



June 14, 2010

North Carolina Department of Environment and Natural Resources (NCDENR)  
Division of Waste Management – Solid Waste Section  
1646 Mail Service Center  
Raleigh, North Carolina 27699-1646

Attention: Ms. Jaclynne Drummond

**Reference:** **June 2010 Receptor Survey Update**  
Owl's Den Landfill (Permit No. 55-02)  
Lincolnton, North Carolina  
S&ME Project No. 1356-10-021

Dear Ms. Drummond:

S&ME, Inc. (S&ME), on behalf of Lincoln County, is submitting a receptor survey for the Owl's Den Landfill in Lincolnton, North Carolina. The survey is in response to the issuance of your letter dated May 20, 2010 entitled "October 2009 Semiannual Monitoring of Groundwater, Surface Water, and Methane" requiring a receptor survey within 1,500 feet from the edge of waste at the above referenced site. This letter presents our methodology and findings for the receptor survey.

### **Methodology**

S&ME performed a receptor survey for potable and non-potable wells within 1,500 feet of the edge of waste at the Owl's Den Landfill. Initially, S&ME superimposed the 1,500-foot buffer onto a parcel map created using current Geographical Information System (GIS) data for Lincoln County. S&ME identified 65 parcels within the buffer area and obtained parcel identification numbers (PIN), owner information, addresses, and information on vacancy for each parcel. Also, the Lincoln County Public Works Department provided a listing of residences along Owl's Den and Rock Dam Road that are connected to the County water supply.

On June 7, 2010, an S&ME staff professional performed a field reconnaissance to identify properties with wells within the buffer area. First a visual observation was made from the street to identify a well on the property, if a well could not be initially identified, then an attempt was made to contact the owner at their home. If the property owner was not at home, a more detailed visual observation of the property was attempted. A copy of the Field Report has been included with this letter.

## Findings

Based on the field reconnaissance and data obtained from the Lincoln County Public Works Department, S&ME provides the following data:

- Residential properties with identified supply wells: 34
- Residential properties suspected of having supply wells: 4
- Residential properties that do not have a supply well, but share with an adjacent property: 1
- Vacant properties with no identifiable supply well structures: 16
- Properties with non-residential structures and no identifiable wells: 2
- Residential properties with supply wells outside of the buffer: 4
- Properties connected to County water: 4

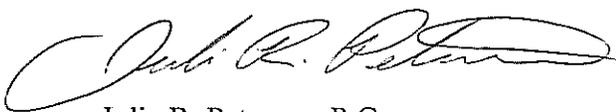
The findings above have been compiled into three categories and are identified on the attached Receptor Survey Map, Drawing 1. The Drawing identifies parcels by color for the following categories:

1. Parcels with known or suspected private supply wells (38 identified);
2. Parcels connected to County Water (4 identified); and
3. Parcels which are vacant, parcels that contain only non-residential structures without wells, or parcels with wells outside of the buffer (23 identified).

It should also be noted that the Convenience Center located on the landfill property is connected to County water.

Please call us at (704) 523-4726 if you have any questions or comments regarding this letter.

Sincerely,  
**S&ME, Inc.**



Julie R. Petersen, P.G.  
Project Manager/Senior Geologist

Senior Reviewed by M. Neal McElveen P.E., Environmental Services Manager

cc: Nancy Rickard - Lincoln County Solid Waste Manager  
Burns Whitaker, P.E. – Lincoln County Public Works Director

Attachments: Field Report with Attachments  
Drawing 1, Receptor Survey Map



## **DAILY FIELD REPORT**

**FIELD PERSONNEL:** Kyle Baucom  
**DATE:** June 7, 2010  
**PROJECT NAME:** **OWL'S DEN LANDFILL**  
2010 Corrective Action – Task 3.0 Receptor Survey  
**PROJECT NUMBER:** 1356-10-021

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### **General Scope**

Performed a well receptor survey of residences, structures, and parcels within 1,500 feet of the edge of waste of the landfill.

### **Equipment Used**

No equipment used.

### **Detailed Notes**

Kyle Baucom (KB) performed a well receptor survey of residences, structures, and parcels within 1,500 feet of the edge of waste of the landfill. A preliminary map was created using Lincoln County GIS data to locate parcels within the 1,500-foot boundary. Vacant parcels were also checked to verify that the parcels are, in fact, vacant.

KB began the well receptor survey southeast of the landfill on Rock Dam Road. Site reconnaissance was performed in the following order. First, a visual observation was performed from the vehicle. If a well was identified, then it was noted in the attached notes. If a well was not visually identified, then KB interviewed the owner to determine if a well was at the designated parcel. If the owner was not present, then KB performed a closer visual observation of the parcel.

The majority of the parcels within the 1,500-foot boundary had a private well. See the attached notes for more specific information. The well receptor survey ended on Owl's Den Road located northeast of the landfill.

**Addendum to Field Report**  
**Owl's Den Receptor Survey**  
**June 7, 2010**



PIN	OWNER	ADDRESS	VACANT	WELL	NOTES
3603998535	LIVINGSTON MICHAEL D	2736 ROCK DAM RD	No	Yes	Visual Identification of Well on Property
3603999445	SMITH LESTER RAY JR	2724 ROCK DAM RD	No	Yes	Visual Identification of Well on Property
3613091469	SANTIAGO SAMUEL	2718 ROCK DAM RD	No	Yes	Visual Identification of Well on Property
3613097884	LUTZ PHILLIP	2722 ROCK DAM RD	No	?	Property could not be accessed. Visual inspection from adjacent property indicated non-residential abandoned structures.
3613091335	CLARK LARRY KEITH	2704 ROCK DAM RD	No	Yes	Visual Identification of Well on Property
3613092239	BEAM DONALD E	2694 ROCK DAM RD	No	Yes	Visual Identification of Well on Property
3613093224	MCPAHAN ANGELA T STARNES	2684 ROCK DAM RD	No	Yes	Visual Identification of Well on Property
3613094233	BLAND MARTIN E	2578 ELLYS ST	No	Yes	Visual Identification of Well on Property
3613095267	LAWING WOODROW W III	2564 ELLYS ST	No	Yes	Visual Identification of Well on Property
3613097234	VANDIVER JEFFREY	2558 ELLYS ST	No	Yes	Visual Identification of Well on Property
3613097099	REESE PATRICIA A	2557 ELLYS ST	No	Yes	Visual Identification of Well on Property
3613086976	SMITH JAMES M	2561 ELLYS ST	No	Yes	Visual Identification of Well on Property
3613095021	BRANCH WESLEY G	2575 ELLYS ST	No	Yes	Visual Identification of Well on Property
3613086832	RHYNE JOHNNY ERIC	2634 ROCK DAM RD	No	Yes	Visual Identification of Well on Property
3613087678	BROMLEY KATIE M	2620 ROCK DAM RD	No	Yes	Visual Identification of Well on Property
3613088568	SIMS KAYE HAYES	2610 ROCK DAM RD	No	Yes	Visual Identification of Well on Property
3613089540	ROSS FOREST E JR	2596 ROCK DAM RD	No	No	Connected to County Water
3613180422	HILES CHARLES H	2590 ROCK DAM RD	No	No	Connected to County Water
3603998291	ROSS GENE	ROCK DAM RD	Yes	No	Vacant Property - Visually Confirmed
3613090027	ROSS GENE	2693 ROCK DAM RD	No	Yes	Visual Identification of Well on Property
3613082900	ROSS GENE	2673 ROCK DAM RD	No	Yes	Visual Identification of Well on Property
3613082840	HOOVER MARK D	2645 ROCK DAM RD	No	Yes	Visual Identification of Well on Property
3613082791	ROSS GENE	2635 ROCK DAM RD	No	Yes	Visual Identification of Well on Property
3613083642	MITCHELL AUDREY	2625 ROCK DAM RD	No	Yes	Visual Identification of Well on Property
3613271993	LOVELACE BILLY A	OWLS DEN RD	No	Yes	Talked with Owner
3613189160	LOVELACE HULDA G	OWLS DEN RD	No	Yes	Talked with Owner
3613187263	LOVELACE RONALD	535 OWLS DEN RD	No	Yes	Visual Identification of Well on Property
3613280293	WILLIS GARY W	OWLS DEN RD	No	Yes	Visual Identification of Well on Property
3613282307	BANK OF NEW YORK THE	551 OWLS DEN RD	No	Yes	Visual Identification of Well on Property
3613281684	GATES CRAIG P INC	589 OWLS DEN RD	No	?	Could not identify well on property during visual inspection and owner was not home.

**Addendum to Field Report**  
**Owl's Den Receptor Survey**  
**June 7, 2010**

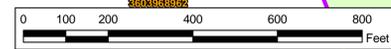
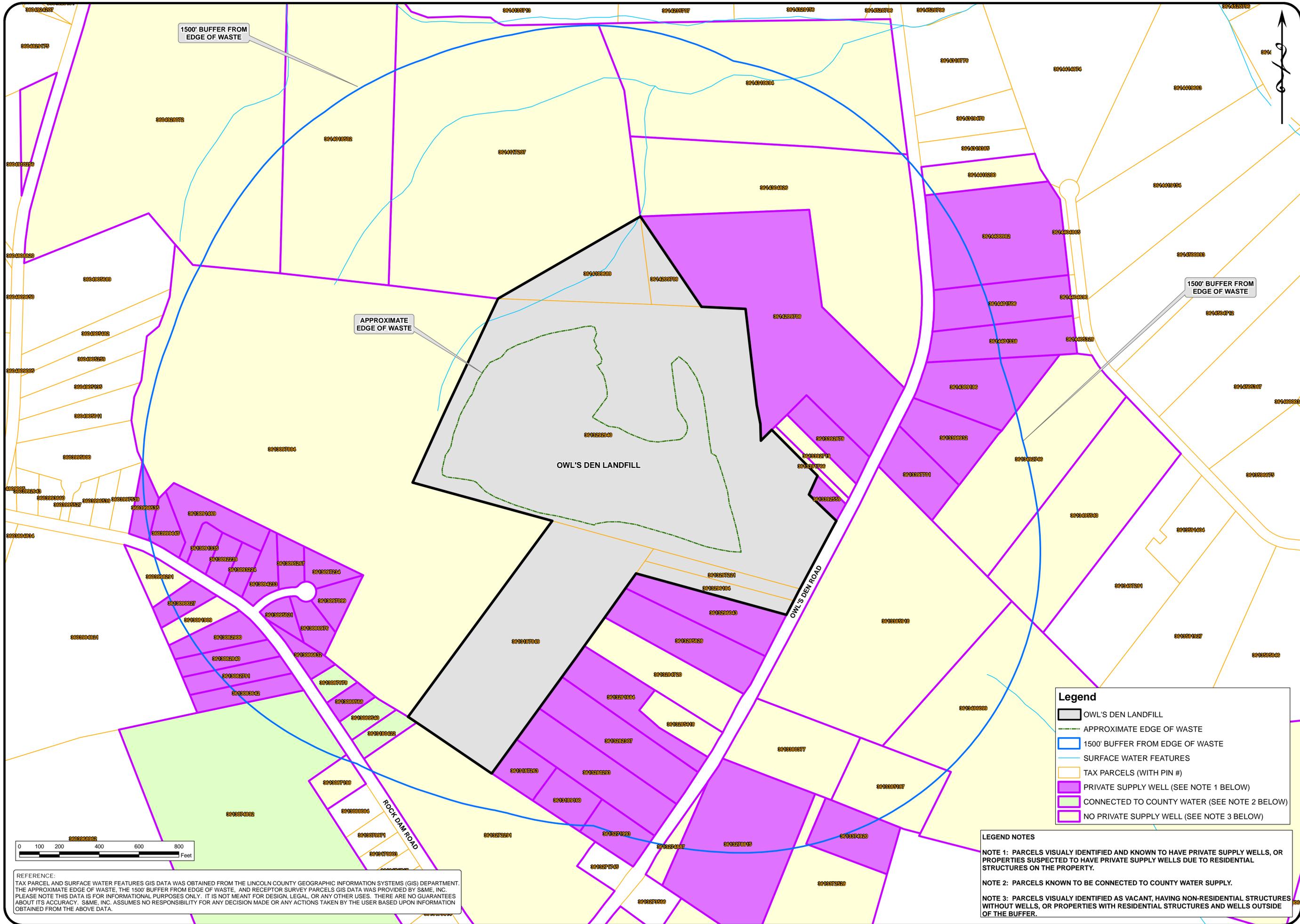


PIN	OWNER	ADDRESS	VACANT	WELL	NOTES
3613285828	ROBERTS BILLY RAY	637 OWLS DEN RD	No	?	Property appeared vacant and had "Do Not Enter" sign posted.
3613296043	GANTT SHERRY DIANNE (EATON)	OWLS DEN RD	No	Yes	Talked with Owner
3613392559	ANDREWS VIOLET E HEIRS OF	739 OWLS DEN RD	No	Yes	Visual Identification of Well on Property
3613392719	MAYFIELD BILLY GENE	751 OWLS DEN RD	No	Yes	Visual Identification of Well on Property
3613392878	MAYFIELD S R SR	759 OWLS DEN RD	No	No	Shares well with 781 Owl's Den Road
3614209708	AVERY ASHLEY RAY	781 OWLS DEN RD	No	Yes	Talked with Owner
3614304826	AVERY WILFORD RAY	OWLS DEN RD	No	?	Property could not be accessed. Visual inspection from adjacent property indicated non-residential structures.
3614400982	SPEAKMAN SAMMIE E JR	876 OWLS DEN RD	No	?	Could not identify well on property during visual inspection and owner was not home.
3614401506	HUBBARD WILLIAM EHLERT	2293 FORD LN	No	Yes	Visual Identification of Well on Property
3614401338	ROSS JAMES K	865 OWLS DEN RD	No	?	Could not identify well on property during visual inspection and owner was not home.
3614309186	ALVEY WILLIAM R	806 OWLS DEN RD	No	Yes	Visual Identification of Well on Property
3613398932	BOURQUE DANIEL PAUL	782 OWLS DEN RD	No	Yes	Visual Identification of Well on Property
3613397701	SIMMONS NORMAN E JR	766 OWLS DEN RD	No	Yes	Visual Identification of Well on Property
3613278815	PALAZZO LUCIA RICOTTA	558 OWLS DEN RD	No	Yes	Visual Identification of Well on Property
3613374920	SETZER JONATHAN LAMONTE	2121 LOGAN LAND RD	No	Yes	Visual Identification of Well on Property
3614310694	AVERY MELINDA R	OWLS DEN RD	Yes	No	Vacant Property - Visually Confirmed
3613074892	LINCOLN COUNTY	2595 ROCK DAM RD	No	No	Connected to County Water
3613385910	GILBERT R B	OWLS DEN RD	Yes	No	Vacant Property - Visually Confirmed
3613274887	PALAZZO LUCIA RICOTTA	OWLS DEN RD	Yes	No	Vacant Property - Visually Confirmed
3613380377	BROWN REVONDA S	OWLS DEN RD	Yes	No	Vacant Property - Visually Confirmed
3614117207	AVERY MELINDA R	DANIELS RD	Yes	No	Vacant Property - Visually Confirmed
3604928072	SCRONCE BEN C	782 DANIELS RD	No	Yes	Well Located Outside of Buffer
3613272291	PEELER HUBERT H	478 OWLS DEN RD	Yes	No	Vacant Property - Visually Confirmed
3613385187	SMITH TOMMY E	LOGAN LAND RD	Yes	No	Vacant Property - Visually Confirmed
3614410200	SPEAKMAN SAMMIE E JR	OWLS DEN RD	Yes	Yes	Well Located Outside of Buffer
3613492746	TRUITT BOBBY W	1193 HAYWOOD CT	No	Yes	Well Located Outside of Buffer
3613391766	MAYFIELD BILLY GENE	OWLS DEN RD	Yes	No	Vacant Property - Visually Confirmed

**Addendum to Field Report**  
**Owl's Den Receptor Survey**  
**June 7, 2010**



PIN	OWNER	ADDRESS	VACANT	WELL	NOTES
3613486099	GREENE MILLS	LOGAN LAND RD	Yes	No	Vacant Property - Visually Confirmed
3613372528	HOUSER DANNY N III	2147 LOGAN LAND RD	No	Yes	Well Located Outside of Buffer
3613087198	BOWEN LEWIS J	2575 ROCK DAM RD	No	Yes	Well Located Outside of Buffer
3613495540	CROSS SEAN WRAY	HAYWOOD CT	Yes	No	Vacant Property - Visually Confirmed
3614018502	SCRONCE BEN CARLTON	DANIELS RD	Yes	No	Vacant Property - Visually Confirmed
3613081909	ROSS GENE	ROCK DAM RD	Yes	No	Vacant Property - Visually Confirmed
3613284720	MORRISON JAMES LEROY JR	OWLS DEN RD	Yes	No	Vacant Property - Visually Confirmed
3613285418	GATES LIBBIE L	OWLS DEN RD	Yes	No	Vacant Property - Visually Confirmed



REFERENCE:  
 TAX PARCEL AND SURFACE WATER FEATURES GIS DATA WAS OBTAINED FROM THE LINCOLN COUNTY GEOGRAPHIC INFORMATION SYSTEMS (GIS) DEPARTMENT. THE APPROXIMATE EDGE OF WASTE, THE 1500' BUFFER FROM EDGE OF WASTE, AND RECEPTOR SURVEY PARCELS GIS DATA WAS PROVIDED BY S&ME, INC. PLEASE NOTE THIS DATA IS FOR INFORMATIONAL PURPOSES ONLY. IT IS NOT MEANT FOR DESIGN, LEGAL, OR ANY OTHER USES. THERE ARE NO GUARANTEES ABOUT ITS ACCURACY. S&ME, INC. ASSUMES NO RESPONSIBILITY FOR ANY DECISION MADE OR ANY ACTIONS TAKEN BY THE USER BASED UPON INFORMATION OBTAINED FROM THE ABOVE DATA.

Legend	
	OWL'S DEN LANDFILL
	APPROXIMATE EDGE OF WASTE
	1500' BUFFER FROM EDGE OF WASTE
	SURFACE WATER FEATURES
	TAX PARCELS (WITH PIN #)
	PRIVATE SUPPLY WELL (SEE NOTE 1 BELOW)
	CONNECTED TO COUNTY WATER (SEE NOTE 2 BELOW)
	NO PRIVATE SUPPLY WELL (SEE NOTE 3 BELOW)

**LEGEND NOTES**

**NOTE 1:** PARCELS VISUALLY IDENTIFIED AND KNOWN TO HAVE PRIVATE SUPPLY WELLS, OR PROPERTIES SUSPECTED TO HAVE PRIVATE SUPPLY WELLS DUE TO RESIDENTIAL STRUCTURES ON THE PROPERTY.

**NOTE 2:** PARCELS KNOWN TO BE CONNECTED TO COUNTY WATER SUPPLY.

**NOTE 3:** PARCELS VISUALLY IDENTIFIED AS VACANT, HAVING NON-RESIDENTIAL STRUCTURES WITHOUT WELLS, OR PROPERTIES WITH RESIDENTIAL STRUCTURES AND WELLS OUTSIDE OF THE BUFFER.

NO.	DATE	DESCRIPTION	BY

RECEPTOR SURVEY MAP	OWL'S DEN LANDFILL LINCOLN COUNTY, NORTH CAROLINA
DRAWN BY: CXR	CHECKED BY:
DESIGNED BY:	APPROVED BY:
PROJECT NO: 1356-10-021, PH 03	DATE: 06/14/10
SCALE: 1" = 200'	DRAWING NO: 1
DRAWING PATH: G:\1356\LINCOLN COUNTY\Owl's Den Receptor Survey\1356-10-021.dwg	SHEET NO: 1