

# Calvert Orchid Conservation 2023 Annual Report

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The Calvert County Natural Resources Division is partnering with the Smithsonian Environmental Research Center and the North American Orchid Conservation Center (NAOCC) to document orchid species found in Calvert County for the purpose of conserving native orchids found in the U.S. and Canada. Calvert Stewards volunteers will obtain photographs and identify locations of orchids so that trained collectors can collect viable seeds, fruits, leaf samples, and root samples with the aim of conserving North American orchid species. In special situations whole plants will be collected for voucher specimens to be stored in the Botany Department of the National Museum of Natural History in Washington, D.C.

NAOCC activities focus on establishing collections of seeds and orchid mycorrhizal fungi, developing protocols to propagate and restore all native orchid species and developing an interactive website to provide the public with a mechanism to identify and learn everything that is known about our native orchids.

## SKILLS NEEDED

- Ability to work independently
- Ability to identify the common orchid species
- Hike across uneven and overgrown terrain, including off established trails, to get to orchid locations

### Optional, but Preferred, Skills

- Access to a smart phone with iNaturalist app installed (or a digital camera with date and location stamp)

## VOLUNTEER DUTIES

- Explore County-owned property to find and identify orchids
- Map locations accurately on paper maps or through online mapping via iNaturalist. (See attached data sheet)
- Photograph the orchids at the different stages (leaf, flower, and fruit).
- Identify the habitat characteristics of each population.

## REQUIREMENTS & EXPECTATIONS

- Hike independently or in teams
- Maintain confidential and sensitive information about locations of orchids
- Be exposed to ticks, chiggers, mosquitoes, bees/wasps, poison ivy, bad weather, and other wild life

## TRAININGS

- Orientation through a workshop, in-person, or via phone to understand the project.

- Orientation and training on mapping via paper and online.
- On-going opportunities to join scheduled orchid searches

## PROJECT DATES

- **Winter:** Locate species with overwintering leaves such as *Tipularia discolor* (Cranefly Orchid), *Aplectrum hymenale* (Puttyroot) and *Goodyera pubescens* (Downy Rattlesnake Plantain).
- **Spring:** Locate spring flowering species such as *Galearis spectabilis* (Showy Orchid) or *Cypripedium acule* (Pink Lady's Slipper)
- **Summer:** Locate summer flowering species such as the *Platanthera* species
- **Fall:** Compile location maps for all species.
- **Throughout the year:** Collaborate with researchers from the Smithsonian Environmental Research Center and NAOCC on individual locations and collection protocols

## VOLUNTEER RECOGNITION AND APPRECIATION

The efforts of volunteers will be recognized at our volunteer appreciation picnic.

## SUMMARY OF FIELD WORK

There were two major components to the Orchid Conservation Project during the 2023 season. First was a continuation of field work which included both looking for new orchids and checking on previously found orchid sites. Exploratory field work was confined to three public areas: Flag Ponds, Smoky Road, and Keim Forest. Second was the attempt to establish a more workable and expandable program and data collection. This involved attempting to establish contact with individuals who had reported finding orchids in Calvert County.

**Flag Ponds:** Three exploratory visits were made at Flag Ponds. On May 7 a new *Goodyera pubescens* was found on the east side of the Lower North Ridge Trail. *Goodyera pubescens* 1 previously located in 2018 to the north was not found. There were also five new *Galearis spectabilis* found on the west side of the trail. On May 8 the *Aplectrum hyemale* on the Lower North Ridge Trail, which has been monitored for years was seen in both flower and leaf.

On June 7 five sites of *Galearis spectabilis* were found on the new Woodland Trail. Most of these were one or two plants, but there was one site with nine plants clustered along the trail. That makes a total of 26 documented sites of this species scattered around the Park. On July 14, one *Spiranthes vernalis* was found on the land spit that has built up since 2012 near the pier. (A new plant for Flag Ponds.) On August 19 one site consisting of three *Platanthera clavellata* was found in the Woodland Branch floodplain. All three were new plants. Unfortunately, none of the three *P. clavellata* found in 2021 in the immediate area were located. Stiltgrass and other invasive plants were weeded from around the *Spiranthes ovalis* on Duncan Pond Trail on May 15, June 25 and October 1. On the spring inspections there were very few young plants and those were very small and unhealthy. In October there were only 8 plants in flower. It is believed that the lack of flowers was largely due to the heat and the lack of rain in the spring.

**Keim Forest:** Three exploratory visits were made to Keim Forest on April 9, 16, and 26. Eight *Galearis spectabilis* were found, some in flower and others just in leaf. On each visit an unknown plant in leaf was observed. We were not even sure that it was an orchid. Multiple visits were made to observe this plant from April through July. When we returned in August, the plant had disappeared. We have the site well documented with pictures and coordinates. It was noted that Kerry Wixsted found a *Platanthera lacera* in 2010 near Battle Creek south of where the unknown plant was seen.

**Smoky Road (Huntingtown/ Kings Landing NRMA):** Two sites of *Goodyera pubescens* were found on a random hike on the north side of Smoky Road on September 21, one site with only 1 plant, and the second site with a group of 7 plants. .

## Follow-up Visits

**Smoky Road:** A check was also made on the former site of the *Corallorhiza odontorhiza* on Smoky Road. No signs of it were present.

**Biscoe-Gray:** Only one *Aplectrum hyemale* in flower was seen on May 5 where 18 plants in leaf were seen in 2020. None were found only in leaf.

**Anne Marie Gardens:** On June 14 no sign of any *Spiranthes vernalis* where 8 plants were seen in 2022. On June 25 contacted neighbors and gave them information on recognizing plants and whom to contact. It is believed that again the lack of rain and high spring temperatures were factors in the lack of plants.

**Yellow Bank Road:** *Epipactis helleborine* was seen on Yellow Bank Road in July. It was first seen in 2022. It is not documented as it is a non-native orchid.

## FOLLOW-UP TO 2022 RECOMMENDATIONS

As recommended, search visits were made to the above listed public lands. The TNC area at Battle Creek was difficult to assess, but explorations were made along the border between TNC and Keim Forest and up stream on Battle Creek. Regarding oversight and monitoring earlier sites, follow-up and maintenance was done at Flag Ponds on the *Spiranthes ovalis* site as well as the *Spiranthes vernalis* site at Anne Marie. As mentioned above, various sites were checked to account for the viability of sites at Flag Ponds, Biscoe Gray, and Smoky Road.

The utilization of *iNaturalist* has proven to be a vital resource as well as a frustrating challenge. We have attempted to do regular searches of orchids in Calvert County under Explore in *iNaturalist*. It was via such a search that the single *S. vernalis* at Flag Ponds was found. However, because most orchid entries are set as “obscured” we have not been able to locate and systematically document them. We are currently attempting to set up a pattern of communication which will make it possible for us to access obscured sites that have been submitted to Calvert Orchid Conservation. And we will continue to reach out to *iNaturalist* contributors whose orchids have not been submitted to COC.

The brochure work and educational display at Flag Ponds is currently on hold.

## RECOMMENDATIONS FOR 2024

In 2024, we plan to focus on more in-depth trainings on the best practices for documenting the orchids. Due to how common *Tipularia discolor* is throughout the county, we will develop specific protocols for this species.

Schedule at least one training (May 2, 2024) and one field outing (Summer 2024)

Continue to search public areas for new sites of orchids and to search *iNaturalist* findings for additional orchid site listings. This would include follow-up on *iNaturalist* sightings of uncommon orchids not documented from 2023 (i.e, *L. lilifolia* at CCSP {S3} and *S. vernalis* at Flag Ponds). Search *iNaturalist* and COC on a monthly basis to connect with contributors and document new entries.

Continue to collect data for Calvert Orchid Conservation (COC), but add a searchable data base which only includes documented and numbered plant sites (Calvert Orchid Research Project- CORP).

# ATTACHMENT 1: SUMMARY OF FINDINGS OF SPECIES BY SITE FROM 2018 TO 2023

The following is a listing of the distribution of orchids as documented in the Calvert County Orchid Conservation Project. It does not include all the entries from iNaturalist, only those that have been documented and named for this study (i.e., FP-Gp-004 {Flag Ponds- *Goodyera pubescens*- 4th find}). This assures that we have not counted any specie site twice.

## Group 1: Frequently found and widespread

*Tipularia discolor*<sup>1</sup>: ACLT, Biscoe Gray, PF2Bay,, Flag Ponds,, Hall Creek, Smoky Road, Ward Farm, Calvert Cliffs—Dunkirk\*\*, Gatewood\*\*, Hughes Farm\*\* and Kings Landing\*\*<sup>2</sup>

*Galearis spectabilis*: ACLT, PF2Bay, Flag Ponds, Smoky Road, Battle Creek (Keim)<sup>3</sup>

## Group 2: Uncommon

*Cypripedium acaule*: PF2Bay, Hall Creek, Smoky Road, Calvert Cliffs SP<sup>4</sup>

*Aplectrum hyemale*: ACLT, Biscoe Gray, Flag Ponds, Smoky Road<sup>5</sup>

*Goodyera pubescens*: ACLT, Flag Ponds, Smoky Road. Ward Farm

## Group 3: Rarely found

*Corallorhiza odontorhiza*: Calvert Cliffs SP, Smoky Road<sup>6</sup>

*Liparis lilifolia*: Hall Creek

*Neottia bifolia*: Hall Creek, Calvert Cliffs SP

*Platanthera clavellata*: Flag Ponds, Calvert Cliffs SP

*Spiranthes ovalis*: Flag Ponds

*Spiranthes vernalis*: Anne Marie Gardens, Flag Ponds<sup>7</sup>

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<sup>1</sup>After 2021 *Tipularia* was no longer included in the documented survey as it was so abundant.

<sup>2</sup>\*\*Only *Tipularia* has been seen at these 4 parks as of 2023

<sup>3</sup> All of these sites have an abundance of *G. spectabilis* except Smoky Road where only 2 plants have been documented.

<sup>4</sup> Large display of *C. acaule* at Calvert Cliffs. At least 50 plants.

<sup>5</sup> Large display of *A. hyemale* at Biscoe Gray

<sup>6</sup> Site at Smoky Road has not been seen since 2020. One plant at CCSP

<sup>7</sup> No plants seen at Anne Marie in 2023, one plant at Flag Ponds

ATTACHMENT 2: RUNNING SPREADSHEET OF ORCHIDS FOUND FROM  
2018 TO 2023

			Running		2018-2023	
LOCATION	SPECIES:2018 2019 2020 2021 2022 2023	PLANT ID	COORDINATES	DATE	Leaf, Flower, Seed, Number of Plants	Comments
ACLT - American Chestnut Land Trust (ACLTN = north of Parker's Crk; ACLTS = south of Parker's Crk)	<i>Galearis spectabilis</i>	ACLT-Gs-001	N38° 31.001' W76° 31.137'	6/30/2019	leaf	Our first discovery of <i>Galearis</i> at ACLT (Chestnut Trail)
ACLTN	<i>Galearis spectabilis</i>	ACLT-Gs-002	N38° 30.996' W76° 31.139'	6/30/2019	leaf	Our first discovery of <i>Galearis</i> at ACLT (Chestnut Trail)
ACLTN	<i>Goodyera pubescens</i>	ACLT-Gp-001	N38° 33.183' W76° 32.812'	4/20/2018	leaf, 7	Double Oak Rd; co-located with ACLT-Td-1
ACLTN	<i>Goodyera pubescens</i>	ACLT-Gp-002	N38° 33.188' W76° 32.827'	4/20/2018	leaf,4	Double Oak Rd
ACLTN	<i>Goodyera pubescens</i>	ACLT-Gp-003	N38° 33.175' W76° 32.793'	4/20/2018	leaf, several	Double Oak Rd
ACLTN	<i>Goodyera pubescens</i>	ACLT-Gp-004	N38° 33.173' W76° 32.788'	4/20/2018	leaf	Double Oak Rd
ACLTS	<i>Aplectrum hyemale</i>	ACLTS-Ah-001	N38° 30.224' W76° 31.055'	1/6/2019	leaf 3	East Loop Trail
Anne Marie Gardens	<i>Spiranthes vernalis</i>	AM-Sv-001abcd	N38°20.817' W76°27.034'	6/26/2022	Flower	Near John's Creek. 8 plants in 4 sites 4 sets of coordinates
Battle Creek	<i>Galearis spectabilis</i>	BC-Gs-001	N38° 38.018' W76° 35.446'	7/31/2021	1 plant in leaf	Keim Forest near creek base of Tulip tree
Battle Creek	<i>Galearis spectabilis</i>	BC-Gs-002	N38° 30.06' W76° 35.469'	7/31/2021	3 plants +1 in leaf & seed	Keim Forest North of Gs-1
Battle Creek	<i>Galearis specablis</i>	BC-Gs-003	N38°30.054' W76°35.4858'	4/9/2023	leaf 1	Keim Forest Battle Creek floodplain
Battle Creek	<i>Galearis spectabilis</i>	BC-Gs-004	N38°30.0378' W76°35.46'	4/9/2023	leaf 1	Keim Forest Battle Creek floodplain
Battle Creek	<i>Galearis spectabilis</i>	BC-Gs-005	N38°30.006' W76°35.4378'	4/16/2023	Flower 1	Keim Forest Battle Creek floodplain near stream
Battle Creek	<i>Galearis spectabilis</i>	BC-Gs-006	N38°30.06' W76°35.475'	4/16/2023	Flower 1	Near Gs-7. Keim Forest
Battle Creek	<i>Galearis spectabilis</i>	BC-Gs-007	N38°30.06' W76°35.4678'	4/16/2023	Leaf	Near Gs-6 Among Lizard tails Keim Forest
Battle Creek	<i>Galearis spectabilis</i>	BC-Gs-008	N38°30.006' W76°35.4378'	4/26/2023	Leaf	running N-S about 300' near TNC border
Battle Creek	<i>Galearis spectabilis</i>	BC-Gs-009	N38°30.06' W76°35.472'	4/26/2023	Leaf	running N-S about 300' near TNC border
Battle Creek	<i>Galearis spectabilis</i>	BC-Gs-010	N38°30.0042' W76°35.4462'	4/26/2023	Leaf	running N-S about 300' near TNC border
Biscoe Gray	<i>Aplectrum hyemale</i>	BG-Ah-001	N38° 48587' W76° 5863'	#####	68 in leaf	Forest Trail
Calvert Cliffs State Park	<i>Corallorhiza odontorhiza</i>	CC-Co-001	N38°24.279' W76°25.493'	#####	1 in seed	Joint White/ Orange Trail
Calvert Cliffs State Park	<i>Cypripedium acaule</i>	CC-Ca-001	N38°23.649' W76°26.101'	6/24/2022	50+ leaf	Blue Trail
Calvert Cliffs State Park	<i>Neottia bifolia</i>	CC-Nb-001 & 002	W76°25.590' N38°23.749'	6/24/2022	1 at each site in leaf	Red Trail (previously seen 9 plants at site 1 by Rick Smith)

Flag Ponds Nature Park - FP	Aplectrum hyemale	FP-Ah-001	N38° 27.008' W76° 27.642'	3/12/2018	leaf	Lower North Ridge Trail
FP	Aplectrum hyemale	FP-Ah-001	N38° 27.008' W76° 27.642'	5/8/2023	Flower, leaf	Revisit of one plant
FP	Goodyera pubescens	FP-Gp-001	N38° 27.166' W76° 27.771'	8/5/2018	leaf	Lower North Ridge Trail
FP	Goodyera pubescens	FP-Gp-002	N38°27.112998 W76°27.744	5/7/2023	Leaf	East side of Lower North Ridge Trail
FP	Galearis spectabilis	FP-Gs-001	N38° 26.691' W76° 27.326'	4/28/2019	leaf	South Ridge Trail
FP	Galearis spectabilis	FP-Gs-002	N38° 26.690' W76° 27.357'	4/28/2019	leaf	South Ridge Trail
FP	Galearis spectabilis	FP-Gs-003	N38° 26.681' W76° 27.381'	4/28/2019	leaf	South Ridge Trail
FP	Galearis spectabilis	FP-Gs-004	W	4/28/2019	leaf	South Ridge Trail
FP	Galearis spectabilis	FP-Gs-005	N38° 26.680' W76° 27.418'	4/28/2019	leaf	South Ridge Trail
FP	Galearis spectabilis	FP-Gs-006	N38° 26.673' W76° 27.443'	4/28/2019	leaf	South Ridge Trail
FP	Galearis spectabilis	FP-Gs-007	N38° 26.670' W76° 27.451'	4/28/2019	leaf	South Ridge Trail
FP	Galearis spectabilis	FP-Gs-008	N38° 26.665' W76° 27.581'	4/28/2019	leaf	South Ridge Trail
FP	Galearis spectabilis	FP-Gs-009	N38° 26.667' W76° 27.585'	4/28/2019	leaf	South Ridge Trail
FP	Galearis spectabilis	FP-Gs-010	N38° 26.676' W76° 27.592'	4/28/2019	leaf	South Ridge Trail
FP	Galearis spectabilis	FP-Gs-011	N38° 26.670' W76° 27.587'	4/28/2019	leaf	South Ridge Trail
FP	Galearis spectabilis	FP-Gs-012	N38° 27.045' W76° 27.684'	5/17/2019	leaf	plants to the south, but still west of the trail
FP	Galearis spectabilis	FP-Gs-013	N38° 27.041' W76° 27.684'	5/17/2019	leaf	plants to the south, but still west of the trail
FP	Gallearis spectabilis	FP-Gs-014	N38° 26.684' W76° 27.440'	4/29/2022	Flower	Off trail base of cliff
FP	Galearis spectabilis	FP-Gs-015	N38°26.800' W76°410	4/29/2022	Flower	Off trail at base of cliff near swamp
FP	Galearis spectabilis	FP-Gs-016-021	N38°27.06199' W76°27.08999	4/7/2023	Flower, leaf	Lower North Ridge Trail. 021 northern extent.
FP	Galearis spectabilis	FP-Gs-022	N38°26.85099' W76°27.70998'	6/7/2023	Leaf	5 plants in 4'X4' area Woodland Trail
FP	Galearis spectabilis	FP-Gs-023	N38°27.06099' W76°27.963'	6/7/2023	Leaf 1	East side of Woodland Trail
FP	Galearis spectabilis	FP-Gs-024	N38°27.099' W76°27.93199'	6/7/2023	leaf 1	West side of Woodland Trail
FP	Galearis spectabilis	FP-Gs-025-025a	N38°27.08799' W76°28.035' to	6/7/2023	leaf 9+	continue to point 25a on north side of Woodland Trail. A few plants on
FP	Galearis spectabilis	FP-Gs-026	N38°27.09099' W76°27.81996'	6/7/2023	leaf 1	West side of Upper North Ridge Trail
FP	Platanthera clavellata	FP-Pc-001	N38° 27.241' W76° 28.159'	10/6/2018	seed 3	Floodplain
FP	Platanthera clavellata	FP-Pc-002	N38° 27.155' W76° 28.215'	10/6/2018	leaf 4, seed 1	Floodplain

FP	Platanthera clavellata	FP-Pc-003	N38° 27.241' W76° 28.159'	7/24/2019	leaf	Floodplain
FP	Platanthera clavellata	FP-Pc-004	N38° 27.184' W76° 28.201'	7/24/2019	leaf	Floodplain
FP	Platanthera clavellata	FP-Pc-005	N38°26.758' W76°27.989'	5/18-19/22	Leaf	Western section of Woodland Branch
FP	Platanthera clavellata	FP-Pc-006	N38°26.761' W76°27.993'	5/19/2022	Leaf	Western section of Woodland Branch 10+ plants
FP	Platanthera clavellata	FP-Pc-007abc	N38°26.754' W76°27.99799'	8/19/2023	Leaf, seed	but these not seen. Woodland Branch floodplain 3 plants
FP	Spiranthes ovalis	FP-So-001	N38° 26.969' W76° 27.511'	10/6/2018	Flower 2	in iNaturalist, but in MD Plant Atlas; not found in 2019 (probably destroyed)
FP	Spiranthes ovalis	FP-So-002	N38° 26.974' W76° 27.510'	9/21/2019	Flower	Original 2018 finding next to Duncan Pond Trail
FP	Spiranthes ovalis	FP-So	Same site extended	10/24/20 to 11/09/20	Flower, leaf	3 groupings with a total of 25 -30 plants, marked with 8" nails
FP	Spiranthes ovals	Fp-So	Same site	10/1/2023	Flower 8	Probably impacted by dry spring and heat
FP	Spiranthes vernalis	FP-Sv-001	N38°26.72778' W76°27.22782'	7/14/2023	Flower-1	Sand spit formed after 2013 south side of old boardwalk beyond pier
HC -Hall's Creek NRMA	Cypripedium acaule	HC-Ca-001	N38° 42.397' W76° 41.561'	5/6/2018, 4/25/19	8 flower groups, each with 1-3 plants. 10 to 20 flowers	Ca-1, Ca-2, Ca-3 are grouped together on iNaturalist. In dying V. pine area. 4/25/19 in bud (white)
HC	Cypripedium acaule	HC-Ca-002	N38° 42.397' W76° 41.563'	5/6/2018 4/25/19	8 flower groups, each with 1-3 plants. 10 to 20 flowers	Ca-1, Ca-2, Ca-3 are grouped together on iNaturalist. In dying V. pine area.
HC	Cypripedium acaule	HC-Ca-003	N38° 42.396' W76° 41.559'	5/6/2018 4/25/19	8 flower groups, each with 1-3 plants. 10 to 20 flowers	Ca-1, Ca-2, Ca-3 are grouped together on iNaturalist. In dying V. pine area.
HC -Hall's Creek NRMA	Cypripedium acaule	HC-Ca-1-3	3 sites above	#####	No plants seen	Dead pines that had fallen were cut and stacked on area where orchids were growing
HC	Cypripedium acaule	HC-Ca-004	N38° 42.326' W76° 41.564'	5/6/2018	leaf 2	Main Trail to River
HC	Goodyera pubescens	HC-Gp-001	N38° 41.802' W76° 41.307'	3/18/2018	leaf	Off Trail in Hunting Area with Lycopodium
HC	Goodyera pubescens	HC-Gp-002	N38° 41.734' W76° 41.245'	3/18/2018	leaf > 50	On trail in hunting area with Lycopodium . Includes Gp-3 through Gp-7 on iNaturalist.
HC	Goodyera pubescens	HC-Gp-003	N38° 41.714' W76° 41.245'	3/18/2018	leaf	On trail in hunting area with Lycopodium . Includes Gp-3 through Gp-7 on iNaturalist.
HC	Goodyera pubescens	HC-Gp-004	N38° 41.714' W76° 41.251'	3/18/2018	leaf	On trail in hunting area with Lycopodium . Includes Gp-3 through Gp-7 on iNaturalist.
HC	Goodyera pubescens	HC-Gp-005	N38° 41.714' W76° 41.240'	3/18/2018	leaf	On trail in hunting area with Lycopodium . Includes Gp-3 through Gp-7 on iNaturalist.
HC	Goodyera pubescens	HC-Gp-006	N38° 41.704' W76° 41.234'	3/18/2018	leaf	On trail in hunting area with Lycopodium . Includes Gp-3 through Gp-7 on iNaturalist.



HC	Goodyera pubescens	HC-Gp-007	N38° 41.704' W76° 41.238'	8/22/2018	leaf	On trail in training area with Lycopodium . Includes Gp-3 through Gp-7 on iNaturalist.
HC	Goodyera pubescens	HC-Gp-008	N38° 41.696' W76° 41.230'	3/18/2018	leaf	Southern limit of Gp group.
HC	Liparis lilifolia	HC-LI-001	N38° 41.805' W76° 41.246'	5/6/2019	leaf, bud	East side at edge of trail at top of berm. Additional plants at edge of trail about 5 ft south.
HC	Liparis lilifolia	HC-LI-002	N38° 41.806' W76° 41.243'	5/6/2019	leaf, bud	19 ft east of trail at top of berm
HC	Liparis lilifolia	HC-LI-003	N38° 41.809' W76° 41.235'	5/6/2019	leaf, bud, flower	60 ft East of trail along top of berm, with 8 other locations extending westward to HC-LI-1.
HC	Neottia bifolia	HC-Nb-001	N38° 42.055998' W76° 41.547'	4/12/2020	Flower, leaf	50 plants scattered over 40'X40' floodplain
PF2Bay - Prince Frederick to Bay Trail	Cypripedium acaule	PF2B-Ca-001	N38° 32.801' W76° 32.918'	6/8/2018	leaf, seed	East of gate near Power line; 1 plant on north side of Trail
PF2Bay	Cypripedium acaule	PF2B-Ca-002	N38° 32.809' W76° 32.914'	6/8/2018	leaf, seed	East of gate near Power line; 2 plants on south side of Trail
PF2Bay	Galearis spectabilis	PF2B-Gs-001	N38° 32.665' W76° 32.568'	6/8/2018	leaf, seed 4	On trail and down slope
PF2Bay	Galearis spectabilis	PF2B-Gs-002	N38° 32.661' W76° 32.569'	6/8/2018		multiple plants - includes photos labeled Gs-2 to Gs-6; approx. 10' S of PF2B-Gs-1
PF2Bay	Galearis spectabilis	PF2B-Gs-007	N38° 32.684' W76° 32.630'	6/8/2018	Leaf 15, stem 1	
PF2Bay	Galearis spectabilis	PF2B-Gs-008	N38° 32.724' W76° 32.717'	6/8/2018	Leaf	10 plants in vicinity. Photos labeled Gs-8 to Gs-12
PF2Bay	Galearis spectabilis	PF2B-Gs-013	N38° 32.733' W76° 32.722'	6/8/2018	Single Leaf	No data
SR - Huntingtown NRMA (Smoky Road)	Aplectrum hyemale	SR-Ah-001	N38° 38.541' W76° 39.774'	5/5/2018, 5/14/2019, 9/24/20	flower No seeds, leaves or stalks seen	to see if plants survived after road work. 11/3/22 About 10 leaves seen
SR	Corallorhiza odontorhiza	SR-Co-001	N38° 38.560' W76° 39.460'	10/3/2018	2 clumps with 15 stems and 4 flowers and 4 stems and 2 flowers	Bill Hubick found. Does not want location public. Found in roadside ditch.
SR	Corallorhiza odontorhiza	SR-Co-002	N38° 38.560' W76° 39.460'	10/1/19	2 clumps	Revisit on 10/1/19 to verify plant survival
SR	Corallorhiza odontorhiza	SR-Co 1-2	See above sites	9/24/2020	2 clumps	Revisit to see if plants survived. Small plants in bloom
SR	Corallorhiza odontorhiza	SR-Co 1-2	See above sites	11/3/22	0	No plants seen.
SR	Cypripedium acaule	SR-Ca-001	N38° 38.606' W76° 39.683'	6/4/2018	plants 3, stem 1	Side of Road; same location as SR-Gp-2
SR	Cypripedium acaule	SR-Ca-002	N38° 37.987' W76° 39.171'	5/26/2021	6+ plants	South edge of East Dog Training
SR	Galearis spectabilis	SR-Gs-001	N38° 38.765' W76° 39.371'	7/4/2021	1 plant in leaf	North East washed area
SR	Galearis spectabilis	SR-Gs-002	N38° 38.689' W76° 39.768'	9/10/2021	5 plants & 5 10' upstream	North Central in ravine
SR	Goodyera pubescens	SR-Gp-001	N38° 38.460' W76° 39.745'	6/4/2018	leaf 1, seed 1	Off trail. SE end of several occurrences extending NW beyond SR-Gp-4.

SR	Goodyera pubescens	SR-Gp-002	N38° 38.606' W76° 39.683'	6/4/2018	leaf 5; 7-29-18 flowers 2	Off trail; same location as SR-Ca-1.
SR	Goodyera pubescens	SR-Gp-003	N38° 38.512' W76° 39.643'	7/29/2018	leaf 13	Off trail on upper W slope of stream bank
SR	Goodyera pubescens	SR-Gp-004	N38° 38.467' W76° 39.758'	7/29/2018	leaf 18+; 1 old flower stalk	Off trail. Many groups along old trail to NW and SE to SR-Gp-1
SR	Goodyera pubescens	SR-Gp-005	N38° 38.489' W76° 39.761'	7/29/2018	leaf	Off trail; 2 groups.
SR	Goodyera pubescens	SR-Gp-006	N38° 38.494' W76° 39.767'	7/29/2018	leaf	Off trail; 2 plants.
SR	Goodyera pubescens	SR-Gp-007	N38° 38.552' W76° 39.433'	7/29/2018	Flower 3	Near gate on bank; 3 ft west of SR-Td-9
SR	Goodyera pubescens	SR-Gp-008	N38° 38.509' W76° 39.779'	7/30/2018	leaf 4	Off trail
SR	Goodyera pubescens	SR-Gp-009	N38° 38.568' W76° 39.457'	10/3/2018	leaf, stem	Off trail near stream
SR	Goodyera pubescens	SR-Gp-010	N38° 38.904' W76° 39.403'	6/17/2021	1 plant Leaf & bud	North East on trail under log
SR	Goodyera pubescens	SR-Gp-011	N38° 38.871' W76° 39.433'	6/17/2021	8 plants Leaf & bud	North East on deer trail with Lycopodium
SR	Goodyera pubescens	SR-Gp-012	N38° 38.871' W76° 39.433'	7/4/2021	Several plants Leaf & bud	North East on deer trail with Lycopodium between River Birch
SR	Goodyear pubescens	SR-Gp-013	N38° 38.717' W76° 39.472'	9/21/2023	Leaf	Unmarked trail on north side of Smoky Road
SR	Goodyear pubescens	SR-Gp-014	N38° 38.731' W76° 39.593'	9/21/2023	Leaf	7 small plants on unmarked trail north side of Smoky Road
WF - Woodburn Recreational and Nature Park	Goodyera pubescens	WF-GP-001	N38° 42.919' W76° 38.857'	3/28/2018	leaf	SW corner of park
WF	Goodyera pubescens	WF-Gp-002	N38° 42.933' W76° 38.822'	3/29/2018	leaf 4	Intersection of 3 trails
WF	Goodyera pubescens	WF-Gp-003	N38° 43.043' W76° 38.295'	6/10/2018	leaf	Abandoned trail
YB - Yellow Bank Rd (back road to the Burtons)	Galearis spectabilis	YB-Gs-001	N38° 43.897' W76° 40.275'	2/30/18	3 clusters of 3 to 7 plants Flower	Private gravel road off Yellow Bank
YB	Galearis spectabilis	YB-Gs-002	N38° 43.933' W76° 40.375'	4/30/2018	3 plants in 1 cluster Flower	Private gravel road off Yellow Bank
YB	Galearis spectabilis	YB-Gs-003a	N38° 43.906' W76° 40.286'	5/4/2018	2 clusters bloom beginning	Private gravel road off Yellow Bank
YB	Galearis spectabilis	YB-Gs-003b	N38° 43.907' W76° 40.286'	5/4/2018	Same as Gp-3a	Private gravel road off Yellow Bank
YB	Epipactis helleborine	YB-Eh-001		6/21/2022	1 plant in flower	Non native.

## ATTACHMENT 3: ORCHID OBSERVATIONS FROM INATURALIST

See separate CSV spreadsheet

<https://www.calvertparks.org/resources/Documents/Volunteer/2023Reports/2023Orchid-Conservation-Attachment3.csv>

*Supporting Calvert County's nature parks and natural spaces*



# CALVERT STEWARDS

## VOLUNTEER PROGRAM

*A partnership between Calvert Nature Society and Calvert County Natural Resources Division*

# 2023 Annual Report

Date of Issue March 2024

CALVERT STEWARDS VOLUNTEER PROGRAM  
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Calvert Nature Society: [www.calvertparks.org](http://www.calvertparks.org)

Calvert County Natural Resources Division:  
[www.calvertcountymd.gov/NaturalResources](http://www.calvertcountymd.gov/NaturalResources)

