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D. Billye Sanders
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July 11, 2008

VIA HAND DELIVERY

Tre Hargett, Chairman
Tennessee Regulatory Authority
460 James Robertson Parkway
Nashville, Tennessee 37219

filed electronically in docket office on 07/15/08

Re: Petition of Cartwright Creek, LLC To Amend Its Existing CCN
To Provide Service To The Stillwater Development In
Williamson County
Docket No. 07-00180
Modified State Operating Permit for Cartwright Creek, LLC-
Stillwater Resource Conservation Development

Dear Chairman Hargett:

Enclosed you will find a copy of the modified State Operating Permit issued by the Tennessee Department of Environment and Conservation ("TDEC") and Cartwright Creek's application to TDEC seeking the modification. The modification involves a change in the site of the proposed wastewater treatment system from a site northwest of the Stillwater Development to a site in the southeast corner of the development as indicated by the change of the latitude and longitude references on page 1 of the permit. The original latitude and longitude references were "latitude 35.841 and longitude -86.6816 in Williamson County, Tennessee." The modified references are "latitude 35.813854 and longitude -86.675622 in Williamson County, Tennessee."

While it is our opinion that this amendment does not affect Cartwright Creek's Certificate of Convenience of Necessity ("CCN"), the Williamson County Planning Staff has asked Cartwright Creek to obtain a letter from the TRA indicating that this amendment to the State Operating Permit does not affect the CCN that was granted in this docket to serve the Stillwater Development in

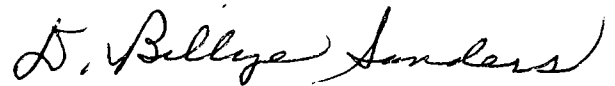
July 15, 2008

Page 2

Williamson County. We therefore respectfully request a reply letter from the TRA confirming that the modification of the State Operating Permit does not affect the CCN.

Please let me know if you have any questions or need any additional information.

Sincerely,

A handwritten signature in cursive script that reads "D. Billye Sanders".

D. Billye Sanders
Attorney for Cartwright Creek,
LLC

cc: Bruce Meyer, Cartwright Creek, LLC
Ron L. Graham, TRA



STATE OF TENNESSEE
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
401 CHURCH STREET
L & C ANNEX 6TH FLOOR
NASHVILLE TN 37243-1534
July 8, 2008

Mr. Bruce Meyer,
Regional Manager
Cartwright Creek, LLC
1551 Thompson's Station Road West
Thompson Station, TN 37179

Subject: **Modified SOP Permit Tracking No. SOP-07090**
Cartwright Creek, LLC - Stillwater Resource Conservation Development
WWTP
Williamson County, Tennessee

Dear Mr. Meyer:

In accordance with the provisions of "The Tennessee Water Quality Control Act" (Tennessee Code Annotated, Sections 69-3-101 through 69-3-120) your SOP Permit is hereby modified by the Division of Water Pollution Control. The continuance and/or reissuance of this SOP Permit is contingent upon your meeting the conditions and requirements as stated therein.

You have the right to appeal any of the provisions established in this SOP Permit, in accordance with Tennessee Code Annotated, Section 69-3-110, and the General Regulations of the Tennessee Water Quality Control Board. If you elect to appeal, you should file a petition within thirty (30) days of the receipt of this permit.

If you have questions, please contact the Division of Water Pollution Control at your local Environmental Assistance Center at 1-888-891-TDEC; or, at this office, please contact Mr. Hari Akunuri at (615) 532-0650 or by E-mail at Hari.Akunuri@state.tn.us.

Sincerely,

A handwritten signature in black ink, appearing to read "V. Janjic", is written over the typed name.

Mr. Vojin Janjić
Manager, Permit Section
Division of Water Pollution Control

Enclosure

cc: Division of Water Pollution Control, Permit Section
Division of Water Pollution Control, Nashville Environmental Field Office
Mr. Ron L. Graham, Tennessee Regulatory Authority, 460 James Robertson Parkway, Nashville, TN 37243

**TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF WATER POLLUTION CONTROL**

**6th Floor, L & C Annex
401 Church Street
Nashville, TN 37243-1534**

Permit No. SOP-07090

**PERMIT
For the operation of Wastewater Treatment Facilities**

In accordance with the provision of Tennessee Code Annotated section 69-3-108 and Regulations promulgated pursuant thereto:

PERMISSION IS HEREBY GRANTED TO

**Cartwright Creek, LLC - Stillwater Resource Conservation Development WWTP
Williamson County, Tennessee**

FOR THE OPERATION OF

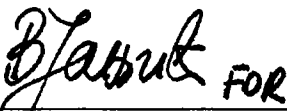
Individual E-One grinder pump units, effluent collection system, aerated lagoon, filtration, UV disinfection and fenced 15 acre drip irrigation and/or golf course irrigation system located at latitude 35.813854 and longitude -86.675622 in Williamson County, Tennessee to serve 495 homes and a club house restaurant in the Stillwater Resource Conservation Development WWTP. The design capacity of the system is .152 MGD.

This permit is issued as a result of the application filed on December 4, 2007, in the office of the Tennessee Division of Water Pollution Control and in conformity with approved plans, specifications and other data submitted to the Department in support of the above application, all of which are filed with and considered as a part of this permit, together with the following named conditions and requirements.

This permit shall become effective on: May 1, 2008

This permit shall expire on: March 31, 2013

Issuance date: March 31, 2008



**Paul E. Davis
Director
Division of Water Pollution Control**

CN-0759

RDAs 2352 & 2366

PART I

A. GENERAL REQUIREMENTS

The treatment system shall be monitored by the permittee as specified below:

<u>Parameter</u>	<u>Sample Type</u>	<u>Daily Maximum</u>	<u>Sampling Point</u>	<u>Measurement Frequency</u>
Flow	Totalizer		*	Daily
BOD ₅	grab	45 mg/l	*	1/ 2 months
Nitrate as N	grab	16 mg/l	*	1/ 2 months
Ammonia as N	grab	Report	*	1/ 2 months

The drip fields must be fenced. A minimum chain link or 4' woven wire fence must be used.

The following shall apply to the discharge to a golf course:

<u>Parameter</u>	<u>Sample Type</u>	<u>Daily Maximum</u>	<u>Sampling Point</u>	<u>Measurement Frequency</u>
Flow	Totalizer ¹		*	Daily
CBOD ₅	composite	10 mg/l	*	3/week
TSS	composite	10 mg/l	*	3/week
Nitrate as N	composite	16 mg/l	*	3/week
Ammonia as N	composite	Report	*	3/week
<i>E. Coli</i>	grab	23 colonies/100 ml	*	3/week

¹ Total daily flow to the golf course holding pond and/or golf course shall be measured using a flow totalizer.

* Effluent to the drip irrigation plots or golf course reuse system.

This permit allows the operation of a wastewater drip irrigation system. The operation should be such that there is no contamination of and no wastewater discharge to any surface or subsurface stream because of collected pools of water called "ponding", irrigation into karst features or because of improper irrigation. Any runoff due to improper operation must be reported in writing to the Division of Water Pollution Control, Nashville Environmental Field Office within 5 days

of the incident. In addition, the drip irrigation system must be operated in a manner preventing the creation of a public health hazard or a public/private nuisance.

B. MONITORING PROCEDURES

1. Representative Sampling

Samples and measurements taken in compliance with the monitoring requirements specified above shall be representative of the volume and nature of the monitored discharge, and shall be taken at the following location(s):

Effluent to drip irrigation plots.

C. DEFINITIONS

The "daily maximum concentration" is a limitation on the average concentration, in milligrams per liter, of the discharge during any calendar day.

A "grab sample" is a single influent or effluent sample collected at a particular time.

A "quarter" is defined as any one of the following three-month periods: January 1 through March 31, April 1 through June 30, July 1 through September 30, and/or October 1 through December 31.

D. REPORTING

1. Monitoring Results

Monitoring results shall be recorded monthly and submitted quarterly. Submittals shall be postmarked no later than 15 days after the completion of the reporting period. A copy should be retained for the permittee's files. Operation reports and any communication regarding compliance with the conditions of this permit must be sent to:

Division of Water Pollution Control
Nashville Environmental Field Office
711 R.S. Gass Boulevard
Nashville, TN 37243

The first operation report is due on the 15th of the month following permit effectiveness

2. Additional Monitoring by Permittee

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit, using approved analytical methods as specified in 1200-4-5-.07(4)(h)2,

the results of such monitoring shall be included in the calculation and reporting of the values required in the Quarterly Operation Report. Such increased frequency shall also be indicated.

3. Falsifying Reports

Knowingly making any false statement on any report required by this permit may result in the imposition of criminal penalties as provided for in Section 69-3-115 of the Tennessee Water Quality Control Act.

E. SCHEDULE OF COMPLIANCE

Full operational level shall be attained from the effective date of this permit.

PART II

A. GENERAL PROVISIONS

1. Duty to Reapply

The permittee is not authorized to discharge after the expiration date of this permit. In order to receive authorization to discharge beyond the expiration date, the permittee shall submit such information and forms as are required to the Director of Water Pollution Control (the "Director") no later than 180 days prior to the expiration date.

2. Right of Entry

The permittee shall allow the Director, or authorized representatives, upon the presentation of credentials:

- a. To enter upon the permittee's premises where an effluent source is located or where records are required to be kept under the terms and conditions of this permit, and at reasonable times to copy these records;
- b. To inspect at reasonable times any monitoring equipment or method or any collection, treatment, pollution management, or discharge facilities required under this permit; and
- c. To sample at reasonable times any discharge of pollutants.

3. Availability of Reports

All reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Division of Water Pollution Control.

4. Proper Operation and Maintenance

The permittee shall at all times properly operate and maintain all facilities and systems (and related appurtenances) for collection and treatment which are installed or used by the permittee to achieve compliance with the terms and conditions of this permit. Proper operation and maintenance also includes adequate laboratory and process controls and appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of the permit. Backup continuous pH and flow monitoring equipment are not required.

The monitoring frequency stated in this permit shall not be construed as specifying a minimum level of operator attention to the facility. It is anticipated that visits to the treatment

facility by the operator will occur at intervals frequent enough to assure proper operation and maintenance, but in no case less than one visit per month. If discharge monitoring reports, WPC inspection reports, or other information indicates a problem with the facility, the permittee may be subject to enforcement action and/or the permit may be modified to include increased parameter monitoring, increased monitoring frequency or other requirements as deemed necessary by the division to correct the problem. The permittee shall ensure that the certified operator is in responsible charge of the facility and observes the operation of the system frequently enough to ensure its proper operation and maintenance regardless of the effluent monitoring frequency stated in the permit."

- b. Dilution water shall not be added to comply with effluent requirements

5. Property Rights

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State, or local laws or regulations.

6. Severability

The provisions of this permit are severable. If any provision of this permit due to any circumstance, is held invalid, then the application of such provision to other circumstances and to the remainder of this permit shall not be affected thereby.

7. Other Information

If the permittee becomes aware that he failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Director, then he shall promptly submit such facts or information.

B. CHANGES AFFECTING THE PERMIT

1. Planned Changes

The permittee shall give notice to the Director as soon as possible of any planned physical alterations or additions to the permitted facility.

2. Permit Modification, Revocation, or Termination

- a. This permit may be modified, revoked and reissued, or terminated for cause as described in section 69-108-(F) The Tennessee Water Quality Control Act as amended.

- b. The permittee shall furnish to the Director, within a reasonable time, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit.

The permittee shall also furnish to the Director, upon request, copies of records required to be kept by this permit.

3. Change of Ownership

This permit may be transferred to another person by the permittee if:

- a. The permittee notifies the Director of the proposed transfer at least 30 days in advance of the proposed transfer date;
- b. The notice includes a written agreement between the existing and new permittees containing a specified date for transfer of permit responsibility, coverage, and liability between them; and
- c. The Director, within 30 days, does not notify the current permittee and the new permittee of his intent to modify, revoke or reissue, or terminate the permit and to require that a new application be filed rather than agreeing to the transfer of the permit.

4. Change of Mailing Address

The permittee shall promptly provide to the Director written notice of any change of mailing address. In the absence of such notice the original address of the permittee will be assumed to be correct.

C. NONCOMPLIANCE

1. Effect of Noncompliance

Any permit noncompliance constitutes a violation of applicable State laws and is grounds for enforcement action, permit termination, permit modification, or denial of permit reissuance.

2. Reporting of Noncompliance

a. 24-Hour Reporting

In the case of any noncompliance which could cause a threat to public drinking supplies, or any other discharge which could constitute a threat to human health or the environment, the required notice of non-compliance shall be provided to the appropriate Division environmental assistance center within 24 hours from the time the permittee becomes aware of the circumstances. (The environmental field office should be contacted for names and phone numbers of emergency response personnel.)

A written submission must be provided within five days of the time the permittee becomes aware of the circumstances unless this requirement is waived by the Director on a case-by-case basis. The permittee shall provide the Director with the following information:

- i. A description of the discharge and cause of noncompliance;
- ii. The period of noncompliance, including exact dates and times or, if not corrected, the anticipated time the noncompliance is expected to continue; and
- iii. The steps being taken to reduce, eliminate, and prevent recurrence of the non complying discharge.

b. Scheduled Reporting

For instances of noncompliance which are not reported under subparagraph 2.a. above, the permittee shall report the noncompliance on the Quarterly Operation Report. The report shall contain all information concerning the steps taken, or planned, to reduce, eliminate, and prevent recurrence of the violation and the anticipated time the violation is expected to continue.

3. Overflow

- a. "**Overflow**" means the discharge to land or water of wastes from any portion of the collection, transmission, or treatment system other than through permitted outfalls.
- b. Overflows are prohibited.
- c. The permittee shall operate the collection system so as to avoid overflows. No new or additional flows shall be added upstream of any point in the collection system, which experiences chronic overflows (greater than 5 events per year) or would otherwise overload any portion of the system.
- d. Unless there is specific enforcement action to the contrary, the permittee is relieved of this requirement after: 1) an authorized representative of the Commissioner of the Department of Environment and Conservation has approved an engineering report and construction plans and specifications prepared in accordance with accepted engineering practices for correction of the problem; 2) the correction work is underway; and 3) the cumulative, peak-design, flows potentially added from new connections and line extensions upstream of any chronic overflow point are less than or proportional to the amount of inflow and infiltration removal documented upstream of that point. The inflow and infiltration reduction must be measured by the permittee using practices that are customary in the environmental engineering field and reported in an attachment to a Monthly Operating Report submitted to the local TDEC Environmental Field Office. The data measurement period shall be sufficient to account for seasonal rainfall patterns and seasonal groundwater table elevations.
- e. In the event that more than 5 overflows have occurred from a single point in the collection system for reasons that may not warrant the self-imposed moratorium or completion of the actions identified in this paragraph, the permittee may request a meeting with the Division of Water Pollution Control EFC staff to petition for a waiver based on mitigating evidence.

4. Upset

- a. **"Upset"** means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.
- b. An upset shall constitute an affirmative defense to an action brought for noncompliance with such technology-based permit effluent limitations if the permittee demonstrates, through properly signed, contemporaneous operating logs, or other relevant evidence that:
 - i. An upset occurred and that the permittee can identify the cause(s) of the upset;
 - ii. The permitted facility was at the time being operated in a prudent and workman-like manner and in compliance with proper operation and maintenance procedures;
 - iii. The permittee submitted information required under "Reporting of Noncompliance" within 24-hours of becoming aware of the upset (if this information is provided orally, a written submission must be provided within five days); and
 - iv. The permittee complied with any remedial measures required under "Adverse Impact."

5. Adverse Impact

The permittee shall take all reasonable steps to minimize any adverse impact to the waters of Tennessee resulting from noncompliance with this permit, including such accelerated or additional monitoring as necessary to determine the nature and impact of the noncomplying discharge. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

6. Bypass

- a. **"Bypass"** is the intentional diversion of wastewater away from any portion of a treatment facility. **"Severe property damage"** means substantial physical damage to property, damage to the treatment facilities which would cause them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.
- b. Bypasses are prohibited unless all of the following 3 conditions are met:
 - i. The bypass is unavoidable to prevent loss of life, personal injury, or severe property damage;

ii. There are no feasible alternatives to bypass, such as the construction and use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass, which occurred during normal periods of equipment downtime or preventative maintenance;

iii. The permittee submits notice of an unanticipated bypass to the Division of Water Pollution Control in the appropriate Environmental Field Office within 24 hours of becoming aware of the bypass (if this information is provided orally, a written submission must be provided within five days). When the need for the bypass is foreseeable, prior notification shall be submitted to the director, if possible, at least 10 days before the date of the bypass.

c. Bypasses not exceeding permit limitations are allowed **only** if the bypass is necessary for essential maintenance to assure efficient operation. All other bypasses are prohibited. Allowable bypasses not exceeding limitations are not subject to the reporting requirements of 6.b.iii, above.

7. Washout

a. For domestic wastewater plants only, a "washout" shall be defined as loss of Mixed Liquor Suspended Solids (MLSS) of 30.00% or more. This refers to the MLSS in the aeration basin(s) only. This does not include MLSS decrease due to solids wasting to the sludge disposal system. A washout can be caused by improper operation or from peak flows due to infiltration and inflow.

b. A washout is prohibited. If a washout occurs the permittee must report the incident to the Division of Water Pollution Control in the appropriate Environmental Field Office within 24 hours by telephone. A written submission must be provided within five days. The washout must be noted on the discharge monitoring report. Each day of a washout is a separate violation.

D. LIABILITIES

1. Civil and Criminal Liability

Nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance. Notwithstanding this permit, the permittee shall remain liable for any damages sustained by the State of Tennessee, including but not limited to fish kills and losses of aquatic life and/or wildlife, as a result of the discharge of wastewater to any surface or subsurface waters. Additionally, notwithstanding this Permit, it shall be the responsibility of the permittee to conduct its wastewater treatment and/or discharge activities in a manner such that public or private nuisances or health hazards will not be created.

2. Liability Under State Law

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable State law.

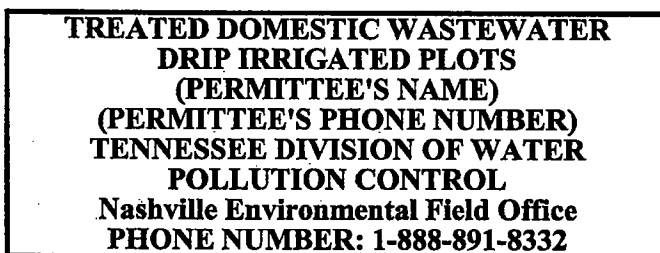
PART III OTHER REQUIREMENTS

A. CERTIFIED OPERATOR

The waste treatment facilities shall be operated under the supervision of a Biological Natural System operator and the collection system operated under the supervision of a Grade I Collection System certified operator in accordance with the Water Environmental Health Act of 1984.

B. PLACEMENT OF SIGNS

The permittee shall place a sign at all approaches to the drip irrigation lot. The sign should be clearly visible to the public. The minimum sign size should be two feet by two feet (2' x 2') with one inch (1") letters. The sign should be made of durable material and have a white background with black letters.



No later than sixty (60) days from the effective date of the permit, the permittee shall have the above sign(s) on display in the location specified.

C. ADDITION OF WASTE LOADS

The permittee may not add wasteloads to the existing treatment system without the knowledge and approval of the division.

D. SEPTAGE MANAGEMENT PRACTICES

The permittee must comply with the provisions of 40 CFR Part 503. If the septage is transported to another POTW for disposal, the permittee shall note the amount of septage wasted in gallons, % solids of septage wasted and the name of the facility to which the septage was taken on the monthly operation report. Sludge or any other material removed by any treatment works must be disposed of in a manner which prevents its entrance into or pollution of any surface or subsurface waters. Additionally, the disposal of such sludge or other material must be in compliance with

the Tennessee Solid Waste Disposal Act, TCA 68-31-101 et seq. and Tennessee Hazardous Waste Management Act, TCA 68-46-101 et seq.

E. DRIP SITE MANAGEMENT

The drip irrigation system must have appropriate site management practices to ensure that the nitrogen design assumptions will be achieved. The cover crop must be able to uptake the prescribed amount of nitrogen (50 lbs/acre/year). This requirement shall not be construed to warrant any use of the harvested product and the permittee shall assume full responsibility for its proper use or disposal.

G. OWNERSHIP OF THE TREATMENT FACILITIES

a. The permittee shall own the treatment facilities (and the land upon which they are constructed) including the land to be utilized for drip or spray irrigation. A perpetual easement (properly recorded) may be accepted in lieu of ownership. If the permittee elects to make the treated wastewater available for reuse (irrigation of a golf course for example) a backup dedicated land application site must be provided or a perpetual easement must be obtained for the property where reuse is to take place. The perpetual easement must allow year-round application of the wastewater except where the permittee has provided (and the division has approved) storage facilities for periods when reuse is not available. Evidence of ownership of the treatment facility land application site(s) and/or a copy of the perpetual easement(s) must be furnished to the division for approval prior to construction of the wastewater collection and treatment system.

b. Where the treatment facility serves private homes, condominiums, apartments, retirement homes, nursing homes, trailer parks, or any other place where the individuals being served have property ownership, rental agreements, or other agreements that would prevent their being displaced in the event of abandonment or noncompliance of the sewerage system, ownership of the treatment facilities must be by a municipality, a public utility, a wastewater authority, or a privately owned public utility (having a Certificate of Convenience and Necessity from the Tennessee Regulatory Authority), or another public agency.



P.O. Box 147
1551 Thompson's Station Road West
Thompson's Station, TN 37179

Phone: (615) 261-8600
Fax: (615) 261-8613
www.sheafferinternational.com

June 30, 2008

Tennessee Department of Environment and Conservation
Mr. Michael Thornton
Nashville Environmental Field Office
711 R.S. Gass Blvd
Nashville, TN 37243

Subject: Permit Modification for State Operating Permit SOP-07090
Cartwright Creek, LLC and Stillwater Development

Dear Mr. Thornton,

Attached for your review and approval, please find one original and two copies of the application forms for Cartwright Creek's Permit Modification for SOP-07090 for the Stillwater Development in Williamson County.

The attachments cover relocation of the treatment site within the Stillwater Development, as previously discussed with you and central office staff members. Based upon these discussions, this relocation represents a minor modification to the existing SOP.

Also attached are the revised pages of the previously submitted Engineering Report and copies of Sheets 10 and 12 of the Plans and Specifications submittal.

Please contact me if you have any questions.

Sincerely,

Bruce E. Meyer
Sheaffer International, LLC
Managers of Cartwright Creek, LLC

Copies: Jim Sutherland, TDEC



Tennessee Department of Environment and Conservation
Division of Water Pollution Control
401 Church Street, 6th Floor L & C Annex
Nashville, TN 37243-1534
(615) 532-0625

APPLICATION FOR A STATE OPERATION PERMIT (SOP)

Type of application: ☐ New Permit ☐ Permit Reissuance ☒ Permit Modification

Permittee Identification: (Name of city, town, industry, corporation, individual, etc., applying, according to the provisions of Tennessee Code Annotated, Section 69-3-108 and Regulations of the Tennessee Water Quality Control Board.)

Permittee Name
(applicant): **Cartwright Creek, LLC**

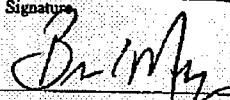
Permittee Address: **800 Roosevelt Road, Suite B214
Glen Ellyn, IL 60137**

Official Contact: Mr. Bruce Meyer	Title or Position: V.P. of Operations		
Mailing Address: 1551 Thompson's Station Road West	City: Thompson's Station	State: TN	Zip: 37179
Phone number(s): (615) 261-8600	E-mail: bmeyer@sheafferinternational.com		

Optional Contact: Mr. Robert Cochrane	Title or Position: Chief Financial Officer		
Address: 800 Roosevelt Road, Suite B241	City: Glen Ellyn	State: IL	Zip: 60137
Phone number(s): 630-446-4080	E-mail: rcochrane@sheafferinternational.com		

Application Certification (must be signed in accordance with the requirements of Rule 1200-4-5-.05)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name and title, print or type Bruce E. Meyer, VP of Operations	Signature 	Date 6/30/08
--	---	------------------------

Permit Number: SOP-_____

Facility Identification:		Existing Permit No.	SOP-07090
Facility Name: Stillwater Resource Conservation Development WWTP		County:	Williamson
Facility Address or Location: 743 acres located Southwest on Patton Rd. and Horton Hwy. intersection in Williamson County, TN		Latitude:	35.813854
		Longitude:	86.675622
Name and distance to nearest receiving waters: Harpeth River @ RM 109.1, Approx. 1400'			
If any other State or Federal Water/Wastewater Permits have been obtained for this site, list their permit numbers: N/A			
Name of company or governmental entity that will operate the permitted system: Cartwright Creek, LLC			
Operator address: 800 Roosevelt Road, Suite B214, Glen Ellyn, IL 60137			
Has the owner/operator filed for a Certificate of Convenience & Necessity (CCN), or an amended CCN, with the Tennessee Regulatory Authority (TRA) (may be required for collection systems and land application treatment systems)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
If the applicant listed above does not yet own the facility/site or if the applicant will not be the operator, explain how and when the ownership will be transferred or describe the contractual arrangement and renewal terms of the contract for operations. Cartwright Creek and the Developer, Eagle Ridge Investments, LLC, have a signed agreement. The Developer will construct the treatment facility and collection system. When construction is certified complete by the Developer's engineer, the treatment and collection systems will be deeded to Cartwright Creek. Cartwright Creek will own and operate the treatment facility in accordance with TDEC, County and TRA requirements.			
Complete the following information explaining the entity type, number of design units, and daily design wastewater flow:			
<u>Entity Type</u>	<u>Number of Design Units</u>		<u>Flow (gpd)</u>
<input type="checkbox"/> City, town or county	No. of connections:		
<input checked="" type="checkbox"/> Subdivision	No. of homes: 495	Avg. No. bedrooms per home: 4	149,000
<input type="checkbox"/> School	No. of students:	Size of cafeteria(s):	
		No. of showers:	
<input type="checkbox"/> Apartment	No. of units:	No. units with Washer/Dryer hookups:	
		No. units without W/D hookups:	
<input type="checkbox"/> Commercial Business	No. of employees:	Type of business:	
<input type="checkbox"/> Industry	No. of employees:	Product(s) manufactured:	
<input type="checkbox"/> Resort	No. of units:		
<input type="checkbox"/> Camp	No. of hookups:		
<input type="checkbox"/> RV Park	No. of hookups:	No. of dump stations:	
<input type="checkbox"/> Car Wash	No. of bays:		
<input checked="" type="checkbox"/> Other	Clubhouse/Restaurant		3,000
Describe the type and frequency of activities that result in wastewater generation. Domestic sanitary sewage from residential living units and minor restaurant cooking, dishwashing, restroom flows. The flows will be from the Stillwater Development.			

(continued)

Permit Number: SOP-_____

Engineering Report (required for collection systems and/or land application treatment systems):			<input type="checkbox"/> N/A
<input checked="" type="checkbox"/> Prepared in accordance with Rule 1200-4-2-.03 and Section 1.2 of the Tennessee Design Criteria (see website for more information)			
<input type="checkbox"/> Attached, or			
<input checked="" type="checkbox"/> Previously submitted and entitled: Eng. Report and Design Devel Report		Approved? <input checked="" type="checkbox"/> Yes. Date: _____	<input type="checkbox"/> No
Wastewater Collection System:			<input type="checkbox"/> N/A
System type (i.e., gravity, low pressure, vacuum, combination, etc.): Low pressure force main and possibly gravity sewer collection networks depending on site topography and subsurface conditions.			
System Description: Up to 495 +/- E-One grinder pump units + 45,100 LF of 2"- 6" dia. HDPE force main.			
Describe methods to prevent and respond to any bypass of treatment or discharges (i.e., power failures, equipment failures, heavy rains, etc.): Individual E-One grinder pump units are equipped with a high-level alarm to notify the home owner of system failure. The homeowner will contact Cartwright Creek for service.			
In the event of a system failure describe means of operator notification: Alarm-equipped individual grinder pump units. See above.			
List the emergency contact(s) (name/phone): Mr. Bruce Meyer, 615-261-8600			
For low-pressure systems, who is responsible for maintenance of grinder pumps and septic tanks (list all contact information)? Cartwright Creek, LLC; 800 Roosevelt Road, Suite B214, Glen Ellyn, IL 60137			
Approximate length of sewer (excluding private service lateral): 45,100 LF			
Number/hp of pump stations: 1 / Unknown		Number/hp of grinder pumps 495 / 1 hp	
Number/volume of low pressure pump tanks 495 / 32 gal.		Number/volume septic tanks 0 / N/A	
Attach a schematic of the collection system. <input checked="" type="checkbox"/> Attached			
If you are tying in to another system complete the following section, listing tie-in points to public sewer system and their location (attach additional sheets as necessary):			
<u>Tie-in Point</u>	<u>Latitude (xx.xxxx°)</u>	<u>Longitude (xx.xxxx°)</u>	
N/A	N/A	N/A	
Land Application Treatment System:			<input type="checkbox"/> N/A
Type of Land Application Treatment System: <input checked="" type="checkbox"/> Drip <input type="checkbox"/> Spray <input checked="" type="checkbox"/> Other, explain: Golf Course Reuse			
Type of treatment facility preceding land application (recirculating media filters, lagoons, other, etc.): The Sheaffer System - Aerated Lagoons, Filtration, UV Disinfection			
Attach a treatment schematic. <input checked="" type="checkbox"/> Attached			
Describe methods to prevent and respond to any bypass of treatment or discharges (i.e., power failures, equipment failures, heavy rains, etc.): Key components will have installed spares. Storage capacity meeting Williamson County requirements will be provided (approximately 40 days) within the two treatment cells/ponds.			
For land application, list: <input checked="" type="checkbox"/> Proposed acreage involved: 15 drip/110 reuse <input checked="" type="checkbox"/> Inches/week to be applied: 2.6			
Describe how access to the treatment area will be restricted if wastewater disinfection is not proposed: N/A			
Attach required additional Engineering Report Information (see website for more information)			
<input checked="" type="checkbox"/> Topographic map (1:24,000 scale presented at a six inch by six inch minimum size) showing the location of the project including GPS coordinates, latitude and longitude in decimal degrees should also be included.			
<input checked="" type="checkbox"/> Scaled layout of facility showing the following: lots, buildings, etc. being served, the wastewater collection system routes, the pretreatment system location, the proposed land application area(s), roads, property boundaries, and sensitive areas such as streams, lakes, springs, wells, wellhead protection areas, sinkholes and wetlands.			
<input checked="" type="checkbox"/> Soils information for the proposed land disposal area in the form of an extra high intensity soils map (50 foot grid stake). The soils information should include soil depth (borings to a minimum of 4 feet or refusal) and soil profile description for each soil mapped.			
<input checked="" type="checkbox"/> Topographic map of the area where the wastewater is to be land applied with no greater than two-foot contours presented at a minimum size of six inches by six inches.			
<input checked="" type="checkbox"/> Describe alternative application methods based on the following priority rating: (1) connection to a municipal/public sewer system, (2) connection to a conventional subsurface disposal system as regulated by the Division of Groundwater Protection, and/or (3) land application.			

(continued)

Permit Number: SOP-_____

Pump and Haul:	<input checked="" type="checkbox"/> N/A
Reason system cannot be served by public sewer:	
Distance to the nearest manhole where public sewer service is available:	
When sewer service will be available:	
Volume of holding tank:	gal.
Tennessee licensed septage hauler (attach copy of agreement):	
Facility accepting the septage (attach copy of acceptance letter):	
Latitude and Longitude (in decimal degrees) of approved manhole for discharge of septage:	
Describe methods to prevent and respond to any bypass of treatment or discharges (i.e., power failures, equipment failures, heavy rains, etc.):	

Holding Ponds (for non-domestic wastewater only):	<input checked="" type="checkbox"/> N/A
Pond use: <input type="checkbox"/> Recirculation <input type="checkbox"/> Sedimentation <input type="checkbox"/> Cooling <input type="checkbox"/> Other (describe):	
Describe pond use and operation:	
If the pond(s) are existing pond(s), what was the previous use?	
Have you prepared a plan to dispose of rainfall in excess of evaporation? <input type="checkbox"/> Yes <input type="checkbox"/> No	
If so, describe disposal plan:	
Is the pond ever dewatered? <input type="checkbox"/> Yes <input type="checkbox"/> No	
If so, describe the purpose for dewatering and procedures for disposal of wastewater and/or sludge:	
Is(are) the pond(s) aerated? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Volume of pond(s):	gal. Dimensions:
Is the pond lined (Note if this is a new pond system it must be lined for SOP coverage. Otherwise, you must apply for an Underground Injection Control permit)? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Describe the liner material (if soil liner is used give the compaction specifications):	
Is there an emergency overflow structure? <input type="checkbox"/> Yes <input type="checkbox"/> No	
If so, provide a design drawing of structure.	
Are monitoring wells or lysimeters installed near or around the pond(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No	
If so, provide location information and describe monitoring protocols (attach additional sheets as necessary):	

(continued)

Permit Number: SOP-_____

Mobile Wash Operations:		<input checked="" type="checkbox"/> N/A
<input type="checkbox"/> Individual Operator <input type="checkbox"/> Fleet Operation Operator		
Indicate the type of equipment, vehicle, or structure to be washed during normal operations (check all that apply): <div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> Cars <input type="checkbox"/> Trucks <input type="checkbox"/> Trailers (Interior washing of dump-trailers, or tanks, is prohibited.) <input type="checkbox"/> Other (describe): </div> <div> <input type="checkbox"/> Parking Lot(s): sq. ft. <input type="checkbox"/> Windows: sq. ft. <input type="checkbox"/> Structures (describe): </div> </div>		
Wash operations take place at (check all that apply): <div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> Car sales lot(s) <input type="checkbox"/> Private industry lot(s) <input type="checkbox"/> County(ies), list: </div> <div> <input type="checkbox"/> Public parking lot(s) <input type="checkbox"/> Private property(ies) <input type="checkbox"/> Statewide </div> </div>		
Wash equipment description: <div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> Truck mounted <input type="checkbox"/> Rinse tank size(s) (gal.): <input type="checkbox"/> Collection tank size(s) (gal.): Pressure washer: psi (rated) gpm (rated) Vacuum system manufacturer/model: </div> <div> <input type="checkbox"/> Trailer mounted <input type="checkbox"/> Mixed tanks size(s) (gal.): Number of tanks per vehicle: Pressure washer: <input type="checkbox"/> gas powered <input type="checkbox"/> electric Vacuum system capacity: inches Hg </div> </div>		
Describe any other method or system used to contain and collect wastewater:		
List the public sewer system where you are permitted or have written permission to discharge waste wash water (include a copy of the permit or permission letter):		
Are chemicals pre-mixed, prior to arriving at wash location? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Describe all soaps, detergents, or other chemicals used in the wash operation (attach additional sheets as necessary):		
Chemical name:	Manufacturer:	Primary CAS No. or Product No.

OFFICIAL STATE USE ONLY

Received Date	Permit Number SOP	Field Office	Reviewer
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APPLICATION FOR A STATE OPERATION PERMIT (SOP) INSTRUCTIONS

Purpose of this form A completed SOP application must be submitted to obtain SOP coverage. This permit is required to operate a sewage, industrial waste or other waste collection and/or treatment system that does not have a point source discharge to any surface or subsurface waters. This form must be submitted at least 180 days before starting any new activity, before an existing permit expires, or when renewing a permit.

Complete the form Type or print clearly, using black or blue ink; not markers or pencil. Answer each item or enter "N/A," for not applicable. If you need additional space, attach a separate piece of paper to the SOP application. Applicants may be required to submit engineering reports, plans and specifications. Contact the division for the applicable items, or visit the Division of Water Pollution Control world wide web site at: <http://www.state.tn.us/environment/wpc/> for more information. The application will be considered incomplete without supplying all of the required information, Engineering Reports, and an original signature.

Permittee Identification/Facility Identification Describe and locate the project, use the legal or official name of the facility or site. Provide the latitude and longitude (expressed in decimal degrees) of the center of the site, which can be located on USGS quadrangle maps. The quadrangle maps can be obtained at 1-800-USA-MAPS, or at the Census Bureau world wide web site: <http://www.census.gov/cgi-bin/gazetteer>. Attach a copy of a portion of a 7.5 minute quad map, showing location of site, with boundaries at least one mile outside the site boundaries. If business is mobile give the owner of operations' home, or business office address, and list all current areas of operation by city and county.

Wastewater Collection System These types of systems require engineering reports, refer to the website (<http://www.tdec.net/wpc/>) for more information.

Land Application Treatment System These types of systems require engineering reports, refer to the website (<http://www.tdec.net/wpc/>) for more information. Public access to the treatment area must be restricted, if disinfection is not part of the treatment. Applicants completing this section of the application must also complete the Wastewater Collection System section.

Pump and Haul These types of systems may require engineering reports, refer to the website (<http://www.tdec.net/wpc/>) for more information.

Holding Ponds Given that annual rainfall onto open ponds exceeds annual evaporation (in Tennessee), the permittee must develop a written plan (to be retained on site and be available to the division upon request) that addresses how excess rainfall will be disposed of in compliance with the no discharge requirement of this permit. Treatment ponds are not to be used for stormwater treatment or storage. All new and existing point source industrial stormwater discharges associated with industrial activity require coverage under the Tennessee industrial stormwater multi-sector general permit TMSGP, refer to the website (<http://www.tdec.net/permits/srmh2o.shtml>) for more information. Describe the system for re-routing surface runoff away from ponds in the rainfall disposal plan.

Mobile Wash Operations Indicate whether the operation is run by an individual or a corporation with a fleet of vehicles equipped to wash and collect waste waters. If a corporation, indicate the home office as the "Official Contact". Indicate if operations take place at specific sites and list those counties that apply. Note that this permit covers operations for all of Tennessee. Operations indicated as "statewide" generally apply as a fleet type operation and each office location shall be individually permitted. Equipment may be truck or trailer-mounted, or both, indicate all that applies. Soaps, detergents, and other chemicals used should be non-toxic and biodegradable. All "chemically enhanced" (soaps, detergents, and other chemicals) waste-wash waters must be collected for proper disposal. If no chemically enhanced washwaters are used, clear-wash waters may travel by sheet flow to a gravel or grassy area where there is no opportunity to enter waters of the state. There should be no discharge to a storm water inlet, ditch, conveyance, stream, etc. If you are unsure of your wash area drainage, contact the area Environmental Field Office (EFO) prior to setting up your wash operation.

Fees There is no application fee for this permit. An annual maintenance fee is required and you will be invoiced at a later date.

Submitting the form and obtaining more information Note that this form must be signed by the chief executive officer, owner, or highest ranking elected official. For more information, contact your local EFO at the toll-free number 1-888-891-8332 (TDEC). Submit three complete applications (keep a copy for your records) to the appropriate EFO for the county(ies) where the facility is located, addressed to Attention: WPC, Permit Section Manager.

EFO	Street Address	Zip Code	EFO	Street Address	Zip Code
Memphis	2510 Mt. Moriah Road STE E-645	38115-1520	Cookeville	1221 South Willow Ave.	38506
Jackson	1625 Hollywood Dr	38305-4316	Chattanooga	540 McCallie Avenue STE 550	37402-2013
Nashville	711 R S Gass Boulevard	37243	Knoxville	3711 Middlebrook Pike	37921
Columbia	2484 Park Plus Drive	38401	Johnson City	2305 Silverdale Road	37601

Upon receipt of the required items, the division conducts a review of the material, and the applicant is notified of any deficiencies. When all the deficiencies have been corrected, the division makes a determination of whether to publish a draft permit. When a draft permit is generated, a public notice is issued and published in a local newspaper. The draft permit is then reviewed by the applicant, and division field staff. The general public also has an opportunity to review the permit. Based on public response, a public hearing may be held. After considering public comments and a final review, the permit may be issued. The entire process normally takes from five (5) to nine (9) months. Permits are normally valid for five (5) years, except those for pump and haul systems, which are generally valid for one (1) year.

The division has the right to inspect a facility when deemed necessary. In addition, the division has the right to revoke or suspend any permit for violation of permit conditions or any other provisions of the Tennessee Water Quality Control Act and other water pollution control rules.

The division is responsible for regulating any activity, which involves a potential discharge in order to protect waters of the State from pollution and to maintain the highest possible standards in water quality.

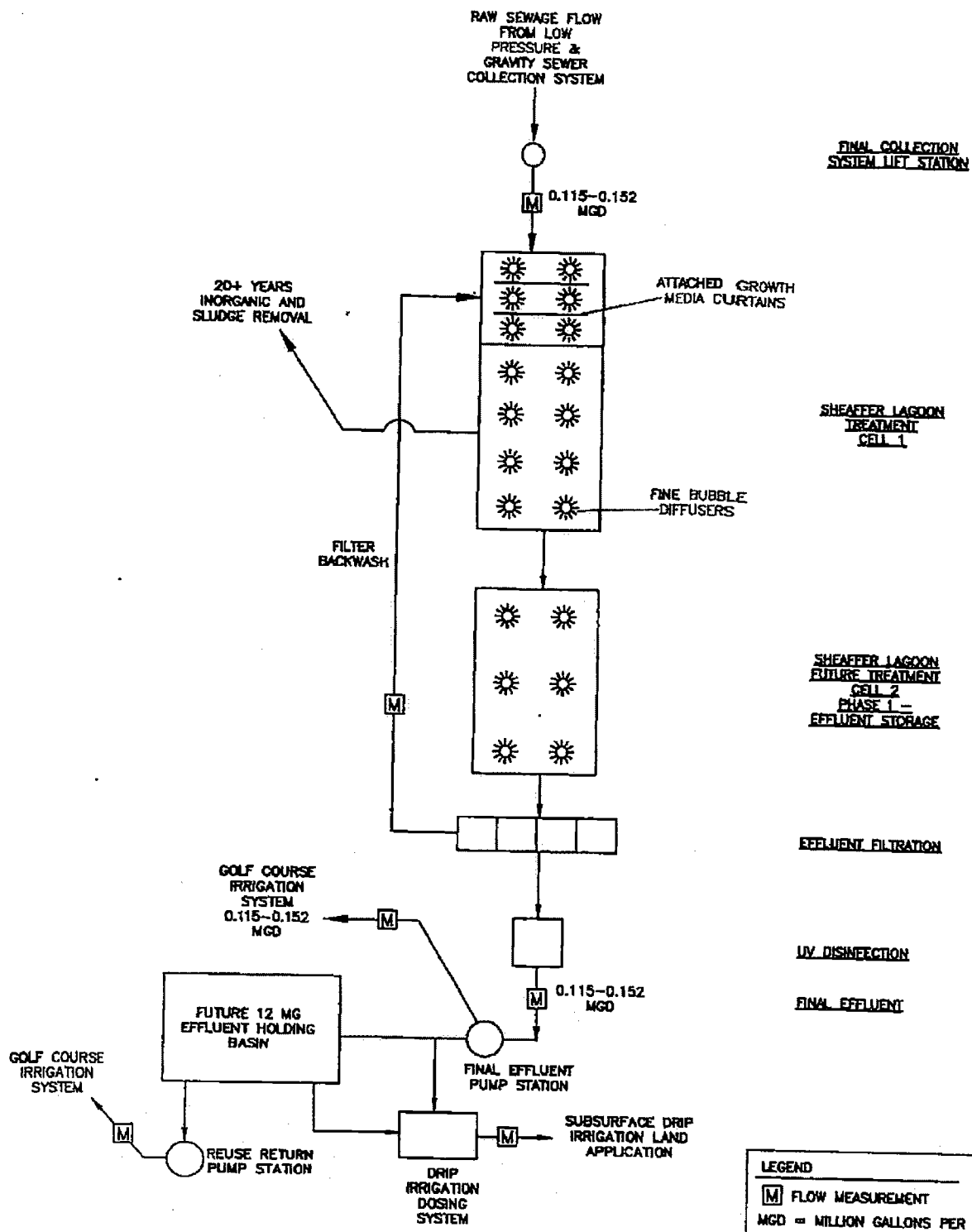



FIGURE 4
WASTEWATER TREATMENT SYSTEM
FLOW SCHEMATIC
STILLWATER RESOURCE
CONSERVATION DEVELOPMENT



ATWELL-HICKS
www.atwell-hicks.com

DR: BAL
DATE: 11/19/07
PROJECT NO: 06001081
CAD FILE: 06001081-EV-03-APPENDIX-F

ARIZONA FLORIDA ILLINOIS MICHIGAN
OHIO PENNSYLVANIA TENNESSEE
866 850 4200

Engineering
Surveying
Planning

Environmental
Ecological
Water Resources

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ATWELL-HICKS
DEVELOPMENT CONSULTANTS

May 21, 2008

Mr. Michael Matteson
Williamson County Department of Planning & Zoning
1320 West Main Street – Suite 400
Franklin, Tennessee 37064

Atwell-Hicks, LLC Project No. 06001081.82

Re: Revised Engineering Report (ER)/Design Development Report (DDR)
Revised Detailed Soil Investigation Report (DSIR)
Proposed Stillwater Resource Conservation Development
Williamson County, Tennessee

Dear Mr. Matteson:

On behalf of Eagle Ridge Investments, LLC, Atwell-Hicks is pleased to submit a revised Engineering Report (ER) that will also serve as the Design Development Report (DDR) as required by Williamson County. The ER/DDR includes a revised Detailed Soil Investigation Report (DSIR) for the proposed land application sites. These documents are prepared to support approval of the on-site wastewater treatment and disposal systems that will be constructed to serve the subject development project.

The ER/DDR and DSIR are provided for the third time as the wastewater treatment system has been relocated back to the 110 acre parcel south of the Stillwater development project. Please consider these documents for your use and technical review by the Williamson County engineer, Mr. Bo Butler of Smith, Seckman and Reid. The DSIR is revised only to the extent that the 55 acre parcel will now serve as most of the reserve disposal area. The ER/DDR is also essentially the same except for the location of the treatment facility.

We appreciate the time that you have invested in speaking with Atwell concerning this project to date and look forward to your favorable review of the ER/DDR/DSIR submittal. If you have any questions or comments, please feel free to contact me at your earliest opportunity.

Sincerely,
ATWELL-HICKS, LLC

SIGNED
Kenneth D. Jewison, P.E.
Project Manager
Water/Wastewater Services

Attachment

cc: D.J. Keehan, Eagle Ridge Investments, LLC
Bruce Meyer, Cartwright Creek, LLC
Matt Bryant, Atwell Hicks, LLC