

# Attachment A-5

WATER QUALITY MGT.

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DEPT. OF ENV. RESOURCES  
OFFICE OF  
ENV. PROTECTION  
WILKES-BARRE REGION

**BOROUGH OF DUNMORE**

**ACT 537**

**OFFICIAL SEWER PLAN**

**OCTOBER 19, 1988**

**Borough of Dunmore**  
**Act 537**  
**Official Sewer Plan**

This sewer plan has been prepared to serve as the Borough of Dunmore's Official Sewer Plan until a detailed study is completed for the Borough's undeveloped areas. The detailed study or Final Sewer Plan would be undertaken by the Borough after a scope-of-work has been prepared and submitted to the Pennsylvania Department of Environmental Resources PADER for review and approval.

The Sewer Plan has been prepared by the Borough of Dunmore with the assistance and cooperation of the Scranton Sewer Authority.

## Physical Description of Planning Area

The Borough of Dunmore is located in Lackawanna County in northeastern Pennsylvania. The Borough has a total area of 8.98 square miles and a 1986 estimated population of 16,180.

### Topography

The most prominent topographical feature of the borough is the Moosic Mountains which bounds the Borough on the south. The elevation of the Borough varies from a low of 780 feet above sea level in the northwest section of the Borough to a high of 1940 feet in the undeveloped southeast sector of the Borough.

The Borough is located in the Lackawanna River and Roaring Brook drainage basins.

### Geology

The Borough is located in the Appalachian Mountain section of the Valley and Ridge province known as the Anthracite Coal Region. The valley region is comprised of formations of brown and grey sandstones and shales with some rock and numerous mineable coals. The Moosic Mountain area is characterized by a predominantly gray massive cross-bedded rock and sandstone with some shale, light gray to white, coarse grained sandstone and rock.

## Population

The Borough of Dunmore has suffered a declining population since it reached its peak population of 23,000 in 1940. Since that time the population has steadily declined to 16,781 in 1980. The 1986 U.S. Census estimates the Borough population at 16,180.

The Pennsylvania Department of Environmental Resources PADER predicts the local population to continue its decline over the next few decades as follows:

1990 - 15,363

2000 - 14,260

2010 - 12,917

Upon reviewing the census and PADER projections the Borough believes the DER estimates may be slightly lower than actually experienced in the decades ahead, however, the estimates are adequate for sewage planning needs.

The Borough believes the projected populations can be adequately served by the existing waste water treatment facility serving the City of Scranton and the Borough of Dunmore with a design capacity of 163,000 persons in the year 2010.

## Service Area Map

The attached Service Area Map illustrates the existing limits of the Scranton Sewer Authority's service area to accommodate near future development. The Service Area is known to have sufficient capacity not requiring a detailed analysis. The map was prepared by the Scranton Sewer Authority and its consulting engineers, Gannett, Flemming, Cordry and Carpenter Inc. Please refer to attached letter from James C. Elliot, P.E. for additional detail on preparation of the service area map.

GANNETT FLEMING-CORDDRY AND CARPENTER, INC.  
ENGINEERS AND PLANNERS



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July 20, 1988

Mr. Alfred J. Polidori, Manager  
The Sewer Authority of the  
City of Scranton  
307 North Washington Avenue  
Scranton, Pennsylvania 18503

Dear Al:

Re: Scranton Act 537 Plan  
Interim Service Area Map  
Intermunicipal Sewer Service Allocations

Enclosed is a plan (5 prints plus a reproducible) depicting the limits of the Scranton service area with sufficient capacity for near future development. This plan was prepared based on the discussion among Al Magnotta, you, and me on July 14, 1988 regarding the interim response to DER on the Scranton Act 537 Plan update. The limits of the service area shown on the plan are those understood to have sufficient capacity without a more detailed analysis. Such detailed analyses should be performed on certain trunk sewers discussed at our meeting as a part of the 537 Plan update.

Copies of this plan with a transmittal letter should be sent to Scranton and Dunmore for their response to DER.

In the development of this plan, certain information was assembled for the intermunicipal service connections. Comments on these connections are provided below:

1. Dickson City - Only the Siniawa Sewer system connection is referenced. The currently allocated 44,000 gpd listed is based on the analysis of data described on the attached exhibit. Additional flows from the Viewmont Mall (17,000 - 20,000 gpd) and Viewmont Village Apartments (26,000 - 30,000 gpd) are not shown as these developments connect directly to a Scranton sewer.
2. Taylor Borough - The 50,000 gpd current allocation is documented in the attached exhibit.

GANNETT FLEMING

Alfred J. Polidori  
Scranton, Pennsylvania

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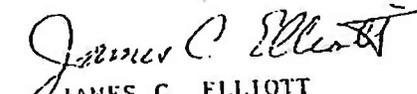
July 20, 1988

3. Montage Sewer System - The map not only lists the amount of the 175,500 gpd capacity that is currently allocated, but also the specific development associated with this allocated flow. (This approach should also be done for Dickson City, but is beyond the scope of this initial task.) My review of these allocations is based in part on information received by telephone from Joe Brogna of DER on July 19. Based on this discussion, only those developments listed as having a WQM Permit or a Planning Module have been approved by DER. This list excludes the proposed Multipurpose (MP) Stadium. A synopsis of the recent planning review process of DER for the Montage Sewer System is provided in a second exhibit for your information.

Please let me know what further activities may be required to assist the Authority in supporting the City in the 537 Plan Update.

Very truly yours,

GANNETT FLEMING CORDDRY AND CARPENTER, INC.

  
JAMES C. ELLIOTT  
Project Manager

JCE:jms

Enclosures

xc: Mr. Albert J. Magnotta, P.E. w/enclosures

JCEJS038.001  
22538.000

7/19/88

SCRANTON ACT 537 PLAN REVISIONS  
 ALLOCATION OF FLOWS TO OTHER MUNICIPAL SEWER SYSTEMS

Montage, Inc.

Allocated:

|  |                   |
|--|-------------------|
| Montage, Inc. (Ski Area) - WQM 3583409                                     | 21,000 gpd        |
| Office Park at Montage - WQM 3586402                                       | 7,500 gpd         |
| Montage Mountain Development -<br>Part A, Phase I (Gilcrest) - WQM 3586403 | 8,820 gpd         |
| Quinn Computer Store - Planning Module                                     | 500 gpd           |
| Gilcrest Restaurant - Planning Module                                      | 3,000 gpd         |
| Ski Shop - Needs Planning Module   | 500 gpd           |
| Prudential Building - Needs Planning Module                                | <u>500 gpd</u>    |
| <b>Total Allocated</b>   | <b>41,820 gpd</b> |

Unallocated:

175,500 - 41,820 - 133,680 gpd

Anticipated:

|  |                     |
|--|---------------------|
| Baseball (MP) Stadium                  | - 80,000 gpd        |
| Montage Mountain Development<br>Part B | - 21,180 gpd        |
| Montage Mountain Commercial            | - 10,020 gpd        |
| Office Park                            | - <u>21,980 gpd</u> |
|  | <b>133,180 gpd</b>  |

B. Taylor Borough

|       | <u>Period (Billing)</u> | <u>Total (gal)</u> | <u>Daily (gpd)</u> |
|-------|-------------------------|--------------------|--------------------|
| Data: | 4th Qtr. - 1986         | 3,842,000          | 42,700             |
|       | 4th Qtr. - 1987         | 3,912,000          | 43,500             |
|       | 1st Qtr. - 1988         | 4,209,000          | 46,800             |

Peaking Factors:

Third quarter is typically highest.  
 Perhaps 1 to 5% greater than other quarters.  
 Use 5% more than greatest value above.

Allocated Flow:

(1.05)(46,800 gpd) - 49,140 gpd  
 Say 50,000 gpd

7/19/88

SCRANTON ACT 537 PLAN REVISIONS

ALLOCATION OF FLOWS TO OTHER MUNICIPAL SEWER SYSTEMS

Sinawa Sewer/Dickson City

|       | <u>Period (Billing)</u>    | <u>Total (gal)</u> | <u>Daily (gpd)</u> |
|-------|----------------------------|--------------------|--------------------|
| Data: | Jan. 1987 - 11/19-12/22/86 | 1,307,000          | 39,600             |
|       | Jan. 1988 - 11/23-12/24/87 | 1,087,000          | 35,100             |
|       | Jan. 1988 - 03/24-04/25/88 | 1,322,000          | 41,300             |

Peaking Factors:

Third quarter is typically highest.  
 Perhaps 1 to 5% greater than other quarters.  
 Use 5% more than greatest value above.

Allocated Flow:

(1.05)(41,300) = 43,365 gpd  
 Say 44,000 gpd

D. Other Dickson City <sup>Scranton</sup> Route 6 Customers

1. Viewmont Village Apartments -  
 Period 3/24 - 4/25/88 - 854,000 gal. - 26,700 gpd
2. Viewmont Mall (50+ accounts) -  
 Period 3/24 - 4/25/88 - 568,000 gal. - 17,800 gpd

Scranton

half & half.

7/19/88

MONTAGE SEWER SYSTEM

RECENT DER PLANNING APPROVAL ACTIVITIES

Date

6/20/86

AJP/L9509 letter to IRBSA requesting compliance with Planning Module requirements (Ski Shop).

7 & 8/86

Preparation and local approvals for MP Stadium project (80,000 gpd). Note 7/2/86 letter of County Commissioners allocating 80,000 gpd to MP Stadium; and AJP/L9580 letter to GSGSB conditionally approving MP Stadium allocation of 80,000 gpd.

9/5/86

AJP/L9628 letter to County, LRBSA, Moosic, and C of C summarizing Montage flow allocation to date.

|                                 |                   |              |
|---------------------------------|-------------------|--------------|
| Montage Ski Area                | 21,000 gpd        | (155,000)    |
| Prudential Building             | 500 gpd           | ( - )        |
| Ski Shop                        | 500 gpd           | ( - )        |
| Gilchrist Development Parts A&B | 30,000 gpd        | ( 8,820)     |
| Office Park (less Hotel)        | 7,500 gpd         | ( 7,500)     |
| MP Stadium                      | <u>80,000 gpd</u> | <u>( - )</u> |
|                                 | 139,500 gpd       | 171,320 gpd  |

Note that DER approved modules to that date included only the flows shown in parenthesis above.

11/4/86

AJP/L9694 letter to various agencies regarding possible public arena plans, noting limited sewer capacity which could be increased only with capital contributions.

11/17/86

AJP/L9709 letter to County (David Rinaldi) concerning unapproved developments (Quinn Computer and Gilcrest Restaurant) not having Planning Module approval.

12/4 &  
12/16/86

Correspondence from Brigid Carey on behalf of Gilcrest regarding Gilcrest/Quinn flow allocations.

12/30/86

DER (Richard Stepanski) letter to County (Harry Lindsay) stating extent of DER approvals to date were limited to:

|                                       |                  |
|---------------------------------------|------------------|
| Montage, Inc. (Ski Area, Area, Motel) | 155,000 gpd      |
| Office Park at Montage                | 7,500 gpd        |
| Montage Mountain (Gilcrest) Part A    | <u>8,820 gpd</u> |

171,320 gpd

Also no DER approvals will exceed the additional 4,180 gpd to total the Scranton Sewer Authority's capacity limitations of 175,500 gpd.

7/19/88

MONTAGE SEWER SYSTEM

RECENT DER PLANNING APPROVAL ACTIVITIES (Cont'd.)

Site

1/8/87

AJP/L9779 letter to Brigid Carey regarding numerous Act 537 planning changes necessary to effect the flow allocations and DER approvals needed by various proposed projects.

1/87

Correspondence from Dominic Surace on Gilcrest/Quinn planning modules.

2/5/87

AJP/L9810 letter to County reiterating needed Act 537 planning changes required to enable any further development.

2/17/87

DER (Lawrence Pawlush) letter approving Quinn's Computer Store planning modules for 500 gpd.

2/18/87

DER (Lawrence Pawlush) letter approving Gilcrest Restaurant planning modules for 3,000 gpd.

3/87

Correspondence between AJP and C of C regarding proposed additions of Office Park at Montage.

4/14/87

County letter to DER (Ron Brezenski) revising Act 537 Plan flow allocations by County and Moosic Borough (transmitted to SSA on 5/15/87 by Dominic Surace).

9/3/87

DER (Lawrence Pawlush) letter to Moosic approving Act 537 Plan revision. Existing flows approved as follows:

|                         |                |
|-------------------------|----------------|
| Montage Ski Area        | 21,000 gpd     |
| Office Park at Montage  | 7,500 gpd      |
| Montage Mountain Part A | 8,820 gpd      |
| Quinn Computer Store    | 500 gpd        |
| Gilcrest Restaurant     | 3,000 gpd      |
| Ski Shop                | <u>500 gpd</u> |

41,320 gpd

All remaining capacity of approximately 134,000 gpd to be reallocated "on a first come first served basis."

7/19/88

Telephone communication from DER (Joe Brogna) to GFCC indicating no other approvals have been granted.

7/19/88

MONTAGE SEWER SYSTEM

RECENT DER PLANNING APPROVAL ACTIVITIES (Cont'd.)

Summary of Montage Sewer System projects having no DER letters approving planning modules for land development:

- Ski Shop (500 gpd) - Existing building in operation.
- Prudential Building (500 gpd) - Existing building in operation.
- MP Stadium (80,000 gpd)
- Montage Mountain Development, Part B
- Montage Mountain Commercial & Office Development
- Office Park Additions

The County and Moosic Borough should be notified of the above.

**Official Sewer Plan**  
**Recommendations**

1. Continue using the Scranton Sewage Treatment Plant (STP) for those areas within the existing service area. (refer to map)

Reasons:

- a) STP has sufficient capacity to meet the year 2010 sewage treatment needs
- b) STP design capacity  
Average--24 MGD, Peak--63 MGD
- c) STP present flow  
Average--15 MGD, Peak--45 MGD
- d) STP projected flows in five years  
Average--17 MGD, Peak--51 MGD

2. For areas outside the Service Area, the following is recommended:

- a) Update The Borough's Official Sewer Plan according to the following time schedule:
  - I. Scope of Services approved by DER 60 days after approval of this interim plan.
  - II. Draft Plan completed and submitted to DER within 120 days of Interim Plan approval.
  - III. Official Sewer Plan adopted by Borough and submitted to DER within 180 days of Interim Plan approval.

## RESOLUTION FOR PLAN REVISION

RESOLUTION OF THE COUNCIL OF DUNMORE BOROUGH, LACKAWANNA COUNTY, PENNSYLVANIA (hereinafter "the municipality").

WHEREAS, Section 5 of the Act of January 24, 1966, P.L. 1535, No. 537, known as the "Pennsylvania Sewage Facilities Act", as amended, and the Rules and Regulations of the Department of Environmental Resources (Department) adopted thereunder, Chapter 71 of Title 25 of the Pennsylvania Code, requires the municipality to adopt an Official Sewage Facilities Plan providing for sewage services adequate to prevent contamination of waters and/or environmental health hazards with sewage wastes, and to revise said plan whenever it is necessary to meet the sewage disposal needs of the municipality, and

WHERE, the municipality has prepared a Sewage Plan which provides for sewage facilities in a portion of Dunmore Borough, and

WHEREAS, Dunmore Borough finds that the Facility Plan described above conforms to applicable zoning, subdivision, other municipal ordinances and plans and to a comprehensive program of pollution control and water quality management.

NOW, THEREFORE, BE IT RESOLVED that the Council of the Borough of Dunmore hereby adopts and submits to the Department of Environmental Resources for its approval as a revision to the "Official Plan" of the municipality, the above referenced Facility Plan. The municipality hereby assures the Department of the complete and timely implementation of the said plan as required by law. (Section 5, Pennsylvania Sewage Facilities Act as amended).

I, Arthur Moran, Secretary, Dunmore Borough Council, hereby certify that the foregoing is a true copy of the Borough's Resolution No. 8-1988, adopted October 19, 1988.

AUTHORIZED SIGNATURE

  
Borough Secretary

BOROUGH SEAL