	0.31%	Level Spreader E6
	Efron Way									·
	ST: 10+00.00 - ST: 11+00.00									
S3	RIGHT SIDE	900	900	500	500	1400	1400	0.17%	0.15%	Level Spreader E5

			1	ı	ı	ı	ı	ı	ı	1
	Efron Way									
	ST: 11+00.00 - ST: 12+00.00									
S3	RIGHT SIDE	900	900	500	500	1400	1400	0.17%	0.15%	Level Spreader E6
	Efron Way									
	ST: 12+00.00 - ST: 12+40.00									
S3	LEFT SIDE	360	0	200	0	560	0	0.00%	0.00%	No Treatment
	Efron Way									
	ST: 12+00.00 - ST: 13+00.00									
S3	RIGHT SIDE	900	0	500	0	1400	0	0.00%	0.00%	No Treatment
	Efron Way									
	ST: 12+40.00 - ST: 15+00.00									
S3	LEFT SIDE	2340	2340	1300	1300	3640	3640	0.44%	0.40%	Level Spreader E7
	Efron Way									
	ST: 13+00.00 - ST: 15+00.00									
S3	RIGHT SIDE	1800	1800	1000	1000	2800	2800	0.34%	0.31%	Level Spreader E7
	Efron Way									
0.0	ST: 15+00.00 - ST: 16+75.00			.==	.==	0.450	0.450	2 222/	0.070/	
S3	LEFT SIDE	1575	1575	875	875	2450	2450	0.30%	0.27%	Level Spreader E8
	Efron Way									
S3	ST: 15+00.00 - ST: 16+75.00 RIGHT SIDE	1575	1575	875	875	2450	2450	0.30%	0.27%	Lovel Careedee CO
53		15/5	15/5	8/5	8/5	2450	2450	0.30%	0.27%	Level Spreader E8
	Efron Way ST: 16+75.00 - ST: 19+00.00									
S3	LEFT SIDE	2025	2025	1105	1105	2150	2150	0.38%	0.34%	Loyal Carandar FO
- 33		2025	2025	1125	1125	3150	3150	0.36%	0.34%	Level Spreader E9
	Efron Way ST: 16+75.00 - ST: 19+00.00									
S3	RIGHT SIDE	2025	2025	1125	1125	3150	3150	0.38%	0.34%	Level Spreader E9
- 33	Efron Way	2025	2025	1125	1125	3130	3150	0.36%	0.34 //	Level Spreader E9
	ST: 19+00.00 - ST: 19+90.00									
S3	LEFT SIDE	810	0	450	0	1260	0	0.00%	0.00%	No Treatment
- 00	Efron Way	010	<u> </u>	430		1200		0.0070	0.0070	140 Treatment
	ST: 19+00.00 - ST: 19+33.59									
S3	RIGHT SIDE	302.31	0	167.95	0	470.26	0	0.00%	0.00%	No Treatment
- 00	Efron Way	002.01	, in the second	107.00		170.20	- v	0.0070	0.0070	140 Treatment
	ST: 19+33.59 - ST: 19+70.80									
S3	RIGHT SIDE	334.89	334.89	186.05	186.05	520.94	520.94	0.06%	0.06%	Level Spreader C1
	Efron Way							0.007,0	0.00,0	
	ST: 19+90.00 - ST: 23+60.00									
S3	LEFT SIDE	3330	3330	1850	1850	5180	5180	0.63%	0.57%	Level Spreader B1
	Efron Way									,
	ST: 19+70.80 - ST: 23+60.00									
S3	RIGHT SIDE	3502.8	3502.8	1946	1946	5448.8	5448.8	0.66%	0.60%	Level Spreader B1
	Efron Way									
	ST: 23+60.00 - ST: 26+75.00		1							
S3	LEFT SIDE	2835	2835	1575	1575	4410	4410	0.53%	0.48%	Level Spreader E10
	Efron Way									
	ST: 23+60.00 - ST: 26+75.00		1							
S3	RIGHT SIDE	2835	2835	1575	1575	4410	4410	0.53%	0.48%	Level Spreader E10
I	Efron Way		1							
I .	ST: 26+75.00 - ST: 29+41.74		1							
S5	LEFT SIDE	2400.66	2400.66	1333.7	1333.7	3734.36	3734.36	0.45%	0.41%	Level Spreader D10
	Efron Way									
	ST: 26+75.00 - ST: 29+41.74	0.405		1055 -	4055 -			0 (==)		
S5	RIGHT SIDE	2400.66	2400.66	1333.7	1333.7	3734.36	3734.36	0.45%	0.41%	Level Spreader D11
	Scott's Loop		1							
66	ST: 0+00.00 - ST: 2+75.00	0.4==	0.7==	46==	40==	0070	00-0	0.4004	0.400/	110 1.01
S3	LEFT SIDE	2475	2475	1375	1375	3850	3850	0.46%	0.42%	Level Spreader S1
	Scott's Loop									
60	ST: 0+00.00 - ST: 9+35.23 RIGHT SIDE	0447.07	0447.07	4670 45	4670 45	12002.22	12002.22	1.500/	1.400/	Lovel Careedee C4
S3	KIGHT SIDE	8417.07	8417.07	4676.15	4676.15	13093.22	13093.22	1.58%	1.43%	Level Spreader S1

			,	,	•	•			•	
	Scott's Loop									
	ST: 2+75.00 - ST: 4+52.09									
S3	LEFT SIDE	1593.81	1593.81	885.45	885.45	2479.26	2479.26	0.30%	0.27%	Level Spreader S2
	Scott's Loop									
	ST: 4+52.09 - ST: 9+35.23									
S3	INNER SIDE OF LOOP	4348.26	4348.26	2415.7	2415.7	6763.96	6763.96	0.82%	0.74%	Level Spreader S2
	Gary's Loop									
	ST: 0+00.00 - ST: 2+00.00									
S5	LEFT SIDE	1800	1800	1000	1000	2800	2800	0.34%	0.31%	Level Spreader D10
	Gary's Loop									
	ST: 0+00.00 - ST: 2+00.00									
S5	RIGHT SIDE	1800	1800	1000	1000	2800	2800	0.34%	0.31%	Level Spreader D10
	Gary's Loop									
	ST: 2+00.00 - ST: 4+50.00									
S3	LEFT SIDE	2250	2250	1250	1250	3500	3500	0.42%	0.38%	Level Spreader G1
	Gary's Loop									·
	ST: 2+00.00 - ST: 4+50.00									
S3	RIGHT SIDE	2250	2250	1250	1250	3500	3500	0.42%	0.38%	Level Spreader G1
	Gary's Loop									·
	ST: 4+50.00 - ST: 9+10.97									
S3	LEFT SIDE	4148.73	4148.73	2304.85	2304.85	6453.58	6453.58	0.78%	0.71%	Level Spreader G2
	Gary's Loop					2.20.00	2.20.00	2070		
	ST: 4+50.00 - ST: 9+10.97									
S3	RIGHT SIDE	4148.73	4148.73	2304.85	2304.85	6453.58	6453.58	0.78%	0.71%	Level Spreader G2
- 55	Gary's Loop	- 1-10.70	4140.70	2004.00	2007.00	0-100.00	0-100.00	0.1070	V.7 1 /0	Love oproduct 02
	ST: 9+10.97 - ST: 12+88.40									
S5	LEFT SIDE	3396.87	3396.87	1887.15	1887.15	5284.02	5284.02	0.64%	0.58%	Level Spreader D10
35		3390.07	3390.07	1007.13	1007.13	3204.02	3204.02	0.04 //	0.5676	Level Spleader D10
	Gary's Loop ST: 9+10.97 - ST: 11+50.00									
S3	RIGHT SIDE	2151.27	2151.27	1195.15	1195.15	3346.42	3346.42	0.40%	0.37%	Loyal Caroadar E10
- 55		2131.21	2151.27	1195.15	1195.15	3340.42	3340.42	0.40%	0.37%	Level Spreader E10
	Gary's Loop									
05	ST: 11+50.00 - ST: 12+88.40	4045.0	4045.0	000	000	4007.0	4007.0	0.000/	0.040/	Level Occasion D40
S5	RIGHT SIDE	1245.6	1245.6	692	692	1937.6	1937.6	0.23%	0.21%	Level Spreader D10
	Brown Road									
0.0	ST: 0+00.00 - ST: 4+50.00	40=0	4050	2252	2252	2222		0 =00/	0.000/	
S3	LEFT SIDE	4050	4050	2250	2250	6300	6300	0.76%	0.69%	Level Spreader B1
	Brown Road									
	ST: 0+00.00 - ST: 4+50.00									
S3	RIGHT SIDE	4050	4050	2250	2250	6300	6300	0.76%	0.69%	Level Spreader B1
	Brown Road									
	ST: 4+50.00 - ST: 6+50.00									
S3	LEFT SIDE	1800	1800	1000	1000	2800	2800	0.34%	0.31%	Forested Buffer FB-B1
	Brown Road									
	ST: 4+50.00 - ST: 6+50.00									
S3	LEFT SIDE	1800	1800	1000	1000	2800	2800	0.34%	0.31%	Level Spreader B1
	Brown Road									
	ST: 4+50.00 - ST: 6+50.00									
S3	RIGHT SIDE	2400	2400	1000	1000	3400	3400	0.45%	0.37%	Level Spreader B1
	Brown Road									
	ST: 6+50.00 - ST: 8+28.00									
S5	LEFT SIDE	1602	1602	890	890	2492	2492	0.30%	0.27%	Forested Buffer FB-B2
	Brown Road									
	ST: 6+50.00 - ST: 7+50.00									
S5	RIGHT SIDE	900	900	500	500	1400	1400	0.17%	0.15%	Forested Buffer FB-B2
	Brown Road									
	ST: 7+50.00 - ST: 10+95.00									
S5	RIGHT SIDE	3105	3105	1725	1725	4830	4830	0.58%	0.53%	Forested Buffer FB-B2
	Brown Road									
	ST: 8+28.00 - ST: 11+39.51									
S5	LEFT SIDE	2803.59	2803.59	1557.55	1557.55	4361.14	4361.14	0.53%	0.48%	Level Spreader D11
	LLI I OIDL	2000.00	2000.00	1007.00	1007.00	7001.17	7001.17	0.0070	0.7070	Level opicadel DTI

State											
SECOND Mathematical Seco		Brown Road									
Crossaver Way ST-(HOLD) ST-4-4-01 3630.00 3630.0											
ST: 0+00.00 - ST: 4+00.01 3686.09 3696.09 2020.05 2020.05 5696.14	S5	RIGHT SIDE	400.59	400.59	222.55	222.55	623.14	623.14	0.08%	0.07%	Level Spreader D11
SECONDOM: SECO		Crossover Way									
Conseque Way ST-(+00.00 - ST-44404 1) SE-(+00.00 - ST-44404 1) SE-(+00.00 - ST-44404 1) SE-(+00.00 - ST-44404 1) SE-(+00.00 - ST-44040 1)		ST: 0+00.00 - ST: 4+04.01									
ST-04000 ST-46401 SIDE 3698 09 3698 09 3698 09 2020 05 2020 05 5686 14 5656 14 0.68% 0.62% Point 1	S2	LEFT SIDE	3636.09	3636.09	2020.05	2020.05	5656.14	5656.14	0.68%	0.62%	Pond 1
Second Property Second Pro		Crossover Way									
Second Property Second Pro		ST: 0+00.00 - ST: 4+04.01									
Consolver Way ST -470-401 - ST -770-00 Consolver Way ST -470-401 - ST -770-00 Consolver Way Consol	S2		3636 09	3636 09	2020.05	2020.05	5656 14	5656 14	0.68%	0.62%	Pond 1
\$\frac{81-40-0.01-15.7-70-0.00}{\frac{1}{2}}\$\frac{1}{2}\$\frac{1}{	02		0000.00	0000.00	2020.00	2020.00	0000	0000	0.0070	0.0270	
SS LEFT SIDE 268.91											
Crossover Way ST-6+001 - ST-6+002 2388.09 0 1310.05 0 3668.14 0 0.00% 0.00% No Treatment	62		2662.01	_	1470.05	0	4142.00	0	0.000/	0.000/	No Treatment
\$3 ST.49-401-ST.6490.02 ST.6490.02 ST.	33		2003.91	U	1479.90	U	4143.00	U	0.0076	0.00%	No freatment
S3 RIGHT SIDE 2356.09 0 1310.05 0 3688.14 0 0.00% 0.00% No Treatment											
Crossover Way ST.7+00.00 - ST.9+06.42 2397.78 2397.78 1332.1 1332.1 3729.88 3729.88 0.45% 0.41% Level Spreader C1					4040.05		0000 44		2 222/	2 222/	
\$3	\$3		2358.09	0	1310.05	0	3668.14	0	0.00%	0.00%	No Treatment
S3 LEFT SIDE 2397.78 2397.78 1332.1 1332.1 3729.88 3729.88 0.45% 0.41% Level Spreader C1											
Crossover Way ST: 6-680.2 ST: 9-680.2											
\$\frac{1}{5}\$ \frac{1}{5}\$ \frac{1}{6}\$ \frac{1}{6}\$ \frac{1}{2}\$ \frac{1}{5}\$ \frac{1}{6}\$ \frac{1}{2}\$ \frac{1}{5}\$ \frac{1}{6}\$ \frac{1}{2}\$ \frac{1}{5}\$ \frac{1}{6}\$ \frac{1}{2}\$ \frac{1}{3}\$ \frac{1}{6}\$ \frac{1}{6}\$ \frac{1}{3}\$ \frac{1}{6}\$ \fra	S3		2397.78	2397.78	1332.1	1332.1	3729.88	3729.88	0.45%	0.41%	Level Spreader C1
S3 LEFT SIDE 2703.6 2703.6 1502 1502 4205.6 4205.6 0.51% 0.46% Level Spreader B1										1	
Upper Twins Road ST: 19-00.00 ST: 99-00.00											
\$2 EFF SIDE 900 7200 0 0 900 7200 1.35% 0.79% Pond 1 \$2 Upper Twain Road ST: 9+00.00 ST: 91+00.00	S3	LEFT SIDE	2703.6	2703.6	1502	1502	4205.6	4205.6	0.51%	0.46%	Level Spreader B1
SE LEFT SIDE 900 7200 0 0 900 7200 1.35% 0.79% Pond 1		Upper Twain Road									
Upper Twain Road ST-04-00.0 ST-18-90.00 ST-04-00.0 ST-04-90.00 ST-04-90.00 ST-04-9		ST: 0+00.00 - ST: 9+00.00								1	
Upper Twain Road ST-04-00.0 ST-18-90.00 ST-04-00.0 ST-04-90.00 ST-04-90.00 ST-04-9	S2	LEFT SIDE	900	7200	0	0	900	7200	1.35%	0.79%	Pond 1
ST 0+00.00 - ST 9+00.00 ST 18+00.00 ST											
Standard											
Upper Twain Road ST: 9+00.00 ST: 9+00.	S2		900	7200	0	0	900	7200	1.35%	0.79%	Pond 1
ST.9+00.00 - ST.18+00.00 S	02			.200	Ŭ			.200	11.0070	0.1.070	
S2 LEFT SIDE 1800 8100 4500 4500 6300 12600 1.52% 1.38% Pond 1											
Upper Twain Road ST: 94-90.00 ST: 184-90.28 ST: 184-90.98 ST: 184-90.9	62		1900	9100	4500	4500	6200	12600	1 520/	1 200/.	Pond 1
ST: 9+00.00 - ST: 9+50.00 RIGHT SIDE 100 450 250 250 350 700 0.08% 0.08% Pond 1	32		1600	6100	4500	4500	0300	12000	1.5270	1.30%	Folia i
S2 RIGHT SIDE 100 450 250 250 350 700 0.08% 0.08% Pond 1											
Upper Txian Road ST: 94-90.00 ST: 18+90.00 ST: 29+74.90	00		400	450	050	050	050	700	0.000/	0.000/	D 1.4
ST: 9+50.00 - ST: 18+00.00 RIGHT SIDE	52		100	450	250	250	350	700	0.08%	0.08%	Pond 1
S3											
Upper Twain Road ST: 18+00.00 - ST: 18+96.28											
ST: 18+00.00 - ST: 18+96.28 LEFT SIDE 192.56 0 481.4 0 673.96 0 0.00% 0.00% No Treatment	S3		1700	0	4250	0	5950	0	0.00%	0.00%	No Treatment
S3											
ST: 18+00.00 ST: 18+96.28 ST: 30+75.00 ST: 18+96.28 ST: 29+00.00 ST:											
ST: 18+90.00 - ST: 18+96.28	S3	LEFT SIDE	192.56	0	481.4	0	673.96	0	0.00%	0.00%	No Treatment
S3 RIGHT SIDE 192.56 0 481.4 0 673.96 0 0.00% 0.00% No Treatment										1	
Upper Twain Road ST: 18+96.28 - ST: 30+75.00 2357.44 0 5893.6 0 8251.04 0 0.00% 0.00% No Treatment										1	
S1 LEFT SIDE 2357.44 0 5893.6 0 8251.04 0 0.00% 0.00% No Treatment Upper Twain Road ST: 18+96.28 - ST: 29+00.00 S3 RIGHT SIDE 2007.44 0 5018.6 0 7026.04 0 0.00% 0.00% No Treatment Upper Twain Road ST: 29+74.93 S3 RIGHT SIDE 299.72 674.37 374.65 374.65 674.37 1049.02 0.13% 0.11% Level Spreader S1 Upper Twain Road ST: 29+74.93 - ST: 31+80.49 S3 RIGHT SIDE 822.24 0 1027.8 0 1850.04 0 0.00% 0.00% No Treatment Upper Twain Road ST: 30+75.00 - ST: 34+75.00 S1 LEFT SIDE 1600 3600 2000 2000 3600 5600 0.68% 0.61% Level Spreader T2 Upper Twain Road ST: 31+10.49 - ST: 37+11.21	S3	RIGHT SIDE	192.56	0	481.4	0	673.96	0	0.00%	0.00%	No Treatment
S1		Upper Twain Road									
S1		ST: 18+96.28 - ST: 30+75.00								1	
Upper Twain Road ST: 18+96_28 - ST: 29+00.00 RIGHT SIDE 2007.44 0 5018.6 0 7026.04 0 0.00% 0.00% No Treatment	S1	LEFT SIDE	2357.44	0	5893.6	0	8251.04	0	0.00%	0.00%	No Treatment
ST: 18+96.28 - ST: 29+00.00 RIGHT SIDE Upper Twain Road ST: 29+00.00 - ST: 29+74.93 RIGHT SIDE 299.72 674.37 374.65 374.6		Upper Twain Road									
S3 RIGHT SIDE 2007.44 0 5018.6 0 7026.04 0 0.00% 0.00% No Treatment Upper Twain Road ST: 29+70.00 - ST: 29+74.93 S3 RIGHT SIDE 299.72 674.37 374.65 374.65 674.37 1049.02 0.13% 0.11% Level Spreader S1 Upper Twain Road ST: 29+74.93 - ST: 31+80.49 S3 RIGHT SIDE 822.24 0 1027.8 0 1850.04 0 0.00% 0.00% No Treatment Upper Twain Road ST: 30+75.00 - ST: 34+75.00 ST: 31+80.49 - ST: 37+11.21 1600 3600 2000 2000 3600 5600 0.68% 0.61% Level Spreader T2											
Upper Twain Road ST: 29+00.00 - ST: 29+74.93 RIGHT SIDE 299.72 674.37 374.65 374.65 674.37 1049.02 0.13% 0.11% Level Spreader S1	S3		2007.44	0	5018.6	0	7026.04	0	0.00%	0.00%	No Treatment
ST: 29+70.00 - ST: 29+74.93 RIGHT SIDE 299.72 674.37 374.65 374.65 674.37 1049.02 0.13% 0.11% Level Spreader S1 Upper Twain Road ST: 29+74.93 - ST: 31+80.49 RIGHT SIDE 822.24 0 1027.8 0 1850.04 0 0.00% 0.00% No Treatment Upper Twain Road ST: 30+75.00 - ST: 34+75.00 LEFT SIDE 1600 3600 2000 2000 3600 5600 0.68% 0.61% Level Spreader T2 Upper Twain Road ST: 31+80.49 - ST: 37+11.21				-		-		-			
S3 RIGHT SIDE 299.72 674.37 374.65 374.65 674.37 1049.02 0.13% 0.11% Level Spreader S1 Upper Twain Road ST: 29+74.93 - ST: 31+80.49 822.24 0 1027.8 0 1850.04 0 0.00% 0.00% No Treatment Upper Twain Road ST: 30+75.00 - ST: 34+75.00 ST: 34+75.00 2000 2000 3600 5600 0.68% 0.61% Level Spreader T2 Upper Twain Road ST: 31+80.49 - ST: 37+11.21 ST: 31+80.49 - ST: 37+11.21										1	
Upper Twain Road ST: 29+74.93 - ST: 31+80.49 RIGHT SIDE 822.24 0 1027.8 0 1850.04 0 0.00% 0.00% No Treatment	S3		299.72	674.37	374.65	374.65	674.37	1049.02	0.13%	0.11%	Level Spreader S1
ST: 29+74.93 - ST: 31+80.49 RIGHT SIDE Upper Twain Road ST: 30+75.00 - ST: 34+75.00 S1 LEFT SIDE Upper Twain Road ST: 31+80.49 - ST: 37+11.21	- 50			5. 1.07	0. 1.00	0. 1.00	0. 1.07	.0.0.02	5.7070	570	2010. 00100001 01
S3 RIGHT SIDE 822.24 0 1027.8 0 1850.04 0 0.00% 0.00% No Treatment Upper Twain Road ST: 30+75.00 - ST: 34+75.00 S1 LEFT SIDE 1600 3600 2000 2000 3600 5600 0.68% 0.61% Level Spreader T2 Upper Twain Road ST: 31+80.49 - ST: 37+11.21 ST: 31+80.49 - ST: 37+11.21 ST: 31+80.49 - ST: 37+11.21 ST: 31+80.49 - ST: 37+11.21										1	
Upper Twain Road ST: 30+75.00 - ST: 34+75.00 S1 LEFT SIDE 1600 3600 2000 2000 3600 5600 0.68% 0.61% Level Spreader T2 Upper Twain Road ST: 31+80.49 - ST: 37+11.21 S1 S1 S1 S1 S1 S1 S1	53		822 24	0	1027.8	0	1850 04	0	0.00%	0.00%	No Treatment
ST: 30+75.00 - ST: 34+75.00 S1	33		022.24	J	1021.0	J	1000.04	J	0.00 %	0.0070	ino rieatinent
S1 LEFT SIDE 1600 3600 2000 2000 3600 5600 0.68% 0.61% Level Spreader T2 Upper Twain Road ST: 31+80.49 - ST: 37+11.21 ST: 31+80.49 - ST: 37+11.21 ST: 31+80.49 - ST: 37+11.21 ST: 31+80.49 - ST: 37+11.21										1	
Upper Twain Road ST: 31+80.49 - ST: 37+11.21	64		1600	3600	2000	2000	3600	E600	0.600/	0.640/	Loyal Carred TO
ST: 31+80.49 - ST: 37+11.21	51		0000	3000	∠000	∠000	3000	UUOC	.º8%	υ.υ1%	Level Spreader 12
										1	
S3 KIGHT SIDE 2125.44 4782.24 2656.8 2656.8 4782.24 7439.04 0.90% 0.81% Level Spreader E1											
	S3	RIGHT SIDE	2125.44	4782.24	2656.8	2656.8	4782.24	7439.04	0.90%	0.81%	Level Spreader E1

			1	1	1	1	1	1	1	
	Upper Twain Road									
	ST: 34+75.00 - ST: 38+00.00									
S1	LEFT SIDE	1300	2925	1625	1625	2925	4550	0.55%	0.50%	Level Spreader T1
	Upper Twain Road									
	ST: 38+00.00 - ST: 38+96.34									
S1	LEFT SIDE	385.36	867.06	481.7	481.7	867.06	1348.76	0.16%	0.15%	Level Spreader D1
	Upper Twain Road									
	ST: 37+11.21 - ST: 38+96.34									
S3	RIGHT SIDE	740.52	1666.17	925.65	925.65	1666.17	2591.82	0.31%	0.28%	Level Spreader D2
S3	Camper Site D1	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader D2
S3	Camper Site D2	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader D1
S3	Camper Site D3	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader D2
S3	Camper Site D4	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader D1
S3	Camper Site D5	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader D2
S3	Camper Site D6	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader D3
S3	Camper Site D7	600	600	400	400	1000	1000	0.11%	0.11%	Forested Buffer FB-D1
S3	Camper Site D8	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader D3
S3	Camper Site D9	600	600	400	400	1000	1000	0.11%	0.11%	Forested Buffer FB-D1
S3	Camper Site D10	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader D4
S3	Camper Site D11	600	600	400	400	1000	1000	0.11%	0.11%	Forested Buffer FB-D2
S3	Camper Site D12	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader D4
S3	Camper Site D13	600	600	400	400	1000	1000	0.11%	0.11%	Forested Buffer FB-D2
S3	Camper Site D14	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader D4
S3	Camper Site D15	600	600	400	400	1000	1000	0.11%	0.11%	Forested Buffer FB-D2
S3	Camper Site D16	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader D5
S3	Camper Site D17	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader D4
S3	Camper Site D18	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader D5
S3	Camper Site D19	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader D4
S3	Camper Site D20	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader D5
S3	Camper Site D21	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader D7
S3	Camper Site D22	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader D6
S3	Camper Site D23	600	0	400	0	1000	0	0.00%	0.00%	No Treatment
S3	Camper Site D24	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader D6
S3	Camper Site D25	600	0	400	0	1000	0	0.00%	0.00%	No Treatment
S3	Camper Site D26	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader D6
S3	Camper Site D27	600	0	400	0	1000	0	0.00%	0.00%	No Treatment
S5	Camper Site D28	600	600	400	400	1000	1000	0.00%	0.11%	Level Spreader D8
S5	Camper Site D29	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader D8
S3	Camper Site D30	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader D7
S5	Camper Site D30	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader D8
S5	Camper Site D32	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader D8
S3	Camper Site D33	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader G1
S5	Camper Site D33	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader D8
S5 S5	Camper Site D35	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader D8
S5 S5	Camper Site D36	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader D8 Level Spreader D9
S5 S5	Camper Site D37	600	600	400	400	1000	1000	0.11%	0.11%	
S5 S5	Camper Site D37	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader D9 Level Spreader D10
S5 S5	Camper Site D39	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader D10 Level Spreader D9
S5 S5	Camper Site D39 Camper Site D40	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader D9 Level Spreader D10
S5 S5	Camper Site D40 Camper Site D41	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader D10 Level Spreader D9
S5 S5		600	600	400	400	1000	1000	0.11%	0.11%	
S5 S5	Camper Site D42 Camper Site D43	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader D10
S5 S5	Camper Site D43 Camper Site D44	600	600	400	400	1000	1000		0.11%	Level Spreader D9
								0.11%		Level Spreader D10
S5	Camper Site D45	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader D9
S5	Camper Site D46	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader D9
S5	Camper Site D47	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader D10
S5	Camper Site D48	600	600	400	400	1000	1000	0.11%	0.11%	Forested Buffer FB-D3
S5	Camper Site D49	600	600	400	400	1000	1000	0.11%	0.11%	Forested Buffer FB-D3
S5	Camper Site D50	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader D11
S1	PULLOUT	650	650	0	0	650	650	0.12%	0.07%	Level Spreader D1

C2	PULLOUT	650	650	0	0	650	650	0.12%	0.07%	Forested Buffer FB-D2
S3 S3	PULLOUT	650	650	0	0	650	650	0.12%	0.07%	Level Spreader D5
S3	PULLOUT	650	650	0	0	650	650	0.12%	0.07%	Level Spreader D7
S5	PULLOUT	650	650	0	0	650	650	0.12%	0.07%	Level Spreader D10
S5	PULLOUT		650	0	0				0.07%	
S5	PULLOUT	650 650	650	0	0	650 650	650 650	0.12% 0.12%	0.07%	Level Spreader D10 Level Spreader D10
	BATHROOM			0	0				0.07%	
S3	BATHROOM	600 600	600 600	0	0	600 600	600 600	0.11% 0.11%	0.07%	Level Spreader D4
S5 S3	Sewage Pumpout Station	1000		0	0	1000		0.00%	0.07%	Level Spreader D10
S3	Camper Site E1	600	0 600	400	400	1000	1000	0.00%	0.00%	No Treatment
S3	Camper Site E2	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader E1 Level Spreader E1
S3	Camper Site E3	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader E1
S3	Camper Site E4	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader E3
S3	Camper Site E5	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader E3
S3	Camper Site E6	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader E3
S3	Camper Site E7	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader E3
S3	Camper Site E8	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader E3
S3	Camper Site E9	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader E3
S3	Camper Site E10	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader E4 Level Spreader E4
S3	Camper Site E11	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader E4 Level Spreader E4
S3	Camper Site E12	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader E4 Level Spreader E4
S3	Camper Site E12	600	600	400	400	1000	1000	0.11%	0.11%	Forested Buffer FB-E1
S3	Camper Site E14	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader E5
S3	Camper Site E15	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader E5
S3	Camper Site E16	600	600	400	400	1000	1000	0.11%	0.11%	Forested Buffer FB-E1
S3	Camper Site E17	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader E5
S3	Camper Site E18	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader E6
S3	Camper Site E19	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader E6
S3	Camper Site E20	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader E6
S3	Camper Site E21	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader E7
S3	Camper Site E22	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader E7
S3	Camper Site E23	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader E7
S3	Camper Site E24	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader E8
S3	Camper Site E25	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader E8
S3	Camper Site E26	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader E8
S3	Camper Site E27	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader E8
S3	Camper Site E28	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader E8
S3	Camper Site E29	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader E9
S3	Camper Site E30	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader E9
S3	Camper Site E31	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader E9
S3	Camper Site E32	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader B1
S3	Camper Site E33	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader B1
S3	Camper Site E34	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader B1
S3	Camper Site E35	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader B1
S3	Camper Site E36	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader B1
S3	Camper Site E37	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader B1
S3	Camper Site E38	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader B1
S3	Camper Site E39	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader B1
S3	Camper Site E40	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader B1
S3	Camper Site E41	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader E10
S3	Camper Site E42	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader E10
S3	Camper Site E43	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader E10
S3	Camper Site E44	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader E10
S3	Camper Site E45	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader E10
S3	Camper Site E46	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader E10
S3	Camper Site E47	600	600	400	400	1000	1000	0.11%	0.11%	Forested Buffer FB-B2
S5	Camper Site E48	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader D10
S5	Camper Site E49	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader D11
S5	Camper Site E50	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader D11
S3	PULLOUT	650	650	0	0	650	650	0.12%	0.07%	Level Spreader E1

00	DULLOUT	050	050		0	050	050	0.400/	0.070/	Laval Carandar E4
S3	PULLOUT	650	650	0	0	650	650	0.12%	0.07%	Level Spreader E4
S3	PULLOUT	650	650	-	-	650	650	0.12%	0.07%	Level Spreader E6
S3	PULLOUT	650	650	0	0	650	650	0.12%	0.07%	Level Spreader E7
S3	PULLOUT	650	650	0	0	650	650	0.12%	0.07%	Level Spreader E9
S3	PULLOUT	650	650	0	0	650	650	0.12%	0.07%	Level Spreader E10
S3	BATHROOM	600	600	0	0	600	600	0.11%	0.07%	Level Spreader E5
S3	BATHROOM	600	600	0	0	600	600	0.11%	0.07%	Level Spreader E9
S3	Camper Site S1	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader S2
S3	Camper Site S2	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader S1
S3	Camper Site S3	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader S1
S3	Camper Site S4	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader S2
S3	Camper Site S5	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader S2
S3	Camper Site S6	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader S2
S3	Camper Site S7	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader S2
S3	Camper Site S8	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader S2
S3	Camper Site S9	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader S2
S3	Camper Site S10	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader S2
S3	Camper Site S11	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader S2
S3	Camper Site S12	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader S2
S3	Camper Site S13	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader S2
S3	Camper Site S14	600	0	400	0	1000	0	0.00%	0.00%	No Treatment
S3	Camper Site S15	600	0	400	0	1000	0	0.00%	0.00%	No Treatment
S3	PULLOUT	650	650	0	0	650	650	0.12%	0.07%	Level Spreader S1
S3	PULLOUT	650	650	0	0	650	650	0.12%	0.07%	Level Spreader S2
S3	BATHROOM	600	600	0	0	600	600	0.11%	0.07%	Level Spreader S2
S3	Camper Site G1	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader D10
S3	Camper Site G2	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader D10
S3	Camper Site G3	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader D10
S3	Camper Site G4	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader D10
S3	Camper Site G5	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader G1
S3	Camper Site G6	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader G2
S3	Camper Site G7	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader G1
S3	Camper Site G8	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader G2
S3	Camper Site G9	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader G1
S3	Camper Site G10	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader G2
S3	Camper Site G11	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader G1
S3	Camper Site G12	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader G2
S3	Camper Site G13	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader G2
S3	Camper Site G14	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader G2
S3	Camper Site G15	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader G2
S3	Camper Site G16	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader G2
S3	Camper Site G17	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader G2
S3	Camper Site G18	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader B1
S3	Camper Site G19	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader B1
S3	Camper Site G20	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader G2
S3	Camper Site G21	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader E10
S5	Camper Site G22	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader D10
S5	Camper Site G23	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader D10
S3	Camper Site G24	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader E10
S5	Camper Site G25	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader D10
S3	Camper Site G26	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader E10
S5	Camper Site G27	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader D10
S3	PULLOUT	650	650	0	0	650	650	0.12%	0.07%	Level Spreader G1
S5	PULLOUT	650	650	0	0	650	650	0.12%	0.07%	Level Spreader D10
S3	Camper Site B1	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader B1
S3	Camper Site B2	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader B1
S3	Camper Site B3	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader B1
S3	Camper Site B4	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader B1
S3	Camper Site B5	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader B1
S3	Camper Site B6	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader B1

00	Campan C#a D7	000	000	100	400	4000	4000	0.440/	0.440/	Lavel Casadas D4
S3	Camper Site B7	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader B1
S3	Camper Site B8	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader B1
S3	Camper Site B9	600	600	400	400	1000	1000	0.11%	0.11%	Forested Buffer FB-B1
S3	Camper Site B10	600	600	400	400	1000	1000	0.11%	0.11%	Forested Buffer FB-B1
S3	Camper Site B11	600	600	400	400	1000	1000	0.11%	0.11%	Forested Buffer FB-B1
S3	Camper Site B12	600	600	400	400	1000	1000	0.11%	0.11%	Forested Buffer FB-B1
S5	Camper Site B13	600	600	400	400	1000	1000	0.11%	0.11%	Forested Buffer FB-B2
S5	Camper Site B14	600	600	400	400	1000	1000	0.11%	0.11%	Forested Buffer FB-B2
S5	Camper Site B15	600	600	400	400	1000	1000	0.11%	0.11%	Forested Buffer FB-B2
S5	Camper Site B16	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader D11
S5	Camper Site B17	600	600	400	400	1000	1000	0.11%	0.11%	Forested Buffer FB-B2
S5	Camper Site B18	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader D11
S5	Camper Site B19	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader D11
S3	PULLOUT	650	650	0	0	650	650	0.12%	0.07%	Level Spreader B1
S3	PULLOUT	650	650	0	0	650	650	0.12%	0.07%	Forested Buffer FB-B2
S3	BATHROOM	600	600	0	0	600	600	0.11%	0.07%	Level Spreader B2
S2	Cabin Site C1	600	600	400	400	1000	1000	0.11%	0.11%	Pond 1
S2	Cabin Site C2	600	600	400	400	1000	1000	0.11%	0.11%	Pond 1
S2	Cabin Site C3	600	600	400	400	1000	1000	0.11%	0.11%	Pond 1
S2	Cabin Site C4	600	600	400	400	1000	1000	0.11%	0.11%	Pond 1
S2	Cabin Site C5	600	600	400	400	1000	1000	0.11%	0.11%	Pond 1
S2	Cabin Site C6	600	600	400	400	1000	1000	0.11%	0.11%	Pond 1
S2	Cabin Site C7	600	600	400	400	1000	1000	0.11%	0.11%	Pond 1
S2	Cabin Site C8	600	600	400	400	1000	1000	0.11%	0.11%	Pond 1
S2	Cabin Site C9	600	600	400	400	1000	1000	0.11%	0.11%	Pond 1
S3	Cabin Site C9 Cabin Site C10	600		400	0	1000	0	0.00%	0.00%	
			0							No Treatment
S3	Cabin Site C11	600	0	400	0	1000	0	0.00%	0.00%	No Treatment
S3	Cabin Site C12	600	0	400	0	1000	0	0.00%	0.00%	No Treatment
S3	Cabin Site C13	600	0	400	0	1000	0	0.00%	0.00%	No Treatment
S3	Cabin Site C14	600	0	400	0	1000	0	0.00%	0.00%	No Treatment
S3	Cabin Site C15	600	0	400	0	1000	0	0.00%	0.00%	No Treatment
S2	Tent Site C16	0	0	400	400	400	400	0.00%	0.04%	Pond 1
S2	Tent Site C17	0	0	400	400	400	400	0.00%	0.04%	Pond 1
S2	Tent Site C18	0	0	400	400	400	400	0.00%	0.04%	Pond 1
S2	Tent Site C19	0	0	400	400	400	400	0.00%	0.04%	Pond 1
S2	Tent Site C20	0	0	400	400	400	400	0.00%	0.04%	Pond 1
S2	Tent Site C21	0	0	400	0	400	0	0.00%	0.00%	No Treatment
S3	Tent Site C22	0	0	400	0	400	0	0.00%	0.00%	No Treatment
S3	Tent Site C23	0	0	400	0	400	0	0.00%	0.00%	No Treatment
S3	Tent Site C24	0	0	400	0	400	0	0.00%	0.00%	No Treatment
S3	Tent Site C25	0	0	400	0	400	0	0.00%	0.00%	No Treatment
S3	Camper Site C26	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader B1
S3	Camper Site C27	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader B2
S3	PULLOUT	650	650	0	0	650	650	0.12%	0.07%	Level Spreader C1
S2	Gravel Parking Area	5240	5240	0	0	5240	5240	0.98%	0.57%	Pond 1
S3	Gravel Parking Area	1650	0	0	0	1650	0	0.00%	0.00%	No Treatment
	Gravel Path	1000			<u> </u>	1000	J	0.0070	0.0070	no modificht
S2	(Tent Sites C16-C25)	3219	3219	0	0	3219	3219	0.60%	0.35%	Pond 1
S2	Bathroom	600	600	0	0	600	600	0.00%	0.07%	Pond 1
				0	0	200	200			
S2	Laundry Building	200	200	U	U	∠00	∠00	0.04%	0.02%	Pond 1
00	Crossover Lane Cabin Loop	0440	0440	2000	2000	44400	44400	4.500/	4.000/	David 4
S2	Roadway Impervious	8112	8112	3380	3380	11492	11492	1.52%	1.26%	Pond 1
	Crossover Lane Cabin Loop				_				1	
S3	Roadway Impervious	9864	0	4110	0	13974	0	0.00%	0.00%	No Treatment
S2	Cabin Site T1	600	600	400	400	1000	1000	0.11%	0.11%	Pond 1
S2	Cabin Site T2	600	600	400	400	1000	1000	0.11%	0.11%	Pond 1
S2	Cabin Site T3	600	600	400	400	1000	1000	0.11%	0.11%	Pond 1
	Cabin Site T4	600	600	400	400	1000	1000	0.11%	0.11%	Pond 1
S2	Cabili Sile 14	000	000							
S2 S2	Cabin Site T5	600	600	400	400	1000	1000	0.11%	0.11%	Pond 1

S2	Camper Site T7	600	600	400	400	1000	1000	0.11%	0.11%	Pond 1
S2	Camper Site T8	600	600	400	400	1000	1000	0.11%	0.11%	Pond 1
S2	Camper Site T9	600	600	400	400	1000	1000	0.11%	0.11%	Pond 1
S3	Cabin Site T10	600	0	400	0	1000	0	0.00%	0.00%	No Treatment
S3	Cabin Site T10	600	0	400	0	1000	0	0.00%	0.00%	No Treatment
S3	Cabin Site T12	600	0	400	0	1000	0	0.00%	0.00%	No Treatment
S3	Cabin Site T12	600	0	400	0	1000	0	0.00%	0.00%	No Treatment
S3	Cabin Site T13	600	0	400	0	1000	0	0.00%	0.00%	No Treatment
S3	Cabin Site T15	600	0	400	0	1000	0	0.00%	0.00%	No Treatment
S3	Cabin Site T16	600	0	400	0	1000	0	0.00%	0.00%	No Treatment
S3	Cabin Site T17	600	0	400	0	1000	0	0.00%	0.00%	No Treatment
S3	Cabin Site T18	600	0	400	0	1000	0	0.00%	0.00%	No Treatment
S3	Cabin Site T19	600	0	400	0	1000	0	0.00%	0.00%	No Treatment
S3	Cabin Site T20	600	0	400	0	1000	0	0.00%	0.00%	No Treatment
S3	Cabin Site T21	600	0	400	0	1000	0	0.00%	0.00%	No Treatment
S3	Cabin Site T22	600	0	400	0	1000	0	0.00%	0.00%	No Treatment
S3	Cabin Site T23	600	0	400	0	1000	0	0.00%	0.00%	No Treatment
S3	Cabin Site T24	600	0	400	0	1000	0	0.00%	0.00%	No Treatment
S3	Cabin Site T25	600	0	400	0	1000	0	0.00%	0.00%	No Treatment
S3	Cabin Site T26	600	0	400	0	1000	0	0.00%	0.00%	No Treatment
S3	Cabin Site T27	600	0	400	0	1000	0	0.00%	0.00%	No Treatment
S3	Cabin Site T28	600	0	400	0	1000	0	0.00%	0.00%	No Treatment
S3	Camper Site T29	600	600	400	400	1000	1000	0.11%	0.11%	Forested Buffer FB-T2
S1	Camper Site T30	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader T2
S3	Camper Site T31	600	600	400	400	1000	1000	0.11%	0.11%	Individual Forested Buffer
S1	Camper Site T32	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader T2
S3	Camper Site T33	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader E1
S1	Camper Site T34	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader T2
S3	Camper Site T35	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader E1
S3	Camper Site T36	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader E1
S3	Camper Site T37	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader E1
S1	Camper Site T38	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader T1
S3	Camper Site T39	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader E1
S1	Camper Site T40	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader T1
S3	Camper Site T41	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader E1
S1	Camper Site T42	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader T1
S3	Camper Site T43	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader D2
S3	Camper Site T44	600	600	400	400	1000	1000	0.11%	0.11%	Level Spreader D2
S3	PULLOUT	650	650	0	0	650	650	0.12%	0.07%	Level Spreader D2
S1	PULLOUT	650	650	0	0	650	650	0.12%	0.07%	Level Spreader T2
S3	PULLOUT	650	650	0	0	650	650	0.12%	0.07%	No Treatment
S1	BATHROOM	600	600	0	0	600	600	0.11%	0.07%	Level Spreader T1
S1	Sewage Pumpout Station	1000	0	0	0	1000	0	0.00%	0.00%	No Treatment
S1	Sewage Pumpout Station	1000	0	0	0	1000	0	0.00%	0.00%	No Treatment
	Large Parking Area and			1						
S2	Entrance Gravel	50453	50453	0	0	50453	50453	9.48%	5.53%	Pond 1
	Entrance Lanscaped Area			1						
S2	(Grass)	0	0	84325	101527	84325	101527	0.00%	11.12%	Pond 1
S2	Dumpster Pad	100	100	0	0	100	100	0.02%	0.01%	Pond 1
	Main Building and Deck			1						
S2	Impervious	9010	9010	0	0	9010	9010	1.69%	0.99%	Pond 1
S2	Pool Area Impervious	4536	4536	0	0	4536	4536	0.85%	0.50%	Pond 1
S2	Other Buildings	2045	2045	0	0	2045	2045	0.38%	0.22%	Pond 1
S2	Walkways	1180	1180	0	0	1180	1180	0.22%	0.13%	Pond 1
S2	Playground Area Lower	0	0	1740.5	1740.5	1740.5	1740.5	0.00%	0.19%	Pond 1
S3	Playground Area Upper	0	0	4764	4764	4764	4764	0.00%	0.52%	Forested Buffer FB-T1
	Parking Area Upper Twain		_	1 _	_					
S3	Station +/- 14+50.00	5132	0	0	0	5132	0	0.00%	0.00%	No Treatment
	Parking Area Upper Twain	44	_	_	_	44.5	_	0.5-21	0.0554	
S3	Station +/- 16+50.00	1142	0	0	0	1142	0	0.00%	0.00%	No Treatment

S2	Tent Site A1	200	200	400	400	600	600	0.04%	0.07%	Pond 1
S2	Tent Site A2	200	200	400	400	600	600	0.04%	0.07%	Pond 1
S2	Tent Site A3	200	200	400	400	600	600	0.04%	0.07%	Pond 1
S2	Tent Site A4	200	200	400	400	600	600	0.04%	0.07%	Pond 1
S2	Tent Site A5	200	200	400	400	600	600	0.04%	0.07%	Pond 1
S2	Tent Site A6	200	200	400	400	600	600	0.04%	0.07%	Pond 1
S2	Tent Site A7	200	200	400	400	600	600	0.04%	0.07%	Pond 1
S2	Tent Site A8	200	200	400	400	600	600	0.04%	0.07%	Pond 1
S2	Tent Site A9	200	200	400	400	600	600	0.04%	0.07%	Pond 1
S2	Tent Site A10	200	200	400	400	600	600	0.04%	0.07%	Pond 1
S2	Tent Site A11	200	200	400	400	600	600	0.04%	0.07%	Pond 1
S2	Tent Site A12	200	200	400	400	600	600	0.04%	0.07%	Pond 1
S2	Tent Site A13	200	200	400	400	600	600	0.04%	0.07%	Pond 1
S2	Tent Site A14	200	200	400	400	600	600	0.04%	0.07%	Pond 1
S2	Tent Site A15	200	200	400	400	600	600	0.04%	0.07%	Pond 1
S2	Cabin Site A16	600	600	400	400	1000	1000	0.11%	0.11%	Pond 1
S2	Cabin Site A17	600	600	400	400	1000	1000	0.11%	0.11%	Pond 1
S2	Cabin Site A18	600	600	400	400	1000	1000	0.11%	0.11%	Pond 1
S2	Cabin Site A19	600	600	400	400	1000	1000	0.11%	0.11%	Pond 1
S2	Cabin Site A20	600	600	400	400	1000	1000	0.11%	0.11%	Pond 1
S2	Cabin Site A21	600	600	400	400	1000	1000	0.11%	0.11%	Pond 1
S2	Cabin Site A22	600	600	400	400	1000	1000	0.11%	0.11%	Pond 1
S2	Cabin Site A23	600	600	400	400	1000	1000	0.11%	0.11%	Pond 1
S2	Cabin Site A24	600	600	400	400	1000	1000	0.11%	0.11%	Pond 1
S2	Cabin Site A25	600	600	400	400	1000	1000	0.11%	0.11%	Pond 1
S2	Cabin Site A26	600	600	400	400	1000	1000	0.11%	0.11%	Pond 1
S2	Cabin Site A27	600	600	400	400	1000	1000	0.11%	0.11%	Pond 1
S2	Cabin Site A28	600	600	400	400	1000	1000	0.11%	0.11%	Pond 1
S2	Tent Site A29	200	200	400	400	600	600	0.04%	0.07%	Pond 1
S2	Tent Site A30	200	200	400	400	600	600	0.04%	0.07%	Pond 1
S2	Tent Site A31	200	200	400	400	600	600	0.04%	0.07%	Pond 1
S2	Tent Site A32	200	200	400	400	600	600	0.04%	0.07%	Pond 1
S2	Tent Site A33	200	200	400	400	600	600	0.04%	0.07%	Pond 1
S2	Tent Site A34	200	200	400	400	600	600	0.04%	0.07%	Pond 1
S2	Tent Site A35	200	200	400	400	600	600	0.04%	0.07%	Pond 1
S2	Tent Site A36	200	200	400	400	600	600	0.04%	0.07%	Pond 1
S2	Tent Site A37	200	200	400	400	600	600	0.04%	0.07%	Pond 1
S2	Tent Site A38	200	200	400	400	600	600	0.04%	0.07%	Pond 1
S2	Tent Site A39	200	200	400	400	600	600	0.04%	0.07%	Pond 1
S2	Tent Site A40	200	200	400	400	600	600	0.04%	0.07%	Pond 1
S2	Tent Site A41	200	200	400	400	600	600	0.04%	0.07%	Pond 1
S2	Tent Site A42	200	200	400	400	600	600	0.04%	0.07%	Pond 1
S2 S2	Tent Site A42	200	200	400	400	600	600	0.04%	0.07%	Pond 1
S2 S2	Tent Site A44	200	200	400	400	600	600	0.04%	0.07%	Pond 1
S2 S2	Tent Site A44	200	200	400	400	600	600	0.04%	0.07%	Pond 1
S3	Tent Site A46	200	0	400	0	600	0	0.04%	0.07%	No Treatment
S3	Tent Site A47	200	0	400	0	600	0	0.00%	0.00%	No Treatment No Treatment
S3	Tent Site A47	200	0	400	0	600	0	0.00%	0.00%	No Treatment No Treatment
S3	Tent Site A49	200	0	400	0	600	0	0.00%	0.00%	No Treatment No Treatment
S3	Tent Site A49 Tent Site A50	200	0	400	0	600	0	0.00%	0.00%	
S3	Tent Site A50	200	0	400	0	600	0	0.00%	0.00%	No Treatment No Treatment
S3		200	0	400	0	600	0	0.00%	0.00%	
	Tent Site A52	200		400	0	600		0.00%	0.00%	No Treatment
S3	Tent Site A53		0				0			No Treatment
S3	Tent Site A54	200	0	400	0	600	0	0.00%	0.00%	No Treatment
S3	Tent Site A55	200	0	400	0	600	0	0.00%	0.00%	No Treatment
S2	Tent Site A56	200	200	400	400	600	600	0.04%	0.07%	Pond 1
S2	Tent Site A57	200	200	400	400	600	600	0.04%	0.07%	Pond 1
S2	Tent Site A58	200	200	400	400	600	600	0.04%	0.07%	Pond 1
S2	Tent Site A59	200	200	400	400	600	600	0.04%	0.07%	Pond 1
S2	Tent Site A60	200	200	400	400	600	600	0.04%	0.07%	Pond 1

S2	Tent Site A61	200	200	400	400	600	600	0.04%	0.07%	Pond 1
S2	Tent Site A62	200	200	400	400	600	600	0.04%	0.07%	Pond 1
S2	Tent Site A63	200	200	400	400	600	600	0.04%	0.07%	Pond 1
S3	Tent Site A64	200	0	400	0	600	0	0.00%	0.00%	No Treatment
S2	Tent Site A65	200	200	400	400	600	600	0.04%	0.07%	Pond 1
S2	Bathroom	600	600	0	0	600	600	0.11%	0.07%	Pond 1
S2	A Sites Road Network	48776	46984	20904	20904	69680	67888	8.83%	7.44%	Pond 1
S3	A Sites Road Network	17794	0	7626	0	25420	0	0.00%	0.00%	No Treatment
S2	Lower Gravel Road	0	9870	0	5922	0	15792	1.85%	1.73%	Pond 1
S3	Upper Gravel Road (2 Sides)	0	0	0	0	0	0	0.00%	0.00%	No Treatment
S3	Upper Gravel Road (1 Side)	0	0	0	0	0	0	0.00%	0.00%	No Treatment
S1	Upper Pond Loop Road	0	0	0	0	0	0	0.00%	0.00%	No Treatment
	Boulder Retaining Wall									
S2	Impervious	13435	13435	0	0	13435	13435	2.52%	1.47%	Pond 1
		<u> </u>								
	Subtotal	532358	521867	380696	350367	913054	872234	98.03%	95.53%	1



Soil Suitability Report

prepared for

Nature's Wilderness Campground (Terradyn Consultants, LLC) Marston Road Baldwin, Maine

February 2018

Soil test pits observed January 30, and February 6, 2018

Maps prepared for proposed campground utilizing private water supplies and on-site subsurface wastewater disposal

Map scaled I" = 120', base map provided by Terradyn Consultants, LLC

Longview Partners was contracted by Terradyn Consulting, LLC to evaluate soils for a proposed campground and recreation facility. The campground, as we understand it, will include campsites with full sewer hook-ups, primitive tenting sites which will have access to public restrooms and showers, a full-service restaurant serving three meals per day, and multiple free-standing cabins.

Soils were evaluated at pre-selected locations as shown on a plan provided by Terradyn Consulting, LLC. Some locations were adjusted while on-site, as needed, to accommodate existing topograpohic features and to take advantage of soils suitable for siting first-time subsurface wastewater disposal fields per the standards of the State of Maine Subsurface Wastewater Disposal Rules (the Rules). All soils evaluated consist of stony, glacial till soils that generally exhibit 'perched' water tables above a restrictive substrata (hardpan). These soils require medium-large size ratings per the Rules, or 3.3 sq. ft. of suitable soil area per gallon of wastewater generated per day.

Design flows for some of the proposed uses are as follows:

Campsites with full sewer & water hook-up: 75 gallons per day (gpd) per site

Free-standing cabins (minimum 2 bedrooms/unit): 180 gpd per cabin (90 gpd per bedroom)

Full-service restaurant serving 3 meals per day with china (non-paper) service: 45 gpd/seat and 12 gpd/employee (a grease trap will also be required and a multiplier of 1.8 x base design flow will be utilized to account for increased strength of restaurant wastewater flows)

A recreation hall is also shown on the plan, which includes space for limited café-style food preparation and a small bar service for individuals staying in the campground. This design flow (bar/tavern/cocktail lounge w/ limited food per the *Rules*) will be assessed at either 15 gallons per seat or 13 gallons per patron.

Since it is uncertain where vehicular traffic/parking may be needed in the vicinity of the proposed disposal fields, we recommend installation of H-20 rated concrete chambers which can withstand heavy loads. Due to shallow water tables and existing topography in certain locations, pump stations are likely to be needed to convey wastewater collected to final disposal field locations.

Please take note that *public water supplies* (i.e. 25 or more users per day) require 300' setbacks to all disposal fields. Disposal fields less than 1,000 gpd must be located 100' to the ponds located on site and the stream identified. Disposal fields of 1,000 to 1,999 gpd must maintain setbacks of 200' to ponds and streams. Fields designed for more than 2,000 gpd require 300' setbacks and must be stamped by a Professional Engineer. Fields of this size also require additional review and approval by the State of Maine Division of Environmental Health. Nitrate and mounding analysis are also required for disposal fields designed for 2,000 gpd or more.

The project site has significant areas of suitable soils available for final placement of wastewater disposal fields, or reserve areas if engineered designs are required. Longview Partners can return to the site, if necessary, to provide additional soil test pit data for final designs. Please note that additional field work is required to complete full subsurface wastewater design applications (form HHE-200) for final review and permitting once wastewater design flows have been quantified.

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Obse	rvation Hole Depth o	f Organic Harize	Test Pit on Above Minerci	Soi Boring	Observ	ation Hale Depth o	f Organic Horiz	Test Pit on Above Miner	[] Barii ral Sail
	Texture	Consistency	Calar	Mottling	n ļ	Texture	Consistency	Color	Mottling
	SANDY	FROZEN	VARIABLE			SANDY			
9	LOAMY		Brows	* 10.00	T	Loan	FROZEN	VARIAB	CE
40	3AND			***	1	9			
REALE	(F14)				SLEFACE	Lasmy		Brown	
SOL, SURFACE Limites	STONY	PRIABLE	DANK		.a f	- 24 M			
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JAMES LOGAN - LONGVIEW PARTNERS, LLC - 6 SECOND STREET - BUXTON, ME 04093 - langviewpartners213@gmail.com

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JAMES LOGAN - LONGVIEW PARTNERS, LLC - 6 SECOND STREET - BUXTON, ME 04093 - langviewpartners213@gmail.com

Maine Dept.Health & Human Services SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION Div of Environmental Health . 11 SHS (207) 287-5672 Fax: (207) 287-4172 PROPERTY LOCATION >> CAUTION: LPI APPROVAL REQUIRED << City, Town. BALDWIN or Plantation Street or Road 2 UPPER TWAIN ROAD Date Permit Issued ___/__/ Subdivision, Lot # Local Plumbing Inspector Signature LPI & OWNER/APPLICANT INFORMATION Owner D Town D State lame (last, first, MI) NATURE'S WILDERNESS RESORT Applicant The Subsurface Wastewater Disposal System shall not be installed until a c/o SCOTT EFRON Permit is issued by the Local Plumbing Inspector: The Permit shall Mailing Address of authorize the owner or installer to install the disposal system in accordance 2 UPPER TWAIN ROAD BALDWIN, ME 04091 Owner/Applicant with this application and the Maine Subsurface Wastewater Disposal Rules. Daytime Tel. # 207-787-6012 Municipal Tax Map # OWNER OR APPLICANT STATEMENT I state and acknowledge that the information submitted is correct to the best of CAUTION: INSPECTION REQUIRED I have inspected the installation authorized above and found it to be in compliance my knowledge and understand that any falsification is reason for the Department and/or with the Subsurface Wastewater Disposal Rules Application. Local Plumbing Inspector to deny a Permit. (1st) date approved Signature of Owner or Applicant. Local Plumbing Inspector Signature (2nd) date approved PERMIT INFORMATION TYPE OF APPLICATION THIS APPLICATION REQUIRES DISPOSAL SYSTEM COMPONENTS 1. Complete Non-engineered System 1. First Time System 1. No Rule Variance 2. Primitive System (graywater & alt. toilet) 2. Replacement System First Time System Variance 3. Alternative Toilet, specify:____ a. Local Plumbing Inspector Approval b. State & Local Plumbing Inspector Approval Type replaced: 4. Non-engineered Treatment Tank (only) 5. Holding Tank, ___ Year installed: gallons. 3. Replacement System Variance 6. Non-engineered Disposal Field (only) Expanded System a. <25% Expansion b. ≥25% Expansion Local Plumbing Inspector Approval State & Local Plumbing Inspector Approval Separated Laundry System 8. Complete Engineered System (2000 gpd or more) Experimental System 9. Engineered Treatment Tank (only) Minimum Lot Size Variance 5. Seasonal Conversion 10. Engineered Disposal Field (only) Seasonal Conversion Permit 11. Pre-treatment, specify: SIZE OF PROPERTY DISPOSAL SYSTEM TO SERVE 12. Miscellaneous Components 1. Single Family Dwelling Unit, No. of Bedrooms: TYPE OF WATER SUPPLY 301.08+/-2. Multiple Family Dwelling, No. of Units: PROPOSED 3. Other: CAMPGROUND-14 SITES 1. Drilled Well 2. Dug Well 3. Private SHORELAND ZONING (specify) 4. Public 5. Other No Current Use Şeasonal Year Round Undeveloped DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3) **DESIGN FLOW** TREATMENT TANKS **DISPOSAL FIELD TYPE & SIZE** GARBAGE DISPOSAL UNIT 840 gallons per day 1. Concrete Stone Bed 2. Stone Trench 1. No 2. Yes 3, Maybe H-20 3. Proprietary Device BASED ON: a. Regular If Yes or Maybe, specify one below: b. Low Profile RATED 1. Table 4A (dwelling unit(s)) a. cluster array c. Linear a. multi-compartment tank b. regular load d. H-20 load 2. Table 4C(other facilities) 2. Plastic tanks in series SHOW CALCULATIONS for other facilities 4. Other. 3. Other: c. increase in tank capacity -CAMPGROUND-3328 sq. ft. lin. ft. CAPACITY: 1500 d. Filter on Tank Outlet 14 SITES AT 60 GALLONS PER DAY/SITE 52 CONCRETE CHAMBERS 14 X 60 = 840 GPD SHARED RESTROOM WITH SHOWERS SOIL DATA & DESIGN CLASS DISPOSAL FIELD SIZING **EFFLUENT/EJECTOR PUMP** Section 4G (meter readings) PROFILE CONDITION 1. Not Required ATTACH WATER METER DATA SEE NOTE 3 / D 1. Medium--2.6 sq. ft. / gpd LATITUDE AND LONGITUDE 2. May Be Required ON PAGE 3 at center of disposal area at Observation Hole #TP 6 2. Medium---Large 3.3 sq. f.t / gpd 3. Required 43 d 38 70 d 20 m **09** Depth 13 " 3. Large---4.1 sq. ft. / gpd _m 48 Specify only for engineered systems: of Most Limiting Soil Factor if g.p.s, state margin of error: 4. Extra Large-5.0 sq. ft. / gpd DOSE: SITE EVALUATOR STATEMENT 8/30/18 (date) Lompleted a site evaluation on this property and state that the data reported are accurate and certify that on that the proposed system is in compliance with the State of Maine Subsurface Wastewater Disposal Rules (10-144A CMR 241). 237 Site Evaluator Signature JAMES LOGAN longviewpartners213@gmail.com 207-693-8799 Site Evaluator Name Printed Telephone Number E-mail Address

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Note: Changes to or deviations from the design should be confirmed with the Site Evaluator.

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Department of Human Services SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION Division of Health Engineering (207) 287-5672 Fax: (207) 287-3165 Town, City, Plantation Street, Road, Subdivision Owner's Name BALDWIN 2 UPPER TWAIN ROAD NATURE'S WILDERNESS RESORT SITE PLAN Scale 1"= ft. or as shown 100 SITE LOCATION PLAN (map from Maine Atlas recommended) PPER TWAIN ROAD PROPOSED DISPOSAL FIELD SITE MARSTONS ROAD 9" DIA. FLAGGED MAPLE **PROPOSED** RESTROOMS ERP: NAIL 49" ABOVE BASE OF 13" DIA. FLAGGED OAK PROPERTY BOUNDARY INFORMATION PER EXISTING CONDITIONS PLAN BY TERRADYN CONSULTANTS, LLC VERIFY ACCURATE PROPERTY LINES IN FIELD PRIOR TO CONSTRUCTION TO ASSURE SETBACKS SHOWN SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above) ☐ Boring Observation Hole ______ TP 6 ____ Test Pit Observation Hole Test Pit Boring " Depth of Organic Horizon Above Mineral Soil " Depth of Organic Horizon Above Mineral Soil SOIL TEST PIT BY BACKHOE Texture Consistency Mottling Texture Color Mottling Consistency 0 GHT GRAY 0 (ALBIC) DARK YELLOWISH STONY FINE Depth Below Mineral Soil Surface (inches) SANDY FRIABLE Surface (inches) LOAM COMMON MIXED FAINT STONY OLIVE COMMON 20 LOAMY FIRM BROWN DISTINCT Depth Below Mineral Soil SAND & SAND 30 40 LIMIT OF EXCAVATION @ 51" 50 Soil Classification Limiting Slope X | Ground Water Soil Classification Slope Limiting] Ground Water Factor Restrictive Layer] Restrictive Layer Factor 3 3-4 % [] Bedrock] Bedrock 13 " Profile Condition [] Pit Depth Profile Condition [] Pit Depth Page 2 of 3 237 HHE-200 Rev. 8/01 Site Evaluator Signature SE# 73

Department of Human Services SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION Division of Health Engineering (207) 287-5672 Fax: (207) 287-3165 Town, City, Plantation Street, Road, Subdivision Owner's Name BALDWIN 2 UPPER TWAIN ROAD NATURE'S WILDERNESS RESORT SUBSURFACE WASTEWATER DISPOSAL PLAN NOTE: THOROUGHLY ROTOTILL UNDER ENTIRE SCALE: 1" = 30 FT. DISPOSAL FIELD, SHOULDER AREA, & FILL -47" EXTENSION AREA PRIOR TO FILL PLACEMENT, THEN BLEND FIRST 6" LIFT OF FILL INTO EXISTING SOIL SURFACE TO PROMOTE MIXING EXISTING GRADE AT CORNER 64" 11/1 11/1 DISTRIBUTION BOX INSULATED PER CODE PROPOSED DISPOSAL FIELD REQUIREMENTS (BOTTOM (4 ROWS OF 13 H-20 RATED FEED IF PUMPING) CONCRETE CHAMBERS) 1375 ERP: NAIL 49" ABOVE BASE OF 13" DIA. FLAGGED OAK. [REFERENCE ELEV. 00'] APPROXIMATE TOE OF FILL -47" -64" 4" DIA. SDR-35 SOLID PVC (IF 11/1 GRAVITY) OR 1 2" TO 2" DIA., EFFLUENT LINE BURIED BELOW 11/1 9" DIA. FROST & INSULATED TO PREVENT FLAGGED FREEZING (IF PUMPING) SLEEVE LINE BENEATH ROADWAY MAPLE-0 PROPOSED H-20 RATED 1500 GALLON CONCRETE SEPTIC TANK LOCATED 8' MIN. FROM BUILDING.SET AT HIGH ENOUGH ELEVATION TO PROPOSED ASSURE GRAVITY FLOW OR INSTALL PUMP STATION ASSURE WATERTIGHTNESS & INSTALL OUTLET FILTER RESTROOMS FILL REQUIREMENTS CONSTRUCTION ELEVATIONS ELEVATION REFERENCE POINT -11" Location & Description: Finished Grade Elevation 36" Depth of Fill (Upslope) NAIL 49" ABOVE BASE OF 13" DIA. FLAGGED OAK Top of Distribution Pipe or Proprietary Device -23" 00" Reference Elevation: Depth of Fill (Downslope) 50"- 53" Bottom of Disposal Area -42" DISPOSAL AREA CROSS SECTION Scale Horizontal 1" = 10 ft. 1" = 5 ft. Vertical 9' TO 12' FILL EXT.-H 5' SHOULDER 5" SHOULDER 20' 10 21' FILL EXT. SCARIFY/ROTOTILL (SEE NOTE ABOVE) GRAVELLY COARSE SAND EXISTING GRADE CAP TOE OF FILL WITH SANDY LOAM MATERIAL GRAVELLY COARSE SAND TO PREVENT WASTEWATER PLACE 12" THICKNESS OF 1 1/2" CLEAN CRUSHED STONE ALONGSIDE & 6" BREAKOUT UNDERNEATH PERIMETER OF CONCRETE CHAMBER UNITS CONCRETE CHAMBER DETAIL (no scale)

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Site Evaluator Signature

Maine Dept. Health & Human Services SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION Div of Environmental Health, 11 SHS (207) 287-5672 Fax: (207) 287-4172 PROPERTY LOCATION >> CAUTION: LPI APPROVAL REQUIRED << City, Town, BALDWIN or Plantation Town/City_ Permit # Street or Road 2 UPPER TWAIN ROAD Date Permit issued ___/__/ Fee: \$ Subdivision, Lot# Local Plumbing Inspector Signature LPI # OWNER/APPLICANT INFORMATION Owner Town State Name (last, first, MI) NATURE'S WILDERNESS RESORT Applicant The Subsurface Wastewater Disposal System shall not be installed until a c/o SCOTT EFRON Permit is issued by the Local Plumbing Inspector: The Permit shall Mailing Address of authorize the owner or installer to install the disposal system in accordance 2 UPPER TWAIN ROAD BALDWIN, ME 04091 Owner/Applicant with this application and the Maine Subsurface Wastewater Disposal Rules. Municipal Tax Map # Daytime Tel. # 207-787-6012 CAUTION: INSPECTION REQUIRED OWNER OR APPLICANT STATEMENT I have inspected the installation authorized above and found it to be in compliance I state and acknowledge that the information submitted is correct to the best of my knowledge and understand that any falsification is reason for the Department and/or with the Subsurface Wastewater Disposal Rules Application. Local Plumbing Inspector to deny a Permit. (1st) date approved Signature of Owner or Applicant Date Local Plumbing Inspector Signature (2nd) date approved PERMIT INFORMATION TYPE OF APPLICATION THIS APPLICATION REQUIRES DISPOSAL SYSTEM COMPONENTS 1. Complete Non-engineered System 1. No Rule Variance 1. First Time System 2. Primitive System (graywater & alt. toilet) 2. Replacement System 2. First Time System Variance 3. Alternative Toilet, specify: Local Plumbing Inspector Approval State & Local Plumbing Inspector Approval Type replaced: 4. Non-engineered Treatment Tank (only) 5. Holding Tank, Year installed: 3. Replacement System Variance 6. Non-engineered Disposal Field (only) Expanded System a. Local Plumbing Inspector Approval b. State & Local Plumbing Inspector Approval 7. Separated Laundry System a. <25% Expansion b. >25% Expansion 8. Complete Engineered System (2000 gpd or more) 4. Experimental System 9. Engineered Treatment Tank (only) 4. Minimum Lot Size Variance 10. Engineered Disposal Field (only) Seasonal Conversion Seasonal Conversion Permit 11. Pre-treatment, specify: DISPOSAL SYSTEM TO SERVE SIZE OF PROPERTY 12. Miscellaneous Components 1. Single Family Dwelling Unit, No. of Bedrooms: TYPE OF WATER SUPPLY 301.08+/-2. Multiple Family Dwelling, No. of Units: PROPOSED 3. Other: CAMPGROUND-12 RV SITES 1. Drilled Well 2. Dug Well 3. Private SHORELAND ZONING (specify) 4. Public 5. Other No Yes Current Use Seasonal Year Round Undeveloped DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3) **DESIGN FLOW DISPOSAL FIELD TYPE & SIZE GARBAGE DISPOSAL UNIT** TREATMENT TANKS 900 gallons per day Stone Bed 2. Stone Trench 1. Concrete 1. No 2. Yes 3, Maybe H-20 BASED ON: 3. Proprietary Device a. Regular If Yes or Maybe, specify one below: a. cluster array c. Linear b. regular load d. H-20 load 1. Table 4A (dwelling unit(s)) b. Low Profile RATED a. multi-compartment tank 2. Table 4C(other facilities) 2. Plastic tanks in series SHOW CALCULATIONS for other facilities increase in tank capacity 3. Other: -CAMPGROUND-3264 sq. ft. lin. ft. CAPACITY: 1500 GAL SIZE: d. Filter on Tank Outlet 12 RV SITES (WITH WATER & SEWER AT EACH SITE) AT 75 GALLONS PER DAY/SITE 51 CONCRETE CHAMBERS (OR 2-1000's IN SERIES) 12 X 75 = 900 GPD SOIL DATA & DESIGN CLASS DISPOSAL FIELD SIZING EFFLUENT/EJECTOR PUMP 3. Section 4G (meter readings) PROFILE CONDITION ATTACH WATER METER DATA 1. Not Required SEE NOTE LATITUDE AND LONGITUDE 1. Medium---2.6 sq. ft. / gpd 2. May Be Required ON PAGE 3 at Observation Hole #TP 2 at center of disposal area 2. Medium---Large 3.3 sq. f.t / gpd 3. Required d 49 m 41 Depth 48 70 d 44 3. Large--4.1 sq. ft. / gpd Specify only for engineered systems: of Most Limiting Soil Factor if g.p.s, state margin of error: 4. Extra Large---5.0 sq. ft. / gpd DOSE: SITE EVALUATOR STATEMENT 8/30/18 (date) I completed a site evaluation on this property and state that the data reported are accurate and that the proposed system is in compliance with the State of Maine Subsurface Wastewater Disposal Rules (10-144A CMR 241). 237 Site Evaluator Signature JAMÉS LOGAN longviewpartners213@gmail.com 207-693-8799 Site Evaluator Name Printed Telephone Number E-mail Address Note: Changes to or deviations from the design should be confirmed with the Site Evaluator. Page 1 of 3

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Department of Human Services SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION Division of Health Engineering (207) 287-5672 Fax: (207) 287-3165 Town, City, Plantation Street, Road, Subdivision Owner's Name BALDWIN 2 UPPER TWAIN ROAD NATURE'S WILDERNESS RESORT 1"= SITE PLAN ft. or as shown 100 SITE LOCATION PLAN (map from Maine Atlas recommended) PPER TWAIN ROAD PROPOSED SITE DISPOSAL FIELD FOR RESTAURANT MARSTONS ROAD PROPERTY BOUNDARY INFORMATION 24" DIA. PER EXISTING CONDITIONS PLAN BY FLAGGED TERRADYN CONSULTANTS, LLC HEMLOCK **VERIFY ACCURATE PROPERTY LINES** IN FIELD PRIOR TO CONSTRUCTION P 2 TO ASSURE SETBACKS SHOWN SEPTIC TANK/PIPING LOCATIONS TO BE DETERMINED ON-SITE WITH SITE **EVALUATOR** PROPOSED MAJOR DISPOSAL WATERCOURSE FIELD ERP: NAIL AT BASE OF 12" DIA. FLAGGED MAPLE STUMP SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above) ☐ Boring Observation Hole Observation Hole ☐ Test Pit ☐ Boring TP 2 Test Pit " Depth of Organic Horizon Above Mineral Soil " Depth of Organic Horizon Above Mineral Soil SOIL TEST PIT BY BACKHOE Texture Consistency Color Mottling Texture Mottling Consistency 0 0 SANDY Soil Surface (inches) Depth Below Mineral Soil Surface (inches) LOAM & LOAMY VARIABLE SAND (FILL) BROWN 20 FRIABLE Below Mineral S 30 DARK YELLOWISH STONY FINE BROWN SANDY LOAM YELLOWISH 40 BROWN 40 50 STONY LOAMY SAND FIRM OLIVE BROWN | COMMON FAINT Soil Classification FILL OVER [X] Ground Water Slope Limiting Soil Classification Slope Limiting [] Ground Water Factor [X] Restrictive Layer] Restrictive Layer Factor 0-1 % [] Bedrock] Bedrock 48 . [] Pit Depth Profile Condition Profile Condition [] Pit Depth Page 2 of 3 237 HHE-200 Rev. 8/01 Site Evaluator Signature SE# 76

Department of Human Services SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION Division of Health Engineering (207) 287-5672 Fax: (207) 287-3165 Town, City, Plantation Street, Road, Subdivision Owner's Name BALDWIN 2 UPPER TWAIN ROAD NATURE'S WILDERNESS RESORT SUBSURFACE WASTEWATER DISPOSAL PLAN SCALE: 1" = 30 NOTE: THOROUGHLY ROTOTILL UNDER ENTIRE 4" DIA. SDR-35 FT. DISPOSAL FIELD, SHOULDER AREA, & FILL EXTENSION AREA PRIOR TO FILL PLACEMENT, SOUD PVC THEN BLEND FIRST 6" LIFT OF FILL INTO EXISTING O PROPOSED H-20 RATED 1500 GALLON (OR 2-1000 SOIL SURFACE TO PROMOTE MIXING GALLON) CONCRETE SEPTIC TANK LOCATED 8' MIN. FROM BUILDING.SET AT HIGH ENOUGH 24" DIA. ELEVATION TO ASSURE GRAVITY FLOW OR INSTALL FLAGGED PUMP STATION ASSURE WATERTIGHTNESS & HEMLOCK INSTALL OUTLET FILTER DISTRIBUTION BOX INSULATED PER CODE REQUIREMENTS ERP: NAIL IN BASE OF 12" DIA. FLAGGED PROPOSED DISPOSAL FIELD MAPLE STUMP (3 ROWS OF 17 H-20 RATED [REFERENCE ELEV. 00"] CONCRETE CHAMBERS) -69" **EXISTING GRADE** AT CORNER PPROXIMATE TOE OF FILL FILL REQUIREMENTS CONSTRUCTION ELEVATIONS ELEVATION REFERENCE POINT -67" Location & Description: Finished Grade Elevation 0"- 2" Depth of Fill (Upslope) NAIL AT BASE OF 12" DIA. FLAGGED MAPLE STUMP -79" Top of Distribution Pipe or Proprietary Device Reference Elevation: 00" Depth of Fill (Downslope) 0"- 3" -98" Bottom of Disposal Area DISPOSAL AREA CROSS SECTION Scale Horizontal 1" = 10 ft. 1" = 5 ft. Vertical 5' SHOULDE CAPTOE OF FILL WITH SANDY LOAM MATERIAL TO PREVENT WASTEWATER BREAKOUT EXISTING GRADE PADE EXISTING GRADE GRAVELLY COARSE— SAND REMOVE ALL PORTIONS OF UNCONTROLLED FILL MATERIAL TO A MINIMUM DEPTH OF BENEATH CONCRETE CHAMBERS AND 3' ALONGSIDE. REPLACE WITH CLEAN GRAVELLY COARSE SAND AS NEEDED TO MAKE GRADES GRAVELLY COARSE SAND PLACE 12" THICKNESS OF 1 X" CLEAN CRUSHED STONE ALONGSIDE & 6" UNDERNEATH PERIMETER OF CONCRETE CONCRETE CHAMBER DETAIL (no scale) 237 Page 3 of 3 HHE-200 Rev. 8/01 Site Excluator Signature SE#

Maine Dept. Health & Human Services SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION Div of Environmental Health . 11 SHS (207) 287-5672 Fax: (207) 287-4172 PROPERTY LOCATION >> CAUTION: LPI APPROVAL REQUIRED << City, Town, BALDWIN or Plantation Permit # Street or Road 2 UPPER TWAIN ROAD Date Permit Issued __ Subdivision, Lot # Local Plumbing Inspector Signature LPI # OWNER/APPLICANT INFORMATION Owner I Town I State Name (last, first, MI) NATURE'S WILDERNESS RESORT Applicant The Subsurface Wastewater Disposal System shall not be installed until a c/o SCOTT EFRON Permit is issued by the Local Plumbing Inspector: The Permit shall Mailing Address of authorize the owner or installer to install the disposal system in accordance 2 UPPER TWAIN ROAD BALDWIN, ME 04091 Owner/Applicant with this application and the Maine Subsurface Wastewater Disposal Rules. Daytime Tel. # Municipal Tax Map # 207-787-6012 CAUTION: INSPECTION REQUIRED OWNER OR APPLICANT STATEMENT I state and acknowledge that the information submitted is correct to the best of my knowledge and understand that any falsification is reason for the Department and/or I have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposal Rules Application. Local Plumbing Inspector to deny a Permit. (1st) date approved Signature of Owner or Applicant Date Local Plumbing Inspector Signature (2nd) date approved PERMIT INFORMATION TYPE OF APPLICATION THIS APPLICATION REQUIRES DISPOSAL SYSTEM COMPONENTS 1. First Time System Complete Non-engineered System 1. No Rule Variance 2. Primitive System (graywater & alt. toilet) 2. Replacement System 2. First Time System Variance 3. Alternative Toilet, specify: a. Local Plumbing Inspector Approval b. State & Local Plumbing Inspector Approval Type replaced: 4. Non-engineered Treatment Tank (only) 5. Holding Tank, ___ _ gallons . Year installed: 3. Replacement System Variance 6. Non-engineered Disposal Field (only) 3. Expanded System a. <25% Expansion b. ≥25% Expansion a. Local Plumbing Inspector Approval b. State & Local Plumbing Inspector Approval 7. Separated Laundry System 8. Complete Engineered System (2000 gpd or more) Experimental System 9. Engineered Treatment Tank (only) 4. Minimum Lot Size Variance 10. Engineered Disposal Field (only) 5. Seasonal Conversion Seasonal Conversion Permit 11. Pre-treatment, specify: SIZE OF PROPERTY DISPOSAL SYSTEM TO SERVE 12. Miscellaneous Components 750 GALLON GREASE TRAP 1. Single Family Dwelling Unit, No. of Bedrooms: TYPE OF WATER SUPPLY 301.08+/-2. Multiple Family Dwelling, No. of Units: PROPOSED 3. Other: 25 SEAT RESTAURANT 1. Drilled Well 2. Dug Well 3. Private SHORELAND ZONING 4. Public 5. Other Yes No Current Use Seasonal Year Round Undeveloped DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3) **DESIGN FLOW** DISPOSAL FIELD TYPE & SIZE TREATMENT TANKS GARBAGE DISPOSAL UNIT 351 gallons per day 1. Stone Bed 2. Stone Trench 1. Concrete 1. No 2. Yes 3. Maybe H-20 BASED ON: 3. Proprietary Device a. Regular If Yes or Maybe, specify one below: b. Low Profile RATED 1. Table 4A (dwelling unit(s)) a. cluster array c. Linear b. regular load d. H-20 load a. multi-compartment tank 2. Table 4C(other facilities) 2. Plastic tanks in series SHOW CALCULATIONS for other facilities 4. Other: 3 Other: c. increase in tank capacity -25 SEAT RESTAURANT-SIZE: _ 1280 sq. ft. lin. ft. CAPACITY: 1000 GAL d. Filter on Tank Outlet 3 MEALS PER DAY, PAPER SERVICE 7 GPD/SEAT (USING 1.8 MULTIPLIER) = 315 GPD 3 EMPLOYEES AT 12 GPD/EMPLOYEE & 750 GAL. GREASE TRAP 20 CONCRETE CHAMBERS & GREASE FILTER ON GREASE TRAP SOIL DATA & DESIGN CLASS DISPOSAL FIELD SIZING 315 + 36 = 351 GPD **EFFLUENT/EJECTOR PUMP** Section 4G (meter readings) PROFILE CONDITION 1. Not Required ATTACH WATER METER DATA SEE NOTE C 1. Medium---2.6 sq. ft. / gpd LATITUDE AND LONGITUDE 2. May Be Required ON PAGE 3 at Observation Hole #TP 1 at center of disposal area 2. Medium-Large 3.3 sq. f.t / gpd 3. Required d 49 m 43 Depth 30 " 3. Large-4.1 sq. ft. / gpd 70 d 44 Specify only for engineered systems: m 43 of Most Limiting Soil Factor if g.p.s, state margin of error: 4. Extra Large-5.0 sq. ft. / gpd DOSE: SITE EVALUATOR STATEMENT 8/30/18 (date) I completed a site evaluation on this property and state that the data reported are accurate and certify that on that the proposed system is in compliance with the State of Maine Subsurface Wastewater Disposal Rules (10-144A CMR 241).

Site Evaluator Signature

237

9/24/18

JAMES LOGAN

207-693-8799

longviewpartners213@gmail.com

Site Evaluator Name Printed

Telephone Number

E-mail Address

Note : Changes to or deviations from the design should be confirmed with the Site Evaluator.

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Department of Human Services SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION Division of Health Engineering (207) 287-5672 Fax: (207) 287-3165 Town, City, Plantation Street, Road, Subdivision Owner's Name BALDWIN 2 UPPER TWAIN ROAD NATURE'S WILDERNESS RESORT Scale 1"= SITE PLAN ft. or as shown 100 SITE LOCATION PLAN (map from Maine Atlas 750 GALLON recommended) GREASE TRAP **PROPOSED** PPER TWAIN ROAD FOR SINK 25 SEAT RESTAURANT BLACK ROAD 1000 GALLON SITE SEPTIC TANK FOR TOILET DRAINS MARSTONS ROAD **PROPOSED** DISPOSAL FIELD PROPERTY BOUNDARY INFORMATION PER EXISTING CONDITIONS PLAN BY TERRADYN CONSULTANTS, LLC **VERIFY ACCURATE PROPERTY LINES** IN FIELD PRIOR TO CONSTRUCTION TO ASSURE SETBACKS SHOWN MAJOR WATERCOURSE PROPOSED ERP: NAIL 23" ABOVE DISPOSAL BASE OF 10" DIA. FIELD FOR FLAGGED HEMLOCK **RV SITES** SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above) ☐ Boring Observation Hole Observation Hole ☐ Boring TP 1 Test Pit Test Pit " Depth of Organic Horizon Above Mineral Soil " Depth of Organic Horizon Above Mineral Soil SOIL TEST PIT BY BACKHOE Consistency Color Mottling Texture Mottling Consistency 0 0 SANDY Soil Surface (inches) Depth Below Mineral Soil Surface (inches) LOAM & LOAMY VARIABLE SAND (FILL) BROWN DARK YELLOWISH STONY FRIABLE SANDY BROWN LOAM Below Mineral 30 **COMMON FAINT** SOMEWHAT COMMON OLIVE STONY FIRM TO DISTINCT BROWN LOAMY FIRM 40 SAND Depth 50 50 Soil Classification FILL OVER Slope Limiting X | Ground Water Soil Classification Slope Limiting [] Ground Water Restrictive Layer Factor [] Restrictive Layer Factor 1-2 % [] Bedrock] Bedrock 30 . Profile Condition [] Pit Depth Profile Condition [] Pit Depth Page 2 of 3 237 HHE-200 Rev. 8/01 Site Evaluator Signature SE# Date 79

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Town, City, Plantation

Site Waluator Signature

Street, Road, Subdivision

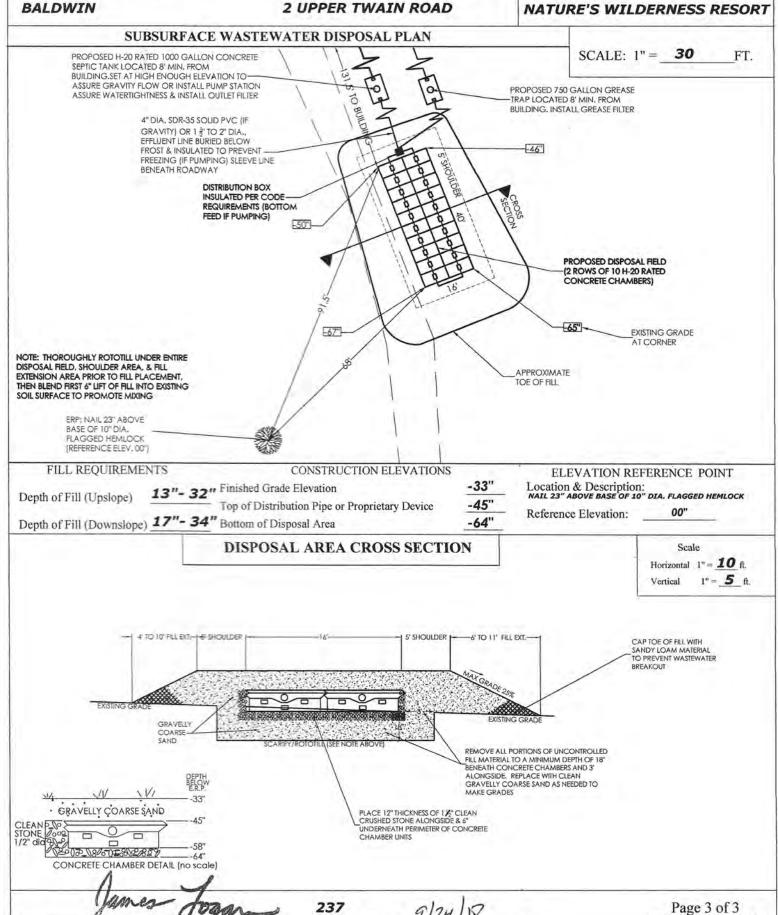
Division of Health Engineering (207) 287-5672 Fax: (207) 287-3165

Department of Human Services

Owner's Name

HHE-200 Rev. 8/01

2 UPPER TWAIN ROAD



SE#

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Note: Changes to or deviations from the design should be confirmed with the Site Evaluator.

Department of Human Services SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION Division of Health Engineering (207) 287-5672 Fax: (207) 287-3165 Town, City, Plantation Street, Road, Subdivision Owner's Name BALDWIN 2 UPPER TWAIN ROAD NATURE'S WILDERNESS RESORT SITE PLAN Scale 1"= ft. or as shown 100 SITE LOCATION PLAN (map from Maine Atlas PROPOSED RV SITES ON recommended) **OPPOSITE SIDE OF POND** (NOT SHOWN) ASSURE WATERTIGHTNESS PPER TWAIN ON SEPTIC TANK(S) & **BLACK ROAD** PUMP STATION SITE #2 MARSTONS ROAD MAN-MADE ERP: NAIL 42" ABOVE POND BASE OF 13" DIA. 10" DIA. FLAGGED HEMLOCK FLAGGED PROPERTY BOUNDARY INFORMATION PER EXISTING CONDITIONS PLAN BY TERRADYN CONSULTANTS, LLC VERIFY ACCURATE PROPERTY LINES IN FIELD PRIOR TO CONSTRUCTION TO ASSURE SETBACKS SHOWN SEPTIC TANK/PIPING LOCATIONS TO BE DETERMINED ON-SITE WITH SITE **EVALUATOR** PROPOSED DISPOSAL FIELD SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above) Observation Hole ☐ Boring Observation Hole TP 14 Test Pit TP 15 Test Pit П " Depth of Organic Horizon Above Mineral Soil " Depth of Organic Horizon Above Mineral Soil SOIL TEST PIT BY BACKHOE SOIL TEST PIT BY BACKHOE Texture Consistency Color Mottling Texture Consistency Mottling Color 0 0 DARK DARK BROWN BROWN STONY FINE FRIABLE DARK DARK YELLOWISH Soil Surface (inches) Soil Surface (inches) SANDY RROWN LOAM YELLOWISH **FEW FAINT** YELLOWISH BROWN STONY FINE **BROWN** FIRM FRIABLE STONY SANDY COMMON **FEW FAINT** 20 LOAMY SAND OLIVE DISTINCT LOAM OLIVE & SAND GRAY GRAY Below Mineral FIRM Below Mineral STONY OLIVE COMMON 30 LOAMY SAND **BROWN** DISTINCT & SAND OLIVE FREE WATER 40 40 Depth LIMIT OF EXCAVATION @ 53" LIMIT OF EXCAVATION @ 48' Soil Classification Slope Limiting X | Ground Water Soil Classification Slope Limiting X Ground Water Factor Restrictive Layer [] Restrictive Layer Factor 3 D 2-3 % [] Bedrock 3 C 2-3 %] Bedrock 11 .. Profile Condition [] Pit Depth 18 " Profile Condition [] Pit Depth Page 2 of 3 237 HHE-200 Rev. 8/01 Site Eyaluator Signature SE#

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Updated Traffic Impact Study Numbers – Based on 300 Campsites

SITE TRAFFIC

Site Trip Generation: Trip generation was determined for the proposed Nature's Wilderness Campground project based upon trip tables presented in the seventh edition of the Institute of Transportation Engineers (ITE) "**TRIP GENERATION**" handbook. The following trip rates were used in that effort:

Land-Use Code 416 – Campground/Recreational Vehicle Park

Weekday Street Peak Hour – AM Peak	= 0.20 trips/campsite
Weekday Street Peak Hour – PM Peak	= 0.37 trips/campsite
Weekday Peak Hour of Site – AM Peak	= 0.22 trips/campsite
Weekday Peak Hour of Site – PM Peak	= 0.41 trips/campsite
Saturday Peak Hour	$= 0.55 \text{ trips/campsite}^{(1)}$

(1) NOTE: Saturday peak hour trip rate estimated based upon comparative trips rates presented for Land-Use Code #417 Regional Park. The trip rate for a typical Saturday peak hour for the noted regional park land-use is approximately 35% greater than the trip rate provided for the weekday PM peak hour of the site.

Accordingly, the proposed 250 (300) campsite Nature's Wilderness Campground project can be expected to generate a total of 50 (60) trips in the weekday morning peak hour of the street; 93(111) trips in the weekday evening peak hour of the street; 55(66) and 103(123) trips during the weekday morning and evening peak hours of the site, respectively, and approximately 139(165) trips on a typical summer Saturday peak hour.

TRAFFIC IMPACT STUDY

FOR

PROPOSED

Nature's Wilderness Campground

Prepared For: Mr. Scott Efron Prepared By: White I/Bray, P.E.

INTRODUCTION

Mr. Scott Efron is proposing to develop a 250-site campground on several hundred acres of land located in the general vicinity of Lower and Upper Ponds in the Town of Baldwin. The proposed project, Nature's Wilderness Campground, will include a mix of RV, tent, cabins and "glamping" sites. Proposed amenities include: swimming, fishing, hiking, mountain biking, etc. The campground is directly accessed from Marstons Road and other local gravel roads including Upper Twain Road and a portion of Deacon Road.

The purpose of this study is to examine existing traffic conditions in the general vicinity of the proposed project, estimate the total number of site trips generated by the project and, make a determination as to whether the existing transportation system can safely accommodate the added traffic demand generated by the project.

EXISTING CONDITIONS

Existing Design Hour Traffic; Manual turning movement counts were conducted at the following intersections during the month of October 2017 in the afternoon of a weekday and mid-day on Saturday:

- Senator Black Road (N) @ SR 113 (Saturday, October 14 & Monday, October 16)
- Senator Black Road (S) @ SR 113 (Saturday, October 21 & Monday, October 23)
- SR 113 @ SR 5/117 (aka Depot Road) (Saturday, October 28 & Wednesday, October 25)
- Senator Black Road @ Marstons Road (Saturday, October 21 & Tuesday, October 24)

All traffic entering and exiting each intersection were recorded in 15-minute intervals between 2:00 and 6:00 PM weekdays and, again, between 11:00 AM and 3:00PM on Saturday (A copy of the traffic data is attached as an appendix to the report). From a summary of the data, peak hour times were established for each location and day of week. Generally, the weekday afternoon peak hour occurred between 4:30 and 5:30 PM at each intersection except Senator Black Road @ Marstons Road, which occurred much earlier in the day between 2:45 and 3:45 PM. The Saturday peak hour falls between 11:00 AM and 12:00 PM at both Senator Black Road/ME 113 intersections; 11:15 AM – 12:15 PM at Marstons Road and Senator Black Road and between 12:45 and 1:45 PM at the SR. 113 @ SR. 5/117 intersection.

Traffic data collected during time periods other than the summer months of July and August require adjustment to reflect "peak" travel conditions. MaineDOT provides factors for adjusting traffic data collected during other periods of time. MaineDOT utilizes highway classifications of I, II, or III for all State and Local roadways. Group I roadways are defined as urban roadways or those roads that typically see commuter traffic and experience little fluctuation from week to week throughout the year. Group II roadways or arterial roads are those that see a combination of commuter and recreational traffic and, therefore, experience moderate fluctuations during the year. Group III roads or recreational roadways are typically used for recreational purposes and experience significant seasonal fluctuations. MaineDOT has designated the noted sections of both SR 113 and SR 5/117 Group II roadways and Senator Black Road a Group I roadway. MaineDOT's standards for a Group II roadway requires a seasonal adjustment of 1.22 to approximate "peak" summer travel conditions. The 2017 design hour traffic forecast for the study intersections are illustratively presented on Figure 1.

Roadway Safety Conditions: MaineDOT's Accident Records Section provided the latest three-year (2015 through 2017) crash data for the sections of SR 113 (aka Pequawket Trail) between both ends of Senator Black Road and the section of Marstons Road between Senator Black Road and Brown Road. MaineDOT's report is presented as follows:

2015 -2017 Traffic Accident Summary

<u>Location</u>	Total Crashes	Critical Rate Factor
1. Pequawket Trail @ Depot Road	6	2.15
2. Pequawket Trail @ Senator Black Road (N)	0	0
3. Pequawket Trail @ Senator Black Road (S)	0	0
4. Pequawket Trail btw. Senator Black Road (S) and Rocky Dunn Road	3	0.44
5. Pequawket Trail btw. Rocky Dunn Road and Depot Road	6	0.49
6. Pequawket Trail btw. Depot Road and Chase Road	3	0.29
7. Pequawket Trail btw. Chase Road and Senator Black Road (N) and Hamlin Road	3	0.30
8. Senator Black Road btw. both ends of Pequawket Trail	0	0
9. Marstons Road btw. Senator Black Road and Brown Road	0	0

The MaineDOT considers any roadway intersection or segment a high crash location if both of the following criteria are met:

- 8 or more accidents
- A Critical Rate Factor greater than 1.00

As the data presented in the table shows, the incidence of traffic crashes does not meet MaineDOT's threshold criteria for identification of a high crash location.

SITE TRAFFIC

Site Trip Generation: Trip generation was determined for the proposed Nature's Wilderness Campground project based upon trip tables presented in the seventh edition of the Institute of Transportation Engineers (ITE) "**TRIP GENERATION**" handbook. The following trip rates were used in that effort:

Land-Use Code 416 - Campground/Recreational Vehicle Park

Weekday Street Peak Hour – AM Peak	= 0.20 trips/campsite
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(1) NOTE: Saturday peak hour trip rate estimated based upon comparative trips rates presented for Land-Use Code #417 Regional Park. The trip rate for a typical Saturday peak hour for the noted regional park land-use is approximately 35% greater than the trip rate provided for the weekday PM peak hour of the site.

Accordingly, the proposed 250 campsite Nature's Wilderness Campground project can be expected to generate a total of 50 trips in the weekday morning peak hour of the street; 93 trips in the weekday evening peak hour of the street; 55 and 103_trips during the weekday morning and evening peak hours of the site, respectively, and approximately 139 trips on a typical summer Saturday peak hour.

NOTE: all further analysis was completed for the weekday PM peak hour of the site and Saturday peak hour conditions, which represent the two time periods with the highest volumes of site trip generation.

Site Trip Distribution: The Institute of Transportation Engineers handbook provides the following directional distribution rates for a Campground/Recreational Vehicle Park for both the weekday PM peak hour of the site and Saturday peak hour time periods:

Land-Use Code 416 - Campground/Recreational Vehicle Park

Weekday Peak Hour of Campground—PM Peak = 62% enter site/38% exit site = 48% enter site/52% exit site (1)

(1) NOTE: Saturday peak hour trip distribution percentages derived from Land-Use Code # 417 Regional Park.

Based upon the noted directional distribution patterns, 64 trips during the weekday PM peak hour of the site and 67 trips in the Saturday peak hour will enter the site and the remaining trips (39 Weekday PM Peak Hour trips and 72 Saturday peak hour trips) will exit the site.

Vehicle Trip Composition: This report has assumed all vehicle trips generated by the proposed project are "primary" or "new" vehicle trips to the area street network.

Vehicle Trip Assignment: Peak hour site trips generated by the proposed Nature's Wilderness Campground project were assigned to the adjacent roadway system based upon existing directional travel patterns as follows:

Depot Road = 25% SR 113 South = 40% SR 113 North = 35%

Figure 2 is a "stick" diagram that presents the assignment of the site trips to the study intersections.

FUTURE TRAFFIC

Annual Growth: Mr. Scott Efron anticipates the proposed Nature's Wilderness Campground project will be fully developed by 2021. MaineDOT's historical traffic data for three traffic count stations on State Route 113 (#35908, 36304, and 36308) in the general vicinity of Senator Black Road show a relative robust growth of average annual daily traffic (AADT) volume between the years of 2013 and 2016. The combined AADT volume of the three count stations in 2013 was 10,380 vehicles and the estimated AADT volumes in 2016 were 11,860 vehicles, an increase of 14.3%. To conservatively estimate future travel conditions at the study intersections, the 2017 design hour traffic volumes were increased by an annual growth rate of 1.048 per year to project 2021 travel conditions.

2021 Pre-Development Traffic for the study intersections are presented on Figure 3.

2021 Post-Development Traffic: 2021 Post-Development traffic forecasts were prepared for the study intersections by combining the 2021 pre-development travel forecasts illustrated on Figure 3 with the estimated site generated trips highlighted on Figure 2. Figure 4 presents the estimated 2021 post-development traffic forecasts for the proposed Nature's Wilderness Campground project.

MOBILITY ANALYSIS

Capacity analyses of both 2021 Pre- and Post-Development traffic conditions were performed utilizing the Synchro and SimTraffic computer models. Level of Service rankings are similar to the academic grading system, where an "A" is very good with little delay and "F" represents very poor conditions. The following table summarizes the relationship between delay and Level of Service for an unsignalized intersection:

Level of Service Criteria for Unsignalized Intersections

Level of Service	Total Control Delay (sec/veh)
A	Up to 10.0
В	10.1 to 15.0
C	15.1 to 25.0
D	25.1 to 35.0
E	35.1 to 50.0
F	Greater than 50.0

The results of the capacity analyses are presented in the following table:

<u>Level of Service Summary</u> 2021 Pre- and Post-Development Conditions

	202	21 Pre-De	evelopmen	t	20:	21 Post-D	evelopmen	t	
	Weekda Peak I	•	Saturda Ho	•	Weekda Peak I		Saturda; Hou		
Intersection/Approach	Delay (sec.)	LOS	Delay (sec.)	LOS	Delay (sec.)	LOS	Delay (sec.)	LOS	
SR 113 @ Senator Black Rd. (N)					- showing tools		draws to souls		
- SR 113 NB	1 sec.	A	1 sec.	A	1 sec.	A	1 sec.	A	
- SR 113 SB	1 sec.	A	1 sec.	A	1 sec.	A	1 sec.	A	
- Senator Black Road WB	5 sec.	A	6 sec.	A	5 sec.	A	6 sec.	A	
- Overall Intersection	1 sec.	1 sec.	A	1 sec.	A	1 sec.	A	1 sec.	A
SR 113 @ Senator Black Rd. (S)									
- SR 113 NB	1 sec.	A	1 sec.	A	1 sec.	A	1 sec.	A	
- SR 113 SB	1 sec.	A	1 sec.	A	1 sec.	A	1 sec.	A	
- Senator Black Road WB	4 sec.	A	6 sec.	A	7 sec.	A	8 sec.	A	
- Overall Intersection	1 sec.	A	1 sec.	A	1 sec.	A	2 sec.	A	
SR 113 @ Depot Road					-				
- SR 113 NB	2 sec.	Α	2 sec.	A	2 sec.	A	3 sec.	A	
- SR 113 SB	1 sec.	Α	2 sec.	A	1 sec.	A	2 sec.	A	
- Depot Rd. EB .	7 sec.	A	8 sec.	A	7 sec.	A	9 sec.	A	
- Overall Intersection	3 sec.	A	4 sec.	A	3 sec.	A	4 sec.	A	

Each of the three unsignalized study intersections, highlighted in the preceding table, operate overall at the highest or "best" level of service under both 2021 Pre- and Post-Development travel conditions.

VEHICLE SIGHT DISTANCE

Vehicle sight distance information will be provided under separate cover at a later date.

AUXILIARY LANE WARRANT ANALYSIS

The Maine Department of Transportation has published warrants for auxiliary left-turn lanes in their December 2004 Highway Design Manual. The warrants are predicated upon the volume of two-way traffic traveling on the designated highway; the volume of left-turning vehicles from the principal roadway to the minor roadway and the posted speed limit of the principal roadway. Each of the three study intersections located on State Route 113 were evaluated based upon projected 2021 post-development travel conditions. The following detail was applied in completing the analysis:

State Route 113 @ Senator Black Road (North) Intersection

Posted Speed Limit of SR 113 = 40mph

MaineDOT's Chart Reference (Figure 8-19)

Chart Inputs:

Weekday 1	PM Peak Hour	Saturday	Peak Hour
Va	= 220	Va	= 246
Vo	= 267	Vo	= 439
Lt%	= 11.8%	Lt%	= 10.1%

State Route 113 @ Depot Road

Posted Speed Limit of SR 113 = 50mph

MaineDOT's Chart Reference (Figure 8-18)

Chart Inputs:

	Weekday 1	PM Peak Hour	Saturday	Peak Hour
*	Va	= 226	Va	= 234
	Vo	= 198	Vo	= 292
	Lt%	= 34.0%	Lt%	=32.0%

State Route 113 @ Senator Black Road (South) Intersection

Posted Speed Limit of SR 113 = 55mph

MaineDOT's Chart Reference (Figure 8-17)

Chart Inputs:

Weekday	PM Peak Hour	Saturday	Peak Hour
Va	= 286	Va	= 281
Vo	= 276	Vo	=503
Lt%	= 8.0%	Lt%	= 7.8%

Copies of the respective charts with the superimposed traffic values are attached as an appendix to the report.

The analysis demonstrates that projected "build" travel conditions do not warrant or require consideration of a left-turn treatment at any of the three study intersections.

CONCLUSIONS/RECOMMENDATIONS

- The proposed Nature's Wilderness Campground project can be expected to generate a total of 103 vehicle trips during a typical weekday PM peak hour of the proposed site and a slightly greater volume of 139 vehicle trips in a Saturday peak hour.
- MaineDOT's Traffic Safety Bureau's latest three-year (2015 through 2017) safety report for the section of State Routes 113 between both intersections with Senator Black Road; the full length of Senator Black Road and the section of Marston Road between Senator Black Road and Brown Road shows the incidence of traffic crashes and corresponding critical rate factors at each identified intersection and road segment do not meet MaineDOT's threshold criteria for identification of a high crash location.

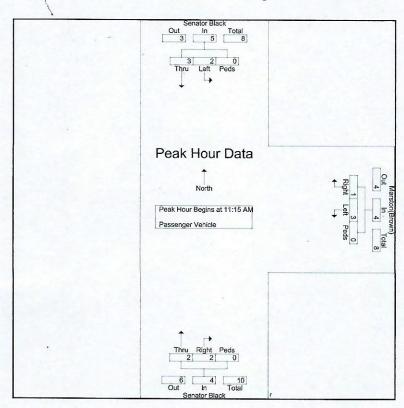
- Peak hour traffic generated by the proposed Nature's Wilderness Campground project has very minimal impact on traffic operations at each of the three study intersections along State Route 113. Each intersection, under both 2021 pre- and post-development traffic loadings is projected to operate at the highest or "best" level of service (Level of Service A) with very low levels of vehicle delay.
- The results of the auxiliary lane warrant analysis completed for each study intersection under forecast 2021
 post-development traffic loadings demonstrates a dedicated left-turn lane is not warranted at any of the three
 study intersections.
- The proposed Nature's Wilderness Campground project is projected to generate in excess of 100 passenger
 car equivalent trips during both the weekday PM peak hour of the street and the proposed site and during a
 typical Saturday peak hour; accordingly, the proposed project must file for and receive a Maine Department
 of Transportation Traffic Movement Permit for the project.

Baldwin: Senator Black & Marston(Brown) Saturday October 21, 2017

Sunny

Count By: Patrick Frie

File Name : Baldwin Senator Black & Marstons(Brown) 102117 Site Code : 00102117 Start Date : 10/21/2017 Page No : 5



Baldwin: Senator Black & Marstons(Brown)
Tuesday October 24, 2017
Cloudy with ocassional mist
Count By: Dawn-Marie Fahey

File Name : Baldwin Senator Black & Marstons(Brown) 102417 Site Code : 01024171 Start Date : 10/24/2017 Page No : 5

		Route From N	orth			Marston(From				Route From S			
Start Time	Thru	Left	Peds	App. Total	Right	Left	Peds	App. Total	Right	Thru	Peds	App. Total	Int. Tota
Peak Hour Analysis From 02	:00 PM to 05:	45 PM - Pea	k 1 of 1		-	1,			9	.,1		, , , , , , , ,	
Peak Hour for Entire Intersec	tion-Begins a	t 02:45 PM											
02:45 PM	† 1	0	0	1	0	0	0	0	4	1	0	5	
03:00 PM	0	0	0	0	1	1	0	2	1	Ó	0	1	
03:15 PM	0	0	0	0	0	1	0	1	Ó	0	0	0	,
03:30 PM	0	1	0	1	0	1	0	1	1	2	0	3	,
Total Volume	1	1	0	. 2	1	3	0	4	6	3	Ô	a	15
% App. Total	50	50	0		25	75	0		66.7	33.3	0		10
. PHF	.250	.250	.000	.500	.250	.750	.000	.500	.375	.375	.000	.450	.625

Senator Black Road

(North Int.)

5. R. 113

Baldwin:Senator Black & Rte 113 Loc#1

Monday October 16,2017

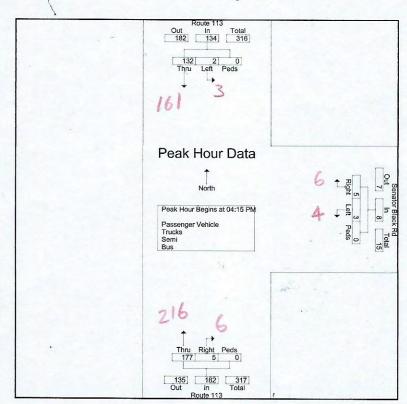
Cloudy

Count By: Dawn-Marie Fahey

File Name: Baldwin Senator Black & Route 113 Location #1 101617

Site Code : 01016171 Start Date : 10/16/2017

Page No : 6



Senator Black Road
(North Int.)

5. R. 113

Baldwin:Senator Black Rd & Rte 113 Loc1

Saturday October 14, 2017

Sunny

Count By: Dawn-Marie Fahey

File Name: Baldwin Senator Black & Route 113 Location #1 101417

Site Code : 00101417 Start Date : 10/14/2017

Page No : 5

		Route From N	1.00 mm			Senator B From				Route From S			
Start Time	Thru	Left	Peds	App. Total	Right	Left	Peds	App. Total	Right	Thru	Peds	App. Total	Int. Tota
eak Hour Analysis From 11:			k 1 of 1			*,	-			•			
eak Hour for Entire Intersec	tion•Begins a	t 11:00 AM											
11:00 AM	† 29 0		0	29	29 2 1		0	3	0	60	0	60	92
11:15 AM	44	1	0	45	0	1	0	1	0	109	0	109	155
11:30 AM	42	0	0	42	1	0	0	1	2	68	0	70	113
11:45 AM	35	0	0	35	0	2	0	2	2	57	0	59	96
Total Volume	150	1	0	151	3	4	0	7	4	294	0	298	456
% App. Total	99.3	0.7	0		42.9	57.1	0		1.3	98.7	0		
PHF	.852	.250	.000	.839	.375	.500	.000	.583	.500	.674	.000	.683	.735

		Route 113 From North	113 orth			From South	113 outh	T,		Depot Rd From West	t Rd West		
Start Time	Right	Thru	Peds	App. Total	Thru	Left	Peds	App. Total	Right	Left	Peds	App. Total	Int. Total
Peak Hour Analysis From 02:00 PM to 05:45 PM - Peak 1 of 1	::00 PM to 05:	45 PM - Pea	K 1 of 1										
Peak Hour for Entire Intersection Begins at 04:30 PM	ction Begins a	rt 04:30 PM											
04:30 PM	19	16	0	35	23	14	0	37	1	22	0	33	105
04:45 PM	13	15	0	28	26	7	0	37	80	7 21	0	29	94
05:00 PM	17	∞	0	25	29			39	, 01		0	29	93
05:15 PM	22	21	0	43	21	14	0	35	11	14	0	25	103
Total Volume	7.1	09	0	131	66	49	0	148	40	92	0	116	395
% App. Total	54.2	45.8	0		6.99	33.1	0		34.5	65.5	0		
PHF	.807	.714	000	.762	.853	.875	000	.949	606.	.864	000.	878	.940
	6	200			12	99			49	25			

Baldwin: Depot Rd & Route 113 Saturday October 28, 2017

Sunny Count By: Dawn-Marie Fahey

File Name: Baldwin Depot & Route 113 Location 1012817 Site Code: 01028171 Start Date: 10/28/2017 Page No: 5

Start Time Right Thru Peds App. Total Peak Hour Analysis From 11:00 AM to 02:45 PM - Peak 1 of 1 29 0 53 Peak Hour for Entire Intersection Begins at 12:45 PM 12:45 PM 19 29 0 42 01:00 PM 19 29 28 0 42 01:15 PM 29 28 0 42 01:30 PM 17 23 0 40 Total Volume 89 103 0 192 % App. Total 46,4 53.6 0 88 PHF 767 888 .000 842		From South		T	Pepot Road From West	oad		
000000	Total Thru	Left	Peds App. Total	Right	Left	Peds	App. Total	Int. Total
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0								
0 0 0 0 0 000.								
29 28 0 17 23 0 89 103 0 46,4 53.6 0 767 .888 .000		14		16	30	0	46	138
29 28 0 17 23 0 89 103 0 46,4 53.6 0 767 .888 .000		တ		13	7 26	0	36	107
17 23 0 89 103 0 46,4 53.6 0 .767 .888 .000		7		15		0	36	130
89 103 0 46.4 53.6 0 .767 .888 .000		15	0 51	7	29	0	36	127
.767 .888 .000		45		51	106	0	157	502
.888 .000	9'02	29.4	0	32.5	67.5	0		
	.842 .750	. 750	000 .750	797.	.883	000	.853	606.
721 601	251	25		29	521			

Senator Black Road
(South Int.)

6

5.R. 113

Baldwin: Senator Black & Rte 113 Loc2

Monday October 23, 2017

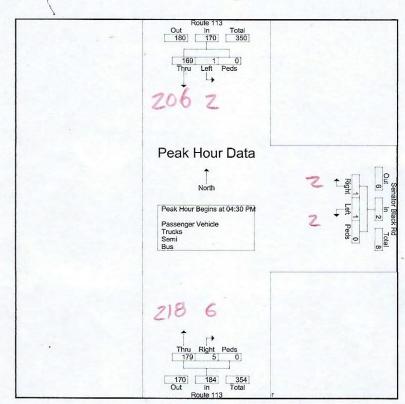
Cloudy

Count By: Dawn-Marie Fahey

File Name: Baldwin Senator Black & Route 113 Location #2 102417

Site Code : 01023171 Start Date : 10/23/2017

Page No : 6



Senator Black Road (South Int.) S.R. 113

Baldwin: Senator Black & Rte 113 Loc2

Saturday October 21, 2017

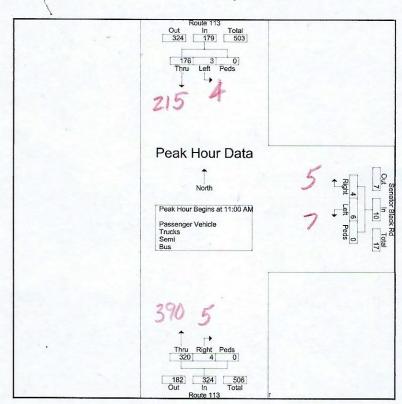
Sunny

Count By: Dawn-Marie Fahey

File Name: Baldwin Senator Black & Route 113 Location #2 102117

Site Code : 02102117 Start Date : 10/21/2017

Page No : 6



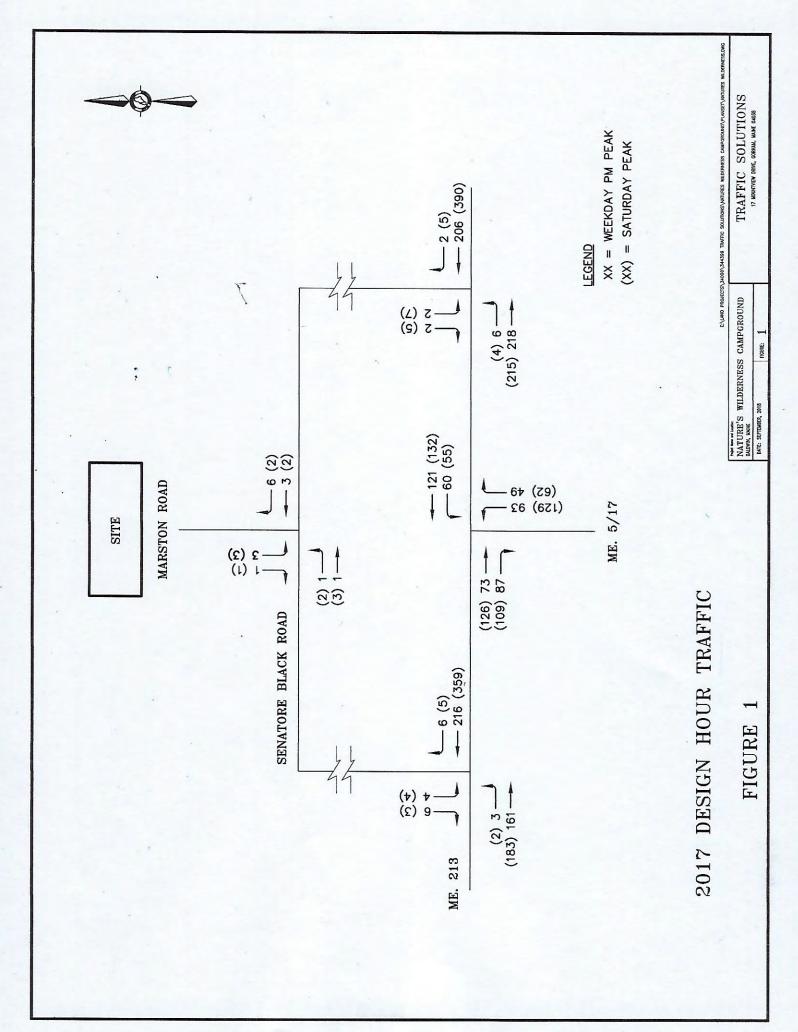
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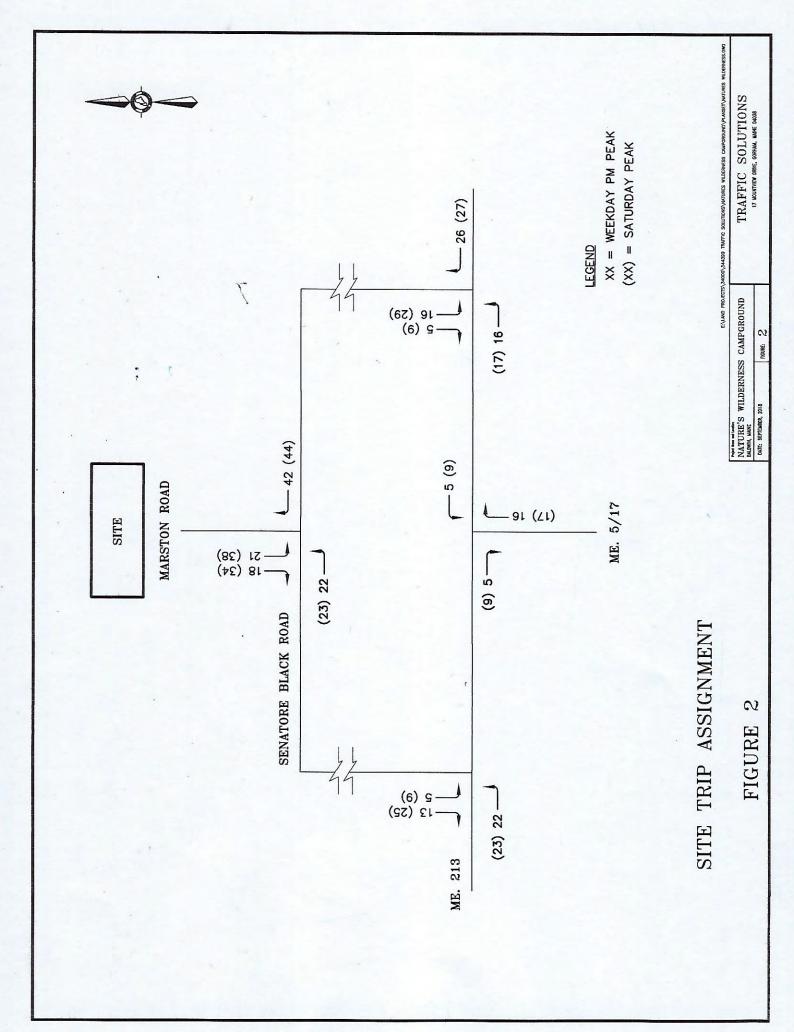
County

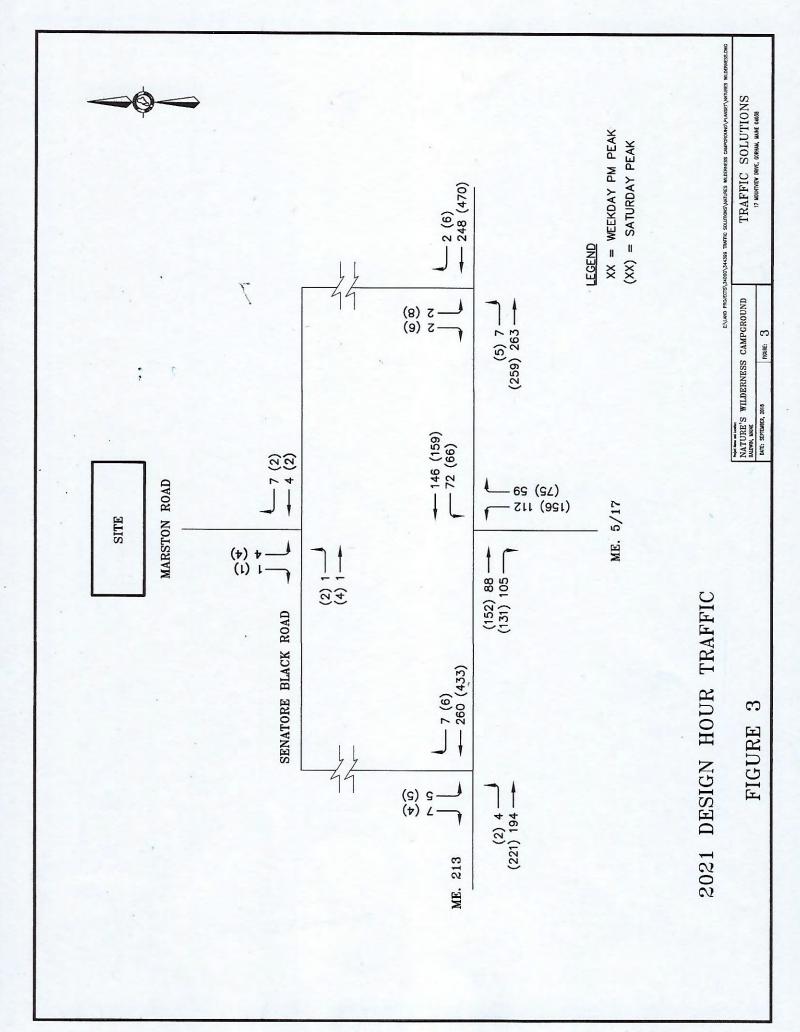
Cumberland TOWN	STA	ROAD-PN	LOCATION	GROUP	AADT12	AADT13	AADT14	AADT15	AADT16	AADT17
BALDWIN	40508	01729-6	IR 1729(SAND PD) NW/O SR 11/107(BRDGTN)	I	i	70 C	1	ı	ı	i
BALDWIN	34808	05030-6	IR 503 (CRAWFORD) NW/O IR 624 @ BR# 2098	<u> </u>	i	1,	ı	è	S 09	1
BALDWIN	36402	05030-6	IR 5030 (DOUGLAS HILL) NE/O SR 5/113/117	1		1	i	1	640 C	i
BALDWIN	71608	00620-6	IR 620 (MOUNTAIN RD) NW/O IR 627	I	·	160 C	•	1	i	á
BALDWIN	86207	00624-6	IR 624 (DOUGLAS HILL) W/O IR 623@BR#5036	П	1	320 C	í	i	310 C	i
BALDWIN	71604	00627-6	IR 627 (CRAM RD) SE/O IR 626	П		,	i	i	180 C	i
BALDWIN	31203	9-06900	IR 630 (SEN. BLACK RD) E/O SR 5/113/117	I	į	•	ī	ı	140 C	j.
BALDWIN	36008	00631-6	IR 631 (BROWN) NW/O SR 113 (PEQUAWET TR)	Ι	•	159 C	ı	1	150 C	à.
BALDWIN	71406	00635-6	IR 635 (PIGEON BK) SW/O SR 113 (E JCT)	H	i	250 C	i	,		
BALDWIN	31107	9-98900	IR 636 (FREEMONT) W/O SR 11/107 (BRDGTN)	П	1	480 C	à		620 C	i
BALDWIN	35801	0107X-5	SR 107(BRIDGTON) N/O SR11(SEBAGO)@BR5045	П		O 096	ı	į	1200 S	i,
BALDWIN	35805	0011X-4	SR 11 S/O SR 107	П	,	•	•	1	2090 C	r
BALDWIN	35803	0011X-4	SR 11(SEBAGO RD) E/O SR 107 @ BR# 3693	П	-1	810 C	ì		1180 S	į
BALDWIN	31101	0011X-4	SR 11/107 (BRDGTON) N/O IR 636(FREEMONT)	П	1	1700 C	i	ı		1
BALDWIN	35901	0011X-4	SR 11/107 (BRIDGTON RD) N/O SR 113	П	•	1370 C	ı	į.	1540 S	ŧ
BALDWIN	35904	0011X-4	SR 11/113 SE/O SR 11/107 @BR# 2694	п		4120 C		1	4700 C	1
BALDWIN	36007	0113X-4	SR 113 (PEQUAWET TR) W/O IR 631 (BROWN)	П	,	3460 C	ı	ì		į
BALDWIN	35908	0113X-4	SR 113 (PEQUAWKET TR) NW/O SR 11/107	П	r	3380 C	i	î	3300 C	í
BALDWIN	36304	0113X-4	SR 113 (PEQUAWKET TR) SE/O SR 5/117	п		3190 C		ı	3760 C	1
BALDWIN	36308	0005X-3	SR 5/113/117 (PEQUAWET TR) NW/O SR 5/117	П		3810 C		ı	4800 C	1
BALDWIN	36500	0005X-3	SR 5/113/117 @ HIRAM TL	П	1	í			4040 C	ı
BALDWIN	36206	0005X-3	SR 5/117 SW/O IR 634 @ CORNISH TL	П	ı	3130 C		,	3530 C	
BALDWIN	36306	0005X-3	SR 5/117 SW/O IR 8126 (ROCKY DUNN RD)	П		i.	i	,	3550 C	
BRIDGTON	07503	02033-6	BRICKYARD HILL RD E/O OLD ELM RD@BR#3607	7 III	·	110 C	ı	ì		ı
BRIDGTON	04704	02033-6	BRICKYARD HILL RD SE/O SR 117	H	1	100 C	·	r	,	i
BRIDGTON	08103	00592-6	BURNHAM RD E/O SR 107 (S BRIDGTON RD)	I		380 C		ì		
BRIDGTON	08207	05028-6	BURNHAM RD W/O US 302 (ROOSEVELT TR)	Ι	i	410 C	i	1	470 C	i
BRIDGTON	06905	00572-6	CHADBOURNE HILL RD NE/O HIGHLAND RD	Ш		440 C	÷	i		i
BRIDGTON	07307	00572-6	CHADBOURNE HILL RD W/O SR 37(N BRIDGTON)	ш (•	520 C		i	200 C	ì
BRIDGTON	00403	04028-6	CHURCH ST E/O S HIGH ST	H+H		280 C	. 1	•	,	ì
BRIDGTON	01505	04028-6	CHURCH ST S/O US 302 (MAIN ST)	111+111	i	Seo C	i	ř	ı	
BRIDGTON	03401	00582-6	CROSS ST N/O MAIN ST	III+III	1	200 C	1	i		ì

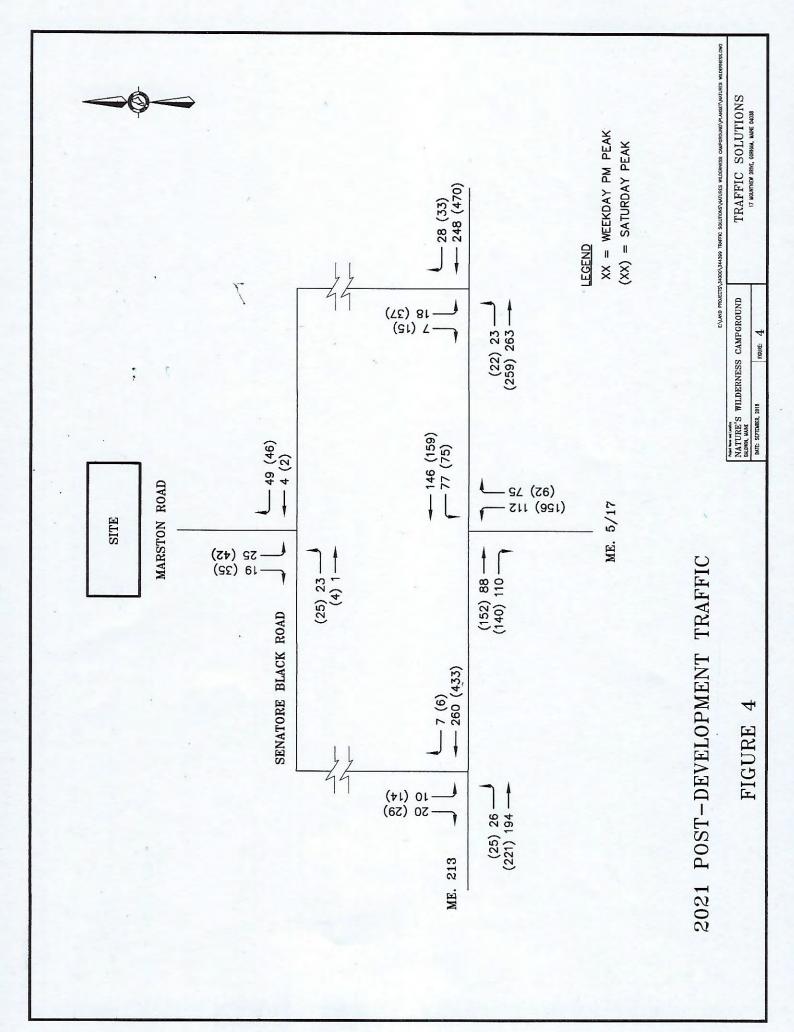
Friday, June 08, 2018

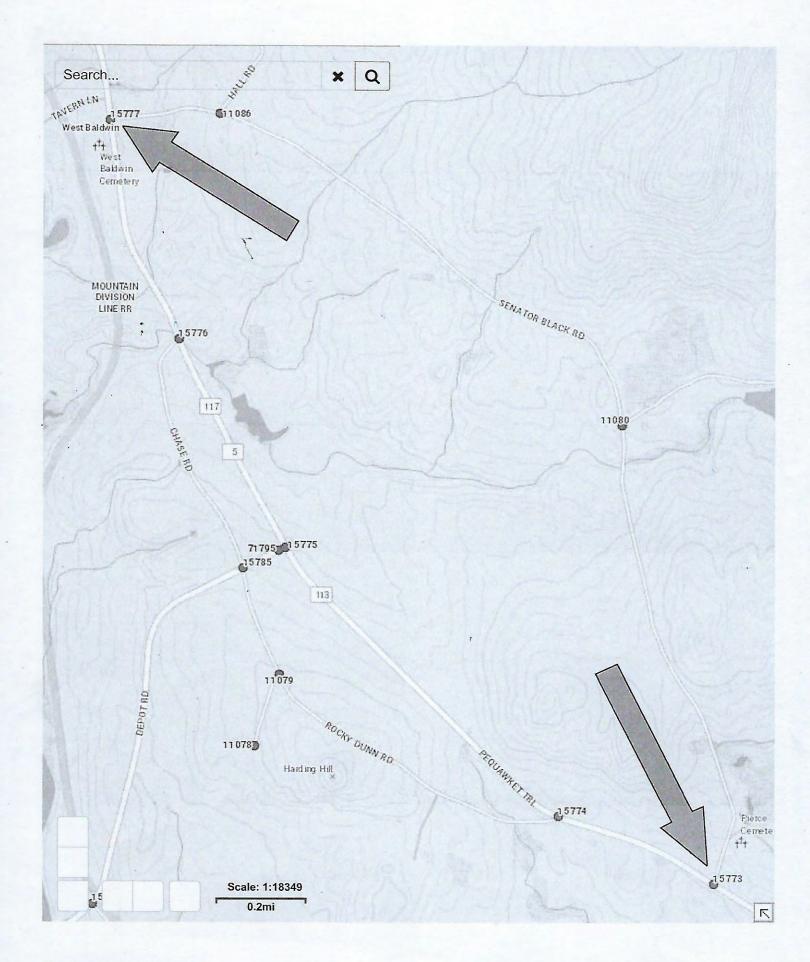
Page 1 of 69











Start Offset: 0 End Offset: 0 Start Offset: 0 End Offset: 0 End Offset: Year 2015, Start Month 1 through Year 2017 End Month: 12 Start Node: 15773 End Node: 15775 Start Node: 15775 End Node: 15777 REPORT PARAMETERS Route: 0113X Route: 0005X

✓ Exclude First Node
□ Exclude Last Node

☐ Exclude First Node ☐ Exclude Last Node

✓ 1320 Summary

☐ 1320 Private

☐1320 Public,

✓ Crash Summary II

Section Detail

REPORT SELECTIONS

Crash Summary I

Baldwin Rte. 113 from Senator Black Rd-South to Senator Black Rd-North

REPORT DESCRIPTION

Maine Department Of Transportation - Traffic Engineering, Crash Records Section

Crash Summary Report
Report Selections and Input Parameters

Page 2 of 45 on 8/27/2018, 7:14 AM

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Traffic Engineering, Crash Records Section
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		Crash Summary I	Summ	ary	_								
			Nodes										
Node Route - MP	Node Description	U/R	U/R Total		Injury Crashes	Cra	shes		Percent A	Percent Annual M. Crash Pate Critical	eh Data	Critical	100
			Crashes K A B C PD Injury Ent-Veh	¥	⋖	œ	ပ	PD	Injury	Ent-Veh	asii Ivate	Rate	25
15774 0113X - 11.18	15774 0113X - 11.18 Int of PEQUAWKET TRL ROCKY DUNN RD	_	0	0	0	0	6	0	0.0	1.422 Statewi	22 0.00 Statewide Crash Rate:	0.46	0.00
15773 0113X - 10.80	15773 0113X - 10.80 Int of PEQUAWKET TRL SENATOR BLACK RD	7	0	0	0	0	0	0	0.0	1.478 Statewi	78 0.00 Statewide Crash Rate:	0.46	0.00
15775 0113X - 12.03	15775 0113X - 12.03 Int of DEPOT RD PEQUAWKET TRL	-	9	0	0	7	0	7	2.99	2.248 Statewi	18 0.89 Statewide Crash Rate	0.41	2.15
15776 0005X - 41.12	15776 0005X - 41,12 Int of CHASE RD PEQUAWKET TRL	~	0	0	0	0	0	0	0.0	1.784 Statewi	84 0.00 Statewide Crash Rate:	0.44	0.00
15777 0005X - 41.64	15777 0005X - 41.64 Int of PEQUAWKET TRL SENATOR BLACK RD	1	0	0	0	0 ,	0	0	0.0	1.756 Statewic	Statewide Crash Rate:	0.44	0.00
Study Years: 3.00	NOL	NODE TOTALS:	9	0	0	2	2	7	66.7	8.688	0.23	0.29	0.79

Maine Department Of Transportation - Traffic Engineering, Crash Records Section Crash Summary I

							Sections	ons									
Start		End Element		Route - MP	Section U/R Total	U/R	Total Crachee 17	>	Injur	(7)	shes	Percen	ercent	Annual	Percent Annual Crash Rate Critical	Critical	CRF
2001	2004		Degill - Ella		TO INC.		1 431163	<	4	מ	د	20	infan y	IAI A IAIL	The state of the s	Nate	
15773 Int of PEQ	15774 UAWKET TI	3105870 RL SENATO	15773 15774 3105870 0 - 0.38 Int of PEQUAWKET TRL SENATOR BLACK RD	15773 15774 3105870 0 - 0.38 0113X - 10.80 at of PEQUAWKET TRL SENATOR BLACK RD ST RTE 113	0.38	-	ო	0	0	-	0	2,	33.3	0.00537	186.20 419.05 Statewide Crash Rate: 178.75	186.20 419.05 le Crash Rate: 178.75	0.00
15774 Int of PEQ	15775 UAWKET TI	15774 15775 3100368 0 - 0.85 Int of PEQUAWKET TRL ROCKY DUNN RD	0 - 0.85 JUNN RD	0113X - 11.18 · ST RTE 113	0.85	-	ω	0	0	7	0	4	33.3	0.01.186	168.58 347.26 Statewide Crash Rate: 178.75	168.58 347.26 e Crash Rate: 178.75	0.00
15775 Int of DEP	15776 OT RD PEC	15775 15776 3105871 0 - 0.52 Int of DEPOT RD PEQUAWKET TRL	0 - 0.52	0005X - 40.60 ST RTE 5	0.52	-	က	0	0	0	~	7	33.3	0.00927	107.92 367.33 Statewide Crash Rate: 178.75	107.92 367.33 e Crash Rate: 178.75	0.00
15776 Int of CHA	15777 SE RD PEC	15776 15777 3105873 0 - 0.52 nt of CHASE RD PEQUAWKET TRL	0 - 0.52	0005X - 41.12 ST RTE 5	0.52	-	ო	0	-	0	0	7	33.3	0.00913	109.49 368.57 Statewide Crash Rate: 178.75	109.49 368.57 e Crash Rate: 178.75	0.00
Study Y	Study Years: 3.00	00		Section Totals:	2.27		15	0	-	က	-	10	33.3	1 10 33.3 0.03563	140.32	279.41	0.50
				Grand Totals:	2.27		21	0	0 1 5		က	12	42.9	3 12 42.9 0.03563	196.44	196.44 319.09	0.62

Page 1 of 12 on 8/27/2018, 7:43 AM

Maine Department Of Transportation - Traffic Engineering, Crash Records Section Crash Summary Report

	e ⊠1320 Summary			Node Node
	1320 Private		7	✓ Exclude First Node □ Exclude Last Node
t Parameters	□1320 Public	•		
Report Selections and Input Parameters	✓ Crash Summary II			Start Offset: 0 End Offset: 0
	☐ Section Detail	Black Rd. to Brown Rd.	REPORT PARAMETERS Year 2015, Start Month 1 through Year 2017 End Month: 12	Start Node: 11080 End Node: 15317
	REPORT SELECTIONS Crash Summary I	REPORT DESCRIPTION Baldwin Martson Rd. from Senator Black Rd. to Brown Rd.	REPORT PARAMETERS Year 2015, Start Month 1 t	Route: 0500628

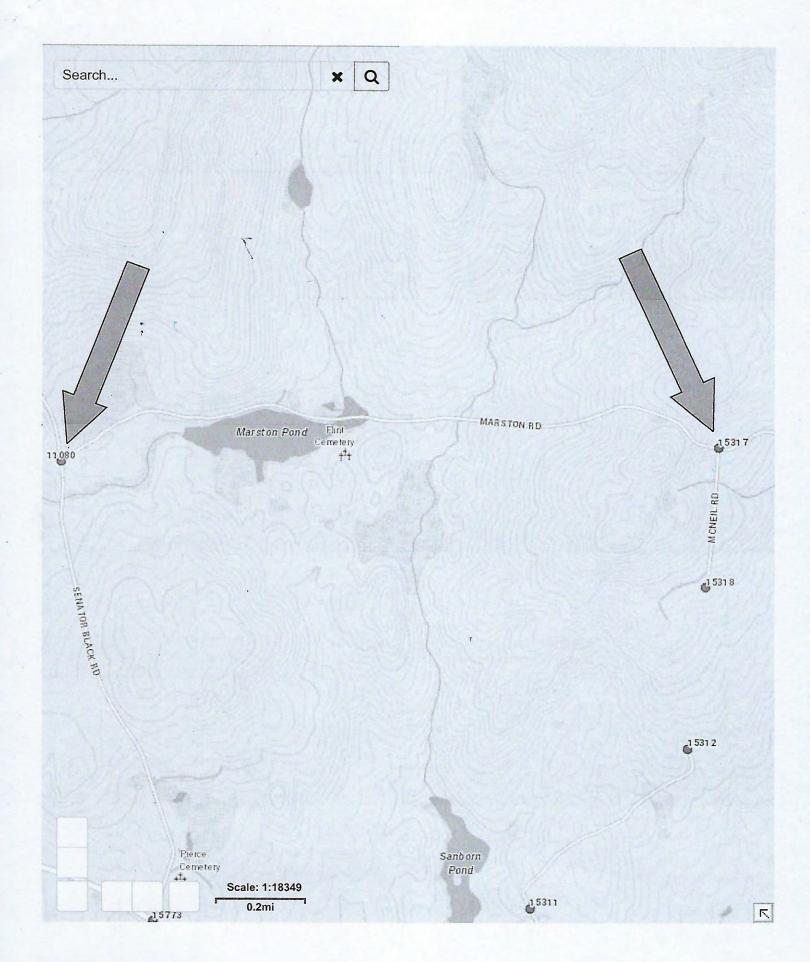
Maine Department Of Transportation - Traffic Engineering, Crash Records Section

Crash Summary |

			2	Nodes										
Node	Node Route - MP	Node Description	U/R	U/R Total		Injury	Cras	Set	Pe	rcent	Innual M	Total Injury Crashes Percent Annual M. Crash Rate Critical CRF	Critical	CRF
				Crashes	¥	4	В	ပ	- ۵	Jury	Ent-Veh		Rate	
15317	15317 0500628 - 1.54 Int of BROWN RD MARSTON RD MCNEIL RD	I RD MARSTON RD MCNEIL RD	-	0	0	0	0	0.	0	0.0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 State	17 0.00 -5.74 0.00 Statewide Crash Rate: 0.13	-5.74	0.00
Study Ye	Study Years: 3.00	NODE TOTALS: 0 0 0 0 0 0 0.0 0.017	ii	0	0	0	0	0	0	0.0	0.017	0.00	0.00 -5.77 0.00	0.00

Maine Department Of Transportation - Traffic Engineering, Crash Records Section Crash Summary I

							Sections	sug	tions								
Start Node		End Element Offset Node Begin - Er	Offset Begin - End	Route - MP	Section U/R Total Length Crashes	R To Cras	shes	×	Injury	Crasl	hes C	Oc I	ercent njury	Annual	ction U/R Total Injury Crashes Percent Annual Crash Rate Critical CRF ingth Crashes K A B C PD Injury HMVM	Critical Rate	CRF
11080 Int of MARS	15317 TON RD'S	11080 15317 184914 0 - 1.54 nt of MARSTON RD SENATOR BLACK RD	11080 15317 184914 0 - 1.54 0500628 - 0 at of MARSTON RD SENATOR BLACK RD RD INV 05 0	0500628 - 0 RD INV 05 00628	1.54 1 0 0 0 0 0 0 0		0	0	0	0	0	0;	0.0	0.0 0.00026	0.00 996.20 Statewide Crash Rate: 232.00	996.20 ate: 232.00	0.00
Study Years: 3.00	ars: 3.	00		Section Totals:	1.54)	0	0	0	0	0	0	0.0	0 0 0 0 0 0 0.0 0.00026	0.00	0.00 996.24 0.00	0.00
				Grand Totals:	1.54		0	0	0	0	0	0	0.0	0 0 0 0 0 0.0 0.00026	0.00	0.00 1092.74 0.00	0.00



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Maine Department Of Transportation - Traffic Engineering, Crash Records Section Crash Summary Report

Report Selections and Input Parameters

✓1320 Summary			Node
1320 Private		7	✓ Exclude First Node ✓ Exclude Last Node
1320 Public	,		
✓ Crash Summary II			Start Offset: 0 End Offset: 0
Section Detail	REPORT DESCRIPTION Baldwin Senator Black Rd from Rte 113-South to Rte 113-North	REPORT PARAMETERS Year 2015, Start Month 1 through Year 2017 End Month: 12	Start Node: 15773 End Node: 15777
REPORT SELECTIONS Crash Summary I	REPORT DESCRIPTION Baldwin Senator Black Rd from Rte	REPORT PARAMETERS Year 2015, Start Month 1 t	Route: 0500630

Page 2 of 12 on 8/27/2018, 7:21 AM

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Crash Summary I

			2	Nodes										
Node	Route - MP Node	Node Description	U/R	U/R Total Crashes	×	Injury A	Cras	shes	9 09	ercent/ Injury	Annual M Ent-Veh	Total Injury Crashes Percent Annual M Crash Rate Critical CRF Crashes K A B C PD Injury Ent-Veh	Critical Rate	CRF
11080	11080 0500630 - 1.08 Int of MARSTON RD SENATOR BLACK RD	ATOR BLACK RD	-	0	0	0	0	0	0	0.0	0.058 State	0 0 0 0 0 0 0 0.0 0.058 0.00 -0.53 0.00 Statewide Crash Rafe: 0.13	-0.53	0.00
11086	11086 0500630 - 2.24 Int of HALL RD, SENATOR BLACK RD	BLACK RD	~	0	0	0	0	0	0	0.0	0 0 0 0 0 0 0.0 0.049	049 0.00 -0.84 0.00 Statewide Crash Rate: 0.13	-0.84	0.00
Study Y	Study Years: 3.00	NODE TOTALS:	:0	0	0	0	0	0	0	0.0	0 0 0 0 0 0 0.0 0.107	0.00	0.00 0.15 0.00	0.00

Maine Department Of Transportation - Traffic Engineering, Crash Records Section Crash Summary I

County of the last	The same of the sa		The state of the s					Contract Manager	•		STATE OF THE PARTY OF		The state of the s				
							Sections	suo									
	End	Element	Element Offset	Route - MP	Section U/R Total	U/R	Total		Injui	Injury Crashes	shes		Percent	Annual	Percent Annual Crash Rate Critical	Critical	CRF
Node	Node		Begin - End		Length		Crashes K		4	В	ပ	PD	A B C PD Injury	HMVM		Rate	
11080 15773 184915 0 - 1.0 int of MARSTON RD SENATOR BLACK RD	15773 ON RD	184915 SENATOR BI	11080 15773 184915 0 - 1.08 0500630 - 0 at of MARSTON RD SENATOR BLACK RD RD INV 05 0	0500630 - 0 RD INV 05 00630	1.08 1	-	0	0	0	0	0	0	0.0	0.0 0.00064	0.00 866.29 Statewide Crash Rate: 232.00	0.00 866.29 Crash Rate: 232.00	0.00
11080 11086 184913 - 0 - 1.1	11086 ON RD 8	184913 SENATOR BI	11080 11086 184913 - 0 - 1.16 trof MARSTON RD SENATOR BLACK RD	0500630 - 1.08 . RD INV 05 00630	1.16	_	0	0	0	0	0	0	0.0	0.00045	0.00 928.41	0.00 928.41	0.00
11086 15777 184927 C Int of HALL RD, SENATOR BLACK RD	15777 D, SENA	184927 TOR BLACK	11086 15777 184927 0 - 0.26 at of HALL RD, SENATOR BLACK RD		0.26 1	-	0	0	0 0 0	0	0	0	0.0	0.0 0.00013	0.00 946.64 Statewide Crash Rate: 232.00	0.00 946.64 Crash Rate: 232.00	0.00
Study Years: 3.00	ırs: 3.	00		Section Totals:	2.50		0	0	0	0	0	0	0.0	0 0 0 0 0 0.0 0.00123	0.00	0.00 742.35	0.00
				Grand Totals:	2:50		0	0	0 0 0 0 0	0	0		0.0	0.0 -0.00123	00.00	0.00 799.78	0.00

Summary of All Intervals

Run Number		2	4	5	6	7	Avg
Start Time		4:57	4:57	4:57	4:57	4:57	4:57
End Time		6:00	6:00	6:00	6:00	6:00	6:00
Total Time (min)		63	63	63	63	63	63
Time Recorded (min)		60	60	60	60	60	60
# of Intervals		2	2	2	2	2	2
# of Recorded Intervals		1	1	1	1	1	1
Vehs Entered		1586	1533	1583	1543	1651	1579
Vehs Exited		1586	1539	1592	1546	1656	1585
Starting Vehs .		18	16	23	17	25	20
Ending Vehs	1	18	10	14	14	20	13
Travel Distance (mi)	1	689	670	694	673	721	689
Travel Time (hr)	48	17.6	17.2	17.7	17.2	18.5	17.6
Total Delay (hr)		0.9	0.9	1.0	0.9	1.0	0.9
Total Stops		207	190	207	198	205	202
Fuel Used (gal)		22.0	21.4	21.8	21.2	22.9	21.9

Interval #0 Information Seeding

Start Time	4:57
End Time	5:00
Total Time (min)	3
Volumes adjusted by Grov	wth Factors.
No data recorded this inte	

Interval #1 Information Recording

Start Time	5:00
End Time	6:00
Total Time (min)	60
Volumes adjusted by Grow	th Factors.

Run Number	2	4	5	6	7	Avg	
Vehs Entered	1586	1533	1583	1543	1651	1579	
Vehs Exited	1586	1539	1592	1546	1656	1585	
Starting Vehs	18	16	23	17	25	20	-
Ending Vehs	18	10	14	14	20	13	
Travel Distance (mi)	689	670	694	673	721	689	
Travel Time (hr)	17.6	17.2	17.7	17.2	18.5	17.6	
Total Delay (hr)	0.9	0.9	1.0	0.9	1.0	0.9	
Total Stops	207	190	207	198	205	202	
Fuel Used (gal)	22.0	21.4	21.8	21.2	22.9	21.9	

3: Route 113 & Senator Black Rd (N) Performance by approach

Approach	WB	NB	SB	All	
Denied Del/Veh (s)	0.1	0.2	0.2	0.2	
Total Del/Veh (s)	4.6	0.5	0.3	0.6	

7: Route 113 & Route 5/17 Performance by approach

Approach	EB	NB	SB	All	
Denied Del/Veh (s)	0.2	0.2	0.2	0.2	
Total Del/Veh (s)	6.5	2.1	1.2	3.0	

11: Route 113 & Senator Black Rd (S) Performance by approach

Approach	EB	WB	SB	All	
Denied Del/Veh (s)	0.2	0.2	0.1	0.2	
Total Del/Veh (s)	0.3	0.3	3.8	0.4	

Total Network Performance

Denied Del/Veh (s)	0.2	
Total Del/Veh (s)	1.9	

Intersection: 3: Route 113 & Senator Black Rd (N)

Movement	WB	SB	
Directions Served	LR	LT	
Maximum Queue (ft)	36	22	
Average Queue (ft)	11	1	
95th Queue (ft)	35	10	
Link Distance (ft)	1006	1191	
Upstream Blk Time (%)	E011111111		
Queuing Penalty (veh)			
Storage Bay Dist (ft)			
Storage Blk Time (%)			
Queuing Penalty (veh)	1.	1	THE SECRETARY OF SECULOR SECTION SECTI
	1		

Intersection: 7: Route 113 & Route 5/17

Movement	EB	NB	SB	
Directions Served	LR	LT	TR	
Maximum Queue (ft)	101	56	4	
Average Queue (ft)	50	13	0	The state of the s
95th Queue (ft)	80	41	3	
Link Distance (ft)	1205	1245	1241	
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)			STATE OF	
Storage Blk Time (%)				
Queuing Penalty (veh)	Market Parky		ALE DE	

Intersection: 11: Route 113 & Senator Black Rd (S)

EB	SB	
LT	LR	
15	27	
1	4	
7	19	
913	1176	
	LT 15 1 7	LT LR 15 27 1 4 7 19

Network Summary

Network wide Queuing Penalty: 0

Summary of All Intervals

Run Number		2	3	4	5	6	Avg	
Start Time		4:57	4:57	4:57	4:57	4:57	4:57	
End Time		6:00	6:00	6:00	6:00	6:00	6:00	
Total Time (min)		63	63	63	63	63	63	
Time Recorded (min)		60	60	60	60	60	60	
# of Intervals		2	2	2	2	2	2	
# of Recorded Intervals		1	1	1	1	1	1	
Vehs Entered		2146	2107	2080	2131	2160	2126	-
Vehs Exited		2142	2101	2079	2134	2155	2122	
Starting Vehs ,		23	17	24	23	21	21	
Ending Vehs	1	27	23	25	20	-26	24	
Travel Distance (mi)	7	932	910	902	928	939	922	
Travel Time (hr)		24.0	23.6	22.9	23.7	24.2	23.7	
Total Delay (hr)		1.7	1.6	1.4	1.5	1.7	1.6	
Total Stops		277	300	257	272	270	277	
Fuel Used (gal)		29.9	29.0	28.7	29.6	29.8	29.4	

Interval #0 Information Seeding

Start Time	4:57
End Time	5:00
Total Time (min)	3
Volumes adjusted by Grow	th Factors.
No data recorded this inter-	

Interval #1 Information Recording

Start Time	5:00
End Time	6:00
Total Time (min)	60
Volumes adjusted by Grow	th Factors.

Run Number	2	3	4	5	6	Avg	
Vehs Entered	2146	2107	2080	2131	2160	2126	
Vehs Exited	2142	2101	2079	2134	2155	2122	
Starting Vehs	23	17	24	23	21	21	
Ending Vehs	27	23	25	20	26	24	
Travel Distance (mi)	932	910	902	928	939	922	
Travel Time (hr)	24.0	23.6	22.9	23.7	24.2	23.7	
Total Delay (hr)	1.7	1.6	1.4	1.5	1.7	1.6	
Total Stops	277	300	257	272	270	277	
Fuel Used (gal)	29.9	29.0	28.7	29.6	29.8	29.4	

3: Route 113 & Senator Black Rd (N) Performance by approach

Approach	WB	NB	SB	All	
Denied Del/Veh (s)	0.1	0.3	0.2	0.3	
Total Del/Veh (s)	5.6	0.7	0.4	0.7	

7: Route 113 & Route 5/17 Performance by approach

Approach	EB	NB	SB	All	
Denied Del/Veh (s)	0.2	0.2	0.3	0.2	
Total Del/Veh (s)	8.1	2.2	1.8	3.9	

11: Route 113 & Senator Black Rd (S) Performance by approach

Approach	EB	WB	SB	All	
Denied Del/Veh (s)	0.2	0.4	0.1	0.3	
Total Del/Veh (s)	0.4	0.6	5.9	0.6	

Total Network Performance

Denied Del/Veh (s)	0.3	
Total Del/Veh (s)	2.4	

Intersection: 3: Route 113 & Senator Black Rd (N)

Movement	WB	
Directions Served	LR	
Maximum Queue (ft)	36	
Average Queue (ft)	10	
95th Queue (ft)	33	
Link Distance (ft)	1006	
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)	The state of the s	
Storage Blk Time (%)		
Queuing Penalty (veh)	1	
	-	

Intersection: 7: Route 113 & Route 5/17

Movement	EB	NB	SB	
Directions Served	LR	LT	TR	
Maximum Queue (ft)	101	57	9	VALUE OF STREET
Average Queue (ft)	59	15	0	
95th Queue (ft)	93	44	5	
Link Distance (ft)	1205	1245	1241	A DAMESTIC OF SECOND
Upstream Blk Time (%)		MARIE	The state of	
Queuing Penalty (veh)				
Storage Bay Dist (ft)				
Storage Blk Time (%)				TO SHARE WAS ASSESSED.
Queuing Penalty (veh)				

Intersection: 11: Route 113 & Senator Black Rd (S)

Movement	EB	SB	
Directions Served	LT	LR	
Maximum Queue (ft)	21	41	
Average Queue (ft)	2	11	
95th Queue (ft)	1.2	34	
Link Distance (ft)	913	1176	
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)	THE REAL PROPERTY.		
Storage Blk Time (%)			
Queuing Penalty (veh)			

Network Summary

Network wide Queuing Penalty: 0

Summary of All Intervals

Run Number		1	3	4	5	7	Avg	-
Start Time		4:57	4:57	4:57	4:57	4:57	4:57	
End Time		6:00	6:00	6:00	6:00	6:00	6:00	
Total Time (min)		63	63	63	63	63	63	
Time Recorded (min)		60	60	60	60	60	60	
# of Intervals		2	2	2	2	2	2	
# of Recorded Intervals		1	1	1	1	1	1	
Vehs Entered		1678	1695	1659	1686	1718	1688	
Vehs Exited		1674	1694	1662	1690	1722	1688	
Starting Vehs ,		17	21	16	18	22	19	
Ending Vehs	1	21	22	13	14	18	15	
Travel Distance (mi)	7	730	737	724	736	750	735	
Travel Time (hr)		19.4	19.5	19.0	19.3	19.8	19.4	
Total Delay (hr)		1.2	1.2	1.1	1.1	1.3	1.2	
Total Stops		253	261	257	260	268	258	
Fuel Used (gal)		23.8	23.9	23.6	23.8	24.2	23.8	

Interval #0 Information Seeding

Start Time 4:57
End Time 5:00
Total Time (min) 3
Volumes adjusted by Growth Factors.
No data recorded this interval.

Interval #1 Information Recording

Start Time 5:00
End Time 6:00
Total Time (min) 60
Volumes adjusted by Growth Factors.

Run Number		3	4	5	7	Avg	-
Vehs Entered	1678	1695	1659	1686	1718	1688	
Vehs Exited	1674	1694	1662	1690	1722	1688	
Starting Vehs	17	21	16	18	22	19	
Ending Vehs	21	22	13	14	18	15	
Travel Distance (mi)	730	737	724	736	750	735	
Fravel Time (hr)	19.4	19.5	19.0	19.3	19.8	19.4	
Total Delay (hr)	1.2	1.2	1.1	1.1	1.3	1.2	
Total Stops	253	261	257	260	268	258	
Fuel Used (gal)	23.8	23.9	23.6	23.8	24.2	23.8	

3: Route 113 & Senator Black Rd (N) Performance by approach

Approach	WB	NB	SB	All	
Denied Del/Veh (s)	0.1	0.2	0.2	0.2	
Total Del/Veh (s)	4.1	0.5	0.8	0.8	

7: Route 113 & Route 5/17 Performance by approach

Approach	EB	NB	SB	All	
Denied Del/Veh (s)	0.2	0.2	0.2	0.2	
Total Del/Veh (s)	7.1	1.9	1.2	3.3	

11: Route 113 & Senator Black Rd (S) Performance by approach

Approach	EB	WB	SB	All	
Denied Del/Veh (s)	0.2	0.2	0.1	0.2	
Total Del/Veh (s)	0.8	0.6	6.9	1.0	

Total Network Performance

Denied Del/Veh (s)	0.2	
Total Del/Veh (s)	2.3	

Intersection: 3: Route 113 & Senator Black Rd (N)

LR	LT
45	40
20	5
45	25
1006	1191
1	
	45 20 45

Intersection: 7: Route 113 & Route 5/17

Movement	EB	NB	SB
Directions Served	LR	LT	TR
Maximum Queue (ft)	119	55	4
Average Queue (ft)	53	10	0
95th Queue (ft)	92	36	4
Link Distance (ft)	1205	1245	1241
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)			
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 11: Route 113 & Senator Black Rd (S)

EB	SB	
LT	LR	
32	51	
3	19	
1.7	45	RAME STATE OF THE
913	1176	
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TIME TO		THE RESIDENCE OF THE PARTY OF T
	LT 32 3 17	LT LR 32 51 3 19 17 45

Network Summary

Network wide Queuing Penalty: 0

Summary of All Intervals

Run Number		2	3	4	5	6	Avg	
Start Time		4:57	4:57	4:57	4:57	4:57	4:57	
End Time		6:00	6:00	6:00	6:00	6:00	6:00	-
Total Time (min)		63	63	63	63	63	63	
Time Recorded (min)		60	60	60	60	60	60	
# of Intervals		2	2	2	2	2	2	
# of Recorded Intervals		1	1	1	1	1	1	
Vehs Entered		2335	2255	2294	2305	2285	2298	
Vehs Exited		2332	2245	2295	2315	2284	2294	
Starting Vehs ,		25	17	31	31	29	28	
Ending Vehs	7	28	27	30	21	30	25	
Fravel Distance (mi)	1	1013	975	995	1003	989	995	
Travel Time (hr)		27.2	26.0	26.6	26.9	26.2	26.6	
Total Delay (hr)		2.2	2.1	2.1	2.1	2.1	2.1	
Total Stops		402	374	382	401	340	379	-
Fuel Used (gal)		33.9	32.0	33.1	33.0	32.6	32.9	I SHE'S

Interval #0 Information Seeding

Start Time	4:57
End Time	5:00
Total Time (min)	3
Volumes adjusted by Grow	th Factors.
No data recorded this interv	

Interval #1 Information Recording

Start Time	5:00
End Time	6:00
Total Time (min)	60
Volumes adjusted by Grow	th Factors.

Run Number	2	3	4	5	6	Avg
Vehs Entered	2335	2255	2294	2305	2285	2298
Vehs Exited	2332	2245	2295	2315	2284	2294
Starting Vehs	25	17	31	31	29	28
Ending Vehs	28	27	30	21	30	25
Travel Distance (mi)	1013	975	995	1003	989	995
Travel Time (hr)	27.2	26.0	26.6	26.9	26.2	26.6
Total Delay (hr)	2.2	2.1	2.1	2.1	2.1	2.1
Total Stops	402	374	382	401	340	379
Fuel Used (gal)	33.9	32.0	33.1	33.0	32.6	32.9

3: Route 113 & Senator Black Rd (N) Performance by approach

Approach	WB	NB	SB	All	
Denied Del/Veh (s)	0.1	0.3	0.2	0.3	
Total Del/Veh (s)	5.1	0.9	0.8	1.1	

7: Route 113 & Route 5/17 Performance by approach

Approach	EB	NB	SB	All	
Denied Del/Veh (s)	0.2	0.2	0.3	0.2	
Total Del/Veh (s)	8.6	2.4	1.8	4.2	

11: Route 113 & Senator Black Rd (S) Performance by approach

Approach	EB	WB	SB	All	
Denied Del/Veh (s)	0.2	0.4	0.1	0.3	
Total Del/Veh (s)	0.9	1.2	8.2	1.6	

Total Network Performance

Denied Del/Veh (s)	*	0.3	
Total Del/Veh (s)		3.0	

Intersection: 3: Route 113 & Senator Black Rd (N)

Movement	WB	SB	
Directions Served	LR	LT	
Maximum Queue (ft)	49	47	
Average Queue (ft)	24	6	
95th Queue (ft)	49	29	THE RESIDENCE OF STREET, SALES OF THE SALES
Link Distance (ft)	1006	1191	
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)			
Storage Blk Time (%)			Company of the Compan
Queuing Penalty (veh)	7-	MANAGE	
	1	when the same	

Intersection: 7: Route 113 & Route 5/17

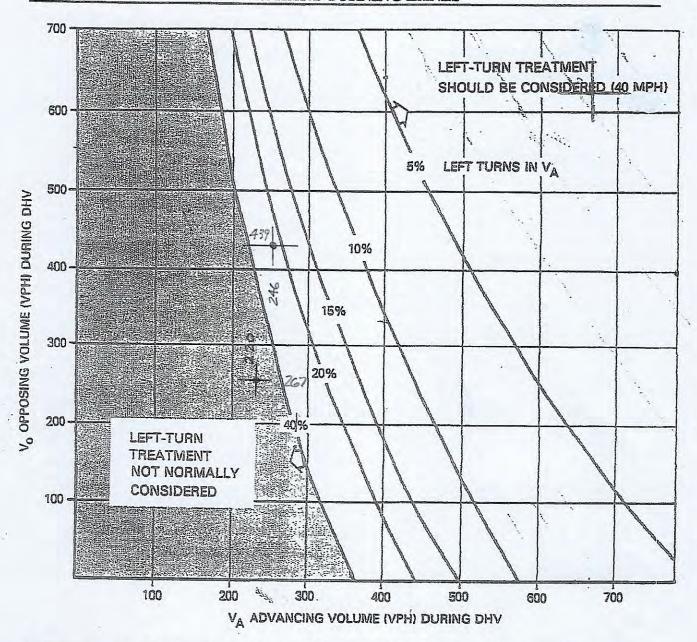
Movement	EB	NB	SB	
Directions Served	LR	LT	TR	
Maximum Queue (ft)	134	69	4	
Average Queue (ft)	64	15	0	
95th Queue (ft)	104	48	3	
Link Distance (ft)	1205	1245	1241	
Upstream Blk Time (%)		ENTRE		
Queuing Penalty (veh)			all alone de la la	
Storage Bay Dist (ft)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 11: Route 113 & Senator Black Rd (S)

Movement	EB	SB	
Directions Served	LT	LR	
Maximum Queue (ft)	47	63	
Average Queue (ft)	6	25	
95th Queue (ft)	27	50	
Link Distance (ft)	913	1176	
Upstream Blk Time (%)			
Queuing Penalty (veh)			1
Storage Bay Dist (ft)			
Storage Blk Time (%)			
Queuing Penalty (veh)			

Network Summary

Network wide Queuing Penalty: 0



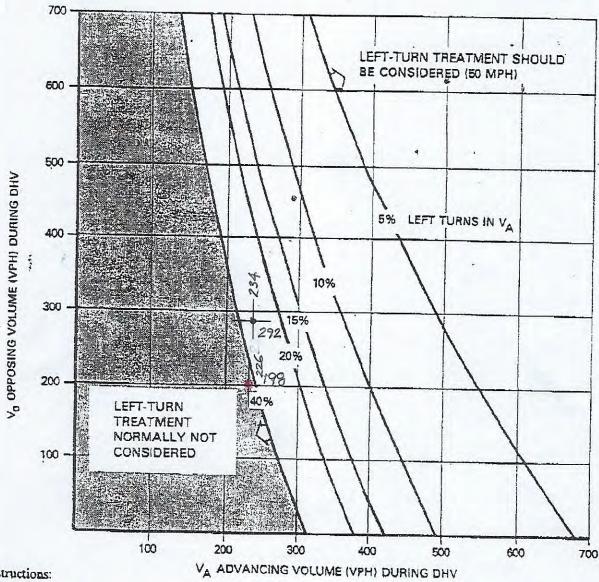
Instructions:

- The family of curves represent the percent of left turns in the advancing volume (VA). The designer should locate the curve for the actual percentage of left turns. When this is not an even increment of 5, the designer should estimate where the curve lies.
- Read V_A and V_O into the chart and locate the intersection of the two volumes.
- 5. Note the location of the point in #2 relative to the line in #1. If the point is to the right of the line, then a left-turn lane is warranted. If the point is to the left of the line, then a left-turn lane is not warranted based on traffic volumes.

VOLUME WARRANTS FOR LEFT-TURN LANES AT UNSIGNALIZED INTERSECTIONS ON 2-LANE HIGHWAYS (40 mph)

Figure 8-19

Senator Black Rd. @ S.R. 113 Naght Entersection



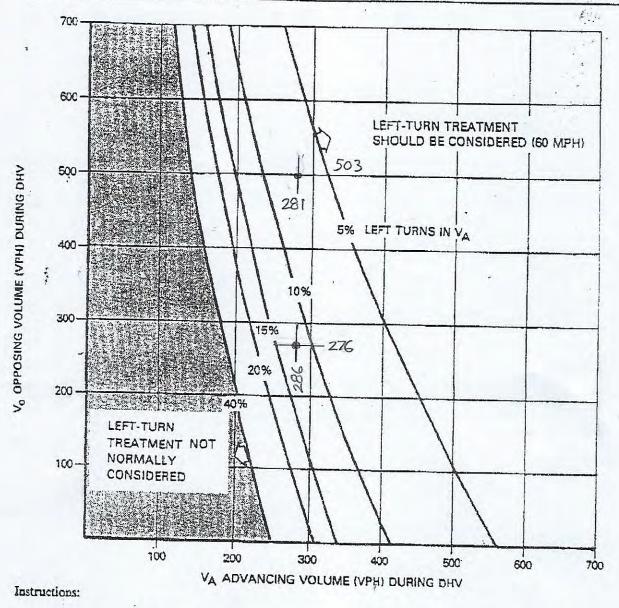
Instructions:

- The family of curves represent the percent of left turns in the advancing volume (VA). The designer should locate the curve for the actual percentage of left turns. When this is not an even increment of 5, the designer should estimate where the curve lies.
- Read VA and Vo into the chart and locate the intersection of the two volumes. 2.
- Note the location of the point in #2 relative to the line in #1. If the point is to the right of the line, then a left-turn lane is warranted. If the point is to the left of the line, then a left-turn is not warranted based on traffic volumes.

VOLUME WARRANTS FOR LEFT-TURN LANES AT UNSIGNALIZED INTERSECTIONS ON 2-LANE HIGHWAYS (50 mph)

Figure 8-18

Senator Black Road @ Depot Road

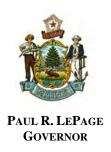


- The family of curves represent the percent of left turns in the advancing volume (V_A). The designer should locate the curve for the actual percentage of left turns. When this is not an even increment of 5, the designer should estimate where the curve lies.
- 2. Read VA and Vo into the chart and locate the intersection of the two volumes.
- 3. Note the location of the point in #2 relative to the line in #1. If the point is to the right of the line, then a left-turn lane is warranted. If the point is to the left of the line, then a left-turn is not warranted based on traffic volumes.

VOLUME WARRANTS FOR LEFT-TURN LANES
AT UNSIGNALIZED INTERSECTIONS ON 2-LANE HIGHWAYS
(60 mph)

Figure 8-17

Senator Black Rd. & S. R. 113 TOTAL P. 04
South Intersection



STATE OF MAINE DEPARTMENT OF AGRICULTURE, CONSERVATION & FORESTRY

93 STATE HOUSE STATION AUGUSTA, MAINE 04333

WALTER E. WHITCOMB COMMISSIONER

October 10, 2017

Katy Bouchard Terradyn Consultants PO Box 339 New Gloucester, ME 04260

Via email: katy@terradynconsultants.com

Re: Rare and exemplary botanical features in proximity to: #1640, Nature's Wilderness Campground, Baldwin, Maine

Dear Ms. Bouchard:

I have searched the Natural Areas Program's Biological and Conservation Data System files in response to your request received October 5, 2017 for information on the presence of rare or unique botanical features documented from the vicinity of the project in Baldwin, Maine. Rare and unique botanical features include the habitat of rare, threatened, or endangered plant species and unique or exemplary natural communities. Our review involves examining maps, manual and computerized records, other sources of information such as scientific articles or published references, and the personal knowledge of staff or cooperating experts.

Our official response covers only botanical features. For authoritative information and official response for zoological features you must make a similar request to the Maine Department of Inland Fisheries and Wildlife, 284 State Street, Augusta, Maine 04333.

According to the information currently in our Biological and Conservation Data System files, there are no rare botanical features documented specifically within the project area. This lack of data may indicate minimal survey efforts rather than confirm the absence of rare botanical features. You may want to have the site inventoried by a qualified field biologist to ensure that no undocumented rare features are inadvertently harmed.

If a field survey of the project area is conducted, please refer to the enclosed supplemental information regarding rare and exemplary botanical features documented to occur in the vicinity of the project site. The list may include information on features that have been known to occur historically in the area as well as recently field-verified information. While historic records have not been documented in several years, they may persist in the area if suitable habitat exists. The enclosed list identifies features with potential to occur in the area, and it should be considered if you choose to conduct field surveys.

This finding is available and appropriate for preparation and review of environmental assessments, but it is not a substitute for on-site surveys. Comprehensive field surveys do not exist for all natural areas in Maine, and in the absence of a specific field investigation, the Maine Natural Areas Program cannot provide a definitive statement on the presence or absence of unusual natural features at this site.

MOLLY DOCHERTY, DIRECTOR
MAINE NATURAL AREAS PROGRAM



PHONE: (207) 287-8044 FAX: (207) 287-8040 WWW.MAINE.GOV/DACF/MNAP Letter to Terradyn Comments RE: Nature's Wilderness, Baldwin October 10, 2017 Page 2 of 2

The Natural Areas Program is continuously working to achieve a more comprehensive database of exemplary natural features in Maine. We would appreciate the contribution of any information obtained should you decide to do field work. The Natural Areas Program welcomes coordination with individuals or organizations proposing environmental alteration, or conducting environmental assessments. If, however, data provided by the Natural Areas Program are to be published in any form, the Program should be informed at the outset and credited as the source.

The Natural Areas Program has instituted a fee structure of \$75.00 an hour to recover the actual cost of processing your request for information. You will receive an invoice for \$150.00 for two hours of our services.

Thank you for using the Natural Areas Program in the environmental review process. Please do not hesitate to contact me if you have further questions about the Natural Areas Program or about rare or unique botanical features on this site.

Sincerely,

Krit Pung

Kristen Puryear | Ecologist | Maine Natural Areas Program

207-287-8043 | kristen.puryear@maine.gov

Rare and Exemplary Botanical Features within 4 miles of Project: #1640, Nature's Wilderness Campground, Baldwin Maine

Common Name	State Status	State Rank	Global Rank	Date Last Observed	Occurrence Number	Habitat
Atlantic White Ced						
	SC	S2	G4	1933	14	Forested wetland
Cliff Muhly						
	E	S1	G5	1974-09-17	1	Hardwood to mixed forest (forest, upland), Rocky summits and outcrops (non-forested, upland)
Comb-leaved Merr	naid-weed					
	E	S1	G5	1913-07-26	2	Open wetland, not coastal nor rivershore (non-forested, wetland)
Douglas' Knotwee	d					
	SC	S2	G5	1933-08-01	7	Rocky summits and outcrops (non-forested, upland)
Ebony Spleenwort	t					
	SC	S2	G5	1985-07-20	3	Rocky summits and outcrops (non-forested, upland), Hardwood to mixed forest (forest, upland)
Fall Fimbry						
	SC	S2S3	G5	2004-08-24	11	Open wetland, not coastal nor rivershore (non-forested, wetland)
Fern-leaved False	Foxglove					
	SC	S3	G5	1916-08-29	15	Dry barrens (partly forested, upland), Hardwood to mixed forest (forest, upland)
Slender Cliffbrake	e					
	Т	S1	G5	1905-07-27	4	Rocky summits and outcrops (non-forested, upland), Hardwood to mixed forest (forest, upland)
Small Whorled Po	gonia					
	E	S2	G2	1985-06-06	6	Hardwood to mixed forest (forest, upland)
	E	S2	G2	2013-06-19	10	Hardwood to mixed forest (forest, upland)
Smooth Winterber	ry Holly					
	SC	S3	G5	1916-08-30	8	Forested wetland
Spotted Wintergre	en					
Maine Natural Areas Pro	ogram		Page 1 of 2			www.maine.gov/dacf/mnap

Rare and Exemplary Botanical Features within 4 miles of Project: #1640, Nature's Wilderness Campground, Baldwin Maine

Common Name	State Status	State Rank	Global Rank	Date Last Observed	Occurrence Number	Habitat
	E	S2	G5	1975-07-05	4	Conifer forest (forest, upland), Hardwood to mixed forest (forest, upland)
Wild Chess						
	E	S1	G5	1933-07-28	4	Dry barrens (partly forested, upland)
Wild Coffee						
	E	S1	G5	1933-08-17	4	Non-tidal rivershore (non-forested, seasonally wet), Hardwood to mixed forest (forest, upland)

Maine Natural Areas Program Page 2 of 2 www.maine.gov/dacf/mnap

STATE RARITY RANKS

- Critically imperiled in Maine because of extreme rarity (five or fewer occurrences or very few remaining individuals or acres) or because some aspect of its biology makes it especially vulnerable to extirpation from the State of Maine.
- Imperiled in Maine because of rarity (6-20 occurrences or few remaining individuals or acres) or because of other factors making it vulnerable to further decline.
- **S3** Rare in Maine (20-100 occurrences).
- **S4** Apparently secure in Maine.
- S5 Demonstrably secure in Maine.
- SU Under consideration for assigning rarity status; more information needed on threats or distribution.
- **SNR** Not yet ranked.
- **SNA** Rank not applicable.
- S#? Current occurrence data suggests assigned rank, but lack of survey effort along with amount of potential habitat create uncertainty (e.g. S3?).
- **Note**: **State Rarity Ranks** are determined by the Maine Natural Areas Program for rare plants and rare and exemplary natural communities and ecosystems. The Maine Department of Inland Fisheries and Wildlife determines State Rarity Ranks for animals.

GLOBAL RARITY RANKS

- G1 Critically imperiled globally because of extreme rarity (five or fewer occurrences or very few remaining individuals or acres) or because some aspect of its biology makes it especially vulnerable to extinction.
- G2 Globally imperiled because of rarity (6-20 occurrences or few remaining individuals or acres) or because of other factors making it vulnerable to further decline.
- G3 Globally rare (20-100 occurrences).
- **G4** Apparently secure globally.
- G5 Demonstrably secure globally.
- **GNR** Not yet ranked.
- **Note:** Global Ranks are determined by NatureServe.

STATE LEGAL STATUS

- Note: State legal status is according to 5 M.R.S.A. § 13076-13079, which mandates the Department of Conservation to produce and biennially update the official list of Maine's **Endangered** and **Threatened** plants. The list is derived by a technical advisory committee of botanists who use data in the Natural Areas Program's database to recommend status changes to the Department of Conservation.
- **E** ENDANGERED; Rare and in danger of being lost from the state in the foreseeable future; or federally listed as Endangered.
- THREATENED; Rare and, with further decline, could become endangered; or federally listed as Threatened.

NON-LEGAL STATUS

- SC SPECIAL CONCERN; Rare in Maine, based on available information, but not sufficiently rare to be considered Threatened or Endangered.
- PE Potentially Extirpated; Species has not been documented in Maine in past 20 years or loss of last known occurrence has been documented.

Visit our website for more information on rare, threatened, and endangered species! http://www.maine.gov/dacf/mnap

ELEMENT OCCURRENCE RANKS - EO RANKS

Element Occurrence ranks are used to describe the quality of a rare plant population or natural community based on three factors:

- <u>Size</u>: Size of community or population relative to other known examples in Maine. Community or population's viability, capability to maintain itself.
- <u>Condition</u>: For communities, condition includes presence of representative species, maturity of species, and evidence of human-caused disturbance. For plants, factors include species vigor and evidence of human-caused disturbance.
- <u>Landscape context</u>: Land uses and/or condition of natural communities surrounding the observed area. Ability of the observed community or population to be protected from effects of adjacent land uses

These three factors are combined into an overall ranking of the feature of **A**, **B**, **C**, or **D**, where **A** indicates an **excellent** example of the community or population and **D** indicates a **poor** example of the community or population. A rank of **E** indicates that the community or population is **extant** but there is not enough data to assign a quality rank. The Maine Natural Areas Program tracks all occurrences of rare (S1-S3) plants and natural communities as well as A and B ranked common (S4-S5) natural communities.

Note: **Element Occurrence Ranks** are determined by the Maine Natural Areas Program for rare plants and rare and exemplary natural communities and ecosystems. The Maine Department of Inland Fisheries and Wildlife determines Element Occurrence ranks for animals.

Visit our website for more information on rare, threatened, and endangered species! http://www.maine.gov/dacf/mnap

2019 Season Rate Schedule Open May 1 to October 31

SEASON RATE SCHEDULE: (updated 11/12/18)

SEASONAL SITE	Peak Summer (7+ nights) 6/22 - 8/31	Peak Summer (3-6 nights) 6/22 - 8/31	Spring Season 5/1 - 6/21	Fall Season 9/1 - 10/31
Wooded Site Tent (water only)	\$43	\$46	\$28	\$38
Wooded Site Upper pond (water only)	\$47	\$52	\$31	\$47
Wooded Upper pond (water and electric)	\$49	\$52	\$31	\$43
Wooded RV Site (water & 30 amp)	\$48	\$51	\$30	\$42
Wooded RV Site (water & 50 amp)	\$55	\$58	\$36	\$49
RV Site (water, 30 amp, sewer)	\$55	\$58	\$36	\$49
RV Site (water, 50 amp, sewer)	\$59	\$62	\$40	\$55
Upper pond (water & 30 amp)	\$65	\$68	\$37	\$53
Upper pond (water & 50 amp)	\$68	\$72	\$41	\$58
Medium Size Glamping Cabin	\$129	\$139	\$99	\$99
Large Size Glamping Cabin	\$139	\$159	\$119	\$119
Two Bedroom Cabins	\$189	\$199	\$169	\$169
Two Bedroom Trailers	\$129	\$139	\$99	\$99

GOOGLE

maine campgrounds cabins





Rating -

Hours -Your past visits ▼

Papoose Pond Family Campground & Cabins

4.6 (185) · Campground

Waterford, ME



Bar Harbor / Woodlands KOA

(165) · Campground

Bar Harbor, ME

m "The grounds were clean, staff was super friendly and private bathrooms."



Big Moose Inn Cabins & Campground

4.5 (63) · Campground Warm rooms & cabins in a low-key lodge offering a cozy restaurant, plus free parking & breakfast.



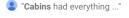
Millinocket, ME

"Easy booking process, reasonably prices, nice staff, and very good facilities."

Sherwood Forest Campsite

4.8 (30) · Campground

New Harbor, ME





Quietside Campground & Cabins 4.7 (40) · Campground

Bernard, ME



Discover more places







Bear Point Marina, Cabins, Campground and Restaurar

(29) · Vacation Home Re..

Bowerbank, ME



Seaview Campground & Cottages

4.4 (43) · Campground

Eastport, ME



Birch Point Lodge Campgrounds

(63) · Campground

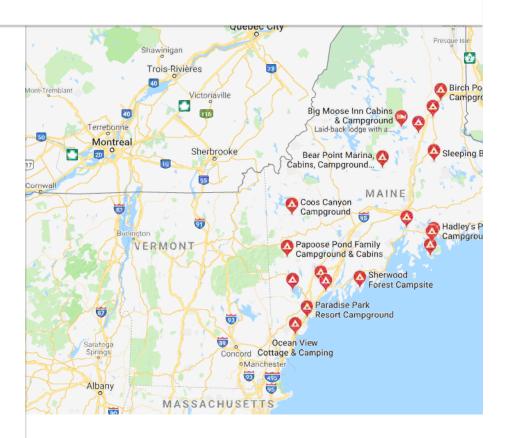
Island Falls, ME

🦛 "Awesome place, full bar, restaurant, and vintage bowling alley downstairs!"



Ocean View Cottage & Camping

(60) · Campground



GOOGLE

maine campsites cabins





Rating -Your past visits -

Bar Harbor / Woodlands KOA

4.4 (165) · Campground Bar Harbor, ME

m "The grounds were clean, staff was super friendly and private bathrooms.'



Sherwood Forest Campsite

(30) · Campground

New Harbor, ME

"Cabins had everything ..."



Papoose Pond Family Campground & Cabins

4.6 (185) · Campground Waterford, ME



Quietside Campground & Cabins

(40) · Campground Bernard, ME



Big Moose Inn Cabins & Campground

(63) · Campground Warm rooms & cabins in a low-key lodge offering a cozy restaurant, plus free parking & breakfast.



Millinocket, ME

"Easy booking process, reasonably prices, nice staff, and very good facilities."

Discover more places





Bear Point Marina, Cabins, Campground and Restaura

(29) · Vacation Home R...

Bowerbank, ME



Mt Desert Narrows Camping Resort

4.1 (131) · Campground

Bar Harbor, ME

"Loved it amazing views Hot water Laundry room Showers included in...



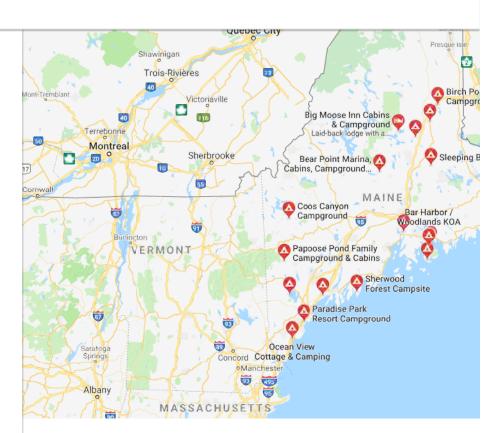
Paradise Park Resort Campground

(198) · Campground

Old Orchard Beach, ME



Ocean View Cottage & Camping



Est ID	Exp Date	Establishment Name	Mail Street 1	Mail City	Mail State	Zip Code
26750	5/21/2019	LONE MOUNTAIN CAMPGROUND	424 SOUTH MAIN ST	ANDOVER	ME	04216
27273	5/22/2019	NORTHEAST WHITEWATER	PO BOX 1623	GREENVILLE	ME	04441
27372	5/18/2019	FOX CARLTON POND CAMPGROUND	PO BOX 103	PHILLIPS	ME	04966
27515	6/15/2019	ACADIA EAST CAMPGROUND	200 METCALF RD	WINTHROP	ME	04364
27517	8/31/2019	LIVING WATERS	PO BOX 250	DANFORTH	ME	04424
27669	8/24/2019	WOODS AND WATERS CAMPGROUND	973 CENTRAL ST	MILLINOCKET	ME	04462

Email Address	Owner Name		Licens	еТуре	<u> </u>	Phone
TLEARNED@ROADRUNNER.COM	LONE MOUNTAIN	CAMPGROUND LLC	CAMP SITES	GROUND 2	25-124	207-713- 3617
JESSICA@NOTHEASTWHITEWATER.COM	NORTHEAST GUID	DE SERVICE LLC	CAMP	GROUND 5	5-24 SITES	207-695- 0151
JON.POUND1947@GMAIL.COM	FOX CARLTON PO	OND SPORTING CAM	PS CAMP	GROUND 5	5-24 SITES	207-491- 5865
POCKETPARKCAMPING@GMAIL.COM	POCKET PARKS C	CAMPGROUND LLC	CAMP	GROUND 5	5-24 SITES	207-431- 7226
MOREINFO@LWCAMP.COM	LIVING WATERS II	NC	CAMP SITES	GROUND 2	25-124	207-448- 2310
INFO@PAMOLODGE.COM	KATAHDIN SERVI	CES LLC	CAMP	GROUND 5	5-24 SITES	207-723- 9746

Phone	Loc Street	Loc City
207-713-	424 SOUTH MAIN ST	ANDOVER
3617		
207-695-	155 GREENVILLE RD	SHIRLEY
0151		
207-491-	TOOTHAKER POND	PHILLIPS
5865	RD	
207-431-	574 US ROUTE 1	GOULDSBORO
7226		
207-448-	47 DARK COVE RD	WESTON
2310		
207-723-	973 CENRAL ST	MILLINOCKET
9746		

UNIO DI LOS DE LA COLOR PER LA COLOR DE LA



PERFORMANCE BOND

	Bond	Number: 72200982
KNOW ALL PERSONS BY THESE PRESE	NTS, That weGorry Arnold	Brown Jr. dba Brown
96 Brown Rd., West Baldwin, ME		
referred to as the Principal, and	Western Surety C	cmpany ,
as Surety, are held and firmly bound unto $\underline{\mathbb{T}}$	own of Baldwin	
of <u>534 Pequawket Trail, West Bal</u>	dwin, ME 04091	, hereinafter
referred to as the Obligee, in the sum of \underline{Fo}	rty Thousand and 00/100	
Dollars ($\frac{4c,ccc.cc}{}$), for the paymand assigns, jointly and severally, firmly by t		legal representatives, successors
WHEREAS, Principal has entered into a cor	ntract with Obligee, dated the	day of,
, for Reconstruction and	Redefinition of Marston Ro	pad
Paragraph are void or prohibited by law, the furisdiction of the suit shall be applicable. NO RIGHT OF ACTION shall accrue on the Obligee named herein or the heirs, executor	is Bond to or for the use of any pe	rson or corporation other than the
SIGNED, SEALED AND DATED this2	5th day of September	
		rown Jr. dba Brown
	By Jerry	(Principal) (Seal)
	Western Gurety C	Surety) Attor
Form F4597		SEA

OLEOTO TITILE FO FOOL DIOUT TAY DOLACT



PAYMENT BOND

	Bond Number: 72200982
KNOW ALL PERSONS BY THESE PRESENTS,	, That we Gerry Arnold Brown Jr. dba Brown
Construction	0
96 Brown Rd., West Baldwin, ME 0409	91, hereinafte
referred to as the Principal, and	Western Surety Company
	of Baldwin
of 534 Pequawket Trail, West Baldwin	, MR 04091 , hereinafter
referred to as the Obligee, in the sum of Forty	
Dollars ($$40,000.00$), for the payment of and assigns, jointly and severally, firmly by these	of which we bind ourselves, our legal representatives, successors presents.
WHEREAS, Principal has entered into a contract	with Obligee, dated day of
, forReconstruction and Re	definition of Marston Road
copy of which contract is by reference made a par	rt hereof.
persons supplying labor and material in the proseduly authorized modifications of said contract that being waived, then this obligation to be void; other the suit or action shall be commenced hereunder (a) After the expiration of one (1) year follow being understood, however, that if any controlling the construction hereof such the suit of	ring the date on which Principal ceased work on said contract it / limitation embodied in this bond is prohibited by any law limitation shall be deemed to be amended so as to be equal to
the minimum period of limitation permitted (b) Other than in a state court of competent the state in which the project, or any part district in which the project, or any part the	jurisdiction in and for the county or other political subdivision of thereof, is situated, or in the United States District Court for the
The amount of this bond shall be reduced by an nereunder.	d to the extent of any payment or payments made in good faith
SIGNED, SEALED AND DATED this25th_	day ofSeptember2019
	Construction (Principal) By Western Surety Company (Surety) JEFFREY A VERMITTE Attor SEA

Western Surety Company

POWER OF ATTORNEY - CERTIFIED COPY

					Bond No.		1487.
Know All Mer of the State of Sou constitute and app	th Dakota, and ha	viug its principal o	SURETY CON Mice in Sioux P RZY A VZRI	MPANY, a corporat alls, South Dakota METTE	ion duly organi (the "Company	zed and existing), does by thes	ng under the laws se presents make,
its true and lawful belialf as Sucety, b		, with full power a	nd authority he	reby conferred, to	execute, acknov	wledge and deli	iver for and on its
Principal: C	crry Arnold	Brown Jr. c	lba Brown	Constructio	n		
Obligee: C	ity of Bald	vin					
Amount: \$	1,000,000.00)					
corporate seal of t may do within the	the Company and	fuly attested by it ations. Said appoi	Secretary, he	if such bonds were reby ratifying and c under and by aut	confirming all	that the said a	attorney(s)-in-fact
corporate name of officers as the Boar may appoint Attor The corporate sea	the Company by the rd of Directors may neys in Fact or ago I is not necessary if	ne President, Secretauthorize. The Prents who shall have or the validity of a	tary, any Assis esident, any Vi authority to is ny bonds, polic	y or other obligation tant Secretary, Tro ce President, Secre sue bonds, policies sies, undertakings, ay be printed by fac	easurer, or any tary, any Assis , or undertakin Powers of Atto	Vice President tant Secretary, gs in the name	t or by such other or the Treasurer of the Company.
If Bond No.	72200982 d in this Power of A	is not issued	on or before m	idnight of	Novembe	r 15, 20	19, all
WESTERN SURE	HOROTA LOMENHA Sth day of who being to me d TY COMPANY and COMPANY PUBLIC SOUTH PARKOTA SOUTH PARKOTA CONTARY PUBLIC CONTARY	September uly sworn, acknowledged said	, in the yeledged that he linstrument to	WESTA	oefore me, a not Power of Atto ct and deed of s ate of South Da	RETY C Paul T. Frufla tary public, per riney as the af said corporation Notary Public akota, do hereby	OMPANY at, Vice President resonally appeared foresaid officer of a. ic - South Dakota
et forth in the Pov	ver of Attorney is n	ow in force.		, and furthermore,			Ethe Company as
In testimony Septembe			and seal of We	stern Surety Comp	any this	25th	day of
				WEST	SRN SU	RETY C	OMPANY
				_/ 4	11.	Buff	t, Vice President
						Paul T. Brufla	e, vice rresident

To validate bond authenticity, go to www.cnasurety.com > Owner/Obligee Services > Validate Bond Coverage.

Form F5306-10-2017

ACORD

INSURANCE BINDER

DATE (MM/DD/YYYY) 10/1/2019

THIS BINDER IS A TEMPO	RARY INSURANCE CO	ONTRACT, SUBJE	CT TO THE C	ONDITIO	ONS SHO	WN ON PAGE	2 OF THIS	FORM	1.	
THIS BINDER IS A TEMPORARY INSURANCE CONTRACT, SUE			COMPANY BINDER #							
Cross Insurance-Windham			Concord Group Ins Co			B19101	B1910121278			
Cross Insurance-Windham 745 Roosevelt Trail			DATE	EFFECTI	VE	TIME	DAT	EXPIR	RATION	TIME
/45 ROOSEVEIC ITALI			DATE			X AM	DAT	<u> </u>	7.1	12:01 AM
Windham ME	04062		10/1/201	9	12:01	PM	10/31/	2019	1	NOON
PHONE (A/C, No, Ext): (207) 892-7996	FAX (A/C, No): (207)	892-8229				ND COVERAGE IN			OMPANY	
CODE: 262	SUB CODE:		PER EXPIR	NG POLIC	Y #. 2007	8893				
AGENCY CUSTOMER ID: 00481129			DESCRIPTION C	F OPERATI	ONS / VEHIC	LES / PROPERTY	(Including Loc	ation)		
INSURED AND MAILING ADDRESS			Loc# 0000	1/Bldg	# 00001					
Gerry Brown, DBA: Brown Co	nstruction		2 Upper T			21.40				
2 Upper Twain Road			West Bald	win, M	5 0409.	1-3149				
West Baldwin ME	04091									
COVERAGES							LIMIT	S		
TYPE OF INSURANCE		COVERAGE / FOR				DEDUCTIBLE	COINS %		AMOUN'	
PROPERTY CAUSES OF LOSS	Personal Propert	y, Special for	m			500				3,000
BASIC BROAD X SPEC										
GENERAL LIABILITY						EACH OCCURRE DAMAGE TO	NCE	\$	5	00,000
X COMMERCIAL GENERAL LIABILITY						RENTED PREMISES		\$		
CLAIMS MADE X OCCUR						MED EXP (Any on	e person)	\$		5,000
						PERSONAL & ADV INJURY		\$	- 3.47	
						GENERAL AGGR	EGATE	\$		00,000
	RETRO DATE FOR CLAIMS	MADE:				PRODUCTS - CO	- Contract	\$	1,0	00,000
VEHICLE LIABILITY						COMBINED SING		\$	_	
ANY AUTO						BODILY INJURY (\$		
ALL OWNED AUTOS						BODILY INJURY (S		
SCHEDULED AUTOS						PROPERTY DAM	U-F-	\$		-
HIRED AUTOS						MEDICAL PAYME	AL AFRICA	\$	-	
NON-OWNED AUTOS						PERSONAL INJU		S		
						UNINSURED MO	TORIST	\$		-
VEHICLE PHYSICAL DAMAGE						L OTTIVE OF	000000000000000000000000000000000000000	\$		
DEB	ALL VEHICLES	SCHEDULED VE	HICLES			ACTUAL CA				
COLLISION:						STATED AN	IOUNI	\$		
OTHER THAN COL: GARAGE LIABILITY						ALITO ONLY EA	ACCIDENT	s		
						OTHER THAN AUTO ONLY:				
ANY AUTO						1 2 2	H ACCIDENT	\$		
							AGGREGATE	\$		
EXCESS LIABILITY								\$		
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Page 1 of 2

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CONDITIONS

This Company binds the kind(s) of insurance stipulated on page 1 of this form. The Insurance is subject to the terms, conditions and limitations of the policy(ies) in current use by the Company.

This binder may be cancelled by the Insured by surrender of this binder or by written notice to the Company stating when cancellation will be effective. This binder may be cancelled by the Company by notice to the Insured in accordance with the policy conditions. This binder is cancelled when replaced by a policy. If this binder is not replaced by a policy, the Company is entitled to charge a premium for the binder according to the Rules and Rates in use by the Company.

Applicable in Arizona

Binders are effective for no more than ninety (90) days.

Applicable in California

When this form is used to provide insurance in the amount of one million dollars (\$1,000,000) or more, the title of the form is changed from "Insurance Binder" to "Cover Note".

Applicable in Colorado

With respect to binders issued to renters of residential premises, home owners, condo unit owners and mobile home owners, the insurer has thirty (30) business days, commencing from the effective date of coverage, to evaluate the issuance of the insurance policy.

Applicable in Delaware

The mortgagee or Obligee of any mortgage or other instrument given for the purpose of creating a lien on real property shall accept as evidence of insurance a written binder issued by an authorized insurer or its agent if the binder includes or is accompanied by: the name and address of the borrower; the name and address of the lender as loss payee; a description of the insured real property; a provision that the binder may not be canceled within the term of the binder unless the lender and the insured borrower receive written notice of the cancellation at least ten (10) days prior to the cancellation; except in the case of a renewal of a policy subsequent to the closing of the loan, a paid receipt of the full amount of the applicable premium, and the amount of insurance coverage.

Chapter 21 Title 25 Paragraph 2119

Applicable in Florida

Except for Auto Insurance coverage, no notice of cancellation or nonrenewal of a binder is required unless the duration of the binder exceeds 60 days. For auto insurance, the insurer must give 5 days prior notice, unless the binder is replaced by a policy or another binder in the same company.

Applicable in Maryland

The insurer has 45 business days, commencing from the effective date of coverage to confirm eligibility for coverage under the insurance policy.

Applicable in Michigan

The policy may be cancelled at any time at the request of the insured.

Applicable in Nevada

Any person who refuses to accept a binder which provides coverage of less than \$1,000,000.00 when proof is required: (A) Shall be fined not more than \$500.00, and (B) is liable to the party presenting the binder as proof of insurance for actual damages sustained therefrom.

Applicable in Oklahoma

All policies shall expire at 12:01 a.m. standard time on the expiration date stated in the policy.

Applicable in Oregon

Binders are effective for no more than ninety (90) days. A binder extension or renewal beyond such 90 days would require the written approval by the Director of the Department of Consumer and Business Services.

Applicable in the Virgin Islands

This binder is effective for only ninety (90) days. Within thirty (30) days of receipt of this binder, you should request an insurance policy or certificate (if applicable) from your agent and/or insurance company.

Amended Agreement Re: Reconstruction and Redefinition of Marston Road

This Agreement is made as of the 24th of September 2019, by and between the Town of Baldwin, and Gerry Brown.

Whereas, Gerry Brown, and Brown Construction (collectively "Contractor") undertook the unauthorized improvement, alteration of the surface of Marston Road, a public road crossing their property as to which they are the principal user, and have located a private electrical line within the Marston Road right of way without a permit so to do; and

Whereas, the unauthorized work done by Contractor to date appears to be satisfactory to the Town, but remains incomplete due to a stop work order from the Town's CEO; and

Whereas both parties wish to see the road work completed properly and expeditiously, that the Town's right of way be properly located by action of the Town as relocated many years ago, and that Contractor's electrical installations be made consistent with state law to the extent such installation is located within the public right of way;

Now therefore it is agreed that the Town: (1) accepts the work completed to date by Contractor as sufficient for acceptance, (2) authorizes utility location permit(s) with respect to the electrical line where now situate, (3) waives all fees and penalties for work done to date with respect to public rights in Marston Road, and (4) authorizes further work to complete Contractor's proposed improvement of an additional section of Marston Road in accordance with Exhibit A attached hereto, in consideration and upon the condition that the Contractor promptly proceeds with such work and pursues it to a satisfactory conclusion. More specifically, Contractor shall undertake the following:

- 1. Prior to undertaking any additional work on Marston Road, the Contractor will obtain general liability insurance against claims for bodily injury or property damage in an amount of \$400,000 or more, combined single limit, which insurance shall name the Town of Baldwin as an additional insured. Contractor shall provide a certificate of insurance to the Town evidencing such insurance prior to the start of the work.
- Contractor shall obtain a good and sufficient performance and payment bond naming the Town of Baldwin as obligee guaranteeing the completion of the work on Marston Road within one year in an amount estimated to complete the work shown on Exhibit A located within the right of way, or immediately adjacent thereto.
- 3. All work within the Marston Road right of way shall be subject to the direction and control of the Road Commissioner of the Town of Baldwin. Any dispute between Contractor and said Road Commissioner as to the quality, sufficiency, or completeness of the work shall be finally decided by the Board of Selectmen of the Town of Baldwin.
- 4. Contractor shall not extend the work on Marston Road beyond the property line of Nature's Wilderness, LLC, without the prior written consent of the Town of Baldwin.

Nor shall Contractor, its successor or assigns undertake any maintenance or construction work within the right of way in the future without the prior written consent of the Town of Baldwin.

- 5. Contractor shall defend, indemnify and hold the Town of Baldwin, its officers and employees harmless against any and all claims for damages or other relief (just or unjust) and for all costs and expense (including reasonable attorney's fees) made with respect to this agreement, or arising out of Contractor's work on, or maintenance of Marston Road, regardless of the date of the work, and the date of this Agreement; provided such claim is made within one year of this Agreement, or the Completion of the work authorized by it, whichever occurs later.
- 6. Contractor agrees that the work to be done will be performed within the existing public right of way for Marston Road is believed to be 3 rods in width, and centered on the travelled roadbed as located on the date of this Agreement shown on Exhibit A.
- 7. This Agreement shall be binding on the successors and assigns of the parties, and any dispute over it, or arising out of it shall be brought in a court of the State of Maine located in Cumberland County, and shall not be subject to removal or transfer to any other court.

WHEREFORE Gerry Brown on the one part, and the municipal officers of the Town of Baldwin on the other have caused this Agreement to be signed and sealed as of the date first stated above.

Selectman

Date: Personally Appeared the named Gerry Brown and made oath that the above is his free act and deed.

Notary Public Printed name: Deborah Wakefield

Attach Exhibit A



Bond Amount. 40,000.00

Small Whorled Pogonia (*Isotria medeoloides*) Site Survey

Nature's Wilderness Campground Marston's Road, Baldwin, Maine

Report Submitted: July 29, 2019

Submitted to:



Jeff Amos (PE) - Terradyn Consultants, LLC 41 Campus Dr., Suite 101, New Gloucester, ME 04260

Prepared By:



Flycatcher LLC + 463 Blackstrap Road + Falmouth, Maine + 04105 <u>info@flycatcherllc.com</u> + <u>http://www.flycatcherllc.com/</u>

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1.0 INTRODUCTION

In July 2019, per request of Terradyn Consultants, LLC, two experienced biologists (Rich Jordan and Erik Lema – qualifications below) conducted a field survey for small whorled pogonia (*Isotria medeoloides*, a federally threatened and state-listed S2 terrestrial orchid) on approximately 160 acres of land located north of Marstons Road in Baldwin, Maine ("Survey Area", Figure 1). This report provides a description of the methods and findings of the survey effort.

1.1 Summary of Findings

The biologists investigated the property and determined approximate target survey areas based on slopes, presence of development, soils, wetlands and other factors according to habitat preferences for small whorled pogonia. They then performed systematic, paired meandering-transect surveys across and within all the areas designated as potential habitat for small whorled pogonia. One population of four individual plants were located during this survey – global position system (GPS) location data were collected and provided to Jeff Amos of Terradyn Consultants, LLC via email on July 23, 2019. The four small whorled pogonia plants were observed growing near the base of a steep, upland slope adjacent to a narrow wetland. All four plants were located with an approximately 20-foot radius circle. No other small whorled pogonia were observed within the Survey Area.

2.0 SURVEY AREA

2.1 Survey Area Location & Access

The Survey Area is located north of Marstons Road (also called "Brown Road"), across from Lower Pond and approximately 0.5 miles east of Senator Black Road. The survey area is approximately bounded on the east and west by Upper Twain Road (on the west) and Deacon Road (on the east), although the Survey Area extends slightly west and north of Upper Twain Road (see Figure 1).

2.2 Survey Area Description & Landuse

There is an existing commercial campground located within the southwestern quarter of the property, adjacent to Marstons Road. There are several gravel roads and associated utility infrastructure (powerlines, etc.) located throughout this portion of the property. Much of the Survey Area that is not currently used as part of the campground is crisscrossed with existing woods roads, apparently used primary for logging access and by recreational ATV riders. The forest composition across the site is mixed, with most of the Survey Area (outside of the campground), having a mixture of soft and hardwood trees, and showing evidence of historic and recent timber harvests. Skidder trails and cut stumps are prevalent throughout the Survey Area.

The Survey Area has several very steep areas, with all topography generally tending to slope downward toward the wetland basin and streams that run through the western part of the site (see Figures 1 and 2).



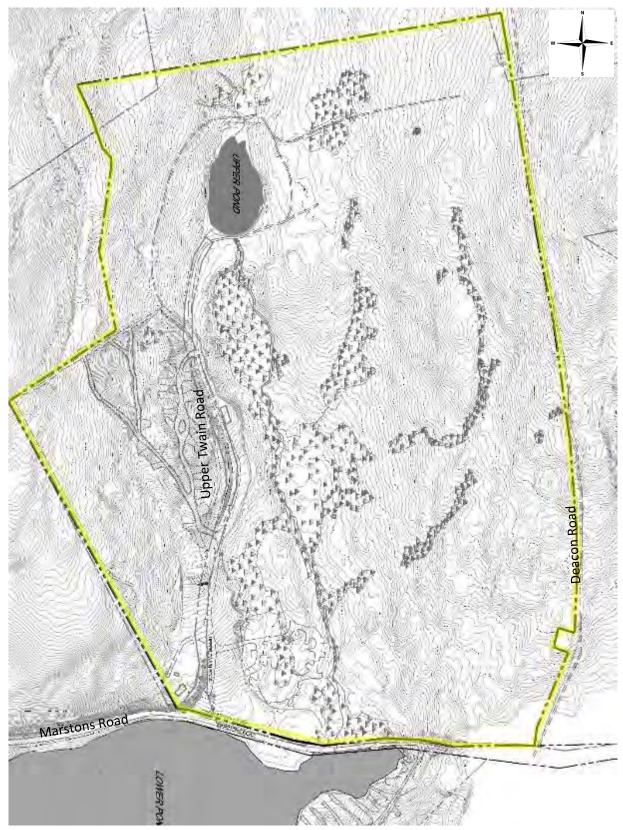


Figure 1. Survey Area (bounded in yellow) per Terradyn Consultants, LLC.





Figure 2. Approximation of Survey Area on 2018 aerial photograph.

3.0 METHODS

3.1 Investigator Credentials

The site survey was conducted by Rich Jordan of Flycatcher LLC and Erik Lema of Basswood Environmental, LLC. Mr. Jordan is a professional wetland scientist (#1517) and has been a consulting biologist in Maine for 20 years. Mr. Jordan has worked on over two dozen rare plant surveys and has worked in the field and/or studied with several of the pre-eminent consulting botanists in New England. Mr. Lema is an experienced botanist, having performed intensive surveys for rare, threatened and endangered plant species throughout the New England region, as well as the mid-Atlantic and intermountain west. Based in Cape Elizabeth, Maine, he has studied botany for over 17 years and has been a consulting biologist for over 10 years.

3.2 Small Whorled Pogonia Habitat

Research on the species has indicated that small whorled pogonia grows in a variety of upland, midsuccessional, wooded habitats, usually mixed-deciduous or mixed-deciduous/coniferous forests that are in second or third-growth successional stages. Several studies of existing populations have noted a habitat preference for a sparse and relatively open understory canopy, thick leaf litter, and gently sloping ground.



Additionally, "(s)oils in which small whorled pogonia grows are generally acidic and dry during most of the growing season. Many sites where this plant occurs are underlain by soils with a hardpan layer that impedes the downward flow of water and leads to the formation of shallow braided channels on the ground surface. Small whorled pogonia is almost always found in proximity to features that create long-persisting breaks in the forest canopy; light availability could be a limiting factor for this species." ¹

3.3 Small Whorled Pogonia Survey

The biologists surveyed the Survey Area specifically and only for small whorled pogonia.

Based on literature research (Section 5), colleague consultation, and the initial, overall Survey Area review, the investigating biologists devised a target site survey area which included nearly all the Survey Area located east of Upper Twain Road (Figure 3).

West of Upper Twain Road, the site is characterized by very steep slopes and well-drained soils, and includes the bulk of the existing development.

The biologists focused the survey within the target survey area. In that area, they did not conduct detailed surveys within steep slopes (>approximately 20%), wetlands, recent clear-cuts or logging trails (these had very intensely-thick understories), or developed areas (e.g. roads and camper pads). The biologists performed paired transects across the remainder of the target

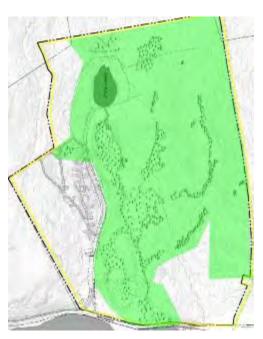


Figure 3. Target survey area (green-shaded area)

site survey area with higher focus provided to areas adjacent to wetlands and near the base of slopes, areas with broken canopy cover, and areas with sparse understory vegetation.

4.0 FINDINGS

4.1 Dominant Vegetation in Survey Area

The following table provides a sample listing of dominant vegetation observed within the target site survey areas (generally including uplands in primary and secondary stage growth patterns, following historic and modern tree clearing).

Stratum	Common Name	Scientific Name
Tree/Sapling	American beech	Fagus grandifolia
	Balsam fir	Abies balsamea
	Eastern hemlock	Tsuga canadensis
	Red maple	Acer rubrum
	Red oak	Quercus rubra
	White pine	Pinus strobus

¹ USFWS, Maine Field Office – Ecological Services. 2015. http://www.fws.gov/mainefieldoffice/Small_whorled_pogonia.html



Stratum	Common Name	Scientific Name		
	Yellow birch	Betula alleghaniensis		
Shrub	Hobblebush	Viburnum lantanoides		
	Morrow's honeysuckle	Lonicera morrowii		
	Striped maple	Acer pennsylvanicum		
	Witch hazel	Hamamelis virginiana		
	(+young specimens from tree strat	(+young specimens from tree stratum)		
Understory	American hog-peanut	Amphicarpaea bracteata		
	Bracken fern	Pteridium aquilinum ssp. latiusculum		
	Canada-mayflower	Maianthemum canadense		
	Cinnamon fern	Osmundastrum cinnamomeum		
	Eastern hay-scented fern	Dennstaedtia punctilobula		
	Indian cucumber-root	Medeola virginiana		
	Interrupted fern	Osmunda claytoniana		
	Lance-leaved twistedstalk	Streptopus lanceolatus		
	Long beech fern	Phegopteris connectilis		
	Lowbush blueberry	Vaccinium angustifolium		
	New York fern	Parathelypteris noveboracensis		
	Northern wood sorrel	Oxalis montana		
	Partridge-berry	Mitchella repens		
	Sharp-toothed nodding-aster	Oclemena acuminata		
	Starflower	Lysimachia borealis		
	Tall rattlesnake-root	Nabalus altissimus		
	Wild sarsaparilla	Aralia nudicaulis		

4.2 Small whorled pogonia

While conducting surveys for small whorled pogonia, the biologists found a single, non-flowering/fruiting small whorled pogonia near the base of a slope and approximately 20 feet from a narrow wetland. The plant is located approximately 400-450 feet from Deacon Road, on a level terrace below a west-facing slope. Location data is not being provided in this report. This area has been historically cutover, and there were skidder ruts in the adjacent wetland. Additionally, there was dappled sunlight on the relatively clear understory provided by a canopy break caused by the nearby wetland area.

The biologists tentatively agreed on the identification of the non-flowering individual, primarily based on its fleshy stem, leaf whorl configuration, habitat, and overall distinction between it and the similar and ubiquitous Indian cucumber-root. Upon finding the plant, the biologists closely surveyed similar habitats within approximately 200 feet of the small whorled pogonia. They identified three more individual plants, two in fruit and one with no flowers. The individuals with seed capsules made for unequivocal identification of the small whorled pogonia.

All four plants were located within an approximately 20-foot radius circle. A GPS point was collected within the approximate middle of the four plants and the data were emailed to Jeff Amos, P.E., at Terradyn Consultants, LLC.



5.0 REFERENCES

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6.0 REPRESENTATIVE PHOTOGRAPHS



Forested wetland/upland boundary adjacent to stream just south of Upper Pond.



Typical cleared area in primary/secondary succession; very thick understory. Areas such as this were generally not surveyed for small whorled pogonia due to lack of sunlight at ground-level.



Typical steep slope dominated by hemlock with beech, maple and a sparse understory.



Typical mesic upland on slope breaks near wetlands.



Typical steep slope observed during site survey; dominated by maples, oaks and beach, with hemlock and a relatively sparse understory.



Typical potential small whorled pogonia habitat within target site survey area – gentle slope between wetlands.



Typical potential small whorled pogonia habitat within target site survey area – level upland with limited understory and dappled sunlight.



Habitat within which small whorled pogonia was identified.



Indian cucumber-root.



Potentially suitable habitat growth within target site survey area; as seen here, these areas were often dominated in the understory by Indian cucumber-root and starflower.



First small whorled pogonia observed in population of four.





One of the fruiting specimens observed.

