

## SCIENCE INFORMATION EXCHANGE

SMITHSONIAN INSTITUTION

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WASHINGTON, D.C. 20036

SIE NO.

GUW-1988

## NOTICE OF RESEARCH PROJECT

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                                    |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------|--|
| SUPPORTING AGENCY:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  | AGENCY'S NUMBER(S):                |  |
| INTERIOR DEPARTMENT<br>OFFICE OF WATER RESOURCES RES.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | A-044-MICH                         |  |
| TITLE OF PROJECT:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                                    |  |
| MAGNITUDE AND NATURE OF POLYCHLORINATED BIPHENYLS IN COHO SALMON                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                                    |  |
| PRINCIPAL INVESTIGATOR, ASSOCIATES AND DEPARTMENT/SPECIALTY:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                                    |  |
| PROF NC LEELING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ENTOMOLOGY                         |  |
| RECIPIENT INSTITUTION:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  | PERIOD FOR THIS NRP:               |  |
| MICHIGAN STATE UNIVERSITY<br>SCHOOL OF AGRICULTURE<br>NEW ADMINISTRATION BLDG.<br>EAST LANSING, MICHIGAN 48823                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | 7/70 TO 6/71<br>FY71 FUNDS \$4,550 |  |
| SUMMARY OF PROJECT:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                                    |  |
| <p>The proposed research plan involves laboratory investigations aimed at determining the amount of polychlorinated biphenyl (PCB) and terphenyl compounds present in Coho salmon from Lake Michigan and the chemical identity of each major component. The main approach will entail organic solvent extraction of salmon samples, column chromatographic separation of chlorinated components into a DDT-complex fraction and a PCB fraction and a gas chromatographic-mass spectrometric characterization of the individual components.</p> <p>The data will provide an accurate determination of PCB residue levels and their composition in Coho salmon, thus permitting a rational interpretation of the significance of these compounds with respect to the fish.</p> |  |                                    |  |

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