

May 22, 2013

Ms. Jackie Drummond
North Carolina Department of Environment and Natural Resources
Division of Waste Management, Solid Waste Section
1646 Mail Service Center
Raleigh, North Carolina 27699-1646

**RE: Notification of NC Appendix II Detections and GPS Exceedances
First Semiannual Sampling Event of 2013
Granville County – Closed Butner Landfill Permit No. 39-02
JOYCE Project No. 00660.1201.12, Task 03**

Dear Ms. Drummond:

On behalf of Granville County, Joyce Engineering (JOYCE) is submitting this notification of Appendix II constituent detections and GPS exceedances at the Butner Landfill, Permit No. 39-02, in accordance with Title 15A, Chapter 13, Subchapter 13B, Section .1634 of the North Carolina Solid Waste Management Regulations. The first semiannual sampling event of 2013 at the Butner Landfill took place on May 1, 2013. Samples were sent to Pace Analytical Services, Inc. of Huntersville, North Carolina. The attached table summarizes all Appendix I and Appendix II constituents detected in groundwater and surface water samples during this event.

Cobalt in MW-2R and MW-5 was detected above the GWPS Standard. Preliminary statistical analysis does not indicate statistical increase above the calculated background value for cobalt.

Benzene in MW-2R was the only NC Appendix II constituent detected above its Groundwater Protection Standard (GPS). The benzene exceedance was addressed in the Assessment of Corrective Measures report submitted by JOYCE on May 17, 2013. In general, the results are consistent with historical data.

A complete Semiannual Groundwater Monitoring Report will be submitted as soon as the final data review, final statistical analyses, and hydrologic analysis are complete. If you have any questions or need additional information, please feel free to contact me at (336) 323-0092.

Sincerely,
JOYCE ENGINEERING, INC.



Van Burbach, Ph.D., P.G.
Technical Consultant

Attachment: Tables of Detected Constituents

Copy: Jason Falls, Granville County

WELL ID	PARAMETER	RESULT	UNITS	QUALIFIER
3902-MW2R	1,2-Dichlorobenzene	1.2	ug/L	J
3902-MW2R	1,4-Dichlorobenzene	2.1	ug/L	
3902-MW2R	Barium	118	ug/L	
3902-MW2R	Benzene	1.3	ug/L	
3902-MW2R	Chlorobenzene	14	ug/L	
3902-MW2R	Cobalt	24.3	ug/L	
3902-MW2R	Naphthalene	2.9	ug/L	J
3902-MW2R	Naphthalene	5.1	ug/L	J
3902-MW2R	Nickel	89.6	ug/L	
3902-MW2R	Tin	25.8	ug/L	J
3902-MW2R	Xylene (Total)	0.68	ug/L	J
3902-MW3R	1,2-Dichlorobenzene	1.6	ug/L	J
3902-MW3R	1,4-Dichlorobenzene	1.2	ug/L	
3902-MW3R	Barium	69.1	ug/L	J
3902-MW3R	Benzene	0.56	ug/L	J
3902-MW3R	Chlorobenzene	16.6	ug/L	
3902-MW3R	Chloroethane	1.9	ug/L	J
3902-MW3R	Copper	13.6	ug/L	
3902-MW3R	Nickel	31.9	ug/L	J
3902-MW3R	Tin	12.2	ug/L	J
3902-MW4	1,1-Dichloroethane	0.62	ug/L	J
3902-MW4	Benzene	0.27	ug/L	J
3902-MW4	Chlorobenzene	3	ug/L	J
3902-MW4	Chloroethane	2.7	ug/L	J
3902-MW4	Copper	5.8	ug/L	J
3902-MW4	Nickel	10.4	ug/L	J
3902-MW4	Vanadium	6.3	ug/L	J
3902-MW5	Barium	84.2	ug/L	J
3902-MW5	Cobalt	30.4	ug/L	
3902-MW5	Copper	9.6	ug/L	J
3902-MW5	Nickel	5.7	ug/L	J
3902-MW5	Zinc	11.8	ug/L	
3902-SW1	Barium	37.2	ug/L	J
3902-SW1	Chromium	5.7	ug/L	J
3902-SW2	Barium	43.1	ug/L	J
3902-SW2	Zinc	16.8	ug/L	
Highlighted values are above the GPS				