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## Arvo A. Solander Papers

1930-1960

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Graduating from Harvard in the thick of the Great Depression, Arvo A. Solander worked as a civil and sanitary engineer for a variety of state and federal agencies, including the Civil Works Administration and the Civilian Conservation Corps. During the 1930s, as opportunity arose, he filled positions as a road engineer, in the design and construction of water and sewage plants, in pollution control, as a safety engineer in the shellfish industry, and in mosquito control, taking jobs throughout Massachusetts and as far away as Tennessee. After using his talents as an officer in the Sanitary Corps during the Second World War, based primarily in Arkansas, Solander returned home to Massachusetts and opened a private engineering office in South Hadley. He worked as a civil engineer and surveyor until his death in January 1976.

The Arvo Solander Papers consists of twenty-four bound volumes documenting thirty years of varied work as an engineer, including his contributions to the construction of the Quabbin Reservoir. Within the bound volumes are a wide range of reports, typescripts, sketches and diagrams, graphs, contracts and design specifications, photographs, and postcards.

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## Background on Arvo A. Solander

Born in Wichendon, Mass., on August 26, 1909, the civil engineer Arvo A. Solander graduated from University of Maine and received a Masters Degree in Sanitary Engineering from Harvard University.

During the early years of his engineering career, Solander worked with the State Highway Commission of Maine, building bridges and roads in Eden and Hancock during the summer sessions of his junior year 1930-1932. In the following months, however, the Great Depression made it impossible for Solander to find any work in engineering, leaving him to take a job with the Harvard Employment Bureau. Although he helped engineer a dike for the Quabbin Reservoir, then nearing completion as a water source for metropolitan Boston, Solander was hired only as a "sand dog," paid forty cents an hour for a forty-eight hour work week. His body fell into shape under the intense labor, though his back suffered the consequences.

After leaving the Harvard Employment Bureau, Solander worked for the State Department of Health at the Scituate Shellfish Plant in Scituate, Mass., taking responsibility for maintaining sanitation. While at Scituate, he took a series of examinations for the Massachusetts State Health Department, which opened the door for him to work in industrial waste.

From 1934 to 1935, Solander worked at a Tuberculosis Sanatorium in Rutland,



Arvo A. Solander

about fifteen miles northwest of Worcester, Mass. Funds for this position were supplied in part by the New Deal relief agency, the Public Works Administration. He also worked as a salt marsh mosquito worker for the Massachusetts Reclamation Board, whose funds were supplied by another New Deal agency, the Civil Works Administration. From 1935 to 1937, Solander continued on his round of New Deal agencies, working as a teacher at Lake Dennison for the Civilian Conservation Corps, operating under the jurisdiction of the U.S. Army. The CCC was said to be the best of the various relief agencies in operation during the depression years. Solander taught mechanical drawing three nights a week with a modicum of success, however according to Solander, men selected in relief roles did not seem always interested in broader education.

For the next twenty years, Solander worked as a civil engineer for a long succession of agencies and water-related projects. His work in surveys of water, sewage, and garbage works in Alabama, Florida and Louisiana, he wrote, only "served to show the need for Federal Legislation to conserve one of our most valuable natural resources, water." From February 1941 through May 1942, Solander helped engineer the drainage of almost 18,000 square miles in the Cumberland River Basin while his services were loaned to the Tennessee State Department of Health. During this time, he volunteered for military service with the Army's Sanitary Corps, writing "In retrospect, I can very truthfully say that my work and accomplishments as a commissioned Officer in the Sanitary Corps, U.S. Army, were a greater contribution to the continued freedom of the United States than my civilian activities after the 1941 maneuvers." Solander was commissioned a First Lieutenant, but by the end of the war, he had risen to the rank of Major.

In 1947, while stationed at the District Office of the U.S. Public Health Services in New Orleans, Louisiana, Solander aggravated a hernia and had to be confined to bed for several days. While laid up, the funds for his research on septic tanks ran low, and the project was shut down. "As the son of Finnish emigrant parents," Solander wrote, "it appears that I had reached my peak, namely, the honorary rank of Major in the Sanitary Corps of the United States Army. It did not appear quite proper to assign a man of my age, education, and experience to this type of work. As the record of the past twenty years is reviewed, it seems that as much or more physical work has been done since my Army career than at any other time in my professional career."

While en route from Cincinnati to Winchendon, Solander was hired by the firm of Tighe and Bond, a company that contracted for sewerage work, mostly in West Springfield and Easthampton. Unfortunately, when the owner of Tighe and Bond passed away and the company was bought out, Solander was again out of work. Calling upon his training as a land surveyor, and purchasing the necessary tools, Solander set out on a new path. Becoming familiar with the Hampshire County Commissioners, he took a venture into the political field, running for the Board of Public Health in South Hadley in 1950. Short of cash and time for his campaign, Solander was edged out by 200 votes.

Arvo A. Solander died at the age of 66 on June 9, 1976, in Holyoke Hospital. A member of the First Congregational Church of South Hadley, the American Society of Civil Engineers, American Congress of Surveying and Mapping, Water Pollution Control Federation, Society of American Military Engineers and Engineering Society of Western Mass, he left behind his wife, Elizabeth (Ray) Solander, and three children: Richard F. Nancy Miller, Miss Joan L. Solander, and Mrs. Gregory V (Sarah) Camp.

## Scope of collection

The Solander collection consists of twenty-four bound volumes of letters, reports, and ephemera documenting the ups and downs of the life of a civil engineer during and after the Great Depression. From 1930 to 1958, Solander kept and collected a wide array of information on the varied engineering jobs on which he was employed, including photographs, blue prints, graphs, daily reports, references, journals, diagrams, articles, maps, specifications, and sanitation plans. The range of projects is remarkable: Solander worked primarily on water programs and construction, but at various times, his employers sent him from his home in New England to Tennessee, Mississippi, Louisiana, Alabama, Ohio, and Florida. The final volume includes various newspaper clippings pertaining to political matters, more specifically, pertaining to Solander's campaign for election to the Board of Public Health. There are also flyers and articles on other Massachusetts electives and on the 1960 presidential election.

The material collected in these volumes provides an impressive resume and historical blueprint for the life of an engineer. The photographs and prefaces within the volumes add a personal touch. The majority of the final volume consists of paperwork from Solander's run for office and newspaper ads for himself and his competitors. In addition to material relating to the election in Solander's own district, the volume also includes a few pieces relating to the 1960 presidential election: an article on John F. Kennedy during his years in the Senate and also a five page report issued by U.S. News and World Report entitled "More Light on the '60 Election." Finally, the collection includes twenty-one pieces of ephemera pertaining to political contests in western Massachusetts covering the various nominees for Governor, Senator, and House of Representative. The newspaper clippings mostly include articles on the same nominees.

## Inventory

Volume I

1930-1932 Summers

Box 1: 1

Dedicated to Mother.

Photographs: Hancock Bridge, Eden Bridge, Brunswick Bridge, Belfast Bridge, and concrete road construction in Dexter, Maine

Portioning of Concrete by Leavitt

Offsets for and Areas due to Widening Circular Curves on Pavement

Curb Circles

Sample "Maine" concrete Pavement Report

Sample sheet -- Computation of Quantities

Maine Payroll form

Concrete Endwall Design

Sample Daily Report

Method of Laying out Intersection

Form Used By Contractor for keeping cost of Work and Time of Men

Design of Cofferdams

Cost of Bridge Construction at Hancock, Maine

Volume II

1933 Apr-May

Box 1: 2

Dedicated to Father.

Photographs of Construction of Concrete Caissons at Enfield, Mass.

Contract Submitted by Bidders including the Regulations under which the work shall be done and also plans for Caissons at a reduced size.

Volume III

1933 June-July

Box 1: 3

Dedicated to Wife.

Photographs of Scituate Clam Plant

Shellfish Score Sheets Used at Scituate and Plymouth, Mass

Operation Cards Used at Plymouth and Scituate, Mass

Duties of Game Wardens and Revised Shellfish Laws

Shellfish References

Notes from Report by Wells and Fair

Graph Showing Purification of Clams Transplanting

Article by Wright in A.J.P.H.

USPH Minimum requirements for shellfish control

Chlorination as factor of safety in shellfish production Wells, A.J.P.H., 1929 January

Mass. House Document No 252,1927.- Relative to the Feasibility of Transplanting shellfish

Preliminary Experiments of the effects of Temperature upon the ingestion of bacteria by the clam. Alice Marston, Marine Fisheries 4

Laws of marine fisheries, 1933

Pamphlet on septic tanks

Volume IV

1933 Aug, Dec

Box 1: 4

Dedicated to Daughter Nancy.

Questions asked in course in water supply at U of Maine

Civil Service Examination: Sanitary Engineer- New York and Mass. Civil Engineer -- Mass.

Notes on Bacteriology by Miss Beckler, also Examination

Mass. Laws on Pasteurization and Dairies

References and other literature on Swimming Forms

Municipal wastes, Garbage, and Refuse by Willard Little

Notes, Analyses and Graphs on Investigation of Paper Mill Wastes at the Falulah paper company in Fitchburg, Mass.

Notes, Analyses and Graphs on the Investigation of paper mill wastes at the Crocker-Burbank paper company in Fitchburg, Mass.

Index Map of Topographic sheets for Mass.

Map showing town and City Boundaries in Mass.

Graph for Discharge of Water over a Rectangular Weir

Layout of Worcester, Mass. Sewage Treatment Plant

Dissolved Oxygen Graph for Nashua River

Forms used by the engineering division of the Mass. Health Dept.

Photographs of the Milford sewage treatment plant

Flow diagram of the new activated sludge plant at Leominster, Mass.

Volume VI [misnumbered]

1934 June-Dec

Box 1: 5

Dedicated to Brother Robert.

Photographs of Construction at Rutland, Mass.

Correspondence in regard to forms to be made out

Estimates of Cost and Computations for figuring the quantities to be paid

Circular on asphaltic joint material

Circular on dimensions of vitrified clay pipe

Contract for the reconstruction on sanitary sewers and storm drains

Blue Prints

Notes kept on the Job

Volume V [misnumbered]  
1934 Dec-1935 May  
Box 2: 6  
Dedicated to Sister Bertha.

Photographs of Marshes and dyke at Salisbury, Mass.

References on Mosquitoes

Talk by Wright and Wales

Report to New Jersey Mosquito Extermination Ass. by Wright

Pamphlets put out by CWA on safety, injury, and compensation

Map showing coastal areas in Mass. North of Boston

Pamphlet: The Mosquito in Mass. by R.W. Wales, Consulting Entomologist

Pamphlet: Let's Stop This Invasion, by Cape Cod Chamber of Commerce

Volume VII  
1935 Jan-Mar  
Box 2: 7  
Dedicated to Glen Allen, Brother-in-Law.

Drawing at Civilian Conservation Corps Camp CCC Camp bulletin

Drawings at Murdock School (incomplete)

Freshmen drawings at University of Maine

Volume VIII  
1935 Apr-1937 Feb  
Box 2: 8  
Dedicated to Dorothy, Sister-in-Law.

Computations for a flushing system in a settling tank

Sketch for a homemade dosing tank counter

Capacities of an Imhoff-trickling filter plant

Water and sewage flow graphs for state institutions

Flow graph for a one foot weir

Notes on drainage channels

Detail sketches for distributing error in a closed survey

Stresses in cast iron pipe supported at two points

Siphon problem

Sewer rental charges by Paul Howard

Notes on sand washing

Letter on proposed joint sewage treatment works

Memo on filtering of septic sewage thru sand

Excerpts and general plan from my report on sewage at national Guard Camp

Form used for cross connection inspections

Costs of sewage works

Forms used in connection with construction

Proposal and contract as used by Department of Mental Diseases

Wrentham State School sewerage specifications

Maine Highway specifications

Specifications of Mass. Dept of Public Works

Bristol, R.I. sewerage specifications

Specifications for Miler Siphons



Proposal, contract and specifications for trunk sewer in Rutland by MDC

Plans for Imhoff-trickling filter at Milford by Barbour

Soap Diagrams

Blueprint of shear gate

Plan for well, aerator and iron removal plant for a private estate

Plan of Foxboro Hospital Cesspools -- also former septic tank

Plan of main watersheds in New England

Plan of Wrentham State School sewer beds

Sketch of floats used in Boston Harbor investigation of 1935-1936

Blueprint of small sand washing plant used at Tewksbury Infirmary

Details of manholes covers and frames, catch basin grates and frames, and shear gates

Volume VIII A

1935 Apr-1937 Feb

Box 2: 9

Wrentham State School -- Record Plan of Sewers

Wrentham State School -- Storm Drain

Medfield State Hospital -- Sewerage Improvements (proposed)

Grafton State Hospital -- Drainage Channel

Tewksbury State Infirmary -- Sewage Sand Filters

Westboro State Hospital -- Sewage Sand Filters

Westfield State Sanatorium -- settling and Dosing Tanks

Tewksbury State Infirmary -- Sewage Sand Filters

Tewksbury State Infirmary -- Sewage Sand Filters

Hancock, Maine -- For drawings -- Carrying Place Bridge

Volume IX

1937 Mar-July

Box 3: 10

Dedicated to Herbert Lyndon Ray, Brother-in-Law.

Memorandum -- Time Schedule for completing reports

Original Reports on water Supply and Pollution by river basins

Merrimack River

Blacksone River

Thames River

Taunton River

Narragansett Bay -- Eastern Connecticut Coastal

Massachusetts Coastal

Connecticut River

Map of Metropolitan Boston Water Supply

Report of the New England Regional Planning Commission for the New England Basins -- December 1937 Pgs. 30

Water Resources of New England -- Tables, Maps, Charts, Profiles, Sources of Information -- New England Regional Planning Commission -- November 1, 1937

Volume IX [misnumbered]

1937 Aug-Dec

Box 3: 11

Dedicated to Sadie Lewis Ray.

Photographs of construction work done at Westfield State Sanatorium

Correspondence

Weekly forms on pipe laying -- good for estimates of labor cost

Notes and plan of a standard well connection

Pencil notes on the computations as to stability of the concrete elevated tank foundations

Pamphlet on transit pipe

Specifications and plan of concrete foundations for elevated tank

Plan drawn by Solander for 8" water main connection to new tank

Miscellaneous plans of water main connections and record plans. Plan of headwall at sewage sand filters, etc.

Plan of standard cross - connection constructed at Sanatorium

General Plan of elevated steel tank

General plan of the water mains at the sanatorium

Volume X

1937 Dec-1938 May

Box 3: 12

Dedicated to Herbert Lyndon Ray.

Report -- "Sanitary Survey of Maine Shellfish Areas"

List of areas closed to shellfish digging in Maine

Wrapper used by Underwood on canned clams

Notes on bacteriological procedures obtained from Lawrence Experiment Station

Form - "Inspector's Report o Shellfish Shucking Plant"

Forms used in Mass. to report bacterial results

Correspondence

Form used at filtration plant of Biddeford Saco Water Company

Miscellaneous Maps

Tide tables

Photographs

Volume XII

1938 June-1939 Mar

Box 4: 13

Dedicated to Janet Ripple Ray, Sister-in-Law.

Computation sheet for storm water runoff used by World's Fair designers

Miscellaneous notes on water supply design while with Samuel Ellswork, Consulting Engineer

New York State Shellfish tag

Pamphlet describing Walker-Gordon certified milk plant near Plainsboro, New Jersey

Proof of well water supply in Rockport, Mass. by Metcalf and Eddy including Plan 1- Drawdown curves

Notes from agreement between City of Melrose and Metcalf and Eddy for design and construction of sewers

Notes and sketches from plan of sewer outfall for Rockport, Mass. by Metcalf and Eddy

Notes and sketches for high school sewage disposal system by Weston and Sampson. Also Barbour's method of flushing a sewer siphon

Notes and sketches for slow sand filtration plant at Middleboro, Mass. by Weston and Sampson

Cost estimate for Centreville-Osterville Fire District water supply by Whitman and Howard -- also Plan 2 showing details of gravel packed well

Plan 3 -- Metcalf and eddy, sewer plan for portion of Melrose, Mass.

Plans 4 to 11 inclusive; large sewer plans for North Metropolitan Relief Sewer, drawn by Metropolitan District Commission (Sewer Division) and includes siphon details

Plans 12 -- 15 inclusive; large storm overflow sewer to tide water, drawn by Boston Sewer Division, and includes details of a tide gate and chamber

Specifications by Boston Metropolitan District Commission, water Division, for laying 11,000' of 36" steel pipe and some cast iron pipe, valve chambers, etc.

Proof of well water supply for Lanesboro, Mass. by Samuel Ellsworth including plan 16 -- well drawdown plot

Report on well water supply for Hamilton, Mass. by Whitman and Howard -- includes one general and one specific map of well field area, Plan 17 giving drawdown curves, tales on which are recorded pumping and drawdown data, water analyses and letter from Mass. Health Department

Table showing type, location and total coast of PWA projects under my supervision in New York regional office

"Specimen Contract Documents -- Instructions and Contract Procedure", used at PWA office for reviewing contract documents

Map showing seven regional districts of PWA and states included therein

Specifications by Hayden, Harding and Buchanan for Standpipe and Appurtenances at Bellingham, Mass. including three one page blueprints and Plan 18, Location of Standpipe

Instructions to field force of Procurement Division, Treasury Department, concerning concrete; strength, determining proportions, forms, etc.

Plans and specifications by Whitman and Howard for "Furnishing and Laying Water Mains, Town of Framingham, Mass.

Volume XII A

1938 June-1939 Mar

Box 4: 14

Four plans for the construction of sewage pumping station

One plan and specifications for pumping equipment in the station

Twenty-five plans and specifications for the construction of water pumping stations and furnishing thereof

Volume XIII

1939 March-1942 May

Box 5: 15

Dedicated to Daughter Joanne.

Drainage Basin Committee Report for the Tennessee and Cumberland Basins

National Resources Committee, 1947

1940 Manual for Public Health Engineer on Field Duty with State Health Departments-USPHS Office of Stream Sanitation.

Memorandum 1: December 29, 1938 Manual for Public Health Engineer of Field Duty with State Health Departments

Memorandum 3: Marc, 1939 Manual for Public Health Engineer of Field Duty with State Health Departments (include W,S and I forms)

Supplement to Memorandum 3, April 11, 1939, on Industrial Waste Investigation

Memorandum 4: April 1939, on River Mileage Index System

Memorandum 6: June 1940, on River Mileage Index System

Memorandum 7: September 1940, on Damage to Industry by Acid Mine Drainage

Memorandum 8: March 1939, on collection and biological examination of river water and bottom sediment samples - tables lists plankton found in clear and polluted waters

Memorandum 12: May 6, 1940 Supplemental Chemical Procedures for Upper Ohio River Samples -- USPHS Stream Investigations

Biochemical Oxidation in Acid Water Containing Sewage -- Ruch Loft, Ettinger and Walker, April, 1940

Excerpts from Monthly Activities Bulletin

Ohio River Pollution Survey -- organization chart

Cooperative Studies with Tennessee Valley Authority on Industrial Wastes

Review of North Canadian River Survey (by Mark D. Hollis)

The Sanitary Classification of Stream Waters in Connection with Pollution Abatement Programs -- H.W. Streeter

List of Publications received from M.M. Ellis

Complete Issue for November -- December, 1940

Volume XIII A

1939 Mar-1942 May

Box 5: 16

Tentative outline of proposed method to be followed in developing the Interim Report of the Ohio River Pollution Survey

Physical and Economic Features of the Potomac River

Features of the Upper Mississippi River and Its Watershed

Excerpts on Pollution Control Machinery in Illinois, Indiana, and Ohio

Revision on my Cumberland River Interim Report

Abstract of "Effect of Ponding and Aeration Upon the Biochemical Oxygen Demand of Sulfate Liquor" by M.S. O'Dell, June, 1934

Completed I -- 3 report upon a coke plant

Woolen mill waste analyses -- Tenn. State Health Dept.

Notes and flow sheet for tannin extract plant Coke plant flow diagram

Industrial Water Summary Forms for watersheds

Industrial waste Investigation in Louisville with chemical data forms for individual industries

I-4 report complete on a general dairy Maps

Chattanooga, Tenn. and Vicinity

Knoxville, Tenn. (land use)

Road maps of Tennessee

Cumberland Basin Projects

Tennessee Counties

Tenn. River Basin -- U.S. Engineer Office

Rainfall stations in Tenn. and Cumberland River Basin

Emergency Flood Plan -- Tenn. and Cumberland River Basin

Drainage Areas of Cumberland River

Views of Industry and Commerce on Stream Pollution Compacts

Some Factors essential in building public support for stream pollution abatement

Aspects of Governmental Policy on Stream Pollution Abatement -- H.C. Baity, 1939

Conservation of Wildlife in the Tennessee and Cumberland River Basins -- R.H. Smith

Chemical and Thermal Conditions of Two New lakes in Tennessee -- C.S. Shoup, 1939

Tenn. Public Acts of 1945, on state supervision of water and sewage works

Tenn. Public Acts of 1945, setting up Stream Pollution Control Board

Tenn. regulations on public water supplies

Mass. regulations on pollution

Tenn. regulations on pollution

Report on "Stream Pollution in Tennessee", prepared in the main by S. Leary Jones, 1943-1944

Volume XIII B

1939 Mar-1942 May

Box 5: 17

Industrial Waste reports on the following Industries

Butter and Cheese

Milk and Ice Cream

Milk and Butter

Cheese

Cheese

Butter and Ice Cream

General canning

Silk and cotton hose

Butter



Soft coal washing

Evaporated Milk

Ice Cream

Ice Cream, cheese and milk

Butter

Silk and Cotton hose

Silk and Rayon Ribbon and cloth

Butter and Cheese

Canning (tomatoes)

Milk, butter, and cheese

Fertilizer

Butter and Cheese

Rendering

Canner

Butter

Washing Sand and Gravel

Fertilizer

Brewery

Stoves -- vitreous enameling

Milk and butter

Sand and Gravel

Candy Packing House

Butter, cheese and milk

Candy

Cotton hosiery

Chestnut Board

Buttermilk Condensory

Coke and Illuminating Gas

Butter, Milk, and Cheese

Meat Packing house

Stoves (enameling)

Ice Cream

Sand and Gravel

Silk hosiery

Cheese

Packing House

Oil Refinery

Food Canning

Candy

Canning

Woolen and cotton goods

Ice Cream

Butter

Cheese and Ice Cream

Tannin Extract

Vitreous enameling

Ice Cream

Chemicals

Food Canning

Hosiery

Bleaching

Butter Chemical (carbon disulphide)

Rayon

Transparent paper (cellophane)

Ore Washing

Soft Coal washing

Wool blankets and flannel cloth Oil Refinery

Butter

Volume XIII C

1939 Mar-1942 May

Box 6: 18

Selected Chemical Content of Waters Used by Public Supplies -- Tennessee

List of Public Sewerage Systems in Tennessee

Privy Plan and bill of material

Rating and Approval of Public Water Supplies -- Tennessee

Course of Instruction for Water Works Plant Operators (include papers on Flow of Water in Pipes, Hydraulic Features Involved in the Design of New Water Works and Certification of Water Works Plant Operators)

Regulation on "Control of Swimming Pools and Other Public Bathing Places"

Plan showing typical designs for sewage disposal and sub-surface Filter Systems

Mass. blank report forms for overnight camps and regulations

Essential features in the design of Sanitary Drinking Fountains

Ordinance on garbage collection written by me

Bulletin on Maps

Milk and Milk Products

Sanitation in National Defense Areas, Solander and Morton, 1941

Report on Sanitation Activities Carried on by coffee county health department during second army maneuvers

Library for Sanitarians and Reading list

Sanitary Regulations Governing the location, construction, equipment, and operation of Teacher Corps -- drawn up by Solander

Most probable number tables

Pasteurization of Milk, L.C. Frank, 1932

Plan of Milk House -- Retail Raw Dairy

Plan of Screen Door

Blank Form -- Sanitary Survey of School

Requirements for a Restaurant -- Memphis, Tenn.

Tenn. regulation on washing and bactericidal treatment of utensils

Recommended equipment and procedure for making Jar Test

Lab equipment for water and sewage treatment plants

Various forms used by Tenn. State Health Department

The Soil absorption test

Septic tank and disposal field -- Tenn.

Tools for Imhoff Tank operation

Restaurant inspection form

Fish pool ordinance -- Memphis, Tenn.

Volume XIV A  
1942 May-1946 Feb  
Box 6: 19  
Section I. General

Notes at Lawson General Hospital, Atlanta, Georgia

Two maps of Camp Joseph T. Robinson, Arkansas

Pictures of Sanitary Corps activities

Notes on poison ivy

Inspection, monthly and interstate water forms

My orders and promotions

Letters and recommendation

## Section II. Water Supply

Water treatment in amebiasis and schistosomiasis areas study of water supply consumption at Prisoner of War Camp, Blytheville, Arkansas

Hazen and Williams monographic chart

## Section III. Sewerage

Reports for National Research Council on Camp Joseph T. Robinson, Arkansas

Excerpts from Metcalf and Eddy report for Army camps

## Section IV. Swimming Pools

Regulations

Article on swimming pool cleaner

## Section V. Rodent and Insect Control

Article on DDT and diarrhea rates in prisoner of war camps

Recommended dosages of DDT

Picture with contents of box used to inspect Prisoner of War camps

Rodent Control Bulletin TB Med 144

DDT Insecticides TB Med 194

Fly baits, rats and fumigation memo

## Section VI. Mosquitoes

Article on "Daily Rainfall, temperature and wind records as related to mosquito control"

Article on "Mosquito Control at Camp Joseph T. Robinson, Arkansas"

Pamphlets and pictures on mosquitoes

Construction and operation of light trap

Shipment of entomological specimens

Mosquito control forms

Report on mosquitoes at Camp Robinson in 1941

Annual Report, Camp Robinson, 1942

Annual Report, Camp Robinson, 1943

Annual Report, Camp Robinson, 1944

Volume XIV B

1942 May-1946 Feb

Box 7: 20

Routine inspection reports for Prisoner of War Branch Camp at Murfreesboro, Arkansas

Sanitary survey of Arkansas State Teachers College, Conway

Sanitary survey: Arkansas State College Jonesboro, Ark

Sanitary survey: Army Air Field Walnut Ridge

Monthly inspection reports Army Air Field Blytheville

Sanitary survey: Army Air Field Blytheville

Sanitary survey: Army Air Field Newport

Sanitary survey: AAFTD Lonoke

Sanitary survey: Maumelle Ordnance Works

Sanitary survey: Arkansas Ordnance Works, Jacksonville, Ark.

Sanitary survey: Adams Field Little Rock

Sanitary survey: Camp Joseph T. Robinson, Arkansas

Volume XV

1946 Mar-1947 June

Box 7: 21

Public Health Engineering Abstracts

Manual of Recommended Practice for Shellfish

Ship rat proofing Inspection form

Examination for Sanitary Engineer

Sanitary Needs in Florida

Sanitary Needs in Alabama

Sanitary Needs in Louisiana

Volume XVI

1947 July-Dec

Box 8: 22

Instructions to field Engineers in carrying out the septic tank research project

Recommendations of Joint Committee on Rural Sanitary Rural Sewage Disposal Dec. 1942

Map of Hamilton County, Ohio

Forms used by Hamilton County Health Department

Field Notes

Pamphlet on Garbage Grinder made in Cincinnati

Australian Report on septic tanks 1936

List of Publications from water and Sanitation Investigation station

Report Studies on Household Sewage Disposal Systems



Volume VXII

1948 Jan-1949 June

Box 8: 23

Engineering Report on Sewerage for the town of West Springfield, Mass.

Engineering Report on sewerage for the town of Warren

Engineering report on Ranney method obtaining water (horizontal or radial wells)

1948 South Hadley Fire District #2 meeting

Tighe's report on Manhan River supply for Holyoke

Material require for Wilbraham water main

Drawing of hydrant and connection

1942 Springfield sewage plant statistics

Sterealator data

Article "Pulp and Paper Industry" by Warrick

1940 Massachusetts census

Sewerage estimate for Belchertown

Williamsburg water design

Abstracts for Public Health Engineer

Pipe friction graphs

Pamphlet Warren centrifugal pumps

Tide gate data

Industrial waste data in Easthampton

Horsepower graph -- friction head

Pamphlet Organization and Method for Investigating wastes

Volume XVIII B

1958-1960

Box 8: 24

Dedicated to Daughter Sarah Whipple Solander. This volume contains papers reflecting Solander's political field as well as various papers from state and federal elections including 1960 Presidential Election Kennedy/Nixon.

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## Administrative information

### Access

The collection is open for research.

### Provenance

Gift of Nancy Solander Miller, 2002.

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Processed by Joel Nilles, March 2009.

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English

### Copyright and Use (More information )

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## Search terms

### Subjects

Civil engineers.

Civilian Conservation Corps (U.S.).

Depressions--1929.

Fisheries--Massachusetts.

Mosquitoes--Control.

Quabbin Reservoir (Mass.).

Roads--Design and construction.

Sanitary engineers.

Sewage disposal plants--Design and construction.

United States. Federal Civil Works Administration.

Water--Pollution--Tennessee.

Water-supply--Massachusetts.

Westfield State Sanatorium.

World War, 1939-1945.

Wrentham State School.

### Contributors

Solander, Arvo A. [main entry]

Solander, Arvo A.

### Genres and formats

Photographs.

Scrapbooks.

### Link to similar SCUA collections

Environment

Maritime

Massachusetts (East)

Massachusetts (West)

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Science and technology

World War II



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