

REPORT # 10
LABORATORY ANALYSIS ON
NAVAL SAMPLES
(A/E Contract N6270-84-B-6932
JTC REPORT # 84-130

PREPARED FOR:
DEPARTMENT OF NAVY
ATLANTIC DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK, VA 23511

PREPARED BY:
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ROCKVILLE, MARYLAND 20850
DECEMBER 20, 1984

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0000005658

Ann E Rosecrance

Ann E. Rosecrance
Laboratory Director

JTC Environmental Consultants, Inc.

Date 12/20/84 Report No. 10 to Naval Facilities Engineering Command, Norfolk, Virginia

JTC Data Report No. 84-130 Table 1 Date of Sample Receipt 12-18-84

| NAVY SAMPLE ID | JTC SAMPLE ID | ANALYSIS PARAMETER | | | | | | |
|--|---------------------|--------------------------|--|--|--|--|-----------------|--|
| | | VOA | | | | | | |
| 12/14/84 HP WP Raw | 12-0232 | see attached Sheet | | | | | | |
| 12/15/84 HP water Plant Raw | 12-0233 | " | | | | | | |
| 12/16/84 Hadnot WP Raw | 12-0234 | " | | | | | | |
| 12/17/84 Hadnot Pt. Water Treat. Plant Raw | 12-0235 | " | | | | | | |
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Navy sample HPWP Raw 12/14/84 received 12/18/84

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JTC ENVIRONMENTAL CONSULTANTS, INC.
PRIORITY POLLUTANT ANALYSIS DATA SHEET

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VOLATILE FRACTION

LAB SAMPLE LOG NO. VOASPL 305 PROJECT NO. NF-12
SAMPLE DESIGNATION & DATE 12-0232 HPWP Raw 12/14/84
METHOD NO. 624 DETECTION LIMIT 20 ug/lit
ANALYSIS DATE 12/18/84

| PARAMETER | RESULT ug/lit | PARAMETER | RESULT ug/lit |
|-------------------------------------|------------------|----------------------------------|------------------|
| 2V acrolein | N.D. | 32V 1,2-dichloropropane | N.D. |
| 3V acrylonitrile | N.D. | 33V 1,3-dichloro- pylene | N.D. |
| 4V benzene | N.D. | 38V ethylbenzene | N.D. |
| 6V carbon tetrachloride | N.D. | 44V methylene chloride | N.D. |
| 7V chlorobenzene | N.D. | 45V methyl chloride | N.D. |
| 10V 1,2-dichloroethane | N.D. | 46V methyl bromide | N.D. |
| 11V 1,1,1-trichloro- ethane | N.D. | 47V bromoform | N.D. |
| 13V 1,1-dichloroethane | N.D. | 48V dichlorobromo- methane | 6.1* N.D. |
| 14V 1,1,2-trichloro- ethane | N.D. | 49V trichlorofluoro- methane | N.D. |
| 15V 1,1,2,2-tetra- chloroethane | N.D. | 50V dichlorodifluoro- methane | N.D. |
| 16V chloroethane | N.D. | 51V chlorodibromomethane | N.D. |
| 19V 2-chloroethylvinyl ether | N.D. | 85V tetrachloroethylene | N.D. |
| 23V chloroform | // N.D. | 86V toluene | N.D. |
| 29V 1,1-dichloroethylene | N.D. | 87V trichloroethylene | N.D. |
| 30V 1,2-trans-dichloro- ethylene | N.D. | 88V vinyl chloride | N.D. |

N.D. = NOT DETECTED
N.A. = NOT APPLICABLE/ANALYZED

* below method detection limit

Navy sample HP Water Plant Raw 12/1, 84 received 12/18/84



JTC ENVIRONMENTAL CONSULTANTS, INC.
PRIORITY POLLUTANT ANALYSIS DATA SHEET

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VOLATILE FRACTION

LAB SAMPLE LOG NO. VOASPL 306 PROJECT NO. NF-12
SAMPLE DESIGNATION & DATE 12-0233 HP Water Plant Raw 12/15/84
METHOD NO. 624 DETECTION LIMIT 10 ug/lit
ANALYSIS DATE 12/18/84

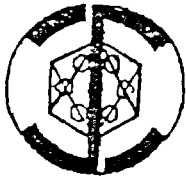
| PARAMETER | RESULT ug/lit | PARAMETER | RESULT ug/lit |
|---|------------------|--|--------------------------------|
| <u>2V acrolein</u> | <u>N.D.</u> | <u>32V 1,2-dichloropropane</u> | <u>N.D.</u> |
| <u>3V acrylonitrile</u> | <u>N.D.</u> | <u>33V 1,3-dichloro- pylene</u> | <u>N.D.</u> |
| <u>4V benzene</u> | <u>N.D.</u> | <u>38V ethylbenzene</u> | <u>N.D.</u> |
| <u>6V carbon tetrachloride</u> | <u>N.D.</u> | <u>44V methylene chloride</u> | <u>N.D.</u> |
| <u>7V chlorobenzene</u> | <u>N.D.</u> | <u>45V methyl chloride</u> | <u>N.D.</u> |
| <u>10V 1,2-dichloroethane</u> | <u>N.D.</u> | <u>46V methyl bromide</u> | <u>N.D.</u> |
| <u>11V 1,1,1-trichloro- ethane</u> | <u>N.D.</u> | <u>47V bromoform</u> | <u>N.D.</u> |
| <u>13V 1,1-dichloroethane</u> | <u>N.D.</u> | <u>48V dichlorobromo- methane</u> | <u>5.5*</u> N.D. |
| <u>14V 1,1,2-trichloro- ethane</u> | <u>N.D.</u> | <u>49V trichlorofluoro- methane</u> | <u>N.D.</u> |
| <u>15V 1,1,2,2-tetra- chloroethane</u> | <u>N.D.</u> | <u>50V dichlorodifluoro- methane</u> | <u>N.D.</u> |
| <u>16V chloroethane</u> | <u>N.D.</u> | <u>51V chlorodibromomethane</u> | <u>N.D.</u> |
| <u>19V 2-chloroethylvinyl ether</u> | <u>N.D.</u> | <u>85V tetrachloroethylene</u> | <u>N.D.</u> |
| <u>23V chloroform</u> | <u>10 N.D.</u> | <u>86V toluene</u> | <u>N.D.</u> |
| <u>29V 1,1-dichloroethylene</u> | <u>N.D.</u> | <u>87V trichloroethylene</u> | <u>N.D.</u> |
| <u>30V 1,2-trans-dichloro- ethylene</u> | <u>N.D.</u> | <u>88V vinyl chloride</u> | <u>N.D.</u> |

N.D. = NOT DETECTED

N.A. = NOT APPLICABLE/ANALYZED

* below method detection limit

Navy sample Hadnot WP Raw 12/16/84 received 12/18/84



JTC ENVIRONMENTAL CONSULTANTS, INC.
PRIORITY POLLUTANT ANALYSIS DATA SHEET **0000005662**

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VOLATILE FRACTION

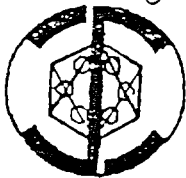
LAB SAMPLE LOG NO. VOASPL 307 PROJECT NO. NF-12
SAMPLE DESIGNATION & DATE 12-0234 Hadnot WP Raw 12/16/84
METHOD NO. 624 DETECTION LIMIT 10 ug/lit
ANALYSIS DATE 12/18/84

| PARAMETER | RESULT ug/lit | PARAMETER | RESULT ug/lit |
|-------------------------------------|------------------|----------------------------------|------------------|
| 2V acrolein | N.D. | 32V 1,2-dichloropropane | N.D. |
| 3V acrylonitrile | N.D. | 33V 1,3-dichloro- pylene | N.D. |
| 4V benzene | N.D. | 38V ethylbenzene | N.D. |
| 6V carbon tetrachloride | N.D. | 44V methylene chloride | N.D. |
| 7V chlorobenzene | N.D. | 45V methyl chloride | N.D. |
| 10V 1,2-dichloroethane | N.D. | 46V methyl bromide | N.D. |
| 11V 1,1,1-trichloro- ethane | N.D. | 47V bromoform | N.D. |
| 13V 1,1-dichloroethane | N.D. | 48V dichlorobromo- methane | 4.0* N.D. |
| 14V 1,1,2-trichloro- ethane | N.D. | 49V trichlorofluoro- methane | N.D. |
| 15V 1,1,2,2-tetra- chloroethane | N.D. | 50V dichlorodifluoro- methane | N.D. |
| 16V chloroethane | N.D. | 51V chlorodibromomethane | N.D. |
| 19V 2-chloroethylvinyl ether | N.D. | 85V tetrachloroethylene | N.D. |
| 23V chloroform | 4.3* N.D. | 86V toluene | N.D. |
| 29V 1,1-dichloroethylene | N.D. | 87V trichloroethylene | N.D. |
| 30V 1,2-trans-dichloro- ethylene | N.D. | 88V vinyl chloride | N.D. |

N.D. = NOT DETECTED
N.A. = NOT APPLICABLE/ANALYZED

* below method detection limit

Navy sample Hadnot Pt. Water Treat. Pla Raw 12/17/84 received 12/18



JTC ENVIRONMENTAL CONSULTANTS, INC.
PRIORITY POLLUTANT ANALYSIS DATA SHEET

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VOLATILE FRACTION

LAB SAMPLE LOG NO. VOASPL 308 PROJECT NO. NF-12
SAMPLE DESIGNATION & DATE 12-0235 Hadnot Pt. Water Treat. Plant Raw 12/17
METHOD NO. 624 DETECTION LIMIT 10 ug/lit
ANALYSIS DATE 12/18/84

| PARAMETER | RESULT | PARAMETER | RESULT |
|-------------------------------------|-------------------------|----------------------------------|-------------------------|
| | ug/lit | | ug/lit |
| 2V acrolein | N.D. | 32V 1,2-dichloropropane | N.D. |
| 3V acrylonitrile | N.D. | 33V 1,3-dichloro- pylene | N.D. |
| 4V benzene | N.D. | 38V ethylbenzene | N.D. |
| 6V carbon tetrachloride | N.D. | 44V methylene chloride | N.D. |
| 7V chlorobenzene | N.D. | 45V methyl chloride | N.D. |
| 10V 1,2-dichloroethane | N.D. | 46V methyl bromide | N.D. |
| 11V 1,1,1-trichloro- ethane | N.D. | 47V bromoform | N.D. |
| 13V 1,1-dichloroethane | N.D. | 48V dichlorobromo- methane | 2.5* N.D. |
| 14V 1,1,2-trichloro- ethane | N.D. | 49V trichlorofluoro- methane | N.D. |
| 15V 1,1,2,2-tetra- chloroethane | N.D. | 50V dichlorodifluoro- methane | N.D. |
| 16V chloroethane | N.D. | 51V chlorodibromomethane | N.D. |
| 19V 2-chloroethylvinyl ether | N.D. | 85V tetrachloroethylene | N.D. |
| 23V chloroform | 3.1* N.D. | 86V toluene | N.D. |
| 29V 1,1-dichloroethylene | N.D. | 87V trichloroethylene | N.D. |
| 30V 1,2-trans-dichloro- ethylene | N.D. | 88V vinyl chloride | N.D. |

N.D. = NOT DETECTED
N.A. = NOT APPLICABLE/ANALYZED

* below method detection limit