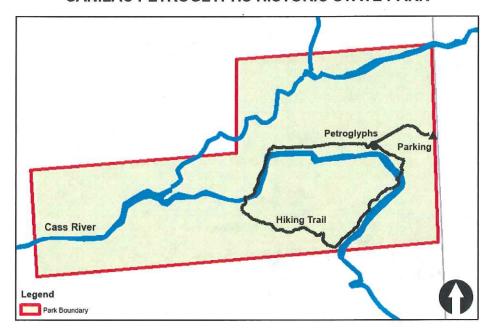
# **GENERAL MANAGEMENT PLAN**

Long-range management guidance focused on the specific natural resources, historic-cultural resources, recreation opportunities, and the education-interpretation opportunities for...

### SANILAC PETROGLYPHS HISTORIC STATE PARK



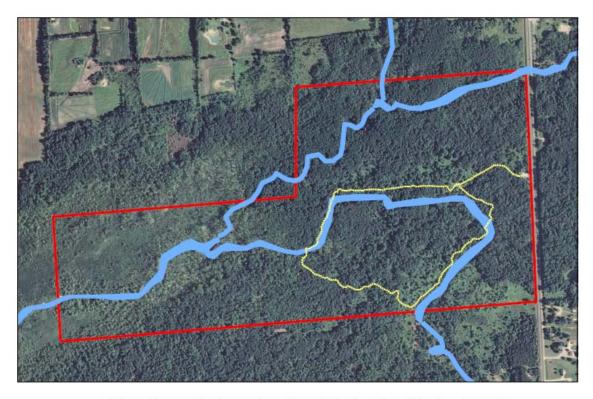
### Prepared by:

Paul Curtis, Management Plan Administrator Kristen Bennett, Park Planner John Bugg, Planning Assistant Jeff Johnson, Student Assistant Anna Popp, Student Intern

PLAN APPROVALS:  Chief Parks and Parks and Recreation Division	7/6/12 Date
Deputy Director, Resources	7//3//2 Date
Metth Curch	2/16/12
Director, Michigan Department of Natural Resources	Date



# **AERIAL IMAGE**





Sanilac Petroglyphs Historic State Park

Aerial Image

#### RESOLUTION NO. 06-2012-02

### MICHIGAN STATE PARKS ADVISORY COMMITTEE (MSPAC)

#### RESOLUTION TO RECOMMEND APPROVAL OF THE "SANILAC PETROGLYPHS HISTORIC STATE PARK – PHASE 1 - GENERAL MANAGEMENT PLAN"

ADOPTED: June 14, 2012

WHEREAS, the Department of Natural Resources' (DNR) Parks and Recreation Division has completed Phase 1 of the General Management Plan for Sanilac Petroglyphs Historic State Park; and

WHEREAS, the planning process reflects sensitivity to natural resource values, historic and cultural resource values, recreation and education opportunities, and is inclusive of all DNR programs and representative of eco-management; and

WHEREAS, the planning process was further inclusive of stakeholder, constituent, and public input; and

WHEREAS, the General Management Plan represents sound guidance for future planning phases that will be consistent with the mission of the DNR and the Parks and Recreation Division, and reflective of the purpose and significance of Sanilac Petroglyphs Historic State Park; and

WHEREAS, the General Management Plan has been reviewed and recommended for approval by the Parks and Recreation Division and the MSPAC Stewardship and Operations Subcommittee.

THEREFORE, BE IT RESOLVED, that the Michigan State Parks Advisory Committee recommends approval of the Sanilac Petroglyphs Historic State Park – Phase 1 - General Management Plan; and

THERFORE, BE IT FURTHER RESOLVED, that the Michigan State Parks Advisory Committee further recommends that the DNR Director approve the Phase 1 – General Management Plan for Sanilac Petroglyphs Historic State Park; and

THEREFORE, BE IT FURTHER RESOLVED, that upon the DNR Director's approval, the Parks and Recreation Division initiate the Phase 2 – Long Range Action Goals Plan for Sanilac Petroglyphs Historic State Park.

Submitted by: Chris Graham, Chair, MSPAC Operations and Stewardship Subcommittee

Motioned by:	Mike McDonald	Yeas:	8
Seconded by:	Annoesjka Steinman	Nays:	0
•	-	Abstained:	0
		Absent:	8

This Resolution was adopted by the Michigan State Parks Advisory Committee at their June 14, 2012, meeting as Resolution No. 06-2012-02.

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### **EXECUTIVE SUMMARY**



Management Planning is a defined strategic process within the PRD Strategic Plan (2009), reflecting the following Goals and Objectives:

• Goal 1, Objective 1.2: "Strengthen, update, and implement Management

Plans."

• Goal 3, Objective 3.1: "Perform landscape level assessment of recreation

opportunities in decision making."

• Goal 8, Objective 8.1: "Continue to use the CCMSP, MSWC, NRC, SWC, and

Ecoregional Teams and partners to advise in PRD planning, policy development, and issue resolution."

Sanilac Petroglyphs Historic State Park (HSP) is a 240 acre park located in Sanilac County, just east of Cass City, Michigan. Long-range planning for Sanilac Petroglyphs HSP began in February of 2007 when Parks and Recreation Division Planning and Operations staff met to initiate the Management Planning process. The process was put on hold for other Department and Division planning priorities until a planning grant was secured from the Coastal Zone Management Program in the fall of 2010 for Sleeper SP and Port Crescent SP. The proximity of Sanilac Petroglyphs HSP to these two parks and commonality of stakeholders made it a logical decision to re-start planning for Sanilac Petroglyphs HSP in September of 2010.

"Management Planning", is a comprehensive resource based process, based on our adaptation of the National Park Service planning methodology. In our iteration, which focuses on the four tenants of our Mission Statement, we; inventory the (1) natural resource values of the park, establish its (2) historic/cultural resources, identify the (3) recreational opportunities and explore the (4) educational and interpretation opportunities; establish the "significance"

(identity) of the park; and apply appropriate management zones that prescribe how the park will be managed.

Sanilac Petroglyphs (HSP) was deeded to the State of Michigan by the Michigan Archaeological Society. The deed for Sanilac Petroglyphs (HSP) was signed on August 22<sup>nd</sup>, 1971.

A Planning Team representing all DNR resource programs, with stakeholder and public input, defined the purpose and significance of Sanilac Petroglyphs (HSP) as the preservation of unique historic/cultural resources, and making available opportunities for education and interpretation of these unique and special resources. The 'natural' essence of the park is what defines the identity for Sanilac Petroglyphs (HSP).

In concert with the purpose and significance of the park, the Planning Team established the appropriate Management Zones and their extent of influence on the park. From a palette of nine standard zones, we utilized three zones for the park. The Management Zone Plan is found on the cover of this document and a thorough review of all zones is found within. A condensed review of those zones applied at Sanilac Petroglyphs HSP is as follows:

- Primitive Zone 234 acres of land falls into this zone description. This area includes the floodplain of the Cass River. Under the Primitive Zone designation, only foot traffic will be allowed. No mountain bike or equestrian riding will be permitted, and no hunting, fishing or other traditional recreation is allowed in the park per restrictions of the deed.
- History Education Zone This zone consists of approximately six total acres including the parking lot, the covered petroglyphs and the walk that connects them. The emphasis of this zone is "Education". Cultural/Historic resources are preserved, protected, and interpreted for visitor understanding. High level of development is common in this zone for management/control of people and traffic, protection of the resources, and historical interpretation.
- Cultural Landscape Zone A cultural overlay of the entire 240 acres is in place at Sanilac Petroglyphs HSP. The zone addresses the overall setting in which is found not only historic structures, but also non-structural evidence of the traditions, beliefs, practices, life ways, arts, crafts and social institutions of any community. Includes the petroglyph and old lumber camp.

The 2004 NRC Dedicated Boundary for Sanilac Petroglyphs HSP is the same as the current park boundary.

## INTRODUCTION

**Planning Process Overview.** The Management Planning Process develops a series of planning steps, each built upon the previous, that keep all planning and action decisions focused on (1) the mission of the Parks and Parks and Recreation Division, and (2) the specific Purpose and Significance of the park (the park's "Identity").

There are four phases of planning, implemented in the following order:

- Phase 1- General Management Plan (GMP) Long-range (20 yr) Goals.
- Phase 2- Long-range Action Goals Plan long range (10 yr) goals to attain the GMP (requires review of Phase 1).
- **Phase 3** 5-Year Implementation Plan specific actions to implement (requires review of Phase 1 and Phase 2).
- **Phase 4** Annual Action Plan and Progress Report what will be done this year and what progress was made on last year's plan.

This is the **General Management Plan**, the first step in our planning process. In this phase of planning, we are defining what the park will look like in twenty years. What will be the condition of flora and fauna? How will we address historic and cultural resources? What recreational opportunities will be provided? What education and interpretation efforts will meet the visitor? What will guide the manager's operational decisions? What will be the visitor's overall experience?

A key tool of this plan is the identification of "Management Zones" which define specific characteristics of the land, addressing management for:

- Natural resources
- Historic/cultural resources
- Recreational opportunities
- Education opportunities

These four elements represent the primary goals of the PRD Mission Statement, and provide guidance for both planning and management decisions. Within the parameters of this guidance, "Purpose" and "Significance" statements are developed for the park that establishes its unique identity and focus. No two parks are the same and this emphasis is directed at ensuring that the differences found from park to park are acknowledged, highlighted and celebrated.

Planning Objectives. The objective of this General Management Plan is to bring together Department staff, impacted and impacting stakeholders, and the public who use the park in a planning process that will define and clarify the unique "Purpose" and "Significance" of Sanilac Petroglyphs HSP. Collectively, we will reinforce those attributes in the planning and management decisions that impact the park through the implementation of the Management Zone Plan. Future action plans, whether focused on a development proposal, a resource improvement initiative, an interpretive program, or day-to-day management of the park will be guided by this General Management Plan.

# **PLANNING TEAM**

Accomplishment of our planning objectives was and is dependent upon the valuable input provided by all members of the 'Planning Team'. The following persons were participants in this planning process:

<u>name</u>	<u>Representing</u>
Paul Curtis	DNR-PRD, Management Plan Administrator
Kristen Bennet	DNR-PRD, Bay City District Planner
Carl Lindell	DNR-PRD, Bay City District Supervisor
George Lauinger	DNR-PRD, Sleeper SP Manager
Betsy Kish	DNR-PRD, Port Crescent SP Manager

Ray Fahlsing DNR-PRD, Stewardship Unit Manager Lisa Gamero DNR-PRD, Stewardship Cultural Specialist DNR-PRD. Stewardship Ecologist

Glenn Palmgren

Bob Clancv DNR-PRD, Stewardship Restoration Specialist

DNR-PRD, Student Assistant Jeff Johnson James Baker DNR-FD, Bay City Unit Manager DNR-PRD, Bay City Biologist Kathrin Schrouder

DNR-FMD, Rose Lake Area Fire Supervisor Bruce Miller

DNR-FMD, Geologist Tom Hoane

DNR-LED, Conservation Officer Scott Brown

DNR-WD, Cass Biologist Arnie Karr Don Bonnette DNR-WD, Technician

Michigan State Housing Development Authority (MSHDA)

Dean Anderson Archaeologist

Marine Archaeologist Wayne Lusardi

Michigan Archaeological Society Don Simons President

Saginaw Chippewa Indian Tribe of Michigan

Ms. Charmaine Benz Councilperson Ms. Marcella Hadden PR Representative Mr. Willie Johnson Ziibiwing Center Ms. Bonnie Ekdahl Ziibiwing Center

### **Birchler Arroyo Associates**

David Birchler Birchler Arroyo Associates \*
Jill Bahm Birchler Arroyo Associates \*

\* (We were assisted in this effort by the planning consultants, Birchler Arroyo Associates, who graciously accommodated our planning input needs as part of their contractual work with us in developing management plans for Port Crescent SP and Sleeper SP.)

### **CORE VALUES**

Guidance for the General Management Plan stems from the mission statement of the Department of Natural Resources (DNR) and the Parks and Recreation Division (PRD), and the purpose and significance statements that have evolved through the planning process. The core values found in these statements must be reflected in this long-range general management plan for Sanilac Petroglyphs HSP and subsequently reflected in any shorter-range action plans.

### **DNR Mission Statement**

"The Michigan Department of Natural Resources is committed to the conservation, protection, management, use and enjoyment of the state's natural and cultural resources for current and future generations."

### PRD Mission Statement

"Acquire, protect, and preserve the natural, historic, and cultural features of Michigan's unique resources and provide public recreation and educational opportunities."

The core values derived from the statements are that PRD will acquire, preserve, and protect; (1) natural resources, (2) cultural resources, (3) provide public recreation, and (4) provide educational opportunities.

### Park Purpose

Park purpose statements are based on park legislation, legislative history, special designations and DNR policies. These statements reaffirm the reasons for which Sanilac Petroglyphs HSP was identified as part of the state park system.

- This property was conveyed to the DNR on August 22, 1971, for use by the public with specific deed restrictions. Administration of the property was assigned to Parks Division to carry out those specific management requirements.
- To provide a place to view the Petroglyphs.
- To physically preserve the Petroglyphs from degradation.
- To provide educational and interpretive opportunities for the public that reflect the mission of the DNR, MSHDA-Office of State Archaeologist, the unique qualities of the petroglyphs, and the significance to Native Americans.

### Park Significance

Park Significance statements capture the essence of the park's importance to our state's natural and cultural heritage. These statements demonstrate the distinctiveness of Sanilac Petroglyphs HSP. Understanding the park's significance helps managers make decisions that preserve those resources and values necessary to accomplish the park's purpose. Sanilac Petroglyphs HSP:

- Contains the most extensive single group of petroglyphs know in Michigan
- Contains unique bedrock outcroppings of Marshall Sandstone
- The petroglyphs are a sacred site for Native Americans with spiritual significance to a broader population.
- The park and surrounding area have cultural significance due to historic and current uses.
- In addition to the petroglyphs, the park contains other features of archaeological significance (e.g. logging camp and old Cass Road).
- The park is an active ethnological site for current cultural practices by the Saginaw Chippewa Indian Tribe.
- Natural features include white pine that dates back to the big fire of the late 1800's.
- There are opportunities for interpretive trail for its educational significance as well as for strong mutual education partnerships between Native Americans / DNR / Michigan Archeological Society (MAS).
- The North Branch Cass River is an important asset to the park.
- The exposed bedrock found within the park is unique and presents a
  physical record of the past. It is apparent that a unique primitive technique
  was used to cut the petroglyph images into the rock. However, the
  condition of the petroglyphs needs attention and a plan for stewardship
  should be developed with Native American and MAS partners.

### Legal Mandates

For general management plans, all legal mandates will be identified and will serve to further guide the development of the plan and subsequent action plans. The term *legal mandate* refers not only to state law, but also administrative policies and directives of the Natural Resources Commission, the DNR, and

PRD. There are several legal mandates specific to Sanilac Petroglyphs HSP, detailing specific responsibilities of its owner and the duties of agencies designated to manage it, as well as general legal mandates having to with natural resource and historical protection. At Sanilac Petroglyphs HSP, the following legal mandates have been identified:

### **Deed Restrictions**

The site was given as a gift to the DNR from the Michigan Archaeological Society (MAS). The deed spells out restrictions on the property's use. This property is conveyed fro the use by the public and under the following conditions:

- (1) To preserve the aboriginal petroglyphs and develop said premises for the benefit of mankind from the present to distant future generations as a cultural and educational facility (as distinguished from a sports or recreational facility) for promoting a better appreciation of man's natural and cultural heritage and of his continuing relationship to his environment.
- (2) Except as it may be, both a part of and incidental to a display, a demonstration, or a research project in furtherance of aforesaid purpose, no part of said premises, nor the product thereof, shall be used for private or public economical gain. Entrance or admission fees to the areas may be charged by the Michigan Department of Natural Resources or its successors as deemed necessary.
- (3) If the property is not used for the intended purpose by the Michigan Department of Natural Resources, or its successors, within a reasonable time hereafter, or if thereafter it ceases to be so used, then in that event it shall revert to the party of the first part, its successors or assigns.
- \*A scanned copy of original deed is attached to the end of this document (starting on page 45).

# Natural Resources and Environmental Protection Act, Public Act 451 of 1994, Part 741

This act is the recodification of law that established the Michigan State Park System and defined its powers and duties. Notable in this law is Section 324.74102, which identifies the duties of the department and reinforces the core values.

This section reads:

- (1) The legislature finds:
- (a) Michigan State Parks preserve and protect Michigan's significant natural and historic resources.
- (b) Michigan State Parks are appropriate and uniquely suited to provide opportunities to learn about protection and management of Michigan's natural resources.

- (c) Michigan State Parks are an important component of Michigan's tourism industry and vital to local economies.
- (2) The department shall create, maintain, operate, promote, and make available for public use and enjoyment, a system of state parks to preserve and protect Michigan's significant natural resources and areas of natural beauty or historic significance, to provide open space for public recreation, and to provide an opportunity to understand Michigan's natural resources and need to protect and manage those resources.

### Michigan Historical Commission Act, P.A. 271 of 1913, Section 4

Under Section 4, the Michigan Historical Commission is responsible for collecting, preserving, and displaying objects and materials relating to the history of Michigan and its people. Additionally, it states that DoS must display in historical museums objects indicative of the life, customs, dress, and resources of the residents of Michigan.

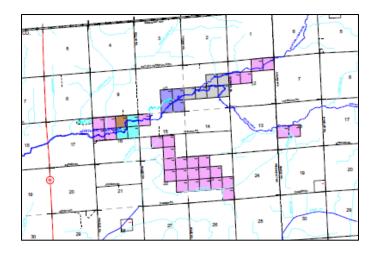
### The section reads:

The commission shall collect, arrange, and preserve material, including records, archives, paintings, and statuary illustrative of an relating to the history of Michigan and the old northwest territory; procure and preserve narratives of the early pioneers; collect material concerning the Indian tribes in Michigan; collect, prepare, and display in the Michigan historical museum objects indicative of the life, customs, dress, and resources of the early residents of Michigan; ...

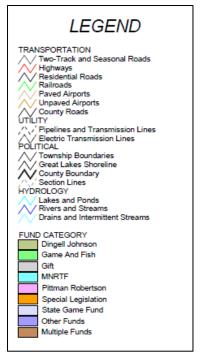
### DNR Director's Land Use Order 5.12 (17)

This land use order lists prohibited conduct at Sanilac Petroglyphs Historic State Park, including entering into the fenced area containing the petroglyph rock when the entry gate is closed or walking upon or otherwise coming into contact with the petroglyph rock within the fenced area.

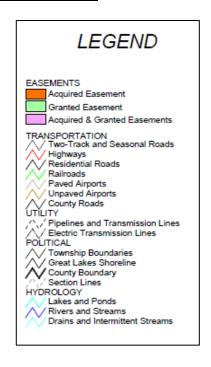
### Land Ownership / Land Acquisition

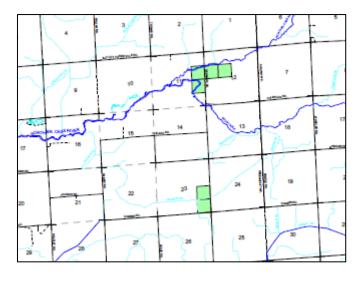


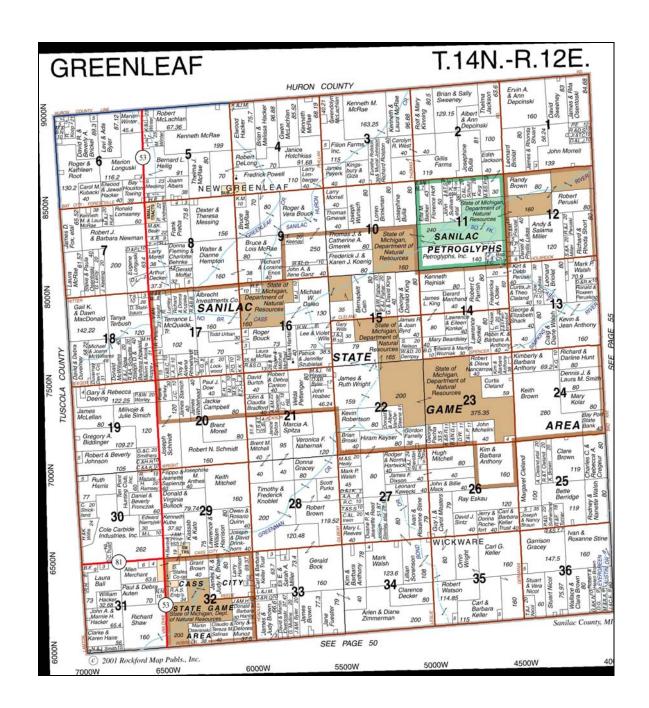
LOTS (Land Ownership Tracking System)



### **EASEMENTS**



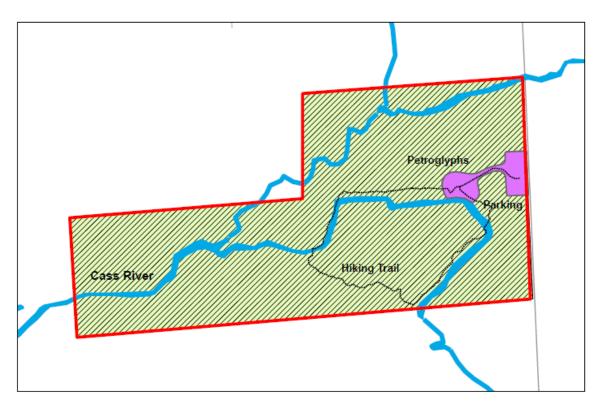




## **GENERAL MANAGEMENT PLAN**

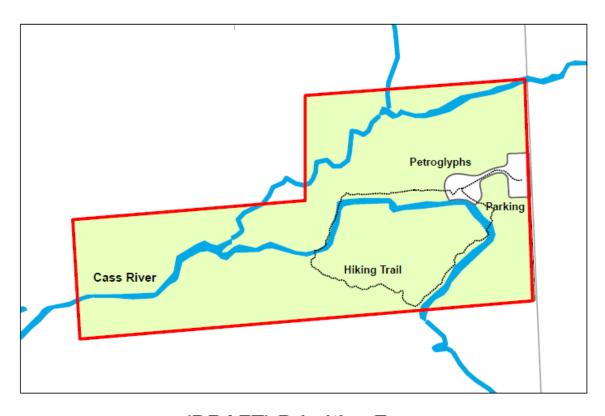
With the guidance of the Sanilac Petroglyphs HSP Planning Team (made up of Department resource staff, stakeholders, and public), the park "Purpose and Significance" statements were drafted and adopted. These statements established an identity for the park, to include the following: Sanilac Petroglyphs HSP was established for the purpose of preserving an educational natural resource.

Based on this 'identity' for the park, a Management Zone Plan" was subsequently drafted and adopted with stakeholder and public support. The <u>Management Zone Definitions</u> apply to each zone used, with special considerations highlighted in the descriptive narratives of management guidance for each zone of the park.





### **PRIMITIVE ZONE**





# (DRAFT) Primitive Zone

ZONE NAME: Primitive

234 acres of the park falls under this zone description. This zone emphasizes the park's high quality natural resources. Attaining and maintaining a high quality natural resource condition dictates the extent to which recreational improvements or uses are allowed.

The low wetland areas within the park represent the Cass River floodplain. The soils in these areas are loam or silt loam and are easily subject to damage. Under the Primitive Zone designation, only dispersed and low frequency use, such as foot traffic, will be allowed. No mountain bike or equestrian uses are permitted.

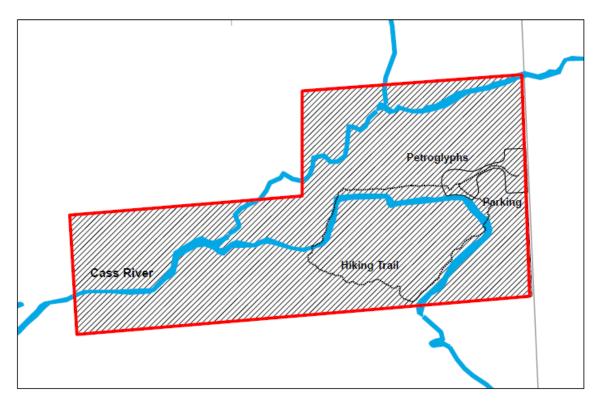
Following are the prescribed qualities for the Primitive Zone:

 Natural Resources. The Natural Resources Management Plan outlines several management objectives for this zone. A survey is proposed for non-native invasive species and then control of these invasive species as much as practical.

This zone will reflect natural processes, with vegetative management only allowed to restore and maintain natural ecological structure and processes (such as removing of invasive species), to address hazard trees, and to manage pests and disease.

- Historic/Cultural Resources. Evidence of a timber camp is present within the park boundary. If any activity in this zone requires earthwork, it must first be reviewed and approved by Stewardship.
- Recreational Opportunities. In compliance with the deed restrictions, only low impact recreation (e.g. hiking, birding, educational and interpretive activities, etc.) associated with nature and cultural appreciation, will be allowed in this zone. No equestrian or mountain biking trails will be allowed. Hunting, trapping, and shore fishing is prohibited.
- Education Opportunities. The natural resources of the park provide educational opportunities. Specific planning recommendations for education and interpretation will require input from Marketing Education and Technology (MET). There is interpretive signage along the trail.
- Visitor Experience. This area will reflect a 'natural' feel, a significant sense of solitude, and a lack of man-made improvements.
- Management Focus. Management of this zone will be focused on maintaining the low human-impact character of this area with an emphasis on natural resource quality.
- Development. Only trail improvements (can include boardwalks and/or overlooks) and educational or interpretive signage will be the evidence of man-made elements in this zone. Any improvements needed for resource protection, such as erosion control, shall be 'natural' in character. The focus is to maintain as little evidence of human activity as possible. All development will meet the approval requirements of the PRD planning process.

### **CULTURAL LANDSCAPE ZONE**





# (DRAFT) Cultural Landscape Zone

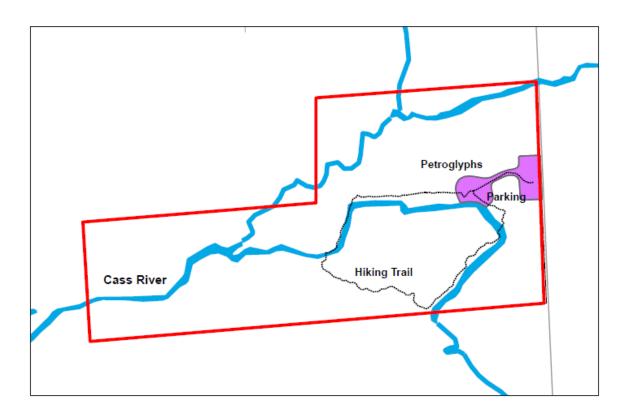
ZONE NAME: Cultural Landscape

The Cultural Landscape Zone encompasses all 240 acres of the entire park. This zone addresses the overall setting in which is found not only historic structures, but also non-structural evidence of the traditions, beliefs, practices, lifeways, arts, crafts and social institutions of any community. In addition to the petroglyphs, a location associated with a particular culture, such as the remnants of a timber camp or log cabin would qualify as a 'Cultural Landscape Zone'.

The Cultural Landscape Zone is an 'overlay' over the 'Resource' zones, and as such, the guidance for those underlying zones will also apply.

- Natural Resources. Natural resources that have been identified as important to the cultural landscape are managed to perpetuate those qualities. This can include vegetation management tools.
- Historic/Cultural Resources. Structures, remnants, and other landscape characteristics and features which represent the evolution of the resource, temporal change and the continuum of time will be preserved, protected and enhanced. Rehabilitation or adaptive re-use for operational or education purposes are permitted.
- Recreation Opportunities. Visitors can engage in sightseeing, recreational, and education activities in a cultural setting compatible with and sensitive to the setting and the underlying zone requirements.
  - In compliance with the deed restrictions, only low impact recreation (e.g. hiking, birding, educational and interpretive activities, etc.) associated with nature and cultural appreciation, will be allowed in this zone. No equestrian or mountain biking trails will be allowed. Hunting, trapping, and shore fishing is prohibited.
- Education Opportunities. Interpretive signage at trail heads, on the trail, overlooks and other points of interest. The story of how this area was settled and used by prehistoric peoples, Native Americans, and early Europeans could be conveyed, sensitive to the underlying management zones.
- Visitor Experience. For resources available to public viewing and/or use, moderate visitor encounters are accommodated. Visitors engage in sightseeing, recreational, and education activities in a cultural setting. Moderate noise, time commitment and interaction with others can be expected. Visitors may encounter Native American rituals or events at various times of the year at the petroglyphs.
- Management Focus. Management focuses on the compliance with the deed restrictions, and maintaining the cultural character of the zone, with emphasis on natural resource quality.
- Development. Non-historic development and activities that do not conflict with the cultural landscape are tolerated in this zone. Moderate levels of development and accessibility could be provided to support visitor access and use. All development will meet the approval requirements of the PRD planning process.

### HISTORY EDUCATION ZONE





# (DRAFT) History Education Zone

ZONE NAME: History Education

The History Education Zone totals six (6) acres of the park, and covers the parking lot area, the covered petroglyphs area, and the connection between those two features. The emphasis of this zone is to provide protection for and educational awareness of the petroglyphs. Cultural/Historic resources are restored and interpreted for visitor understanding. High level of development is common in this zone for management/control of people and traffic, protection of the resources, and historical interpretation.

 <u>Natural Resources</u>. Natural resources that have been identified as important to the historic/cultural landscape are managed to perpetuate those qualities. This can include non-native species specific to the era and/or location.

- Historic/Cultural Resources. The petroglyphs are the primary resource for this zone. They will be protected for visitor understanding and in-depth interpretation of historic period(s) and culture(s). Cultural and natural resources (including historic buildings, structures, and landscapes) may be restored to specific time period(s) if essential for the visitor understanding of historic period(s) and rehabilitated to support visitor and staff activities for indepth interpretation of historic period(s).
- Recreation Opportunities. Park visitors engaged in viewing the petroglyphs, sightseeing and educational activities in a cultural setting.
- **Education Opportunities.** Active interpretation is provided by the DNR at the petroglyphs as is interpretive signage at the site and parking lot. We recognize that there might be others that would want to participate in interpretation efforts. There is need for improved protection of the petroglyphs, and discussion in this planning process focused on the possibility of an "interpretive building" to cover the petroglyphs and provide a controlled environment for assured protection and expanded education/interpretation opportunities.

In addition, the Ziibiwing Center (operated by the Saginaw Chippewa Indian Tribe in Mount Pleasant, MI.) provides an excellent and complete indoor exhibit that focuses on the significance of the Sanilac Petroglyphs. A nominal entrance fee is charged, and for those interested in the Native American culture, the Ziibiwing Center is a 'must see.'

- Visitor Experience. For resources available to public viewing and/or use, moderate visitor encounters are accommodated. Visitors engage in sightseeing and education activities in a cultural setting. Moderate noise, time commitment and interaction with others can be expected. Native Americans hold several ceremonies throughout the year, which visitors may respectfully observe.
- Management Focus. The management focus of this zone will be the preservation and protection of the petroglyphs and maintain the historic/cultural integrity of the zone. Keep development consistent with the zone. Strive for quality visitor experience of historic interests. Preserve and protect the petroglyphs and carry out the specific conditions of the deed.
- <u>Development.</u> There is a desire to improve protection of the petroglyphs with consideration of a more enclosed structure at the petroglyphs. Development of parking, access to petroglyphs and installation of signage/kiosks will be considered within this zone. All development will meet the approval of the PRD planning process

### **FUTURE PLAN INSERTS**

**10-Year Action Goals Plan** (LONG-RANGE ACTION GOALS TO ATTAIN GMP) - Phase-2 of the Management Planning Process. Includes review and update of General Management Plan.

**5-Year Implementation Plan** (SPECIFIC ACTIONS TO IMPLEMENT) - Phase-3 of the Management Planning Process. Includes review and update of General Management Plan and Phase 2 Plan.

**Annual Work Plan and Progress Report** - Phase-4 of the Management Planning Process.

**Operational/Management Resources** - The following categories are established as a guide for the park manager to use to supplement this working document. Other categories can be added as needed.

- Annual Work Plan (NOTE...this should tie-in with Phase 4 Annual Report of Management Planning)
- Phase III Natural Resources Management Plan
- Staffing plan
- Budget plan
- Equipment inventory and needs
- Training (required and desired)
- Public relations / marketing / outreach
- Programming (special events, MCCC activities, volunteers, etc.)
- Public health, safety and welfare
  - Water system
  - Wastewater system
  - Electrical system
  - Law enforcement
  - Emergency access plans
  - Wildfire management plan
  - Dam Safety reports
- CRS
- FOIA
- Raster Image Index
- Raster Images of historic park plans
- Park Infrastructure data
- Parcel mapping of land ownership
- Other...

# **SUPPORTING ANALYSIS**

#### 240 acres

Sanilac County, Greenleaf Township

Latitude: 43.656423 Longitude: -83.017867

(Latitude and Longitude are taken at the entrance to the park)

### LOCATION AND SURROUNDING COMMUNITY

Sanilac Petroglyphs is located in Greenleaf Township in Sanilac County. It is on the North branch of the Cass River, one mile south of the Bay City-Forestville Road. It lies four miles east of M-53. It is 80 miles from Flint, 77 miles from Port Huron, 62 miles from Saginaw, 45 miles from Bay City, and about 90 miles from Detroit. It is approximately an hour to an hour and a half drive for millions of Michigan residents.



### Sanilac County Demographics

As of 2010, Sanilac County's population is 43,349 people. Since 2000, it has had a population growth of -2.67 percent. The median home cost in Sanilac County is \$111,870. Home appreciation the last year has been -4.10 percent. Compared to the rest of the country, Sanilac County's cost of living is 14.90% Lower than the U.S. average. Sanilac County public schools spend \$4,784 per student. The average school expenditure in the U.S. is \$5,678. There are about 19.7 students per teacher in Sanilac County. The unemployment rate in Sanilac County is 16.90 percent (U.S. avg. is 10.20%). Recent job growth is Negative. Sanilac County jobs have decreased by 10.16 percent. (U.S. Census Bureau website)

# Sanilac County Economic Characteristics

Selected Economic Characteristics	Estimate	Margin of Error	Percent	Margin of Error
EMPLOYMENT STATUS				
Population 16 years and over	34,484	+/-91	34,484	(X)
In labor force	21,017	+/-448	60.9%	+/-1.3
Civilian labor force	21,017	+/-448	60.9%	+/-1.3
Employed	18,741	+/-441	54.3%	+/-1.3
Unemployed	2,276	+/-278	6.6%	+/-0.8
Armed Forces	0	+/-136	0.0%	+/-0.1
Not in labor force	13,467	+/-444	39.1%	+/-1.3
Civilian labor force	21,017	+/-448	21,017	(X)
Percent Unemployed	10.8%	+/-1.3	(X)	(X)
Females 16 years and over	17,596	+/-85	17,596	(X)
In labor force	9,460	+/-346		+/-1.9
Civilian labor force	9,460	+/-346		+/-1.9
Employed	8,461	+/-302	48.1%	+/-1.7
Own children under 6 years	3,063	+/-135	3,063	(X)
All parents in family in labor force	1,795	+/-221	58.6%	+/-7.0
Own children 6 to 17 years	6,691	+/-240	6,691	(X)
All parents in family in labor force	4,661	+/-408	69.7%	+/-5.2
COMMUTING TO WORK				
Workers 16 years and over	18,361	+/-445	18,361	(X)
Car, truck, or van drove alone	14,518	+/-521	79.1%	+/-2.0
Car, truck, or van carpooled	1,908	+/-288	10.4%	+/-1.5

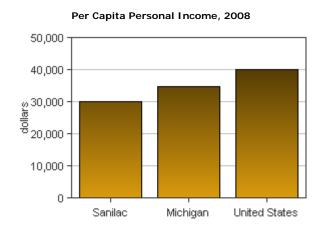
Selected Economic Characteristics	Estimate	Margin of Error	Percent	Margin of Error
Public transportation (excluding taxicab)	107	+/-104	0.6%	+/-0.6
Walked	690	+/-178	3.8%	+/-1.0
Other means	236	+/-85	1.3%	+/-0.5
Worked at home	902	+/-170	4.9%	+/-0.9
Mean travel time to work (minutes)	29.7	+/-1.6	(X)	(X)
OCCUPATION				
Civilian employed population 16 years and over	18,741	+/-441	18,741	(X)
Management, professional, and related occupations	4,518	+/-366	24.1%	+/-1.9
Service occupations	2,790	+/-242	14.9%	+/-1.3
Sales and office occupations	4,270	+/-346	22.8%	+/-1.7
Farming, fishing, and forestry occupations	408	+/-106	2.2%	+/-0.6
Construction, extraction, maintenance and repair occupations	2,392	+/-299	12.8%	+/-1.6
Production, transportation, and material moving occupations	4,363	+/-390	23.3%	+/-1.9
INDUSTRY				
Civilian employed population 16 years and over	18,741	+/-441	18,741	(X)
Agriculture, forestry, fishing and hunting, and mining	1,295	+/-210	6.9%	+/-1.1
Construction	1,594	+/-212	8.5%	+/-1.2
Manufacturing	4,511	+/-405	24.1%	+/-2.1
Wholesale trade	461	+/-132	2.5%	+/-0.7
Retail trade	2,344	+/-312	12.5%	+/-1.6
Transportation and warehousing, and utilities	846	+/-174	4.5%	+/-0.9
Information	228	+/-63	1.2%	+/-0.3
Finance and insurance, and real estate and rental and leasing	604	+/-125	3.2%	+/-0.7
Professional, scientific, and management, and administrative and waste management services	793	+/-164	4.2%	+/-0.9
Educational services, and health care and social assistance	3,500	+/-257	18.7%	+/-1.4

Selected Economic Characteristics	Estimate	Margin of Error	Percent	Margin of Error
Arts, entertainment, and recreation, and accommodation, and food services	1,086	+/-179	5.8%	+/-0.9
Other services, except public administration	855	+/-193	4.6%	+/-1.0
Public administration	624	+/-143	3.3%	+/-0.8
CLASS OF WORKER				
Civilian employed population 16 years and over	18,741	+/-441	18,741	(X)
Private wage and salary workers	14,640	+/-448	78.1%	+/-1.6
Government workers	1,984	+/-258	10.6%	+/-1.3
Self-employed workers in own not incorporated business	2,007	+/-250	10.7%	+/-1.3
Unpaid family workers	110	+/-52	0.6%	+/-0.3
INCOME AND BENEFITS (IN 2008 INFLATION-ADJUSTED DOLLA	RS)			
Total households	16,985	+/-368	16,985	(X
Less than \$10,000	1,581	+/-218	9.3%	+/-1.2
\$10,000 to \$14,999	976	+/-172	5.7%	+/-1.0
\$15,000 to \$24,999	2,631	+/-287	15.5%	+/-1.7
\$25,000 to \$34,999	2,146	+/-236	12.6%	+/-1.4
\$35,000 to \$49,999	3,019	+/-302	17.8%	+/-1.7
\$50,000 to \$74,999	3,664	+/-283	21.6%	+/-1.6
\$75,000 to \$99,999	1,528	+/-175	9.0%	+/-1.
\$100,000 to \$149,999	1,042	+/-145	6.1%	+/-0.9
\$150,000 to \$199,999	231	+/-80	1.4%	+/-0.5
\$200,000 or more	167	+/-61	1.0%	+/-0.4
Median household income (dollars)	40,629	+/-1,527	(X)	(X
Mean household income (dollars)	49,105	+/-1,682	(X)	(X
With earnings	12,400	+/-375	73.0%	+/-1.8
Mean earnings (dollars)	50,380	+/-1,844	(X)	(X

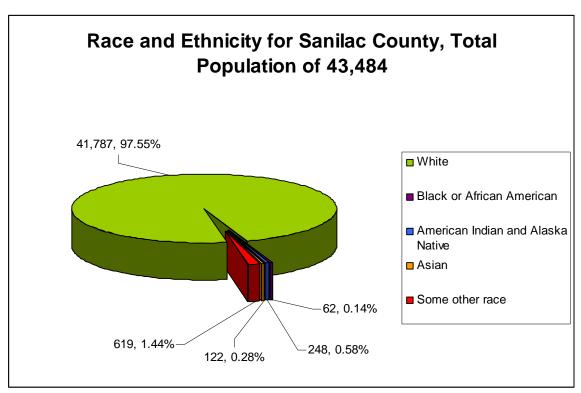
Selected Economic Characteristics	Estimate	Margin of Error	Percent	Margin of Error
With Social Security	5,858	+/-267	34.5%	+/-1.5
Mean Social Security income (dollars)	15,131	+/-448	(X)	(X)
With retirement income	3,635	+/-278	21.4%	+/-1.5
Mean retirement income (dollars)	16,564	+/-1,469	(X)	(X)
With Supplemental Security Income	584	+/-123	3.4%	+/-0.7
Mean Supplemental Security Income (dollars)	8,211	+/-1,107	(X)	(X)
With cash public assistance income	610	+/-133	3.6%	+/-0.8
Mean cash public assistance income (dollars)	2,810	+/-600	(X)	(X)
With Food Stamp benefits in the past 12 months	2,377	+/-257	14.0%	+/-1.5
Families	12,089	+/-339	12,089	(X)
Less than \$10,000	755	+/-183	6.2%	+/-1.5
\$10,000 to \$14,999	316	+/-95	2.6%	+/-0.8
\$15,000 to \$24,999	1,504	+/-201	12.4%	+/-1.6
\$25,000 to \$34,999	1,458	+/-175	12.1%	+/-1.4
\$35,000 to \$49,999	2,273	+/-261	18.8%	+/-2.0
\$50,000 to \$74,999	3,085	+/-263	25.5%	+/-2.3
\$75,000 to \$99,999	1,441	+/-183	11.9%	+/-1.5
\$100,000 to \$149,999	911	+/-141	7.5%	+/-1.2
\$150,000 to \$199,999	190	+/-66	1.6%	+/-0.5
\$200,000 or more	156	+/-60	1.3%	+/-0.5
Median family income (dollars)	48,228	+/-2,033	(X)	(X)
Mean family income (dollars)	56,044	+/-2,134	(X)	(X)
Per capita income (dollars)	19,701	+/-641	(X)	(X)

Selected Economic Characteristics	Estimate	Margin of Error	Percent	Margin o
Median nonfamily income (dollars)	22,492	+/-1,389	(X)	(X
Mean nonfamily income (dollars)	29,440	+/-2,068	(X)	(X
Median earnings for workers (dollars)	23,110	+/-1,009	(X)	(X
Median earnings for male full-time, year-round workers (dollars)	38,153	+/-2,349	(X)	(X
Median earnings for female full-time, year-round workers (dollars)	26,332	+/-880	(X)	(X
PERCENTAGE OF FAMILIES AND PEOPLE WHOSE INCOME IN T LEVEL	HE PAST 12	MONTHS IS B	ELOW THE	E POVERTY
All families	11.1%	+/-1.9	(X)	(X
With related children under 18 years	18.0%	+/-3.5	(X)	(X
With related children under 5 years only	27.0%	+/-10.6	(X)	(X
Married couple families	4.9%	+/-1.0	(X)	(X
With related children under 18 years	5.9%	+/-1.9	(X)	(X
With related children under 5 years only	3.4%	+/-2.7	(X)	(X
Families with female householder, no husband present	41.8%	+/-9.1	(X)	(X
With related children under 18 years	53.1%	+/-11.0	(X)	(X
With related children under 5 years only	76.5%	+/-17.0	(X)	(X)
All people	13.9%	+/-1.6	(X)	(X)
Under 18 years	19.9%	+/-3.5	(X)	(X)
Related children under 18 years	19.5%	+/-3.5	(X)	(X
Related children under 5 years	29.1%	+/-7.2	(X)	(X
Related children 5 to 17 years	16.0%	+/-3.6	(X)	(X
18 years and over	12.1%	+/-1.3	(X)	(X
18 to 64 years	12.5%	+/-1.5	(X)	(X
65 years and over	10.6%	+/-2.0	(X)	(X
People in families	11.5%	+/-1.8	(X)	(X
Unrelated individuals 15 years and over	26.9%	+/-3.0	(X)	(X

Source: U.S. Census Bureau, 2006-2008 American Community Survey



### Race and Ethnicity (chart)



Source: U.S. Census Bureau, 2006-2008 American Community Survey

### **HISTORY OF THE PARK**

Sanilac Petroglyphs HSP is a 240-acre unit in The Thumb of Michigan. The petroglyph rock is a sandstone rock outcrop that contains carvings from Native Americans. There are additional sites on the property that demonstrate historical eras from the post-glacial period through the logging and pioneer era of Michigan. The site contains a short hiking loop with interpretive signage. It is managed jointly by the Department of Natural Resources and Environment.

Approximately 400-1000 years ago, an unknown group of Native Americans carved figures known as petroglyphs onto the sandstone outcrops near the North and South Forks of the Cass River. The Thumb of Michigan was once primarily a hunting ground for the Ojibway. The area was then logged extensively during the 1800s. The petroglyphs remained buried under vegetation but were exposed after massive forest fires swept through the area in 1871 and 1881, which also ruined the timber industry in the area. The land was then farmed and pastured until 1966. Between 1965 and 1967, the Michigan Archaeological Society (MAS) raised private funds to purchase 240 acres of property surrounding the Petroglyphs. MAS transferred the land to the State of Michigan in 1971. The 240 acres of park are comprised of what were originally two parcels used for farming and grazing—the south 160 acres were part of the Temple Dorr property and the north 80 acres were owned by the Jackson family. Prior to that, the land was owned and occupied as follows:

- Temple Dorr, timber cruiser, builds a cabin along the banks of the Cass River on the property. He subdivides the area into 40-acre parcels and sells the timber rights to a lumber company.
- 1876 A Saginaw lumber company sets up a lumber camp on the site. They operate for two years, running logs up the Cass River to Saginaw.
- 1878 Alexander Cleland, an employee of the lumber company, and Frances Harris homestead on the property containing the Petroglyphs.
- A massive forest fire starts in Breckenridge in Central Michigan and spreads east to Lake Huron (125 miles) in one day, burning everything in its path. The property reverts to the State of Michigan after the fire, because of delinquent taxes.



- A group of real estate investors from Detroit purchase the property, a 720 acre plot, and plan to subdivide it and sell off 40-acre parcels. Pending sale, the property is rented to the Olson family.
- The 720-acre plot containing the petroglyph rock was traded to Jay Britton after real estate investors fail to sell any of the subdivided parcels.
- The Michigan Archaeological Society purchases 240 acres of property surrounding the Petroglyphs, from two different owners.
- Michigan Archaeological Society gives the 240-acre property to the State of Michigan for educational and interpretive purposes
- 1978 Construction of: protective structure over the petroglyph, security fence around the petroglyph, and parking area for visitors.

# RELATIONSHIP OF SANILAC PETROGLYPHS TO OTHER PARK RESOURCES

Sanilac Petroglyphs contain the largest quantity of known Native American rock carvings in Michigan. There are, however, other glyphs in the Great Lakes Region, in the U.S. and Canada.

The Peterborough Petroglyphs, near Peterborough, Ontario, were rediscovered by historian Charles Kingam in 1924. The site is managed as a provincial park. The Peterborough Petroglyphs consist of more than 900 images, which are carved into a slab of crystalline limestone, 180 feet by 100 feet wide. About 300 of these are discipherable shapes, including humans, shamans, animals, solar symbols, geometric shapes and boats. The stone is believed to have been carved by the Algonkian people between 900 and 1400 AD. Today, the First Nations people of Ontario call the carvings *Kinomagewapkong*, meaning "the rocks that teach." However, there are several other theories of the date and authors of the petroglyphs, including:



 Retired Harvard professor Barry Fell believes the petroglyphs are inscriptions by a Norse king named Woden-lithi (Servant of Odin), who was said to have sailed from Norway up the St. Lawrence River in about 1700 BC.

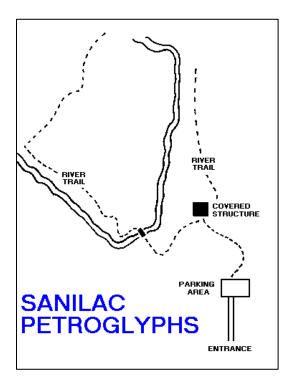
- Mayanologist David H. Kelley viewed the petroglyphs and declared that some of the symbols were European, dating perhaps to ca. 1000 BC
- According to Andis Kaulins and Megaliths.co.uk, the petroglyphs are a sky map of the heavens from c.3117 BC based on European tradition; they have nothing to do with Native American traditions.



The Jeffers Petroglyphs of Southwest Minnesota is another example. The Jeffers Petroglyphs are a series of approximately 2000 American Indian images carved in quartzite outcrops preserved by the Minnesota Historical Society since 1966. Archaeologists date the carvings from as far back as 5000 years old to 250 years old. It also contains large section of reconstructed prairie eco-system and

a large visitor center Today American Indians, including The Iowa, Arapaho, Cheyenne and Dakota peoples visit and worship at this site.

### **CURRENT LAND USE**



The park is focused and centered on the petroglyphs. There are also limited recreational opportunities on the property, including a short hiking loop and a day-use area for picnicking. There is a one-mile interpretive trail that contains 10 history-related interpretive points.

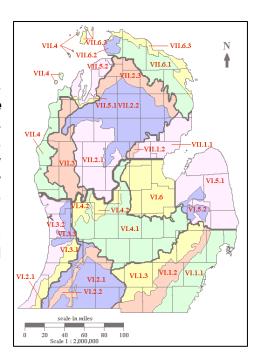
There is a stretch of trail by the river that gets flooded every spring. There are two pedestrian bridges along the trail.

The park is bordered by private and public property. Portions of Sanilac State Game Area border the park to the east and the west. Park staff have distributed "no hunting" signs to landowners to discourage hunting on the Petroglyphs site. Other private land nearby is largely agricultural.

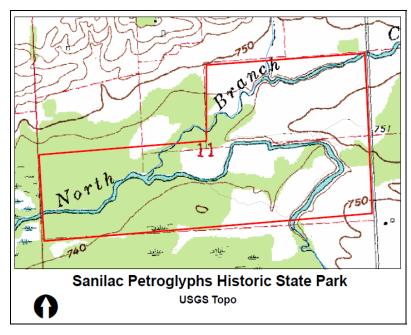
### **Natural Resources**

### **ECO-REGIONAL CONTEXT**

Petroglyphs falls within Sanilac subsubsection VI.5.1, the Sandusky Lake Plain, eco-region 1 of Michigan. It is characterized by a flat lake plain that slopes gradually to Lake Huron and a narrow moraine that parallels the shore of Saginaw Bay and Lake Huron and occupies the center of the narrow sub-subsection. Agricultural development has been intensive as a result of a lake-modified climate and productive loamy soils



### **Topography**



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<sup>&</sup>lt;sup>1</sup> Albert, Dennis A. 1995. Regional landscape ecosystems of Michigan, Minnesota, and Wisconsin: a working map and classification. Gen. Tech. Rep. NC-178. St. Paul, MN: U.S. Department of Agriculture, Forest Service, North Central Forest Experiment Station. Jamestown, ND: Northern Prairie Wildlife Research Center Online. http://www.npwrc.usgs.gov/resource/habitat/rlandscp/index.htm (Version 03JUN1998).

### **WATER RESOURCES**

Two branches of the Cass River (North and South) run through the park.

### **CLIMATE**

CLIMATE				
MONTH	AVG. MIN TEMP	AVG. MAX TEMP.		
January	14F./-10C	29F./-2C.		
July	58F./14C.	82F./28C.		
PRECIPITATION	RAINFALL	SNOWFALL		
Average Annual	28in./71cm.	54in./137cm.		
<b>GROWING SEASON</b>	DAYS ABOVE 90F/32C	DAYS BELOW 0F/-18C		
147	10	8		
Source: NOAA Climate Summary, 1995				

### **GEOLOGY**

Approximately 250 million years ago, sandstone was formed by the compression of deep beds of gray sand. Surrounding the Sanilac Petroglyph site is exposed bedrock (Marshall Sandstone). This site is one of the few places in Michigan where bedrock outcrops to the surface.

The site was affected by glacial melt about 12,500 years ago. When the Port Huron ice advance (which sent giant fingers into Saginaw Bay and Lake Huron) began to melt, it formed a roaring stream about a half a mile wide, known as Ubly Channel. The stream flowed westward, following what are now the Cass, Maple, and Grand Rivers, to the outlet into the Mississippi, because the outlet through the St. Lawrence River was still blocked by ice. The vast quantities of water flowing through the Ubly Channel at this stage probably completely filled the floodplain section of the Cass River at the petroglyphs site, creating at the same time a strong flow and current. This action resulted in the formation of the large potholes found today along the Cass River near the glyphs' location.

### <u>SOILS</u>

On the lake plain, slopes are typically in the 0 to 2 percent slope class. Approximately one-third of the soils are poorly drained or very poorly drained; most of the remaining soils are moderately well drained. In the past, the soils of the sandy channels on the lake plain were often poorly drained or very poorly drained. Low dunes within these channels had excessively drained soils. Most of

the lacustrine soils were drained to allow agricultural development of the land. Peat soils were also burned. On the end moraines, slopes are gentle to moderate, generally in the 2 to 6 percent slope class, and soils are moderately well and well drained. Soils on the end moraines are classified as Hapludalfs, with some Argiaquolls; those of the lake plain are classified as Haplaquents, with some Haplaquods (USDA Soil Conservation Service 1967).

It cannot be assumed that any piece of land can be used for recreation. Some soils are unsuitable for recreation. Among the soil properties that affect recreation uses are the following:

- Flood hazard severely limits use of soils for camps and recreation buildings, but such soils are suitable for hiking and nature study and other less intensive uses.
- If bedrock is at shallow depth, it is difficult to level soils for playgrounds and campsites, to construct roads and trails, and to establish vegetation. Shallow soils are poorly suited for uses that require extensive grading.
- A clayey or sandy surface layer makes some soils undesirable for playgrounds, campsites, or other uses that require heavy foot traffic.
- Soils high in clay content are sticky when wet and remain wet for long periods after rains. Loose sandy soils are unstable and dusty when dry. Sandy loam and loam soils are the most suitable for recreation uses that require heavy foot traffic.
- The absorptive capacity of soils determines whether a septic tank absorption field will work. The soil should be deep and permeable, there should be no seasonal high water table, the slope should not be steep, and there should be no danger of flooding.

The soil at Sanilac Petroglyphs is mainly Alluvial land with poorly drained loams, with 0 to 2 percent slopes as well as Tyre loamy sand and sandy loam, and losco sandy loam and Croswell loamy sand.

### FLORA

Several different types of plant habitats exist at Sanilac Petroglyphs. A portion of the low floodplain along the two forks of the Cass River is occupied by swamp forest (elm-ash-maple) and dogwood-alder fen. Most of the area surrounding the petroglyphs is occupied by old-field type vegetation, resulting from grazing. Plants common to the area are wild carrot, self-heal, tawny hawkweed, common

St. John's Wort, common chickweed, English plantain, deptford pink, pale-flowered cinquefoil, pussy toes, and common mullein. The area also contains a few scattered hawthorn trees.

In the area to the west, occupying the higher ground created by outcropping of bedrock, is a birch-aspen woodland. Bare rock is evident in some spots and the shrubs consist of such species as shadbush, bush honeysuckle, and common honeysuckle. Bracken fern, blueberry, and wintergreen are common.

Many of the plants in the area were used by Indians historically, including bulrushes, reeds, and cattails, which were used to make mats, baskets, and fibers. Arrowhead, yellow pond lily, and bracken served as medicines, and the roots were used for food. Berries were obtained from the haw, wild strawberry, blueberry, wild currant (ribes americanum), and wintergreen. Berries and medicinal beverages were made from shadbush, pin cherry, choke cherry, common elder, blackberry (rubus alleghenensis), and nanny berry (viburnum lentago). In addition, beech and butternut supplied nuts and medicine. Field sumac and alder (alnus rugosa) provided medicinal beverages and dyes. White ash supplied wood for arrows, sleds, and baskets, whereas the bark of the white birch was used in making canoes, dishes, and buckets. Sap for syrup and sugar was collected from the red, sugar, and soft maples; resins for cement and sealers were provided by white pine and tacamahac poplar. Smoking material was obtained from willow bark, sumac, meadowsweet, and the dried flowers of goldenrods and asters.

Burreeds, sedges, and spike rushes are found along the river. Other species include cardinal flower, fringed loosestrife (*steironema ciliatum*), shrubby cinquefoil, Joe-pye weed, boneset, button bush, peppermint, agrimony, water hemlock (*cicuta maculate*), and white and yellow avens (*geum canadense, g. aleppicum*). Common spring species in the area are starry false Solomon seal (*smilacina stellata*), small-flowered crowfoot, bristly crowfoot, silvery cinquefoil, golden ragwort (*senecio aurens*), yellow trout lily, Michigan lily, yellow clover, smooth yellow violet, long-spurred violet, and blue violet (*viola papilionacea*).

The Michigan Natural Features Inventory (MNFI) and the Michigan Department of Natural Resources and Environment (MDNR) categorize and list plant and animal communities that are endangered (E), threatened (T), and probably extirpated, or extinct, (X), according to the Endangered Species Act of the State of Michigan<sup>2</sup>. This list also includes species of special concern (SC), which are likely to become endangered if their population declines. Similarly, the U.S. Fish

<sup>&</sup>lt;sup>2</sup> see Section 36503 of 1994 PA 451, MCL 324.36503 http://www.state.mi.us/orr/emi/admincode.asp?AdminCode=Single&Admin\_Num=29901021&Dpt=NR&RngHigh=

& Wildlife Service lists species that are endangered nationally. In Sanilac County, there are 15 species listed by the state and one that is federally listed, including the *Northern Riffleshell*, which is listed endangered (LE). These species have been identified by MNFI and MDNR scientists within Sanilac County or are believed to live within Sanilac County, given available habitat. These species may or may not actually occur within Sanilac Petroglyphs Historic State Park, but given the available habitat and a portion of the Cass River, it is likely that many do occur there.

### **Natural Features in Sanilac County**

Scientific Name	Common Name	Federal Status	State Status
Adlumia fungosa	Climbing Fumitory		SC
Alasmidonta marginata	Elktoe		SC
Alasmidonta viridis	Slippershell Mussel		SC
Ammocrypta pellucida	Eastern Sand Darter		Т
Ammodramus henslowii	Henslow's Sparrow		Т
Ammodramus savannarum	Grasshopper Sparrow		SC
Bog			
Cistothorus palustris	Marsh Wren		SC
Emys blandingii	Blanding's Turtle		SC
Epioblasma torulosa	Northern Riffleshell	LE	Е
rangiana			
Great Blue Heron Rookery	Great Blue Heron		
	Rookery		
Lampsilis fasciola	Wavy-rayed Lampmussel		T
Obovaria subrotunda	Round Hickorynut		Е
Pleurobema coccineum	Round Pigtoe		SC
Rallus elegans	King Rail		E
Simpsonaias ambigua	Salamander Mussel		E
Spiza americana	Dickcissel		SC
Villosa iris	Rainbow		SC

### <u>FAUNA</u>

The MNFI indicates the potential for several birds and aquatic species to be found at the park, including mussels, turtles, salamanders, as well as sparrows, wrens, and blue herons. In addition to those things found in the MNFI, there is large and small game at the park too. Game consists of all types typical to Southeast Michgan, including deer, rabbits, squirrels, ground birds, and many other small mammals.

### **Historic / Cultural Resources**

### General Cultural Environment

Native Americans, notably Ojibway, are believed to have occupied The Thumb of Michigan throughout the last 1000 years. The site was logged during the 1800s and eventually succumbed to massive forest fires in the 1870s and 1880s. The land was used for agriculture for the next 100 years, until it was purchased by the Michigan Archaeological Society to be preserved for its historical resources.

### Education / Interpretation

The site offers self-guided hikes with interpretive signage, which are sometimes facilitated by interpreters from the DNR. The hikes begin with an account of historical and natural features by park interpreters. Interpretive guides also do routine maintenance such as mowing, staining, and trail pruning.

There are many potential educational and interpretive opportunities. The following table details those resources:

### **Interpretive Resources**

Main petroglyph rock area	Cultural/Historical
Old lumber camp remains/logging history	Features
One time site of <i>Jaytown</i> , general store	
Sawmill site(s)	
Agricultural practices/use of the land	
Initial trees (carved with people's names, dates,	
etc).	
Old fields now in succession	Natural Features
Old apple trees	
Flowing streams	
Floodplain forest	
Sedge marsh	
Dogwood-alder fen	
Hawthorn Savannah	
Hardwood forest	
Old (large) tree species	
Fern fields	
Beaver dams	
Watershed of the area (rivers, etc.)	Geological Features
Glacial history	
Exposed bedrock (Marshall Sandstone)	
Potholes in some exposed bedrock	
Ubly Channel (Glacial Era feature that is not	
visible)	

Source: The Sanilac Petroglyphs State Historic Site Interpretive Plan

### PHYSICAL ENVIRONMENT

There are over 100 carvings by Native Americans on the 20 by 40 foot petroglyph rock, which is believed to be part of a former Native American village. There are carvings on other nearby rock outcrops that were done by workers at a lumber camp during the 1870s.

### **BUILDINGS AND STRUCTURES**

A large pavilion covers the sandstone petroglyphs. There is a 15 foot security fence that surrounds the pavilion to keep out wildlife and vandals. There are no historic buildings on the site. There is said to be a foundation of a cabin belonging to a timber cruiser, Temple Dorr, who purchased land from the government in order to sell it to lumber companies.

### HISTORIC LANDSCAPE

There is at least one old white pine tree that is over 100 years old, a survivor of the great forest fires of the 1800s.

### **VOLUNTEER PROGRAMS**

Grantors have included the Michigan Historical Center Foundation, Charles Stewart Mott Foundation, as well as other private donations. The Thumb Area Boy Scout Troop has donated benches in the park.

More detailed information can be found in *The Sanilac Petroglyphs State Historic Site Interpretive Plan.* This plan was developed in 1993 by consultants for the DoS and the Michigan Historical Museum. It provides an assessment of cultural, natural, and built features and proposes strategies for site management and programming decisions.

### Recreational Resources

Hiking is the only recreation allowed at Sanilac Petroglyphs. There is also a small day-use area that can be used for picnicking. Hunting, trapping, camping, and other recreational opportunities are not permitted there.

### PUBLIC LAND MANAGERS

State Game Areas: Fish Point, Deford, Rush Lake, Sanilac, Vassar, Port Huron, Minden City, Cass City, Murphy Lake, Tuscola, Verona

State Wildlife Areas: Fish Point, Quanicassee, Wildfowl Bay

State Parks: Lakeport, Port Crescent, Sanilac Petroglyphs, Albert E. Sleeper;

Environmental Areas: Fish Point, McKinley, Rose Island, Sebewaing, Thomas, Weale, Bay Port.

### AREAS OF CONFLICT

With multiple interests comes the potential for conflict between users or between users and the natural or historic resources of the park. Areas of conflict at Sanilac Petroglyphs include:

<u>Vandalism</u> - Vandals have defaced the petroglyphs and altered them by adding their own carvings in the soft sandstone.

<u>Illegal Hunting</u> - Adjacent public hunting lands allow easy access to the site for this unauthorized activity.

### Park Use Statistics and Economic Impacts

Although there are not annual counts of the number of visitors, a 1993 interpretive plan states that there were 3500 visitors that year, between Memorial Day and Labor Day. The average number of visitors per day was 15 to 35, with the majority of them coming on the weekends. Sunday is the busiest day. This plan suggests that most of the visitors live more than a 30 minute drive from the site.

The park is small and offers few developed recreational opportunities, drawing visitors who come primarily to view the petroglyphs. Its economic impact should be expected to be quite small. Administration is carried out primarily by staff from Sleeper State Park. During the summer season (Memorial Day through Labor Day), HAL employs interpretive guides, who work collectively about 70 hours per week, or 840-900 hours per season total.

### **PLANNING OVERVIEW**

### Documents:

Stewardship Management Plan (Contact Stewardship)
Michigan Natural Features Inventory (Contact Stewardship)
Sanilac Petroglyph deed (Attached)

#### Meetings:

September 30, 2010	Start-up Meeting
November 3, 2010	Planning Team Meeting
December 16, 2010	PlanningTeam Meeting
January 18, 2011	Stakeholder Input Workshop
March 30, 2011	Public Input Workshop

### Plan Reviews:

April 18, 2012	PRD – Management Team
May 15, 2012	SLP – Ecoteam
June 14, 2012	Michigan State Parks Advisory Committee
June 19, 2012	DNR - Statewide Council

### SCANNED DEED DOCUMENT

£.29.2006 8:07AM

NO.767 P.2/4

STATE OF MICHIGAN
DEPARTMENT OF ATTORNEY GENERAL

LEON S. COHAN
Deputy Attorney General



FRANK J. KELLEY ATTORNEY GENERAL LANSING

June 14, 1971

RECEIVED

JUN 14 1971

HOISIVID EDNA!

Mr. J. D. Stephansky Chief, Lands Division Department of Natural Resources Stevens T. Mason Building Lansing, Michigan

Re: A-6314(b)
Sanilac Petroglyph State Historic Park
Sanilac County
T 14 N, R 12 E, Sec. 11: S 1/2 of NE 1/4
Michigan Archeological Society

Dear Mr. Stephansky:

In accordance with your request of May 20, 1971, we have examined an abstract of title certified by Land Title Dawson Abstract Company to May 12, 1971 at 8:00 a.m., covering the premises described in the caption hereof, and upon which we render the following opinion:

TITLE:

We find marketable title to the premises in caption held by the Michigan Archaeological Society

held by the Michigan Archaeological Society, a

Michigan non-profit corporation.

ENCUMBRANCES: None shown outstanding of record.

EXCEPTIONS:

The premises are subject to the rights of the public in and to any portion thereof deeded, taken or used for street, road or highway purposes (Germania Road appears to traverse a portion of the premises).

MINERAL RIGHTS: None shown outstanding of record.

TAXES:

None shown unpaid.

None.

COMMENTS:

Very truly yours,

Russell E Prins

Assistant Attorney General

REP: ma

LIBER 350 PAGE 124 LICELVED FOR RESCRI

1971 SEP -- 7 AM 11: 16 PER NO. 355 PAGE NO. 224 HANDIGE D. TURNOUT BEALL OF DEEDS SALL STATE OF DEEDS

Recorded o'clock

Register of Deeds

DEED (G) (WITHOUT WARRANTY CLAUSE)

THIS INDENTURE, Made this 22nd day of August in the year of our Lord, one thousand nine hundred and seventy-one

MICHIGAN ARCHAEOLOGICAL SOCIETY, a Michigan non-profit corporation, with principal offices at The Museum, Michigan State University, East Lansing, Michigan 48823 BETWEEN

party of the first part,

STATE OF MICHIGAN, Lansing, Michigan 48926 and

party of the second part,

WITNESSETH, That the said party of the first part, for and in consideration of conveyance of the property as a gift under conditions below recited, and for no other consideration, to it in hand paid by the said party of the second part, the receipt whereof is hereby confessed and acknowledged, has granted, bargained, sold, remised, released, aliened and confirmed, and by these presents does grant, bargain, sell, remise, alien and confirm unto the party of the second part and to its successors and assigns, FOREVER, All that certain pieces or parcels of land, situate, lying and being in the Township of Greenleef, County of Sanilac, State of Michigan, known and doscribed as follows, to wit:

Township Fourteen (14) North, Range Twelve (12) East, Section Eleven (11); (a) South half of Northeast quarter (8½ NE½), and (b) North half of South half (N½ S½)

SUBJECT TO a reservation of all mineral rights and right to drill, explore and remove same, provided however that the party of the second part shall be given the opportunity to review the form of any lease so as to insure the first priority values noted in reasons for making this gift as enumerated herein.

This property is conveyed for use by the public and under the following conditions:

- To preserve the aboriginal petroglyphs and develop said premises for the benefit of mankind from the present to distant future generations as a cultural and educational facility (as distinguished from a sports or recreational facility) for promoting a better appreciation of man's natural and cultural heritage and of his continuing relationship to his environment.
- (2) Except as it may be, both a part of and incidental to a display, a demonstration, or a research project in furtherance of aforasaid purposes, no part of said premises, nor the product thereof, shall be used for private or public economical gain. Entrance or admission foas to the areas may be charged by the Michigan Department of Natural Resources or its successors as deemed necessary.

PREPARED BY T. N. TUCKER LANDS DIVISION DEPARTMENT OF NATURAL RESOURCES

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(3) If the property is not used for the intended purpose by the Michigan Department of Natural Resources, or its successors, within a reasonable time horeafter, or if thereafter it ceases to be so used, then in that event it shall revert to the party of the first part, its successors or assigns.

Except as stated in the preceding four paragraphs, said property is conveyed Together with all and singular the hereditaments and appurtenances thereunto belonging, or in anywise appertaining; and the reversion or reveations, remainder or remainders, rents, issues and profits thereof; and all the estate, right, title, inherest, claim or demand whatsoever, of the said party of the first part, either in Law or Equity, of, in and to the above bargained premises, with the said hereditaments and appurtenances; TO HAVE AND TO HOLD the premises as before described, with the appurtenances, unto the said party of the second part, its successors and assigns, FOREVER. And the said party of the first part, for itself, its executors, and administrators, does covenant, grant, bargain and agree to and with the said party of the second part, its successors and assigns, that it MICHIGAN ANCHROLOGICAL SOCIETY the said party of the first part has not herectofors done, committed or wiftingly or willingly suffered to be done or committed, any act, matter or thing whatsoever, whereby the premises hereby granted, or any part thereof, ie, are or shall, or may be charged or incumbered in title, estate or otherwise howsoever except as to ad valorem taxos.

IN WITNESS WHEREOF, the said party of the first part has hereunto set its hand and seal the day and year first above written.

Signed, Scaled and Delivered In Presence of MICHIGAN ARCHAEOLOGICAL SOCIETY, a Michigan non-profit corporation

Harold W. Thompson

William H. Thatcher

Its President

Donald W. Faster

By Alice C. Noecker

Its Secretary

STATE OF MICHIGAN

County of Ingham

The foregoing instrument was acknowledged before me this 22nd day of

August , 1971, by William H. Thatcher, its President, and

Alice C. Noecker , its Secretary, of the MICHIGAN

ARCHAEOLOGICAL SOCIETY, a Michigan non-profit corporation, on behalf of the corporation.

Notesparable

ichigan

District Judge, 74th Judicial District

of Michigan, Acting in Ingham County.