

Permit No.	Date	Document ID No.
44-07	September 29, 2008	5912



September 26, 2008

Mr. Allen Gaither
Solid Waste Permitting Section
Division of Waste Management
North Carolina Department of Environment and Natural Resources
2090 U.S. Highway 70
Swannanoa, North Carolina 28778

RE: Notification
Leachate Seep and Repair
White Oak MSW Landfill
Haywood County, North Carolina
Permit #44-07

Dear Mr. Gaither:

On behalf of Haywood County, this is to notify your office of an apparent leachate seep at the White Oak MSW Landfill. Landfill personnel observed the apparent seep, which was a small wet area, on Monday September 22, 2008. The proximity of the seep to the liner edge required prompt action to ensure that leachate did not leave the lined landfill area. The County contacted McGill Associates to assist with the repair of the problem. On Tuesday, September 23, 2008 McGill Associates survey personnel went to the site to confirm the location of the liner edge in the vicinity of the seep and to verify existing ground elevations. As-built drawing information provided by the County and prepared by Perry M. Alexander Construction Co., September 17, 1993 was the basis for liner edge confirmation and depth to liner calculations. In order to turn down the apparent pocket of leachate, McGill Associates proposed installing a trench type drain for the conveyance of leachate away from the apparent seep area towards the MSW Phase 1 sump area, a distance of approximately 40 feet.

The existing ground elevations of the proposed alignment of the trench were carefully surveyed and this information was compared to the as-built elevations for the flexible membrane liner. There is a minimum 4-foot separation between the bottom of the trench and the liner in the vicinity of the leachate seep. The separation is a minimum of 5 feet for the remainder of the trench. Trench excavation began on Tuesday, September 23rd. McGill Associates personnel observed the excavation to ensure that the native soils drainage layer, which is 2 feet above the liner, was not breached by the excavation of the trench. Critical elevations at the bottom of the trench were surveyed to verify separation elevations. The County proposes to install approximately 3 to 4 feet of railroad ballast stone in the bottom of the trench. The gradient of the trench is towards the sump area. In addition to the gravel trench, the County proposes to install a 18-inch riser pipe in the vicinity of the sump to provide future access to the sump area for locating a leachate pump, should the need arise. A minimum of 2.5 feet of compacted native

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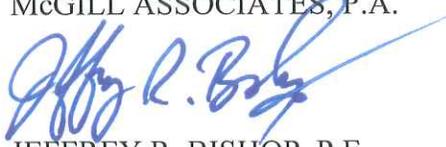
McGill Associates, P.A. • P.O. Box 2259, Asheville, NC 28802 • 55 Broad Street, Asheville, NC 28801

828-252-0575 • Fax: 828-252-2518

soils will be installed over the drainage stone. Grass will be sown upon completion of the grading work.

The installation of the trench will allow any future pockets of leachate a conveyance path to the sump area. Landfill personnel will continue to monitor the area to ensure that leachate does not leave the lined landfill area. The County will perform annual cleaning of leachate system piping in the next month, which will ensure that leachate properly drains from the landfill. Please don't hesitate to contact us if you have any questions regarding this maintenance work at the White Oak Landfill.

Sincerely,
McGILL ASSOCIATES, P.A.



JEFFREY R. BISHOP, P.E.
Senior Project Manager

Enclosures

cc: Deborah Aja, NCDENR Solid Waste Section, w/enc
Stephen King, Haywood County Director of Solid Waste, w/enc
David Cotton, Haywood County Manager, w/o enc

LEACHATE SEEPAGE REPAIR

FIGURE 1

SEPTEMBER 22, 2008

APPARENT LEACHATE SEEP AREA



SCALE: 1" = 200'

PROPOSED
PHASE 3

PHASE 1
CELL 1

CELL 2

CELL 3

PHASE 1
CELL 4

PHASE 2

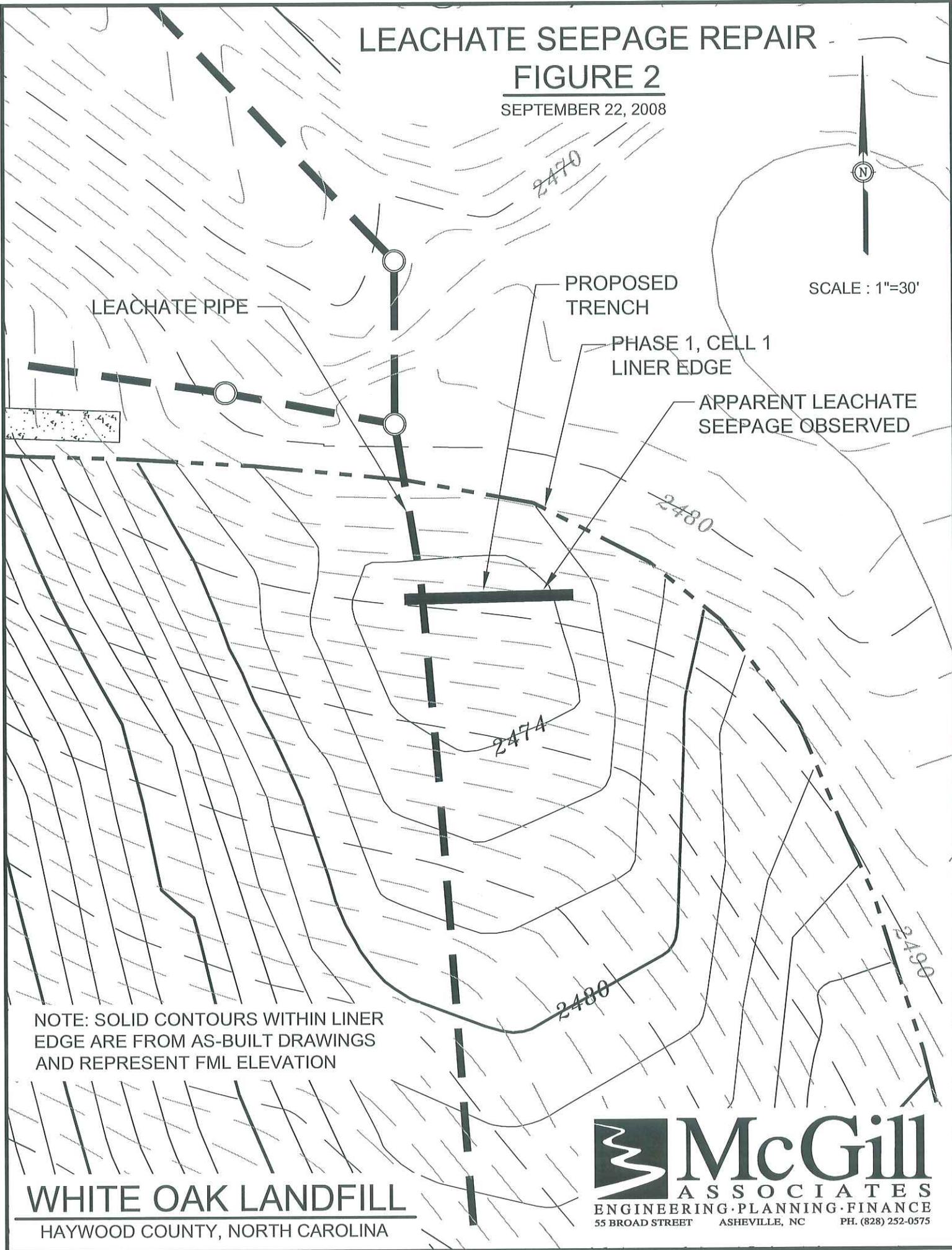
WHITE OAK LANDFILL
HAYWOOD COUNTY, NORTH CAROLINA

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LEACHATE SEEPAGE REPAIR

FIGURE 2

SEPTEMBER 22, 2008



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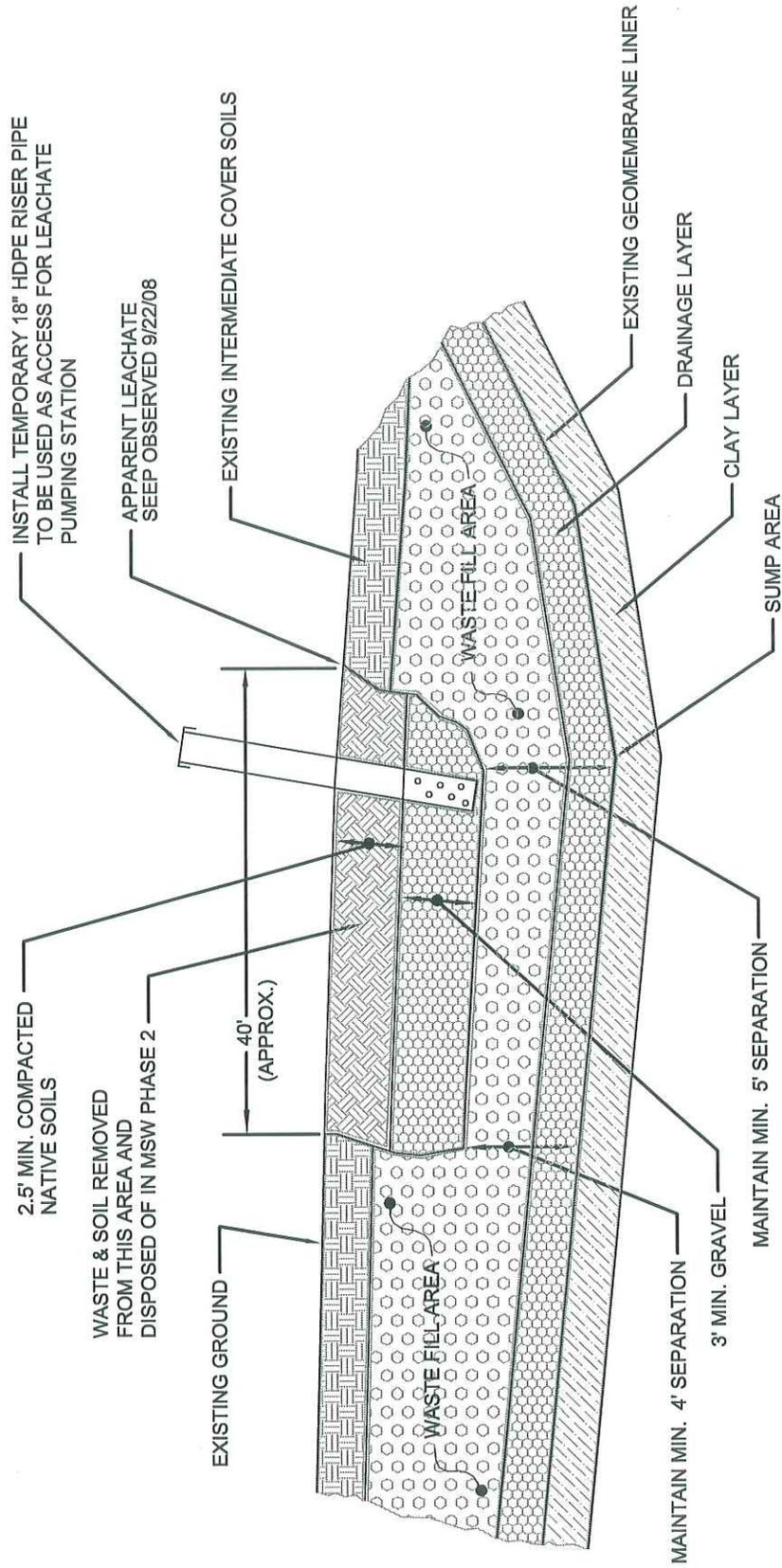
TEMPORARY RISER PIPE INSTALLATION NOTES:

1. RISER PIPE TO BE 18" HDPE TO ACCOMMODATE PUMPING ACCESS TO LEACHATE.
2. RISER PIPE TO HAVE 1/2" PERFORATIONS IN LOWER 3' OF PIPE FOR LEACHATE ACCESS.
3. LOWER END OF RISER TO BE PLUGGED.
4. UPPER END OF RISER TO HAVE SCREW ON CAP FOR ACCESS.
5. LOWER END OF PIPE TO BE SURROUNDED WITH 3" STONE. MIN. STONE AREAS ARE:
6" BELOW LOWER END OF PIPE;
3" IN HEIGHT ABOVE LOWER END OF PIPE;
3' HORIZONTAL AREA AROUND PIPE.
6. EXTEND RISER PIPE MIN. 4' TO ALLOW FOR EASY ACCESS.

LEACHATE SEEPAGE REPAIR

FIGURE 3

SEPTEMBER 22, 2008
N.T.S.



WHITE OAK MSW LANDFILL
HAYWOOD COUNTY, NORTH CAROLINA