SUBJECT ENGINEERING -ANALYTICAL RESULTS FOR THE B.A.T. MONITORING

DATE JULY 24, 1990

TO Mr. T. E. Ray

FROM T. H. Overgaard

IN RE

COPIES TO F. DiMaggio, D. Malzahn

US EPA RECORDS CENTER REGION 5
406679

TMA/ERG has completed the analysis of the water samples necessary to meet the requirements, for the second half of 1990, of the "Special Conditions" of our NPDES permit. This sampling and analysis is outlined in MONITORING, SAMPLING, AND ANALYSIS PLAN 046 to M47 Sept. 22, 1988. The samples were taken by a TMA/ERG field service engineer on 6/13/90.

B.A.T MONITORING

CONSTITUENT	SAMPLE TYPE	SAMPLE DATE	ANALYTICAL RESULT
VOLATILE COMPOUNDS			
acrylonitrile	Grab	06/13/90	<5 ug/L
benzene	Grab	06/13/90	<5 ug/L
carbon tetrachloride	Grab	06/13/90	<5 ug/L
chlorobenzene	Grab	06/13/90	<5 ug/L
chloroethane	Grab	06/13/90	<10 ug/L
chloroform	Grab	06/13/90	<5 ug/L
1,1-dichloroethane	Grab	06/13/90	<5 ug/L
1,2-dichloroethane	Grab	06/13/90	<5 ug/l
1,1-dichloroethylene	Grab	06/13/90	<5 ug/L
1,2-dichloropropane	Grab	06/13/90	<5 ug/L
cis1,3-dichloropropylene	Grab	06/13/90	<5 ug/L
trans1,3-dichloropropylene	Grab	06/13/90	<5 ug/L
ehtylbenzene	Grab	06/13/90	<5 ug/L
methyl chloride	Grab	06/13/90	<10 ug/L
methylene chloride	Grab	06/13/90	<10 ug/L
tetrachloroethylene	Grab	06/13/90	<5 ug/L
toluene	Grab	06/13/90	<5 ug/L
1,2-trans-dichloroethylene	Grab	06/13/90	<5 ug/L
1,1,1-trichloroethane	Grab	06/13/90	<5 ug/L
trichloroethylene	Grab	06/13/90	<5 ug/L
1,1,2-trichloroethane	Grab	06/13/90	<5 ug/L
vinyl chloride	Grab	06/13/90	<10 ug/L

	SAMPLE TYPE	SAMPLE DATE	ANALYTICAL RESULT
[illegible]-dimethylphenol	Grab	06/13/90	<5 ug/L
4,6-dinitro-o-cresol	Grab	06/13/90	<25 ug/L
2,4-dinitrophenol	Grab	06/13/90	<25 ug/L
2-nitrophenol	Grab	06/13/90	<5 ug/L
4-nitrophenol	Grab	06/13/90	<25 ug/L

BASE/NEUTRAL COMPOUNDS

CONSTITUENT	SAMPLE TYPE	SAMPLE DATE	ANALYTICAL RESULT
acenapthene	Grab	06/13/90	<5 ug/L
acenapthylene	Grab	06/13/90	<5 ug/L
anthracene	Grab	06/13/90	<5 ug/L
benzo(a)anthracene	Grab	06/13/90	<5 ug/L
benzo(a)pyrene	Grab	06/13/90	<5 ug/L
3,4-benzofluoranthene	Grab	06/13/90	<5 ug/L
benzo(k)fluoranthene	Grab	06/13/90	<5 ug/L
bis(2-chloroisopropyl) ether	Grab	06/13/90	<5 ug/L
bis(2-ethylhexyl) thalate	Grab	06/13/90	150 ug/L
chrysene	Grab	06/13/90	<5 ug/L
1,2-dichlorobenzene	Grab	06/13/90	<5 ug/L
1,3-dichlorobenzene	Grab	06/13/90	<5 ug/L
1,4-dichlorobenzene	Grab	06/13/90	<5 ug/L
diethyl phthalate	Grab	06/13/90	<5 ug/L
dimethyl phthalate	Grab	06/13/90	<5 ug/L
di-n-butyl phthalate	Grab	06/13/90	<5 ug/L
fluoranthene	Grab	06/13/90	<5 ug/L
fluorene	Grab	06/13/90	<5 ug/L
hexachlorobenzene	Grab	06/13/90	<5 ug/L
hexachlorobutadiene	Grab	06/13/90	<5 ug/L
hexachloroethane	Grab	06/13/90	<5 ug/L
naphthalene	Grab	06/13/90	<5 ug/L
nitrobenzene	Grab	06/13/90	<5 ug/L
[illegible]enanthrene	Grab	06/13/90	<5 ug/L
[illegible]rene	Grab	06/13/90	<5 ug/L
1,2,4-trichlorobenzene	Grab	06/13/90	<5 ug/L

		SAMPLE DATE	ANALYTICAL RESULT
[illegible]	Grab	06/13/90	<0.01 mg/L
[illegible]	Grab	06/13/90	<0.01 mg/L
Total Cyanide	Grab	06/13/90	<0.005 mg/L
Total Lead	Grab	06/13/90	<0.03 mg/L
Total Nickel	Grab	06/13/90	<0.01 mg/L

There is no clear explanation for the elevated bis(2-ethylhexyl) phthalate on this sample. Per my contact at the contract lab, this chemical is common in PVC and poly ehtylene plastics. He has seen elevated concentrations of bis(2-ethylhexyl)phthalate in numerous other water samples where the chemical is neither produced nor used on site.

T. H. Overgaard