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Analytical report : Job #:  
A05-1765; STL Project #:  
Severn Trent Laboratories,  
2005.

Derek E. Chase  
Director  
Indoor Air Matrix

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March 30, 2005

Mr. James F. Burke, P.E.  
Environmental Engineer  
New York State Department of Environmental Conservation  
Region 7  
615 Erie Boulevard West  
Syracuse, NY 13204-2400

Re: Indoor Air sampling  
Emerson Power Transmission, Ithaca, New York

Dear Mr. Burke:

This letter is in response to your correspondence, dated February 28, 2005, which requested that Emerson Electric Co. submit a plan and time schedule for expanding the current indoor air study area to include additional neighborhoods to the west of the Emerson Power Transmission (EPT) facility in Ithaca, New York. The primary area specified by the New York State Department of Conservation (NYSDEC) includes the area bordered by Albany, Wood, Plain, and Elmira Roads.

Based on the review of indoor air sampling data from both the fall and winter sampling events, as well as the evaluation of the groundwater samples collected from the new monitoring wells installed to the west of the EPT site, there is no technical basis for expanding the current study area at this time. The indoor air sampling results for the winter 2005 sampling event show that no site related volatile organic compounds (VOCs) were found in samples collected from the homes along Spencer Street, Wood Street, and South Albany Street at concentrations that would trigger further action in accordance with the New York State Department of Health (NYSDOH) Soil Vapor Indoor Air Matrix.

Furthermore, results of groundwater samples collected from monitoring wells recently installed along Wood Street (MW-18A), South Geneva Street (MW-19A), South Cayuga Street (MW-23B), and West Spencer Street (MW-24B) show that no site related VOCs were detected in groundwater at concentrations above the remediation target levels established for the EPT site. Only trace concentrations of tetrachloroethene (PCE), 1,1,1-trichloroethane (TCA), and trichloroethene (TCE) were detected in three of the four wells sampled. Monitoring well MW-23B contained an estimated value of PCE at 0.97  $\mu\text{g/l}$ , TCA at 2.2  $\mu\text{g/l}$ , and TCE at 1.0  $\mu\text{g/l}$ . Monitoring well MW-24B contained an estimate value of PCE at 0.29  $\mu\text{g/l}$  and an estimated value of TCE at 0.91  $\mu\text{g/l}$ . The duplicate sample collected from MW-19A also contained an estimated value of TCE at 0.29  $\mu\text{g/l}$ . The recent groundwater sampling results

APR 01 2005

James E. Burke, P.E.

March 30, 2005

Page 2

also demonstrate that no semi-volatile organic compounds or polychlorinated biphenyls are present in offsite groundwater in this area. Figure 1 shows the location of the newly installed offsite monitoring wells and Table 1 presents a summary of the groundwater sampling results. The analytical data is included in Enclosure 1.

Based upon the technical review of the data and evaluation presented above, expanding the indoor air study area further to the west is not warranted. However, if any additional data becomes available (indoor air or groundwater) that supports expanding the current study area, Emerson will pursue the additional work in the same aggressive manner as it has demonstrated in the past. In addition, if NYSDEC is aware of information that exists that could affect this decision, please forward the information to Emerson for review and evaluation.

Emerson is committed to conducting all necessary actions on this matter and will continue to work cooperatively with the NYSDEC and the NYSDOH to ensure that public health is being protected. We are available to discuss this matter at your convenience.

Sincerely yours,



Derek E. Chase  
Director Environmental Affairs

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Enclosure 1 – Laboratory Reports



Table 1

**Offsite Groundwater Monitoring Well Sampling Results**  
**Emerson Power Transmission Site**  
**Ithaca, New York**  
**February 25, 2005 (µg/l)(a)**

<u>Sample ID:</u>	<u>MW-18A</u>	<u>MW-19A</u>	<u>MW-19A 100 (b)</u>	<u>MW-23B</u>	<u>MW-24B</u>	<u>Seep 1</u>	<u>Trip Blank</u>
<b>Volatile Organic Compounds</b>							
Acetone	30	ND	ND	ND	13	ND	ND
Benzene	ND	ND	ND	ND	0.92 J	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND
Bromoforn	ND	ND	ND	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND	ND	ND	ND
2-Butanone	13	ND	ND	ND	ND	ND	ND
Carbon disulfide	0.30 J	ND	ND	0.24 J	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND
Chloroforn	ND	ND	ND	1.3	ND	ND	ND
Chloromethane	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	ND	ND	ND	ND	0.27 J	ND	ND
1,2-Dibromomethane	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	ND	ND	ND	ND	ND	ND	ND
Methyl acetate	4.5	ND	ND	ND	ND	ND	ND
Methylcyclohexane	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	ND	ND	ND	ND	ND	ND	ND
Methyl tert butyl ether	ND	ND	ND	ND	ND	ND	ND
Styrene	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	0.97 J	0.29 J	ND	ND
Toluene	ND	ND	ND	ND	1.6	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	2.2	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	0.29 J	1	0.91 J	ND	ND
Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	ND	ND	ND	ND	ND	ND	ND

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<b>Semivolatile Organic Compounds</b>							
Acenaphthene	ND	ND	ND	ND	ND	ND	NA
Acenaphthylene	ND	ND	ND	ND	ND	ND	NA
Acetophenone	ND	ND	ND	ND	ND	ND	NA
Anthracene	ND	ND	ND	ND	ND	ND	NA
Atrazine	ND	ND	ND	ND	ND	ND	NA
Benzaldehyde	ND	ND	ND	ND	ND	ND	NA
Benzo(a)anthracene	ND	ND	ND	ND	ND	ND	NA
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	ND	NA
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	ND	NA
Benzo(ghi)perylene	ND	ND	ND	ND	ND	ND	NA
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND	NA
Benzoic acid	ND	ND	ND	ND	ND	ND	NA
Benzyl alcohol	ND	ND	ND	ND	ND	ND	NA
Biphenyl	ND	ND	ND	ND	ND	ND	NA
Bis(2-chloroethoxy) methane	ND	ND	ND	ND	ND	ND	NA
Bis(2-chloroethyl) ether	ND	ND	ND	ND	ND	ND	NA
2,2'-Oxybis(1-Chloropropane)	ND	ND	ND	ND	ND	ND	NA
Bis(2-ethylhexyl) phthalate	ND	ND	ND	ND	ND	ND	NA
4-Bromophenyl phenyl ether	ND	ND	ND	ND	ND	ND	NA
Butyl benzyl phthalate	ND	ND	ND	ND	ND	ND	NA
4-Chloroaniline	ND	ND	ND	ND	ND	ND	NA
4-Chloro-3-methylphenol	ND	ND	ND	ND	ND	ND	NA
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND	NA
2-Chlorophenol	ND	ND	ND	ND	ND	ND	NA
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	ND	ND	NA
Caprolactam	ND	ND	ND	ND	ND	ND	NA
Chrysene	ND	ND	ND	ND	ND	ND	NA
Dibenz(a,h)anthracene	ND	ND	ND	ND	ND	ND	NA
Dibenzofuran	ND	ND	ND	ND	ND	ND	NA
Di-n-butyl phthalate	ND	ND	ND	ND	ND	ND	NA
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	NA
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	NA
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	NA
3,3'-dichlorobenzidine	ND	ND	ND	ND	ND	ND	NA
2,4-Dichlorophenol	ND	ND	ND	ND	ND	ND	NA
Diethyl phthalate	ND	ND	ND	ND	ND	ND	NA
2,2'-Dimethylphenol	ND	ND	ND	ND	ND	ND	NA
Dimethyl phthalate	ND	ND	ND	ND	ND	ND	NA
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND	ND	ND	NA
2,4-Dinitrophenol	ND	ND	ND	ND	ND	ND	NA
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND	NA
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND	NA
Di-n-octyl phthalate	ND	ND	ND	ND	ND	ND	NA
Fluoranthene	ND	ND	ND	ND	ND	ND	NA
Fluorene	ND	ND	ND	ND	ND	ND	NA
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	NA
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	NA
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	NA
Hexachloroethane	ND	ND	ND	ND	ND	ND	NA
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	ND	ND	NA
Isophorone	ND	ND	ND	ND	ND	ND	NA
2-Methylnaphthalene	ND	ND	ND	ND	ND	ND	NA
2-Methylphenol	ND	ND	ND	ND	ND	ND	NA
4-Methylphenol	ND	ND	ND	ND	ND	ND	NA
Naphthalene	ND	ND	ND	ND	ND	ND	NA
2-Nitroaniline	ND	ND	ND	ND	ND	ND	NA
3-Nitroaniline	ND	ND	ND	ND	ND	ND	NA
4-Nitroaniline	ND	ND	ND	ND	ND	ND	NA
Nitrobenzene	ND	ND	ND	ND	ND	ND	NA
2-Nitrophenol	ND	ND	ND	ND	ND	ND	NA
4-Nitrophenol	ND	ND	ND	ND	ND	ND	NA
N-Nitrosodiphenylamine	ND	ND	ND	ND	ND	ND	NA
N-Nitroso-Di-n-propylamine	ND	ND	ND	ND	ND	ND	NA
Pentachlorophenol	ND	ND	ND	ND	ND	ND	NA
Phenanthrene	ND	ND	ND	ND	ND	ND	NA
Phenol	ND	ND	ND	ND	ND	ND	NA
Pyrene	ND	ND	ND	ND	ND	ND	NA
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	NA
2,4,5-Trichlorophenol	ND	ND	ND	ND	ND	ND	NA
2,4,6-Trichlorophenol	ND	ND	ND	ND	ND	ND	NA

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<b>Polychlorinated Biphenyls</b>							
Aroclor 1016	ND	ND	ND	ND	ND	ND	NA
Aroclor 1221	ND	ND	ND	ND	ND	ND	NA
Aroclor 1232	ND	ND	ND	ND	ND	ND	NA
Aroclor 1242	ND	ND	ND	ND	ND	ND	NA
Aroclor 1248	ND	ND	ND	ND	ND	ND	NA
Aroclor 1254	ND	ND	ND	ND	ND	ND	NA
Aroclor 1260	ND	ND	ND	ND	ND	ND	NA

a) ND=analyte not detected at reporting limit

NA=not analyzed

J=estimated value below reporting limit

b) MW-19A 100 is a duplicate of MW-19