



Operations & Planning Committee Meeting

OJRSA Operations & Administration Building

Lamar Bailes Board Room

September 17, 2026 at 8:30 AM

OJRSA commission and committee meetings may be attended in person at the address listed above. The OJRSA will also broadcast meetings live on its YouTube channel at www.youtube.com/@OconeeJRSA (if there is a technical issue preventing the livestreaming of the meeting, then a recording will be published on the channel as soon as possible). For those not able to attend in person, then the OJRSA Board or Committee Chair will accept public comments by mail (623 Return Church Rd, Seneca, SC 29678) or at info@ojrsa.org. Comments must comply with the public session instructions as stated on the meeting agenda and will be received up until one hour prior to the scheduled meeting. If there is not a public session scheduled for a meeting, then comments shall not be accepted.

Agenda

- A. Call to Order** – Scott Moulder, Committee Chair
- B. Public Session** – Members of the public intending to speak must register with their name and address prior to participating. This session is for comments related to topics on this agenda and is limited to a maximum of 30 minutes total, with each speaker allotted no more than 5 minutes.
- C. Presentation and Discussion Items** *[May include vote and/or action on matters brought up for discussion]*
 - 1. Update on current projects (Exhibit A) – Chris Eleazer, Director and Kyle Lindsay, Operations Director
 - 2. Consider acceptance of additional flow at Davis Creek Road pump stations to serve Core Transformers project – Chris Eleazer, Director
 - 3. Receive and discuss BLE Odor Investigation Report in response to complaints received from Cross Creek Plantation (Exhibit B) – Chris Eleazer, Director and Kyle Lindsay, Operations Director
- D. Action Items to Recommend to the Board for Consideration**
 - None
- E. Executive Director's Discussion and Compliance Matters** – Chris Eleazer, Director
 - 1. Environmental and regulatory compliance matters
 - 2. Miscellaneous *(if any)*
- F. Committee Members' Discussion** – Led by Scott Moulder, Committee Chair
Discussion can be related to matters addressed in this meeting or for future consideration by the Board or Committee. Voting is not permitted during this session.
- G. Adjourn**

Upcoming Meetings

All meetings to be held in the Lamar Bailes Board Room unless noted otherwise.

- Finance & Administration Committee – September 22, 2026 at 9:00 AM
- Board of Commissioners – October 5, 2026 at 4:00 PM
- Reconstitution Committee and Executive Committee – October 8, 2026 at 9:00 AM
- Operations & Planning Committee – October 15, 2026 at 8:30 AM

Row #	FY 2027 O&M Project (Proj Mgr) CANNOT CARRY OVER TO NEXT FISCAL YEAR WITHOUT BUDGET APPROVAL	Approx % Complete	Anticipated Completion	PO/Contract Amount (\$)	O&M PROJECT MILESTONES					Budget Remaining (\$)	GL Code (XXXXX = get from Office Mgr)
					Bids/Rfq/etc. Issue/Advertised	Req/Contract Signed	Started Work	Completed	Obligated/ Spent (\$)		
1	Consent Order 21-025-W Project: Biannual Compliance Report (CE)	0%	Due each 5/11 and 11/10	N/A or TBD	Internal Project	Internal Project	N/A		0	0	N/A
2	Agency Reconstitution (Sewer Feasibility Implementation) (Board, Others)	N/A	TBD	N/A or TBD	N/A	N/A	7/15/2025		0	0	N/A
3	Completion of Development Guide (AM)	20%	6/30/2027	N/A or TBD	Internal Project	Internal Project	9/10/2024		0	0	N/A
4	Development Policy Revision (CE)	91%	10/6/2025	N/A or TBD	Internal Project	Internal Project	9/24/2024		0	0	N/A
5	NPDES Aluminum and Mercury Sampling Plan Development and Implementation (JM, KL)	95%	7/31/2026 Waiting on SCDES	27,855	Prof Svcs	NPDES: 8/22/22 PAA: 8/1/22	NPDES: 7/1/22 PAA: 8/2/22	NPDES: 10/31/25 PAA: 10/28/25	20,500	7,355	WRF: Prof Svcs 701-02430
6	Project #2026-08 Final Clarifier #3 Rehabilitation/ Repair (KL, JM)	10%	6/30/2026 1/8/2027	630,920	Equip: 11/7/2025 Install: 2/6/2026	Equip: 12/1/2025 Install: 4/10/2026	8/25/2026		374,017	256,903	WRF: R&M 701-03000
7	Project #2026-01 & #2027-01 CMMS/Permitting & Financial Software System Upgrade (CE)	12%	6/30/2026	111,500	CMMS: 7/3/2025 Fin: 6/8/2026	CMMS: 12/1/2025 Fin: 9/9/2026	CMMS: 1/9/2026 Fin: _____	CMMS: 6/30/2026 Fin: _____	41,733	69,767	Admin Services 501-02420
8	Project #2027-03 Pump Station Equipment Installation Projects (EP, KL)	1%	6/12/2027	N/A or TBD	7/28/2026				0	0	Con Sys: R&M Two PSs 601-05XXX
9	Project #2027-04 CMOM Year 5 CCTV (KL, MM)	1%	3/31/2027	N/A or TBD	7/9/2026				0	0	Con Sys: Prof Svcs 601-02430
10	Project #2027-05 Martin Creek Force Main Assessment Due to Breaks (KL, JW)	1%	5/31/2027	N/A or TBD	Prof Svcs	N/A	N/A	N/A	0	0	Con Sys: R&M COS-PS 601-05030
11	Project #2027-06 Repair/Replacement of Solids and Metal Building Roofs and Exteriors (JM, KL)	3%	5/31/2027	15,750	Design: Prof Svcs Const: EST 12/2/2026	Design: 8/12/2026 Const: EST 1/11/2027	Design: 8/12/2026 Const: _____	Design: _____ Const: _____	0	15,750	WRF: Bldgs & Grounds 701-02550
12	Flow Monitoring Stations Ventilation Improvements (All Stations) (EP)	5%	12/31/2026	37,380	8/31/2026				0	37,380	Con Sys: FMS (various) 601-040XX
13	Flow Monitor Station Flow Meter Upgrade (EP)	5%	12/31/2026	N/A or TBD	Sole Source				0	0	Con Sys: Miller FMS 601-04020
14	Martin PS Motor Base Restraint System (#3 of 3) (EP)	10%	3/31/2027	N/A or TBD	Sole Source				0	0	Conv Sys R&M: MAS2-PS 601-05100
15	PAA Bulk Tank and Creation of Standard Operating Procedures for Operation (KL, JM)	30%	12/31/2026	8,200	Prof Svcs	7/23/2026	7/23/2026	SOP: 8/6/2026 Tank: _____	850	7,350	WRF: R&M 701-03000
16	Seneca Creek FM Replacement Construction Administration / Inspect (#2023-05; CE)	99%	SUB: 1/29/26 FIN: 2/28/26	140,000	RFB #2023-05	4/29/2024	2/3/2025		122,000	18,000	O&M CIP: Con Sys 1401-06071
17	Digester/Sludge Holding Tank Odor Control Equipment Installation (JM)	5%	10/1/2026	N/A or TBD	Sole Source				0	0	WRF: Rolling Stock 701-02590
18		0%		N/A or TBD					0	0	
TOTAL AWARDED				971,605	TOTAL FUNDS OBLIGATED/ACTUAL TO DATE:				559,100	412,505	REMAINING

Row #	FY 2027 O&M Project <i>(Proj Mgr)</i> CANNOT CARRY OVER TO NEXT FISCAL YEAR WITHOUT BUDGET APPROVAL	Comp. Performing (and Project Mgr)	Notes
1	Consent Order 21-025-W Project: Biannual Compliance Report <i>(CE)</i>	OJRSA Chris Eleazer	DUE TO SCDES EVERY SIX MONTHS. Reports submitted: 11/14/21, 5/9/22, 11/10/22, 5/9/23, 11/9/23, 5/10/24, 11/8/24, 5/9/24. 11/7: Submitted to SCDES via ePermitting portal. Next report due 5/10/2026.
2	Agency Reconstitution (Sewer Feasibility Implementation) <i>(Board, Others)</i>	Board of Commissioners	See "Agency Reconstitution" sheet to track progress.
3	Completion of Development Guide <i>(AM)</i>	OJRSA Chris Eleazer	8/5: A McCullough reviewing approx 15 dates. 8/13: Have received 22 draft documents from AM for consideration. 2/17/2025: Provided documents to K Amidon. 3/13: J Boyd providing updates. A McCullough now to review. 4/21: CE has several to review before passing back to B&M.
4	Development Policy Revision <i>(CE)</i>	OJRSA Chris Eleazer	2/5: Met with J Gillespie. Update sent to AM. 2/10: AM sent draft back, then it was forwarded to J Gillespie for indepth review. 4/7: J Gillespie to finish review around week of 4/20. 8/19: J Wilson met with J Gillespie to review. 9/10: Received updated draft from Harlie Wdowiak for review.
5	NPDES Aluminum and Mercury Sampling Plan Development and Implementation <i>(JM, KL)</i>	Goldie Assoc S Harrison	7/29: Submitted Al and Hg assessment plans via ePermitting. OJRSA will have to submit annual reports to SCDES and include sampling. S Harrison is working on the sampling plans for coming year. OJRSA will work to assign Al allocation to septic waste with pretreatment program. It will lead to Al limits to some industries.
6	Project #2026-08 Final Clarifier #3 Rehabilitation/ Repair <i>(KL, JM)</i>	Harper GC Randall Smith	Carryover from FY 2026. 6/16: Plans have been approved. Harper will demo "blue tank" and FC #3 the same day. 6/29: Updated ship date is now 11/30/2026. Project will extend to FY 2027. 8/6: Demo to begin in late August. 8/25: Demo occurred. Waiting on equipment.
7	Project #2026-01 & #2027-01 CMMS/Permitting & Financial Software System Upgrade <i>(CE)</i>	KCI Trent Park	5/18: Staff started testing CMMS. Tablets for field use started arriving. 7/1: CMMS is now live. This phase is complete. Remaining project is for financial system. Submittals due 7/22. 8/3: Conducting demos this week with 3 vendors. 9/9: Selected Concourse Tech for financial system.
8	Project #2027-03 Pump Station Equipment Installation Projects <i>(EP, KL)</i>	TBD	Project includes Coneross Pump Station Pumps and Valves Replacement and Perkins Creek Pump Station Pumps and Valves Replacement. Bids due 9/15. 8/11: Eight companies attended mandatory pre-bid mtg. 9/15: Bids received. All over budgeted amount. Staff considering modifying scope and rebidding.
9	Project #2027-04 CMOM Year 5 CCTV <i>(KL, MM)</i>	Secure Sewer & Svc Michael Bevelle	7/9: Advertised. Contract expiration in RFB 3/31/2027. Bids due 8/26. 7/22: Mandatory pre-bid meeting held. 12 companies attended. 8/26: Received 5 bids, which will be reviewed for completeness. 9/14: Board approved for Secure Sewer & Service to do work. Sent agreement to them the following day.
10	Project #2027-05 Martin Creek Force Main Assessment Due to Breaks <i>(KL, JW)</i>	Ardurra Andrew Shealy	8/10: Spoke with J Brashears to schedule kickoff. Mtg set for 8/25. 8/25: Met with J Brashears and Andrew Shealy to discuss project. Waiting on proposal.
11	Project #2027-06 Repair/Replacement of Solids and Metal Building Roofs and Exteriors <i>(JM, KL)</i>	BEE Group Codie Goff	8/6: K Lindsay to contact C Goff to schedule. Also waiting on B Kelley to complete review of draft AIA 2017 contract. 8/12: B Kelley approved agreement. Returned executed doc to BEE Group for \$15,750. Waiting for schedule. 8/26: Received prelim schedule. 9/9: Field work to begin next week.
12	Flow Monitoring Stations Ventilation Improvements (All Stations) <i>(EP)</i>	Greenstone Brian Doane	8/6/2026: To be advertised very soon. Design was completed last year. 8/21: Quotes due today. 8/31: Approved bids. 9/15: Materials have been ordered.
13	Flow Monitor Station Flow Meter Upgrade <i>(EP)</i>	Clearwater Sean Henderson	8/6/2026: To be ordered soon. 8/21: Meter has been ordered. 8/27: Meter arrived. 9/15: Waiting for Clearwater to schedule.
14	Martin PS Motor Base Restraint System (#3 of 3) <i>(EP)</i>	OJRSA Maint Dept	4/21/2026: Replaced seal on pump within last 6 months, will install FY 2026 unit once seal needs replacement. We will self-perform installation of base. WORK TO BE PERFORMED ONCE SEAL NEEDS REPLACING. 8/6: E Partain has requested update of last year's quote. 9/15: Ordered.
15	PAA Bulk Tank and Creation of Standard Operating Procedures for Operation <i>(KL, JM)</i>	Goldie Assoc Paul Lewis	Can receive bulk deliveries of 15% PAA, so OJRSA is seeking to modify the SCDES Construction Permit to allow for bulk storage tank. 9/15: P Lewis expects plans to be ready in 2 weeks. John Thorne has performed training for PAA SOPs.
16	Seneca Creek FM Replacement Construction Administration / Inspect (#2023-05; CE)	GMC Chris White	8/7: Received exhibit, then sent draft agreement to B Little for review. 8/20: Legal review of agreement b/t OJRSA and Fount Resid attorneys. 9/11: Waiting on B Little to review agreement.
17	Digester/Sludge Holding Tank Odor Control Equipment Installation <i>(JM)</i>	EcoSorb Kevin Butler	8/21: Received final installation plans from EcoSorb. EcoSorb 1200 unit is onsite waiting for installation of pipe, which OJRSA staff will perform. Waiting on quotes for pipe. 8/24: Final odor study report received from BLE. 8/31: Pipe has been ordered. 9/15: All material on site, hope to have pipe installed by 9/18.
18			

Row #	Agency Reconstitution Tasks as Stated in the OJRSA Reorganization Recommendations Accepted by OJRSA Board on July 15, 2025	Target Date^ (Time Following Acceptance)	Approx % Complete	Task Manager	Started	Completed	Notes
1	Current Board will dissolve the current Ad Hoc Committee and establish the Implementation Committee (“Reconstitution Committee”) for further implementation oversight.	8/29/2025 (45 days)	100%	OJRSA Board	7/15/2025	8/4/2025	7/15/2025: Current committee dissolved during called board meeting. 8/4: New Committee established. Includes: A Brock (County), K Bronson (Westminster), C Eleazer (OJRSA), S Moulder (Seneca), C Myers (Walhalla), C Bentley (ACOG), A Mettlen, K Amidon, J Jones, L Flynn. COMPLETE .
2	Adopt the timeline and accept the dates are targets that the committee will try to maintain progress towards, acknowledging that things may come up and require adjustments.	N/A	100%	Committee	8/14/2025	8/14/2025	8/14/2025: The acceptance of timeline was a committee-led decision. COMPLETE .
3	Legislative revisions to the Joint Authority Water and Sewer Systems Act (“Act”) will be finalized and provided to the Oconee County Delegation. Consultation shall be made with the Delegation on whether lobbyist support will be needed.	8/29/2025 (45 days)	100%	Committee	9/22/2025	1/20/2026	1/13/2026: L Flynn working with staff attorney at SC Senate on language. 1/20: Bill introduced by Sen. Alexander. Bill number is S829. 3/10: Approved by full Judiciary Committee. 3/19: Unanimous approval by full Senate. Moves to House. 5/6: Received favorable report out of House Judiciary Committee. 5/13: Received approval by full House. Moves to governor's desk or becomes law within 5 days. 5/18: Governor McMaster signed S829 into law.
4	Reconstitution Committee will provide <u>quarterly updates</u> to the SCRIA, the current Board, and Oconee County on the progress of the implementation of the initial recommendations.	9/30/2025 (quarterly)	100%	OJRSA Staff Member per 8/14/2025 vote	10/9/2025	Report #4: 7/28/2026	DUE TO SCRIA EVERY THREE MONTHS. Reports submitted: 10/13/2025, 1/23/2026, 4/10/2026, and 7/28/2026. Next report due around 10/14/2026.
5	Resolutions of support for consolidation/OJRSA reorganization will be provided to and adopted by each governing body affected by the recommendation, including: OJRSA, Seneca, Walhalla, Westminster, West Union, & Oconee County.	10/13/2025 (90 days)	100%	Officials of OJRSA, Cities/Town, & County	8/21/2025	3/3/2026	8/26/2025: Seneca council approved. 9/8: OJRSA Board approved. 9/9: Westminster council approved. 9/8: West Union considered but decided they need more info. 9/11: C Myers mentioned Walhalla to consider next week and A Brock stated Oconee County to consider in October. 9/16: Walhalla approved. County and West Union still remaining. 10/6: A Brock said it will be on 10/21 agenda. Wanted to keep 10/7 agenda a little lighter since both she and Council Chair Durham were both off that day. 12/11: Mayor Oliver stated she has signed and will deliver soon. 1/16/2025: Received signed copy from West Union. 2/12: G Hart said it will be on county agenda for next week's meeting. 3/3: Oconee County approved.
6	Consultants shall be engaged and the process of a collection system <u>technical evaluation</u> and <u>financial valuation</u> will be initiated, including the identification of potential funding for effort and immediate rehabilitation projects that may be identified or current CIP. Additionally, a <u>rate consultant</u> will be engaged.	11/12/2025 (120 days)	100%	OJRSA, Cities/Town, & County	11/13/2025	3/2/2026	10/9/2025: No updates submitted to facilitators. Additional request to send A Mettlen updates by next meeting (11/13). 11/13: Considered scopes and how to pay for studies during meeting. 12/11: Facilitators presented draft considerations. 2/12/2026: Scope and task oorders for Raftelis and First Tryon presented to committee. Approved to send to OJRSA Board. 3/2: OJRSA Board approved execution and funding mechanism using base percentage plus pro rata. COMPLETE .
7	Communication plan to be developed under the guidance of the Reconstitution Committee and provided to all entities involved.	11/12/2025 (120 days)	20%	Facilitators	12/11/2025		12/11/2025: K Amidon Presented Communication Memo #1 to committee. 1/9/2026: Memo #1 distributed. 1/19: Memo #2 distributed. 4/17: Memo #3 distributed. 4/22: Memo #4 distributed.
8	List of recommendations for the initial commissioners for the New Commission will be provided to Delegation. <i>(Within 60 days of approved changes to the Act*)</i>	Estimate 8/31/2026 (as noted)	0%				
9	Complete the technical evaluation and financial valuation of the collection systems.	2/27/2027 (15 months)	75%	Officials of OJRSA, Cities/Town, & County	4/14/2026		8/13/2026: Raftelis presented brief update to committee. 9/10: Anticipate receipt of draft report or update in October.
10	Unified, equitable rate structure timeline will be provided as part of initial terms for collection system consolidation.	5/12/2027 (18 months)	0%				
11	Legal documents to transfer collection system assets to OJRSA to be executed, as well as all necessary reconstitution documents.	7/15/2027 (24 months)	0%				
12	If the legislative amendments have not be approved, plans for consolidation under the amended Act will be abandoned. Thereupon, the OJRSA will proceed to consolidate the member system and implement the reconstitution under the existing Act, with such process to be finalized by no later than 36 months. Additionally, all members shall be issued permits in compliance with the OJRSA Sewer Use Regulation and added as co-permittees under the NPDES permit, if consolidation for any member does not occur.	8/16/2027 (25 months)	0%				
13	Finalize consolidation and associated activities	7/17/2028 (36 months)	0%				

^ As noted in Exhibit A of the “OJRSA Reorganization Recommendations,” the implementation schedule is to began when the OJRSA Board of Commissioners accepted the report its July 15, 2025 called meeting.

* Estimated to be July/August 2026.

								RESTRICTED FUND PROJECT MILESTONES							
Row #	Restricted Fund Projects <i>(Project Manager)</i>	OJRSA Project #	Approx % Complete	Anticipated Completion	OJRSA Funding Amount (\$)	Max Funding by Others (\$)	PO/Contract Amount (\$)	Bids/RFQ/etc. Issue/Advertised	PO/Contract Signed	Started Work	Completed	Obligated/ Spent Curr + Prev Years (\$)	Budget Remaining (\$)	GL Code <i>(XXXXX = get from Office Mgr)</i>	
A	I-85 Corridor Phase II <i>See below (CE)</i>	2019-XX and 2023-06	96%	<i>See below</i>	N/A	N/A	N/A	<i>See below</i>	<i>See below</i>	<i>See below</i>	<i>See below</i>	<i>See below</i>	<i>See below</i>	RO&M: CIP 1401-06050	
	Engineering and Inspection Services COUNTY FUNDED		100%	10/31/2024	0	480,850	1,042,220	Inherited from Oconee Co	5/4/2023	5/4/2023	2/4/2025	451,415	590,805	RO&M: Prof Svcs 1301-02430	
	Construction EDA/RIA/COUNTY FUNDED		100%	10/31/2024	0	12,311,447	11,687,329	9/27/2022	3/23/2023	6/1/2023	2/4/2025	11,687,329	(0)	RO&M: CIP 1401-06050	
	Engineering for Creek Stabilization & Welcome Center Waterline		10%	TBD	0	78,650	78,650	EJCDC Contract Amend #3	2/20/2025	1/8/2026		0	78,650	RO&M: CIP 1401-06050	
B	Dewatering Equipment Replacement at WRF <i>See below (JM, KL)</i>	2024-06	96%	<i>See below</i>	N/A	N/A	N/A	<i>See below</i>	<i>See below</i>	<i>See below</i>	<i>See below</i>	<i>See below</i>	<i>See below</i>	PROJ & CONT 1501-09011	
	Design, Construction Admin, and Inspection SCIIP MATCH		97%	Sub: 9/23/2026 Final: 10/13/2026	440,300	0	440,300	9/15/2023	12/19/2023	1/11/2024		427,400	12,900		
	Construction SCIIP GRANT		95%	Sub: 9/23/2026 Final: 10/13/2026	0	5,686,989	4,256,290	3/22/2024	7/30/2024	7/26/2024		3,066,359	1,189,931		
C	Martin Creek PS Basin Trunk Sewer CCTV Engineer Review and Flow Study Report <i>(CE)</i>	2025-03	100%	3/31/2025	141,000	0	141,000	Consent Order Prof Svcs	9/30/2024	11/1/2024	7/22/2025	141,000	0	PROJ & CONT 1501-09012	
D	Evaluation of Gravity Sewer CCTV/Smoketesting from 1A (WRF) to MH29 <i>(KL)</i>	2024-04	100%	11/15/2025	31,500	0	31,500	Prof Svcs	8/12/2025	8/15/2025	12/16/2025	31,500	0	PROJ & CONT 1501-09014	
E	Consent Order Gravity Sewer Rehab Project (SSES/Inspection: 2023) <i>See below</i>	2024-08	100%	<i>See below</i>	N/A	N/A	N/A	<i>See below</i>	<i>See below</i>	<i>See below</i>	<i>See below</i>	<i>See below</i>	<i>See below</i>	PROJ & CONT 1501-09009	
	Engineering SCIIP MATCH		100%	9/29/2025	584,500	0	584,500	N/A	9/15/2023	10/3/2023		464,002	120,498		
	Manhole Resiliency Plan: Project 1c SCIIP MATCH		100%	9/30/2025	87,500	0	TBD	N/A	4/21/2025	4/21/2025	5/13/2026	24,075	0		
	Construction/Rehabilitation PHASE 1 SCIIP GRANT		100%	SC: 9/18/2025 FC: 10/23/2025	0	4,061,570	3,262,337	8/14/2024	11/20/2024	1/27/2025	4/2/2026	2,591,330	671,007		
	Construction/Rehabilitation PHASE 2 SCIIP GRANT		Will not perform	Will not perform	0	Will not perform	Will not perform	1/13/2026	Will not perform	Will not perform	Will not perform	0	0		
F	Speeds Creek FM Replacement <i>See below</i>	2026-11	28%	<i>See below</i>	N/A	N/A	N/A	<i>See below</i>	<i>See below</i>	<i>See below</i>	<i>See below</i>	<i>See below</i>	<i>See below</i>	PROJ & CONT 1501-09015	
	Engineering Design & Easements Only <i>(CE, JW)</i>		92%	6/30/2026 UPDATE: 9/30/2026	69,000	0	69,000	IDC Engineer	2/24/2026	4/15/2026		65,650	3,350		
	Final Design & Permitting <i>(JW, CE)</i>		0%	TBD	TBD	TBD	TBD	IDC Engineer				0	0		
G	Project #2026-02 General Water Reclamation Facility Installation Projects	2027-02	1%	6/12/2027		0	TBD	7/28/2026	Bids Due 9/18/2026			0	0	PROJ & CONT 1501-09016	
H			0%									0	0		
					1,353,800	9,748,559	8,784,927	TOTAL RESTRICTED FUNDS OBLIGATED/ACTUAL TO DATE:					6,811,317	1,997,685	REMAINING

FY2027 RESTRICTED FUND PROJECTS

PROJECTS MAY CARRY ACROSS BUDGET YEARS

9/15/2026 16:34

Row #	Restricted Fund Projects <i>(Project Manager)</i>	Comp. Performing (and Project Mgr)	Notes
A	I-85 Corridor Phase II <i>See below (CE)</i>	<i>Varies. See Below</i>	12/17: Forwarded P Shirley email regarding waterline at Welcome Center and the Broomway bridge/culvert option. Asked KL for update on locating/GPSing cleanout at 501 E Fairplay Blvd. and get rim and grade elevations. Received revised record drawings from D&F. Received update from T Dupree about stabilization. There are some needs (he included in email). Asked him to contact Moorhead b/c warranty period ends 12/19/26. 12/19: L Flynn received response from D Whipple stating they are considering bridge option and asked for more info. 12/30: Info from T Dupree forwarded to L Flynn to share with D Whipple. 1/5/2025: T Dupree and Joe Laws with SCDOT communicating about gate access. 1/7: OJRSA informed D&F of approval of gate plan that was received earlier in day. Completed SCDOT permit. 1/8: Sent letter to B Dean (DOT) saying OJRSA would maintain gate. 2/20: Received SCDOT Encroachment Permit to install gate at controlled access location at Exit 2. KL to get quotes from qualified SCDOT contractors. 3/9: T Dupree confirmed SCDOT Encroachment Permit was submitted for water line at Welcome Center last week. 4/14: T Dupree believes the cleanout that was broken off is now under the northbound travel lane of SC 59. If we need a permit to dig into road, then need encroachment permit for work. 6/8: Gate installed at Exit 2. 8/10: T Dupree working on finalizing possible pipebursting or boring project to replace the tap damaged by DOC contractor.
	Engineering and Inspection Services COUNTY FUNDED	Davis & Floyd Travis Dupree	
	Construction EDA/RIA/COUNTY FUNDED	Moorhead Construct Kevin Moorhead	
	Engineering for Creek Stabilization & Welcome Center Waterline	Davis & Floyd Travis Dupree	
B	Dewatering Equipment Replacement at WRF <i>See below (JM, KL)</i>	<i>Varies. See Below</i>	4/10: Harper has begun concrete floor removal. 4/21: Drain lines are now tied in. 5/19: Concrete poured for base and pillars. 6/16: Conveyor has arrived, rest of equipment scheduled for delivery next week. 6/22: Equipment starting to arrive. 7/27: Executed CO #4 to replace one sludge pump valve in amount of \$11,812.27 and was within the preauthorized maximum amount approved by board. This is to be funded by SCIIP. There will likely be one more CO that will be funded by RIA that will require board approval as it will then exceed the preauthorized amount. This will be discussed at upcoming meeting. 8/6: Substantial completion expected by late August. On schedule to finish mid-September. 8/24: Scheduled demo of tank and possible testing of screw presses. SCDES coming to inspect the following day. 9/1: SCDES inspected and gave verbal PTO. OJRSA sent O&M letter to SCDES by email. 9/11: Received Permit to Operate from SCDES.
	Design, Construction Admin, and Inspection SCIIP MATCH	KCI Technologies Tom Vollmar	
	Construction SCIIP GRANT	Harper GC Justin Jones	
C	Martin Creek PS Basin Trunk Sewer CCTV Engineer Review and Flow Study Report <i>(CE)</i>	Ardurra Priya Verravalli	5/5: Received draft report to review. 6/2: Provided comments to Priya. 7/24: Received final report. COMPLETE.
D	Evaluation of Gravity Sewer CCTV/Smoketesting from 1A (WRF) to MH29 <i>(KL)</i>	Ardurra Priya Verravalli	Review CCTV for 9,525 LF of 30" and 36" RCP and 29 manhole inspections to develop list of defects for design of sewer rehab.12/16: J Lyon needs to speak with Rebecca Turner on final comments. 12/16: Received final report. COMPLETE.
E	Consent Order Gravity Sewer Rehab Project (SSES/Inspection: 2023) <i>See below</i>	<i>Varies. See Below</i>	2/16: Will be looking at seeding and strawing soon. Bio-Nomic will allow for OJRSA to review and approve easement conditions prior to seeding/strawing. Will schedule final manhole inspections once KL returns tomorrow. Pay App that was submitted in December is on hold because engr missing 15 CCTV videos and 3 test results. This info was sent by email last week. Discussion about accessing manholes because one seems too small for a person to access. 2/17: Received one bid for Phase 2. Uncertified bids were \$957,540 base, \$699,900 Alternate, \$1,657,440 total. 3/23: Completed Freeman. Working on Dr. John Rd. and Emergency Ln. Will move to Armstrong soon. Executed CO #8 for \$9,240 increase for materials and decrease of \$117,737.45 for owner credits. 3/25: Bio-Nomic should be complete next week and out of area. 3/30: Bio-Nomic anticipates complete demobilization on 4/1. 4/2: Received notification from Robbi Bennett (Bio-Nomic) that they have completed work. Verification of conditions needed by OJRSA and engineer. 4/8: Substantial Letter of Completion issued by engineer. 4/15: Engineer reported the contractor is working on punchlist items near Armstrong Rd, Dr John’s Rd, and Emergency Lane and they expect to be finished by the end of the week. 4/17: Sent draft agreement for waiver of liquidated damages to contractor for review. 4/21: Contractor expecting to be completed tomorrow. 4/30: P Verravalli confirmed that all punchlist items have been addressed. 5/15: RIA confirmed that they do not feel there is enough time to complete Phase 2 before October 1, 2026 deadline. 5/18: Final Pay App (#7) processed. COMPLETE.
	Engineering SCIIP MATCH	Ardurra Priya Verravalli	
	Manhole Resiliency Plan: Project 1c SCIIP MATCH	Ardurra Priya Verravalli	
	Construction/Rehabilitation PHASE 1 SCIIP GRANT	Bio-Nomic Services Buck Stevenson	
	Construction/Rehabilitation PHASE 2 SCIIP GRANT	TBD	
F	Speeds Creek FM Replacement <i>See below</i>	<i>Varies. See Below</i>	5/19: Updated expected completion date. B&M info not received until last week. 6/30: Received tech memo for review. 7/7: Provided comments back to engineer. 8/6: Waiting on SL&W/Seneca mtg so they can provide input for future areas of growth. 8/20: Met with W&S, K Amidon (Bolton & Menk), and Seneca Light & Water staff to discuss potential options that would accommodate future needs. All agreed the best way to proceed was to continue flow from station-to-station-to-WRF as it currently exists, meaning Martin PS force main bypass project as identified in 2024 Master Plan will not occur and Speeds PS/FM will need to be sized appropriately. This was determined to be best option because if Martin FM was to be rerouted, it would have to be performed at same time as Speeds FM and PS downsizing project. W&S to update final Speeds FM report to include upsizing FM. Report should be complete by end of September 2026. 9/15: Waiting on B&M to complete update.
	Engineering Design & Easements Only <i>(CE, JW)</i>	Weston & Sampson Jason Gillespie	
	Final Design & Permitting <i>(JW, CE)</i>	Weston & Sampson Jason Gillespie	
G	Project #2026-02 General Water Reclamation Facility Installation Projects	TBD	Project includes Aeration Valve Replacements, Aeration Drive Removal, Plant Utility Water Pump Replacement, Anoxic Mixer & Disinfection Drive, and Motor Replacement Digester Valve Replacements. Bids due 9/18. 8/19: Mandatory pre-bid meeting. 7 companies attended.
H			



August 17, 2026

Christopher Eleazer, MPA, Executive Director
Oconee Joint Regional Sewer Authority
623 Return Church Road
Seneca, South Carolina 29678
Via email: chris.eleazer@ojrsa.org

Subject: **Odor Investigation Report**
Oconee Joint Regional Sewer Authority
623 Return Church Road
Seneca, South Carolina 29678
BLE Proposal Number 26-29923

Dear Mr. Eleazer,

Bunnell-Lammons Engineering, Inc. (BLE) is pleased to submit this report of the odor investigation performed in support of Oconee Joint Regional Sewer Authority (OJRSA) located at 623 Return Church Road in Seneca, South Carolina.

I. Project Information

The Oconee Joint Regional Sewer Authority (OJRSA) owns and operates the 7.8 million gallons per day (MGD) Coneross Creek Water Reclamation Facility (WRF). Operations at the plant began on February 4, 1980. The original treatment plant was upgraded to 7.8 MGD from 5.0 MGD in 1996. Treatment equipment at the facility includes, but is not limited to clarifiers, aeration basins, aerobic digesters, sludge dewatering and handling.

OJRSA has expressed concern about odor complaints from the surrounding neighbors, specifically in the Cross Creek private golf community located to the north and east of the wastewater treatment plant. From January 2026 through June 2026, OJRSA received thirty-two complaints pertaining to nuisance odors from residents in and around the Cross Creek neighborhood. OJRSA contracted BLE to research potential causes of the odors. This report includes a summary of findings and recommendations.

II. Hydrogen Sulfide Monitoring

One common source of odor from wastewater treatment is hydrogen sulfide (H₂S), which is known for its pungent rotten egg odor. According to Occupational Safety and Health Administration (OSHA), the odor threshold for H₂S is low (0.01 to 1.5 ppm)¹. OJRSA currently utilizes multiple portable H₂S monitors in different locations throughout the wastewater facility and surrounding neighborhoods. Two types of

¹ <https://www.osha.gov/hydrogen-sulfide/hazards>



Odor Investigation Report
Oconee Joint Regional Sewer Authority

August 17, 2026
BLE Job No. 26-29923

monitors are used, Acrulog APPB2000 H₂S 0-2000 PPB and Acrulog LD 200 H₂S 0-200 PPM loggers. OJRSA reportedly began using the monitors in February 2026. Monitors are placed in various locations, but OJRSA targets areas where complaints have originated. These monitoring devices are rotated and taken out of service every thirty days. It was reported that the devices are also sent to an outside vendor for calibration every six months. The monitoring data is physically downloaded by OJRSA weekly via Acrulog computer software.

A summary of the available monitoring data recorded on complaint days is presented as **Enclosure 1**. The H₂S readings taken in Cross Creek or just outside the neighborhood (510 Dye Drive, Copperhead Hill, and Plant Creek Line) were all less than 0.20 ppm on complaint days. Readings taken at a manhole in Cross Creek on complaint days were all 1 ppm. Readings taken at the wastewater treatment plant (Headworks, Digester 1, Plant Digester) on complaint days ranged from 0 to 5 ppm. The highest reading (5 ppm) was recorded at Digester 1. There was no specific correlation between H₂S readings and the complaints. While the monitors detected H₂S at 510 Dye Drive, Copperhead Hill, and Plant Creek Line on complaint days, there were days of complaints with no H₂S detected on that day.

In a study published in March 2007, wastewater treatment plant (WWTP) workers from four different plants volunteered to participate in personal H₂S monitoring over a span of approximately three years. These WWTP were chosen as being representative of typical municipal plants with a range of incoming flow rates between 4 and 38 MGD. The average level of hydrogen sulfide measured was typically less than 1 ppm and ranged from 0 to 42.50 ppm with a peak level of 122 ppm. The peak value was detected during sludge collection and dewatering, as shown in Table 7 from the article.²

TABLE 7
Average Concentrations of Hydrogen Sulfide at Unit Operations

Unit Operations	N	GM (ppm)	Maximum (ppm)	Peak (ppm)
Grit room	39	0.14	0.63	10.0
Primary clarification tank	21	0.18	0.63	28.0
Biological degradation unit	24	0.12	0.37	4.2
Secondary clarification tank	27	0.13	0.41	4.2
Sludge collection and dewatering	43	0.42	42.50	122.0
Digestion	26	0.12	1.00	3.7
Disinfection	6	0.14	1.00	1.0
Office/other	98	0.10	0.87	7.0
Overall averages	284	0.16	42.50	122

GM indicates geometric mean; maximum, maximum average concentration for the task; peak, peak concentration for the task.

The H₂S readings taken at the Coneross WRF are within the typical range of these wastewater treatment plants tested.

It should be noted that odors could also be caused by other compounds, particularly sulfur-bearing compounds (e.g., methyl mercaptan, dimethyl sulfide). The monitors used by OJRSA reportedly detect only hydrogen sulfide.

² Lee JA, Thorne PS, Reynolds SJ, O'Shaughnessy PT. Monitoring risks in association with exposure levels among wastewater treatment plant workers. J Occup Environ Med. 2007 Nov;49(11):1235-48.



*Odor Investigation Report
Oconee Joint Regional Sewer Authority*

*August 17, 2026
BLE Job No. 26-29923*

III. Wastewater Treatment Plant Operational Data

Aerobic digesters use oxygen to decompose organic material within the wastewater. The output of this process is mostly water and carbon dioxide and is typically not odorous when dissolved oxygen concentrations are sufficient. Potential causes of odors from aerobic digesters may include low oxygen levels, system overloads, poor mixing, imbalanced pH, anaerobic conditions in dewatered sludge, etc. The outdoor headworks and sludge handling pad are two of the most common sources of nuisance odors at aerobic wastewater treatment plants. At the headworks, wastewater arriving from the collection system frequently contains dissolved hydrogen sulfide and other reduced sulfur compounds that can be emitted via turbulence and wastewater conveyance. On the outdoor sludge handling pad, dewatered biosolids may readily develop anaerobic conditions, generating hydrogen sulfide, mercaptans, ammonia, amines, and volatile fatty acids that produce strong, pungent odors. Because both areas are uncovered and exposed to ambient air, odors can readily travel off-site under typical wind conditions, even when the biological treatment process itself is operating aerobically.

However, OJRSA has reported that it manages the treatment process to eliminate and/or correct odor causing issues. OJRSA reported no high loading events, process upsets, or equipment failures on days of complaints.

Furthermore, OJRSA provided BLE with a report from Amy Towe, Water Quality Compliance Team Lead, with the South Carolina Department of Environmental Services (SCDES). SCDES conducted a formal Wastewater Compliance Evaluation Inspection (CEI) on March 26, 2026. The SCDES inspection report stated that no deficiencies were noted during the inspection. OJRSA also reported that the WRF has not experienced operational issues in 2026 that would cause significant odors.

IV. Weather Data

BLE attempted to assess the correlation between weather conditions and odor intensity. Elevated temperatures, thermal inversions, and heavy precipitation have been known to intensify odors associated with wastewater treatment processes. During a temperature inversion, atmospheric conditions result in warm air overlaying and trapping cooler, denser air near the surface. Typical weather and environmental signs of an inversion include calm wind, clear skies, and surface moisture (e.g., dew, mist, low-lying fog, etc.).³ The inversion prevents upward air mixing and causes heavier gases, such as H₂S and sulfur-bearing compounds, to accumulate lower to the ground, leading to the localized characteristic rotten egg odor.

Although there is a weather station at the treatment plant, it is owned and operated by Oconee County Emergency Services. Therefore, historical weather data could not be obtained for the local area. OJRSA recently installed a weather station at 510 Dye Drive, which began operation on June 24, 2026. This weather station allows OJRSA to monitor weather conditions (e.g., wind direction and wind speed) in real time to determine if the prevailing winds are from the plant. **Enclosure 1** provides a summary of complaints from June 24, 2026 through July 28, 2026 and the weather conditions recorded at 510 Dye Drive. The prevailing wind direction for each complaint during this period was from the north or northwest and the wind speed was light (0 to 3 miles per hour). A prevailing wind direction is a surface wind that blows predominantly from a particular direction. A "prevailing west wind" means the air most often moves in from the west. The treatment plant is located southwest of the Cross Creek neighborhood. Odors from the plant would be expected from the same direction (southwest).

³ Understanding Air Temperature Inversions Relating to Pesticide Drift, North Dakota State University Extension (<https://www.ndsu.edu/agriculture/sites/default/files/2023-02/ae1876.pdf>)



*Odor Investigation Report
Oconee Joint Regional Sewer Authority*

*August 17, 2026
BLE Job No. 26-29923*

It is difficult to confirm the presence of a temperature inversion without monitoring ambient temperature at varying heights above ground and calculating the difference. However, weather conditions on the complaint days, especially in the morning, were favorable for an inversion. On those days, there was no rain, light winds, and high dew point/wet bulb temperature suggesting a moist atmosphere. An inversion could be the cause of lingering odors either from the treatment plant or other sources.

V. Historical Information

BLE obtained historical aerial photographs from LightBox Environmental Data Resources (EDR) to obtain information regarding historical land use of the area surrounding the OJRSA property. Aerials were obtained for the years 2023, 2019, 2015, 2011, 2006, 1994, 1981, 1977, 1965, 1956, 1951, and 1947. Notable changes to the area began in 1965. Between 1956 and 1965, a pond and a potential inlet structure were constructed to the northeast of the OJRSA property. In 1981, the pond appeared filled with soil and the wastewater treatment plant was constructed. In 1994, the golf course was constructed and the pond contained water again. In 1996, residences were built around the western side of the pond. The aerial photos from 2006 – 2023 continue to show development of the golf course and residences in the area to the east of the wastewater treatment facility. Aerial photographs, excluding photographs from 1947 and 1951, are included as **Enclosure 2**.

OJRSA provided BLE historical documentation from 1980 to 1981, maintained on file at their office. The documentation stated that the pond to the northeast of the OJRSA property was a former municipal sewer lagoon, owned and operated by the City of Seneca. This pond is highlighted on the aerial photographs in **Enclosure 2**. This lagoon, named the Lower Perkin's Creek Lagoon, was approximately 6 acres. It appears the lagoon operated from at least 1965 to 1981. In September 1980, Oconee County contracted to close out this lagoon and eight other lagoons due to the start of operation of the Coneross Creek WRF in February 1980. All nine lagoons were closed out by draining the sewage lagoon and covering the sludge remaining with two feet of uncompacted earth. The South Carolina Department of Health and Environmental Control (SCDHEC) issued a letter on December 30, 1981 stating that the Lower Perkin's Creek Lagoon had been properly closed. Documentation of the lagoon close-outs is presented as **Enclosure 3**.

VI. Conclusions and Recommendations

BLE was unable to determine a definitive source for the odor complaints. Due to the proximity of the Cross Creek residents to the WRF, odors from waste treatment are possible due to untreated sewage, biological processes, the headworks systems and sludge handling pad.

BLE understands that OJRSA is researching an atomizing odor control blower system that mixes water and a neutralizing chemical agent into a fine mist to bind and eliminate odor molecules in the air. This system could abate odors from the plant. BLE also understands that OJRSA plans to install new sludge dewatering equipment. Solids will be conveyed into a hopper, which will be stored under a shed. This will replace the existing open solids pad with the goal of minimizing nuisance odors. Once the hopper is full it will be hauled off; operator handling will no longer be required.

Irrigation water used by the golf course could also be a potential source of odor. Many golf courses use pond water or reclaimed/gray water to irrigate golf course greens. H₂S contained in the irrigation water supply or trapped in the irrigation supply lines could cause a foul odor. If irrigation water is pumped from the ponds located at or around the golf course as observed in aerial imagery, then it is possible that pumping could disturb entrained gases from decomposing vegetation and sludge, releasing them into the atmosphere.



*Odor Investigation Report
Oconee Joint Regional Sewer Authority*

*August 17, 2026
BLE Job No. 26-29923*

It is also possible that there is correlation between organic fertilizer application by the Cross Creek Golf Club and odor. The application of fertilizer and biosolids, such as Milorganite, has been reported to have an earthy, musky odor for 24 to 48 hours after application. Furthermore, fertilizer application can cause excess nitrogen and phosphorus to wash into the ponds, which can cause algae blooms. As this algae and plant material dies, it falls to the bottom of the pond and decomposes, using up the oxygen in the water and creating foul-smelling gases like H₂S.⁴ Nuisance odors can be independent of irrigation and/or exacerbated through irrigation as noted in the previous paragraph.

Another potential source of odor in the Cross Creek area is the old wastewater lagoon. It is possible that organic sludge remains buried and covered by water in the pond. In the absence of oxygen beneath the water and soil layers, microbes slowly decompose the remaining organic matter, generating small quantities of methane and carbon dioxide, which contribute to foul odors.⁵

In addition to considering the proposed treatment system upgrades, BLE recommends requesting Cross Creek Golf Club collect samples from the pond located behind Dye Drive and submitting samples to a certified third-party laboratory for analysis of dissolved oxygen (DO), ammonia, pH, nitrates/phosphates, and hydrogen sulfide to determine if the odor could be from organic decay or nutrient excess in the pond.

VII. Closing

BLE appreciates the opportunity to support OJRSA with this project. If you have any questions, please do not hesitate to contact us at (864) 288-1265.

Sincerely,

BUNNELL LAMMONS ENGINEERING, INC.

A handwritten signature in blue ink that reads 'Anna C. Franklin'.

Anna C. Franklin, P.E.
Senior Consultant | Environmental Compliance

A handwritten signature in blue ink that reads 'Nathan E. Daniel'.

Nathan E. Daniel, P.E.
Senior Engineer | Environmental Compliance

Enclosures

⁴ Nutrient Criteria Technical Guidance Manual Rivers and Streams (July 2000), U.S. Environmental Protection Agency (822-B-00-002)

⁵ Minghao Yun, Chao Zhang, Bin Wang, Jianjun Huang, Jingmei Sun (2024). The effects and mechanism of organic matter degradation in river sediment driven by humic-reducing bacteria, *Journal of Water Process Engineering*, Volume 67, 106150, ISSN 2214-7144



*Odor Investigation Report
Oconee Joint Regional Sewer Authority*

*August 17, 2026
BLE Job No. 26-29923*

ENCLOSURE 1

Hydrogen Sulfide Monitoring Data

**Oconee Joint Regional Sewer Authority
Hydrogen Sulfide Monitoring Results**

Complaint Information					Hydrogen Sulfide Monitor Readings						
					Headworks	Digester 1	Plant Digester	Seneca MH (Cross Creek)	510 Dye Drive	Copperhead Hill	Plant Creek Line
Date	Time	Complainant	Address	Area	PPM				PPM (recorded as PPB)		
2/15/2026	2:10pm	Smith	768 Dave Nix Rd	Coneross Creek WRF							
2/17/2026	12:36am	Moon	1607 Cross Creek Dr	Cross Creek Plantation	1						
2/19/2026	5:28am	Smith	768 Dave Nix Rd	Coneross Creek WRF	3				0		
3/6/2026	8:49am	Wood	103 Oak Ridge Circle	Off Radio Station Rd	1					0	
3/15/2026	10:30am	Luna	510 Dye Dr	Cross Creek Plantation						0.014	
3/30/2026	8:39am	Luna	510 Dye Dr	Cross Creek Plantation				1		0.011	
3/29/2026	12:26am	Moon	1607 Cross Creek Dr	Cross Creek Plantation				1		0.029	
4/3/2026	7:42am	Ables	161 Ables Rd	Cross Creek Plantation				1		0.037	
4/7/2026	9:28pm	Luna	510 Dye Dr	Cross Creek Plantation				1		0.063	
4/9/2026	4:09am	Luna	510 Dye Dr	Cross Creek Plantation				1		0.155	
4/9/2026	8:16am	Wood	103 Oak Ridge Circle	Off Radio Station Rd				1			
4/11/2026	11:43pm	Luna	510 Dye Dr	Cross Creek Plantation					0		
4/18/2026	9:35am	Luna	510 Dye Dr	Cross Creek Plantation					0		
4/19/2026	8:43am	Pacheco	3336 Championship Dr	Cross Creek Plantation					0		
4/20/2026	6:37am	Luna	510 Dye Dr	Cross Creek Plantation					0.005		
4/20/2026	10:40pm	Luna	510 Dye Dr	Cross Creek Plantation					0.005		
4/22/2026	12:33am	Luna	510 Dye Dr	Cross Creek Plantation							
4/21/2026	11:38pm	Moon	1607 Cross Creek Dr	Cross Creek Plantation							
5/4/2026	8:44am	Luna	510 Dye Dr	Cross Creek Plantation			2		0.003		0.005
5/5/2026	10:12am	Rothell	143 Rothell Dr Seneca	Coneross Creek WRF			2		0.008		0.007
5/6/2026	2:52pm	Wessels	1303 Cross Creek Dr	Cross Creek Plantation			2		0.004		0.003
5/10/2026	11:32pm	Luna	510 Dye Dr	Cross Creek Plantation			2		0.016		0.019
5/13/2026	11:50am	Lambert	1608 Cross Creek Dr	Cross Creek Plantation		0	---		0		0
5/16/2026	9:53am	Davin	Cross Creek Plantation	Cross Creek Plantation		2	2		0		0.004
5/27/2026	6:50pm	Wessels	1403 Cross Creek Dr	Cross Creek Plantation		1	1		0.003		0
5/27/2026	7:31pm	Luna	510 Dye Dr	Cross Creek Plantation		1	1		0.003		0
5/29/2026	7:58pm	Wessels	1403 Cross Creek Dr	Cross Creek Plantation		1	2		0.003		0
5/30/2026	1:59pm	Luna	510 Dye Dr	Cross Creek Plantation		5	3		0.003		0.004
6/5/2026	4:47pm	Wessels	1403 Cross Creek Dr	Cross Creek Plantation		2	2		0		0
6/8/2026	8:00am	Wessels	1403 Cross Creek Dr	Cross Creek Plantation		2	1		0.003		0.003
6/25/2026	10:26pm	Wessels	1403 Cross Creek Dr	Cross Creek Plantation		2	2				0
6/28/2026	6:32pm	Wessels	1403 Cross Creek Dr	Cross Creek Plantation							
7/2/2026	7:21am	Luna	510 Dye Dr	Cross Creek Plantation							
7/2/2026	7:25am	Amen	512 Dye Dr	Cross Creek Plantation							

**Oconee Joint Regional Sewer Authority
Hydrogen Sulfide Monitoring Results**

Complaint Information					Hydrogen Sulfide Monitor Readings						
					Headworks	Digester 1	Plant Digester	Seneca MH (Cross Creek)	510 Dye Drive	Copperhead Hill	Plant Creek Line
Date	Time	Complainant	Address	Area	PPM				PPM (recorded as PPB)		
7/9/2026	2:43pm	Wessels	1403 Cross Creek Dr	Cross Creek Plantation							
7/10/2026	12:31pm	Luna	510 Dye Dr	Cross Creek Plantation					0		
7/10/2026	8:15pm	Wessels	1403 Cross Creek Dr	Cross Creek Plantation					0		0.003
7/11/2026	2:42pm	Moon	1607 Cross Creek Dr	Cross Creek Plantation					0.008		0.005
7/28/2026	8:46pm	Wessels	1403 Cross Creek Dr	Cross Creek Plantation		15			0		0.008

NOTE: If the cell is blank, no monitoring data was collected.

**Oconee Joint Regional Sewer Authority
Weather Data for Complaint Days**

Complaint Information					Recorded Weather Data at 510 Dye Drive							
					Barometer	Temperature	Dew Point	Wet Bulb Temp	Humidity	Avg Wind Speed	Prevailing Wind	Rain
Date	Time	Complainant	Address	Area	Hg	°F			%	mph	Direction	inches
6/25/2026	10:26pm	Wessels	1403 Cross Creek Dr	Cross Creek Plantation	30.28	71	67	68	88	0	N	0
6/28/2026	6:32pm	Wessels	1403 Cross Creek Dr	Cross Creek Plantation	30.15	89	76	79	65	1	NW	0
7/2/2026	7:21am	Luna	510 Dye Dr	Cross Creek Plantation	30.27	76	74	75	92	0	N	0
7/2/2026	7:25am	Amen	512 Dye Dr	Cross Creek Plantation	30.27	76	74	75	92	0	N	0
7/9/2026	2:43pm	Wessels	1403 Cross Creek Dr	Cross Creek Plantation	30.18	94	72	78	47	3	NW	0
7/10/2026	12:31pm	Luna	510 Dye Dr	Cross Creek Plantation	30.24	91	74	78	61	2	WNW	0
7/10/2026	8:15pm	Wessels	1403 Cross Creek Dr	Cross Creek Plantation	30.21	79	70	73	75	0	N	0
7/11/2026	2:42pm	Moon	1607 Cross Creek Dr	Cross Creek Plantation	30.26	82	75	77	76	2	NW	0
7/28/2026	8:46pm	Wessels	1403 Cross Creek Dr	Cross Creek Plantation	29.92	85	77	79	77	0	N	0



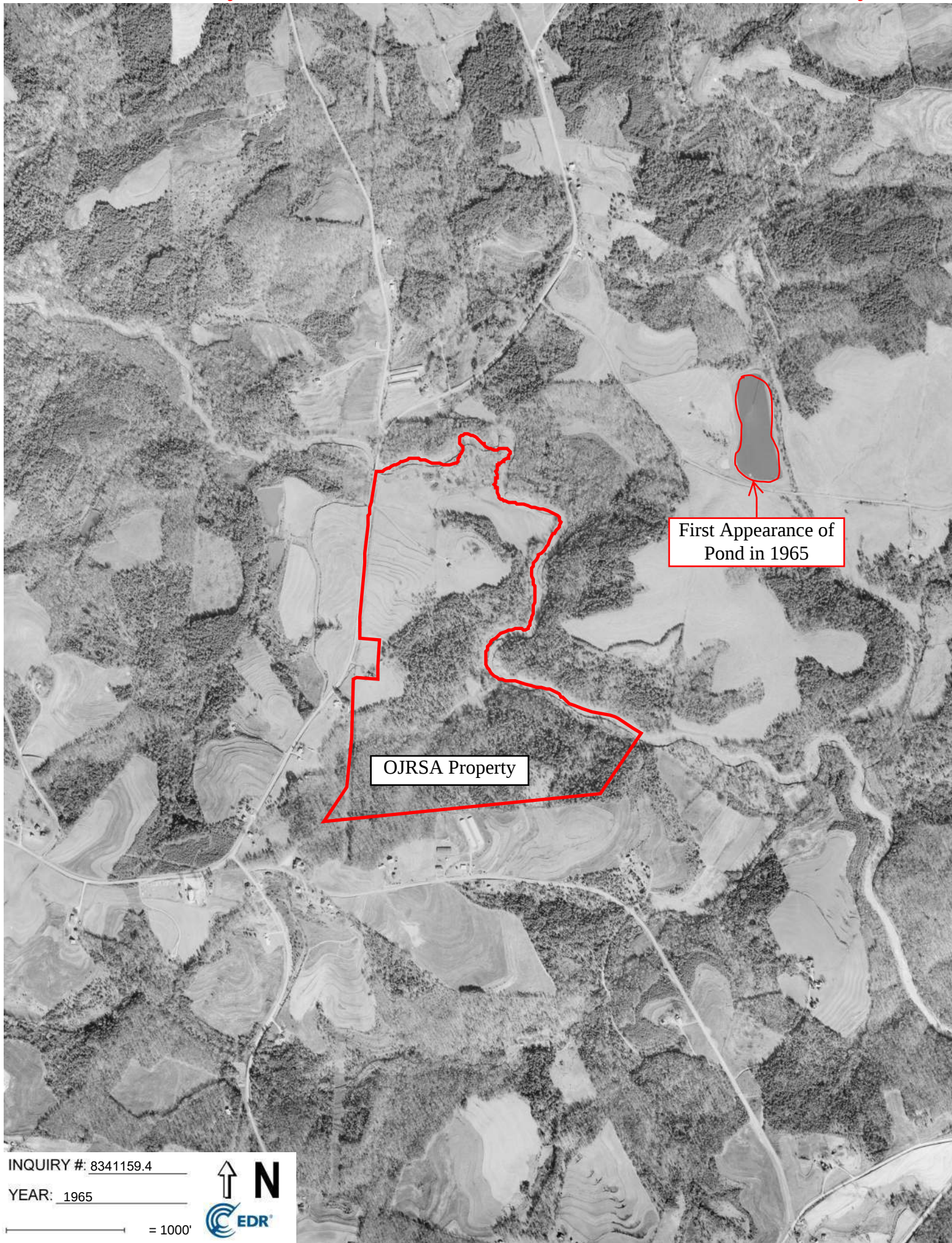
*Odor Investigation Report
Oconee Joint Regional Sewer Authority*

*August 17, 2026
BLE Job No. 26-29923*

ENCLOSURE 2

Historical Aerial Photographs



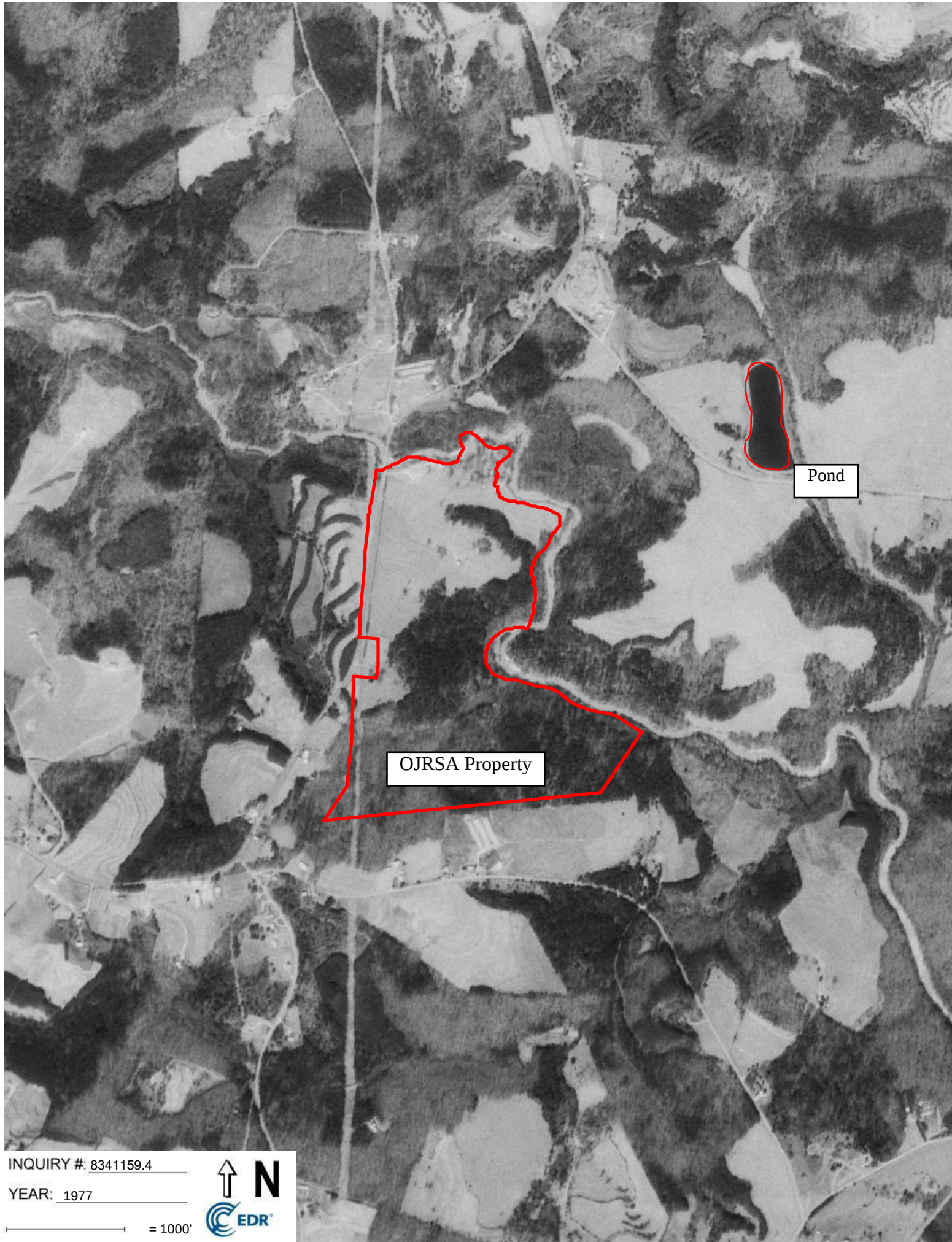


INQUIRY #: 8341159.4

YEAR: 1965

1" = 1000'



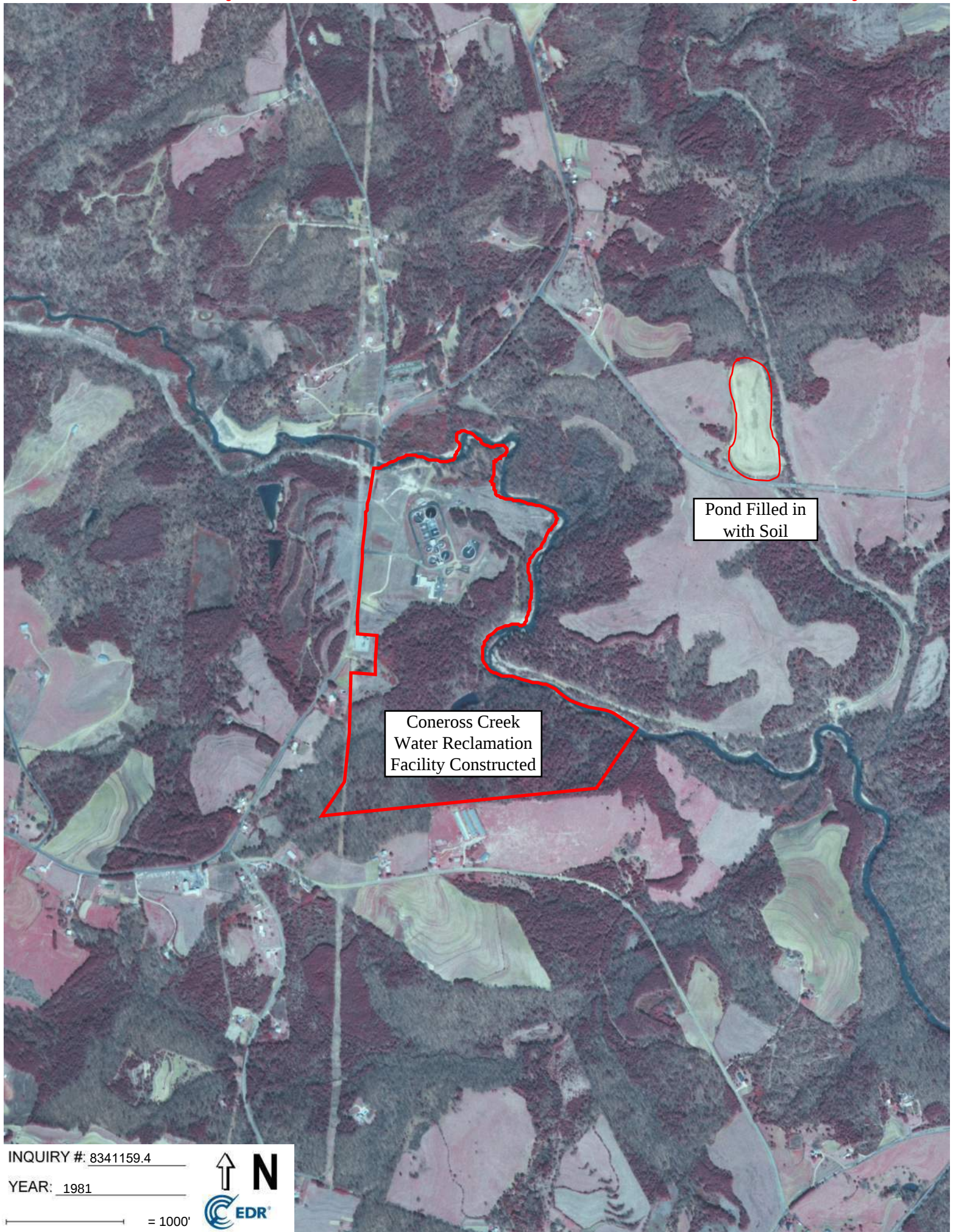


INQUIRY #: 8341159.4

YEAR: 1977

1" = 1000'



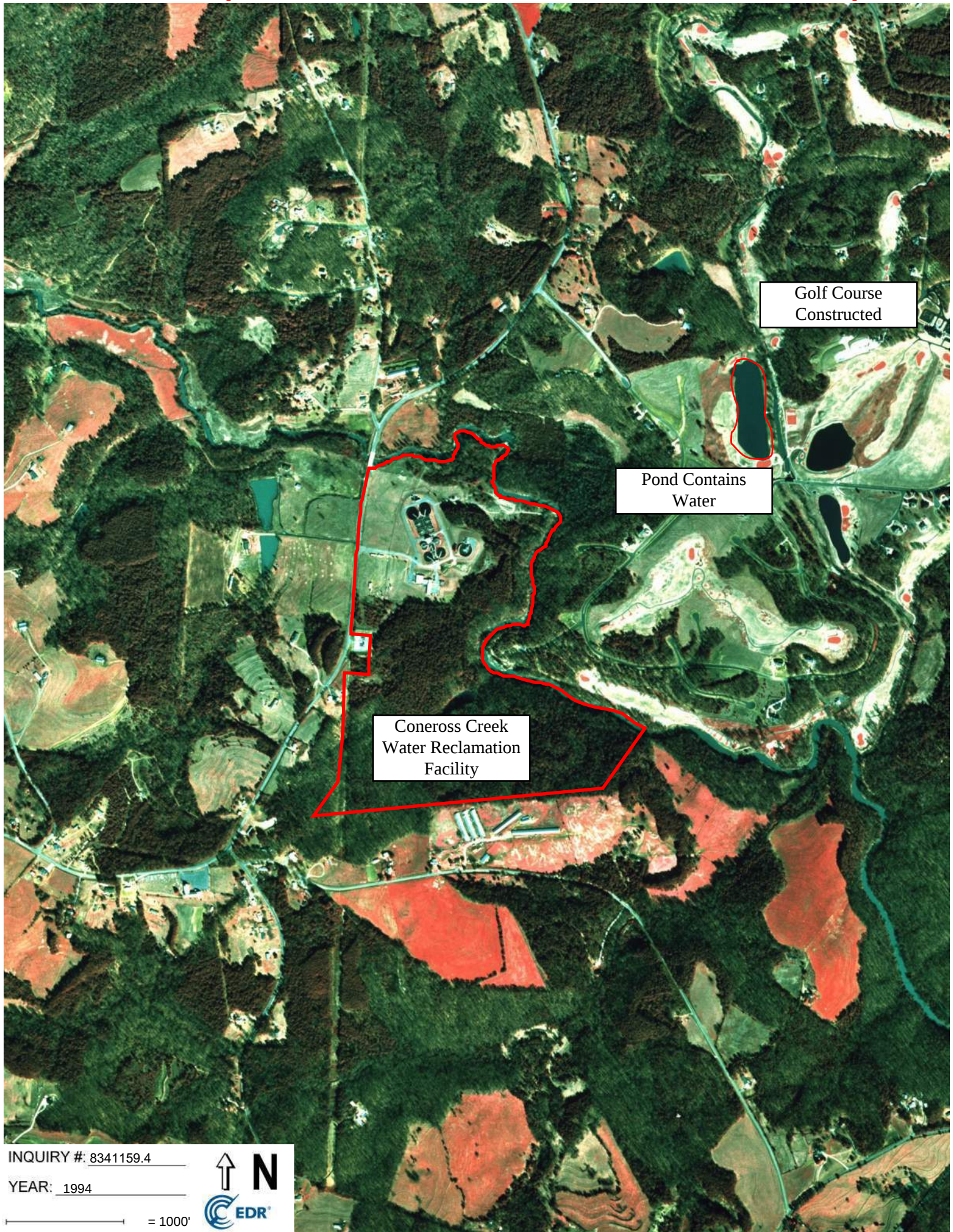


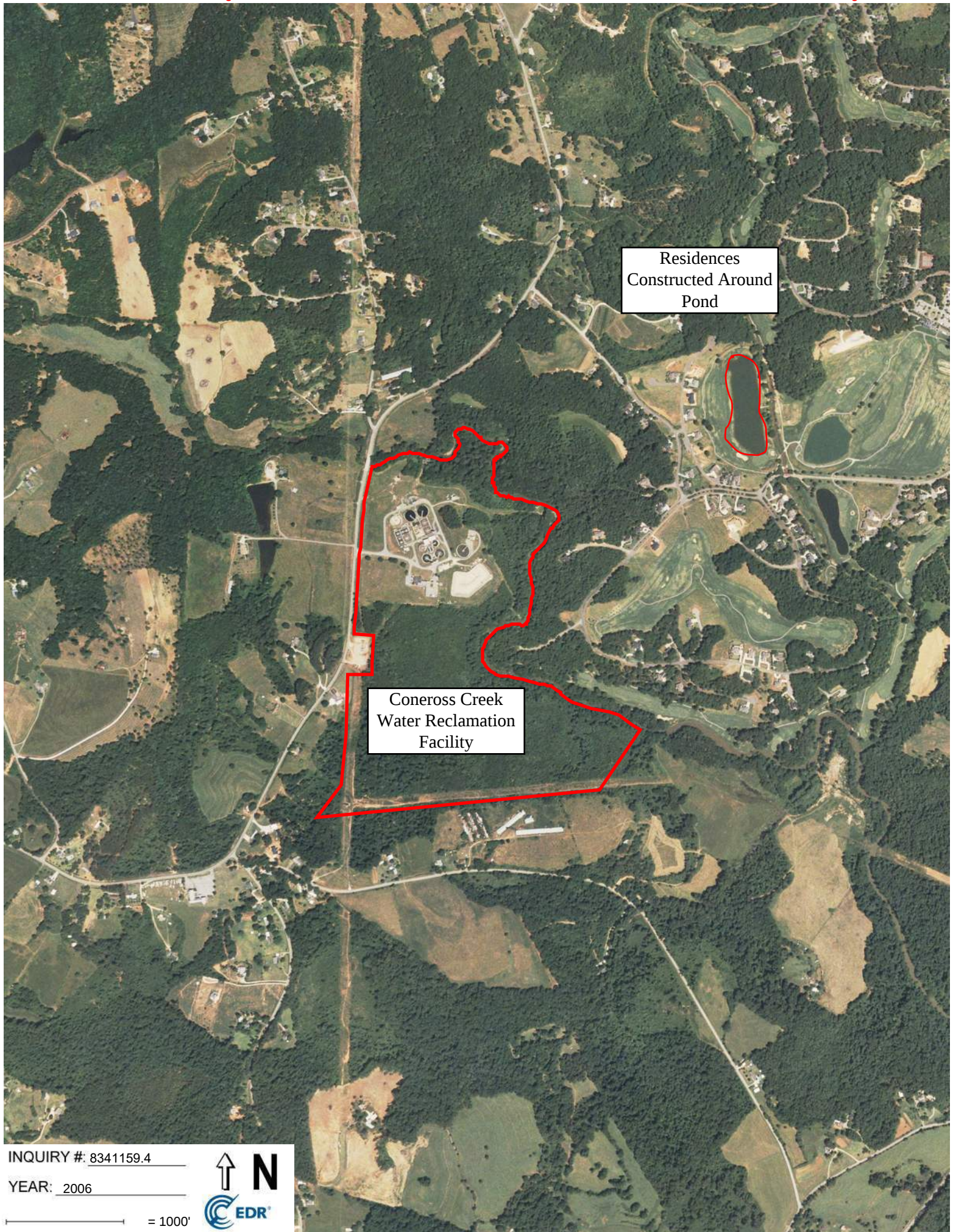
INQUIRY #: 8341159.4

YEAR: 1981

= 1000'





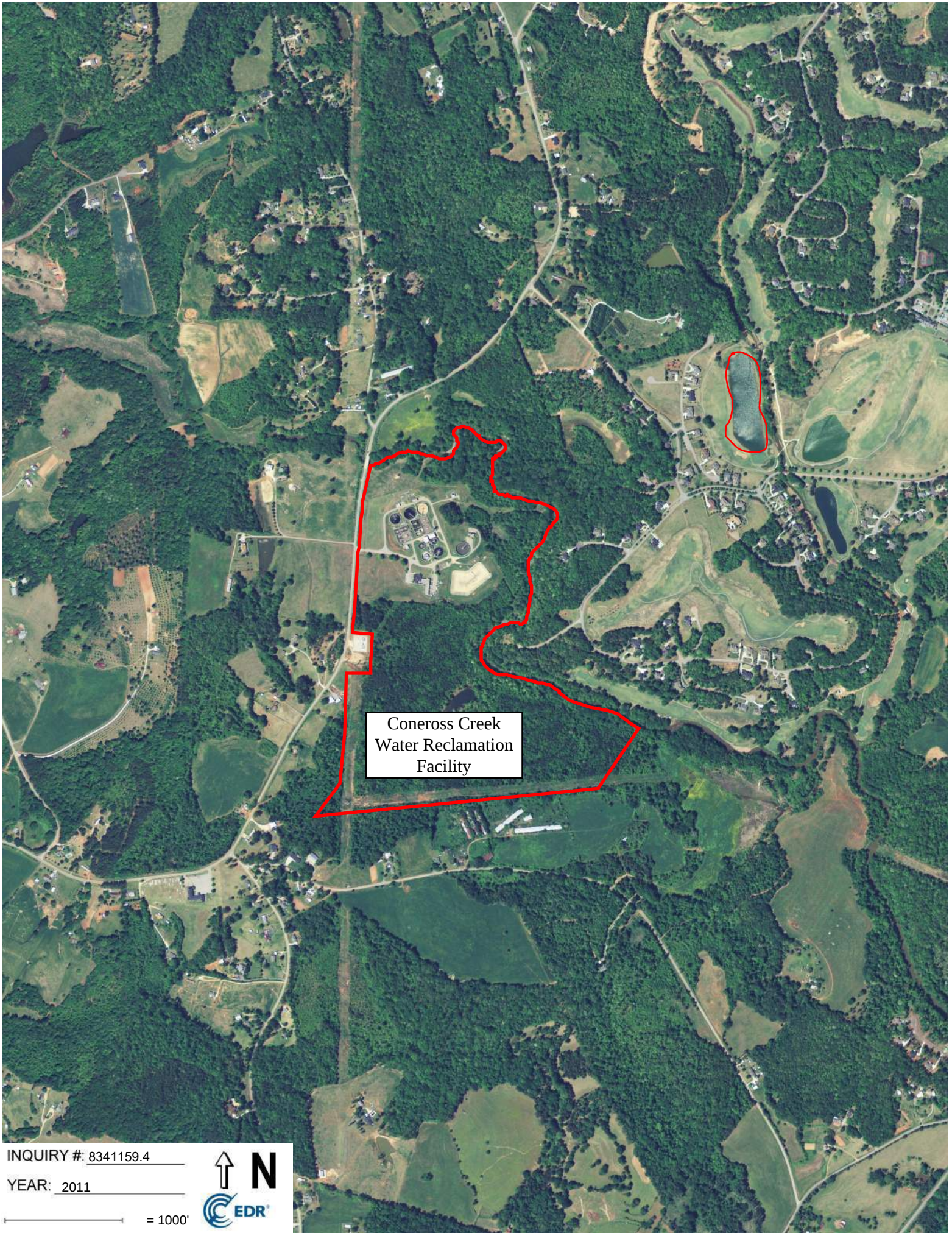


INQUIRY #: 8341159.4

YEAR: 2006

= 1000'





Coneross Creek
Water Reclamation
Facility

INQUIRY #: 8341159.4

YEAR: 2011

1" = 1000'





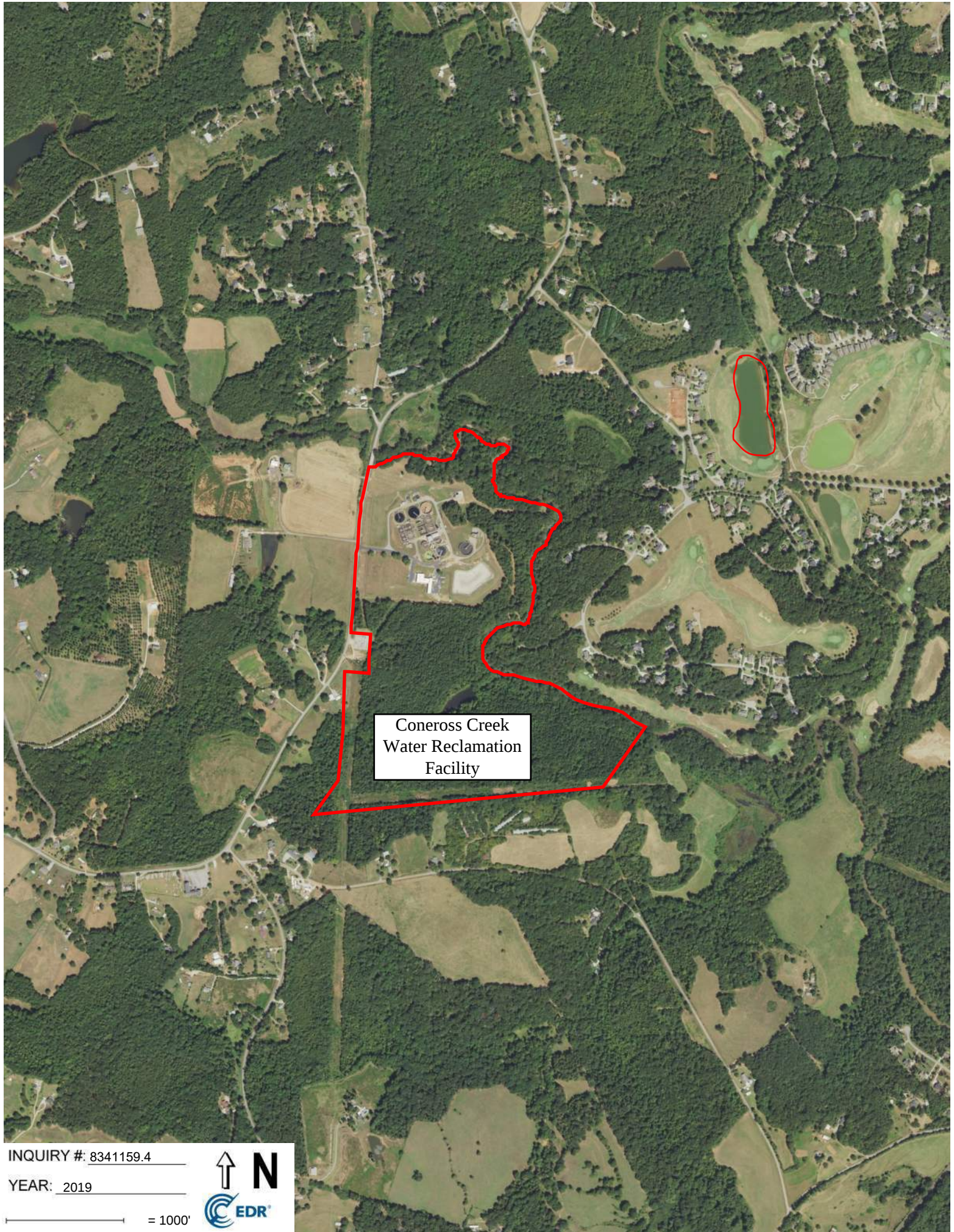
Coneross Creek
Water Reclamation
Facility

INQUIRY #: 8341159.4

YEAR: 2015

1" = 1000'



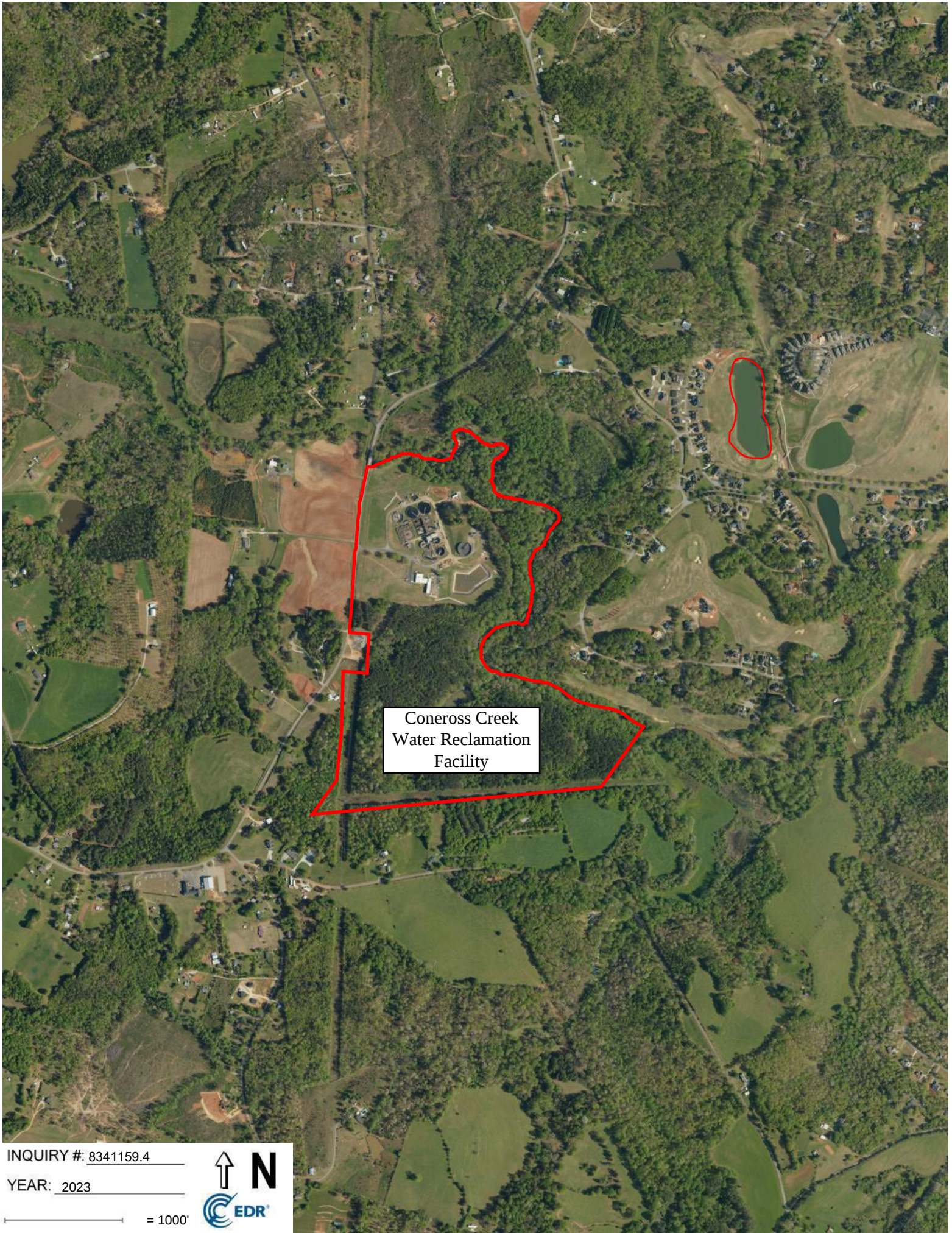


INQUIRY #: 8341159.4

YEAR: 2019

1" = 1000'







*Odor Investigation Report
Oconee Joint Regional Sewer Authority*

*August 17, 2026
BLE Job No. 26-29923*

ENCLOSURE 3

Wastewater Lagoon Closeout Documentation

STATE OF SOUTH CAROLINA)
)
 COUNTY OF OCONEE) AGREEMENT

THIS AGREEMENT made and entered into this 22nd day of September, 1980, by and between Thrift Bros., Inc., hereinafter called "the Contractor", and OCONEE COUNTY, hereinafter called "the County".

WHEREAS, Oconee County desires to perform certain rehabilitation of municipal sewer lagoons and septic tanks located within its bounds, which facilities were previously operated by the towns of Walhalla, Westminster or Seneca; and

WHEREAS, pursuant to an invitation to bid, the Contractor has made a proposal which has been accepted by the County to accomplish this work;

NOW THEREFORE:

FOR GOOD AND VALUABLE CONSIDERATION, the sufficiency of which is hereby acknowledged, the Contractor hereby agrees to undertake the completion, on behalf of the County, of that project described in the conditions, plans and specifications attached hereto and incorporated herein by reference, which generally encompasses the filling of lagoons and septic tanks formerly operated by the Towns of Walhalla, Westminster and Seneca, under the following terms and conditions:

I. SCOPE OF THE WORK

The Contractor agrees to furnish all labor, materials, equipment, and supplies necessary to complete the project and

work according to the conditions, plans and specifications which are attached hereto as Exhibit "1" and incorporated herein by reference.

II. ASSIGNMENT BY CONTRACTOR

The Contractor may not assign any portion of this Contract to any sub- or co-contractor, or to any other person, firm or corporation without the prior written consent and approval of the County.

III. COUNTY'S REPRESENTATIVE

The County's Representative with whom all contact shall be made by the Contractor shall be Mr. Steve Geddis, Director of the Oconee County Sewer Commission, EXCEPT, HOWEVER, representatives of each of the municipalities of Walhalla, Westminster and Seneca whose lagoons and/or septic tank facilities are being rehabilitated shall give advice and direction to the Contractor upon those matters within their special knowledge or control, i. e., removal of dirt from municipal lands, storage of timber and wood products, etc.

IV. INSURANCE

Prior to the commencement of any work to be done, and within five (5) days of the execution of these presents, the Contractor will furnish to the County evidence and proof sufficient to the County of the Contractor's public liability insurance coverage of not less than \$300,000/\$500,000, insuring third persons against loss to their property or for bodily injury by reason of negligence of the Contractor, its agents or employees. In addition,

the Contractor shall furnish to the County a copy of its workmens compensation insurance policy, covering employees of the Contractor.

V. SPECIAL CONDITIONS

The parties acknowledge that a major portion of the funding for this project shall be derived from Revenue Sharing Funds from the United States government; therefore, the Contractor agrees in every instance to comply with the provisions of the Davis-Bacon Act and the minimum wage rates provided therein, as well as all other federal, state, county or municipal laws, ordinances or regulations. The Contractor shall be required, where applicable, to obtain any licenses or permits for the accomplishment of the project.

VI. METHOD OF PAYMENT

The County agrees to pay to the Contractor upon completion of fifty (50%) percent of the work to be done, as estimated by the County's Representative, a sum equal to forty (40%) percent of the total bid price; that upon completion of an additional twenty-five (25%) percent of the work to be done as estimated by the County's Representative, there shall be paid to the Contractor an additional twenty (20%) percent of the bid price; and upon completion of the project according to the plans and specifications, the balance of the contract price shall be paid in full.

The total cost of the project to be paid by the County to the Contractor upon successful completion of the entire project

is the sum of One Hundred Forty Eight Thousand //(\$ 148,000.00) dollars.

Upon any progress payments and upon payment of the final installment of the bid price as provided herein, the Contractor shall provide and execute an Affidavit to induce the County to make such payments, which Affidavit shall state that the Contractor has paid or caused to be paid all employees, materialmen or suppliers on account of and by reason of labor, materials or supplies furnished to the Contractor for use in the pursuit of the project, and a covenant that there remains no outstanding indebtedness from the Contractor to any person, firm or corporation furnishing labor, materials or supplies.

VII. TIME OF COMPLETION

the Contractor shall commence the work to be done not later than 1 October 1980, and fifty (50%) percent of the work must be completed by not later than 1 November 1980, and the entire project not later than 1 December 1980. No extensions of time may be given by the County in the absence of a consent to such extension by the South Carolina Department of Health and Environmental Control.

VIII. ARBITRATION

If or in the event there should arise a dispute between the parties to this Agreement, the parties agree to submit any such dispute to arbitration by Piedmont Engineers and Architects, Inc., of Greenville, South Carolina, as "Arbitrator" and Umpire. The Arbitrator shall cause to be taken whatever testimony or

evidence it deems necessary in order to make a determination and resolution of the dispute, and its decision shall be binding upon both parties to this Agreement. Such decision shall include an assessment of costs of the arbitration.

TO ALL OF WHICH the parties have heretofore agreed, and in witness whereof, have hereunto placed their Hands and affixed their Seals, this day and date first above written.

Signed, Sealed, and Delivered
in the Presence of:
(As to County)

OCONEE COUNTY ("County")

(SEAL)

J. Richard Fay
C.E. Aillard

By: James M. Ramsey, _____

Attest: Jim S. Orr, _____

As to Contractor)

Thrift Bros., Inc. ("Contractor")

Dina T. Ramsey

By: Jim Thrift, _____

Attest: _____, _____

EXHIBIT "1"

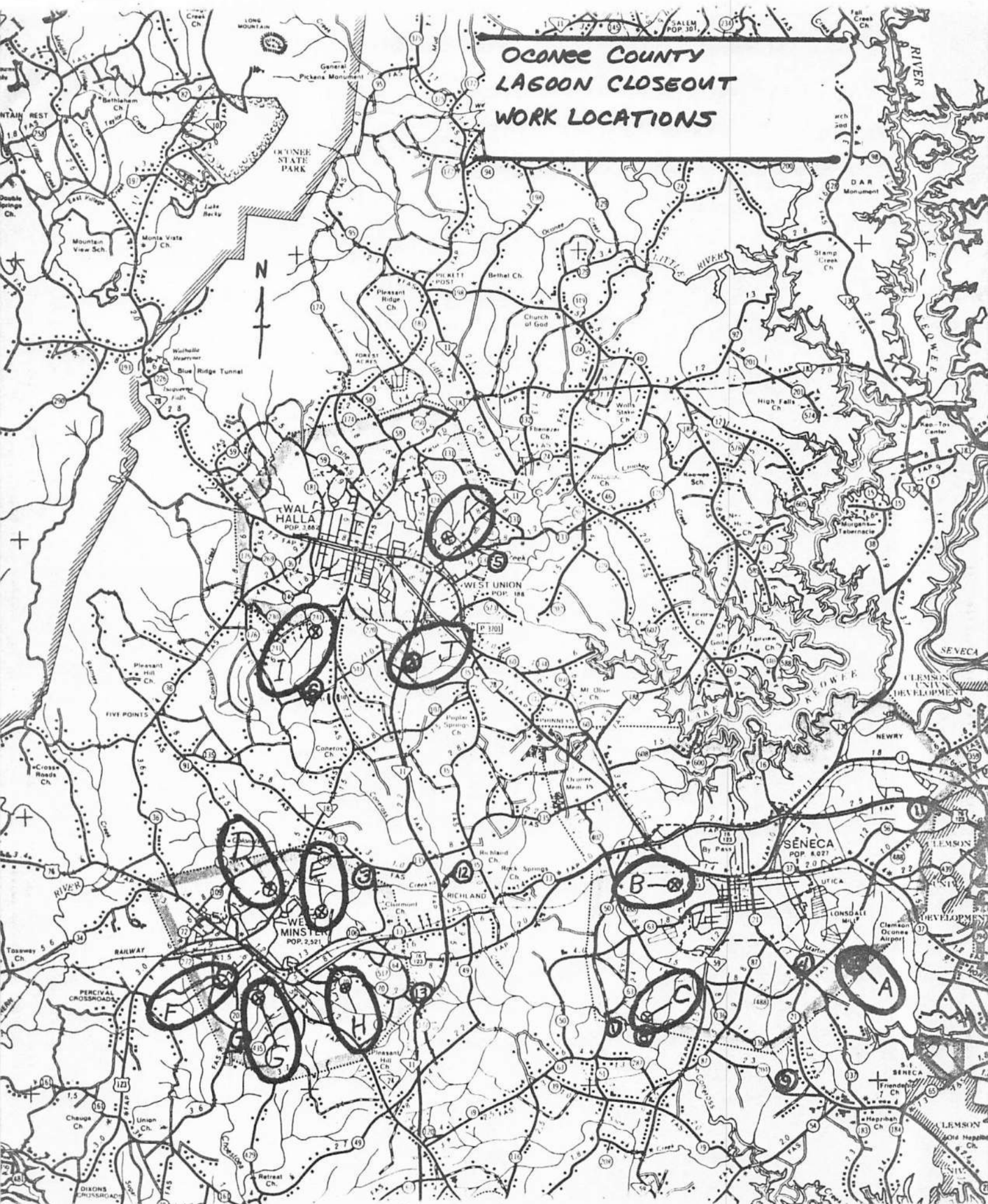


Oconee County Sewer Commission

Route 6, Box 525 • Seneca, South Carolina 29678

INVITATION TO BID - LAGOON CLOSEOUT

Oconee County invites all qualified bidders to submit sealed bids for the accomplishment of the following work: LAGOON CLOSEOUT - Cover sludge remaining in drained sewage lagoons with two feet of uncompacted earth. Leave each lagoon sloped in such a manner that free drainage will occur. Fill material to be obtained on site. Combined area of the nine lagoons is about 40 acres. Work is to be accomplished prior to December 1, 1980. Also included in the work is the demolition and filling of two concrete sewage treatment structures - one septic tank and one Imhoff tank. Specifications and additional information on the project may be obtained by contacting the offices of the Oconee County Sewer Commission, Route 6 Box 525, Seneca, SC, 29678; phone (803) 882-8097. A meeting with all interested contractors will be held beginning at 10:00 AM, 15 September 1980, at the offices of the Sewer Commission, secondary road 63 at Coneross Creek, to answer any questions about the project and inspect the work sites. Bids will be accepted until 2:00 PM on Wednesday, 17 September, 1980, at which time such bids will be publicly opened at the office of the County Purchasing Agent, W. Main St., Walhalla, SC. The lowest responsible bidder will be awarded the contract unless, in the opinion of the County, it is in the best interests of the County to award the contract to another party. The County reserves the right to reject any or all bids. Bids should be sent to "LAGOON CLOSEOUT, Oconee County Purchasing Department, County Mail Room, Walhalla, SC, 29691". The statement "Bid enclosed - do not open" should be prominently displayed on the bid envelope.



- A. Martin's Creek Lagoons - 10.35 acres - Fill to be obtained on site from hillside.
- B. Upper Perkin's Creek Lagoon - 9.84 acres - Fill to be obtained on site from hillside
- C. Lower Perkin's Creek Lagoon - 6.06 acres - Fill to be obtained as directed by the City.
- D. North Westminster Lagoon - 6 acres - Fill to be obtained from slope adjacent to lagoon.
- E. Westminster Beacon Lagoon - 0.9 acres - Fill to be obtained on site from hillside.
- F. Westminster Septic Tank - 30' x 40' x 12' (Approx. dimensions)
- G. Westminster Imhoff Tank - 30' x 20' x 15' (Approx. dimensions)
- H. Seed Farm Road Lagoon - 4.3 acres - Fill to be obtained on site.
- I. Flat Rock Lagoon - 0.58 acres - Fill to be obtained from lagoon dykes.
- J. East Fork Lagoon - 0.52 acres - Fill to be obtained from lagoon dykes.
- K. Walhalla Sangamo Lagoon - 0.99 acres - Fill to be obtained from lagoon dykes.

INSTRUCTIONS TO BIDDERS

1. BID RECEIPT AND OPENING.

Oconee County will accept sealed bids to accomplish the work described herein in accordance with the attached "Invitation to Bid - Lagoon Closeout"

2. FORM OF BID.

Bids should be typewritten on official company letterhead and should state the total cost to the County for the accomplishment of all work and other conditions described herein. Bids must be signed by the principal company official (Owner, president, chairman of the Board, etc.) and such signature should be witnessed. All bidders must be licensed contractors in the state of South Carolina. Bid will be a lump sum.

3. SUBCONTRACTS.

Any subcontractor employed by the successful bidder must meet all applicable sections of these documents. The subcontracting of any work will not release the successful bidder from his responsibilities to accomplish all work in accordance with the plans and specifications. Subcontractors must be approved by Oconee County.

4. TIME TO COMPLETE WORK.

Bidder must agree to commence work on or before 1 October 1980. Bidder guarantees that sufficient resources will be allocated to the job to:

1. Complete work on any lagoon of his choice within two weeks of his commencing work;
2. To have 50% of the work (as measured by acres covered) accomplished by 1 November 1980;
3. To have the work completely finished by 1 December 1980.

5. NOTICE OF SPECIAL CONDITIONS.

This project is expected to be funded in part or in whole with U.S. Government Revenue Sharing Funds. Contractors bidding will comply with wage rate and other provisions of the Davis-Bacon Act and will carry workman's compensation insurance and public liability insurance as required by law.

6. LAWS AND REGULATIONS.

All applicable Federal, State, County and Municipal laws, regulations or ordinances as well as rules and regulations of all other authorities having jurisdiction over such projects shall apply and will be considered as a part of the conditions of the contract the same as if they were herein written. The contractor is responsible to obtain any licenses or permits required for the accomplishment of the project.

7. OBLIGATION OF THE BIDDER.

At bid opening, it will be agreed that all bidders have inspected all job sites and these specifications and contract documents and will have satisfied themselves concerning their contents. The failure of any bidder to have examined anything relevant to the project will in no way relieve the bidder of his responsibilities regarding his bid. Bids may not be withdrawn for 45 days after bid opening date.

CONDITIONS, PLANS AND SPECIFICATIONS

In addition to provisions found in the Instructions to Bidder, the following will apply.

1. CONTRACTOR RESPONSIBILITY

Contractor assumes all responsibility for successful prosecution and completion of the project and warrants he will hold the owner blameless for any actions, claims or disputes arising from his accomplishment of the work which may not be directly attributable to actions by the owner.

2. LAGOON CLOSEOUT REQUIREMENTS

Fill dirt free from wood, stumps or rocks having any dimension greater than six inches will be used to cover the sludge and other materials found on the bottoms and banks of the lagoons. This fill will be at a minimum of two feet in uncompacted depth over the sludge. Where compaction occurs, due to equipment operation, additional fill will be applied to achieve the two foot minimum. Fill greater than the two foot minimum may be required in some areas to achieve proper drainage. Fill will be obtained first from existing lagoon dykes, from adjacent areas in town property as indicated and directed by the utilities superintendent of the respective town. Any timber removed from the borrow areas will be cut to 17 foot lengths and stacked in a location designated by the utility superintendent. All slash and other vegetation removed from the borrow site will either be completely burned and incorporated in the fill material or be removed by the contractor for other disposition he might arrange.

The end result of the fill operation will be a slightly bowl shaped depression with drainage provided to the naturally occurring drainage area adjacent to the site. All slopes on both the borrow and fill areas will be as gradual as is practicable and will merge gradually with the existing landscape.

Drainage from the closed lagoon will be through an opening in the dyke or its remains of at least 40 feet in width sloped from the lagoon to the existing drainage area at a 2% slope and being essentially level in the direction 90 degrees from the direction of the slope. Such controlled slope should be prepared on a 70 foot radius from the center of the opening inside and outside of the lagoon dyke crest. The entire drainage opening area and controlled slope area should be planted immediately upon establishment as follows:

Total area to be grassed is 9 sites x 70' radius circle + 2 sites (Imhoff tank and septic tank) x 25' radius circle = 3.3 acres.

a. The seed bed will be prepared and planted in accordance with local soil conservation district recommendations, to include 1½ ton/acre agricultural grade lime incorporated in the seed bed, 1000 lb/acre 10-10-10 fertilizer to be incorporated in the seed bed, seed to be applied at the following rate:

8 lbs rye (annual), 40 lbs Kentucky 31 fescue, 60 lbs unscarified sericea lespedeza per acre.

Seed shall be certified at 90% or better purity and having 80% or better germination in conformance with State law.

b. After seed is scattered and covered, 2 tons straw mulch per acre will be placed over the seed beds.

Completion of the work will find the entire area left smooth and free from low places and ruts which would trap water. All equipment and project related garbage and debris will be removed from the site and properly disposed of. Any fence material found on the site will be removed by the contractor and properly disposed of.

2025 8 9

3. IMHOFF TANK AND SEPTIC TANK CLOSEOUT REQUIREMENTS.

Walls of the structures will be demolished to prevent water accumulation in the structure. The entire lower wall of each structure should be demolished and deposited within the structure. All concrete two feet from final grade and above should be demolished and deposited within the structure. The entire structure will be filled with dirt obtained from other Westminster sites and the surface of the fill should be level with existing land surfaces. The fill surface should be smoothed and slightly sloped to permit ready drainage. Cleanup should be as specified in Lagoon Closeout Requirements. Grassing will be as specified in Lagoon Closeout Requirements except the grassed area will be a 25' radius structure (approx) to include the entire filled structure.

4. TERMINATION.

Oconee County reserves the right to terminate this contract if it appears that the contractor is not making a good faith effort to complete the work or if scheduled suspense dates are not met due to failure of the contractor to allocate sufficient men and machinery to the project. Termination notification will come in the form of a certified letter from the office of the Supervisor of Oconee County. If termination is required, no additional payment to the contractor will be made beyond those made prior to the date of termination.

5. PAYMENT.

Payment will be made to the contractor upon his written request in accordance with the following schedule:

As measured by acres satisfactorily covered:

- a. 40% of the total bid payment may be requested when 50% of the work has been covered.
- b. An additional 20% of the total bid payment may be requested when 75% of work has been covered.
- c. The remaining 40% of the total bid will be paid when the work is finally accepted and written certifications of acceptance are delivered to the office of the Supervisor of Oconee County from the utility superintendents of Seneca, Walhalla, and Westminster.

South Carolina Department of Health and Environmental Control

NOV 9 1981

4262

BOARD

William M. Wilson, Chairman
J. Lorin Mason, Jr., M.D., Vice-Chairman
I. DeQuincey Newman, Secretary
Leonard W. Douglas, M.D.
George G. Graham, D.D.S.
Michael W. Mims
Barbara P. Nuessle

COMMISSIONER

Robert S. Jackson, M.D.
2600 Bull Street
Columbia, S. C. 29201

Environmental Quality Control Office
P. O. Box 1906, 220 McGee Road
Anderson, S. C. 29622
Telephone: 225-3731, Ext. 211

November 5, 1981

Mr. Jerry Balding
Seneca Light & Water
P. O. Box 773
Seneca, S. C. 29678

Re: Lagoon Close-outs
Town of Seneca
Oconee County

Dear Jerry,

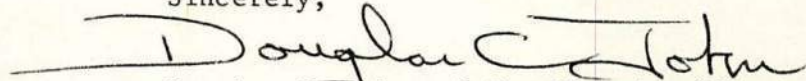
An inspection of the three (3) closed Town of Seneca lagoon sites was conducted on October 29, 1981 with assistance from Mr. Steve Geddes. The following is a summary of discrepancies and/or corrections required:

- 1) Upper Perkins - Severe ponding of surface water. Entire surface requires final grading to ensure water runoff.
- 2) Martins Creek - Ponding of water over many areas of the site. Proper drainage must be attained.
- 3) Lower Perkins - Good condition
No additional work required.

These items should be completed by December 1, 1981.

Thanks for your cooperation.

Sincerely,



Douglas A. Johns, P.E., District Director
Appalachia I District

DCJ:bd

cc: Bob King
Steve Geddes ✓
Steve Thomas

South Carolina Department of Health and Environmental Control

BOARD
William M. Wilson, Chairman
J. Lorin Mason, Jr., M.D., Vice-Chairman
I. DeQuincey Newman, Secretary
Leonard W. Douglas, M.D.
George G. Graham, D.D.S.
Michael W. Mims
Barbara P. Nuessle

COMMISSIONER
Robert S. Jackson, M.D.
2600 Bull Street
Columbia, S. C. 29201

Environmental Quality Control Office
P. O. Box 1906, 220 McGee Road
Anderson, S. C. 29622
Telephone: 225-3731, Ext. 211

December 30, 1981

Mr. Jerry Balding
Seneca Light & Water
P. O. Box 773
Seneca, S. C. 29678

Re: Wastewater Facility Close-out
Town of Seneca
Oconee County

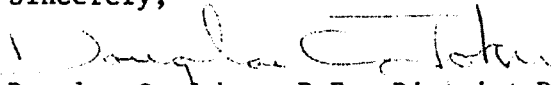
Dear Mr. Balding:

On December 29, 1981 a follow-up inspection was conducted of the three (3) closed Town of Seneca wastewater treatment facilities. The inspection was conducted with the presence of Mr. Steve Geddes, Oconee County Sewer Commission and Mr. Mike Sanders of Thrift Brothers. All three lagoons have now been properly closed and meet the requirements of South Carolina Department of Health and Environmental Control Regulation 61-82; Proper Close-out of Wastewater Treatment Facilities.

This office recommends that any immediate future use of the lagoons' surface area be seriously evaluated prior to any facility construction. Some future settlement might possibly occur due to the consistency of the underlying sludge layer, however, settlements should pose no health oriented problems.

This office appreciates the cooperation of the Town of Seneca and Oconee County shown during this endeavor.

Sincerely,


Douglas C. Johns, P.E., District Director
Appalachia I District

DCJ:bd

cc: Steve Thomas
Bob King
Steve Geddes ✓
Mike Sanders