



State of New Jersey.

DEPARTMENT OF ENVIRONMENTAL PROTECTION,
TRENTON 08625

NJ/KA8
E5/W5 c.2
1971

OFFICE OF THE COMMISSIONER

NOTICE OF PUBLIC HEARING

TAKE NOTICE, that the New Jersey State Department of Environmental Protection will hold a public hearing on a proposed WETLANDS ORDER, applicable to a portion of Ocean County and Salem County described in greater detail herein. The hearing will be held in two parts at the following places on the dates shown:

PART 1 - (Salem County) - January 19, 1972 - 1:00 p.m.
and continuing a second day, January 20, 1972 at
9:00 a.m. if necessary.

Holiday Inn
Exit 1, N.J. Turnpike and Interstate Highway 295
Upper Penns Neck Township, New Jersey


PART 2 - (Ocean County) - January 24, 1972 - 1:00 p.m.
and continuing a second day, January 25, 1972, at
9:00 a.m. if necessary.

Ocean County College
Lecture Hall
Hooper Avenue
Dover Township, New Jersey (Toms River)

This hearing will be held in accordance with the provisions of the Wetlands Act of 1970, Chapter 272, P.L. 1970.

All testimony offered to the department orally or in writing at the hearing will be considered. Also, all testimony offered to the department in writing and received by the department prior to February 15, 1972 will be considered.

The text of order to be considered at public hearing is presented on the following pages. Copies of forms for ordering wetlands maps are attached.


Richard J. Sullivan
State Commissioner of Environmental
Protection

Date of this Notice: November 15, 1971

FOREWORD

The wetlands of New Jersey form an important and irreplaceable link in the chain of life of the estuarine ecology. They serve as a buffer to absorb the force of storms which would otherwise spend themselves, with loss of life and property, on the upland. They produce tons of food every year on which thrive countless numbers of fish and other marine organisms. The wetlands are also extremely fragile. Covering them with fill, altering the tidal ebb and flow, and changing their natural contour destroys their value.

The wetlands in their natural state are one of the important features of the Jersey shore which attracts thousands of visitors every year to the seaside or bays. They come because the area is blessed by clean water, and the recreational opportunities presented by fishing and hunting. They come because the area is uncrowded, and it is possible to enjoy natural vistas unmarred by the hand of man.

Yet, because so many people have been attracted to the area, and because wetlands acreage is relatively cheap to purchase, the wetlands are now severely threatened. Over the past twenty years, we have lost a substantial portion of New Jersey's coastal marshes. These losses are irreplaceable, and have put a great stress on the fragile ecology of the wetlands. In this area, it is not a case of preserving the fish and the marsh at the expense of man. Man and the wetlands are closely related not only in terms of public safety, food production, and health, but also in terms of economics. If the wetlands are not preserved in a natural state those very features which make the New Jersey shore attractive to visitors will be destroyed, and man will suffer.

The basis document which follows sets forth in detail the reasons the wetlands need to be protected, and explains the way regulations will work. The regulation of the wetlands is an attempt to inject balance into the process of change that occurs everywhere, but has been occurring with great rapidity and equally great and often unfortunate impact on the Jersey shore.

Although environmental problems have only been recently injected into the public consciousness and consequently into the political and legal process, certain wise men have long been aware of them. George Perkins Marsh, the father of the American environmental thought, summed up the whole problem of the wetlands which we are now dealing with in his book *Man and Nature*, written in 1864.

Man has too long forgotten that the earth was given to him for usufruct alone, not for consumption, still less for profligate waste. Nature has provided against the absolute destruction of any of the elementary materials of her works, the thunderbolt and the tornado, the most convulsive throes of even the volcano and earthquake being only the phenomena of decomposition and recomposition. But she has left it within the power of man irreparably to derange the combinations of inorganic matter and organic life, which through the night of aeons she has been proportioning and balancing, to prepare the earth for his habitation, when in the fullness of time, his Creator should call him forth to enter into its possession.

In the case of wetlands destruction the ability of man to destroy irreparably must be restricted if we are to survive, for in this fragile wetlands ecology the enemy of man is man.

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
PROPOSED WETLANDS ORDER

1.0 AREA AFFECTED

The Commissioner of Environmental Protection, to promote public safety, health and welfare, protect public and private property, wildlife and marine fisheries, and to preserve, protect, and enhance the natural environment, hereby adopts the following orders which shall be applicable to Wetlands areas delineated on Wetlands map numbers: 252-2076, 2088, 2094, 2100; 245-2094, 2100; 259-2070, 2076, 2082, 2088, 2094; 266-2070, 2076, 2082, 2088; 273-2076, 2088 which are on file in the Office of the County Recording Officer, Toms River, Ocean County; and numbers: 287-1764, 1770; 294-1764, 1770 which are on file in the Office of the County Recording Officer in Salem, Salem County.

2.0 DEFINITIONS

For the purpose of this Order, unless the context clearly indicates otherwise, the following words shall have the following meanings:

2.1 ACT: The Wetlands Act of 1970 (N.J.S.A. 13:9A-1 et seq.)

2.2 AQUACULTURE: The rearing of aquatic organisms, plants or animals, under controlled conditions using the techniques of plant or animal husbandry.

2.3 AREA AFFECTED: Those portions of coastal wetlands to which this Order applies.

2.4 COASTAL WETLANDS OR WETLANDS: Any bank, marsh, swamp, meadow, flat or other low land subject to tidal action including those areas now or formerly connected to tidal waters whose surface is at or below an elevation of one foot above local extreme high water, and upon which may grow or is capable of growing some, but not necessarily all, of the following: Salt meadow grass (*Spartina patens*), spike grass (*Distichlis spicata*), black grass (*Juncus gerardi*), salt-marsh grass (*Spartina alterniflora*), saltworts (*Salicornia Europaea*, and *Salicornia bigelovii*), Sea Lavendar (*Limonium carolinianum*), saltmarsh bulrushes (*Scirpus robustus* and *Scirpus paludosus* var. *atlanticus*), sand spurrey (*Spergularia marina*), switch grass (*Panicum virgatum*), tall cordgrass (*Spartina pectinata*), hightide bush (*Iva frutescens* var. *oraria*), cattails (*Typha angustifolia*, and *Typha latifolia*), spike rush (*Eleocharis rostellata*), chairmakers rush (*Scirpus americana*), bent grass (*Agrostis palustris*), and sweet grass (*Hierochloa odorata*).

2.5 COMMISSIONER: The Commissioner of Environmental Protection.

2.6 DEPARTMENT: The State Department of Environmental Protection.

2.7 FILLING: The displacement of the waters of the State by the deposition of sand, gravel, earth or other materials or the artificial alteration of the levels of such waters by structures, drainage ditches or otherwise.

2.8 GOVERNMENTAL AGENCIES: The Government of the United States, the State of New Jersey, or any other states, their political subdivisions, agency, or instrumentality thereof, and interstate agencies.

2.9 LOCAL EXTREME HIGH WATER: Any point of intersection of the land surface with a horizontal plane surface passing through the closest point of extreme high water identified in the records of the U.S. Geological Survey.

2.10 MINING: The removal or recovery by any means whatsoever of minerals, mineral substances and/or organic substances from the water, the land surface, or beneath the land surface, whether exposed or submerged.

2.11 PERSON: Includes corporations, companies, associations, societies, firms, partnerships and joint stock companies as well as individuals and governmental agencies.

2.12 PERSISTENT PESTICIDES: Pesticides whose residues and metabolic products persist in the environment over extended periods of time, including but not limited to DDT, Methoxychlor, Aldrin, Dieldrin, Chlordane, and Heptachlor.

2.13 PESTICIDE: Any substance or mixture of substances labeled, designed, intended for or capable of use in preventing, destroying, repelling, sterilizing, or mitigating any insects, rodents, nematodes, predatory animals, fungi, weeds and other forms of plant or animal life or viruses except viruses on or in living man or other animals; also, any substance or mixture of substances labeled, designed or intended for use as a defoliant, desiccant or plant regulator.

2.14 PROHIBITED ACTIVITY: Any activity upon or use of wetlands which shall not be permitted under any circumstances.

2.15 REGULATED ACTIVITY: Any activity upon or use of wetlands which requires a permit from the Commissioner.

2.16 STRUCTURE: Any assembly of materials above or below the surface of land or water, including but not limited to, houses, buildings, industrial plants,

bulkheads, jetties, wharves, piers, docks, landings, dams, fences, waterway obstructions, pipelines, causeways, and roads.

2.17 UPLANDS: Any land area shown on any wetlands map which is landward of the wetlands boundary.

2.18 WETLANDS BOUNDARY: Any line shown on any wetlands map which denotes the landward boundary of an area of coastal wetlands.

2.19 WETLAND MAP: Any map prepared by the Department and filed pursuant to the provision of the Act.

3.0 REGULATED ACTIVITIES (Type A)

3.1 No person shall hereafter engage in a regulated activity (Type A) in the area affected until he has received the permission of the Commissioner. Such permission shall be evidenced by a permit issued by the Commissioner.

3.2 TYPE A PERMITS (Abbreviated Procedure) may be issued for the reconstruction, repair, or renovation of existing structures or facilities in wetlands in a manner which will not increase the area covered by the structures or facilities and/or which has a total construction cost of not more than \$5,000, and for the construction of new facilities which have a total cost of less than \$5,000. Type A activities shall consist of the following:

3.2.1 The cultivation and harvesting of natural agricultural or horticultural products.

3.2.2 The excavation of a small boat mooring slip for non-commercial uses by the owner of the land, providing no spoil is placed upon any wetlands.

3.2.3 The repair of existing sea walls, providing no extension is proposed.

3.2.4 The normal maintenance or repair of presently existing roads, highways, railroad beds, or the facilities of any utility or municipality abutting on or crossing wetlands, provided that no waterway is altered and no additional wetlands are covered.

3.2.5 The repair or replacement of bridges in a manner that will not enlarge or alter the existing encroachment on coastal wetlands or flowing waters.

3.2.6 The establishment and operation of conservation preserves.

3.2.7 The establishment and/or operation of areas for scientific research.

3.2.8 The construction and maintenance of catwalks, wharves, boathouses, piers, docks, landings, boat shelters, fences, duckblinds, wildlife management shelters, foot bridges, and observation decks, provided that such structures are built on pilings in accordance with the following restrictions:

3.2.8.1 The minimum length of pilings shall be

such that no part of the structure proper shall be closer than 10 feet to the surface of the wetlands; however, a lesser clearance may be permitted if the applicant can demonstrate to the satisfaction of the Commissioner that this lesser clearance is sufficient to protect the structure during periods of local extreme high water.

3.2.8.2 The width of any structure built on pilings shall not exceed twice the clearance between the structure proper and the surface of the wetlands.

3.2.8.3 Structures, other than piers, catwalks, wharves, docks, and landings, shall not be permitted within a distance of 75 feet from any tidal waterway.

3.3 APPLICATION PROCEDURE: To obtain a Type A Permit, a person shall apply in writing to the Commissioner. The application shall contain the following:

3.3.1 The name and address of the applicant.

3.3.2 A copy of the deed or other instrument under which the applicant claims title to the property on which the proposed activity will be conducted. If the applicant is not the owner, a copy of the deed or other instrument under which the owner claims title, together with written permission from the owner, witnessed by a Notary Public, to conduct the activity on his land. In lieu of a deed or other instrument, the Commissioner may accept, at his discretion, some other reasonable evidence of ownership of the property.

3.3.3 A written explanation of the proposed activity and its need.

3.3.4 A copy of applicant's notification to the local governing body of the municipality in which the property is located which describes the proposed activity, and informs the local governing body that application is being made to the Department under the provisions of the *Wetlands Act of 1970*.

3.3.5 Two (2) copies of a detailed plan of the proposed activity which shall include: A specific location map of the area shown on a section, tracing, or photocopy of the wetlands map; the precise location of all boundaries of the area in State Plane Coordinates keyed to the specific location map; and a detailed description of any proposed structures or excavation, including the method of construction to be used; and a statement of the total cost thereof.

3.3.6 A complete description of measures to be taken during and after construction to reduce detrimental offsite effects.

3.3.7 A certified check or money order in the amount of \$25.00 payable to the Department, which processing fee shall be non-refundable.

3.4 REVIEW PROCEDURE: The Commissioner shall review the application to determine that it is a

Type A activity, and if he determines that the proposed project is not a Type A activity, he shall so notify the applicant in writing and return the application.

3.5 If the Commissioner determines that the application is for a Type A activity, he shall issue a permit only if he finds that the proposed project:

3.5.1 Requires water access or is water oriented as a central purpose of the basic function of the activity.

3.5.2 Has no prudent or feasible alternative on a non-wetland site.

3.5.3 Will result in minimum feasible alteration or impairment of natural tidal circulation.

3.5.4 Will result in minimum feasible alteration or impairment of the natural contour or the natural vegetation of the wetlands.

3.6 The Commissioner may require the applicant to submit any additional information he requires to make the above determinations, and may impose such conditions on the method of conduct of the Type A activity as he deems appropriate to meet the criteria of Section 3.5, and to promote the public safety, health, and welfare, to protect public and private property, wildlife and marine fisheries, and to preserve, protect, and enhance the natural environment.

3.7 No person shall engage in a Type A activity until he has received a permit and has recorded said permit in the Office of the County Recording Officer for the county in which the wetland is located and has posted prominently at the worksite a copy of the permit. Any permit not recorded within 60 days of issuance shall be null and void. All permits shall expire one year from the date of issue. This period may be extended, upon written application, at the discretion of the Commissioner. By recording the Type A permit as provided in this section, the recipient thereby demonstrates his agreement to all conditions imposed in the permit including the manner in which the regulated activity is to be conducted. The permit may be revoked for any violation of the Act, this Order, or any condition in the permit.

3.8 The Commissioner, or a member of the Department designated by him, at his discretion shall hold a hearing to afford interested parties the opportunity to present their position concerning an application in order to assist him in making the determination required by Section 3.5.

4.0 REGULATED ACTIVITIES (TYPE B)

4.1 No person shall hereafter engage in a regulated activity (Type B) in the area affected until he has received the permission of the Commissioner. Such permission shall be evidenced by a permit issued by the Commissioner.

4.2 Type B Permits (Full Procedure) may be issued for activities such as but not limited to the following:

4.2.1 Aquaculture.

4.2.2 Commercial recreation activities including boating, trapping, hunting, fishing, shellfishing and swimming.

4.2.3 The installation and maintenance of utilities.

4.2.4 Excavation for boat channels and mooring basins.

4.2.5 Wildlife management impoundments including related excavations.

4.2.6 The construction of single lane driveways and paths.

4.2.7 The construction and maintenance of beaches and boat launching ramps in areas with existing access to the water.

4.2.8 The construction of sea walls to protect existing developed areas on uplands adjacent to coastal wetlands.

4.2.9 Any permanent physical change to the wetlands.

4.2.10 Any modification which will significantly alter the natural tidal circulation, the natural contour, or the natural vegetation of the wetlands.

4.2.11 Appropriative use or consumption of water.

4.2.12 Diversion of water.

4.2.13 Use, storage, or disposal of pesticides.

4.2.14 Construction of any structure except as otherwise provided in this Order.

4.3 APPLICATION PROCEDURE: To obtain a Type B Permit, a person shall apply in writing to the Commissioner. The application shall be submitted in duplicate and shall contain the following:

4.3.1 The name and address of the applicant.

4.3.2 A copy of the deed or other instrument under which the applicant claims title to the property on which the proposed activity will be conducted. If the applicant is not the owner, a copy of the deed or other instrument under which the owner claims title, together with written permission from the owner, witnessed by a Notary Public, to conduct the activity on his land. In lieu of a deed or other instrument, the Commissioner may accept, in his discretion, some other reasonable evidence of ownership of the property.

4.3.3 A list of all adjoining current record landowners together with their addresses. If the identity of any adjoining landowner cannot be determined or if their addresses cannot be ascertained, the applicant shall file a sworn affidavit that a reasonable and diligent search has been conducted. In the event the property to be affected by the applicant is bordered by other property owned or controlled by the applicant, he shall supply the names and addresses of the next adjacent

landowners or a sworn statement that a reasonable and diligent search was conducted.

4.3.4 A copy of applicant's notification to the local governing body of the municipality in which the property is located which describes the proposed activity, and which informs the local governing body that application is being made to the Department under the provision of the Wetlands Act of 1970.

4.3.5 A general location map, which may be a readable photocopy of a section of a recent ordinary highway map indicating the exact location of the activity at the cross point of an "X" superimposed on said map.

4.3.6 A specific location map, which shall be a section or tracing or photocopy of the recorded wetland map or maps including the activity area, with a legible outline of the activity superimposed.

4.3.7 A detailed plan of the proposed activity, drawn to an appropriate and uniform scale, indicating the area(s) of existing and proposed fill and excavation, if any; existing and proposed finished elevations; all existing and proposed structures, sewage collection and treatment facilities, utility installations, roadways, parking areas, and other related appurtenances or facilities, including those on adjacent uplands, and the type of equipment to be used and the means of equipment access to the activity site.

4.3.8 A written explanation of the proposed activity and its need, including a future activities plan.

4.3.9 An environmental impact statement as specified hereafter.

4.3.10 The location of freshwater outflows, such as aquifers and springs, where known or identified.

4.3.11 Maximum recorded hurricane and storm tides in the area.

4.3.12 Any additional information which the applicant desires to convey to the Department relative to the proposed activity.

4.3.13 A certified check or money order in the amount of \$25.00 for each acre of land or fraction thereof to be affected, payable to the Department, which processing fee shall be non-refundable. No applicant shall be required to pay in excess of \$500.00 for any one proposal regardless of the number of acres to be affected.

4.4 ENVIRONMENTAL IMPACT STATEMENT: The environmental impact statement shall describe and analyze all possible direct and indirect effects of the proposed activity on the site itself as well as on adjacent and non-contiguous areas with particular reference to the effect of the project on the public safety, health, and welfare, the protection of public and private property, the public trust in submerged lands and wildlife, the protection of wildlife and marine fisheries, the protection, preservation, and enhancement of the

natural environment, and the preservation of the ecological balance of Wetlands. It shall relate the ecological and physical characteristics of the proposed activity site to the local and regional functioning of microscopic marine life, vegetation, birds, mammals, tidal circulation, hydrology, meteorology, geology, soils, land use, recreation, and history, and, in addition, it shall describe and analyze:

4.4.1 Alternatives to the proposed action that would reduce or avoid environmental damage, including the no-action alternative.

4.4.2 The relationship between local short-term uses of man's environment and the maintenance and enhancement of long term productivity.

4.4.3 Temporary and permanent physical changes which would be caused by the proposed activity and the impact of these changes on the activity area and immediate environs.

4.4.4 Any irreversible or irretrievable commitment of resources which would be involved in the proposed activity.

4.4.5 Adverse environmental impact which cannot be avoided during, as well as after, construction.

4.4.6 All measures to be taken during and after construction to reduce detrimental off-site effects.

4.4.7 The reasons that structures cannot be located on uplands.

4.4.8 Plans for the prevention of future erosion if vegetation is to be disturbed.

4.4.9 The exact nature of any water use or consumption, including processes involved, quantity of water, methods for ultimate disposal of any water used and the quality and quantity of any discharge water.

4.4.10 The type, quantity, method of application, and dose rate of any pesticide proposed to be used.

4.5 APPLICATION EXAMINATION: The Commissioner shall examine the application to determine that it is a Type B activity, and, if he determines that the proposed project is not a Type B activity, he shall so notify the applicant in writing within 30 days and return the application. Within 30 days following receipt of an application, the Commissioner shall notify the applicant in writing regarding the completeness for filing of the application. The Commissioner may accept the application as complete for filing or may notify the applicant concerning deficiencies. The application shall not be considered to be filed until it has been declared by the Commissioner to be complete.

4.6 HEARING: Prior to approving any Type B permit, the Commissioner, or a member of the Department designated by him, shall hold a hearing to afford interested parties the opportunity to present their

position and any data they may have developed in reference to the environmental effects of the proposed activity.

4.6.1 The Commissioner, within 30 days of his determination that an application is complete for filing, shall notify in writing all adjoining landowners and the local governments involved in the application and shall set a date for a hearing on the application.

4.6.1.1 A notice of the proposed activity and an announcement of the date, place, and time of the hearing on the application shall be caused by the Commissioner to be published in a newspaper of general circulation in the county in which the land is located. The applicant shall remit the cost of publication to the Department before the date of publication.

4.6.1.2 In the event the application is accepted for filing during the period from October 1 of one year to May 30 of the succeeding year, the Commissioner may defer the hearing on the application and a decision to grant or deny it until the environmental conditions of the wetlands are suitable for on-site inspection.

4.6.2 All interested persons shall be afforded an opportunity to appear at the hearing or to notify the Commissioner in writing of their position regarding the proposed project.

4.7 REVIEW PROCEDURE: The Commissioner shall apply the following criteria when reviewing the filed application and any information presented at the hearing:

4.7.1 The degree to which liquid effluents from all spoil retention area outlets preserve or substantially affect aquatic ecosystems.

4.7.2 The degree to which filling and mining activities can be avoided.

4.7.3 The degree to which dikes are vegetated to prevent erosion.

4.7.4 The degree to which all upland alternatives for the disposal of mined substances have been explored.

4.7.5 The degree to which mining and filling does not create stagnant water conditions, fish entrapments, and deposit sumps.

4.7.6 The degree to which the proposed activity controls erosion.

4.7.7 The degree to which the proposed activity provides facilities for the proper handling of litter, trash, refuse, and sanitary and industrial wastes.

4.7.8 The degree to which the proposed activity is water-dependent or water-related.

4.7.9 The degree of danger arising from hurricanes,

floods, or other determinable and periodically recurring natural hazards.

4.7.10 The degree to which any aspect of food chain or plant, animal, fish, or human life processes are affected adversely within or beyond the activity area.

4.7.11 The degree to which marine and/or land traffic generated by the proposed activity can be prevented from giving rise to safety and related traffic-flow problems.

4.7.12 The degree of public advantage or disadvantage to which the proposed activity gives rise.

4.7.13 The degree to which irreplaceable land types will be destroyed.

4.7.14 The degree to which the natural, scenic, and aesthetic values at the proposed activity site can be retained.

4.7.15 The degree to which filling and mining operations connected with a proposed activity will be curtailed during known or estimated periods of fish migration and spawning activity.

4.7.16 The degree to which the proposed activity alters natural water flow, water temperature, and natural tidal circulation regimes.

4.7.17 The degree to which the proposed activity ecologically enhances the aquatic environment.

4.7.18 The degree to which economically reasonable alternatives to the proposed activity exist by utilization of either adjacent fast lands in common ownership or by modification of the application submitted.

4.7.19 The degree to which the proposed activity serves the public need and interest and the free public access to beaches and navigable waters.

4.7.20 The degree to which the proposed activity will result in minimum feasible alteration or impairment of the natural contour or the natural vegetation of the Wetlands.

4.8 The Commissioner may require, after the hearing, an applicant to submit any additional information necessary for the complete review of the application.

4.9 If the Commissioner, in applying the criteria of Section 4.7, finds that the proposed activity would violate or tend to violate the purposes and intent of the Act and this Order, he may deny the application, or he may approve the application and impose such conditions as are necessary to promote the public safety, health, and welfare and to protect public and private property, wildlife, and marine fisheries, and to preserve, protect, and enhance the natural environment. The Commissioner shall, within 60 days of the receipt of all information, notify the applicant of his determination, and he may require the posting of a performance bond.

4.10 No person shall engage in a Type B activity until he has received a permit and has recorded said permit in the Office of the County Recording Officer for the county in which the wetland is located and has posted prominently a copy of the permit on the work site. Any permit not recorded within 30 days of issue shall be null and void. All permits shall expire one year from the date of issue. This period may be extended upon written application at the discretion of the Commissioner. Two copies of any permit approved, stating any conditions imposed by the Commissioner, shall be provided the applicant.

4.11 By the recording of the permit to engage in a regulated activity, the applicant demonstrates acceptance of all conditions imposed in said permit including the manner in which the regulated activity is to be conducted. Any permit may be revoked by the Commissioner for non-compliance with or for violation of the terms of the permit.

4.12 In the event of rental, lease, sale or other conveyances by an applicant to whom a permit is issued, such permit, with any conditions, shall be continued in force and shall apply to the new tenant, lessee, owner, or assignee so long as there is no change in the use of the land set forth in the original application.

4.13 The denial of an application shall in no way adversely affect the future submittal of a new application.

5.0 PROHIBITED ACTIVITIES

5.1 No person shall engage in or cause other persons to engage in prohibited activities in the area affected.

5.2 Except as otherwise authorized under this Order, the following activities shall be prohibited:

5.2.1 Placing, depositing, or dumping any garbage, refuse, trash, rubbish, or debris.

5.2.2 Dumping or discharging treated or untreated domestic sewage or industrial wastes, either solid or liquid.

5.2.3 Applying any pesticide on areas containing significant stands of salt marsh cordgrass, three square,

wild rice, and cattail as shown, generally, on wetlands maps.

5.2.4 Applying persistent pesticides to coastal wetlands.

5.2.5 Driving or causing to pass over or upon wetlands any mechanical conveyance which may alter or impair the natural contour of the wetlands or the natural vegetation including, but not limited to, snowmobiles, motorcycles and marsh buggies.

6.0 OTHER STATE STATUTES, RULES AND REGULATIONS

6.1 The powers, duties, and functions vested in the department under the provisions of this Act or Order shall not be construed to limit in any manner the powers, duties, and functions vested therein under any other provisions of law.

7.0 LOCAL ORDINANCES

7.1 Local ordinances imposing standards more restrictive than those contained herein shall not be superceded.

8.0 APPEALS

8.1 The Commissioner shall have the power to hear and decide appeals concerning all decisions pursuant to this Order.

9.0 EXCEPTIONS

9.1 In the event of a declared public health emergency, pesticide applications in wetlands necessary to protect public health and welfare may be authorized by the State Commissioner of Health and this Order shall not apply.

9.2 This Order shall not apply to the continuance of cultivation and harvesting of natural agricultural or horticultural products on lands being used for these activities on the effective date of this Order.

9.3 This Order shall not apply to normal non-commercial owner-enjoyment activities including, but not limited to, fishing, boating, hunting, shellfishing, swimming, and trapping.

WETLANDS ORDER

BASIS AND BACKGROUND

1.0 WETLANDS MAPS

1.1 Wetlands photomaps, bearing a certificate of the Commissioner, Department of Environmental Protection, have been prepared, and are on file pursuant to "The Wetlands Act of 1970" in the offices of those country recording officers where wetlands are located.

1.1.1 The "ORDER" accompanying this BASIS does *not* apply to those lands *upland* of the wetland boundary shown on filed photomaps.

1.1.2 Lands shown on filed photomaps *below* (seaward of) the wetlands boundary are WETLANDS, and all "ORDERS" promulgated by the Commissioner shall be applicable to these lands.

1.1.3 If no wetland boundary is shown on filed photomaps, all lands on the map or maps are WETLAND, and all "ORDERS" promulgated by the Commissioner shall be applicable to such lands.

1.1.4 "The Wetlands Act of 1970" requires that all WETLANDS be inventoried. The inventory appears on all photomaps filed pursuant to the Act.

1.2 Those portions of each filed photomap designated as WETLANDS (below the boundary or the entire map where a boundary is non-existent) meet *national map accuracy standards*. At this scale, these standards require that 90% of *well-defined map features* be positioned on maps within 1/30 inch (6.67') of their correct location with respect to basic ground control. Basic ground control refers to previously established government agency surveys. Where control was non-existent, insufficient, or not recoverable, new surveys were performed by a registered surveyor to insure photomap accuracy. Traverses run through panelled ground control points closed within one (1) part in 52,000; this accuracy exceeds "SECOND ORDER" survey requirements.

1.2.1 Within the WETLANDS, major species associations are delineated (inventoried) by 0.013 inch wide lines. At photomap scale (1:2400 or 1" = 200'), these line widths represent 2.5 feet (approximately) on the ground. These "inventory lines" encompass those natural groups (species associations) of plant species occurring as mappable units, also, they have unique tones on aerial-type photographic film. Inventory lines *may* conform to national map accuracy standards, but the Department does *not* claim that degree of accuracy for the horizontal placement of lines bounding naturally occurring species groups. These groups, taken together, constitute the *WETLANDS INVENTORY*.

1.2.1.1 Inspection of filed photomaps shows that WETLANDS inventory lines do abut WETLANDS boundary lines. In these cases, boundary lines are used to close inventory lines.

1.2.1.2 Inventory alphabetical and numerical descriptors are keyed to filed photomap Legends. Alphabetical designators are assigned to plant species occurring in salt water WETLANDS; numerical designators apply to fresh water species. Combinations of alphabetical and numerical designators are *indicative* of brackish water WETLANDS. Photomap "Legend" designator order, whether alphabetical or numerical, has no significance. The Department *emphasizes* that no relationship exists between the alphabetical or numerical order of designators and the nutrient (biological) value of plant species, the values of any given property, or any Department interest in a particular property or area.

1.2.1.3 Filed photomap inventory lines bound naturally occurring species groups whose area either equals or exceeds five (5) acres. Inventories of this size or larger will be useful to those responsible for the preparation of gross marsh productivity estimates; precise marsh productivity data (research) can be generated by intensive, localized field investigation.

If single or multiple species, bounded by an inventory line, in a saline WETLAND are described on filed photomaps by either alphabetical or numerical designators, those species will be present on at least twenty-five (25) percent of the acreage circumscribed by the inventory line. Species of possible minor ecological significance may be present. Such species are not mapped, because they may change rapidly from season to season and may even change in abundance within growing seasons.

In some fresh water WETLANDS, species lines do not fall along any distinct vegetative line. The lines drawn encompass distinct portions of the WETLAND and enclose sparsely-vegetated areas interspersed with considerable open water.

1.2.1.4 In many areas, filed photomap inventory lines bound a species or species group of less than five (5) acres. The Department does not adhere to the normal five (5) acre guideline in these instances for two reasons:

(1) Ecological (Wild rice areas of less than five (5) acres may be inventoried because of their food value to waterfowl.)

(2) Practical (Department field personnel must inspect complex biological areas; easily located reference points aid investigators and contribute to increased efficiency.)

1.2.2 The WETLANDS boundary, above which promulgated "ORDERS" do not apply and below which promulgated "ORDERS" do apply, is shown on all applicable filed photomaps by a continuous 0.025 inch wide line. At photomap scale (1:2400), this line width is equivalent to 5.0 feet measured on the ground. This boundary may conform to national map accuracy standards, but the Department does not claim that degree of accuracy (6.67') for its horizontal placement. The horizontal position accuracy of the boundary line does not exceed plus or minus (\pm) ten (10) feet of the true line position as measured on the ground.

1.2.2.1 The true line position in areas where local relief changes abruptly (from 1.5 to 9.0 feet) is placed at the break in slope. Uplands are dry as compared to Wetlands. Plant species occurring at this boundary may include: *Spartina patens*, *Iva frutescens*, *Panicum virgatum*, *Typha* Species, *Phragmites*, and *Baccharis halimifolia*; most of these species are tabulated in "The Wetlands Act of 1970." Common dryland species just upland of this boundary may include: Arrowwood, Cedar, Pine, and various hardwoods including Oak, Tulip, Poplar, and Hickory; none of these species are listed in "The Wetlands Act of 1970."

1.2.2.2 The true line position, in locations where the transition from WETLAND to upland (dry land) is gradual, is placed at intermixed WETLAND plant species and upland (dry land) species junctions. Mixtures of *Spartina patens*, *Juncus gerardi*, *Iva frutescens*, *Baccharis halimifolia*, and *Panicum virgatum* border typical upland mixtures of Cedar and Hardwoods. In other cases, mixtures of *Spartina patens*, *Scirpus*, and *Typha* species abut upland mixtures of Red maple, Willow, Alder and Hardwoods.

Most of the WETLAND species named are tabulated in "The Wetlands Act of 1970"; none of the upland species named are listed in the Act.

1.2.2.3 The true line position in *existing* man-disturbed areas (including but not limited to roads, dikes, spoil piles, and occupied or non-occupied bare areas) is drawn to exclude most of these areas from the wetland area and thus *exclude* them from regulation. The Department knowingly has adopted this conservative position. Disturbed WETLANDS are not easily repaired or replaced; their value in the food chain is greatly reduced since most disturbed WETLANDS no longer support, as they once did, the kinds of vegetation listed in "The Wetlands Act of 1970". This does

not, however, impair their value as open space or storm and sea buffer areas.

1.2.2.4 The true line position is modified where natural bare ground (salt pans, etc.) or man-deposited spoil crosses an otherwise established portion of the WETLANDS boundary. Line modifications on filed photomaps are made seaward (at the WETLAND edge) of such bare ground or spoil areas.

1.3 Filed photomaps have a 1:2400 scale (1" = 200'). Each 3.0' by 3.5' photomap (stable plastic to minimize the effects of changes in temperature and humidity) encompasses 6000 feet in the east-west direction and 7000 feet in the north-south direction; the equivalent area is 964.2 acres (1.5065 square miles). Each 1000 foot square corresponds to 22.86 acres on the ground.

1.4 Filed photomaps show the New Jersey State Plane Coordinate, Universal Transverse Mercator, and the Latitude-Longitude grid systems. The New Jersey Grid is basic; computations were made to determine the exact relationship of the other systems to this grid.

1.5 The filed photomap indexing system is based on the New Jersey Grid. Grid values in the lower left (southwest) corner – north 280,000 and east 1,776,000 – are noted. Direction and the last three digits of each number are dropped to obtain the photomap index number (280-1776).

1.6 Each filed photomap has primary and secondary names. Secondary names are derived from Geological Survey (U.S.G.S.) 7.5 minute quadrangle sheets; primary names are selected from map-center water bodies, near-center permanent geographic features, or adjoining photomap water bodies or permanent geographic features. The latter kind of photomap titles contain appropriate north, south, east, or west designators.

2.0 THE ESTUARINE ZONE — GENERAL

2.1 New Jersey's estuarine zone, the area between the sea and the land, is unique; it is related to the sea and the land, but it is different from either. The "estuarine zone" is composed of bays, harbors, lagoons, channels, inlets, barrier beaches, sounds, estuaries, WETLANDS (tidal marsh), submerged lands (riparian), tidal portions of many fresh water streams and tributaries, and coastal and intertidal areas. Complex physical, chemical, and biological forces act and interact within this zone and create an exceptional but delicately balanced environment.

2.2 Estuaries, those semi-enclosed areas in which the land meets the sea and in which fresh water and salt water mix, are fertile and productive. In New Jersey, WETLANDS adjacent to estuaries yield up to five (5) to six (6) tons of dry organic matter per acre per year. In

comparison, the world average wheat production is only 0.5 tons per acre. The sustained high fertility of WETLANDS depends on many natural factors:

(1) The mixing of the waters of different salinities produces efficient vertical mixing that results in nutrient traps. Consequently, valuable nutrients are not swept out to sea but move within the WETLANDS and cycle rapidly between organisms, water, and bottom sediments. (Residence time for phosphorus varies from 0.05 to 200 hours in marsh fauna and flora.)

(2) Tidal flow is essential, because food, chemical nutrients, and oxygen are supplied continually. Waste products may be removed automatically, and clams, oysters, and other sessile organisms need not waste energy coping with purification processes.

(3) In some areas, land drainage from surrounding farmland is rich in minerals and organic material; additional nutrients are added to coastal WETLANDS through runoff from rivers and streams.

2.3 Plant life occurs in all WETLANDS as marsh grasses and algae. These plants grow and die. Decay transforms their tissues into minute fragments of food and vitamin-rich detritus. This detritus is suspended in the water and forms a nutritious "soup" that is carried into tidal creeks, bays, and offshore waters. Nearly all species of sport and commercial fish, shellfish, and other marine creatures in the estuarine zone are dependent on this "soup" for food.

2.4 Marsh detritus is exported by tidal action into sounds and bays and, eventually, to nearshore waters. This "outwelling" of nutrients and materials into the sea is similar in mechanism and magnitude to oceanic upwellings that support valuable fisheries in various parts of the world. Outwelling provides nutritional materials that may support marine life at long distances from our coast. Thus, there is a continuum from the WETLANDS to the open seas. Some fish that never enter or utilize WETLANDS are dependent on the estuarine zone for the continuous enrichment of their oceanic habitat.

2.5 Many aquatic animals feed on WETLAND plants, detritus washed from WETLANDS, and the algae that float in the water and coat marsh and channel surfaces. Other animals, including man, prey on animals that have eaten these plant foods; all, directly or indirectly, derive their energy from WETLAND (estuarine zone) flora.

Estuarine fauna include microscopic animal life, shellfish, crustaceans, and fin fish. Many of these are permanent residents of WETLANDS and tidal streams; others from the sea and spend part of their lives in estuarine zone waters. Oysters, clams, and crabs are among the best known residents of WETLANDS streams and estuarine zone bays.

Menhaden, fluke, and weakfish are among the commercially important fin fish that live in these waters

as young Diadromous fish, such as shad and eels, may remain in estuarine areas for considerable periods of time during their migration from the sea to fresh water streams. Finally, many kinds of commercial and sport fishes are directly dependent on estuarine zone waters for their number and well being.

2.6 WETLANDS vegetation responds sharply to salinity (soil and water), moisture, and elevation. Elevation plays a major role in determining WETLAND plant community composition, because elevation determines the extent to which each community will be inundated by high tides. New Jersey's WETLANDS vary in plant species composition, and that variation depends, primarily, on the amount of salt in tidal waters. Based on observed species composition variations, the WETLANDS of New Jersey may be classified, broadly, as follows:

(A) *SALINE WETLANDS*, found along the ocean shores of New Jersey, are characterized by very low species diversity. Many zones contain only a single species and occur over large areas.

The most abundant plant species occurring within the reach of daily tidal flow is *Spartina Alterniflora* (Smooth Cordgrass). It grows virtually without competition in this region and is an excellent indicator of the extent to which a given marsh is inundated by the sea. Above the level of daily tides, one may find isolated, low vigor, stands of Smooth Cordgrass, but the dominant species is *Spartina patens* (Salt Meadow Grass). *Distichlis spicata* (Marsh Spike Grass) may be a constituent of some high marsh communities, but *Spartina patens* is known to grow almost exclusively above areas where frequent (daily) tidal inundation occurs.

(B) *BRACKISH WATER WETLANDS* are quite similar to saline marshes; however, they do contain some plant species characteristic of fresh water marshes. These WETLANDS are common along estuaries and tributaries where incoming tidal waters are still saline. *Spartina alterniflora* is common in areas with tidal inundation, and *Spartina patens* is common in marshes above the high water line.

(B1) Some *BRACKISH WATER WETLANDS* contain lower amounts of salt in their soils when compared to *TYPE B WETLANDS*. In these marshes, plant species composition changes and becomes more diverse. Salinity is often too low to support *Spartina alterniflora* and *Spartina patens*. Species such as *Spartina cynosuroides* (Giant Cordgrass), *Scirpus species* (Bullrush) and *Typha species* (Cattail) are common. Two species are indicative of tide lines in these WETLANDS — Giant Cordgrass and Cattail. Giant Cordgrass grows in high marsh; Cattail is found in lower marsh. Cattail is a good low marsh indicator when combined with field observation.

(C) In FRESH WATER WETLANDS, species diversity increases. Cattail, Arrow Arum, Pickerel Weed, Yellow Waterlily, and *Zizania aquatica* (Wild Rice) are common. These species may grow below high water lines or wherever soil is water-saturated. *Phragmites* are common within these WETLANDS.

3.0 OCEAN AND SALEM COUNTY WETLANDS DESCRIBED

3.1 Orders promulgated by the Commissioner will apply to those Ocean County WETLANDS appearing on seventeen (17) maps filed in the office of the Ocean County recording officer. Filed maps enclose a 25.6 square mile area. The location of that area is shown on an attached photomap index. The area is bounded, approximately, by Little Egg Inlet and the Great Bay (south); Beach Haven Inlet-Marshelder Channel-Little Egg Harbor (east); Tuckerton and Route #9 (north); and the Mullica River and Ballangers Creek (west). Filed photomaps may be inspected in detail in the office of the Ocean County recording officer.

3.2 Ocean County WETLANDS are classified as saline (A-Type) Areas in the vicinity of Horse Foot Cove, Cape Horn, Hatfield Creek, and Big and Little Sheepshead Creeks contain virgin WETLANDS. These locations support large acreages of *Spartina alterniflora*, some *Spartina patens*, widgeon grass (a very important duck food), and scattered zones of *Iva* and *Juncus gerardi*. In some locations, berms are developing, and plant species are changing rapidly. Many natural small and large ponds have been observed; they could make this area a valuable wildlife WETLAND. Field crews found *Salicornia* and *Phragmites* in small patches; they were considered to be not significant and were not mapped.

At Tuckerton Cove, changing ecology, brought about by mosquito ditching, yields transitional areas of vegetation. Storm tides have spread out dredging deposits, and deposition of fill along the marsh has killed vegetation, raised the marsh, severely lowered the food producing value of portions of WETLAND and, generally, has brought about a net loss of WETLAND.

Remaining Ocean County WETLANDS can be described as being extensively ditched, drained, dredged, filled, and built-on. Sediment from fill or dredge piles has washed over and destroyed adjoining WETLANDS vegetation. Old mosquito ditches are being overgrown with vegetation which changes drainage patterns and alters and retards tidal ebb and flow. Deep ditches dug across small streams interrupt water flow and, in effect, drain the WETLAND.

Heavy mowing machinery creates depressions, saline waters fill depressions, and bare ground and reduced marsh productivity result.

Some high vigor *Spartina alterniflora* is present along streams and ditches, but *Spartina alterniflora* (low vigor) and large quantities of *Spartina patens*

interspersed with *Iva*, *Distichlis spicata*, *Juncus gerardi*, *Baccharis halimifolia*, and *Panicum virgatum* indicate an accelerated loss of productive WETLAND.

Traditional WETLAND ditching has lowered the local water table, caused extensive erosion, brought about general changes in water currents and distribution, and pressure at the head of small ditches has caused flooding around *Spartina patens* islands normally above high water. Weedy plant growth is encouraged (*Baccharis* and *Iva*), crustacean numbers are reduced, and, as *Spartina patens* encroaches on a once fertile marsh, mosquito populations increase (*Spartina patens* marshes are a most suitable breeding habitat for the mosquito).

3.3 Orders promulgated by the Commissioner will apply to those Salem County WETLANDS shown on four (4) photomaps filed in the office of the Salem County recording officer. Filed maps enclose a six (6.0) square mile slightly rectangular area. The location of that area is shown, generally, on an attached photomap index. The outlined area is bounded on the southwest by Pleasant Point and on the southeast by the Salem River and Cobb Island. The northwestern corner of the rectangle lies to the east of Pennsville, and the northeastern corner is fixed east of Pine Island Meadow and west and north of Marshalltown. Filed photomaps may be inspected in the office of the Salem County recording officer.

3.4 The area bounded by the four (4) filed Salem County photomaps is a fresh-brackish (C, B, and B1 types) WETLAND. *Phragmites communis* (common reed) is prevalent; it is often found on diked or man-disturbed lands.

3.4.1 Duck and geese impoundments exist in what was once WETLAND. Impounded lands have been stripped of significant vegetation and are no longer tidally influenced.

3.4.2 A diked area exists in the Beaver Dam vicinity. It has been filled with Delaware River dredge spoil. *Phragmites communis* is present. The area is no longer tidal nor is it a WETLAND. The nutrient productivity which this portion of WETLAND could have contributed to the Delaware estuary, had it remained undisturbed, has been lost.

3.4.3 Some diked areas have been built of muck and dredge spoil and are severely eroded. Erosion has contributed substantial sediment to Salem Creek which may be responsible for observed heavy shoaling. Sediment, in addition to causing shoaling, reduces a stream's ability to assimilate oxygen-demanding wastes, blankets fish nests and food organisms, and masks out light needed by aquatic plants to consummate efficient photosynthetic processes. Other living organisms depend on plants for their reproduction, growth, and well-being. Man, ultimately, is subservient to these flora and fauna.

3.4.4 Many Salem River tidal streams have been diked to block tidal flow. Blocking creates new dry lands for truck crops and provides water for irrigation. An estimated 3600 acres of once tidal WETLAND has been affected by these reclamation procedures.

As noted above, agricultural impoundments are beneficial to a few. Agricultural impoundments impact, also, on the many: WETLAND productivity decreases and is, in part, destroyed; decreased productivity is brought about by unfavorable or unexpected changes in local WETLAND ecosystems as they respond to man-made environmental modifications. Decreased WETLAND productivity may be mirrored in reduced Delaware estuary fertility; reduced species diversity decreases sport and commercial fish, clam, oyster, and mussel yields.

3.4.5 Muskrat impoundments have been noted (3,880 acres estimated in Salem County). They are of substantial economic benefit to landowners and trappers, but such impoundments have not only destroyed and decreased marsh productivity but also have contributed to lessened fertility in the Delaware Bay estuary. Many muskrat impoundments now support stands of common reed which were covered once with short low-water cordgrasses; also, experience has shown that heavy to moderate mosquito breeding habitats occur in and near diked muskrat impoundments.

3.4.6 In addition to those plant species inventoried on the four (4) filed photomaps, other plant species grow in these WETLANDS: *Juncus effuses*, *Rumex verticillatus*, *Iris versicolor*, *Eleocharis*, *Scripus cyperinus*, and *Scripus robustus* have been observed (*Scripus* and *Typha* species help maintain muskrat populations). All of the above occur in small stands and were not included on the photomap inventory. *Scripus robustus* and *Eleocharis* are named in "The Wetlands Act of 1970".

4.0 WETLANDS — A PHYSICAL BARRIER

4.1 The sea can be either friendly or hostile. It may, on any one day, be calm and beautiful or terrifying and destructive. High waters, winds, and waves can damage or destroy property in WETLAND or upland and can, with time, cause substantial mainland erosion.

4.2 The force (energy) of the sea is often underestimated; a four-foot high ten-second wave contains 33 foot-tons of energy, and an eight-foot wave of the same period generates 131 foot-tons of energy. Waves transmit a portion of their energy to any fixed barrier (homes or other structures) placed so as to arrest wave motion. If barriers are weak, structures will be either severely damaged or completely destroyed.

4.3 WETLANDS, physically, act as a buffer between the sea and land; they help protect man. They absorb a portion of wind and storm wave energies, and they

provide large storage areas for flood and storm waters. These functions, in turn, reduce mainland erosion rates and lessen social and economic hardships caused by upland flooding and high winds.

4.4 WETLANDS are dynamic and everchanging. Storms and winds may rip their turf and, for a time, alter natural drainage and contour; but the marsh is resilient — it survives and adjusts to new combinations of physical forces.

4.5 Filling WETLANDS reduces their capacity to store storm or flood waters. Non-storable storm waters infringe on neighboring marshes or uplands and have the potential to cause extensive damage which otherwise would not have occurred.

4.6 Development in WETLANDS are particularly vulnerable to wave and water damage because of their proximity to the sea. Ocean County storm record observations taken in the general vicinity of Mystic Islands, west of Tuckerton, show that Mystic Islands is subject to periodic flooding (Mystic Islands is between 2.1 and 2.5 feet above mean sea level *):

DATE	YEAR	WATER HEIGHTS ABOVE MEAN SEA LEVEL (FT.)
1/26	1932	8.1
9/16	1935	7.3
11/17	1935	8.5
9/30	1943	7.2
10/20	1943	7.7
9/14	1944	11.6 (hurricane)
11/25	1952	9.95
11/7	1953	8.1
1/23	1966	7.0 (At Radio Road Bridge)

*Excerpted from a topographic survey submitted by the Mystic Island surveyor.

4.7 In March, 1962 "Tuckerton Beach and Mystic Islands, located to the west of Beach Haven, were flooded by high tides in Great Bay, and sustained major damages. These communities are relatively new developments, and are comprised almost exclusively of vacation homes. A total of 617 homes in Tuckerton Beach and 154 in Mystic Islands suffered flood damage."

4.8 The material in quotes was copied verbatim from page 4-10 Post Flood Report (Corps of Engineers) — March 1962 Storm. These data and the Ocean County information prove that WETLANDS flooding and major damage to WETLAND-located structures actually occur.

4.9 Those who live in structures built on WETLANDS are gambling; major floods will continue to happen, and subsequent property damage costs will be proportional to the severity of the flooding. (No one can guarantee a tranquil and non-hazardous WETLAND environment).

4.10 Proposed WETLAND "ORDERS" are, in part, designed to protect the public safety and preserve and enhance public welfare. With WETLANDS flooding data a matter of the public record, it would be indefensible for the Department of Environmental Protection to make public less stringent ORDERS.

5.0 WETLANDS AND WATERFOWL

5.1 Waterfowl migrating along the Atlantic Flyway depend on WETLANDS for their food. Ducks and geese feed in the WETLANDS, and waterfowl productivity would be seriously depleted if WETLANDS and their vegetative cover were destroyed or seriously encroached upon by man. During heavy wintertime freezes, certain sections of the WETLANDS are inaccessible to fowl, and they must forage for food wherever it can be found. Encroachment lessens their chance for survival.

5.2 The WETLANDS are ecosystems. Each plant species or species association is not individualistic or self-sustaining; species interact and are interdependent. WETLANDS are in delicate balance. Man can easily destroy that balance and trigger changes which infringe on and decimate fish and waterfowl populations. Man moves from the city to the sea to enjoy the good things in life; ultimately, he destroys the very things he has spent good money to enjoy.

5.3 Proposed WETLAND "ORDERS" provide for setbacks in areas along WETLAND water-land interfaces. The promulgation of this order would help maintain marsh edge integrity, prevent erosion, allow natural circulation patterns to transport nutrients efficiently between the sea and land, and provide fish and fowl with foods needed to support and increase their numbers.

6.0 WETLANDS — SHORE AND SONG BIRDS

6.1 Productive WETLANDS not only maintain waterfowl but also support large numbers of birds and bird species. Plants and animals provide birds with food, and many of those foods come from WETLANDS. (Productive marshes can yield, in addition to plants, millions of snails, amphipods, insects, and worms per acre.)

6.2 Grackles and Swallows feed in and near WETLANDS. The Tree Swallow, in late August, eats marsh insects and by feeding performs a valuable function to man. Marsh wren and certain sparrow species breed on and live in WETLANDS.

6.3 Shore birds such as the Laughing Gull, Herring Gull, Terns, Willets, Osyter Catchers, and Clapper Rails breed in the WETLANDS and depend on this resource for food. (Clapper Rails arrive in New Jersey WETLANDS in late April; they winter in the marshes of South Carolina and Northern Florida.)

6.4 The Skimmer nests on sand heaps and beach islands in an adjacent to WETLANDS. This bird feeds

in creeks, ponds, bays, and ocean inlets; it depends on WETLANDS productivity.

6.5 Wading birds make use of the marsh but nest in adjacent uplands. These species include the Herons, Egrets, Bittern, and Ibis.

7.0 WETLANDS AND PESTICIDES

7.1 Pesticides are used in WETLANDS to control mosquito populations. Pesticides have been misused: Department studies show that persistent pesticides and their metabolites — DDT, DDE, AND DDD — are present in WETLANDS vegetation. Through biological magnification, these "hard" pesticides have become concentrated in fish, fur-bearing animals, waterfowl, crabs, and birds.

7.2 Persistent pesticides use can result in long-term detrimental environmental effects. Evidence exists to indicate that certain insecticides have caused immediate and long-term fish and wildlife mortality.

7.3 The proposed "ORDERS" prohibit the use of hard pesticides in WETLANDS and *all* pesticides where there are significant stands of cordgrass, *Scirpus* (threesquare), wildrice, and cattail. These areas are flooded twice daily by the tides. Flooding prevents mosquito production and makes such regions of high value to fish, shellfish, and wildlife. (Certain cordgrass areas are of high estuarine system value; they support substantial snail, fiddler crab, and ribbed mussel populations.)

7.4 The Department takes the position that chemicals should be applied in WETLANDS only when *absolutely* necessary. If non-persistent pesticides are applied to the marsh, the following guidelines may be used to minimize unwanted and unwarranted environmental impacts and maximize control effectiveness, at lower public cost:

- (1) Determine the *proper* pesticide to be used.
- (2) Determine the correct dosage rate and adhere to it.
- (3) Locate all heavy breeding centers — (salt-meadow grass, disturbed areas covered by common reed, and temporary and seasonal pools).
- (4) Apply the proper pesticide at the right dosage *only* to the heavy breeding areas at the right time (adulticide use, for example, should coincide with the period during which large broods of mosquitoes are emerging from the WETLANDS; spraying at other times is ineffective and costly.)

8.0 WETLANDS — THEIR PRODUCTIVITY AND BENEFIT TO MAN

8.1 Department of Interior statistics for 1967 indicate that New Jersey's commercial coastal fisheries landed 117 million pounds having a dockside value of \$10

million. About 3,000 fishermen were employed either full or part time on boats and on the shore. Approximately 2,000 other persons were employed full-time in seafood wholesaling and in processing plants. The value of processed products has been estimated to be near \$30 million.

About two-thirds of the commercial fish catch on the Atlantic Coast is believed to be WETLANDS (estuarine)-dependent (McHugh 1966). Department of Environmental Protection studies in the Great Bay - Mullica River estuary tend to confirm that many finfish species, at some stage in their life cycle, utilize estuarine waters. At Cape Horn, Great Bay, thirty-one species of fish were taken over a year's time; the bay anchovy was most abundant, silversides were second, and other seined species included the silver perch, northern pipefish, northern puffer, winter flounder, red hake, and black bass. The fisheries yield from the U.S. Atlantic Continental Shelf has been estimated to be equivalent to about 535 pounds per acre of estuary (Stroud). Loss of estuarine habitat could cause an annual 535 pound loss of fisheries products to those dependent on high sustained yields for their economic well-being.

8.2 Reliable sports fishing statistics for the New Jersey Coast are not available. Recent estimates, however, indicate that nearly one million sportsmen fish in coastal waters each year and catch at least 10 million pounds of fish. Creek census results in the Great Bay-Mullica River estuary show that nearly one million fish are taken each year by sports fishermen. The contribution to the State's economy by these sportsmen is substantial even though quantitative data are unavailable. Boat and motor sales, charters, rentals, licenses, fishing equipment, bait, travel, motel, marina costs, and food expenditures for these services and supplies are all related to the attractiveness of the tidal WETLANDS and bays.

8.3 In addition to commercial and sports fishing, estuaries (WETLANDS) are used for other multi-purpose activities. Studies conducted by the Department of Environmental Protection indicate that about 129,000 man-days of use was made of the Great Bay-Mullica River estuarine zone in one year. Those uses included fishing, boating, shell fishing, bathing, hunting, water skiing, and the harder-to-document kinds of activities such as sightseeing and scientific research. All of these uses are important to man - they contribute to the enhancement of the quality of life as well as to his economic and social well-being.

9.0 PROPOSED ORDERS - RATIONALE AND SUMMARY

9.1 The concept of balance is central to the proposed orders. The orders recognize that destruction eliminates choice. Therefore, they are designed so that all possible effects of any project on the wetlands' environment are taken into account before the project is allowed to

proceed. The balance sought to be injected is not so much a balance between developed and undeveloped pieces of wetland, for nowhere do the criteria exist to strike an accurate balance in this way. The balance these orders seek to attain is a mental or internalized balance in which the adverse effects of development are weighed before the fact, rather than after.

9.2 The orders are divided into 9 sections. Section 1 describes the areas affected by the orders in the Counties of Ocean and Salem. Section 2 defines important terms which occur in the orders. Sections 3 and 4 form the core of the proposed orders and establish a regulatory system for proposed activities in the wetlands.

9.2.1 Two categories of regulated activities are established by Sections 3 and 4. Section 3 creates Type A regulated activities. These are small projects for which an abbreviated form of application and review procedure has been established. To qualify as a Type A activity the project must be either new construction the total cost of which is less than \$5000 or the repair, renovation, or maintenance of existing structures of facilities in a manner which will not increase the amount of wetlands covered at a cost of less than \$5000. An application for a permit for a Type A activity does not require the submission of an environmental impact statement. In order to be approved, the applicant must demonstrate that he has notified the local government of the area in which the wetlands are located of his proposed activity, and must also demonstrate that the project:

9.2.1.1 Requires water access or is water oriented as a central purpose of the basic function of the activity.

9.2.1.2 Has no prudent or feasible alternative on a non-wetland site.

9.2.1.3 Will result in minimum feasible alteration or impairment of natural tidal circulation.

9.2.1.4 Will result in minimum feasible alteration or impairment of the natural contour or the natural vegetation of the wetlands.

9.2.2 If the Commissioner finds that the project meets the criteria in 9.2.1 he may issue a permit for the activity. No hearing is required, although the Commissioner may convene one if he deems it necessary. If a permit is issued, the recipient must file it in the office of the County recording officer, and post a copy on the site where the work is being done. The application fee for the Type A permit is \$25. The permit is valid for one year from the date of issue, and may be extended by the Commissioner at his discretion after an application in writing requesting such extension.

9.2.3 Type A activities will include most of the work done by individual property owners on small pieces of property, including such work as the excavation of small

mooring slips, repair of sea walls, maintenance of existing roads, construction of piers, docks, and boat shelters, and the establishment of duckblinds and wildlife shelters.

9.2.4 In contrast with these limited undertakings on small pieces of property, Type B activities include larger projects. In keeping with the greater environmental impact of larger activities, the permit application and review procedure is more rigorous than those required by Category A.

9.2.4.1 The application procedure for the Type B permit is much the same as for Type A, except that a detailed environmental impact statement is required for Type B as is a hearing, held by the Commissioner or an officer of the Department appointed by him, for each application. The application fee is \$25 per acre affected. The environmental impact statement will become a document available to the public, and the hearing will be opened to all interested parties.

9.2.4.2 The environmental impact statement is required so that the Department and interested citizens will be able to assess the effect of any proposed project on the environment before the project is begun, rather than be confronted with environmental damage if an activity is carried on prior to assessing its probable environmental effects. The impact statement will describe and analyze alternatives to the proposed action which would reduce environmental damage, as well as consider the effects of the project on the activity site and adjacent and non-contiguous wetlands.

9.2.4.3 In order to be approved, the applicant must demonstrate that his project meets not only the same criteria set for Type A permits but also additional criteria as set forth in the accompanying WETLANDS ORDERS.

9.2.4.4 If an application is approved after a hearing, the applicant must record the permit in the office of the county recording officer and post a copy of the permit prominently on the site. The permit will be valid for one year from the date of issue, but it may be extended by the Commissioner upon written application to him.

9.3 Section 5 of the proposed orders establishes a set of prohibited activities. These activities are extremely harmful to wetlands, and their impact usually cannot be lessened by remedial action. The prohibited activities are dumping refuse or garbage in wetlands, discharging sewage or industrial wastes in wetlands, applying pesticides to areas containing significant stands of biologically important grasses (except where required by a public health emergency), applying persistent pesticides to any area of the marsh, or driving vehicles over wetlands.

9.4 Sections 6 and 7 of the proposed orders govern the relationship between the orders and other statutes and to local ordinances. The orders do not supercede local ordinances which impose standards more restrictive than those in the orders.

9.5 The final section of the order establishes exceptions to the activities regulated in the orders. The orders will not apply in the event of a declared public health emergency, nor do they govern the continuance of salt hay farming or other agricultural activities on lands which were being used for those purposes as of the effective date of the act. Finally, the orders do not apply to normal, non-commercial owner enjoyment activities of privately owned wetlands.

10.0 CONCLUSIONS

10.1 Wetlands are ecosystems and are integral to larger estuarine zone ecosystems. Wetlands support plant species and species communities which are in dynamic but delicate balance. The biophysical environment determines that balance. This complex environment is subject to and is shaped by those natural, physical, chemical, and geological principles governing the tides, ocean currents, coastline slope, climate, river flows, and sedimentation patterns. The object of the proposed order is to control man's impact on this complex environment and on the wetlands themselves so that these vital lands can continue to serve man and nature.

10.2 Principal sections of this "BASIS" have shown that WETLANDS have multiple beneficial uses: They act as a buffer against flood, wind, and wave damage; they serve as a waterfowl, bird, and wildlife habitat; and, they provide essential nutrients which make the estuary a rich and very productive area. (Estuaries provide the food serving as the base of the food chain for the larvae stages of many marine forms during this critical part of their life cycles.)

10.3 A great deal of other significant information about WETLANDS is known. The processes described below may be critical to the long-term well-being and safety of man:

(1) WETLANDS play a most significant geological role as sediment accretors (Niering). Geologists have indicated that sediments which do not form marsh complexes go instead into channels, harbors, or tidal creeks and accentuate silting problems (Sanders and Ellis). Marsh build-up processes occur over 4000 year spans (Redfield); man destroys WETLANDS in one day.

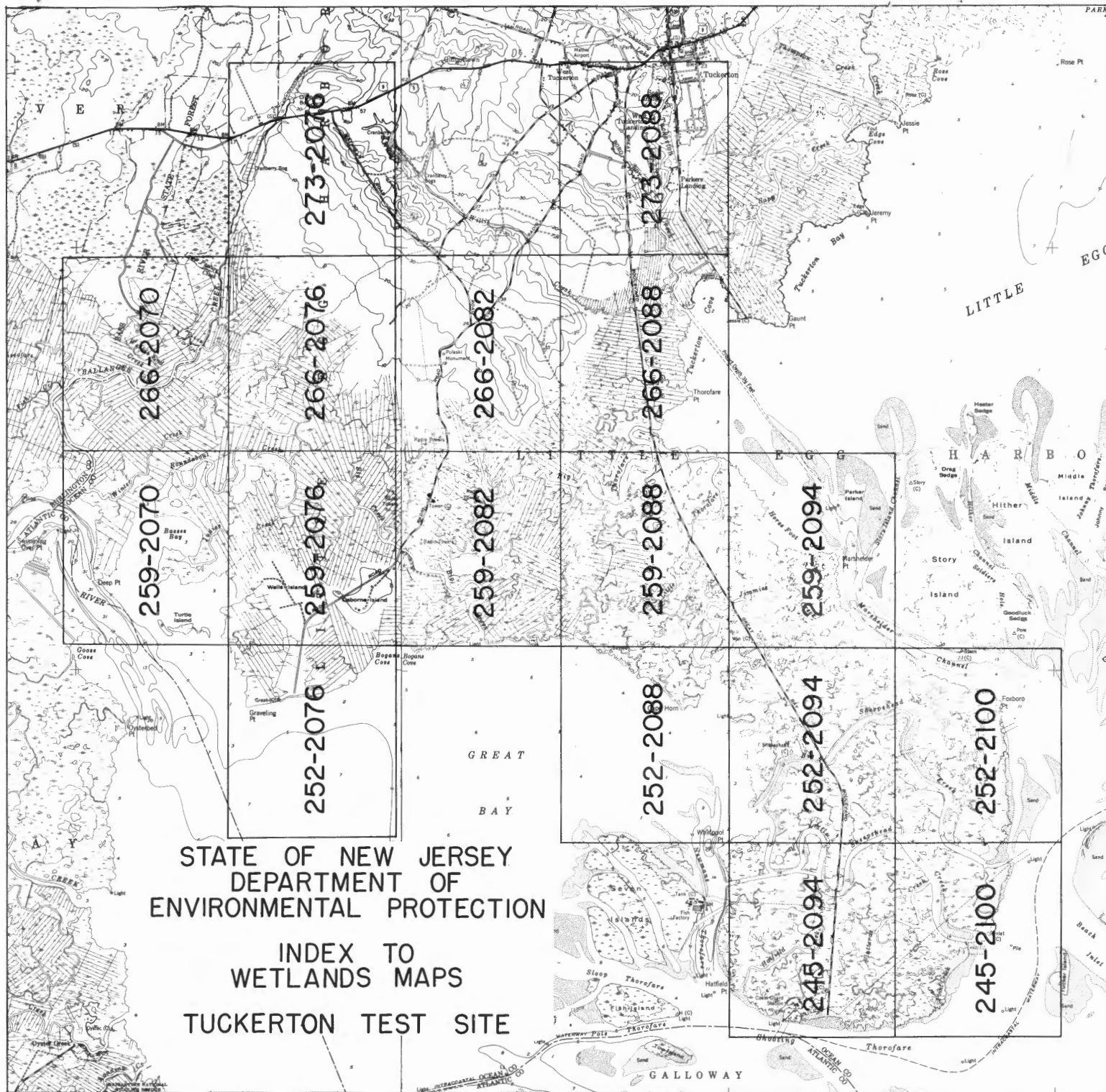
(2) WETLANDS play an important role in the cycling of nitrogen in natural ecosystems (Delwiche). Nitrogen oxides may accumulate in our waters, and nitrate concentrations above 45 milligrams per liter renders those waters unfit for human consumption (U.S.P.H.S.). Such waters, when drunk, can cause methemoglobinemia which usually results in brain

damage. WETLANDS are an essential ecosystem; they denitrify toxic nitrogen-oxygen compounds and can act as efficient guardians of the public health (Nickerson).

(3) WETLANDS improve water quality by reoxygenating the water and absorbing nitrates and phosphates (McCormick and Patrick); also, marsh vegetation reduces organic load. Tincum marsh vegetation studies indicated a daily reduction of approximately 7.7 tons of BOD, 4.9 tons of P - PO₄, and 4.3 tons N - NH₃ (McCormick). WETLANDS help prevent serious public health problems.

10.4 The WETLANDS ecosystem is delicately balanced. Seemingly minor physical alterations could

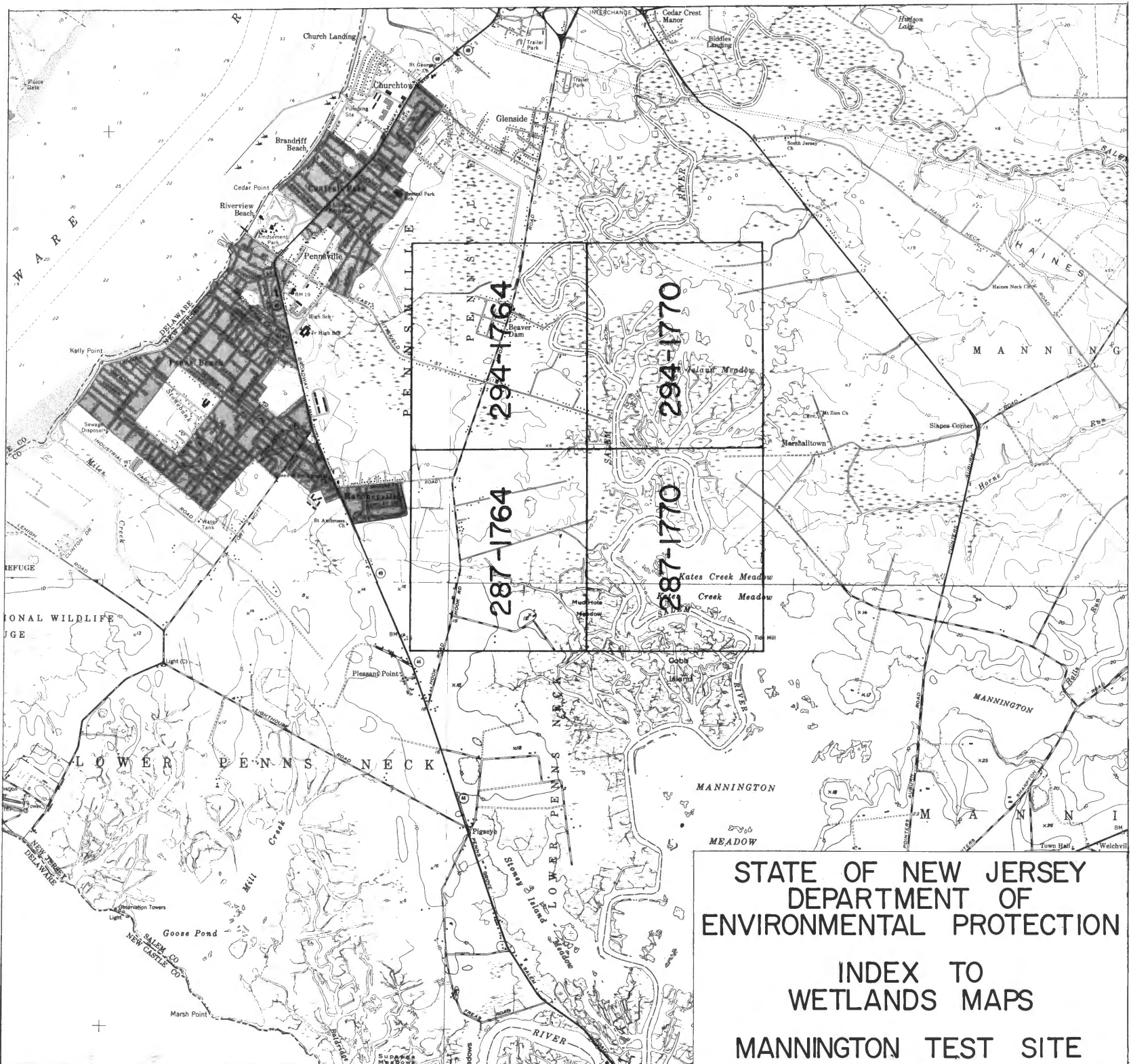
stress this delicately balanced system and cause severe damage to the kinds and abundance of plant and animal species inhabiting the WETLANDS. In addition, significant alteration could affect ultimately the health, welfare, and safety of man. All of the facts are not yet known. The Department's proposed "WETLANDS ORDERS" have been, therefore, conservatively drawn. The ORDERS are based on known scientific fact and sound ecological practice; they leave an adequate margin of safety for protection from miscalculation and extreme natural variation, they take into account known beneficial and detrimental effects, and they allow for multiple WETLANDS use.



STATE OF NEW JERSEY
DEPARTMENT OF
ENVIRONMENTAL PROTECTION

INDEX TO
WETLANDS MAPS

TUCKERTON TEST SITE





State of New Jersey
DEPARTMENT OF ENVIRONMENTAL
PROTECTION
TRENTON

Division of Marine Services

NOTICE

THIS ORDER FORM AND THE INSTRUCTIONS BELOW APPLY ONLY TO REQUESTS FOR PAPER COPIES OF THE MAPS LISTED BELOW. USE ORDER SHEET #2 IF YOU DESIRE TO OBTAIN NON-REPRODUCIBLE PLASTIC (CRONOPAQUE) COPIES OF THE WETLANDS SHEET(S).

ORDER SHEET #1
INSTRUCTIONS

PLEASE: TO AVOID DELAYS IN PROCESSING YOUR ORDER,

1. Print neatly or type all information required on the reverse side of this form.
2. Order each map by map number and name, and specify quantity desired.
3. Indicate which materials you wish to receive by placing an "X" in the appropriate column (i.e. Paper Wetlands Map, Property Line Map and Ownership List).
4. Total the costs of all material at the bottom of the form, and enclose a check or money order, in the full amount, with your order.
5. Make check or money order payable to:

TREASURER, STATE OF NEW JERSEY: EP - GT

6. Mail your request to:

Bureau of Marine Lands Management
P.O. Box 1889
Trenton, N.J. 08625

7. Costs for the various items are listed below:

WETLANDS MAPS	Paper copies	each	\$10.00
PROPERTY LINE MAPS	Paper copies	each	\$ 7.50
OWNERSHIP LISTS FOR EACH PROPERTY LINE MAP		each	\$ 2.50

ORDER FORM FOR
 WETLANDS MAPS AND ASSOCIATED MATERIAL
 INSTRUCTIONS ON REVERSE SIDE OF THIS SHEET

DATE _____, 19

 (PURCHASER)

 (STREET ADDRESS)

ORDER SHEET #1

 (TOWN) (STATE & ZIP CODE)

QUANTITY	MAP NUMBER	MAP NAME	WETLANDS MAP COST	PROPERTY LINE MAP COST	OWNERSHIP LIST COST	SUBTOTAL

TOTAL (AMOUNT DUE) \$ _____



State of New Jersey
DEPARTMENT OF ENVIRONMENTAL
PROTECTION
TRENTON

Division of Marine Services

NOTICE

THIS ORDER FORM AND THE INSTRUCTIONS BELOW APPLY ONLY TO REQUESTS FOR PLASTIC COPIES* OF THE MAPS LISTED BELOW. USE ORDER SHEET #1 IF YOU DESIRE TO OBTAIN PAPER COPIES OF THE WETLANDS SHEETS, PROPERTY LINE MAPS AND OWNERSHIP LISTS.

ORDER SHEET #2
INSTRUCTIONS

PLEASE: TO AVOID DELAYS IN PROCESSING YOUR ORDER,

1. Print neatly or type all information required on the reverse side of this form.
2. Order each map by map number and name, and specify quantity desired.
3. Total the costs of all material at the bottom of the form, and enclose a check or money order, in the full amount, with your order.
4. Make check or money order payable to:

TREASURER, STATE OF NEW JERSEY: EP-GT

5. Mail your request to:

Bureau of Marine Lands Management
P.O. Box 1889
Trenton, N.J. 08625

6. Allow at least six weeks for processing and delivery of this material.
7. The cost is listed below.

WETLANDS MAPS	Plastic Copies*	each	\$50.00
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* "Plastic Copies" will be identical to those exhibited in the County Courthouse(s) for your area(s) of interest.

ORDER FORM FOR
PLASTIC COPIES OF WETLANDS MAPS
INSTRUCTIONS ON REVERSE SIDE OF THIS SHEET

DATE _____, 19

(PURCHASER)

(STREET ADDRESS)

ORDER SHEET #2

(TOWN) (STATE & ZIP CODE)

QUANTITY	MAP NUMBER	MAP NAME	SUBTOTAL

TOTAL (AMOUNT DUE) \$ _____

HATFIELD CREEK/TUCKERTON MAP # 245-2094 SUPPLEMENT

OCEAN COUNTY

18 NOVEMBER 1971

As of 18 November 1971, Map # 245-2094 has been updated to account for the following changes:

Delete: J. Howard Smith, Inc. - listed on Block 327, Lot 33

Insert: State of New Jersey

PROPERTY OWNERS OF RECORDSTATE OF NEW JERSEYDEPARTMENT OF ENVIRONMENTAL PROTECTIONLITTLE SHEEPSHEAD CREEK/TUCKERTON MAP # 245-2100OCEAN COUNTY18 JUNE 1971

<u>OWNER</u>	<u>TAX MAP</u>	<u>BLOCK</u>	<u>LOT</u>
J. Howard Smith Inc. Shore Rd. Port Monmouth, N. J.	Little Egg Harbor Twp. Sheet No. 33-Sept. 1959, Revised 1968	327	33

GRAVELING POINT/NEW GRETNA MAP # 252-2076 SUPPLEMENT

OCEAN COUNTY

18 NOVEMBER 1971

As of 18 November 1971, Map # 252-2076 has been updated to account for the following changes:

Delete: Marina & Developed Area - listed on Block 325, Lot 40

Insert: Lesley Schneider
23470 Church
Oak Park, Michigan 48237

PROPERTY OWNERS OF RECORDSTATE OF NEW JERSEYDEPARTMENT OF ENVIRONMENTAL PROTECTIONGRAVELING POINT/NEW GRETNA MAP # 252-2076OCEAN COUNTY18 JUNE 1971

<u>OWNER</u>	<u>TAX MAP</u>	<u>BLOCK</u>	<u>LOT</u>
Mystic Development Corp. Radio Rd. Tuckerton, N. J.	Little Egg Harbor Twp. Sheet No. 28-Sept. 1959, Revised 1968	325	22
Marina & Developed Area	Little Egg Harbor Twp. Sheet No. 28-Sept. 1959, Revised 1968	325	40
Mystic Development Corp. Radio Rd. Tuckerton, N. J.	Little Egg Harbor Twp. Sheet No. 28-Sept. 1959, Revised 1968	326	28

CAPE HORN/TUCKERTON MAP # 252-2088 SUPPLEMENT

OCEAN COUNTY

18 NOVEMBER 1971

As of 18 November 1971, Map # 252-2088 has been updated to account for the following changes:

Block 326, Lot 63 - change address of owner to: Howard & Elenor Anderson
206 Lafayette Place
Brigantine, N. J. 08203

BIG SHEEPSHEAD CREEK WEST/TUCKERTON MAP # 252-2094 SUPPLEMENT

OCEAN COUNTY

18 NOVEMBER 1971

As of 18 November 1971, Map # 252-2094 has been updated to account for the following changes:

PAGE 1 of 2

Delete: Rands Boats, Inc. - listed on Block 326, Lot 58

Insert: Arthur B. Merk
56-11 Lakewood Court
Tuckerton, N. J.

PAGE 2 of 2

Delete: Edward & Jacqueline Stengel - listed on Block 326, Lot 62

Insert: Pasquale Romeo & F.L. & A. Luppino
106 Spring Valley Road
Hackensack, N. J. 07601

Block 326, Lot 63 - change address of owner to: Howard & Elenor Anderson
206 Lafayette Place
Brigantine, N. J.

Delete: J. Howard Smith, Inc. - listed on Block 327, Lot 34

Insert: Dr. Edward White
746 Queen Anne Road
Teaneck, New Jersey

PROPERTY OWNERS OF RECORDSTATE OF NEW JERSEYDEPARTMENT OF ENVIRONMENTAL PROTECTIONBIG SHEEPSHEAD CREEK WEST/TUCKERTON MAP # 252-2094OCEAN COUNTY18 JUNE 1971

<u>OWNER</u>	<u>TAX MAP</u>	<u>BLOCK</u>	<u>LOT</u>
Cape Horn Marina c/o W. R. Scott, Sr. Box 206 Tuckerton, N. J.	Little Egg Harbor Twp. Sheet No. 30-Sept. 1959, Revised 1968	326	37
Unknown (c/o Carlton Corliss Bay Ave. Tuckerton, N. J.)	Little Egg Harbor Twp. Sheet No. 30-Sept. 1959, Revised 1968	326	38
Dr. Edward & Sylvia White 746 Queen Anne Rd. Teaneck, N. J.	Little Egg Harbor Twp. Sheet No. 30-Sept. 1959, Revised 1968	326	39
J. Lawrence Entwistle S. Green St. Tuckerton, N. J.	Little Egg Harbor Twp. Sheet No. 30-Sept. 1959, Revised 1968	326	40
Dr. Edward & Sylvia White 746 Queen Anne Rd. Teaneck, N. J.	Little Egg Harbor Twp. Sheet No. 30-Sept. 1959, Revised 1968	326	41
J. Howard Smith Inc. Shore Rd. Port Monmouth, N. J.	Little Egg Harbor Twp. Sheet No. 30-Sept. 1959, Revised 1968	326	42
Rands Boats Inc. c/o John Mason N. Holly Dr. Tuckerton, N. J.	Little Egg Harbor Twp. Sheet No. 30-Sept. 1959, Revised 1968	326	58

PROPERTY OWNERS OF RECORDSTATE OF NEW JERSEYDEPARTMENT OF ENVIRONMENTAL PROTECTIONBIG SHEEPSHEAD CREEK WEST/TUCKERTON MAP # 252-2094OCEAN COUNTY18 JUNE 1971

<u>OWNER</u>	<u>TAX MAP</u>	<u>BLOCK</u>	<u>LOT</u>
Edward & Jacqueline Stengel 130 Wood St. Tuckerton, N. J.	Little Egg Harbor Twp. Sheet No. 30-Sept. 1959, Revised 1968	326	62
Howard & Elenor Anderson 34 Gibbsboro Rd. Clementon, N. J.	Little Egg Harbor Twp. Sheet No. 30-Sept. 1959, Revised 1968	326	63
J. Howard Smith Inc. Shore Rd. Port Monmouth, N. J.	Little Egg Harbor Twp. Sheet No. 30-Sept. 1959, Revised 1968	327	33
J. Howard Smith Inc. Shore Rd. Port Monmouth, N. J.	Little Egg Harbor Twp. Sheet No. 30-Sept. 1959, Revised 1968	327	34
J. Lawrence Entwistle S. Green St. Tuckerton, N. J.	Little Egg Harbor Twp. Sheet No. 30-Sept. 1959, Revised 1968	327	35

PROPERTY OWNERS OF RECORDSTATE OF NEW JERSEYDEPARTMENT OF ENVIRONMENTAL PROTECTIONBIG SHEEPSHEAD CREEK EAST/TUCKERTON MAP # 252-2100OCEAN COUNTY18 JUNE 1971

<u>OWNER</u>	<u>TAX MAP</u>	<u>BLOCK</u>	<u>LOT</u>
Poultremens Service Corp 28-40 S. Main St. Toms River, N. J.	Little Egg Harbor Twp. Sheet No. 30-Sept. 1959, Revised 1968	327	16
Stewart R. Maines Kings Highway Moorestown, N. J.	Little Egg Harbor Twp. Sheet No. 30-Sept. 1959, Revised 1968	327	32
J. Howard Smith Inc. Shore Rd. Port Monmouth, N. J.	Little Egg Harbor Twp. Sheet No. 30-Sept. 1959, Revised 1968	327	33
Myrtle Development Corp. Little Egg Harbor Twp. Sheet No. 30-Sept. 1959, Revised 1968		327	34
Myrtle Development Corp. Little Egg Harbor Twp. Sheet No. 30-Sept. 1959, Revised 1968		327	35
Myrtle Development Corp. Little Egg Harbor Twp. Sheet No. 30-Sept. 1959, Revised 1968		327	36
Not listed Little Egg Harbor Twp. Sheet No. 30-Sept. 1959, Revised 1970		327	37

PROPERTY OWNERS OF RECORDSTATE OF NEW JERSEYDEPARTMENT OF ENVIRONMENTAL PROTECTIONBASSES BAY/NEW GRETNA MAP # 259-2070OCEAN COUNTY18 JUNE 1971

<u>OWNER</u>	<u>TAX MAP</u>	<u>BLOCK</u>	<u>LOT</u>
Mystic Development Corp. Radio Rd. Tuckerton, N. J.	Little Egg Harbor Twp. Sheet No. 24-Sept. 1959, Revised 1970. Sheet No. 28-Sept. 1959, Revised 1968.	325	22
Mystic Development Corp. Radio Rd. Tuckerton, N. J.	Little Egg Harbor Twp. Sheet No. 24-Sept. 1959, Revised 1970.	325	23
Dorothy McAnney N. Maple Ave. New Gretna, N. J.	Little Egg Harbor Twp. Sheet No. 24-Sept. 1959, Revised 1970	325	24
Mystic Development Corp. Radio Rd. Tuckerton, N. J.	Little Egg Harbor Twp. Sheet No. 28-Sept. 1959, Revised 1968	325	25
Mystic Development Corp. Radio Rd. Tuckerton, N. J.	Little Egg Harbor Twp. Sheet No. 28-Sept. 1959, Revised 1968.	325	26
Mystic Development Corp. Radio Rd. Tuckerton, N. J.	Little Egg Harbor Twp. Sheet No. 28-Sept. 1959, Revised 1968	325	27
Not listed	Little Egg Harbor Twp. Sheet No. 24-Sept. 1959, Revised 1970	325	28

PROPERTY OWNERS OF RECORDSTATE OF NEW JERSEYDEPARTMENT OF ENVIRONMENTAL PROTECTIONBASSES BAY/NEW GRETNA MAP # 259-2070ATLANTIC COUNTY18 JUNE 1971

<u>OWNER</u>	<u>TAX MAP</u>	<u>BLOCK</u>	<u>LOT</u>
U. S. Government	Galloway Township Sheet No. 21-Aug. 1931	1137	14
U. S. Government	Galloway Township Sheet No. 21-Aug. 1931	1137	15

PROPERTY OWNERS OF RECORDSTATE OF NEW JERSEYDEPARTMENT OF ENVIRONMENTAL PROTECTIONBASSES BAY/NEW GREтна MAP # 259-2070BURLINGTON COUNTY18 JUNE 1971

<u>OWNER</u>	<u>TAX MAP</u>	<u>BLOCK</u>	<u>LOT</u>
Laurel Run Ent. Inc. Hartford Rd. Delran, N. J. 08075	Township of Bass River Sheet No. 3-Dec. 1963, Revised Oct. 1, 1970.	28	7
Minnie Shropshire N. Maple Ave. New Gretna, N. J.	Township of Bass River Sheet No. 3-Dec. 1963, Revised Oct. 1, 1970.	28	8

WELLS-OSBORNE ISLANDS/NEW GREYNA MAP # 259-2076 SUPPLEMENT

OCEAN COUNTY

18 NOVEMBER 1971

As of 18 November 1971, Map # 259-2076 has been updated to account for the following changes:

Block 325, Lot 28 - now listed as: Mystic Development Corp.
Radio Road
Tuckerton, N. J.

PROPERTY OWNERS OF RECORDSTATE OF NEW JERSEYDEPARTMENT OF ENVIRONMENTAL PROTECTIONWELLS-OSBORNE ISLANDS/NEW GREтна MAP # 259-2076OCEAN COUNTY18 JUNE 1971

<u>OWNER</u>	<u>TAX MAP</u>	<u>BLOCK</u>	<u>LOT</u>
No record of ownership	Little Egg Harbor Twp. Sheet No. 58-May 1963, Revised June 30, 1971	325	17A
Mystic Development Corp Radio Rd. Tuckerton, N. J.	Little Egg Harbor Twp. Sheet No. 24-Sept. 1959, Revised 1970. Sheet No. 28-Sept. 1959, Revised 1968	325	22
Mystic Development Corp. Radio Rd. Tuckerton, N. J.	Little Egg Harbor Twp. Sheet No. 24-Sept. 1959, Revised 1970	325	23
Mystic Development Corp. Radio Rd. Tuckerton, N. J.	Little Egg Harbor Twp. Sheet No. 58-May 1963, Revised June 30, 1971.	325	23A
Dorothy McAnney N. Maple Ave. New Gretna, N. J.	Little Egg Harbor Twp. Sheet No. 24-Sept. 1959, Revised 1970	325	24
Not listed	Little Egg Harbor Twp. Sheet No. 24-Sept. 1959, Revised 1970	325	28
Mystic Development Corp. Radio Rd. Tuckerton, N. J.	Little Egg Harbor Twp. Sheet No. 24-Sept. 1959, Revised 1970. Sheet No. 28-Sept. 1959, Revised 1968.	326	28

PROPERTY OWNERS OF RECORDSTATE OF NEW JERSEYDEPARTMENT OF ENVIRONMENTAL PROTECTIONBIG CREEK/TUCKERTON MAP # 259-2082OCEAN COUNTY 18 JUNE 1971

<u>OWNER</u>	<u>TAX MAP</u>	<u>BLOCK</u>	<u>LOT</u>
No Record of Ownership	Little Egg Harbor Twp. Sheet No. 58-May 1963, Revised June 30, 1971	325	17A
Marine View Corp. 225 Stonehurst Blvd. Freehold, N. J.	Little Egg Harbor Twp. Sheet No. 25-Sept. 1959, Revised 1968	326	21
Mystic Development Corp. Radio Rd. Tuckerton, N. J.	Little Egg Harbor Twp. Sheet No. 24-Sept. 1959, Revised 1970. Sheet No. 25-Sept. 1959, Revised 1968	325	22
Michael Monesson & Robert Shiner 223 Autumn Rd. Lakewood, N. J.	Little Egg Harbor Twp. Sheet No. 25-Sept. 1959, Revised 1968	326	26
Mystic Development Corp. Radio Rd. Tuckerton, N. J.	Little Egg Harbor Twp. Sheet No. 25-Sept. 1959, Revised 1968	326	27
Mystic Development Corp. Radio Rd. Tuckerton, N. J.	Little Egg Harbor Twp. Sheet No. 25-Sept. 1959, Revised 1968. Sheet No. 29-Sept. 1959, Revised 1968	326	28
N. J. Dept. of Conservation Trenton, N. J.	Little Egg Harbor Twp. Sheet No. 25-Sept. 1959, Revised 1968	326	29

PROPERTY OWNERS OF RECORDSTATE OF NEW JERSEYDEPARTMENT OF ENVIRONMENTAL PROTECTIONBIG CREEK/TUCKERTON MAP # 259-2082OCEAN COUNTY18 JUNE 1971

<u>OWNER</u>	<u>TAX MAP</u>	<u>BLOCK</u>	<u>LOT</u>
J. Howard Smith Inc. Shore Rd. Port Monmouth, N. J.	Little Egg Harbor Twp. Sheet No. 25-Sept. 1959, Revised 1968. Sheet No. 29-Sept. 1959, Revised 1968	326	31
N. J. Dept. of Conservation Trenton, N. J.	Little Egg Harbor Twp. Sheet No. 25-Sept. 1959, Revised 1968	326	33
Wm. Fagin 10915 Knights Rd. Phila., Pennsylvania	Little Egg Harbor Twp. Sheet No. 25-Sept. 1959, Revised 1968. Sheet No. 29-Sept. 1959, Revised 1968	326	34
Daniel & Patricia Stevens 700 E. Baldwin St. Hackettstown, N. J.	Little Egg Harbor Twp. Sheet No. 25-Sept. 1959, Revised 1968. Sheet No. 29-Sept. 1959, Revised 1968	326	35

BIG-LITTLE THOROFARE/TUCKERTON MAP # 259-2088 SUPPLEMENT

OCEAN COUNTY

18 NOVEMBER 1971

As of 18 November 1971, Map # 259-2088 has been updated to account for the following changes:

PAGE 2 of 3

Block 326, Lot 61 now listed as: Dr. Edward White
746 Queen Anne Road
Teaneck, New Jersey

PROPERTY OWNERS OF RECORDSTATE OF NEW JERSEYDEPARTMENT OF ENVIRONMENTAL PROTECTIONBIG-LITTLE THOROFARE/TUCKERTON MAP # 259-2088OCEAN COUNTY18 JUNE 1971

<u>OWNER</u>	<u>TAX MAP</u>	<u>BLOCK</u>	<u>LOT</u>
Atlantis International Corp. P. O. Box 158 Tuckerton, N. J.	Little Egg Harbor Twp. Sheet No. 25-Sept. 1959, Revised 1968	326	12
Marine View Corp 225 Stonehurst Blvd. Freehold, N. J.	Little Egg Harbor Twp. Sheet No. 25-Sept. 1959, Revised 1968	326	21
Robert & Elizabeth Laird 58 N. Hamilton Ave. Trenton, N. J.	Little Egg Harbor Twp. Sheet No. 25-Sept. 1959, Revised 1968	326	23
Daniel & Patricia Stevens 700 E. Baldwin St. Hackettstown, N. J.	Little Egg Harbor Twp. Sheet No. 25-Sept. 1959, Revised 1968	326	25
Michael Monesson & Robert Shiner 223 Autumn Rd. Lakewood, N. J.	Little Egg Harbor Twp. Sheet No. 25-Sept. 1959, Revised 1968	326	26
Daniel & Patricia Stevens 700 E. Baldwin St. Hackettstown, N. J.	Little Egg Harbor Twp. Sheet No. 25-Sept. 1959, Revised 1968. Sheet No. 29-Sept. 1959, Revised 1968	326	30

PROPERTY OWNERS OF RECORDSTATE OF NEW JERSEYDEPARTMENT OF ENVIRONMENTAL PROTECTIONBIG-LITTLE THOROFARE/TUCKERTON MAP # 259-2088OCEAN COUNTY18 JUNE 1971

<u>OWNER</u>	<u>TAX MAP</u>	<u>BLOCK</u>	<u>LOT</u>
J. Howard Smith Inc. Shore Rd. Port Monmouth, N. J.	Little Egg Harbor Twp. Sheet No. 25-Sept. 1959, Revised 1968. Sheet No. 29-Sept. 1959, Revised 1968.	326	31
Dr. Edward & Sylvia White 746 Queen Anne Rd. Teaneck, N. J.	Little Egg Harbor Twp. Sheet No. 25-Sept. 1959, Revised 1968. Sheet No. 29-Sept. 1959, Revised 1968	326	32
Not listed	Little Egg Harbor Twp. Sheet No. 25-Sept. 1959, Revised 1968	326	32A
Cape Horn Marina c/o W. R. Scott, Sr. Box 206 Tuckerton, N. J.	Little Egg Harbor Twp. Sheet No. 25-Sept. 1959, Revised 1968. Sheet No. 29-Sept. 1959, Revised 1968. Sheet No. 30-Sept. 1959, Revised 1968	326	37
No record of ownership	Little Egg Harbor Twp. Sheet No. 25-Sept. 1959, Revised 1968. Sheet No. 29-Sept. 1959, Revised 1968.	326	61

PROPERTY OWNERS OF RECORDSTATE OF NEW JERSEYDEPARTMENT OF ENVIRONMENTAL PROTECTIONBIG-LITTLE THOROFARE/TUCKERTON MAP # 259-2088OCEAN COUNTY18 JUNE 1971

<u>OWNER</u>	<u>TAX MAP</u>	<u>BLOCK</u>	<u>LOT</u>
Robert Laird, et ux 58 N. Hamilton Ave. Trenton, N. J.	Little Egg Harbor Twp. Sheet No. 25-Sept. 1959, Revised 1968	327	5
J. Howard Smith Inc. Shore Rd. Port Monmouth, N. J.	Little Egg Harbor Twp. Sheet No. 25-Sept. 1959, Revised 1968	327	33
Daniel Stevens, et ux 700 E. Baldwin Ave. Hackettstown, N. J.	Little Egg Harbor Twp. Sheet No. 25-Sept. 1959, Revised 1968	327	36

PROPERTY OWNERS OF RECORDSTATE OF NEW JERSEYDEPARTMENT OF ENVIRONMENTAL PROTECTIONHORSE FOOT COVE/TUCKERTON MAP # 259-2094OCEAN COUNTY18 JUNE 1971

<u>OWNER</u>	<u>TAX MAP</u>	<u>BLOCK</u>	<u>LOT</u>
Dr. Edward & Sylvia White 746 Queen Anne Rd. Teaneck, N. J.	Little Egg Harbor Twp. Sheet No. 26-Sept. 1959, Revised 1968. Sheet No. 30-Sept. 1959, Revised 1968	326	32
Cape Horn Marina c/o W. R. Scott, Sr. Box 206 Tuckerton, N. J.	Little Egg Harbor Twp. Sheet No. 26-Sept. 1959, Revised 1968. Sheet No. 30-Sept. 1959, Revised 1968	326	37
No record of ownership	Little Egg Harbor Twp. Sheet No. 26-Sept. 1959, Revised 1968	326	61
Otto Froriep Froriep Lane Toms River, N. J.	Little Egg Harbor Twp. Sheet No. 26-Sept. 1959, Revised 1968	327	6
Poultremens Service Corp 28-40 S. Main St. Toms River, N. J.	Little Egg Harbor Twp. Sheet No. 26-Sept. 1959, Revised 1968	327	16
Roger West 112 First Avenue Tuckerton, N. J.	Little Egg Harbor Twp. Sheet No. 26-Sept. 1959, Revised 1968	327	17
Friendly Gun Club, Inc. 87 Union Ave. Manasquan, N. J.	Little Egg Harbor Twp. Sheet No. 26-Sept. 1959, Revised 1968	327	18

BALLANGER CREEK/NEW GREYNA MAP # 266-2070 SUPPLEMENT

OCEAN COUNTY

18 November 1971

As of 18 November 1971, Map # 266-2070 has been updated to account for the following changes:

PAGE 1 of 3

Delete: David Veeder Est. - listed on Block 325, Lot 7

Insert: Mystic Development Corp.
Radio Road
Tuckerton, N. J.

PROPERTY OWNERS OF RECORDSTATE OF NEW JERSEYDEPARTMENT OF ENVIRONMENTAL PROTECTIONBALLANGER CREEK/NEW GRETNA MAP # 266-2070OCEAN COUNTY18 JUNE 1971

<u>OWNER</u>	<u>TAX MAP</u>	<u>BLOCK</u>	<u>LOT</u>
Wm. & Edna Roberts N. Y. Highway (Rt. 9) Tuckerton, N. J.	Little Egg Harbor Twp. Sheet No. 20-Sept. 1959, Revised 1970	325	2
David Veeder Est. 122 Hooper Ave. Toms River, N. J.	Little Egg Harbor Twp. Sheet No. 20-Sept. 1959, Revised 1970	325	7
Mystic Development Corp. Radio Rd. Tuckerton, N. J.	Little Egg Harbor Twp. Sheet No. 20-Sept. 1959, Revised 1970. Sheet No. 24-Sept. 1959, Revised 1970	325	23

PROPERTY OWNERS OF RECORDSTATE OF NEW JERSEYDEPARTMENT OF ENVIRONMENTAL PROTECTIONBALLANGER CREEK/NEW GRETNA MAP # 266-2070BURLINGTON COUNTY18 JUNE 1971

<u>OWNER</u>	<u>TAX MAP</u>	<u>BLOCK</u>	<u>LOT</u>
Robert T. Healey Tax Title Lien 293 Bartolone, N. J.	Township of Bass River Sheet No. 5-Dec. 1963, Revised Oct. 1, 1970	27	29
Laurel Run Ent. Inc. Hartford Rd. Delran, N. J. 08075	Township of Bass River Sheet No. 3-Dec. 1963, Revised Oct. 1, 1970	28	7
Minnie Shropshire N. Maple Ave. New Gretna, N. J.	Township of Bass River Sheet No. 3-Dec. 1963, Revised Oct. 1, 1970	28	8
State of N. J.	Township of Bass River Sheet No. 3-Dec. 1963, Revised Oct. 1, 1970	28	12
State of N. J.	Township of Bass River Sheet No. 6-Dec. 1963, Revised Oct. 1, 1970	29	5
Chas. T. Kline c/o Stockton Bates & Co. Robinson Bldg. Phila., Pa.	Township of Bass River Sheet No. 6-Dec. 1963, Revised Oct. 1, 1970	29	11
Chas. T. Kline c/o Stockton Bates & Co. Robinson Bldg. Phila., Pa.	Township of Bass River Sheet No. 6-Dec. 1963, Revised Oct. 1, 1970	29	12

PROPERTY OWNERS OF RECORDSTATE OF NEW JERSEYDEPARTMENT OF ENVIRONMENTAL PROTECTIONBALLANGER CREEK/NEW GREYNA MAP # 266-2070BURLINGTON COUNTY18 JUNE 1971

<u>OWNER</u>	<u>TAX MAP</u>	<u>BLOCK</u>	<u>LOT</u>
State of N. J.	Township of Bass River Sheet No. 6-Dec. 1963, Revised Oct. 1, 1970	29	12A
State of N. J.	Township of Bass River Sheet No. 6-Dec. 1963, Revised Oct. 1, 1970	29	13

BALLANGER CREEK EAST/NEW GREYNA MAP # 266-2076 SUPPLEMENT

OCEAN COUNTY

18 NOVEMBER 1971

As of 18 November 1971, Map # 266-2076 has been updated to account for the following changes:

Delete: David Veeder Est. - listed on Block 325, Lot 7

Insert: Mystic Development Corp.
Radio Road
Tuckerton, N. J.

PROPERTY OWNERS OF RECORDSTATE OF NEW JERSEYDEPARTMENT OF ENVIRONMENTAL PROTECTIONBALLANGER CREEK EAST/NEW GRETNA MAP # 266-2076OCEAN COUNTY18 JUNE 1971

<u>OWNER</u>	<u>TAX MAP</u>	<u>BLOCK</u>	<u>LOT</u>
Wm. & Edna Roberts N. Y. Highway (Rt. 9) Tuckerton, N. J.	Little Egg Harbor Twp. Sheet No. 20-Sept. 1959 Revised 1970	325	2
David Veeder Est. 122 Hooper Ave. Toms River, N. J.	Little Egg Harbor Twp. Sheet No. 20-Sept. 1959, Revised 1970	325	7
Mystic Development Corp. Radio Rd. Tuckerton, N. J.	Little Egg Harbor Twp. Sheet No. 20-Sept. 1959, Revised 1970	325	8
Mystic Development Corp. Radio Rd. Tuckerton, N. J.	Little Egg Harbor Twp. Sheet No. 24-Sept. 1959, Revised 1970	325	22
Mystic Development Corp. Radio Rd. Tuckerton, N. J.	Little Egg Harbor Twp. Sheet No. 20-Sept. 1959, Revised 1970. Sheet No. 24-Sept. 1959, Revised 1970	325	23

PROPERTY OWNERS OF RECORDSTATE OF NEW JERSEYDEPARTMENT OF ENVIRONMENTAL PROTECTIONMATHIS-RADIO ROADS/TUCKERTON MAP # 266-2082OCEAN COUNTY18 JUNE 1971

<u>OWNER</u>	<u>TAX MAP</u>	<u>BLOCK</u>	<u>LOT</u>
Atlantis International Corp. P. O. Box 158 Tuckerton, N. J.	Little Egg Harbor Twp. Sheet No. 21-Sept. 1959, Revised 1970	326	12
William Fagin 10915 Knights Rd. Phila., Pa.	Little Egg Harbor Twp. Sheet No. 21-Sept. 1959, Revised 1970. Sheet No. 25-Sept. 1959, Revised 1968	326	16
Marine View Corp. 225 Stonehurst Blvd. Freehold, N. J.	Little Egg Harbor Twp. Sheet No. 21-Sept. 1959, Revised 1970. Sheet No. 25-Sept. 1959, Revised 1968	326	21
Mystic Development Corp. Radio Rd. Tuckerton, N. J.	Little Egg Harbor Twp. Sheet No. 56-June 30, 1962, Revised June 30, 1971	326-28	11
Mystic Development Corp. Radio Rd. Tuckerton, N. J.	Little Egg Harbor Twp. Sheet No. 56-June 30, 1962, Revised June 30, 1971	326-28	12
Mystic Development Corp. Radio Rd. Tuckerton, N. J.	Little Egg Harbor Twp. Sheet No. 56-June 1962, Revised June 30, 1971	326-28	13

TUCKERTON COVE/TUCKERTON MAP # 266-2088 SUPPLEMENT

OCEAN COUNTY

18 NOVEMBER 1971

As of 18 November 1971, Map # 266-2088 has been updated to account for the following changes:

PAGE 1 of 3

Block 326, Lot 12G - owner listed as - Atlantic International Corp.
P.O. Box 158
Tuckerton, N. J.

PAGE 2 of 3

Delete: David Veeder, Est. - listed on Block 327, Lot 4

Insert: Atlantic International Corp.
P.O. Box 158
Tuckerton, N. J.

PROPERTY OWNERS OF RECORDSTATE OF NEW JERSEYDEPARTMENT OF ENVIRONMENTAL PROTECTIONTUCKERTON COVE/TUCKERTON MAP # 266-2088OCEAN COUNTY18 JUNE 1971

<u>OWNER</u>	<u>TAX MAP</u>	<u>BLOCK</u>	<u>LOT</u>
Atlantis International Corp. P. O. Box 158 Tuckerton, N. J.	Little Egg Harbor Twp. Sheet No. 21-Sept. 1959, Revised 1970. Sheet No. 25-Sept. 1959, Revised 1968	326	12
Atlantis International Corp. P. O. Box 158 Tuckerton, N. J.	Little Egg Harbor Twp. Sheet No. 21-Sept. 1959, Revised 1970	326	12D
Not listed	Little Egg Harbor Twp. Sheet No. 21-Sept. 1959, Revised 1970. Sheet No. 25-Sept. 1959, Revised 1968	326	12G
Atlantis International Corp. P. O. Box 158 Tuckerton, N. J.	Little Egg Harbor Twp. Sheet No. 21-Sept. 1959, Revised 1970	326	12H
Marine View Corp. 225 Stonehurst Blvd. Freehold, N. J.	Little Egg Harbor Twp. Sheet No. 25-Sept. 1959, Revised 1968	326	21
County of Ocean Municipal Bldg. Tuckerton, N. J.	Little Egg Harbor Twp. Sheet No. 25-Sept. 1959, Revised 1968	326	22
Robert Shiner & Lois Anne Stephanie 415 First St. Lakewood, N. J.	Little Egg Harbor Twp. Sheet No. 21-Sept. 1959, Revised 1970	327	2

PROPERTY OWNERS OF RECORDSTATE OF NEW JERSEYDEPARTMENT OF ENVIRONMENTAL PROTECTIONTUCKERTON COVE/TUCKERTON MAP # 266-2088OCEAN COUNTY18 JUNE 1971

<u>OWNER</u>	<u>TAX MAP</u>	<u>BLOCK</u>	<u>LOT</u>
George Martel 214 Pine Street Jersey City, N. J.	Little Egg Harbor Twp. Sheet No. 21-Sept. 1959, Revised 1970	327	2A
Paul Scrudato, et ux 59 Nutley Ave. Nutley, N. J.	Little Egg Harbor Twp. Sheet No. 21-Sept. 1959 Revised 1970	327	3
David Veeder, Est. 122 Hooper Ave. Toms River, N. J.	Little Egg Harbor Twp. Sheet No. 21-Sept. 1959, Revised 1970	327	4
Atlantis International Corp. P. O. Box 158 Tuckerton, N. J.	Little Egg Harbor Twp. Sheet No. 21-Sept. 1959, Revised 1970. Sheet No. 25-Sept. 1959, Revised 1968	327	4A
Atlantis International Corp. P. O. Box 158 Tuckerton, N. J.	Little Egg Harbor Twp. Sheet No. 21-Sept. 1959, Revised 1970. Sheet No. 25-Sept. 1959, Revised 1968	327	4B
Atlantis International Corp. P. O. Box 158 Tuckerton, N. J.	Little Egg Harbor Twp. Sheet No. 21-Sept. 1959, Revised 1970	327	4C

PROPERTY OWNERS OF RECORDSTATE OF NEW JERSEYDEPARTMENT OF ENVIRONMENTAL PROTECTIONTUCKERTON COVE/TUCKERTON MAP # 266-2088OCEAN COUNTY18 JUNE 1971

<u>OWNER</u>	<u>TAX MAP</u>	<u>BLOCK</u>	<u>LOT</u>
Robert Laird, et ux 700 E. Baldwin Ave. Trenton, N. J.	Little Egg Harbor Twp. Sheet No. 25-Sept. 1959, Revised 1968	327	5
J. Howard Smith Inc. Shore Rd. Port Monmouth, N. J.	Little Egg Harbor Twp. Sheet No. 25-Sept. 1959, Revised 1968	327	33
Not listed	Little Egg Harbor Twp. Sheet No. 25-Sept. 1959, Revised 1968	327	37

BALLANGER CREEK NORTH/NEW GREYNA MAP # 273-2076 SUPPLEMENT

OCEAN COUNTY

18 NOVEMBER 1971

As of 18 November 1971, Map # 273-2076 has been updated to account for the following changes:

PAGE 2 of 2

Insert: on Block 29, Lot 1 - the following owner: John J. Gargan
1829 Pelton Lane
Jacksonville, Florida

PROPERTY OWNERS OF RECORDSTATE OF NEW JERSEYDEPARTMENT OF ENVIRONMENTAL PROTECTIONBALLANGER CREEK NORTH/NEW GRETNA MAP # 273-2076OCEAN COUNTY18 JUNE 1971

<u>OWNER</u>	<u>TAX MAP</u>	<u>BLOCK</u>	<u>LOT</u>
Wm. & Edna Roberts N. Y. Highway (Rt. 9) Tuckerton, N. J.	Little Egg Harbor Twp. Sheet No. 20-Sept. 1959, Revised 1970	325	2
Socrates Investment Corp 16 Spring Valley Dr. S. Tuckerton, N. J.	Little Egg Harbor Twp. Sheet No. 20-Sept. 1959, Revised 1970	325	5

PROPERTY OWNERS OF RECORDSTATE OF NEW JERSEYDEPARTMENT OF ENVIRONMENTAL PROTECTIONBALLANGER CREEK NORTH/NEW GREYNA MAP # 273-2076BURLINGTON COUNTY18 JUNE 1971

<u>OWNER</u>	<u>TAX MAP</u>	<u>BLOCK</u>	<u>LOT</u>
	Township of Bass River Sheet No. 6-Dec. 1963, Revised Oct. 1, 1970	29	1
State of N. J.	Township of Bass River Sheet No. 6-Dec. 1963, Revised Oct. 1, 1970	29	5

TUCKERTON CREEK/TUCKERTON MAP # 273-2088 SUPPLEMENT

OCEAN COUNTY

18 NOVEMBER 1971

As of 18 November 1971, Map # 273-2088 has been updated to account for the following changes:

PAGE 3 of 3

Henry A. III & Rosemary Grande should read Henry A. & Rosemarie Grande.

PROPERTY OWNERS OF RECORDSTATE OF NEW JERSEYDEPARTMENT OF ENVIRONMENTAL PROTECTIONTUCKERTON CREEK/TUCKERTON MAP # 273-2088OCEAN COUNTY18 JUNE 1971

<u>OWNER</u>	<u>TAX MAP</u>	<u>BLOCK</u>	<u>LOT</u>
Colonial Shores Inc. 415 Roselle St. Linden, N. J.	Borough of Tuckerton Sheet No. 7-July 1959	25	1
Loveland Enter., Inc. 330 Walnut Ave. Phila., Pa. 19106	Borough of Tuckerton Sheet No. 8-July 1959	26	6
Loveland Enter., Inc. 330 Walnut Ave. Phila., Pa. 19106	Borough of Tuckerton Sheet No. 8-July 1959	26	7
Robert Skinner Bartlett Ave. Tuckerton, N. J.	Borough of Tuckerton Sheet No. 8-July 1959	26	8
Fred Zimmerman Sloop Landing Rd. Tuckerton, N. J. 08087	Borough of Tuckerton Sheet No. 8-July 1959	27	4
Colonial Shores, Inc. 415 Roselle St. Linden, N. J. 07036	Borough of Tuckerton Sheet No. 13-July 1959	27	5
Colonial Shores, Inc. 415 Roselle St. Linden, N. J.	Borough of Tuckerton Sheet No. 13-July 1959	29	1
Colonial Shores Inc. 415 Roselle St. Linden, N. J.	Borough of Tuckerton Sheet No. 13-July 1959	30	1

PROPERTY OWNERS OF RECORDSTATE OF NEW JERSEYDEPARTMENT OF ENVIRONMENTAL PROTECTIONTUCKERTON CREEK/TUCKERTON MAP # 273-2088OCEAN COUNTY18 JUNE 1971

<u>OWNER</u>	<u>TAX MAP</u>	<u>BLOCK</u>	<u>LOT</u>
Colonial Shores Inc. 415 Roselle St. Linden, N. J.	Borough of Tuckerton Sheet No. 13-July 1959	31	1
Colonial Shores Inc. 415 Roselle St. Linden, N. J.	Borough of Tuckerton Sheet No. 13-July 1959	32	1
Frank Citta 2 Washington Ave. Toms River, N. J.	Borough of Tuckerton Sheet No. 11-July 1959	63	11
Tuckerton Shores, Inc. 744 Broad St. Newark, N. J. 07102	Borough of Tuckerton Sheet No. 11-July 1959	63	12
Not listed	Borough of Tuckerton Sheet No. 11-July 1959	63	13
Frank Citta 2 Washington Ave. Toms River, N. J.	Borough of Tuckerton Sheet No. 10-July 1959 Revised Aug. 1971	84	1-10
Joseph Navarro, etal. 1103 Bradford Dr. Point Pleasant, N. J.	Borough of Tuckerton Sheet No. 12-July 1959	91	21
Tuckerton Shores Inc. 744 Broad Street Newark, N. J. 07102	Borough of Tuckerton Sheet No. 15-July 1959	92	1261 to 1351

PROPERTY OWNERS OF RECORDSTATE OF NEW JERSEYDEPARTMENT OF ENVIRONMENTAL PROTECTIONTUCKERTON CREEK/TUCKERTON MAP # 273-2088OCEAN COUNTY18 JUNE 1971

<u>OWNER</u>	<u>TAX MAP</u>	<u>BLOCK</u>	<u>LOT</u>
Tuckerton Shores Inc. 744 Broad Street Newark, N. J.	Borough of Tuckerton Sheet No. 15-July 1959	110	1
Roy Germanotta 26 Seameadow Dr. Parkertown, N. J.	Little Egg Harbor Twp. Sheet No. 17-1959	293	1
Roy Germanotta 26 Seameadow Dr. Parkertown, N. J.	Little Egg Harbor Twp. Sheet No. 17-1959	293	2
Henry A. III & Rosemary Grande 23 Emory Street Jersey City, N. J. 07304	Little Egg Harbor Twp. Sheet No. 51-Sept. 1959, Revised June 30, 1971.	295	1

NOTE

1. The following lots on the east side of Tuckerton Creek have no block number or ownership listing:

OWNER	LOT
Robert K. Berry 225 Storaunest Drive Freehold, N. J.	52 61A 69
Harold W. Pratt Traser 58 Clay Street Tuckerton, N. J.	70 71
Wm. B. Sims, Est. 221 St. George St. Tuckerton, N. J.	72 73

2. Lot No. 2, Block 327 has no ownership identification. It is located south of Tuckerton on the west side of Tuckerton Creek.

Harry Miller 11 Green St. Tuckerton, N. J.	Borough of Tuckerton 33
Robert Baker, Est. 121 Main St. Vincenton, N. J.	Borough of Tuckerton 34
Anthony Lipp 67 Adams Ave. Central Park St. Amoy, N. J.	Borough of Tuckerton 35
Robert Shiner, et. al. 113 First St. Lakewood, N. J.	Little Egg Harbor 327

TUCKERTON CREEK/TUCKERTON MAP # 273-2088 SUPPLEMENT

OCEAN COUNTY

18 NOVEMBER 1971

As of 18 November 1971, Map # 273-2088 has been updated with the following ownership information:

<u>OWNER</u>	<u>TAX MAP</u>	<u>BLOCK</u>	<u>LOT</u>
Robert K. Berry 225 Stonehurst Drive Freehold, N. J.	Borough of Tuckerton	33	52
Harold & Pratt Kramer 158 Clay Street Tuckerton, N. J.	Borough of Tuckerton	33	61A
Janus E. Otis, Est. 223 S. Green St. Tuckerton, N. J.	Borough of Tuckerton	33	69
Albert Bailey 417 Oak Ave. Warrington, Pa.	Borough of Tuckerton	33	70
Harry Miller S. Green St. Tuckerton, N. J.	Borough of Tuckerton	33	71
Herbert Baker, Est. 130 Main St. Vinceton, N. J.	Borough of Tuckerton	33	72
Anthony Lipo 84 Athens Ave. Central Park So. Amboy, N. J.	Borough of Tuckerton	33	73
Robert Shiner, et. al. 415 First St. Lakewood, N. J.	Little Egg Harbor Twp.	327	2

PROPERTY OWNERS OF RECORDSTATE OF NEW JERSEYDEPARTMENT OF ENVIRONMENTAL PROTECTIONHOOK ROAD/PENNS GROVE-SALEM MAP # 287-1764SALEM COUNTY25 AUGUST 1971

<u>OWNER</u>	<u>TAX MAP</u>	<u>BLOCK</u>	<u>LOT</u>
Jendel Corp. c/o Thos. J. Edwards 4 Greenville Center Greenville, Del.	Lower Penns Neck Twp. Sheet No. 53-Feb. 1, 1959	527	1
Jendel Corp. c/o Thos. J. Edwards 4 Greenville Center Greenville, Del.	Lower Penns Neck Twp. Sheet No. 54-Feb. 1, 1959, Revised Nov. 1, 1968	530	1
Jendel Corp. c/o Thos. J. Edwards 4 Greenville Center Greenville, Del.	Lower Penns Neck Twp. Sheet No. 54-Feb. 1, 1959, Revised Nov. 1, 1968	530	2
Jendel Corp. c/o Thos. J. Edwards 4 Greenville Center Greenville, Del.	Lower Penns Neck Twp. Sheet No. 54-Feb. 1, 1959, Revised Nov. 1, 1968	530	3
Jendel Corp. c/o Thos. J. Edwards 4 Greenville Center Greenville, Del.	Lower Penns Neck Twp. Sheet No. 54-Feb. 1, 1959, Revised Nov. 1, 1968	530	4
Jendel Corp. c/o Thos. J. Edwards 4 Greenville Center Greenville, Del.	Lower Penns Neck Twp. Sheet No. 54-Feb. 1, 1959, Revised Nov. 1, 1968	530	5

Jendel Corp.

c/o Thos. J. Edwards

4 Greenville Center

Greenville, Del.

PROPERTY OWNERS OF RECORDSTATE OF NEW JERSEYDEPARTMENT OF ENVIRONMENTAL PROTECTIONHOOK ROAD/PENNS GROVE MAP # 287-1764SALEM COUNTY 25 AUGUST 1971

<u>OWNER</u>	<u>TAX MAP</u>	<u>BLOCK</u>	<u>LOT</u>
Jendel Corp. c/o Thos. J. Edwards 4 Greenville Center Greenville, Del.	Lower Penns Neck Twp. Sheet No. 54-Feb. 1, 1959, Revised Nov. 1, 1968	530	6
Jendel Corp. c/o Thos. J. Edwards 4 Greenville Center Greenville, Del.	Lower Penns Neck Twp. Sheet No. 54-Feb. 1, 1959, Revised Nov. 1, 1968	530	7
Jendel Corp. c/o Thos. J. Edwards 4 Greenville Center Greenville, Del.	Lower Penns Neck Twp. Sheet No. 50-Feb. 1, 1959	531	1
Jendel Corp. c/o Thos. J. Edwards 4 Greenville Center Greenville, Del.	Lower Penns Neck Twp. Sheet No. 50-Feb. 1, 1959	531	2
Jendel Corp. c/o Thos. J. Edwards 4 Greenville Center Greenville, Del.	Lower Penns Neck Twp. Sheet No. 50-Feb. 1, 1959	531	3
Jendel Corp. c/o Thos. J. Edwards 4 Greenville Center Greenville, Del.	Lower Penns Neck Twp. Sheet No. 50-Feb. 1, 1959	531	4
Jendel Corp. c/o Thos. J. Edwards 4 Greenville Center Greenville, Del.	Lower Penns Neck Twp. Sheet No. 50-Feb. 1, 1959	531	7

PROPERTY OWNERS OF RECORDSTATE OF NEW JERSEYDEPARTMENT OF ENVIRONMENTAL PROTECTIONHOOK ROAD/PENNS GROVE MAP # 287-1764SALEM COUNTY25 AUGUST 1971

<u>OWNER</u>	<u>TAX MAP</u>	<u>BLOCK</u>	<u>LOT</u>
Frances Baynes Sinnickson Lane Pennsville, N. J.	Lower Penns Neck Twp. Sheet No. 54-Feb. 1, 1959, Revised Nov. 1, 1968	532	1
Frances Baynes Sinnickson Lane Pennsville, N. J.	Lower Penns Neck Twp. Sheet No. 54-Feb. 1, 1959, Revised Nov. 1, 1968	532	2
Frances Baynes Sinnickson Lane Pennsville, N. J.	Lower Penns Neck Twp. Sheet No. 54-Feb. 1, 1959, Revised Nov. 1, 1968	532	3
Jendel Corp. c/o Thos J. Edwards 4 Greenville Center Greenville, Del.	Lower Penns Neck Twp. Sheet No. 54-Feb. 1, 1959, Revised Nov. 1, 1968	532	3A
Jendel Corp. c/o Thos. J. Edwards 4 Greenville Center Greenville, Del.	Lower Penns Neck Twp. Sheet No. 54-Feb. 1, 1959, Revised Nov. 1, 1968	532	4
Frances Baynes Sinnickson Lane Pennsville, N. J.	Lower Penns Neck Twp. Sheet No. 54-Feb. 1, 1959, Revised Nov. 1, 1968	537	6
Frances Baynes Sinnickson Lane Pennsville, N. J.	Lower Penns Neck Twp. Sheet No. 54-Feb. 1, 1959, Revised Nov. 1, 1968	537	7

PROPERTY OWNERS OF RECORD

STATE OF NEW JERSEY

DEPARTMENT OF ENVIRONMENTAL PROTECTION

HOOK ROAD/PENNS GROVE MAP # 287-1764

SALEM COUNTY 25 AUGUST 1971

<u>OWNER</u>	<u>TAX MAP</u>	<u>BLOCK</u>	<u>LOT</u>
Jendel Corp. c/o Thos. J. Edwards 4 Greenville Center Greenville, Del.	Lower Penns Neck Twp. Sheet No. 54-Feb. 1, 1959, Revised Nov. 1, 1968	537	8

Notes: Jendel Corp. - listed on Block 537, Lot 8

Insert: Fishing Island Meadow Co.
c/o Jendel Corp.
Thos. J. Edwards
4 Greenville Center
Greenville, Delaware

KATES CREEK MEADOW/PENNS GROVE MAP # 287-1770 SUPPLEMENT

SALEM COUNTY

18 NOVEMBER 1971

As of 18 November 1971, Map # 287-1770 has been updated to account for the following changes:

PAGE 2 of 5

Delete: Frank M. Catalano - listed on Block 71, Lot 11

Insert: Charles Black
Box 224
Trenton, N. J.

PAGE 4 of 5

Delete: Jendel Corp. - listed on Block 531, Lot 14

Insert: Fishing Island Meadow Co.
c/o Jendel Corp.
Thomas J. Edwards
4 Greenville Center
Greenville, Delaware

PROPERTY OWNERS OF RECORDSTATE OF NEW JERSEYDEPARTMENT OF ENVIRONMENTAL PROTECTIONKATES CREEK MEADOW/PENNS GROVE MAP # 287-1770SALEM COUNTY25 AUGUST 1971

<u>OWNER</u>	<u>TAX MAP</u>	<u>BLOCK</u>	<u>LOT</u>
John R. Humphreys 74 Humphreys Ave. Pennsville, N. J.	Mannington Township Sheet No. 22-Feb. 24, 1959, Revised Sept. 30, 1961.	69	23
William L. Basset c/o Frank Catalano R. D. #1 Salem, N. J.	Mannington Township Sheet No. 22-Feb. 24, 1959, Revised Sept. 30, 1961	69	24
Katherine Stahl 160 Ocean Ave. Atlantic City, N. J.	Mannington Township Sheet No. 22-Feb. 24, 1959, Revised Sept. 30, 1961	69	25
John Turner c/o Emma Bennett P. O. Box 6462 Pine Bluff, Arkansas	Mannington Township Sheet No. 22-Feb. 24, 1959, Revised Sept. 30, 1961	69	26
Mannington Township	Mannington Township Sheet No. 22-Feb. 24, 1959, Revised Sept. 30, 1961	70	1
Frank & Rose C. Fichera R. D. #2 Swedesboro, N. J.	Mannington Township Sheet No. 22-Feb. 24, 1959, Revised Sept. 30, 1961	70	2
Albert W. Sherron c/o John R. Humphreys 74 Humphreys Ave. Pennsville, N. J.	Mannington Township Sheet No. 22-Feb. 24, 1959, Revised Sept. 30, 1961.	71	3

PROPERTY OWNERS OF RECORDSTATE OF NEW JERSEYDEPARTMENT OF ENVIRONMENTAL PROTECTIONKATES CREEK MEADOW/PENNS GROVE MAP # 287-1770SALEM COUNTY25 AUGUST 1971

<u>OWNER</u>	<u>TAX MAP</u>	<u>BLOCK</u>	<u>LOT</u>
Albert W. Sherron c/o John R. Humphreys 74 Humphreys Ave. Pennsville, N. J.	Mannington Township Sheet No. 22-Feb. 24, 1959, Revised Sept. 30, 1961	71	5
John Morris c/o John R. Humphreys 74 Humphreys Ave. Pennsville, N. J.	Mannington Township Sheet No. 22-Feb. 24, 1959, Revised Sept. 30, 1961	71	6
John R. Humphreys 74 Humphreys Ave. Pennsville, N. J.	Mannington Township Sheet No. 22-Feb. 24, 1959, Revised Sept. 30, 1961	71	8
John R. Humphreys 74 Humphreys Ave. Pennsville, N. J.	Mannington Township Sheet No. 22-Feb. 24, 1959, Revised Sept. 30, 1961	71	9
Frank M. Catalano R. D. #1 Salem, N. J.	Mannington Township Sheet No. 22-Feb. 24, 1959, Revised Sept. 30, 1961	71	11
Jendel Corp. c/o David Craven 4 Greenville Center Greenville, Del.	Mannington Township Sheet No. 22-Feb. 24, 1959, Revised Sept. 30, 1961	71	12
Joseph E. & Avon Igram R. D. #1 Salem, N. J.	Mannington Township Sheet No. 22-Feb. 24, 1959, Revised Sept. 30, 1961	71	13

PROPERTY OWNERS OF RECORDSTATE OF NEW JERSEYDEPARTMENT OF ENVIRONMENTAL PROTECTIONKATES CREEK MEADOW/PENNS GROVE MAP # 287-1770SALEM COUNTY25 AUGUST 1971

<u>OWNER</u>	<u>TAX MAP</u>	<u>BLOCK</u>	<u>LOT</u>
Frank & Rose Fichera R. D. 2 Swedesboro, N. J.	Mannington Township Sheet No. 22-Feb. 24, 1959, Revised Sept. 30, 1961	71	14
Jendel Corp. c/o Thos. J. Edwards 4 Greenville Center Greenville, Del.	Lower Penns Neck Twp. Sheet No. 53-Feb. 1, 1959	527	1
Jendel Corp. c/o Thos. J. Edwards 4 Greenville Center Greenville, Del.	Lower Penns Neck Twp. Sheet No. 53-Feb. 1, 1959	528	1
Jendel Corp. c/o Thos. J. Edwards 4 Greenville Center Greenville, Del.	Lower Penns Neck Twp. Sheet No. 53-Feb. 1, 1959	529	1
Jendel Corp. c/o Thos. J. Edwards 4 Greenville Center Greenville, Del.	Lower Penns Neck Twp. Sheet No. 50-Feb. 1, 1959	531	1
Jendel Corp. c/o Thos. J. Edwards 4 Greenville Center Greenville, Del.	Lower Penns Neck Twp. Sheet No. 50-Feb. 1, 1959	531	2
Jendel Corp. c/o Thos. J. Edwards 4 Greenville Center Greenville, Del.	Lower Penns Neck Twp. Sheet No. 50-Feb. 1, 1959	531	3

PROPERTY OWNERS OF RECORDSTATE OF NEW JERSEYDEPARTMENT OF ENVIRONMENTAL PROTECTIONKATES CREEK MEADOW/PENNS GROVE MAP # 287-1770SALEM COUNTY25 AUGUST 1971

<u>OWNER</u>	<u>TAX MAP</u>	<u>BLOCK</u>	<u>LOT</u>
Jendel Corp. c/o Thos. J. Edwards 4 Greenville Center Greenville, Del.	Lower Penns Neck Twp. Sheet No. 50-Feb. 1, 1959	531	4
Jendel Corp. c/o Thos. J. Edwards 4 Greenville Center Greenville, Del.	Lower Penns Neck Twp. Sheet No. 50-Feb. 1, 1959	531	5
Jendel Corp. c/o Thos. J. Edwards 4 Greenville Center Greenville, Del.	Lower Penns Neck Twp. Sheet No. 50-Feb. 1, 1959	531	6
Jendel Corp. c/o Thos. J. Edwards 4 Greenville Center Greenville, Del.	Lower Penns Neck Twp. Sheet No. 50-Feb. 1, 1959	531	7
Jendel Corp. c/o Thos. J. Edwards 4 Greenville Center Greenville, Del.	Lower Penns Neck Twp. Sheet No. 50-Feb. 1, 1959	531	11
Jendel Corp. c/o Thos. J. Edwards 4 Greenville Center Greenville, Del.	Lower Penns Neck Twp. Sheet No. 50-Feb. 1, 1959	531	12
Jendel Corp. c/o Thos. J. Edwards 4 Greenville Center Greenville, Del.	Lower Penns Neck Twp. Sheet No. 50-Feb. 1, 1959	531	14

PROPERTY OWNERS OF RECORDSTATE OF NEW JERSEYDEPARTMENT OF ENVIRONMENTAL PROTECTIONKATES CREEK MEADOW/PENNS GROVE MAP # 287-1770SALEM COUNTY25 AUGUST 1971

<u>OWNER</u>	<u>TAX MAP</u>	<u>BLOCK</u>	<u>LOT</u>
Jendel Corp. c/o Thos. J. Edwards 4 Greenville Center Greenville, Del.	Lower Penns Neck Twp. Sheet No. 54-Feb. 1, 1959, Revised Nov. 1, 1968	532	4
Jendel Corp. c/o Thos. J. Edwards 4 Greenville Center Greenville, Del.	Lower Penns Neck Twp. Sheet No. 54-Feb. 1, 1959, Revised Nov. 1, 1963	537	8

PAGE 5 of 5

BEAVER DAM/PENNS GROVE MAP # 294-1764 SUPPLEMENT

SALEM COUNTY

18 NOVEMBER 1971

As of 18 November 1971, Map # 294-1764 has been updated to account for the following changes:

PAGE 1 of 6

Delete: John L. Gedgge - listed on Block 98, Lot 1B

Insert: Patrick Donovan
10 Beaver Ave.
Pennsville, N.J.

PAGE 2 of 6

Delete: Wm. Straughen - listed on Block 98, Lot 20

Insert: Patrick Donovan
10 Beaver Ave.
Pennsville, N. J.

PAGE 3 of 6

All owners listed as "unknown" should now read "Pennsville Township"

Delete: Wm. Straughen - listed on Block 99, Lot 48

Insert: Patrick Donovan
10 Beaver Ave.
Pennsville, N. J.

PAGE 4 of 6

All owners listed as "unknown" should now read "Pennsville Township"

Delete: Wm. Straughen - listed on Block 100, Lot 30
John L. George " " 100 " 36

Insert: Patrick Donovan
10 Beaver Ave.
Pennsville, N. J.

PAGE 5 of 6

Delete: Erling D. &
B. J. Arne D. Darlene - listed on Block 212, Lot 18

Insert: Toffie Collier
437 E. Pittsfield St.
Pennsville, N. J.

PROPERTY OWNERS OF RECORDSTATE OF NEW JERSEYDEPARTMENT OF ENVIRONMENTAL PROTECTIONBEAVER DAM/PENNS GROVE MAP # 294-1764SALEM COUNTY25 AUGUST 1971

<u>OWNER</u>	<u>TAX MAP</u>	<u>BLOCK</u>	<u>LOT</u>
Calvin E. & Calvin T. Hill R. D. #2 Salem, N. J.	Mannington Township Sheet No. 24-Feb. 24, 1959, Revised Sept. 30, 1961	82	11
Geo. A. & Mary Lukosavich 121 N. Repauna Ave. Gibbstown, N. J.	Mannington Township Sheet No. 24-Feb. 24, 1959, Revised July 11, 1960	82	12
Unknown Oak Nixon 164 Woodstown Rd. Salem, N. J.	Mannington Township Sheet No. 24-Feb. 24, 1959, Revised July 11, 1960	82	16
John & Carmen Sassi c/o J. & C. Liquor N. Virginia Ave. Penns Grove, N. J.	Mannington Township Sheet No. 24-Feb. 24, 1959, Revised July 11, 1960	82	17
John & Friede Heiner 243 N. Hook Road Pennsville, N. J.	Lower Penns Neck Twp. Sheet No. 22-Feb. 1, 1959, Revised Nov. 1, 1968	97	1
John & Friede Heiner 243 N. Hook Road Pennsville, N. J.	Lower Penns Neck Twp. Sheet No. 22-Feb. 1, 1959, Revised Nov. 1, 1968	97	2
John L. Gedgge Oakdale Ave. Pennsville, N. J.	Lower Penns Neck Twp. Sheet No. 23-Feb. 1, 1959	98	1B

*BOTTOM OF
LOT #20(OVERLAY)*

PROPERTY OWNERS OF RECORDSTATE OF NEW JERSEYDEPARTMENT OF ENVIRONMENTAL PROTECTIONBEAVER DAM/PENNS GROVE MAP # 294-1764SALEM COUNTY25 AUGUST 1971

<u>OWNER</u>	<u>TAX MAP</u>	<u>BLOCK</u>	<u>LOT</u>
Peter A. Keller, Inc. 106 N. Hook Road Pennsville, N. J.	Lower Penns Neck Twp. Sheet No. 23-Feb. 1, 1959	98	17
Peter A. Keller, Inc. 106 N. Hook Rd. Pennsville, N. J.	Lower Penns Neck Twp. Sheet No. 23-Feb. 1, 1959	98	18
Wm. Straughen 19 W. Maple Ave. Penns Grove, N. J.	Lower Penns Neck Twp. Sheet No. 23-Feb. 1, 1959	98	20
John B. Baratta Guaranty Trust Bldg. Atlantic City, N. J.	Lower Penns Neck Twp. Sheet No. 23-Feb. 1, 1959	99	1
Edgar H. & Marie E. Reihl 73 North River Dr. Pennsville, N. J.	Lower Penns Neck Twp. Sheet No. 23-Feb. 1, 1959	99	2
Edgar H. & Marie E. Reihl 73 North River Dr. Pennsville, N. J.	Lower Penns Neck Twp. Sheet No. 23-Feb. 1, 1959	99	3
Pennsville Township	Lower Penns Neck Twp. Sheet No. 23-Feb. 1, 1959	99	4
Pennsville Township	Lower Penns Neck Twp. Sheet No. 23-Feb. 1, 1959	99	5

PROPERTY OWNERS OF RECORDSTATE OF NEW JERSEYDEPARTMENT OF ENVIRONMENTAL PROTECTIONBEAVER DAM/PENNS GROVE MAP # 294-1764SALEM COUNTY25 AUGUST 1971

<u>OWNER</u>	<u>TAX MAP</u>	<u>BLOCK</u>	<u>LOT</u>
Pennsville Township	Lower Penns Neck Twp. Sheet No. 23-Feb. 1, 1959	99	6
Pennsville Township	Lower Penns Neck Twp. Sheet No. 23-Feb. 1, 1959	99	7
Pennsville Township	Lower Penns Neck Twp. Sheet No. 23-Feb. 1, 1959	99	8
Wm. Straughen 19 W. Maple Ave. Penns Grove, N. J.	Lower Penns Neck Twp. Sheet No. 23-Feb. 1, 1959	99	48
Wm. H. & Marie E. Reihl 73 N. River Dr. Pennsville, N. J.	Lower Penns Neck Twp. Sheet No. 23-Feb. 1, 1959	99	49 <i>IN N.E. CORNER LOT #48 ON OVERLAY</i>
Unknown	Lower Penns Neck Twp. Sheet No. 23-Feb. 1, 1959	100	16
Ed. L. & E. Jane Cant 66 Locust Ave. Pennsville, N. J.	Lower Penns Neck Twp. Sheet No. 23-Feb. 1, 1959	100	17
	Lower Penns Neck Twp. Sheet No. 23-Feb. 1, 1959	100	18
Unknown	Lower Penns Neck Twp. Sheet No. 23-Feb. 1, 1959	100	19

PROPERTY OWNERS OF RECORDSTATE OF NEW JERSEYDEPARTMENT OF ENVIRONMENTAL PROTECTIONBEAVER DAM/PENNS GROVE MAP # 294-1764SALEM COUNTY 25 AUGUST 1971

<u>OWNER</u>	<u>TAX MAP</u>	<u>BLOCK</u>	<u>LOT</u>
Unknown	Lower Penns Neck Twp. Sheet No. 23-Feb. 1, 1959	100	20
Unknown	Lower Penns Neck Twp. Sheet No. 23-Feb. 1, 1959	100	21
Unknown	Lower Penns Neck Twp. Sheet No. 23-Feb. 1, 1959	100	24
Unknown	Lower Penns Neck Twp. Sheet No. 23-Feb. 1, 1959	100	25
Unknown	Lower Penns Neck Twp. Sheet No. 23-Feb. 1, 1959	100	26
Unknown	Lower Penns Neck Twp. Sheet No. 23-Feb. 1, 1959	100	27
Unknown	Lower Penns Neck Twp. Sheet No. 23-Feb. 1, 1959	100	28
Unknown	Lower Penns Neck Twp. Sheet No. 23-Feb. 1, 1959	100	29
Wm. Straughen 19 W. Maple Ave. Penns Grove, N. J.	Lower Penns Neck Twp. Sheet No. 23-Feb. 1, 1959	100	30
John L. George Oakdale Ave. Pennsville, N. J.	Lower Penns Neck Twp. Sheet No. 23-Feb. 1, 1959	100	36

PROPERTY OWNERS OF RECORDSTATE OF NEW JERSEYDEPARTMENT OF ENVIRONMENTAL PROTECTIONBEAVER DAM/PENNS GROVE MAP # 294-1764SALEM COUNTY25 AUGUST 1971

<u>OWNER</u>	<u>TAX MAP</u>	<u>BLOCK</u>	<u>LOT</u>
Wm. Straughen 19 W. Maple Ave. Penns Grove, N. J.	Lower Penns Neck Twp. Sheet No. 22-Feb. 1, 1959, Revised Nov. 1, 1968	101	1
Emma E. Ross Smigelski Lane Pennsville, N. J.	Lower Penns Neck Twp. Sheet No. 24-Feb. 1, 1959, Revised Nov. 1, 1968	106	1
Edna M. Quinnette 33 Maple Ave. Pennsville, N. J.	Lower Penns Neck Twp. Sheet No. 24-Feb. 1, 1959, Revised Nov. 1, 1968	106	7
Not listed	Lower Penns Neck Twp. Sheet No. 24-Feb. 1, 1959, Revised Nov. 1, 1968	106	8
Kenneth & Frances D. Mullen 432 E. Pittsfield St. Pennsville, N. J.	Lower Penns Neck Twp. Sheet No. 22-Feb. 1, 1959, Revised Nov. 1, 1968	107	2B
Erling D. & B. J. Arne D. Dalene 411 E. Pittsfield St. Pennsville, N. J.	Lower Penns Neck Twp. Sheet No. 53-Feb. 1, 1959	212	2
Erling D. & B. J. Arne D. Dalene 411 E. Pittsfield St. Pennsville, N. J.	Lower Penns Neck Twp. Sheet No. 53-Feb. 1, 1959	212	18

PROPERTY OWNERS OF RECORDSTATE OF NEW JERSEYDEPARTMENT OF ENVIRONMENTAL PROTECTIONBEAVER DAM/PENNS GROVE MAP # 294-1764SALEM COUNTY25 AUGUST 1971

<u>OWNER</u>	<u>TAX MAP</u>	<u>BLOCK</u>	<u>LOT</u>
Erling D. & B. J. Arne D. Dalene 411 E. Pittsfield St. Pennsville, N. J.	Lower Penns Neck Twp. Sheet No. 53-Feb. 1, 1959	212	19
Erling D. & B. J. Arne D. Dalene 411 E. Pittsfield St. Pennsville, N. J.	Lower Penns Neck Twp. Sheet No. 53-Feb. 1, 1959	212	20
Jendel Corp. c/o Thos. J. Edwards 4 Greenville Center Greenville, Del.	Lower Penns Neck Twp. Sheet No. 53-Feb. 1, 1959	527	1

PINE ISLAND MEADOW/PENNS GROVE MAP # 294-1770 SUPPLEMENT

SALEM COUNTY

18 NOVEMBER 1971

As of 18 November 1971, Map # 294-1770 has been updated to account for the following changes:

PAGE 8 of 9

Delete: Chas K. & Barbara Mullen - listed on Block 107, Lot 2C

Insert: Florence Blyer
440 E. Pittsfield
Pennsville, N. J.

Lawrence A. & Elsie M. Petrick should read: "Lawrence E. Pedrick"

PAGE 9 of 9

Delete: Erling D. &
B. J. Arne D. Dalene - as listed on Block 212, Lot 21

Insert: "Not on Tax Assessor's List"

PROPERTY OWNERS OF RECORDSTATE OF NEW JERSEYDEPARTMENT OF ENVIRONMENTAL PROTECTIONPINE ISLAND MEADOW/PENNS GROVE MAP # 294-1770SALEM COUNTY25 AUGUST 1971

<u>OWNER</u>	<u>TAX MAP</u>	<u>BLOCK</u>	<u>LOT</u>
Walter H. Hill & Frank H. Butler 939 Kings Highway Swedesboro, N. J.	Mannington Township Sheet No. 22-Feb. 24, 1959, Revised Sept. 30, 1961	69	1
John R. Humphreys 74 Humphreys Ave. Pennsville, N. J.	Mannington Township Sheet No. 22-Feb. 24, 1959, Revised Sept. 30, 1961.	69	2
John R. Humphreys 74 Humphreys Ave. Pennsville, N. J.	Mannington Township Sheet No. 22-Feb. 24, 1959, Revised Sept. 30, 1961	69	3
John R. Humphreys 74 Humphreys Ave. Pennsville, N. J.	Mannington Township Sheet No. 22-Feb. 24, 1959, Revised Sept. 30, 1961	69	4
John R. Humphreys 74 Humphreys Ave. Pennsville, N. J.	Mannington Township Sheet No. 22-Feb. 24, 1959, Revised Sept. 30, 1961	69	5
John R. Humphreys 74 Humphreys Ave. Pennsville, N. J.	Mannington Township Sheet No. 22-Feb. 24, 1959, Revised Sept. 30, 1961	69	6
John R. Humphreys 74 Humphreys Ave. Pennsville, N. J.	Mannington Township Sheet No. 22-Feb. 24, 1959, Revised Sept. 30, 1961	69	7

PROPERTY OWNERS OF RECORDSTATE OF NEW JERSEYDEPARTMENT OF ENVIRONMENTAL PROTECTIONPINE ISLAND MEADOW/PENNS GROVE MAP # 294-1770SALEM COUNTY25 AUGUST 1971

<u>OWNER</u>	<u>TAX MAP</u>	<u>BLOCK</u>	<u>LOT</u>
John R. Humphreys 74 Humphreys Ave. Pennsville, N. J.	Mannington Township Sheet No. 22-Feb. 24, 1959 Revised Sept. 30, 1961	69	8
John R. Humphreys 74 Humphreys Ave. Pennsville, N. J.	Mannington Township Sheet No. 22-Feb. 24, 1959, Revised Sept. 30, 1961	69	9
John R. Humphreys 74 Humphreys Ave. Pennsville, N. J.	Mannington Township Sheet No. 22-Feb. 24, 1959, Revised Sept. 30, 1961	69	10
John R. Humphreys 74 Humphreys Ave. Pennsville, N. J.	Mannington Township Sheet No. 22-Feb. 24, 1959, Revised Sept. 30, 1961	69	11
Albert W. Sherron c/o John R. Humphreys 74 Humphreys Ave. Pennsville, N. J.	Mannington Township Sheet No. 22-Feb. 24, 1959, Revised Sept. 30, 1961	69	12
Daniel Jaquette c/o Dorothy Zane R. D. #1 Penns Grove, N. J.	Mannington Township Sheet No. 22-Feb. 24, 1959, Revised Sept. 30, 1961	69	13
John E. Bernard Stow Creek R. D. #2 Salem, N. J.	Mannington Township Sheet No. 22-Feb. 24, 1959, Revised Sept. 30, 1961	69	14

PROPERTY OWNERS OF RECORDSTATE OF NEW JERSEYDEPARTMENT OF ENVIRONMENTAL PROTECTIONPINE ISLAND MEADOW/PENNS GROVE MAP # 294-1770SALEM COUNTY25 AUGUST 1971

<u>OWNER</u>	<u>TAX MAP</u>	<u>BLOCK</u>	<u>LOT</u>
John R. Humphreys 74 Humphreys Ave. Pennsville, N. J.	Mannington Township Sheet No. 22-Feb. 24, 1959, Revised Sept. 30, 1961	69	15
John R. Humphreys 74 Humphreys Ave. Pennsville, N. J.	Mannington Township Sheet No. 22-Feb. 24, 1959, Revised Sept. 30, 1961	69	16
Thompson Hinchner 15 Allen Ave. Woodstown, N. J.	Mannington Township Sheet No. 22-Feb. 24, 1959, Revised Sept. 30, 1961	69	17
John R. Humphreys 74 Humphreys Ave. Pennsville, N. J.	Mannington Township Sheet No. 22-Feb. 24, 1959, Revised Sept. 30, 1961	69	18
David Banks c/o John R. Humphreys 74 Humphreys Ave. Pennsville, N. J.	Mannington Township Sheet No. 22-Feb. 24, 1959, Revised Sept. 30, 1961	69	19
John R. Humphreys 74 Humphreys Ave. Pennsville, N. J.	Mannington Township Sheet No. 22-Feb. 24, 1959, Revised Sept. 30, 1961	69	20
Charles Acton or William Vanne Man c/o John R. Humphreys 74 Humphreys Ave. Pennsville, N. J.	Mannington Township Sheet No. 22-Feb. 24, 1959, Revised Sept. 30, 1961	69	21

PROPERTY OWNERS OF RECORDSTATE OF NEW JERSEYDEPARTMENT OF ENVIRONMENTAL PROTECTIONPINE ISLAND MEADOW/PENNS GROVE MAP # 294-1770SALEM COUNTY25 AUGUST 1971

<u>OWNER</u>	<u>TAX MAP</u>	<u>BLOCK</u>	<u>LOT</u>
John R. Humphreys 74 Humphreys Ave. Pennsville, N. J.	Mannington Township Sheet No. 22-Feb. 24, 1959, Revised Sept. 30, 1961	69	22
John R. Humphreys 74 Humphreys Ave. Pennsville, N. J.	Mannington Township Sheet No. 22-Feb. 24, 1959, Revised Sept. 30, 1961	69	23
William L. Bassett c/o Frank Catalano R. D. #1 Salem, N. J.	Mannington Township Sheet No. 22-Feb. 24, 1959, Revised Sept. 30, 1961	69	24
Katherine Stahl 160 Ocean Ave. Atlantic City, N. J.	Mannington Township Sheet No. 22-Feb. 24, 1959, Revised Sept. 30, 1961	69	25
John Turner c/o Emma Bennett P. O. Box 6462 Pine Bluff, Arkansas	Mannington Township Sheet No. 22-Feb. 24, 1959, Revised Sept. 30, 1961	69	26
Walter H. Hill 939 King Highway Swedesboro, N. J.	Mannington Township Sheet No. 22-Feb. 24, 1959, Revised Sept. 30, 1961	69	27
John R. Humphreys 74 Humphreys Ave. Pennsville, N. J.	Mannington Township Sheet No. 22-Feb. 24, 1959 Revised Sept. 30, 1961	69	28

PROPERTY OWNERS OF RECORDSTATE OF NEW JERSEYDEPARTMENT OF ENVIRONMENTAL PROTECTIONPINE ISLAND MEADOW/PENNS GROVE MAP # 294-1770SALEM COUNTY25 AUGUST 1971

<u>OWNER</u>	<u>TAX MAP</u>	<u>BLOCK</u>	<u>LOT</u>
John R. Humphreys 74 Humphreys Ave. Pennsville, N. J.	Mannington Township Sheet No. 22-Feb. 24, 1959, Revised Sept. 30, 1961	69	29
Walter H. Hill & Frank H. Butler 939 Kings Highway Swedesboro, N. J.	Mannington Township Sheet No. 22-Feb. 24, 1959, Revised Sept. 30, 1961	69	30, 31
David Kiger & Elwood Kiger c/o John R. Humphreys 74 Humphreys Ave. Pennsville, N. J.	Mannington Township Sheet No. 22-Feb. 24, 1959, Revised Sept. 30, 1961	69	32
Otis M. Sparks R. D. #1 Salem, N. J.	Mannington Township Sheet No. 22-Feb. 24, 1959, Revised Sept. 30, 1961	69	34
John R. Humphreys 74 Humphreys Ave. Pennsville, N. J.	Mannington Township Sheet No. 22-Feb. 24, 1959, Revised Sept. 30, 1961	71	1
John R. Humphreys 74 Humphreys Ave. Pennsville, N. J.	Mannington Township Sheet No. 22-Feb. 24, 1959, Revised Sept. 30, 1961	71	2

PROPERTY OWNERS OF RECORDSTATE OF NEW JERSEYDEPARTMENT OF ENVIRONMENTAL PROTECTIONPINE ISLAND MEADOW/PENNS GROVE MAP # 294-1770SALEM COUNTY25 AUGUST 1971

<u>OWNER</u>	<u>TAX MAP</u>	<u>BLOCK</u>	<u>LOT</u>
Albert W. Sherron c/o John R. Humphreys 74 Humphreys Ave. Pennsville, N. J.	Mannington Township Sheet No. 22-Feb. 24, 1959, Revised Sept. 30, 1968	71	3
Albert W. Sherron c/o John R. Humphreys 74 Humphreys Ave. Pennsville, N. J.	Mannington Township Sheet No. 22-Feb. 24, 1959, Revised Sept. 30, 1968	71	4
Albert W. Sherron c/o John R. Humphreys 74 Humphreys Ave. Pennsville, N. J.	Mannington Township Sheet No. 22-Feb. 24, 1959, Revised Sept. 30, 1968	71	5
John Morris c/o John R. Humphreys 74 Humphreys Ave. Pennsville, N. J.	Mannington Township Sheet No. 22-Feb. 24, 1959, Revised Sept. 30, 1968	71	6
Daniel Jaquette & Dorothy Zane R. D. 1 Penns Grove, N. J. 08069	Mannington Township Sheet No. 22-Feb. 24, 1959, revised Sept. 30, 1961	71	7
John R. Humphreys 74 Humphreys Ave. Pennsville, N. J.	Mannington Township Sheet No. 22-Feb. 24, 1959, Revised Sept. 30, 1961	71	8

PROPERTY OWNERS OF RECORDSTATE OF NEW JERSEYDEPARTMENT OF ENVIRONMENTAL PROTECTIONPINE ISLAND MEADOW/PENNS GROVE MAP # 294-1770SALEM COUNTY25 AUGUST 1971

<u>OWNER</u>	<u>TAX MAP</u>	<u>BLOCK</u>	<u>LOT</u>
N. Alpert, S. Barsky, R. Packard & P. Krechmer 1020 15th St. N.W. Washington, D. C.	Mannington Township Sheet No. 24-Feb. 24, 1959, Revised July 11, 1960	82	7
Calvin E. & Calvin T. Hill R. D. #2 Salem, N. J.	Mannington Township Sheet No. 24-Feb. 24, 1959, Revised July 11, 1960	82	11
Mallard Meadow Co. c/o J. Wriggins 119 Chestnut St. Elmer, N. J.	Mannington Township Sheet No. 24-Feb. 24, 1959, Revised July 11, 1960	82	13
Unknown Oak Nixon 164 Woodstown Rd. Salem, N. J.	Mannington Township Sheet No. 24-Feb. 24, 1959, Revised July 11, 1960	82	16
Wm. W. Smith & Geo. Potter 321 W. Franklin Ave. W. Collingswood, N. J.	Mannington Township Sheet No. 24-Feb. 24, 1959, Revised July 11, 1960	82	16A
John & Carmen Sassi c/o J.&C. Liquor N. Virginia Ave. Penns Grove, N. J.	Mannington Township Sheet No. 24-Feb. 24, 1959, Revised July 11, 1960	82	17
Marvin H. & Lititia Coombs R. D. #1 Salem, N. J.	Mannington Township Sheet No. 24-Feb. 24, 1959, Revised July 11, 1960	82	18

PROPERTY OWNERS OF RECORDSTATE OF NEW JERSEYDEPARTMENT OF ENVIRONMENTAL PROTECTIONPINE ISLAND MEADOW/PENNS GROVE MAP # 294-1770SALEM COUNTY25 AUGUST 1971

<u>OWNER</u>	<u>TAX MAP</u>	<u>BLOCK</u>	<u>LOT</u>
Wm. Straughen 19 W. Maple Ave. Penns Grove, N. J.	Lower Penns Neck Twp. Sheet No. 22-Feb. 1, 1959	101	1
Kenneth & Frances D. Mullen 432 E. Pittsfield St. Pennsville, N. J.	Lower Penns Neck Twp. Sheet No. 22-Feb. 1, 1959	107	2B
Chas. K. & Barbara Mullen E. Pittsfield St. Pennsville, N. J.	Lower Penns Neck Twp. Sheet No. 22-Feb. 1, 1959	107	2C
Lawrence A. & Elsie M. Pedrick 91 Castle Hts. Ave. Pennsville, N. J.	Lower Penns Neck Twp. Sheet No. 22-Feb. 1, 1959	107	3
Lawrence A. & Elsie M. Pedrick 91 Castle Hts. Ave. Pennsville, N. J.	Lower Penns Neck Twp. Sheet No. 22-Feb. 1, 1959	107	3A
Lawrence A. & Elsie M. Pedrick 91 Castle Hts. Ave. Pennsville, N. J.	Lower Penns Neck Twp. Sheet No. 22-Feb. 1, 1959	107	4
Florence Blyler 440 E. Pittsfield St. Pennsville, N. J.	Lower Penns Neck Twp. Sheet No. 22-Feb. 1, 1959	107	6

PROPERTY OWNERS OF RECORDSTATE OF NEW JERSEYDEPARTMENT OF ENVIRONMENTAL PROTECTIONPINE ISLAND MEADOW/PENNS GROVE MAP # 294-1770SALEM COUNTY25 AUGUST 1971

<u>OWNER</u>	<u>TAX MAP</u>	<u>BLOCK</u>	<u>LOT</u>
Leona Breidenbach 444 Pittsfield St. Pennsville, N. J.	Lower Penns Neck Twp. Sheet No. 22-Feb. 1, 1959	107	14
Florence Blylder 446 Pittsfield St. Pennsville, N. J.	Lower Penns Neck Twp. Sheet No. 22-Feb. 1, 1959	107	16
Chas. G. Seeds Box 497 R. D. #3 Sewell, N. J.	Lower Penns Neck Twp. Sheet No. 53-Feb. 1, 1959	212	1
Erling D. & B. J. Arne D. Dalene 411 E. Pittsfield St. Pennsville, N. J.	Lower Penns Neck Twp. Sheet No. 53-Feb. 1, 1959	212	2
Erling D. & B. J. Arne D. Dalene 411 E. Pittsfield St. Pennsville, N. J.	Lower Penns Neck Twp. Sheet No. 53-Feb. 1, 1959	212	20
Erling D. & B. J. Arne D. Dalene 411 E. Pittsfield St. Pennsville, N. J.	Lower Penns Neck Twp. Sheet No. 53-Feb. 1, 1959	212	21
Jendel Corp. c/o Thos. J. Edwards 4 Greenville Center Greenville, Del.	Lower Penns Neck Twp. Sheet No. 53-Feb. 1, 1959	527	1