



Rick Mystrom, Mayor

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*MOA Street Sediment Loading Assessment Data Report*

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# MOA Street Sediment Loading Assessment Data Report

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# 1. INTRODUCTION

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The Municipality of Anchorage (MOA), Watershed Management Section (WMS), is currently studying oil and grit separators (OGS) to determine the feasibility of using these devices for removing coarse sediments, oily sheen, and free-phase oil from storm-water discharges at municipal outfalls. The goal of the current OGS study is to extrapolate pollutant mobilization predictions to all basins in the Anchorage bowl so feasibility of this type of urban storm-water treatment can be assessed area wide (Wheaton et al 1995). MOA street sediment loading rates are basic data for OGS assessment: direct measurement of street sediment loads is necessary for predictive model development.

The Air Quality Section (AQS) of the MOA Department of Health and Human Services has indicated that street sediment loading information would also be useful to them for producing an air quality emissions inventory and identifying specific sources of air particulate in the Anchorage area. Currently, the municipality estimates road silt emissions by applying a United States Environmental Protection Agency (USEPA) estimation method and non-MOA loading rates (USEPA 1995). The method requires, as base information, surface loading on trafficked parts of paved roads. Because street sediment loading rates for cities in more moderate climates are believed to be significantly lower than for Anchorage, loading data specific to MOA are necessary for accurate emission calculations.

Because of their shared interest, WMS and AQS worked jointly to design a street sediment loads assessment project [*MOA Street Sediment Loading Assessment Design* (Wheaton et al 1997)]. Montgomery Watson implemented this assessment project in 1996.

This report contains project data and associated documentation generated for the street sediment loads assessment effort. Individual results are included with limited tabular and graphical summaries.

## 2. EXPLANATION OF DATA SUBMITTAL ELEMENTS

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This data submittal is divided into the following elements:

- Summary information about the field phase of the project are contained in Section 3.0, including a project summary, variations from the project design, notable field observations, and a data validation summary.
- Graphical and tabular summaries of the data are presented in Section 4.0 with brief descriptions.
- References are contained in Section 5.0.
- Sample analysis results and other primary documentation are contained in Appendices A and B. All project data have been entered into a project database which accompanies this document on a CD ROM. The database is composed of related tables: a parent table containing sampling site information (ROADSITE.DBF), and two child tables containing data for individual analyses (SEDDATA.DBF and AQDATA.DBF) and a look-up table defining terms (STRATA.DBF). Hardcopy printouts of each of these tables and definitions of each field are contained in Appendix A. Additional documentation including field note forms (primary field data), and chain-of-custody documentation are compiled in Appendix B.

All tables and figures identified in the text are presented immediately after Section 5.0.

### 3. PROJECT SUMMARY

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The following sections present a project summary, variations from the project design, and results of data validation. These sections are intended to:

- Provide context for the reported data by summarizing assumptions and methods underlying the data collection effort.
- List and explain variations from planning documents.
- Document field observations that may be helpful in understanding project data.
- Identify data that do not meet project objectives.

Detailed descriptions of the project approach and sampling methods, and other project requirements may be found in the project design document.

#### 3.1 Project Summary

The Street Sediment Loading Assessment was initiated to answer questions posed by AQS and WMS managers about the mass, character, spatial and temporal distribution, and sources of sediment on MOA streets. These data are necessary as input for modeling of OGS and air particulate emissions, and for refinement of street sweeping practices (Wheaton et al 1997).

Winter street sanding and vehicle trackout from unpaved alleys were identified in the project design as the major contributors to street sediment build-up to be studied. Based on MOA sanding practices, 33 sampling sites were selected at 18 controlled intersections to represent four major road types (Figure 1). The road types were derived from USEPA classifications based on average daily traffic (ADT) volume: local, collector, minor arterial, and major arterial/freeway. These categories are based on ADTs of  $\leq 2,000$ ; 2,000 - 10,000; 10,000 - 20,000; and  $\geq 20,000$ , respectively. To assess sediment trackout from unpaved alleys, five “trackout” sites were identified where unpaved alleys intersected paved streets.

Sites located at controlled intersections were divided into “intersection” and “non-intersection” areas (Figure 2). Intersection areas include all street surfaces within 100 feet (30.5 meters) of the crossing street. Non-intersection areas include all surfaces from 100 to 200 feet (61 meters) of the crossing street. Trackout sites represent street surfaces on sampled roadways within a 30 feet (9 meter) zone centered about the intersecting unpaved alley. Near each trackout site, a “non-trackout” site was selected to provide control data for assessment of trackout effects. Non-trackout site dimensions were identical to the corresponding trackout sites but were located away from areas directly impacted by trackout sediment and street sand applied to controlled intersections.

Each street area (intersection, non-intersection, trackout) was divided into pavement strata representing “gutter” and “non-gutter” areas (Figure 2). Gutters were measured two feet into the street from the back of the raised curb, including the gutters created by raised medians. Non-gutter strata include all other street surfaces, excluding the tops of raised medians.

Three transects were established each intersection, non-intersection, and trackout area (Figure 2). Transects were typically six inches wide (0.15 meters) and extended gutter-to-gutter across the street. A single gutter and non-gutter sample was composited from the three transects within each area during each sampling round.

Samples for OGS assessment were collected from all sites using a wet/dry shop vacuum with a paper filter-bag. Samples used for air particulate emission calculations were sampled from non-gutter strata only at a selected subset of sites using a high efficiency (HEPA) vacuum (Table 1). The HEPA vacuum used quartz-fiber filters rated to capture  $\geq 99\%$  of 0.0003 mm particles (determined by ASTM Method 2986). Collection of HEPA samples was necessary because of concerns that small particulate would pass through the wet/dry vacuum paper filter. HEPA samples serve as a basis for determining the correlation between data generated by the two sampling methods. Method correlation allows for the use of the larger wet/dry sample dataset in air quality calculations. Data correlation results are presented in Section 4.0.

Samples were collected in the early spring before street sweeping, mid to late spring immediately after street sweeping, and mid-summer (Table 1). Because determination of street sweeping efficiency is a project objective, sampling sites identified in the design document were excluded from the project if they were swept before sampling. Where possible, similar sites were substituted. The second sampling round occurred as soon as possible after street sweeping.

At the request of AQS, samples of dirt were collected from a trackout alley. Two wet/dry vacuum samples and one HEPA vacuum sample were collected from the unpaved alley adjacent to 15th east of Columbine by brushing the vacuum head lightly over the road surface. Only one transect across the entire alley was sampled.

All samples were analyzed for particle size distribution (sieve analysis) using ASTM method C136 with a wet wash (sieve sizes 38.1 mm, 19.0 mm, 9.5 mm, 4.76 mm, 2.00 mm, 0.84 mm, 0.42 mm, 0.149 mm, 0.105 mm, and 0.074 mm).. Air quality samples were split prior to analysis and the unanalyzed portion was returned to AQS for further chemical/physical testing. Sediment loadings were calculated from transect area and sieve analysis data for the following sediment size classes:

- Total sediment load;
- OGS treatable load ( $\geq 0.10$  mm);
- OGS non-treatable load ( $< 0.10$  mm); and
- Air-suspendable load ( $\leq 0.075$  mm).

As noted above, hardcopy sieve analysis results are presented in Appendix A, with a digital copy of the data contained in the attached CD ROM. Data for samples collected using the HEPA vacuum are listed in the AQDATA database. Wet/dry vacuum collected samples are contained in the SEDDATA database. Site survey sketches for each sampling site and field notes for each sampling episode are contained in Appendix B. These field data are summarized in the ROADSITE database.

Data for the three alley dirt samples are presented as hard copy sieve analysis plots only (Appendix A).

## **3.2 VARIATIONS FROM DESIGN**

Due to unforeseen circumstances, several aspects of the original project design were changed to meet field conditions. These variations include changes in where (spatial network), when (temporal network), and how (sampling procedures) samples were collected. The following sections itemize these changes.

### **3.2.1 Spatial Network Variations**

Originally, 62 sites were selected for sample collection. Adjacent to 13 of these sites, trackout areas were selected for measurement of sediments transported to paved roads from adjacent unpaved alleys.

During the first sampling round, ice and water at many of the sampling sites prevented routine sample collection, increasing the time required at each site. In contrast, streets were rapidly swept by MOA street maintenance crews without regard to snow and ice. As a result, many of the sites originally identified in the design document were swept before sampling. Because pre-street sweeping data is critical to project objectives, those streets that were swept prior to sampling were eliminated from the assessment project. Where possible, similar unswept streets were substituted.

In all, 33 sites were selected (not including 36th east of New Seward which was inadvertently sampled). Five of the selected sites contain trackout areas (Table 1).

### **3.2.2 Temporal Network Variations**

Five sampling periods were selected in the project design to measure end-of-winter sediment loads, street sweeping effects, summer sediment build-up rates, and periods of historically high air suspended particulate (Wheaton et al 1997):

- Pre-street sweeping (March 30 - April 10);
- Post-street sweeping (April 10 - early May);
- Early summer (late May to late June);
- Mid-summer (starting August 1); and
- Freeze-up (mid-October).

Due to budget limitations, the early summer round was eliminated. Because of early season snowfall, the mid-October sampling round was canceled.



Because of the project requirement for repeated sampling at established locations, only those sites sampled in round one were considered for sampling during subsequent rounds. The following bullets summarize exceptions to this requirement:

- In an effort to maximize the amount of data collected, ten sites were added during the third sampling round. Due to budget constraints, only gutters were sampled. These sites are identified in the NOTES field of the ROADSITE database.
- Because the adjacent unpaved alleys were frozen and therefore not contributing sediment to the street, trackout sites were not sampled during round one. Sampling at these sites occurred only during the third sampling round.
- At the following three sites, samples were not collected during all rounds:
  - King St. at Dimond Blvd. was not sampled during round one because of snow and ice cover.
  - 21st. Ave. and Blueberry was swept ahead of schedule, prior to the planned pre-sweep sampling date. The site was sampled during subsequent sampling rounds because it is part of a larger MOA sediment washoff data collection project requiring street sediment load data.
  - Northern Lights at Spenard was not sampled during round two. Because project objectives required sampling as soon as possible after street sweeping, field crews postponed sampling in anticipation that the site would be swept some time during the round two time frame. However, the second street sweeping event did not occur until the round three time frame.
  - 36th west of New Seward was not sampled during round one due to time constraints.

### 3.2.3 Sampling Procedure Variations

During round one, significant standing water and mud were encountered at 16 gutter sampling locations (eight sites). At sites with standing water, a square end shovel was used to scoop the sample into plastic garbage bags. Similarly, sites with dense mud were sampled with a broom and shovel. These alternate collection methods were used because paper filters were used in the wet/dry vacuum to trap the sample, and because the vacuum strength was not sufficient to effectively remove wet, sticky sediment from the road surface. Samples collected using these methods are identified in the “Notes” field of the project database. A list of the affected samples and the implications of these variant sampling methods are presented in Section 3.4.

### 3.3 Notable Field Observations

During sample collection, field crews observed several phenomena that influenced sediment distributions on the street surface. These observations are described below:

- Street sediment tends to concentrate in less traveled areas of the street. This process results in higher sediment loads in gutters, medians, and between lanes than in regions of the street that are directly traveled (Figure 3, Photo1). Sediment load stratification was

noted in street gutters during all sampling rounds, but was present on the trafficking surface primarily during round one.

- During street sweeping, municipal crews were required to sweep around parked cars, resulting in incomplete removal of street sediment in or near the gutter (Figure 3, Photo 2). Parked cars were most common in residential areas.
- An evenly distributed layer of fine sediment was noticeable on the trafficking surface after street sweeping and periods of moderate to strong wind. The sediment layer remaining after street sweeping tended to be most evident within approximately five to eight feet of the gutter (Figure 3, Photo 3). Wind transported particles formed an even layer over all surfaces (Figure 3, Photo 4).

### 3.4 Data Validation

Project data were validated to ensure consistency with the type, quality, and quantity of information identified in planning documents. Methods for validation include on-site inspections of field procedures and a comprehensive review of field and sieve analysis data.

#### 3.4.1 On-site Inspections

Two on-site inspections were conducted by the project scientist on 3/21/96 (at Old Seward and 36th) and 4/16/96 (at 36th and New Seward) to assess compliance with approved sampling and documentation procedures. In both cases, simple observation of sampling techniques and documentation practices was used to verify compliance. Additionally, periodic spot checks of field data were performed as an on-going documentation check.

With the exception of the modified sampling procedures noted above and environmental complications encountered during round one (described below), no anomalies were either observed during the on-site audits or noted from field data reviews.

Standing water and ice were encountered at 16 gutter sampling locations during round one. Because normal sampling methods were not suitable for these conditions, sediment was collected using a shovel or broom and shovel. Some particle size data from these 16 samples are assumed to be biased low. This conclusion is based on the observation that a portion of the finer sediment remains in standing water or stuck to the asphalt after sampling with a shovel or broom. Although data collected from these sites is probably biased low, the effect of this bias on summary statistics and conclusions derived from the whole data set is believed to be negligible. Similarly, field observations suggest that a majority of the sample was collected, and the larger particle sizes may have been almost entirely recovered. Consequently, these results have been qualified, but not removed from the database. Samples collected using the modified sampling procedures are listed below and identified in the “Notes” field of the SEDDATA database.

Site	Road Type	Pavement Strata	Sample Date	Collection Method
13th east of Karluk	Local	IG, NIG	4/5/96	Shovel
15th east of Columbine	Local	IG, NIG	4/10/96	Shovel
16th east of Columbine	Local	IG, NIG	4/2/96	Shovel
9th east of Karluk	Collector	IG, NIG	4/5/96	Broom
Columbine north of 16th	Local	IG, NIG	4/2/96	Shovel
Columbine south of 15th	Local	IG, NIG	4/10/96	Broom
Karluk north of 13th	Collector	IG, NIG	4/5/96	Shovel
Karluk north of 9th	Collector	IG, NIG	4/5/96	Broom

IG - Intersection Gutter

NIG - Non-intersection Gutter

During sampling round one, gutter ice, damp street surfaces, and large sediment loads complicated sample collection. These complications included difficulty in chipping ice away from the sampling transects, recovering light to moderately wet sediment from the pavement surface, and overloading of the HEPA vacuum. Although these conditions were widely encountered, they generally did not preclude reasonable sample collection. However, when compared to the two subsequent sampling rounds, data from round one exhibits both increased variability and lower correlation between co-collected HEPA and wet/dry vacuum sample data. These data effects (described more fully in Section 4.0) are believed to be due largely to the environmental conditions encountered in round one. Because these conditions are inherent to sampling street sediment loads in the early spring, the data are considered less comparable than rounds two and three, but still valid.

### 3.4.2 Review of Field and Sieve Analysis Data

A comprehensive field data review was performed at the end of each sampling round by field crews. These reviews included verification of field notes and the accuracy of data transcription to the project database. At the conclusion of the field phase, the transfer of field data to the database was independently validated by an engineer not previously involved in the project.

Primary review of digital sieve analysis data was performed by the geotechnical laboratory, Rodney P. Kinney and Associates (RPKA) of Eagle River, Alaska. Although hardcopy sieve plots were provided by RPKA for some round one data, most data were requested and provided only in digital form. To validate the sieve data, sieve plots were created for those results transmitted only in digital form, and then all plots were reviewed to verify that the data were reasonable.

The possibility of erroneous data was also investigated by a review of field notes, site photos, and graphical displays of the data. Although some data points are outliers (they do not fit the overall distribution of the data), none have been determined to be erroneous. It is important to note that the statistical tools used to summarize the data are non-parametric (e.g., medians), and therefore robust against the disproportionate influence of outliers. Consequently, outliers were not excluded from the dataset.

While coordinating sample collection dates and locations with DPW street maintenance, MOA street sweeping records were obtained and archived for future use in determining the elapsed time between street sweeping and sampling. Upon entering these data into the project database, it became apparent that the records were incomplete for some sampling locations. To fill these data gaps, missing street sweeping dates were estimated by Montgomery Watson based on best professional judgment. These estimated dates are qualified in the ROADSITE database with an “E” qualifier.

During review of the sieve analysis plots, it was noted that results were not received for the non-intersection, non-gutter sample collected 3/21/96 from 36th Ave. west of Old Seward (Sample 36NING032196). Conversations with the project laboratory indicated that the sample was lost during analysis. Data for all other requested sample analyses were received.

## 4. PROJECT DATA SUMMARY

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Project data have been graphically and tabularly summarized to provide basic interpretive information about the sediment loads present on MOA streets during the spring and summer of 1996. Further data analysis is beyond the scope of this data report. The following sections describe basic sediment characteristics and their changes over time and space during the sample collection period. Referenced tables and graphs follow Section 5.0, References.

### 4.1 HEPA and Wet/Dry Vacuum Data Correlation

As noted in Section 3.0, the efficiency of air suspendable sediment recovery by the wet/dry vacuum was not known prior to the street sediment loads field effort. In the anticipation that data from the less expensive wet/dry vacuum sample collection may be used for air pollution modeling, samples were collected using both HEPA and wet/dry vacuums from side-by-side transect at approximately 25% of the sites to provide the basis for determining a method correlation. The correlation between the HEPA and wet/dry vacuums is graphically presented in Figure 4 for both total sediment and the air suspendable fraction ( $\leq 0.075$  mm) of the sample. Table 2 presents the data used to determine the correlation, segregated by sampling round, and the resultant least squares regression curve fit.

Correlation analysis indicates that the HEPA vacuum was generally less efficient in collecting the air suspendable fraction (ASF) than the wet/dry vacuum, as shown by slopes of less than 1 (Table 2). With the exception of the ASF collected during round one, the correlation coefficients for all comparisons indicate a highly linear relationship ( $r \geq 0.90$ ) between the HEPA and conventionally collected samples (Table 2). This linear relationship coupled with the correlation data suggest that the HEPA data may be used with other project data to assess street sediment loads after adjustment to account for the lower collection efficiency.

### 4.2 Data Trends

This section presents data trend summaries for total and air-suspendable sediment collected by the wet/dry vacuum. Total loads are presented for entire road surface (gutter and non-gutter areas). Air suspendable loads are presented for only the trafficking surface because sediment in the gutter is considered by USEPA protocols to be unavailable for air suspension. Graphical and tabular summaries are shown for changes in sediment loads by sampling round (temporal change), road type and trackout area (spatial change), and street surface (spatial change).

#### Total Sediment Load (Table 3)

For total particulate unit loads decrease from sampling round one to three for all road types. Results also suggest that unit loads increase with increasing ADT for round one; however, this trend is not present for rounds two and three.

Trackout data suggest a significant increase in sediment contribution from unpaved alleys ( $99.6 \text{ g/m}^2$ ) when compared to non-trackout areas ( $27.5 \text{ g/m}^2$ ).

Intersection areas appear to have higher unit loads (418.7 g/m<sup>2</sup>) than non-intersection areas (310.9 g/m<sup>2</sup>) for round one data. This trend does not hold for rounds two and three.

#### Air-suspendable Load (Table 3)

Air-suspendable load differences between rounds one and two are relatively small for local streets (18.4 g/m<sup>2</sup> vs. 15.3 g/m<sup>2</sup>) and collectors (9.4 g/m<sup>2</sup> v.s. 10.7 g/m<sup>2</sup>). Differences between rounds one and two are more pronounced for high ADT streets (6.7 g/m<sup>2</sup> v.s. 1.3 g/m<sup>2</sup> for minor arterials and 20.4 g/m<sup>2</sup> v.s. 3.7 g/m<sup>2</sup> for major arterials). Round three loads are lower than round two for all road types. Trackout areas contained a higher air-suspendable load (6.9 g/m<sup>2</sup>) than non-trackout areas (3.1 g/m<sup>2</sup>).

Intersection areas (13.8 g/m<sup>2</sup>) appear to have higher air-suspendable unit loads than non-intersection areas (4.7 g/m<sup>2</sup>) for round one data. No clear trend emerges, however, for rounds two and three.

### **4.3 Data Summaries By Particle Size Classification**

Tables 5 through 10 present median unit sediment loads by round and road type for all pavement strata (gutter and non-gutter areas), street surfaces (intersection and non-intersection areas), and track out areas. These data are presented in separate tables for each of the different particle size classes that have been identified as critical to the OGS assessment project and AQS: total (all particle sizes); air suspendable ( $\leq 0.074$  mm); OGS treatable ( $\geq 0.10$  mm); and OGS non-treatable ( $\leq 0.10$  mm). Data from HEPA and wet/dry vacuum collected samples are segregated.

To provide a measure of variability and statistical reliability, the upper and lower quartiles, and number of data points used to determine each median are also listed.

Note that during sample analysis, a portion of the total sample was typically entrained in the wet/dry vacuum filter bag. This fraction was assumed to be  $\leq 0.074$  mm and was included in air-suspendable, total sediment, and OGS-nontreatable load calculations.

## 5. REFERENCES

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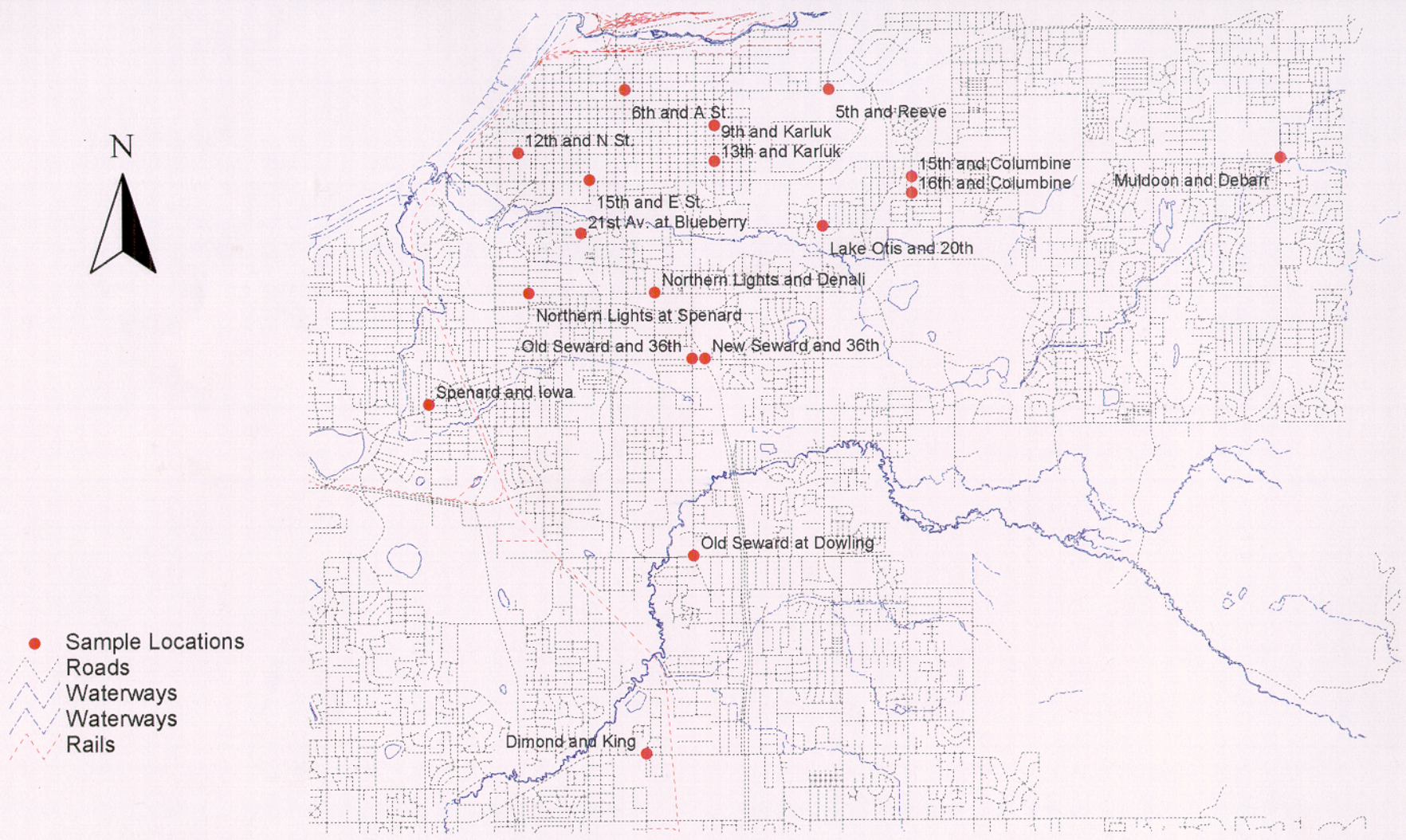
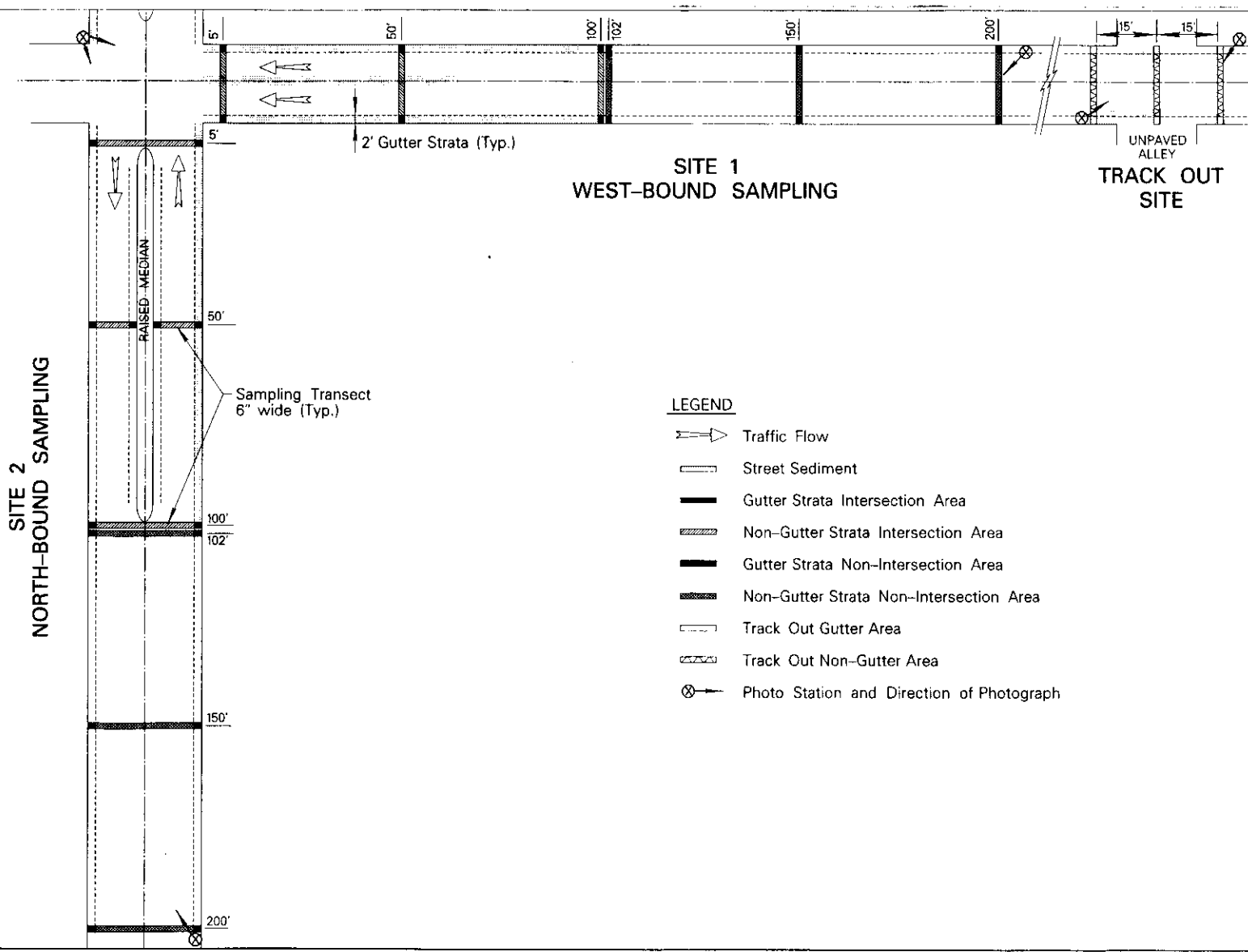











FIGURE 1

MOA DEPARTMENT OF PUBLIC WORKS  
STREET SEDIMENT LOADING ASSESSMENT  
(DOCUMENT WMP APR97001)

## SAMPLING SITE LOCATIONS



**LEGEND**

-  Traffic Flow
-  Street Sediment
-  Gutter Strata Intersection Area
-  Non-Gutter Strata Intersection Area
-  Gutter Strata Non-Intersection Area
-  Non-Gutter Strata Non-Intersection Area
-  Track Out Gutter Area
-  Track Out Non-Gutter Area
-  Photo Station and Direction of Photograph

JOB No. 1601044  
 TMS 13-FEB-99T 10:17  
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**FIGURE 2**  
 MOA DEPARTMENT OF PUBLIC WORKS  
 STREET SEDIMENT LOADING ASSESSMENT  
 DOCUMENT WMP AP#7001  
**SAMPLING SITE DIAGRAM**



Photo 1 - 36th and Old Seward, 3/21/96.  
 Note sediment concentrated in gutter, median, and between lanes.



Photo 2 - 16th and Columbine, 4/23/96.  
 Note unswept area due to parked cars.



Photo 3 - 9th Ave., 4/18/96.  
 Note sampling transect visible in street sweeping residue.

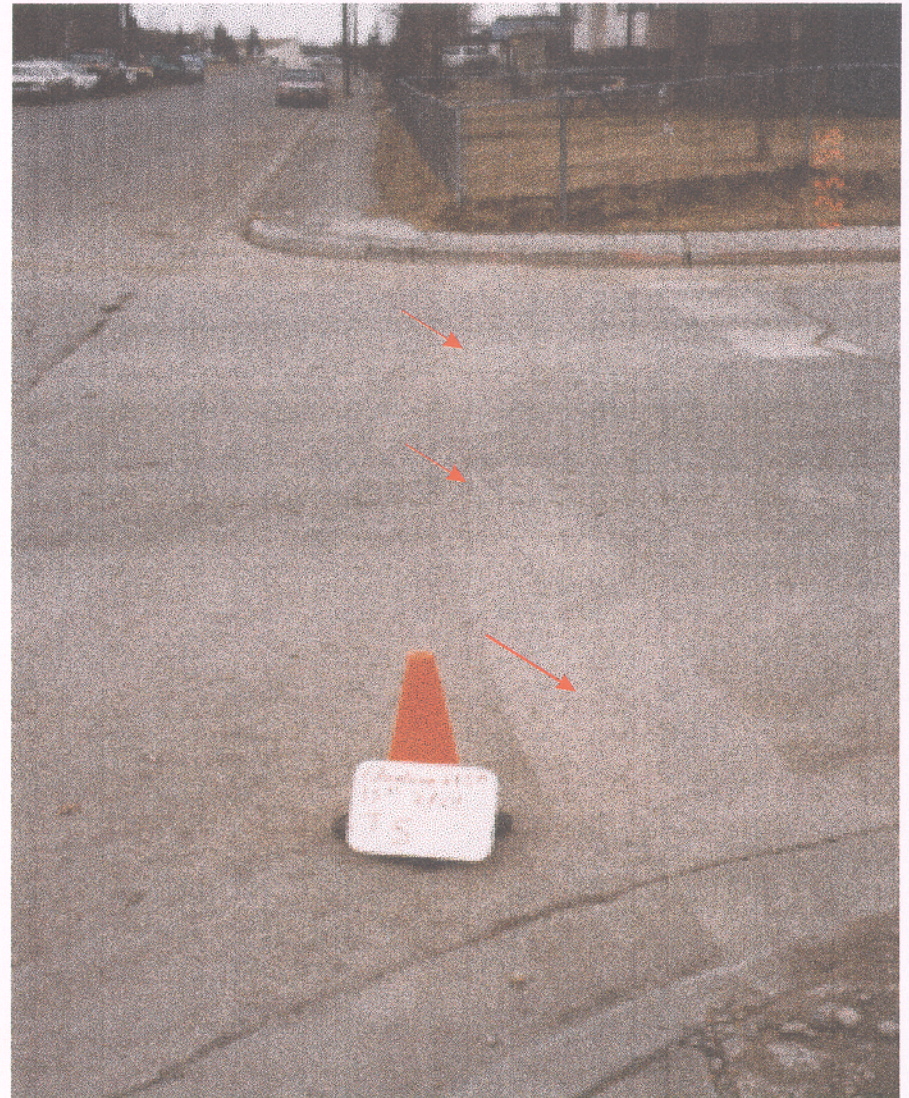
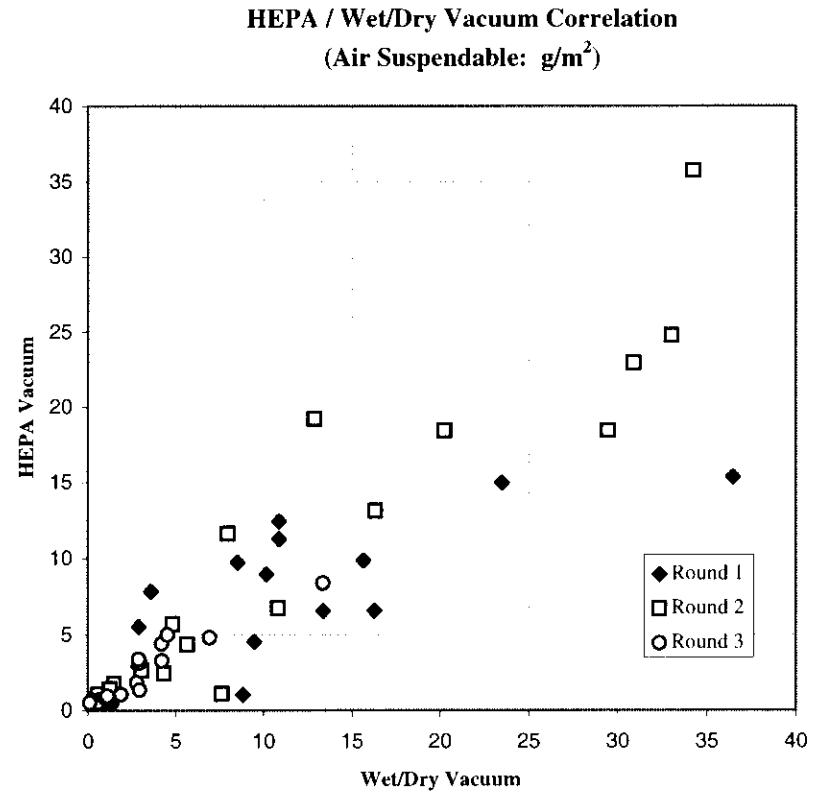
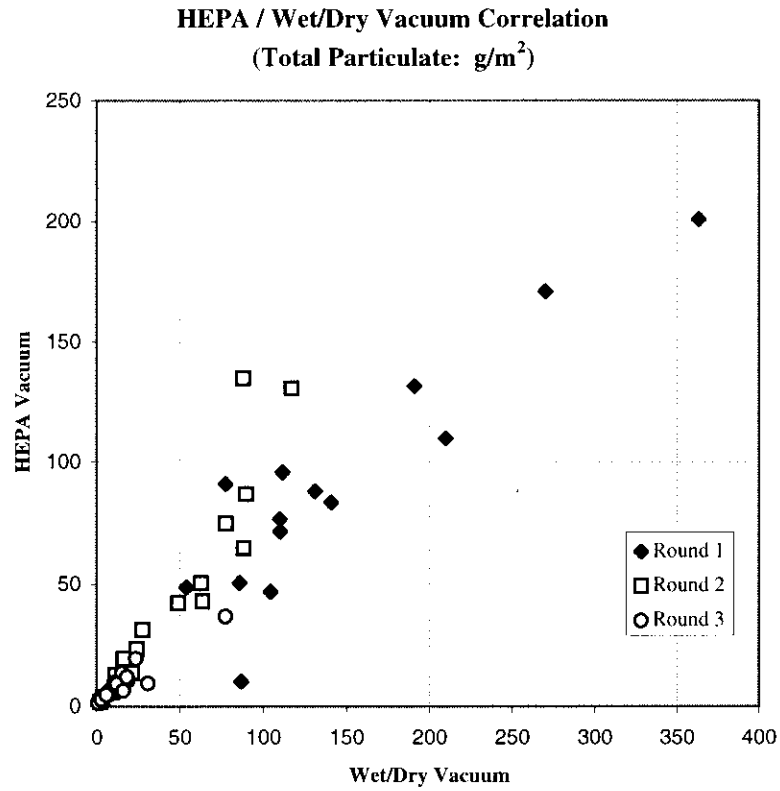


Photo 4 - Columbine and 15th, 4/25/96.  
 Note sampling transect visible due to fine layer of wind blown dust.

**Figure 4: Correlation Analysis Between Results from Wet/Dry Vacuum and HEPA Vacuum**



**Table 1: Sampling Site Locations and Dates**

Sampling Site Location	Road Type	Sample Collection Dates (1996)			Comments
		Round 1	Round 2	Round 3	
12th east of N Street	Local	3/26	4/26	7/8	
13th east of Karluck	Local	4/5	4/24	7/9	08/08/1996 Trackout sampling.
15th east of Columbine	Local	<b>4/10</b>	<b>4/25</b>	<b>8/6</b>	08/06/1996 Trackout sampling.
16th east of Columbine	Local	4/2	<b>4/23</b>	8/6	08/06/1996 Trackout sampling.
21st and Blueberry	Local		5/22	8/12	Not sampled during round 1.
Columbine north of 16th	Local	4/2	<b>4/23</b>	8/6	
Columbine south of 15th	Local	<b>4/10</b>	<b>4/25</b>	<b>8/6</b>	
Iowa north of Spenard	Local			7/24	Only gutters sampled.
N st. south of 12th	Local	3/26	4/26	7/8	
20th west of Lake Otis	Collector			8/7	Only gutters sampled.
9th east of Karluck	Collector	4/5	4/18	8/8	
Denali south of Northern Lights	Collector			7/26	Only gutters sampled.
E street north of 15th	Collector	3/27	4/25	8/7	
Karluck north of 13th	Collector	4/5	4/24	7/9	
Karluck north of 9th	Collector	4/5	4/18	8/8	08/08/1996 Trackout sampling.
King north of Dimond	Collector		<b>4/25</b>	7/16	Not sampled during round 1.
Reeve north of 5th	Collector	<b>3/27</b>	4/19	7/17	
15th east of E Street	Minor Arterial	3/27	4/25	8/7	
36th east of Old Seward	Minor Arterial		4/24		Sampled by mistake.
36th west of New Seward	Minor Arterial		4/16	7/16	Assume site swept three times.
36th west of Old Seward	Minor Arterial	<b>3/21</b>	<b>4/24</b>	<b>7/17</b>	Round 2 HEPA sampling on 04/25/96.
Old Seward south of 36th	Minor Arterial	<b>3/21</b>	<b>4/24</b>	<b>7/17</b>	Round 2 HEPA sampling on 04/25/96.
Old Seward south of Dowling	Minor Arterial	<b>4/16</b>	<b>5/30</b>	<b>7/17</b>	
Spenard east of Iowa	Minor Arterial			7/24	Only gutters sampled.
5th east of Reeve	Major Arterial	<b>3/27</b>	4/19	7/17	
6th west of A	Major Arterial			7/24	Only gutters sampled.
A street south of 6th	Major Arterial			<b>7/26</b>	Only gutters sampled. 07/26/96 Trackout sampling.
Debarr west of Muldoon	Major Arterial			7/24	Only gutters sampled.
Dimond west of King	Major Arterial	3/22	<b>4/19</b>	7/16	
Lake Otis north of 20th	Major Arterial			8/7	Only gutters sampled.
Muldoon south of Debarr	Major Arterial			7/24	Only gutters sampled.
New Seward north of 36th	Major Arterial	3/20	4/16	7/16	
Northern Lights east of Denali	Major Arterial			7/26	Only gutters sampled.
Northern Lights east of Spenard	Major Arterial	<b>3/22</b>		<b>7/26</b>	Not sampled during round 2.

Note: Bolded dates indicate HEPA sampling in the trafficking areas coincidental with wet/dry sample collection.

**Table 2: Correlation Analysis Between Results from Wet/Dry Vacuum and HEPA Vacuum**

Values are g/m<sup>2</sup>

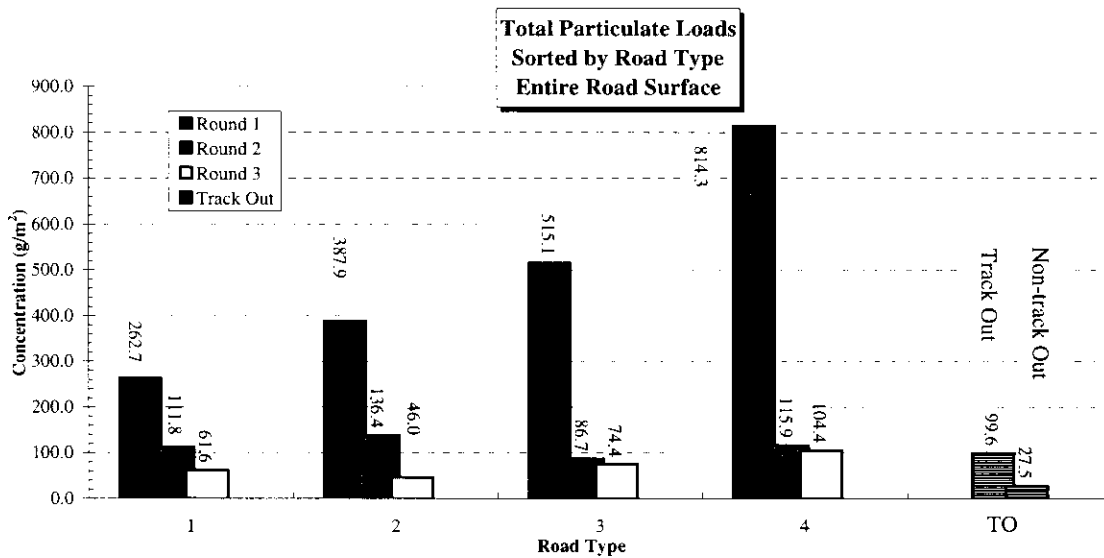
Round 1				Round 2				Round 3			
Total		Air Suspendable		Total		Air Suspendable		Total		Air Suspendable	
Wet/Dry Vac	HEPA	Wet/Dry Vac	HEPA	Wet/Dry Vac	HEPA	Wet/Dry Vac	HEPA	Wet/Dry Vac	HEPA	Wet/Dry Vac	HEPA
6.7	6.7	0.9	0.5	2.2	1.9	0.5	0.5	0.8	1.4	0.1	0.5
15.3	7.4	1.4	0.4	3.6	3.6	0.6	1.0	2.2	1.3	0.3	0.7
53.8	48.9	2.9	2.9	9.6	5.8	1.2	1.4	2.9	2.7	0.6	0.5
77.3	91.1	2.9	5.5	11.5	12.8	1.5	1.7	3.7	3.0	0.7	0.7
85.8	50.6	3.6	7.8	16.3	19.6	3.1	2.6	5.9	4.7	1.0	0.8
86.8	10.2	8.5	9.7	17.8	11.9	4.3	2.4	7.6	4.9	1.1	0.9
104.4	47.0	8.8	1.0	18.0	14.0	4.8	5.7	10.5	9.7	1.9	1.0
109.9	76.6	9.5	4.5	21.4	13.8	5.7	4.4	12.1	9.3	2.8	1.8
110.2	71.6	10.2	8.9	24.0	23.6	7.6	1.1	14.5	11.1	2.9	3.4
111.4	95.8	10.9	12.4	27.6	31.6	8.0	11.6	15.4	13.6	3.0	1.3
131.1	88.0	10.9	11.2	49.0	42.3	10.8	6.7	16.1	6.3	3.0	3.1
140.7	83.4	13.4	6.5	62.6	50.4	12.9	19.2	18.2	12.1	4.2	4.4
190.9	131.5	15.7	9.8	63.5	43.0	16.3	13.1	18.6	10.5	4.2	3.3
209.9	109.9	16.3	6.6	77.5	74.8	20.2	18.4	23.5	19.6	4.5	5.0
270.1	171.0	23.5	15.0	87.8	134.8	29.5	18.4	30.8	9.5	6.9	4.8
363.2	200.9	36.5	15.3	88.2	64.9	30.9	22.9	77.3	36.9	13.4	8.4
				89.6	86.8	33.0	24.8				
				117.0	130.7	34.2	35.7				
Slope	0.558	Slope	0.396	Slope	1.069	Slope	0.811	Slope	0.449	Slope	0.637
Y-Int	8.490	Y-Int	3.048	Y-Int	-4.190	Y-Int	0.504	Y-Int	2.495	Y-Int	0.532
r <sup>2</sup>	0.870	r <sup>2</sup>	0.571	r <sup>2</sup>	0.875	r <sup>2</sup>	0.870	r <sup>2</sup>	0.875	r <sup>2</sup>	0.890
Correl. Coeff.	0.933	Correl. Coeff.	0.756	Correl. Coeff.	0.936	Correl. Coeff.	0.933	Correl. Coeff.	0.935	Correl. Coeff.	0.943

All Rounds		
	Total	Air Suspendable
Slope	0.608	0.691
Y-Int	6.378	0.778
r <sup>2</sup>	0.850	0.792
Correl. Coeff.	0.922	0.890

**Table 3: Total Sediment Unit Loads Summary (Median Values)**

Values are in g/m<sup>2</sup>

Road Type	Sampling Round			TO	All Roads
	1	2	3		
1	262.7 (7)	111.8 (8)	61.6 (8)		115.9 (23)
2	387.9 (5)	136.4 (6)	46.0 (6)		175.7 (17)
3	515.1 (4)	86.7 (6)	74.4 (5)		136.5 (15)
4	814.3 (4)	115.9 (3)	104.4 (5)		162.3 (12)
Track Out				99.6 (5)	99.6 (5)
Non Track Out				27.5 (5)	27.5 (5)
All Rounds	431.1 (20)	109.5 (23)	65.2 (24)		136.5 (67)



**Summary Table (All Street Areas and Street Surfaces)**

Sampling Round	Inter-section	Non-Inters.	TO	All Roads
1	418.7 (20)	310.9 (18)		431.1 (20)
2	106.7 (23)	131.5 (23)		109.5 (23)
3	65.2 (23)	68.6 (23)		65.2 (24)
Track Out			99.6 (5)	99.6 (5)
Non Track Out			27.5 (5)	27.5 (5)
All Rounds	128.3 (66)	132.6 (64)		136.5 (67)

Note:

Road Types:

- 1 Local
- 2 Collector
- 3 Minor Arterial
- 4 Major Arterial
- TO Track Out / Non-track Out

Numbers in parentheses are the number of data points used to calculate the median values

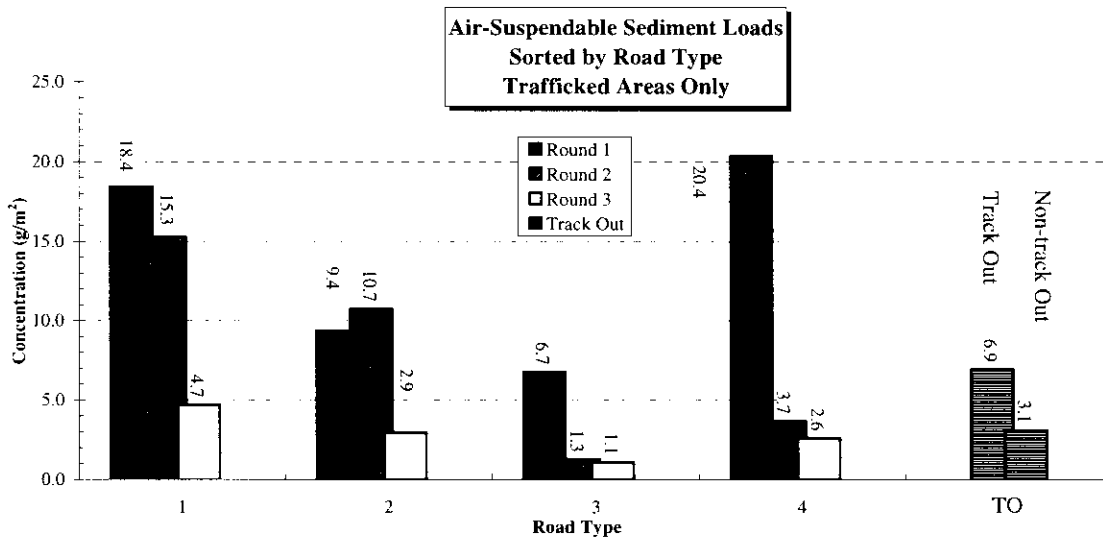
Track out and non-track out data are not included in the median values summarizing all road types and rounds.

**Table 4: Air Suspensible Sediment (<74µm) Unit Loads Summary (Median Values)**

Values are in g/m<sup>2</sup>

**Summary Table (Trafficked Areas Only)**

Road Type	Sampling Round			TO	All Roads
	1	2	3		
1	18.4 (7)	15.3 (8)	4.7 (8)		10.5 (23)
2	9.4 (5)	10.7 (6)	2.9 (6)		6.9 (17)
3	6.7 (4)	1.3 (6)	1.1 (5)		1.5 (15)
4	20.4 (4)	3.7 (3)	2.6 (5)		4.7 (12)
Track Out				6.9 (5)	6.9 (5)
Non Track Out				3.1 (5)	3.1 (5)
All Rounds	10.1 (20)	7.0 (23)	3.4 (24)		5.7 (67)



**Summary Table (Trafficked Areas Only)**

Sampling Round	Inter-section	Non-Inters.	TO	All Roads
1	13.8 (20)	4.7 (18)		10.1 (20)
2	7.6 (23)	7.3 (23)		7.0 (23)
3	2.8 (23)	3.0 (23)		3.4 (24)
Track Out			6.9 (5)	6.9 (5)
Non Track Out			3.1 (5)	3.1 (5)
All Rounds	7.3 (66)	4.4 (64)		5.7 (67)

Note:

Road Types:

- 1 Local
- 2 Collector
- 3 Minor Arterial
- 4 Major Arterial
- TO Track Out / Non-track out

Numbers in parentheses are the number of data points used to calculate the median values

Track out and non-track out data are not included in the median values summarizing all road types and rounds.



**Table 5: Summary of Sediment Unit Loads by Particle Size Classification, All Particle Sizes**

(Wet/Dry Vacuum Samples)

(grams per square meter)

Lower Quartile / Median / Upper Quartile (Number of Data Points)

Road Type	Round	All Areas Gutter Only	All Areas Traffic Surface	All Areas Gutters and Traffic Surface	Intersection Traffic Surface	Intersection Gutters and Traffic Surface	Non Intersection Traffic Surface	Non Intersection Gutters and Traffic Surface
1	1	883.9 1161.3 1630.9 (7)	140.7 190.2 211.0 (7)	252.6 262.7 470.7 (7)	169.6 253.9 316.7 (7)	261.5 314.4 544.1 (7)	98.0 137.0 150.8 (7)	220.4 256.4 355.6 (7)
1	2	252.2 528.9 596.7 (8)	39.1 57.4 71.6 (8)	84.5 111.8 159.2 (8)	38.0 54.1 83.5 (8)	70.3 113.1 151.3 (8)	38.3 58.0 61.2 (8)	78.7 120.7 177.6 (8)
1	3	288.1 365.3 442.2 (9)	19.3 26.7 37.8 (8)	54.8 61.6 74.6 (8)	12.9 21.1 32.3 (8)	30.7 40.8 78.8 (8)	18.2 29.6 38.1 (8)	56.6 68.6 79.9 (8)
2	1	1699.8 1932.1 2141.7 (5)	133.2 164.3 255.1 (5)	231.4 387.9 435.5 (5)	209.9 250.2 366.5 (5)	296.3 483.5 544.6 (5)	53.8 75.0 115.1 (5)	179.4 288.9 322.4 (5)
2	2	360.8 967.3 1870.1 (6)	24.7 67.5 98.7 (6)	48.9 136.4 308.8 (6)	23.0 44.5 87.8 (6)	50.5 142.4 214.7 (6)	26.5 43.0 117.0 (6)	48.9 126.6 418.5 (6)
2	3	199.3 616.8 1395.0 (8)	4.1 17.7 29.9 (6)	26.4 46.0 126.4 (6)	3.9 14.5 26.8 (6)	16.6 53.6 87.3 (6)	4.4 13.9 29.2 (6)	11.7 44.2 146.0 (6)
3	1	2583.8 2823.2 7713.1 (4)	47.6 65.9 106.4 (4)	361.5 515.1 758.4 (4)	68.1 94.4 121.2 (4)	262.4 336.8 741.9 (4)	22.5 29.7 58.3 (3)	452.7 647.7 1977.8 (4)
3	2	563.3 941.2 1431.4 (6)	6.8 8.4 18.5 (6)	66.9 86.7 136.8 (6)	9.6 11.7 17.4 (6)	62.7 64.4 128.3 (6)	2.2 5.3 10.4 (6)	70.7 106.1 145.4 (6)
3	3	205.4 662.4 1654.0 (6)	2.4 4.5 23.1 (5)	39.9 74.4 136.5 (5)	2.2 5.9 16.1 (5)	34.5 74.3 162.1 (5)	2.6 2.9 3.8 (5)	46.1 74.5 87.7 (5)
4	1	3315.9 4680.8 8066.7 (4)	94.7 303.6 722.9 (4)	333.0 814.3 1242.4 (4)	147.6 322.9 722.9 (4)	376.5 826.7 1242.4 (4)	6.7 58.3 109.9 (2)	176.3 305.2 434.1 (2)
4	2	1114.5 1181.0 1256.5 (3)	30.1 42.2 144.1 (3)	112.7 115.9 248.2 (3)	30.3 42.5 202.0 (3)	99.7 109.4 340.8 (3)	29.8 41.8 93.5 (3)	127.2 131.5 170.3 (3)
4	3	266.2 409.5 779.3 (10)	14.5 14.5 15.7 (5)	68.5 104.4 120.0 (5)	10.4 14.1 41.0 (4)	80.5 87.8 276.5 (5)	9.8 16.2 38.9 (4)	58.4 103.8 131.3 (5)
Area		Traffic Surface		Gutters and Traffic Surface				
Non Trackout		10.4 12.3 14.5 (5)		25.5 27.5 31.2 (5)				
Trackout		18.6 21.1 57.9 (5)		90.2 99.6 166.2 (5)				

Notes: "All Areas" group includes trackout and non trackout area data  
 Road Type 1: Local                      Road Type 3: Minor Arterial  
 Road Type 2: Collector                Road Type 4: Major Arterial / Freeway

**Table 6: Summary of Sediment Unit Loads by Particle Size Classification, Air Suspendable Particles (<0.074 mm)**

(Wet/Dry Vacuum Samples)

(grams per square meter)

Lower Quartile / Median / Upper Quartile (Number of Data Points)

Road Type	Round	All Areas Gutter Only	All Areas Traffic Surface	All Areas Gutters and Traffic Surface	Intersection Traffic Surface	Intersection Gutters and Traffic Surface	Non Intersection Traffic Surface	Non Intersection Gutters and Traffic Surface
1	1	105.7 150.1 239.8 (7)	10.7 18.4 24.3 (7)	27.0 37.1 57.8 (7)	12.7 18.7 30.0 (7)	25.4 40.4 66.6 (7)	8.8 13.4 21.1 (7)	27.0 37.2 48.8 (7)
1	2	108.9 144.7 199.7 (8)	8.8 15.3 26.1 (8)	27.7 31.3 56.8 (8)	7.7 14.7 28.3 (8)	23.0 32.1 54.0 (8)	9.7 15.8 24.2 (8)	27.7 35.6 59.5 (8)
1	3	74.9 84.8 105.8 (9)	3.5 4.7 8.8 (8)	13.2 14.9 18.5 (8)	2.8 3.4 9.4 (8)	7.2 11.1 15.9 (8)	4.2 4.9 6.1 (8)	13.1 17.2 23.7 (8)
2	1	125.0 196.3 202.2 (5)	8.1 9.4 17.3 (5)	23.1 29.3 31.6 (5)	11.9 15.7 24.9 (5)	21.6 25.4 35.5 (5)	2.9 4.0 9.0 (5)	24.9 27.7 37.4 (5)
2	2	95.9 177.9 265.3 (6)	6.0 10.7 14.1 (6)	13.6 26.9 40.2 (6)	7.0 8.8 14.4 (6)	16.3 28.0 34.8 (6)	4.1 8.9 12.9 (6)	10.9 24.1 50.0 (6)
2	3	41.7 128.2 207.0 (8)	1.4 2.9 4.9 (6)	3.4 9.1 20.6 (6)	1.4 2.8 5.9 (6)	4.0 8.3 14.4 (6)	0.9 2.3 6.2 (6)	2.2 10.8 30.5 (6)
3	1	378.3 412.7 936.8 (4)	2.7 6.7 9.8 (4)	47.0 71.0 95.1 (4)	4.6 9.7 10.9 (4)	34.0 47.8 88.9 (4)	0.9 1.4 5.1 (3)	58.0 78.9 270.0 (4)
3	2	97.1 128.9 197.2 (6)	0.9 1.3 3.2 (6)	11.2 14.3 18.3 (6)	1.2 1.5 3.7 (6)	8.8 12.3 15.6 (6)	0.5 0.8 1.5 (6)	10.4 17.4 22.7 (6)
3	3	37.1 107.5 205.4 (6)	0.5 1.1 2.4 (5)	6.6 12.5 20.8 (5)	0.6 1.1 1.9 (5)	5.8 11.6 19.2 (5)	0.8 1.0 1.0 (5)	7.5 13.4 13.6 (5)
4	1	407.5 473.0 917.0 (4)	5.3 20.4 49.1 (4)	29.0 62.6 119.0 (4)	9.8 21.9 49.1 (4)	23.7 61.7 119.0 (4)	0.9 2.3 3.6 (2)	29.1 32.0 34.9 (2)
4	2	182.9 195.3 259.3 (3)	3.6 3.7 30.3 (3)	15.9 18.7 60.2 (3)	3.2 3.3 36.0 (3)	13.7 15.3 74.8 (3)	4.1 4.3 25.5 (3)	18.5 22.6 47.4 (3)
4	3	63.5 72.6 132.0 (10)	1.9 2.6 5.7 (5)	6.3 19.2 30.3 (5)	1.2 2.1 7.0 (4)	9.1 11.0 72.5 (5)	1.2 2.4 8.3 (4)	6.3 28.4 39.1 (5)
Area		Traffic Surface		Gutters and Traffic Surface				
Non Trackout		3.0 3.1 4.5 (5)		7.4 7.9 9.2 (5)				
Trackout		4.0 6.9 12.4 (5)		22.5 26.3 36.5 (5)				

Notes: "All Areas" group includes trackout and non trackout area data  
 Road Type 1: Local                      Road Type 3: Minor Arterial  
 Road Type 2: Collector                Road Type 4: Major Arterial / Freeway

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**Table 7: Summary of Sediment Unit Loads by Particle Size Classification, OGS Treatable Particles (> 0.10 mm)**

(Wet/Dry Vacuum Samples)

(grams per square meter)

Lower Quartile / Median / Upper Quartile (Number of Data Points)

Road Type	Round	All Areas Gutter Only	All Areas Traffic Surface	All Areas Gutters and Traffic Surface	Intersection Traffic Surface	Intersection Gutters and Traffic Surface	Non Intersection Traffic Surface	Non Intersection Gutters and Traffic Surface	
1	1	774.6 940.9 1253.0 (7)	124.2 171.4 194.4 (7)	212.3 244.0 383.0 (7)	155.7 246.4 286.3 (7)	231.1 296.7 462.0 (7)	83.5 121.4 133.4 (7)	191.9 214.4 300.4 (7)	
1	2	138.2 324.4 389.4 (8)	25.2 36.8 46.5 (8)	50.7 77.9 92.5 (8)	28.4 32.0 52.2 (8)	48.6 68.1 95.8 (8)	24.2 34.8 41.8 (8)	44.8 80.5 107.8 (8)	
1	3	183.1 279.1 345.2 (9)	13.1 21.8 29.2 (8)	37.1 42.2 59.7 (8)	9.5 14.0 24.4 (8)	21.1 27.8 60.1 (8)	13.1 20.6 31.3 (8)	35.3 41.6 63.7 (8)	
2	1	1540.8 1714.8 1907.2 (5)	121.8 154.5 234.4 (5)	206.5 352.7 397.8 (5)	191.0 235.6 337.6 (5)	267.2 456.4 502.5 (5)	50.3 70.2 104.8 (5)	153.1 245.3 289.2 (5)	
2	2	244.7 729.8 1523.3 (6)	17.3 48.1 79.7 (6)	32.2 101.8 256.1 (6)	14.6 29.6 76.5 (6)	30.6 105.5 168.1 (6)	20.1 32.2 100.5 (6)	34.9 95.6 317.8 (6)	
2	3	149.2 449.2 1096.7 (8)	3.2 13.5 21.3 (6)	18.0 36.8 89.0 (6)	2.9 11.3 18.9 (6)	11.7 42.5 68.1 (6)	3.5 11.2 21.4 (6)	9.2 31.5 105.1 (6)	
3	1	2168.0 2352.8 6604.2 (4)	44.2 57.8 94.0 (4)	308.6 433.3 646.7 (4)	62.5 82.3 107.2 (4)	224.8 283.3 625.7 (4)	21.3 29.1 52.4 (3)	386.3 559.5 1670.7 (4)	
3	2	362.4 732.7 1272.9 (6)	5.5 6.9 12.5 (6)	45.5 67.7 107.9 (6)	7.8 9.9 13.0 (6)	44.8 50.5 102.2 (6)	1.9 4.1 9.3 (6)	46.3 83.2 121.7 (6)	
3	3	170.1 522.3 1200.4 (6)	1.8 3.3 20.3 (5)	31.4 58.3 102.6 (5)	1.9 4.6 13.9 (5)	27.0 59.0 134.7 (5)	1.6 1.9 2.7 (5)	36.4 57.6 70.4 (5)	
4	1	2807.7 4099.5 7012.8 (4)	87.6 277.6 660.1 (4)	296.6 734.3 1099.5 (4)	134.8 295.0 660.1 (4)	346.2 748.0 1099.5 (4)	5.6 55.0 104.3 (2)	141.9 265.4 388.8 (2)	
4	2	792.5 908.2 997.5 (3)	25.4 37.1 109.7 (3)	90.6 97.1 181.1 (3)	26.2 37.9 159.9 (3)	81.0 92.3 253.2 (3)	24.5 36.2 65.7 (3)	101.2 102.3 117.2 (3)	
4	3	181.8 254.3 672.5 (10)	7.7 12.1 12.6 (5)	59.2 82.1 83.8 (5)	8.9 11.6 31.3 (4)	64.4 74.7 179.3 (5)	8.3 13.3 29.5 (4)	51.3 56.0 102.0 (5)	
Area		Traffic Surface	Gutters and Traffic Surface						
Non Trackout		7.8 8.8 10.9 (5)	12.0 16.7 21.0 (5)						
Trackout		10.2 16.6 43.8 (5)	59.9 73.6 122.3 (5)						

Notes: "All Areas" group includes trackout and non trackout area data  
 Road Type 1: Local                      Road Type 3: Minor Arterial  
 Road Type 2: Collector                Road Type 4: Major Arterial / Freeway

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**Table 8: Summary of Sediment Unit Loads by Particle Size Classification, Non-OGS Treatable Particles (< 0.10mm)**

(Wet/Dry Vacuum Samples)

(grams per square meter)

Lower Quartile / Median / Upper Quartile (Number of Data Points)

Road Type	Round	All Areas Gutter Only	All Areas Traffic Surface	All Areas Gutters and Traffic Surface	Intersection Traffic Surface	Intersection Gutters and Traffic Surface	Non Intersection Traffic Surface	Non Intersection Gutters and Traffic Surface
1	1	114.0 162.1 248.7 (7)	12.2 18.8 26.6 (7)	30.0 40.5 61.2 (7)	13.8 20.9 31.1 (7)	28.1 43.7 70.9 (7)	9.7 15.6 23.5 (7)	30.3 42.0 51.1 (7)
1	2	124.1 174.1 237.8 (8)	10.1 18.1 30.4 (8)	32.5 37.4 66.7 (8)	9.2 17.8 33.6 (8)	27.9 38.2 63.4 (8)	11.0 18.3 27.7 (8)	32.7 41.3 68.4 (8)
1	3	97.0 104.7 158.4 (9)	4.3 5.7 10.0 (8)	16.2 18.1 21.3 (8)	3.4 4.2 10.8 (8)	8.7 13.9 18.7 (8)	5.1 5.8 7.3 (8)	16.2 21.0 27.3 (8)
2	1	158.9 217.4 234.6 (5)	9.8 11.3 20.7 (5)	24.9 35.2 37.7 (5)	14.6 18.9 28.9 (5)	27.1 29.1 42.1 (5)	3.5 4.8 10.3 (5)	26.3 33.2 43.6 (5)
2	2	116.1 237.6 346.8 (6)	7.5 13.8 19.0 (6)	16.7 34.6 52.8 (6)	8.4 11.7 17.8 (6)	19.9 36.9 46.6 (6)	5.6 11.2 16.4 (6)	14.1 31.0 62.7 (6)
2	3	50.1 167.6 298.3 (8)	1.4 3.7 6.1 (6)	4.0 11.4 29.2 (6)	1.6 3.3 7.9 (6)	4.9 11.2 19.1 (6)	0.9 2.7 7.7 (6)	2.5 12.6 40.9 (6)
3	1	415.9 470.4 1109.0 (4)	3.5 8.3 12.4 (4)	52.9 81.8 111.7 (4)	5.6 12.0 14.0 (4)	37.6 53.6 116.2 (4)	1.2 1.7 6.4 (3)	66.3 88.1 307.1 (4)
3	2	137.7 179.7 279.2 (6)	1.3 1.5 4.6 (6)	15.9 19.1 24.4 (6)	1.7 1.9 4.4 (6)	11.2 17.3 22.2 (6)	0.6 0.9 1.7 (6)	14.8 23.1 28.5 (6)
3	3	44.3 140.1 299.0 (6)	0.6 1.2 2.8 (5)	8.5 16.1 29.6 (5)	0.7 1.3 2.1 (5)	7.5 15.4 27.4 (5)	1.0 1.0 1.1 (5)	9.6 16.9 17.3 (5)
4	1	508.2 581.3 1053.9 (4)	7.1 26.0 62.8 (4)	36.3 80.0 142.9 (4)	12.8 27.9 62.8 (4)	30.3 78.8 142.9 (4)	1.1 3.3 5.6 (2)	34.4 39.8 45.3 (2)
4	2	259.0 272.7 321.9 (3)	4.7 5.1 34.4 (3)	22.1 25.4 70.3 (3)	4.1 4.6 42.1 (3)	18.6 20.1 89.1 (3)	5.3 5.6 27.8 (3)	26.0 31.3 54.2 (3)
4	3	84.5 98.2 196.5 (10)	2.4 3.1 6.8 (5)	9.2 22.4 36.2 (5)	1.6 2.6 9.7 (4)	13.1 16.2 97.1 (5)	1.4 2.9 9.6 (4)	8.0 29.3 47.8 (5)
Area		Traffic Surface	Gutters and Traffic Surface					
Non Trackout		3.5 3.5 5.4 (5)	8.3 10.2 10.8 (5)					
Trackout		4.5 8.3 14.1 (5)	26.0 30.2 42.3 (5)					

Notes: "All Areas" group includes trackout and non trackout area data  
 Road Type 1: Local                      Road Type 3: Minor Arterial  
 Road Type 2: Collector                Road Type 4: Major Arterial / Freeway

Document Number WMP APr97001

12 February 1997

**Table 9: Summary of Sediment Unit Loads by Particle Size Classification,  
All Particle Sizes**

(HEPA Samples)

(grams per square meter)

Lower Quartile / Median / Upper Quartile (Number of Data Points)

Road Type	Round	All Areas Traffic Surface	Intersection Traffic Surface	Non Intersection Traffic Surface
1	1	120.8 123.0 125.2 (2)	170.6 185.4 200.2 (2)	50.1 60.6 71.1 (2)
1	2	35.6 51.0 65.5 (4)	30.8 58.4 80.4 (4)	36.6 46.1 57.3 (4)
1	3	9.7 13.4 17.0 (2)	8.4 10.3 12.3 (2)	11.1 14.6 18.2 (2)
2	1	79.8 79.8 79.8 (1)	109.8 109.8 109.8 (1)	48.7 48.7 48.7 (1)
2	2	133.1 133.1 133.1 (1)	134.6 134.6 134.6 (1)	130.4 130.4 130.4 (1)
3	1	35.4 45.8 65.7 (3)	89.3 90.9 93.2 (3)	8.7 10.0 46.5 (3)
3	2	5.0 5.7 13.8 (3)	9.2 12.6 15.0 (3)	2.7 3.5 16.3 (3)
3	3	2.3 3.5 5.5 (3)	2.7 4.5 5.2 (3)	1.8 2.5 5.7 (3)
4	1	27.0 66.0 105.1 (2)	46.8 89.0 131.2 (2)	6.5 41.5 76.5 (2)
4	2	12.9 12.9 12.9 (1)	13.8 13.8 13.8 (1)	11.8 11.8 11.8 (1)
4	3	3.5 5.7 8.0 (2)	4.4 4.4 4.4 (1)	2.5 2.5 2.5 (1)

Area	Traffic Surface
Non Trackout	7.5 8.9 10.2 (2)
Trackout	8.4 21.8 35.1 (2)

Notes: "All Areas" group includes trackout and non trackout area data  
 Road Type 1: Local                      Road Type 3: Minor Arterial  
 Road Type 2: Collector                Road Type 4: Major Arterial / Freeway

Document Number WMP APr97001

12 February 1997

**Table 10: Summary of Sediment Unit Loads by Particle Size Classification,  
Air Suspendable Particles (<0.074 mm)**

(HEPA Samples)

(grams per square meter)

Lower Quartile / Median / Upper Quartile (Number of Data Points)

Road Type	Round	All Areas Traffic Surface	Intersection Traffic Surface	Non Intersection Traffic Surface
1	1	10.3 10.3 10.3 (2)	14.5 14.6 14.6 (2)	6.0 6.1 6.1 (2)
1	2	9.8 17.6 25.0 (4)	11.6 18.0 26.6 (4)	8.4 17.7 23.4 (4)
1	3	1.6 2.4 3.2 (2)	0.9 1.5 2.1 (2)	2.3 2.7 3.0 (2)
2	1	6.4 6.4 6.4 (1)	9.8 9.8 9.8 (1)	2.8 2.8 2.8 (1)
2	2	14.1 14.1 14.1 (1)	11.4 11.4 11.4 (1)	18.9 18.9 18.9 (1)
3	1	3.7 4.7 6.6 (3)	10.3 11.1 11.6 (3)	0.6 0.9 3.0 (3)
3	2	1.0 1.1 4.3 (3)	1.4 1.6 3.1 (3)	0.7 1.0 6.6 (3)
3	3	0.4 0.6 0.7 (3)	0.5 0.7 0.7 (3)	0.4 0.6 0.7 (3)
4	1	2.4 5.3 8.2 (2)	4.4 6.5 8.7 (2)	0.3 4.0 7.7 (2)
4	2	2.4 2.4 2.4 (1)	2.5 2.5 2.5 (1)	2.3 2.3 2.3 (1)
4	3	0.2 1.5 2.8 (2)	0.2 0.2 0.2 (1)	0.2 0.2 0.2 (1)

Area	Traffic Surface
Non Trackout	2.2 2.5 2.8 (2)
Trackout	2.7 4.6 6.6 (2)

Notes: "All Areas" group includes trackout and non trackout area data  
 Road Type 1: Local                      Road Type 3: Minor Arterial  
 Road Type 2: Collector                Road Type 4: Major Arterial / Freeway

Document Number WMP APr97001

12 February 1997

**ROADSITE.DBF**

**Field Summary, Legend, and Hardcopy Printout**

The following Table describes the fields included in the ROADSITE.DBF database.

<b>ROADSITE.DBF Field Summary and Legend</b>			
Field Name	Data Type	Size	Field Description
SITE_NAME	Character	43	Sampling site location name.
SITE_ID	Character	5	Site name abbreviation. Primary key for relation to SEDDATA.DBF and AQDATA.DBF databases.
ROAD_TYPE	Numeric	1	Numerical identifier for road type (1-4). 1=local, 2=collector, 3=minor arterial, 4=major arterial/freeway
TYPE_NAME	Character	25	Road type description. Local, collector, minor arterial, major arterial/freeway.
ROUND_1	Date	8	Date of first sampling round (MMDDYY).
ROUND_2	Date	8	Date of second sampling round (MMDDYY).
ROUND_3	Date	8	Date of third sampling round (MMDDYY).
SWEEP_1	Date	8	Date of first street sweeping event (MMDDYY).
SWEEP_1Q	Character	1	Estimated date qualifier. E indicates the date is an estimate.
SWEEP_2	Date	8	Date of second street sweeping event (MMDDYY).
SWEEP_2Q	Character	1	Estimated date qualifier. E indicates the date is an estimate.
SWEEP_3	Date	8	Date of third street sweeping event (MMDDYY).
SWEEP_3Q	Character	1	Estimated date qualifier. E indicates the date is an estimate.
NOTES	Character	60	Notes



Sampling Site Database (ROADSITE.DBF) - Street Sediment Loads Assessment Project

Site Name	Site ID	Type Name	Sampling Dates			Street Sweeping Dates			Notes			
			Round 1	Round 2	Round 3	Sweep 1	Sweep 2	Sweep 3				
15th east of Columbine	15A	local	04/10/96	04/25/96	08/06/96	04/18/96	05/02/96	07/01/96	E	Assume site swept three times.		
Columbine north of 16th	CO	local	04/02/96	04/23/96	08/06/96	04/18/96	05/02/96	07/01/96	E	Assume site swept three times.		
Columbine south of 15th	COL	local	04/10/96	04/25/96	08/06/96	04/18/96	05/02/96	07/01/96	E	Assume site swept three times.		
Iowa north of Spenard	IOW	local	/ /	/ /	07/24/96	04/01/96	E	04/21/96	07/01/96	E	Assume site swept three times. Only gutters sampled.	
N st. south of 12th	N ST	local	03/26/96	04/26/96	07/08/96	04/15/96	07/01/96	E	/ /		Assume site was swept twice.	
12th east of N Street	s12	local	03/26/96	04/26/96	07/08/96	04/15/96	07/01/96	E	/ /		Assume site was swept twice.	
13th east of Karluck	s13	local	04/05/96	04/24/96	07/09/96	04/16/96	05/02/96			07/02/96		
13th east of Karluck	s13	local	/ /	/ /	08/08/96	04/16/96	05/02/96			07/02/96	Track out sampling.	
16th east of Columbine	s16	local	04/02/96	04/23/96	08/06/96	04/18/96	05/02/96			07/01/96	E	Assume site swept three times.
21st and Blueberry	s21	local	/ /	05/22/96	08/12/96	04/18/96	06/01/96	E	07/01/96	E	OGS site. Assume site swept three time.	
Denali south of Northern Lights	DEN	collector	/ /	/ /	07/26/96	03/28/96	04/05/96			07/01/96	E	Assume site swept three times. Only gutters sampled.
E street north of 15th	E ST	collector	03/27/96	04/25/96	08/07/96	04/08/96	05/04/96			07/01/96	E	Assume site swept three times.
Karluck north of 13th	KA	collector	04/05/96	04/24/96	07/09/96	04/16/96	05/02/96			07/02/96		
Karluck north of 9th	KB	collector	04/05/96	04/18/96	08/08/96	04/16/96	05/02/96			07/02/96		
King north of Dimond	KING	collector	/ /	04/25/96	07/16/96	04/05/96	04/27/96			07/01/96	E	Assume site swept three times.
Reeve north of 5th	RV	collector	03/27/96	04/19/96	07/17/96	04/10/96	E	06/01/96	E	07/01/96	E	Assume site swept three times.
20th west of Lake Otis	s20	collector	/ /	/ /	08/07/96	05/01/96	E	06/01/96	E	07/01/96	E	Assume site swept three times. Only gutters sampled.
9th east of Karluck	s9	collector	04/05/96	04/18/96	08/08/96	04/16/96	05/02/96			07/02/96		
36th west of New Seward	36B	minor arterial	/ /	04/16/96	07/16/96	03/25/96	04/05/96			07/03/96		Assume site swept three times.
36th east of Old Seward	36E	minor arterial	/ /	04/24/96	/ /	03/25/96	04/05/96			07/03/96		Sampled by mistake. Assume site swept three times.
Old Seward south of 36th	OS	minor arterial	03/21/96	04/24/96	07/17/96	03/25/96	04/06/96			07/03/96		
Old Seward south of 36th	OS	minor arterial	/ /	04/25/96	/ /	03/25/96	04/06/96			07/03/96		HEPA sampling.
Old Seward south of Dowling	OSD	minor arterial	04/16/96	05/30/96	07/17/96	05/27/96	/ /			/ /		Site swept once.
Old Seward bus stop south of Dowling	OSDBS	minor arterial	04/16/96	/ /	/ /	05/27/96	/ /			/ /		Site swept once.
Spenard east of Iowa	SP	minor arterial	/ /	/ /	07/24/96	03/18/96	04/21/96			07/01/96	E	Assume site swept three times. Only gutters sampled.
15th east of E Street	s15	minor arterial	03/27/96	04/25/96	08/07/96	04/08/96	05/04/96			07/01/96	E	Assume site swept three times.
36th west of Old Seward	s36	minor arterial	03/21/96	04/24/96	07/17/96	03/25/96	04/05/96			07/03/96		
36th west of Old Seward	s36	minor arterial	/ /	04/25/96	/ /	03/25/96	04/05/96			07/03/96		HEPA sampling.
A street south of 6th	A	major arterial/freeway	/ /	/ /	07/26/96	03/18/96	E	04/04/96		07/01/96	E	Assume site swept three times. Only gutters sampled.
Debar west of Muldoon	DEB	major arterial/freeway	/ /	/ /	07/24/96	04/01/96	E	04/21/96		07/22/96		Only gutters sampled.
Dimond west of King	DM	major arterial/freeway	03/22/96	04/19/96	07/16/96	03/27/96	04/27/96			07/10/96		
Lake Otis north of 20th	LKOT	major arterial/freeway	/ /	/ /	08/07/96	03/11/96	06/01/96	E	07/01/96	E		Assume site swept three times. Only gutters sampled.
Muldoon south of Debar	MUL	major arterial/freeway	/ /	/ /	07/24/96	04/01/96	E	04/21/96		07/22/96		Only gutters sampled.
Northern Lights east of Spenard	N LTS	major arterial/freeway	03/22/96	/ /	07/26/96	03/23/96	07/01/96	E	/ /			OGS site. Assume site swept twice.
Northern Lights east of Denali	NLTB	major arterial/freeway	/ /	/ /	07/26/96	03/22/96	05/01/96	E	07/01/96	E		Assume site swept three times. Only gutters sampled.
New Seward north of 36th	NS	major arterial/freeway	03/20/96	04/16/96	07/16/96	03/21/96	03/29/96	E	04/06/96			
5th east of Reeve	s5	major arterial/freeway	03/27/96	04/19/96	07/17/96	04/10/96	E	06/01/96	E	07/12/96		Assume site swept three times.
6th west of A	s6	major arterial/freeway	/ /	/ /	07/24/96	03/18/96	E	04/10/96		07/01/96	E	Assume site swept three times. Only gutters sampled.

Key:  
E - Estimated date

**SEDDATA.DBF and AQDATA.DBF**  
**Field Summary, Legend, and Hardcopy Printout**

The following tables describe the fields included in the SEDDATA.DBF and AQDATA.DBF databases.

### SEDDATA.DBF and AQDATA.DBF Field Summary and Legend

Field Name	Unit	Data Type	Size	Field Description
ROUND		Numeric	20	Sampling round number (1 - 3)
SITE_ID		Character	5	The site from which the sample was taken. See site ID legend.
SAMPCODE		Character	5	The sample collection method (W/D: Wet/Dry Vacuum ; HEPA: HEPA Vacuum)
ANALCODE		Character	9	The analysis method used for determining the particle size distribution
TO		Logical	1	Whether the sample was taken to assess trackout area loadings
STRATA		Character	5	The strata or portion of the street from which the sample was taken. See strata legend
SAMPDATE		Date	1	Date the sample was collected
TRANSWIDTH	m	Numeric	20	Width of the sampled transect
TRANSENG	m	Numeric	20	Length of the sampled transect
TRANSAREA	m <sup>2</sup>	Numeric	20	Street surface area that was sampled
TOTDRYWT	g	Numeric	20	The total dry weight of the sample
S38_1MM	%	Numeric	20	Percent passing the 38.1mm sieve
S19_0MM	%	Numeric	20	Percent passing the 19.0mm sieve
S9_5MM	%	Numeric	20	Percent passing the 9.5mm sieve
S4_76MM	%	Numeric	20	Percent passing the 4.76mm sieve
S2_00MM	%	Numeric	20	Percent passing the 2.00mm sieve
S0_84MM	%	Numeric	20	Percent passing the 0.84mm sieve
S0_42MM	%	Numeric	20	Percent passing the 0.42mm sieve
S0_149MM	%	Numeric	20	Percent passing the 0.149mm sieve
S0_105MM	%	Numeric	20	Percent passing the 0.105mm sieve
S0_074MM	%	Numeric	20	Percent passing the 0.074mm sieve
PCTRETAIN	%	Numeric	20	Amount retained in vacuum bag expressed as a percent of the total dry weight of the sample
BAGWT	g	Numeric	20	Tare weight of vacuum bag plus the weight of material retained in the bag
BAGTARE	g	Numeric	20	Tare weight of vacuum bag
RETAINED	g	Numeric	20	Weight of material retained in vacuum bag
OGS	g/m <sup>2</sup>	Numeric	20	OGS treatable loading
AIRSUSP	g/m <sup>2</sup>	Numeric	20	Loading for particles of 10 microns or less
TOTLOAD	g/m <sup>2</sup>	Numeric	20	Total particulate loading
NOTES		Character	25	Notes

### Site ID Legend

Site ID	Site Description	Road Type
15A	15th east of Columbine	1
36B	36th west of New Seward	3
36E	36th east of Old Seward	3
A	A street south of 6 <sup>th</sup>	4
CO	Columbine north of 16 <sup>th</sup>	1
COL	Columbine south of 15 <sup>th</sup>	1
DEB	Debarr west of Muldoon	4
DEN	Denali south of Northern Lights	2
DM	Dimond west of King	4
E ST	E street north of 15 <sup>th</sup>	2
IOW	Iowa north of Spenard	1
KA	Karluck north of 13 <sup>th</sup>	2
KB	Karluck north of 9 <sup>th</sup>	2
KING	King north of Dimond	2
LKOT	Lake Otis north of 20 <sup>th</sup>	4
MUL	Muldoon south of Debarr	4
N LTS	Northern Lights east of Spenard	4
N ST	N st. south of 12 <sup>th</sup>	1
NLTB	Northern Lights east of Denali	4
NS	New Seward north of 36 <sup>th</sup>	4
OS	Old Seward south of 36 <sup>th</sup>	3
OSD	Old Seward south of Dowling	3
OSDBS	Old Seward bus stop south of Dowling	3
RV	Reeve north of 5 <sup>th</sup>	2
SP	Spenard east of Iowa	3
s12	12th east of N Street	1
s13	13th east of Karluck	1
s15	15th east of E Street	3
s16	16th east of Columbine	1
s20	20th west of Lake Otis	2
s21	21st and Blueberry	1
s36	36th west of Old Seward	3
s5	5th east of Reeve	4
s6	6th west of A	4
s9	9th east of Karluck	2



















Street Sediment Sample Database (SEDDATA.DBF)

Wet/Dry Vacuum Samples

Percent Passing Sieve (mm)

Loadings (g/m²)

February 13, 1997

round	site_id	sample	to	strata	sampdate	transwidth	transleng	transarea	totdrywt	analysis	38.1	19.0	9.5	4.76	2.00	0.84	0.42	0.149	0.105	0.074	bagwt	pctretain	bagtare	retained	ogs	airsusp	totload	notes
3	s16	W/D	F	ING	8/6/96	0.25	30.94	7.86	97.7	ASTM C136	100.0	100.0	100.0	98.2	88.7	68.2	49.1	24.1	16.7	12.8	77.30	10.7	66.85	10.45	10.36	2.92	14	
3	s16	W/D	F	NIG	8/6/96	0.25	3.66	0.93	223.6	ASTM C136	100.0	100.0	95.9	92.6	87.0	79.7	65.0	33.9	25.0	19.4	98.10	14.1	66.51	31.59	180.51	80.70	275	
3	s16	W/D	F	IG	8/6/96	0.25	3.66	0.93	205.5	ASTM C136	100.0	100.0	100.0	87.4	63.1	54.3	44.4	25.0	19.1	15.3	80.60	7.0	66.12	14.48	178.95	49.43	237	
3	s16	W/D	T	TOG	8/6/96	0.25	4.88	1.24	577.9	ASTM C136	100.0	100.0	100.0	95.4	88.4	78.7	67.5	41.6	33.7	28.6	92.80	4.5	66.81	25.99	309.39	154.45	488	
3	s16	W/D	T	TONG	8/6/96	0.25	28.04	7.12	136.3	ASTM C136	100.0	100.0	100.0	99.6	91.4	60.3	38.5	17.8	13.4	10.7	80.50	10.1	66.71	13.79	16.57	3.98	21	
3	s16	W/D	T	NTOG	8/6/96	0.25	4.88	1.24	127.2	ASTM C136	100.0	100.0	100.0	99.5	96.1	90.5	79.9	50.9	39.8	32.0	81.20	11.6	66.50	14.70	61.83	44.74	115	
3	s16	W/D	T	NTONG	8/6/96	0.25	28.04	7.12	76.5	ASTM C136	100.0	100.0	100.0	99.2	89.5	73.5	51.9	24.7	17.9	13.7	78.10	15.0	66.65	11.45	8.82	3.08	12	
3	s20	W/D	F	NTGO	8/7/96	0.25	3.66	0.93	200.1	ASTM C136	100.0	100.0	100.0	96.2	86.2	81.0	74.8	44.4	30.9	23.3	86.80	11.0	64.80	22.00	148.83	73.87	239	
3	s20	W/D	F	IGO	8/7/96	0.25	3.66	0.93	1000.4	ASTM C136	100.0	100.0	98.6	92.4	73.8	65.1	55.4	31.3	24.4	17.2	90.10	2.5	65.59	24.51	814.08	211.60	1103	
3	s21	W/D	F	NING	8/12/96	0.25	106.07	26.94	931.6	ASTM C136	100.0	100.0	99.2	96.3	88.0	65.2	44.3	18.5	12.8	10.1	93.60	3.0	65.34	28.26	30.15	4.54	36	
3	s21	W/D	F	ING	8/12/96	0.25	52.73	13.39	123.8	ASTM C136	100.0	100.0	100.0	96.8	79.8	59.3	40.4	16.2	11.2	8.4	75.20	8.0	65.35	9.85	8.21	1.51	10	
3	s21	W/D	F	NIG	8/12/96	0.25	13.41	3.41	1603.2	ASTM C136	100.0	100.0	94.4	88.4	80.1	66.9	52.5	26.7	19.0	15.5	122.30	3.5	65.43	56.87	381.18	89.64	487	
3	s21	W/D	F	IG	8/12/96	0.25	6.71	1.70	189.8	ASTM C136	100.0	100.0	93.0	89.6	84.4	77.0	68.9	44.8	32.8	32.0	82.80	8.8	66.05	16.75	74.90	45.50	121	
3	s36	W/D	F	NING	7/17/96	0.51	52.12	26.48	63.6	ASTM C136	100.0	100.0	100.0	100.0	89.0	67.0	48.3	27.5	22.3	19.3	78.90	21.4	65.31	13.59	1.87	0.98	3	
3	s36	W/D	F	ING	7/17/96	0.51	60.05	30.50	165.8	ASTM C136	100.0	100.0	100.0	98.3	88.2	69.3	48.0	21.5	15.6	12.0	79.70	8.8	65.13	14.57	4.59	1.13	6	
3	s36	W/D	F	NIG	7/17/96	0.25	7.32	1.86	1191.8	ASTM C136	100.0	100.0	100.0	96.7	86.8	72.5	54.8	25.3	17.5	12.6	101.80	3.1	65.00	36.80	529.17	100.62	661	
3	s36	W/D	F	IG	7/17/96	0.25	6.10	1.55	880.2	ASTM C136	100.0	100.0	100.0	97.4	92.2	83.2	67.7	29.1	17.7	12.1	109.40	5.1	64.77	44.63	467.75	97.59	597	
3	s5	W/D	F	NING	7/17/96	0.25	57.61	14.63	219.1	ASTM C136	100.0	100.0	100.0	99.8	62.7	53.4	37.3	15.6	10.4	8.1	79.60	5.8	66.90	12.70	13.42	2.08	16	
3	s5	W/D	F	ING	7/17/96	0.25	63.09	16.03	199.4	ASTM C136	100.0	100.0	99.6	98.8	93.9	78.2	55.4	19.1	12.0	7.9	78.50	6.5	65.62	12.88	10.95	1.79	13	
3	s5	W/D	F	NIG	7/17/96	0.25	3.66	0.93	143.1	ASTM C136	100.0	100.0	98.0	97.1	94.0	89.7	68.7	66.2	41.8	27.4	94.60	20.3	65.59	29.01	89.65	73.43	185	
3	s5	W/D	F	IG	7/17/96	0.25	3.66	0.93	170.6	ASTM C136	100.0	100.0	100.0	98.8	96.3	93.6	82.1	37.3	23.6	15.7	82.50	9.9	65.69	16.81	140.29	46.92	202	
3	s6	W/D	F	NIGO	7/24/96	0.25	3.66	0.93	94.7	ASTM C136	100.0	100.0	98.4	93.7	92.5	88.2	76.0	36.2	23.8	15.5	89.80	22.1	68.86	20.94	77.67	38.34	124	
3	s6	W/D	F	IGO	7/24/96	0.25	3.66	0.93	238.5	ASTM C136	100.0	100.0	98.0	93.8	88.7	82.0	70.4	34.5	23.0	15.3	88.20	8.3	68.50	19.70	197.67	60.48	278	
3	s9	W/D	F	NING	8/8/96	0.25	37.49	9.52	37.6	ASTM C136	100.0	100.0	100.0	98.1	93.6	81.1	53.5	17.8	12.5	9.0	70.80	10.8	66.75	4.05	3.45	0.78	4	
3	s9	W/D	F	ING	8/8/96	0.25	39.01	9.91	33.0	ASTM C136	100.0	100.0	100.0	99.4	94.2	79.7	54.8	21.2	13.9	10.3	71.90	16.5	66.45	5.45	2.87	0.89	4	
3	s9	W/D	F	NIG	8/8/96	0.25	3.66	0.93	36.9	ASTM C136	100.0	100.0	100.0	95.9	91.9	72.9	31.2	19.2	12.7	73.30	17.8	66.72	6.58	32.09	12.13	47		
3	s9	W/D	F	IG	8/8/96	0.25	3.66	0.93	62.9	ASTM C136	100.0	100.0	100.0	86.8	71.9	63.8	53.1	25.6	16.4	74.40	12.4	66.60	7.80	50.37	19.50	76		



Street Sediment Sample Database (AQDATA.DBF)

HEPA Samples										Percent Passing Sieve (mm)										Loadings (g/m <sup>2</sup> )			February 13, 1997					
round	site_id	sample	to	strata	sampdate	transwidth	transleng	transarea	totdrywt	analysis	38.1	19.0	9.5	4.76	2.00	0.84	0.42	0.149	0.105	0.074	bagwt	pctretain	bagtare	retained	ogs	airsusp	totload	notes
3	15A	HEPA	F	ING	8/6/96	0.25	19.51	4.95	61.0	ASTM C136	100.0	100.0	100.0	100.0	97.4	79.9	61.2	30.4	21.7	16.8	0.00	0.0	0.00	0.00	9.64	2.07	12	
3	15A	HEPA	F	NING	8/6/96	0.25	19.51	4.95	90.2	ASTM C136	100.0	100.0	100.0	99.2	96.1	74.5	54.5	28.0	20.9	16.6	0.00	0.0	0.00	0.00	14.40	3.02	18	
3	15A	HEPA	T	NTONG	8/6/96	0.25	29.26	7.43	76.1	ASTM C136	100.0	100.0	100.0	100.0	99.2	90.7	74.4	39.1	29.0	21.8	0.00	0.0	0.00	0.00	7.27	2.23	10	
3	15A	HEPA	T	TONG	8/6/96	0.25	14.63	3.72	130.6	ASTM C136	100.0	100.0	100.0	98.8	92.3	70.6	53.8	30.1	22.3	18.8	0.00	0.0	0.00	0.00	27.31	6.61	35	
3	A	HEPA	T	NTONG	7/26/96	0.25	12.50	3.17	23.8	ASTM C136	100.0	100.0	100.0	100.0	97.6	88.8	80.0	50.4	42.4	37.6	0.00	0.0	0.00	0.00	4.32	2.82	7	
3	A	HEPA	T	TONG	7/26/96	0.25	12.50	3.17	26.7	ASTM C136	100.0	100.0	100.0	100.0	91.1	78.5	64.4	46.7	40.0	31.9	0.00	0.0	0.00	0.00	5.05	2.68	8	
3	COL	HEPA	F	ING	8/6/96	0.25	29.26	7.43	62.3	ASTM C136	100.0	100.0	100.0	100.0	98.0	90.9	70.9	28.7	16.6	10.8	0.00	0.0	0.00	0.00	6.99	0.91	8	
3	COL	HEPA	F	NING	8/6/96	0.25	29.26	7.43	82.4	ASTM C136	100.0	100.0	100.0	98.6	96.7	91.4	77.5	36.8	26.9	20.8	0.00	0.0	0.00	0.00	8.10	2.31	11	
3	N LTS	HEPA	F	ING	7/26/96	0.25	41.73	10.60	46.8	ASTM C136	100.0	100.0	100.0	100.0	88.1	49.2	24.2	6.1	4.9	4.5	0.00	0.0	0.00	0.00	4.20	0.20	4	
3	N LTS	HEPA	F	NING	7/26/96	0.25	40.54	10.30	25.5	ASTM C136	100.0	100.0	100.0	100.0	88.3	52.5	33.3	12.5	10.0	7.5	0.00	0.0	0.00	0.00	2.23	0.19	2	
3	OS	HEPA	F	ING	7/17/96	0.51	51.51	26.17	26.9	ASTM C136	100.0	100.0	100.0	100.0	92.1	84.2	66.7	34.2	28.9	24.6	0.00	0.0	0.00	0.00	0.73	0.25	1	
3	OS	HEPA	F	NING	7/17/96	0.51	45.72	23.23	25.9	ASTM C136	100.0	100.0	100.0	98.0	54.1	41.4	24.2	23.6	21.0	20.4	0.00	0.0	0.00	0.00	0.88	0.23	1	
3	OSD	HEPA	F	ING	7/17/96	0.25	70.71	17.96	106.5	ASTM C136	100.0	100.0	100.0	89.0	74.0	59.6	42.0	17.4	13.2	11.0	0.00	0.0	0.00	0.00	5.15	0.65	6	
3	OSD	HEPA	F	NING	7/17/96	0.25	64.01	16.26	146.8	ASTM C136	100.0	100.0	100.0	97.2	85.5	62.1	40.5	17.4	13.2	10.1	0.00	0.0	0.00	0.00	7.84	0.91	9	
3	s36	HEPA	F	ING	7/17/96	0.51	60.05	30.50	136.0	ASTM C136	100.0	100.0	94.5	90.7	85.8	77.1	58.6	27.5	20.4	16.0	0.00	0.0	0.00	0.00	3.55	0.71	4	
3	s36	HEPA	F	NING	7/17/96	0.51	52.12	26.48	65.2	ASTM C136	100.0	100.0	100.0	100.0	97.9	79.2	56.9	32.4	26.6	22.6	0.00	0.0	0.00	0.00	1.81	0.56	2	

**STRATA.DBF (Look-up Table)**  
**Field Summary, Legend, and Hardcopy Printout**



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**Strata Legend**

Strata	Strata Description
IG	Intersection, gutter
IGO	Intersection, gutter only (when no corresponding non-gutter sample was taken)
ING	Intersection, non-gutter
NIG	Non-intersection, gutter
NIGO	Non-intersection, gutter only (when no corresponding non-gutter sample was taken)
NING	Non-intersection, non-gutter
NTOG	Non-trackout, gutter
NTONG	Non-trackout, non-gutter
TOG	Trackout, gutter
TONG	Trackout, non-gutter

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**STRATA.DBF Field Summary and Legend**

Field Name	Unit	Data Type	Size	Field Description
STRATA		Character	5	The strata code
DESC		Character	81	Description of the part of the street surface corresponding to the strata code

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## Appendix B

Site Survey Field Note Forms (organized by date)

Sampling Field Note Forms (organized by date)

Particle Size Distribution (Sieve Analysis) Plots (organized alphabetically by sampling round)

Chain-of-Custody Documentation (organized by date)

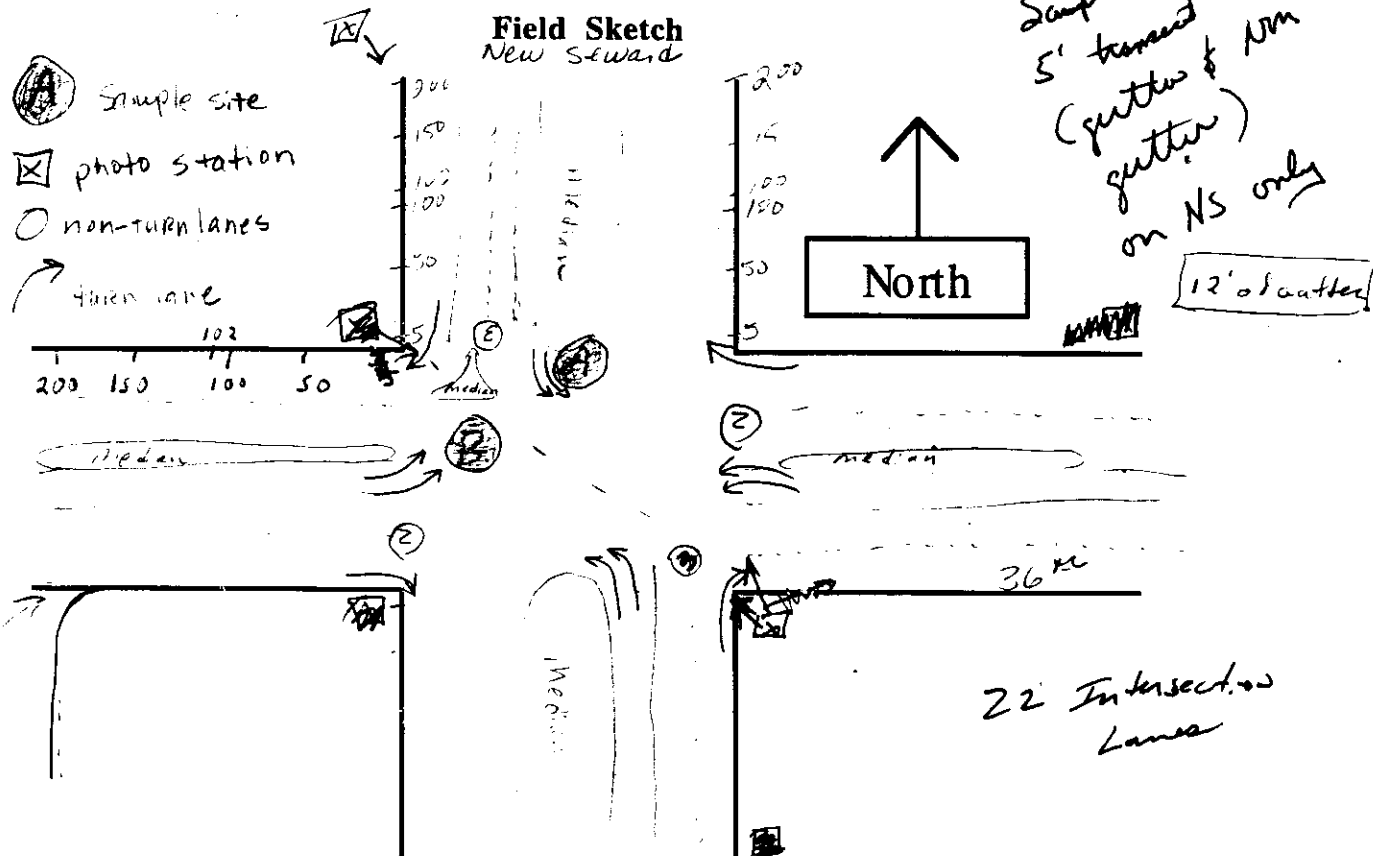
**Street Sediment Loads Assessment Project  
Site Survey Field Note Form**

3:30 AM

Date: 03/20/196 Weather: COLD, CLEAR, DARK ~26°F LIGHT WIND

Sampling Team: CB, Md, CW

Intersection: 36<sup>th</sup> AVE / NEW SEWARD



Note track out site, controlled lane configuration, traffic flow, photo stations, transects, medians, and permanent features.

**\* Transect Lengths** (transect locations are measured from the curbline of the crossing street)

Site	(feet) NS	Median	Site	(feet) 36 <sup>th</sup> Ave	Median	Trackout Site
125'	5	140 - 6 = 134	5	61'	70 - 5 = 65	0
81'	50	98 - 12 = 86	50	56'	65 - 5 = 60	+15
64'	100	50 - 12 = 68	100	52'	60 - 5 = 55	-15
64'	102	80 - 12 = 68	102	51'	59 - 5 = 54	
66'	150	82 - 12 = 70	150	55'	64 - 5 = 59	
68'	200	84 - 12 = 72	200	52'	60 (CURB ICE OVER) - 5 = 55	

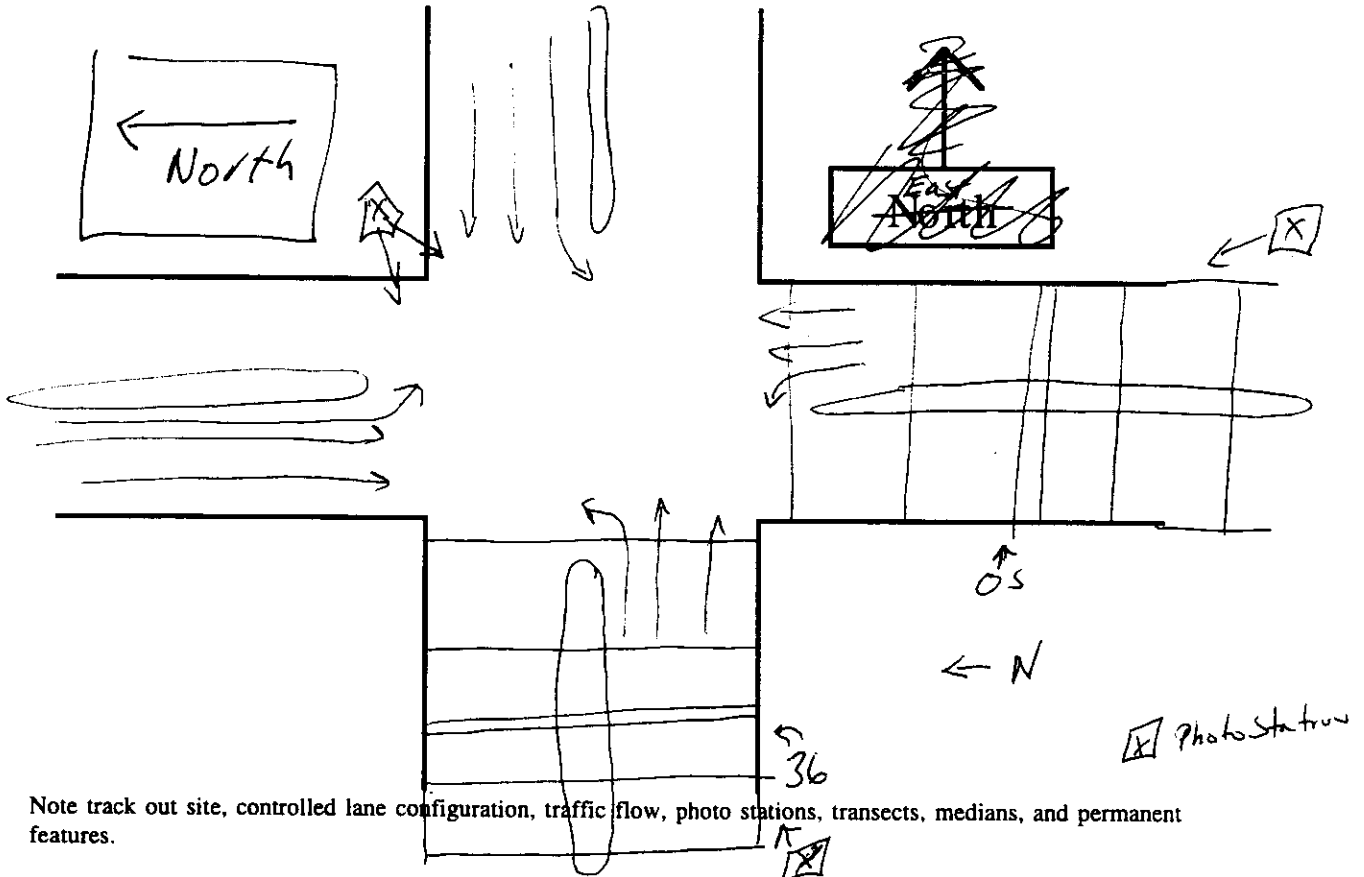
NI transect overlap with stop zone at 36<sup>th</sup> & old Seward

\* paced 53 paces = 50 feet = 0.94 ft/pace

**Street Sediment Loads Assessment Project  
Site Survey Field Note Form**

Date: 3/21/96 Weather Clear, dark (2:00 am) 15° Calm  
 Sampling Team: CD CW, BF  
 Intersection: 36th & OS

**Field Sketch**



Note track out site, controlled lane configuration, traffic flow, photo stations, transects, medians, and permanent features.

**Transect Lengths** (transect locations are measured from the curbline of the crossing street)

Site	36	Site	OS	Trackout Site
5	87'	5	73'	0
50	65'	50	58'	+15
100		100		-15
102		102		
150		150		
200		200		

No TOS  
CD

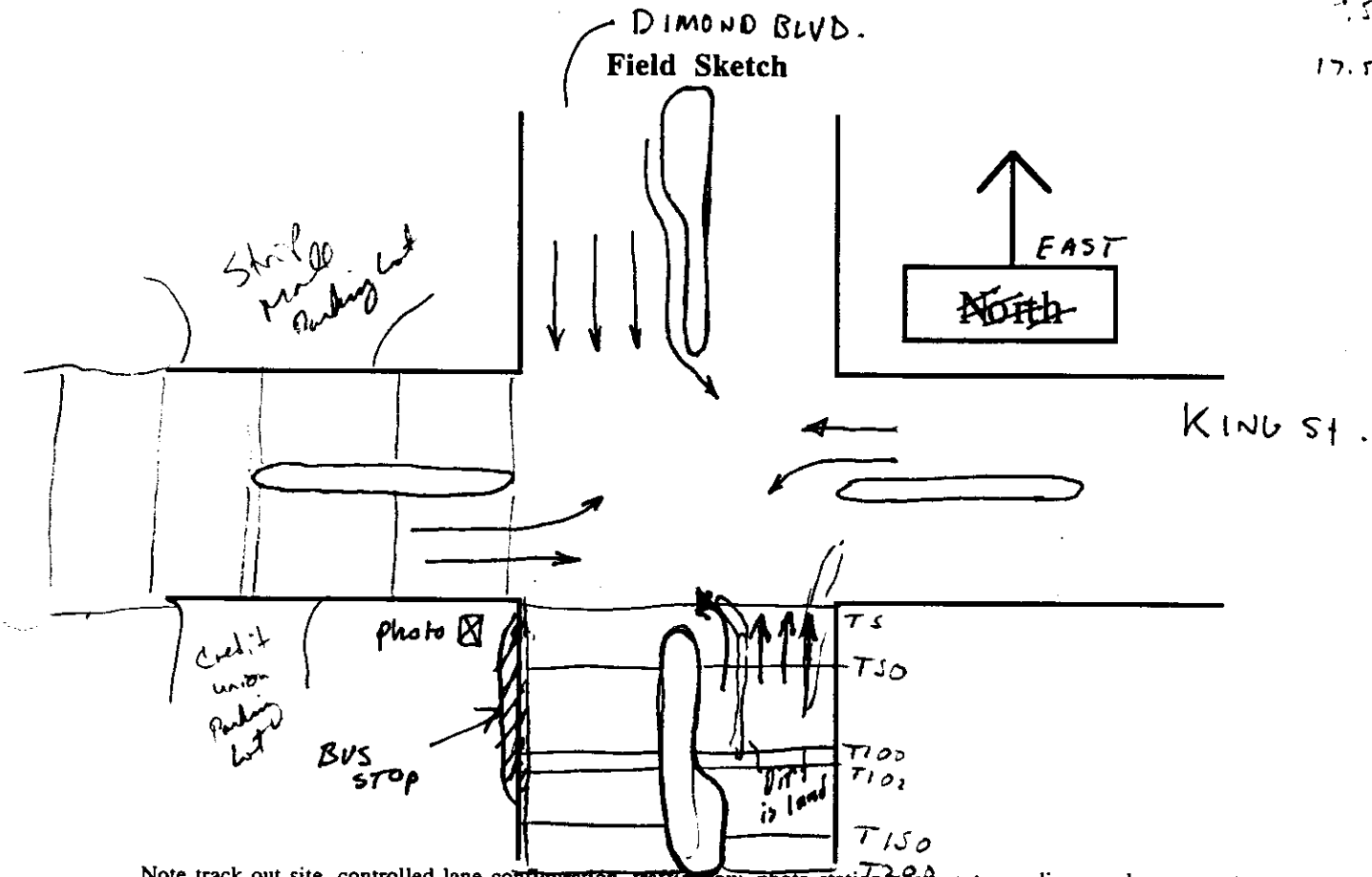
**Street Sediment Loads Assessment Project  
Site Survey Field Note Form**

Date: 3 / 22 / 98 Weather CLOUDY, 25° WITH WIND

Sampling Team: CHRIS BROWN / BRANT FARR

Intersection: DIMOND AND KING ST

17.5 paces  
17.5 paces



Note track out site, controlled lane configuration, traffic flow, photo stations, transects, medians, and permanent features.

☒ photo

**Transect Lengths** (transect locations are measured from the curbline of the crossing street)

Site	Dimond	Site	King	Trackout Site
5	106'	5	84' <sup>CR</sup> 14 paces	0
50	95'	50	49.4' 8.25 paces	+15
100	95'	100	49.4' 8.25 paces	-15
102	95'	102	49.4' 8.25 paces	
150	84'	150	54' 9 paces	
200	84'	200	54' 9 paces	

includes bus stop area →

Need to be verified @ 3/24/98

6' / pace

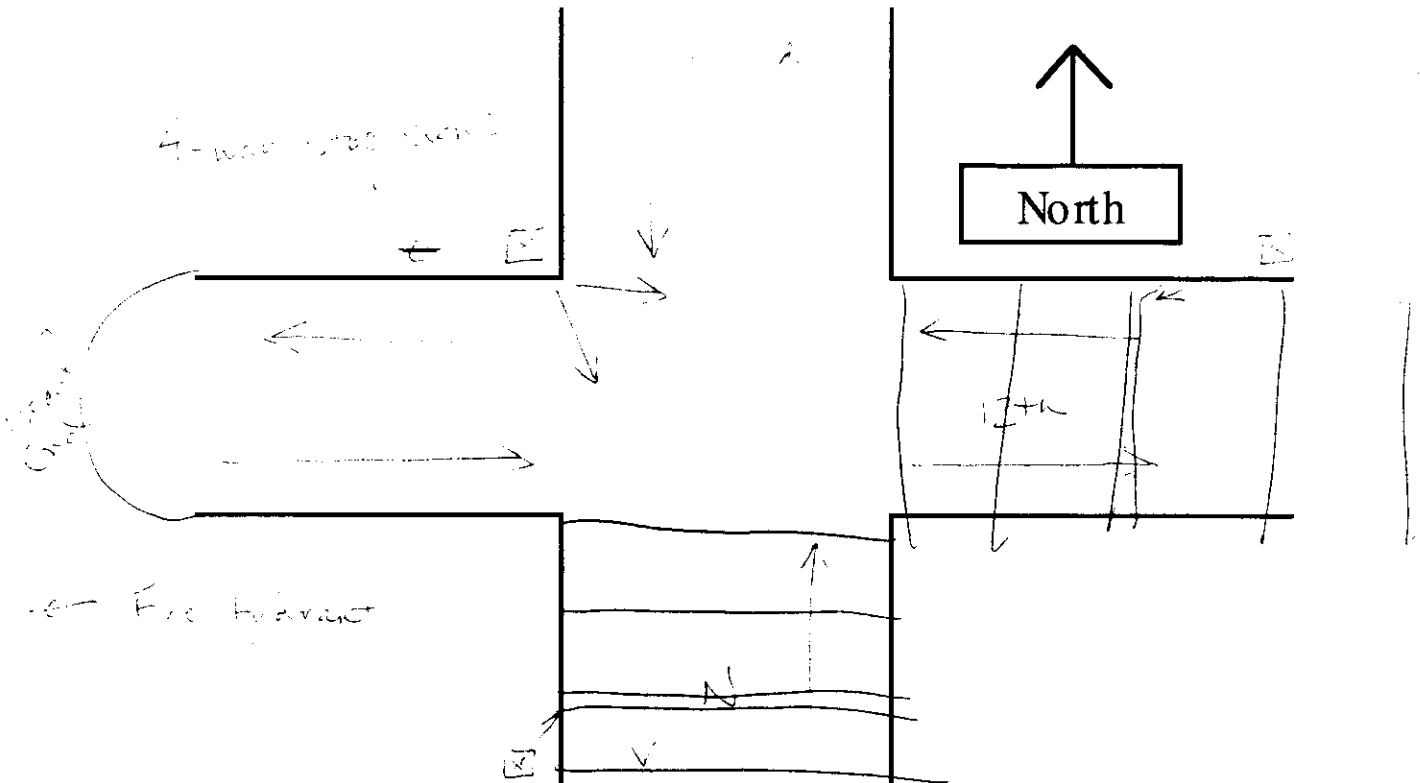
**Street Sediment Loads Assessment Project  
Site Survey Field Note Form**

Date: 3/26/96 Weather Cloudy Temp: 28°F

Sampling Team: CW/BF

Intersection: 12th St & N -  
West North

**Field Sketch**



Note track out site, controlled lane configuration, traffic flow, photo stations, transects, medians, and permanent features.

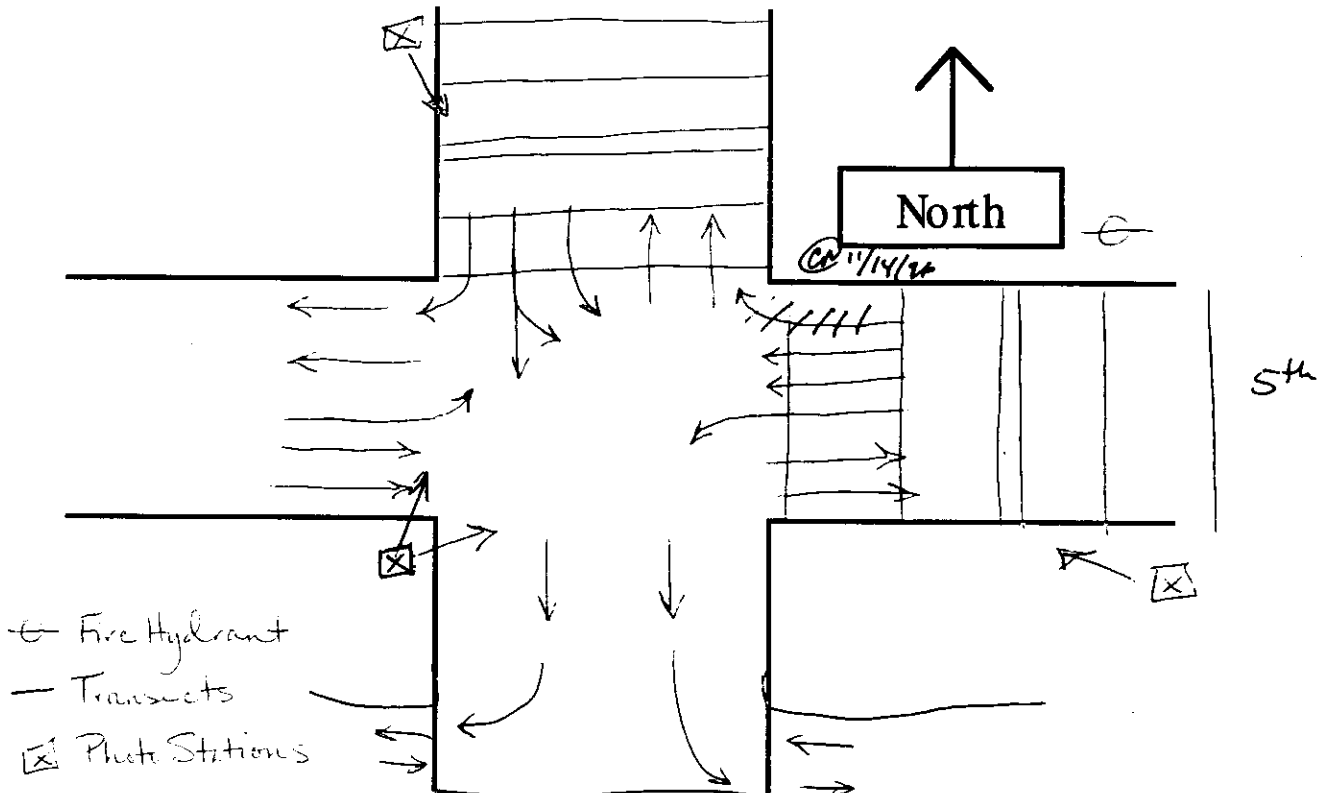
**Transect Lengths** (transect locations are measured from the curbline of the crossing street)

Site	<u>N - North</u>	Site	<u>12th St</u>	Trackout Site
5	<u>36</u>	5	<u>36</u>	<u>0</u>
50	<u>34</u>	50	<u>34</u>	<u>+15</u>
100	<u>34</u>	100	<u>34</u>	<u>-15</u>
102	<u>34</u>	102	<u>34</u>	
150	<u>34</u>	150	<u>34</u>	
200	<u>34</u>	200	<u>34</u>	

**Street Sediment Loads Assessment Project  
Site Survey Field Note Form**

Date: 3/27/96 <sup>3:00 am</sup> Weather 27°F ~~Partly Cloudy~~ → Clearing  
 Sampling Team: MW / BF  
 Intersection: 5th & Reeve

*Reeve*  
**Field Sketch**



⊗ Fire Hydrant  
 — Transects  
 ⊠ Photo Stations

Note track out site, controlled lane configuration, traffic flow, photo stations, transects, medians, and permanent features.

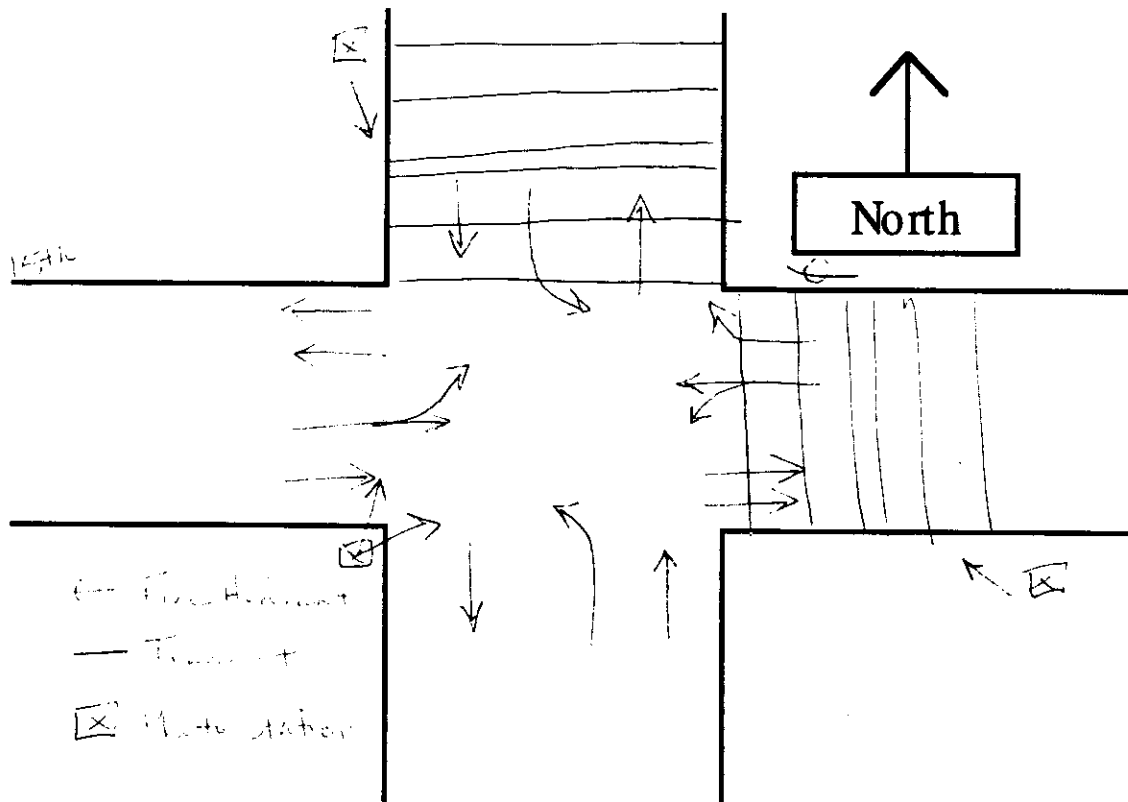
**Transect Lengths** (transect locations are measured from the curblines of the crossing street)

Site	<u>5th</u>		Site	<u>Reeve</u>		Trackout Site
5	<u>85</u>	<u>38 paces</u>	5	<u>69</u>	<u>30 paces</u>	<u>0</u>
50	<u>67</u>	<u>29 paces</u>	50	<u>63 ft</u>	<u>27 paces</u>	<u>+15</u>
100	<u>67</u>		100	<u>63</u>		<u>-15</u>
102	<u>67</u>		102	<u>63</u>		
150	<u>67</u>		150	<u>63</u>		
200	<u>67</u>		200	<u>63</u>		

**Street Sediment Loads Assessment Project  
Site Survey Field Note Form**

Date: 3/27/96 <sup>9:00 am</sup> Weather 35°F Sunny - slight wind  
 Sampling Team: AW 1 BF  
 Intersection: 15th St E

**Field Sketch**



Note track out site, controlled lane configuration, traffic flow, photo stations, transects, medians, and permanent features.

**Transect Lengths (transect locations are measured from the curbline of the crossing street)**

Site	<u>E</u>	Site	<u>15th</u>	Trackout Site
5	<u>42</u>	5	<u>50</u>	<u>0</u>
50	<u>34</u>	50	<u>36</u>	<u>+15</u>
100	<u>34</u>	100	<u>36</u>	<u>-15</u>
102	<u>34</u>	102	<u>36</u>	
150	<u>34</u>	150	<u>36</u>	
200	<u>34</u>	200	<u>36</u>	

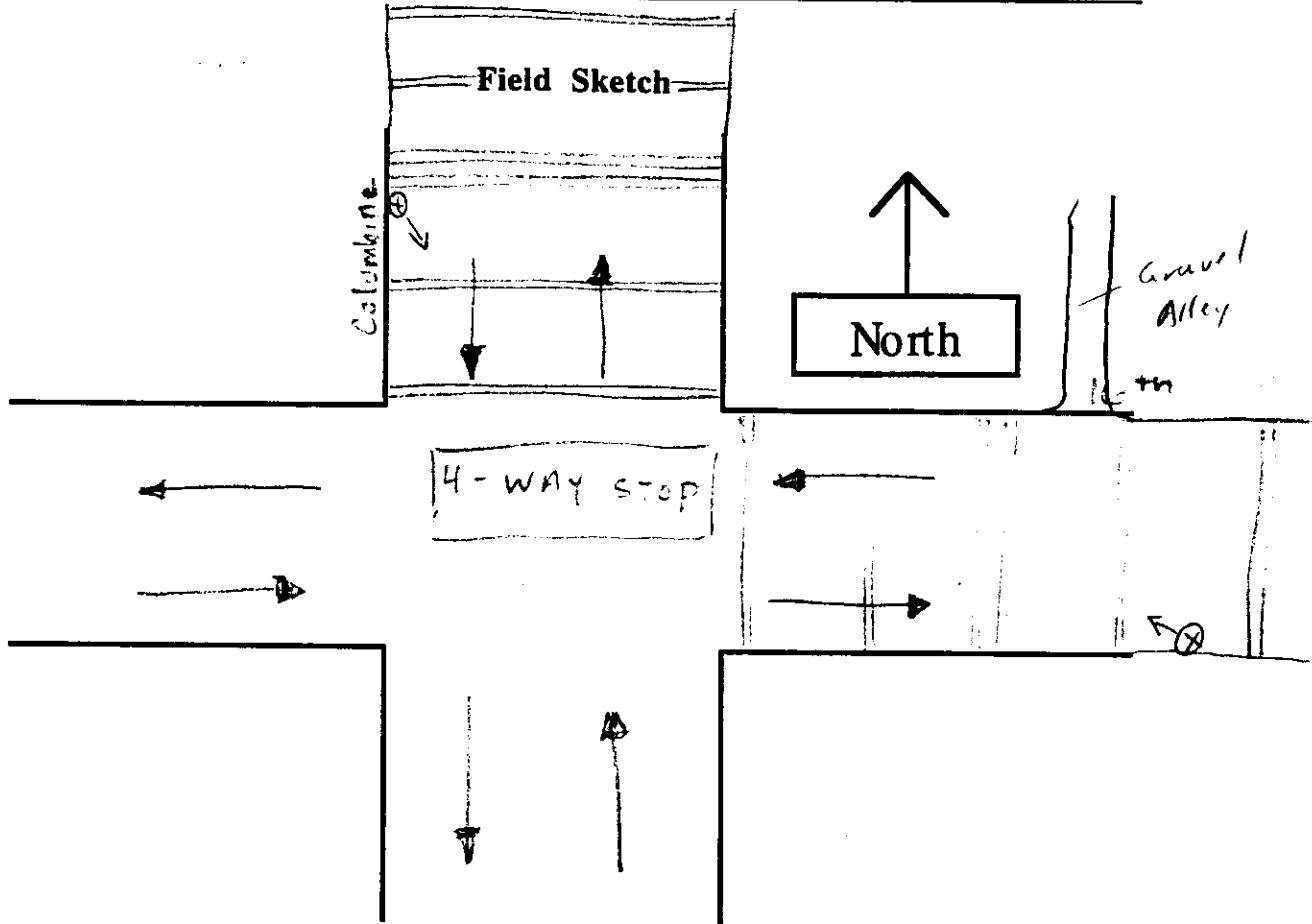


**Street Sediment Loads Assessment Project  
Site Survey Field Note Form**

Date: 4 / 2 / 96 Weather CLOUDY, 28°

Sampling Team: BILL SPENCER / BRENT FARR

Intersection: 16<sup>th</sup> AND Columbine



Note track out site, controlled lane configuration, traffic flow, photo stations, transects, medians, and permanent features.

**Transect Lengths** (transect locations are measured from the curblines of the crossing street)

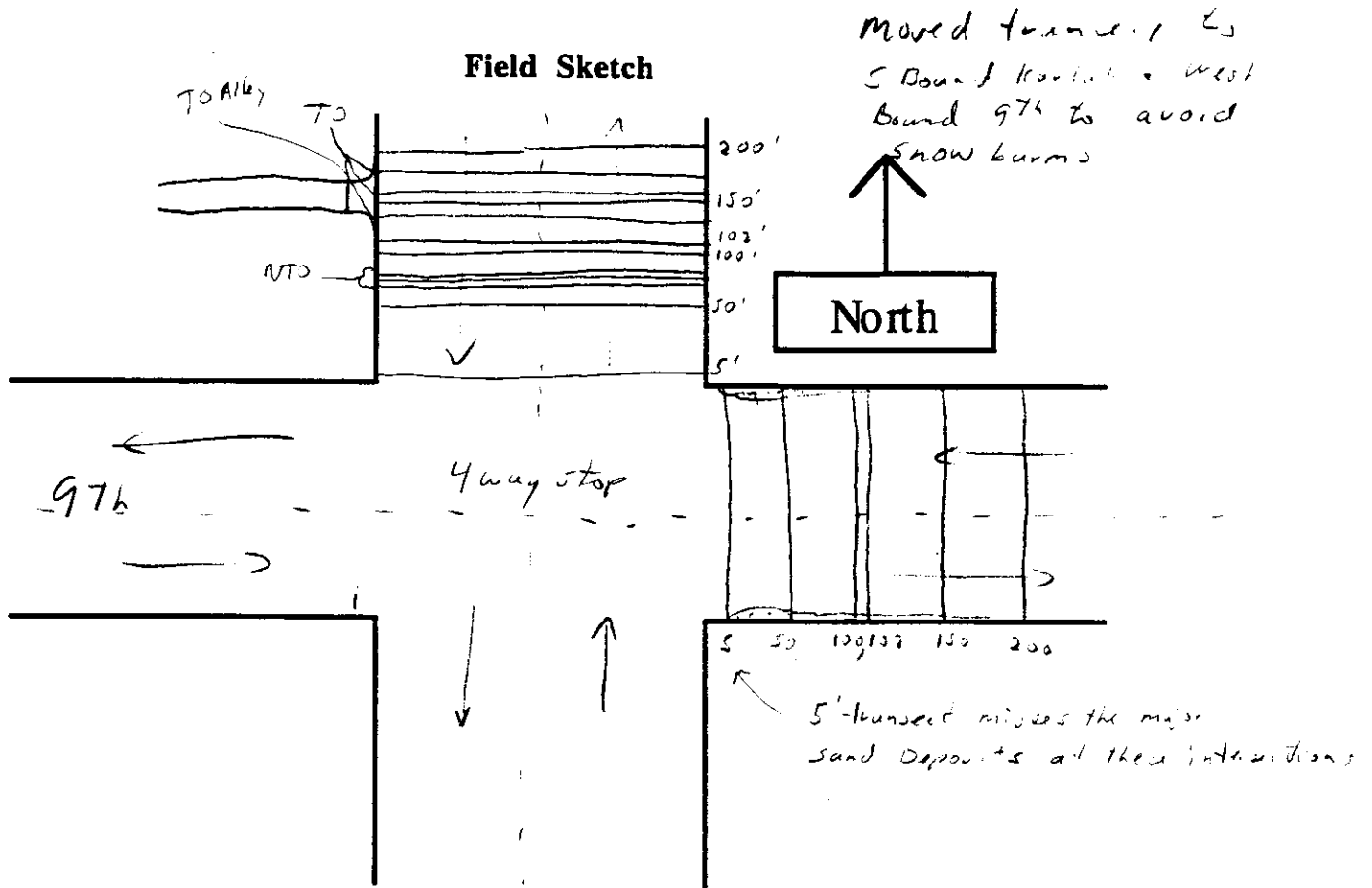
Site	<u>16<sup>th</sup></u>	Site	<u>Columbine</u>	Trackout Site
5	<u>41.5</u>	5	<u>45</u>	0 <u>        </u>
50	<u>36</u>	50	<u>36</u>	+15 <u>        </u>
100	<u>36</u>	100	<u>36</u>	-15 <u>        </u>
102	<u>36</u>	102	<u>36</u>	
150	<u>36</u>	150	<u>36</u>	
200	<u>36</u>	200	<u>36</u>	

**Street Sediment Loads Assessment Project  
Site Survey Field Note Form**

Date: 4/5/96 Weather Overcast 38°F, light wind

Sampling Team: Bill Spencer

Intersection: 9<sup>th</sup> & Karlake



Note track out site, controlled lane configuration, traffic flow, photo stations, transects, medians, and permanent features.

**Transect Lengths** (transect locations are measured from the curbline of the crossing street)

Site	<u>Karlak</u>	Site	<u>9<sup>th</sup></u>	Trackout Site
5	<u>8 1/2 paces (50')</u>	5	<u>8 1/2 paces (50')</u>	0
50	<u>8 paces (45')</u>	50	<u>8 paces (45')</u>	+15
100	_____	100	_____	-15
102	_____	102	_____	
150	_____	150	_____	
200	_____	200	<u>✓</u>	

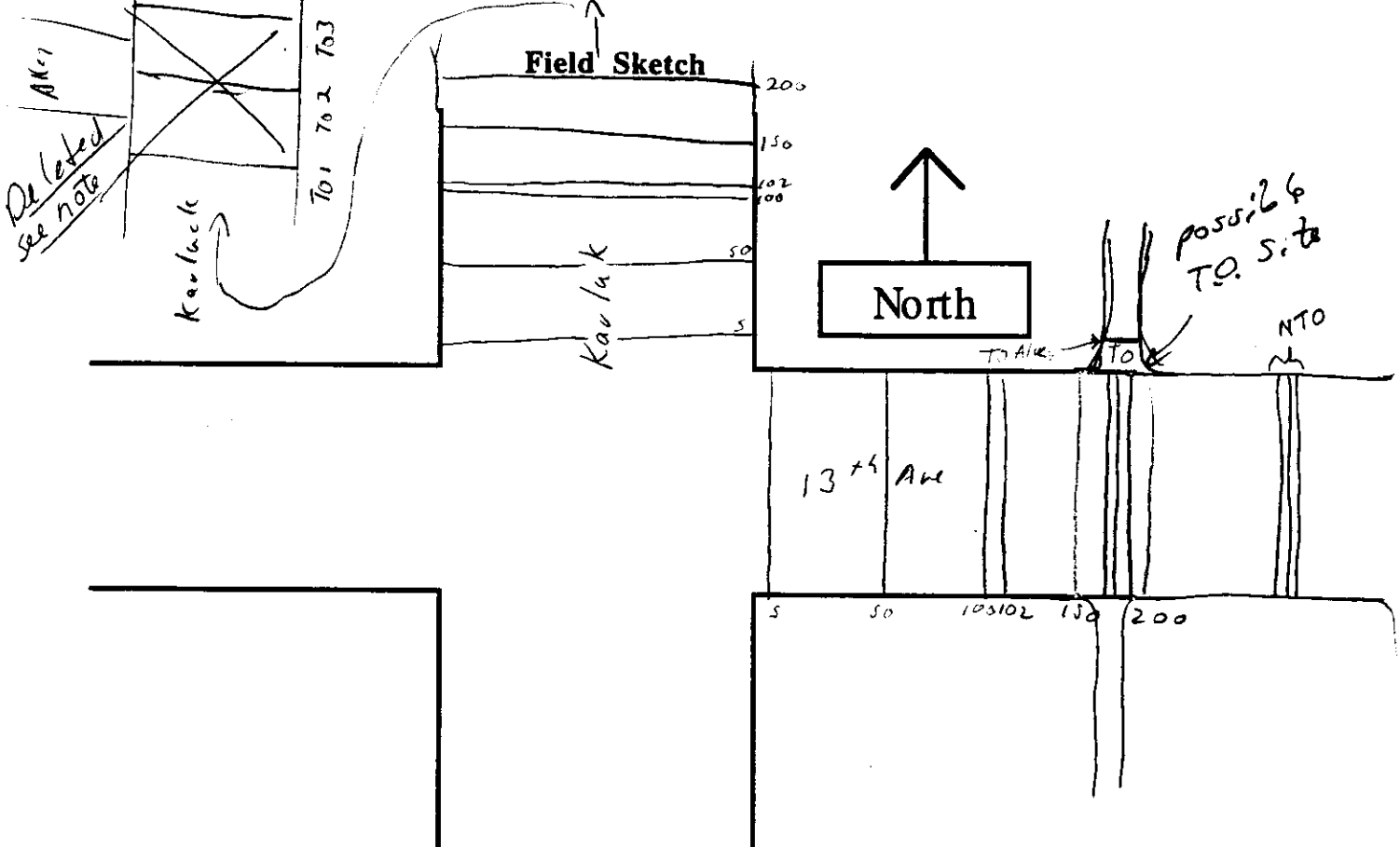
**Street Sediment Loads Assessment Project  
Site Survey Field Note Form**

6" transects

Date: 4/5/96 Weather Partly Cloudy 40°F

Sampling Team: Bill Spencer 1 Mark Alder

Intersection: 13<sup>th</sup> + Karluck



Note track out site, controlled lane configuration, traffic flow, photo stations, transects, medians, and permanent features.

**Transect Lengths (transect locations are measured from the curbline of the crossing street)**

Site	<u>Karluck South</u>	Site	<u>13<sup>th</sup> West Bound</u>	Trackout Site
5	<u>(55')</u>	5	<u>8 1/2 paces (55')</u>	0 <u>40'</u>
50	<u>(45')</u>	50	<u>7 1/2 paces (40')</u>	+15 <u>40'</u>
100	<u>          </u>	100	<u>7 1/2 paces</u>	-15 <u>40'</u>
102	<u>          </u>	102	<u>7 1/2 paces</u>	} <u>Include gutter @ 4/27/96</u>
150	<u>          </u>	150	<u>7 1/2</u>	
200	<u>          </u>	200	<u>          </u>	

Note Track out site is within the Non Ind Area and included areas of loose snow banks. site was deleted as infeasible

Call Home  
 cell 4/9/96  
 11/11/96

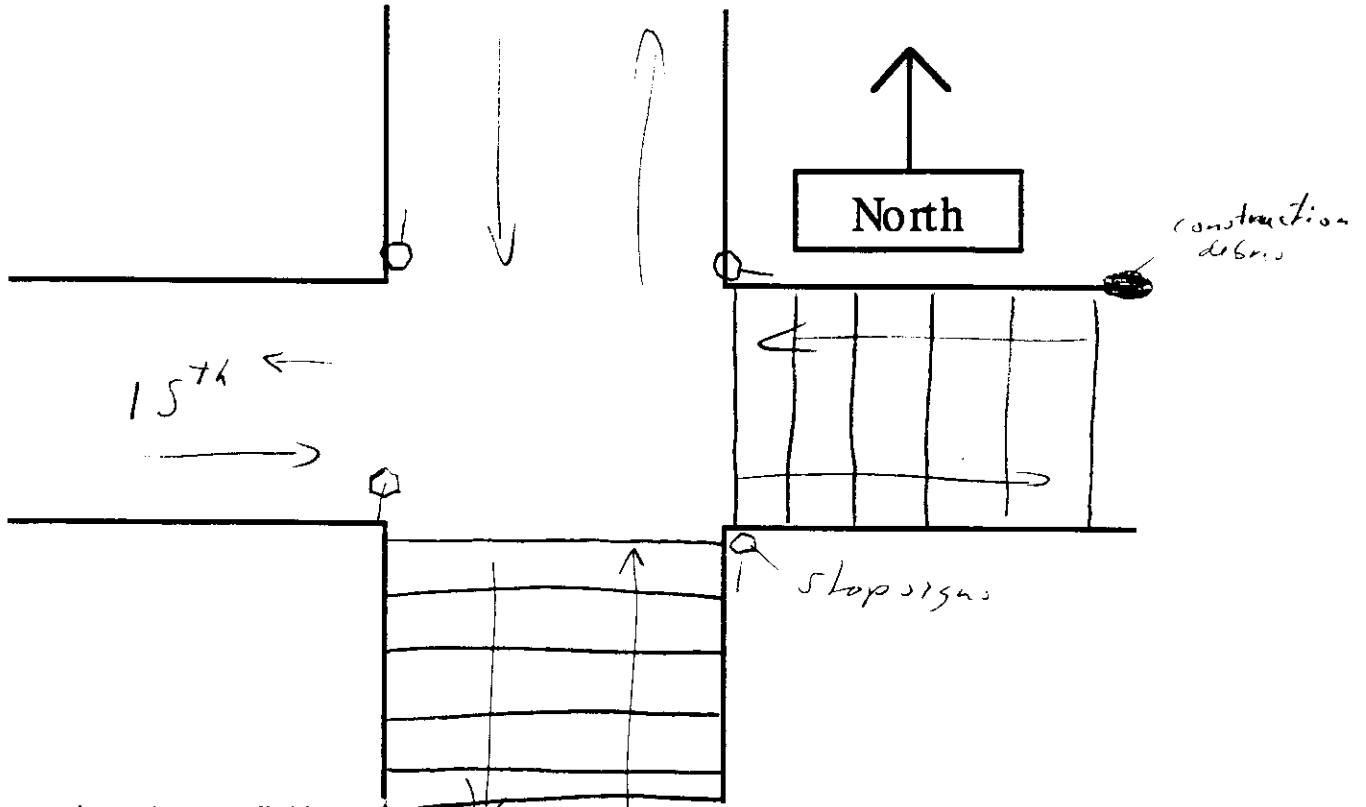
**Street Sediment Loads Assessment Project  
 Site Survey Field Note Form**

Date: 4-19-101-96 Weather Clear 40°F

Sampling Team: Bill Spencer

Intersection: 15<sup>th</sup> & Columbine

**Field Sketch**



Note track out site, controlled lane configuration, traffic flow, photo stations, transects, medians, and permanent features.

**Transect Lengths (transect locations are measured from the curbline of the crossing street)**

Site	15 <sup>th</sup>	Site	Columbine	Trackout Site
5	36'	5	36'	<del>0</del>
50		50		<del>+15</del>
100		100		<del>-15</del>
102		102		
150		150		
200		200		

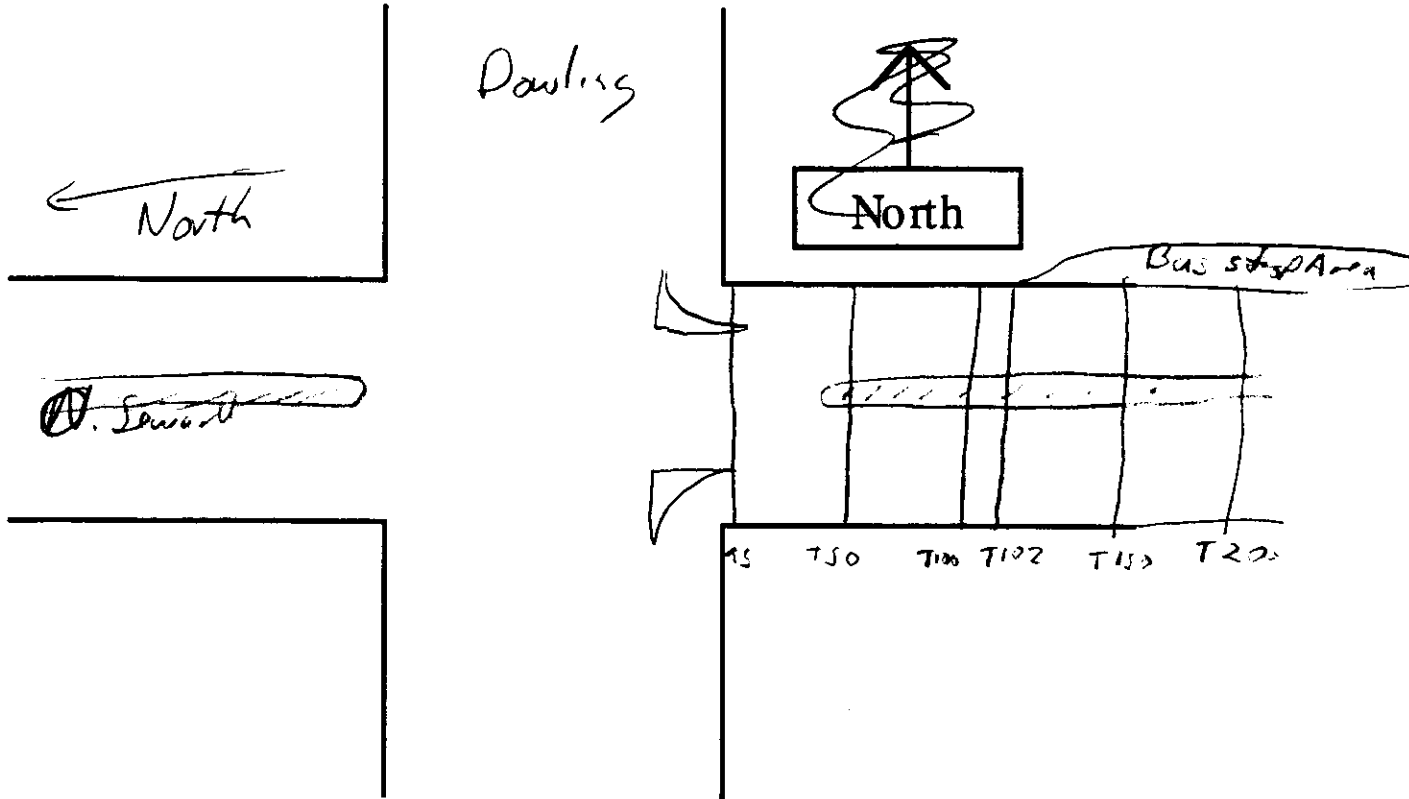
# Street Sediment Loads Assessment Project Site Survey Field Note Form

Date: 4/16/96 Weather 39°F clear

Sampling Team: Bill Spencer / Chris Brown

Intersection: Dowling + Old Seward

### Field Sketch



Note track out site, controlled lane configuration, traffic flow, photo stations, transects, medians, and permanent features.

### Transect Lengths (transect locations are measured from the curbline of the crossing street)

Site	<u>O.S.</u>	Site	Trackout Site
5	<u>108 ft 18 paces</u>	5	<u>0</u>
50	<u>72 ft 12</u>	50	<u>+15</u>
100	<u>72 ft 12</u>	100	<u>-15</u>
102	<u>72 ft 12</u>	102	
150	<u>81 ft 13.5</u>	150	
200	<u>80 ft 13.5</u>	200	

↳ Not including raised median

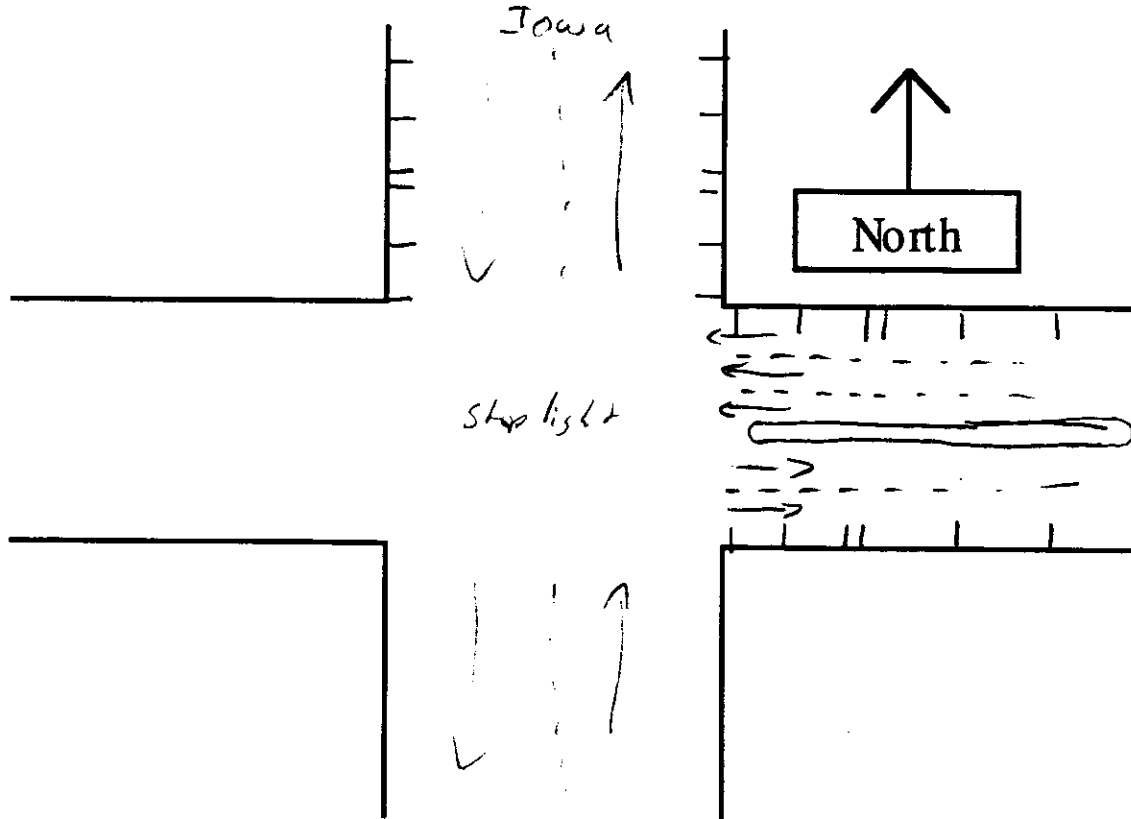
**Street Sediment Loads Assessment Project  
Site Survey Field Note Form**

Date: 7/24/96 Weather Overcast 50°F

Sampling Team: B. Spenn 1

Intersection: Iowa + Spenn

**Field Sketch**



Note track out site, controlled lane configuration, traffic flow, photo stations, transects, medians, and permanent features.

**Transect Lengths** (transect locations are measured from the curbline of the crossing street)

Site	<u>Spenn</u>	Site	<u>Iowa</u>	Trackout Site
5	<u>4</u>	5	<u>4</u>	0 _____
50	<u>8</u>	50	<u>4</u>	+15 _____
100	<u>8</u>	100	<u>4</u>	-15 _____
102	<u>8</u>	102	<u>4</u>	
150	<u>8</u>	150	<u>4</u>	
200	<u>8</u>	200	<u>4</u>	

*Curbs only*

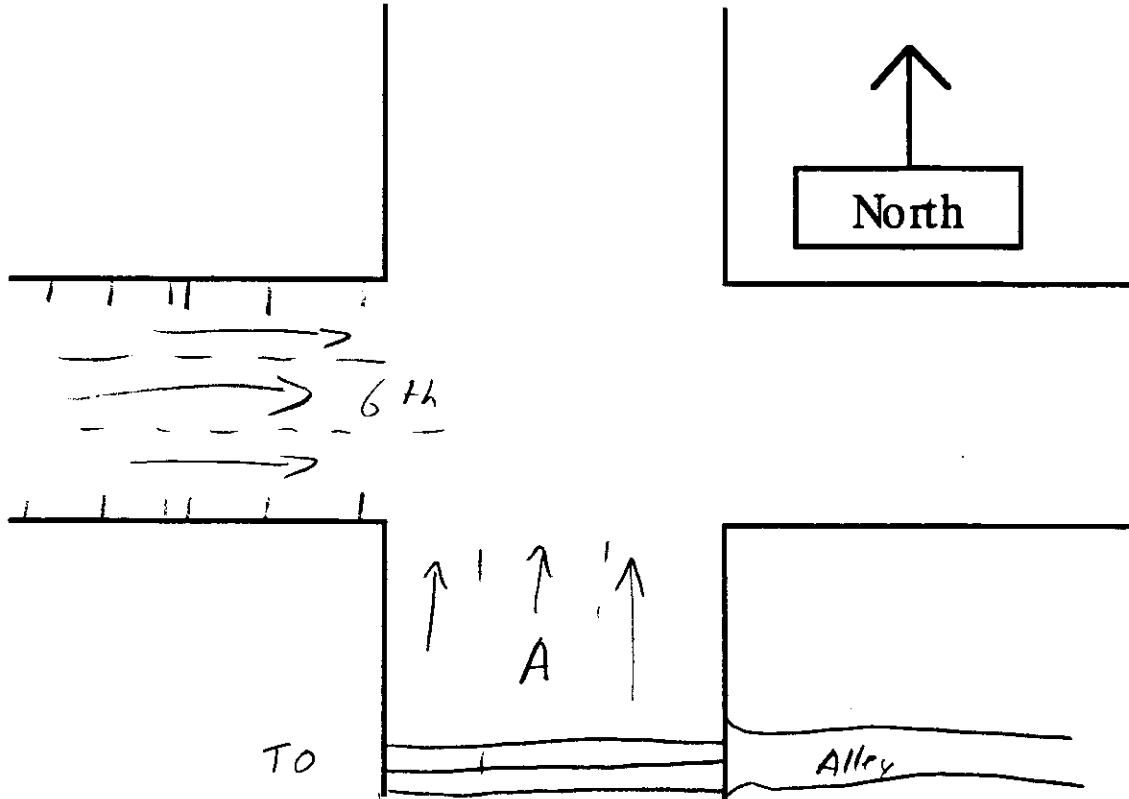
## Street Sediment Loads Assessment Project Site Survey Field Note Form

Date: 7/24/96 Weather overcast 50°F

Sampling Team: B. Spencer

Intersection: 6<sup>th</sup> & A Gutters only

### Field Sketch



Note track out site, controlled lane configuration, traffic flow, photo stations, transects, medians, and permanent features.

**Transect Lengths** (transsect locations are measured from the curbline of the crossing street) <sup>NTD</sup>

Site	<u>6<sup>th</sup></u>	Site	<u>A</u>	Trackout Site
5	<u>4</u>	5	<u>4</u>	0 <u>7 1/4 feet</u> <sup>9 = soft</sup>
50	<u>4</u>	50	<u>4</u>	+15
100	<u>4</u>	100	<u>4</u>	-15 <sup>↓</sup>
102	<u>4</u>	102	<u>4</u>	Non Track out
150	<u>4</u>	150	<u>4</u>	0
200	<u>4</u>	200	<u>4</u>	+15
				-15

Gutters only

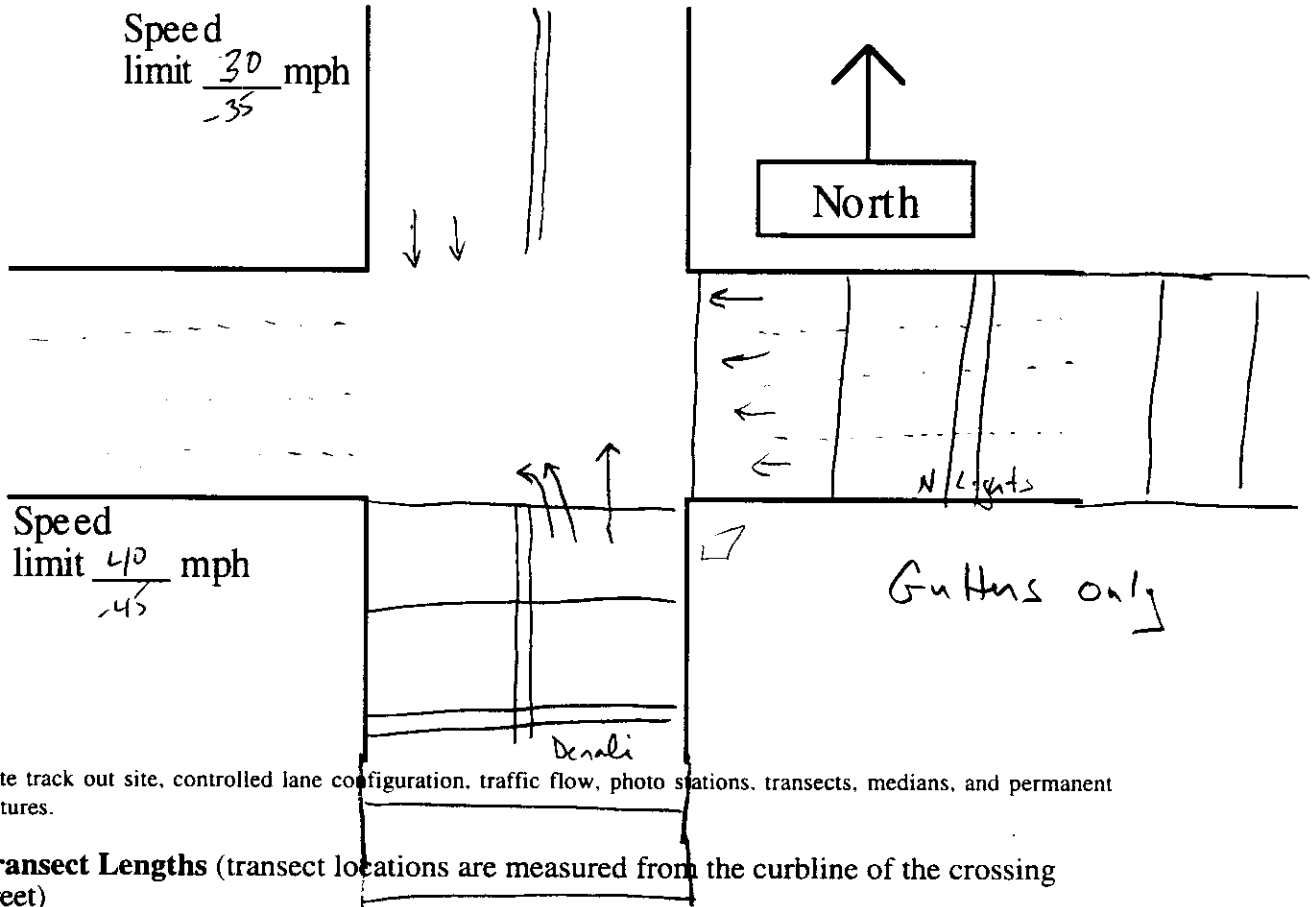
**Street Sediment Loads Assessment Project  
Site Field Survey Form**

Date: 7 / 26 / 96

Intersection: NL & Denali Weather Clear, 55°F

Sampling Team: Bill S. / Chris B

**Field Sketch**



Note track out site, controlled lane configuration, traffic flow, photo stations, transects, medians, and permanent features.

**Transect Lengths** (transect locations are measured from the curbline of the crossing street)

Site	Site	Trackout Site
5 _____	5 _____	TO 0 _____
50 _____	50 _____	+15 _____
100 _____	100 _____	-15 _____
102 _____	102 _____	NTO 0 _____
150 _____	150 _____	+15 _____
200 _____	200 _____	-15 _____



**FIELD LOGS AND SEDIMENT ANALYSIS DATA**

**Street Sediment Loads Assessment Project  
Sampling Field Note Form**

3:30 AM

Date: 3 / 20 / 96 Weather Clean, Cold 26°, Light Wind

Sampling Team: CW, CB, MD

Intersection: Newsewood # 36

Track Out Site Present: Y  N

Air Quality Site: Y /  N  ?

Y N

Comments

- Photos taken of all transects Night Time
- Photos taken from all photo stations ↓
- NA      Trackout site sampled (if present)
- NA      Air quality samples collected (if appropriate)
- All transects and strata sampled Not enough time. 1st

Attempt at sampling. Next time start @ 2am. Sampled from 3:30 - 5:00. Sampled 5' transect on NS only.

Vacuum Bag Tare Weights/Total Sample Weight

Site Newsewood

IG      g/      g 8" Head Sample ID     

ING      g/      g Sample ID     

NIG      g/      g Sample ID     

NING      g/      g Sample ID     

3/20 0320NSIG  
NSIG032096

0320NSING  
NSING032096

CP 3/20/96

Site     

IG      g/      g Sample ID     

ING      g/      g Sample ID     

NIG      g/      g Sample ID     

NING      g/      g Sample ID     

**TO Site**

G      g/      g Sample ID     

NG      g/      g Sample ID

**Street Sediment Loads Assessment Project  
Sampling Field Note Form**

Date: 3/21/96 Weather: Clear, dark (2:00 am) 15°, Calm

Sampling Team: CS, CW, BF 1

Intersection: Old Seward & 36th

Track Out Site Present: Y / (N)

Air Quality Site: (Y) / N

Y      N

Comments

     Photos taken of all transects

Photos taken later in day when light

     Photos taken from all photo stations

NA      Trackout site sampled (if present)

     Air quality samples collected (if appropriate)

Only Non gutter transects per DMHS AQ  
↳ 2 transects / area except OS NING  
due to large amount of dirt  
Air Q Sampls

      All transects and strata sampled

Vacuum Bag Tare Weights/Total Sample Weight

Site OS

IG 71g g/ g      Sample ID OSIG032196

ING      g/ g      Sample ID OSING032196 + AQ

NIG      g/ g      Sample ID OSNIG032196

NING      g/ g      Sample ID OSNING032196 LAQ

Transect width 2.8"

36 ~~ING~~ AQ 2 transects  
36 NING-AQ  
OS IG AQ  
OS NING-AQ 3 transects

Site 36

IG 71g g/ g      Sample ID 36IG032196

ING      g/ g      Sample ID 36ING032196 + AQ

NIG      g/ g      Sample ID 36NIG032196

NING      g/ g      Sample ID 36NING032196 + AQ

10" transects

TO Site

G      g/ g      Sample ID     

NG      g/ g      Sample ID

# 8 inch Wide Transects

## Oil and Grit Separator Assessment Program Initial Sediment Load Sampling and Oiled Surface Assessment Field Notes.

Sampling Date: 3/22/96

Sampling Team: Field Team Leader CB  
Sampler BF

Washoff Area:  
( N.L.L. W.) ( W. 23rd Ave.)

Sub area:  Intersection  Non Intersection  
 Gutter  Non Gutter

Sampling Method \_\_\_\_\_ Film Roll Number \_\_\_\_\_  
Composit Sample ID Number \_\_\_\_\_

Sampled only  
gutter on N  
Side of Street.  
South side  
gutter was  
Swept. @ 3/22/96

66 5.5  
Bag Weights on 7g Tare

Transect number	Transect length	Photo Number	Age and area of oiled patches > 6" Ø in previous 50' of street.	Comments
			_____ ft <sup>2</sup> Fresh 2 3 4 Weath.	IG Sample # 9500311201 NLTS IG 032296
111	26.0		_____ ft <sup>2</sup> Fresh 2 3 4 Weath.	NING Sample # 9500311202 NLTS NIG 032299
101	52.3	} AQ	_____ ft <sup>2</sup> Fresh 2 3 4 Weath.	ING Sample # 9500311203 NLTS ING 032298
102	48.3		_____ ft <sup>2</sup> Fresh 2 3 4 Weath.	NING Sample # 9500311204 NLTS NING 032296
103			_____ ft <sup>2</sup> Fresh 2 3 4 Weath.	
104			_____ ft <sup>2</sup> Fresh 2 3 4 Weath.	
105		} AQ	_____ ft <sup>2</sup> Fresh 2 3 4 Weath.	
106			_____ ft <sup>2</sup> Fresh 2 3 4 Weath.	
107			_____ ft <sup>2</sup> Fresh 2 3 4 Weath.	
108			_____ ft <sup>2</sup> Fresh 2 3 4 Weath.	
109			_____ ft <sup>2</sup> Fresh 2 3 4 Weath.	

110

112

T +  
Non Int



Street Sediment Loads Assessment Project  
Sampling Field Note Form

8 inch  
- Transsects

Date: 3/22/96 Weather old, clear 25°, 2am, dark

Sampling Team: CR BF /

Intersection: ~~W~~ Diamond & King (Only Diamond Sampled)

Track Out Site Present: Y (N)

Air Quality Site: Y (N)

Y    N   

Comments

- Photos taken of all transects
- Photos taken from all photo stations only Diamond (2)
- NA Trackout site sampled (if present)
- NA Air quality samples collected (if appropriate)
- All transects and strata sampled

Transect #2  
for IG  
is 5" wide  
not 8"

Ran out of Time

Intersection Gutter collected

Intersection non-gutter collected  
Composite from Transects at 5  
and 100 feet only.

Vacuum Bag Tare Weights/Total Sample Weight

Site Diamond

IG 7166 g/ g

Sample ID DMIG-032296

ING 7166 g/ g

Sample ID DMING-032296

NIG    g/ g

Sample ID   

NING    g/ g

Sample ID   

Site   

See sampling episode note on back  
of site survey form. CR 3/24/96

IG    g/ g

Sample ID   

ING    g/ g

Sample ID   

NIG    g/ g

Sample ID   

NING    g/ g

Sample ID   

**TO Site**

G    g/ g

Sample ID   

NG    g/ g

Sample ID

**Street Sediment Loads Assessment Project  
Sampling Field Note Form**

*8 inch  
- Transects*

*Time 10:00 am*

Date: 3/26/96 Weather 28° Cloudy

Sampling Team: CW BF

Intersection: 12th N

Track Out Site Present: Y / (N) Air Quality Site: Y / (N)

Y N Comments

- NA Photos taken of all transects \_\_\_\_\_
- \_\_\_\_\_ Photos taken from all photo stations \_\_\_\_\_
- NA Trackout site sampled (if present) \_\_\_\_\_
- NA Air quality samples collected (if appropriate) \_\_\_\_\_
- \_\_\_\_\_ All transects and strata sampled \_\_\_\_\_

Vacuum Bag Tare Weights/Total Sample Weight

Site 12

IG	<u>7166.5</u> g	g	Sample ID	<u>12IG-032696</u>	
ING		g	g	Sample ID	<u>12ING-032696</u>
NIG		g	g	Sample ID	<u>12NIG-032696</u>
NING	↓	g	g	Sample ID	<u>12NING-032696</u>

Site 12 N

IG	<u>7166.5</u> g	g	Sample ID	<u>NIG-032696</u>	
ING		g	g	Sample ID	<u>NING-032696</u>
NIG		g	g	Sample ID	<u>NNIG-032696</u>
NING	↓	g	g	Sample ID	<u>NNING-032696</u>

~~NO Site~~

<del>G</del>	<del>_____</del> g	g	Sample ID	<del>_____</del>
<del>NG</del>	<del>_____</del> g	g	Sample ID	<del>_____</del>

*12th N  
474*

**Street Sediment Loads Assessment Project  
Sampling Field Note Form**

*8 inch  
- Nuncanti*

Date: 3/27/96 <sup>3:00 am</sup> Weather 27°F Partly Cloudy → Clearing <sup>Dark</sup>

Sampling Team: GW 1 BF

Intersection: 5th & Reeve

Track Out Site Present: Y / (N) Air Quality Site: (Y) / N

Y	N		<u>Comments</u>
<input type="checkbox"/>	<input type="checkbox"/>	Photos taken of all transects	_____
<input type="checkbox"/>	<input type="checkbox"/>	Photos taken from all photo stations	_____
<input type="checkbox"/>	<u>N/A</u>	Trackout site sampled (if present)	_____
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Air quality samples collected (if appropriate)	_____
<input checked="" type="checkbox"/>	<input type="checkbox"/>	All transects and strata sampled	_____

Vacuum Bag Tare Weights/Total Sample Weight

Site 5th

IG	<u>7166</u> g	Sample ID	<u>SIG-032796</u>
ING	g/ g	Sample ID	<u>SING-032796</u> } AG
NIG	g/ g	Sample ID	<u>SNIG-032796</u>
NING	g/ g	Sample ID	<u>SNING-032796</u> } AG

Site Reeve

IG	<u>7166</u> g	Sample ID	<u>RVIG-032796</u>
ING	g/ g	Sample ID	<u>RVING-032796</u> } AG
NIG	g/ g	Sample ID	<u>RVNIG-032796</u>
NING	g/ g	Sample ID	<u>RVNING-032796</u> } AG

**TO Site**

G	<del>g/ g</del>	Sample ID	<del>_____</del>
NG	<del>g/ g</del>	Sample ID	<del>_____</del>

**Street Sediment Loads Assessment Project  
Sampling Field Note Form**

*8 inches  
Transects*

Date: 9:00am 3/27/96 Weather 35°F Sunny - Slight Wind

Sampling Team: CW BF

Intersection: 15th & E

Track Out Site Present: Y  N Air Quality Site: Y  N

Y <input type="checkbox"/> N <input type="checkbox"/>		<u>Comments</u>
<input checked="" type="checkbox"/>	Photos taken of all transects	_____
<input checked="" type="checkbox"/>	Photos taken from all photo stations	_____
<input type="checkbox"/> <u>N/A</u>	Trackout site sampled (if present)	_____
<input type="checkbox"/> <input checked="" type="checkbox"/>	Air quality samples collected (if appropriate)	_____
<input checked="" type="checkbox"/>	All transects and strata sampled	_____

Vacuum Bag Tare Weights/Total Sample Weight

Site E

IG	<u>2166</u> g	g	Sample ID	<u>EIG032796</u>
ING	g	g	Sample ID	<u>EING032796</u>
NIG	g	g	Sample ID	<u>ENIG032796</u>
NING	g	g	Sample ID	<u>ENING032796</u>

Site 15th

IG	<u>2166</u> g	g	Sample ID	<u>15IG032796</u>
ING	g	g	Sample ID	<u>15ING032796</u>
NIG	g	g	Sample ID	<u>15NIG032796</u>
NING	g	g	Sample ID	<u>15NING032796</u>

TO Site

G	g	g	Sample ID	_____
NG	g	g	Sample ID	_____



**Street Sediment Loads Assessment Project  
Sampling Field Note Form**

- 8 inch  
Transects

Date: 1/21/96 Weather Overcast 28°

Sampling Team: Bill Spencer 1 Brent Furr

Intersection: 16<sup>th</sup> + Columbine

Track Out Site Present: Y / (N)

Air Quality Site: Y / (N)

Y      N

Comments

- Photos taken of all transects
- Photos taken from all photo stations
- N/A Trackout site sampled (if present)
- Air quality samples collected (if appropriate)
- All transects and strata sampled

- Some transects were offset slightly to avoid ice in gutters  
- Some gutter areas sampled with shovel only, no vacume, as they contained standing water

Vacuum Bag Tare Weights/Total Sample Weight

Site 16<sup>th</sup>

IG 66 g g

Sample ID 16 IG 040296

ING      g g

Sample ID 16 ING 040296

NIG      g g

Sample ID 16 NIG 040296

NING      g g

Sample ID 16 NING 040296

Site Columbine

IG 66 g g

Sample ID C0 IG 040296

ING      g g

Sample ID C0 ING 040296

NIG      g g

Sample ID C0 NIG 040296

NING      g g

Sample ID C0 NING 040296

**TO Site**

G      g g

Sample ID     

NG      g g

Sample ID

**Street Sediment Loads Assessment Project  
Sampling Field Note Form**

Date: 4/5/95 Weather: Overcast 38° light wind

Sampling Team: Bill Spender

Intersection: 9<sup>th</sup> & Karluk

Track Out Site Present: Y / (N)

Air Quality Site: Y / (N)

Y N

Comments

- Photos taken of all transects
- Photos taken from all photo stations
- N/A Trackout site sampled (if present)
- N/A Air quality samples collected (if appropriate)
- All transects and strata sampled

9<sup>th</sup> may have  
been swept  
before snow  
burns melted?  
check dates  
  
No  
evidence  
of this  
@ 10/2/96

Vacuum Bag Tare Weights/Total Sample Weight

Site <u>9<sup>th</sup></u>		Trans width	
IG <u>    </u> g	<u>    </u> g	<u>8 1/2"</u>	Sample ID <u>9<sup>th</sup> IG 040596</u>
ING <u>66 21</u> g	<u>    </u> g	<u>6"</u>	Sample ID <u>9<sup>th</sup> ING</u>
NIG <u>    </u> g	<u>    </u> g	<u>8 1/2"</u>	Sample ID <u>9<sup>th</sup> NIG</u>
NING <u>66 21</u> g	<u>    </u> g	<u>6"</u>	Sample ID <u>9<sup>th</sup> NING ✓</u>

All gutter transects  
sampled with shovel  
& Anson

Site <u>Karluk</u>			
IG <u>    </u> g	<u>    </u> g	<u>8 1/2"</u>	Sample ID <u>KBJG 040596</u>
ING <u>66 21</u> g	<u>    </u> g	<u>6"</u>	Sample ID <u>    ING</u>
NIG <u>    </u> g	<u>    </u> g	<u>8 1/2"</u>	Sample ID <u>    NIG</u>
NING <u>66 21</u> g	<u>    </u> g	<u>6"</u>	Sample ID <u>✓ NING</u>

**TO Site**

G <u>    </u> g	<u>    </u> g	Sample ID <u>    </u>
NG <u>    </u> g	<u>    </u> g	Sample ID <u>    </u>

**Street Sediment Loads Assessment Project  
Sampling Field Note Form**

Date: 4/5/96 Weather Overcast 40°F

Sampling Team: Bill Spencer / Mark Alder

Intersection: 13th & Karluck

Track Out Site Present: (Y) N Air Quality Site: Y / N  
Y N *Not Sampled see note on sketch*  
Comments

- Photos taken of all transects \_\_\_\_\_
- Photos taken from all photo stations \_\_\_\_\_
- Trackout site sampled (if present) Track out site Snow Bound
- Air quality samples collected (if appropriate) \_\_\_\_\_
- All transects and strata sampled \_\_\_\_\_

Vacuum Bag Tare Weights/Total Sample Weight

Site 13<sup>N</sup>

IG	<u>71</u> g	g	8	Sample ID	<u>13 I G 04 05 96</u>
ING	<u>77</u> g	g		Sample ID	<u>13 I N G 04 05 96</u>
NIG	<u>71</u> g	g		Sample ID	<u>13 N I G 04 05 96</u>
NING	<u>77</u> g	g		Sample ID	<u>13 N I N G 04 05 96</u>

*9/11 gutter  
Transects sampled  
with 8" suction  
N60 gutter sampled  
with 6" suction  
head*

Site \_\_\_\_\_

IG	<u>NA</u> g	g		Sample ID	<u>KA I G 04 05 96</u>
ING	<u>6671</u> g	g		Sample ID	<u>KA I N G 04 05 96</u>
NIG	<u>NA</u> g	g		Sample ID	<u>KA N I G 04 05 96</u>
NING	<u>6671</u> g	g		Sample ID	<u>KA N I N G 04 05 96</u>

**TO Site**

G	_____ g	g	Sample ID	_____
NG	_____ g	g	Sample ID	_____

fill all  
 Sample 4/19/96 (CP)  
 11/18/96

Street Sediment Loads Assessment Project  
 Sampling Field Note Form

Date: 4-19-10/96 Weather Clear 40°F

Sampling Team: Bill Spencer /

Intersection: 15th Columbus

Track Out Site Present: Y / N Air Quality Site: Y / N

Y N

Comments

- Photos taken of all transects Two photos mislabeled wadch do-  
them
- Photos taken from all photo stations
- Trackout site sampled (if present)
- Air quality samples collected (if appropriate) AQ sampling requires a new filter  
for each transect, very time consuming
- All transects and strata sampled

Vacuum Bag Tare Weights/Total Sample Weight

Site 15th

Sampling Method

IG	<u>        </u> g	g	Sample ID	<u>ISA IG 040996</u> sheet	
ING	<u>66</u> g	g	Sample ID	<u>ISA ING 040996</u>	6" transect GV + 041096 AQ
NIG	<u>        </u> g	g	Sample ID	<u>ISA NIG 040996</u>	8" sheet <del>+ 041096</del>
NING	<u>66</u> g	g	Sample ID	<u>ISA NING 040996</u>	6" transect GV + 041096 AQ

Site Col

IG	<u>        </u> g	g	Sample ID	<u>COL IG 040996</u> sheet	
ING	<u>66</u> g	g	Sample ID ✓	<u>COL ING 040996</u>	6" transect GV + 041096 AQ
NIG	<u>        </u> g	g	Sample ID	<u>COL NIG 040996</u>	8" sheet
NING	<u>66</u> g	g	Sample ID ✓	<u>COL NING 040996</u>	6" transect Vacuum + 041096 AQ

TO Site

G	<u>        </u> g	g	Sample ID	<u>                        </u>
NG	<u>        </u> g	g	Sample ID	<u>                        </u>

**Street Sediment Loads Assessment Project  
Sampling Field Note Form**

*all transects  
vacuumed 6" except  
as noted*

Date: 4/16/96 Weather 39°F Clear

Sampling Team: Bill Spencer / Chris Brown

Intersection: 36<sup>th</sup> + New Seward

Track Out Site Present: Y / (N) Air Quality Site: Y / (N)

<u>Y</u> / <u>N</u>	<u>Comments</u>
<u>—</u> / <u>✓</u>	Photos taken of all transects
<u>—</u> / <u>✓</u>	Photos taken from all photo stations
<u>—</u> / <u>✓</u>	Trackout site sampled (if present)
<u>—</u> / <u>NA</u>	Air quality samples collected (if appropriate)
<u>✓</u> / <u>—</u>	All transects and strata sampled

Vacuum Bag Tare Weights/Total Sample Weight

Site 36<sup>th</sup> Length of D.S. See 36<sup>th</sup> + NS 3/20/96

IG	<u>66 g</u> g	<u>20</u> <del>Transect</del> Sample ID	<u>36BIG 041696</u>
ING	<u>71 g</u> g	<u>27</u> Sample ID	<u>36B TING</u>
NIG	<u>66 g</u> g	<u>24</u> Sample ID	<u>36B NIG</u>
NING	<u>66 g</u> g	<u>180</u> Sample ID	<u>36B NING</u>

Site New Seward

IG	<u>66 g</u> g	Sample ID	<u>NSIG</u>	- E Side Transects 4' long
ING	<u>66 g</u> g	Sample ID	<u>NSING</u>	
NIG	<u>66 g</u> g	Sample ID	<u>NSNIG</u>	- E Side Transects 4' long
NING	<u>66 g</u> g	Sample ID	<u>NSNING</u>	

TO Site

G	<u>NA</u> g	Sample ID	<u>                    </u>
NG	<u>NA</u> g	Sample ID	<u>                    </u>

*Intersection has been swept several times but still contains  
dirt along gutters and may be swept again. — Estimate 04/05/96  
in addition to documented 3/20/96 (CP) 4/96*

**Street Sediment Loads Assessment Project  
Sampling Field Note Form**

6" Transects

Date: 4/16/1996 Weather: Clear 39°F

Sampling Team: CR BS

Intersection: Old Street & Dowling (OSD) OSD only

Track Out Site Present: Y (N) Air Quality Site: Y (N)

Y    N   

- Photos taken of all transects
- Photos taken from all photo stations
- Trackout site sampled (if present)
- Air quality samples collected (if appropriate)
- All transects and strata sampled

Comments Dowling has no gutters & dirt areas adjacent to street return during day. So no sampling.

NING AQ Transects doubled f/wms  
W side Gutter transect  
4' for 200' and 150' transect  
W side only

Vacuum Bag Tare Weights/Total Sample Weight

Site (OS) & Dowling

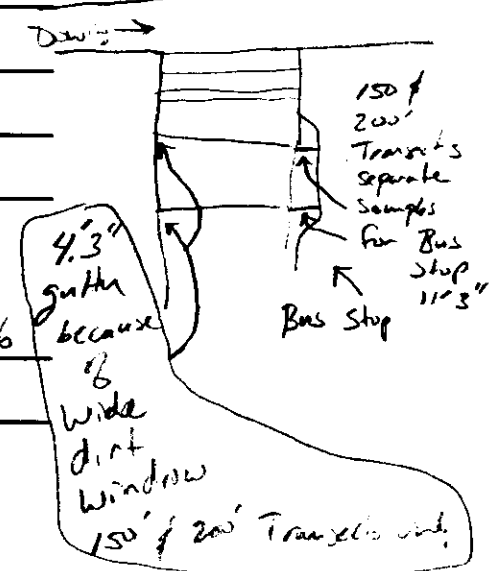
IG	g	g	Sample ID
<u>66</u>	<u>  </u>	<u>  </u>	<u>OSDIG-041696</u>
ING	<u>  </u>	<u>  </u>	<u>OSDING-041696</u>
NIG	<u>  </u>	<u>  </u>	<u>OSDNIG-041696</u>
NING	<u>  </u>	<u>  </u>	<u>OSDNING-041696</u>
Site			
IG	<u>  </u>	<u>  </u>	<u>  </u>
ING	<u>  </u>	<u>  </u>	<u>  </u>
NIG	<u>  </u>	<u>  </u>	<u>  </u>
NING	<u>  </u>	<u>  </u>	<u>  </u>
<u>TO Site</u>			
<u>NI</u> <u>G</u>	<u>11.3"</u>	<u>  </u>	<u>OSBBSNIG-041696</u>
NG	<u>  </u>	<u>  </u>	<u>  </u>

in 2 bags

Sampled Transects 2X  
both Air-Q & WMS samples

1 transect only  
5' very dirty  
Dirtiest of 3 intersect  
Transects

x2 (200' & 150')



**Street Sediment Loads Assessment Project  
Sampling Field Note Form**

Date: 4/18/96 Weather Sunny 50°F

Sampling Team: Bill Spencer 1

Intersection: 9<sup>th</sup> + Kaulak

Track Out Site Present: Y / (N)

Air Quality Site: Y / (N)

Y    N

Comments

*Assumed same for 13<sup>th</sup> & Kaulak @ 11/19/96*

- Photos taken of all transects Swept 2 days ago, rained
- Photos taken from all photo stations yesterday, sunny today but
- Trackout site sampled (if present) still some gutter flow. Used
- Air quality samples collected (if appropriate) 8" brush head to loosen
- All transects and strata sampled street sweep smear from pavement

Vacuum Bag Tare Weights/Total Sample Weight

Site Kaulak

IG	<u>66 g</u> g	Sample ID	<u>KBIG041896</u>	width of transect	16"
ING	<u>66 g</u> g	Sample ID	<u>KBING041896</u>		8"
NIG	<u>66 g</u> g	Sample ID	<u>KB NIG 041896</u>		16"
NING	<u>66 g</u> g	Sample ID	<u>KB NING 041896</u>		8"

Site 9<sup>th</sup>

IG	<u>66 g</u> g	Sample ID	<u>9<sup>th</sup>IG041896</u>		16"
ING	<u>66 g</u> g	Sample ID	<u>9<sup>th</sup>ING041896</u>		8"
NIG	<u>66 g</u> g	Sample ID	<u>9<sup>th</sup>NIG041896</u>		16"
NING	<u>66 g</u> g	Sample ID	<u>9<sup>th</sup>NING041896</u>		8"

**TO Site**

G	<u>W/A</u> g	Sample ID	<u>                    </u>
NG	<u>W/A</u> g	Sample ID	<u>                    </u>

**Street Sediment Loads Assessment Project  
Sampling Field Note Form**

Date: 4/19/96 Weather Clear 48°F

Sampling Team: Bill Spencer

Intersection: 5<sup>th</sup> & Revere

Track Out Site Present: Y / (N) Air Quality Site: Y / (N)

Y \_\_\_ N \_\_\_\_\_ Comments

\_\_\_ Photos taken of all transects \_\_\_\_\_

\_\_\_ Photos taken from all photo stations next morning

\_\_\_ \_\_\_ Trackout site sampled (if present) \_\_\_\_\_

\_\_\_ \_\_\_ Air quality samples collected (if appropriate) \_\_\_\_\_

\_\_\_ All transects and strata sampled \_\_\_\_\_

Vacuum Bag Tare Weights/Total Sample Weight

Site 5<sup>th</sup> Transect width check photos 0.5, 5/13

IG 66 g/ g 16" 8" Sample ID 5IG041996

ING 66 g/ g 8" Sample ID 5TING041996

NIG 66 g/ g 16" 8" Sample ID 5NIG041996

NING 66 g/ g 8" Sample ID 5NTING041996

Site Revere

IG 66 g/ g 16" 8" Sample ID RVIG041996

ING 66 g/ g 8" Sample ID RVING041996

NIG 66 g/ g 16" 8" Sample ID RVNIG041996

NING 60 g/ g 8" Sample ID RVNING041996

**TO Site**

G \_\_\_\_\_ g/ \_\_\_\_\_ g Sample ID \_\_\_\_\_

NG \_\_\_\_\_ g/ \_\_\_\_\_ g Sample ID \_\_\_\_\_



**Street Sediment Loads Assessment Project  
Sampling Field Note Form**

Date: 4/19/1 Weather Clear 45°F

Sampling Team: Dill Spencer

Intersection: Diamond & King (Diamond only)

Track Out Site Present: Y  N Air Quality Site:  N

Y	N		<u>Comments</u>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Photos taken of all transects	_____
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Photos taken from all photo stations	<u>Photos taken on the following morning</u>
<input type="checkbox"/>	<input type="checkbox"/>	Trackout site sampled (if present)	_____
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Air quality samples collected (if appropriate)	_____
<input checked="" type="checkbox"/>	<input type="checkbox"/>	All transects and strata sampled	_____

Vacuum Bag Tare Weights/Total Sample Weight

Site <u>Diamond</u>					
IG	<u>66</u> g	g	<u>8"</u> Sample ID	<u>DM IG 04 19 96</u>	
ING	<u>↓</u> g	g	<u>8"</u> Sample ID	<u>DM ING 04 19 96 + AQ</u>	
NIG	<u>↓</u> g	g	<u>8"</u> Sample ID	<u>DM NIG 04 19 96</u>	
NING	<u>↓</u> g	g	<u>8"</u> Sample ID	<u>DM NING 04 19 96 + AQ</u>	

*Transect width* (check from photos may be 8")

✓ OS 5/13

Site _____				
IG	_____ g	g	Sample ID	_____
ING	_____ g	g	Sample ID	_____
NIG	_____ g	g	Sample ID	_____
NING	_____ g	g	Sample ID	_____

*King sampled later (4/25)*

**TO Site**

G	_____ g	g	Sample ID	_____
NG	_____ g	g	Sample ID	_____

**Street Sediment Loads Assessment Project  
Sampling Field Note Form**

Date: 4/23/96 Weather: Overcast 48°F Rain showers (street not wet)

Sampling Team: B. Spencer / \_\_\_\_\_

Intersection: 16<sup>th</sup> + Columbine

Track Out Site Present: Y / N Air Quality Site: Y / N

Y N

Comments

Photos taken of all transects \_\_\_\_\_

Photos taken from all photo stations \_\_\_\_\_

N/A Trackout site sampled (if present) \_\_\_\_\_

Air quality samples collected (if appropriate) (~~Air quality on Columbine only~~)

All transects and strata sampled (~~Rain shower stopped sampling~~)

Vacuum Bag Tare Weights/Total Sample Weight

Site 16<sup>th</sup>

IG 67 g g <sup>Transect width</sup> 16" Sample ID 16IG042396

ING 67 g g 8" Sample ID 16ING042396+AQ

NIG 67 g g 16" Sample ID 16NIG042396

NING 67 g g 8" Sample ID 16NING042396+AQ sampled off of Damp Pavement

Site Columbine

IG 67 g g 16" Sample ID COIG042396

ING 67 g g 8" Sample ID COING042396 +AQ (2 transects only)

NIG 66 g g 16" Sample ID CONIG042396

NING 66 g g 8" Sample ID CONING042396 +AQ

Check Bag wts

**TO Site**

G W/A g Sample ID \_\_\_\_\_

NG W/A g Sample ID \_\_\_\_\_

Streets swept approximately 5 days ago, parked cars left several areas of heavy deposits. 7/19/96 assumed same data for 15<sup>th</sup> & Col @ 11/4/96

**Street Sediment Loads Assessment Project  
Sampling Field Note Form**

Date: 4/24/96 Weather 50° Overcast

Sampling Team: B. Spencer

Intersection: 13<sup>th</sup> & Karlake

Track Out Site Present: Y / (N)

Air Quality Site: Y / (N)

Y    N

Comments

- Photos taken of all transects \_\_\_\_\_
- Photos taken from all photo stations \_\_\_\_\_
- Trackout site sampled (if present) \_\_\_\_\_
- Air quality samples collected (if appropriate) \_\_\_\_\_
- All transects and strata sampled \_\_\_\_\_

Vacuum Bag Tare Weights/Total Sample Weight

Site	<u>13<sup>th</sup></u>		Transect width	
IG	<u>66</u> g	g	<u>20"</u>	Sample ID
ING	<u>  </u> g	g	<u>10"</u>	Sample ID
NIG	<u>  </u> g	g	<u>20"</u>	Sample ID
NING	<u>  </u> g	g	<u>10"</u>	Sample ID

- First site for new 10" Brush Attachment - seems to be better for picking street sweep smear.

13IG 042496  
13ING 042496  
13NIG 042496  
13NING 042496

Site	<u>Karlak</u>			
IG	<u>66</u> g	g	<u>20"</u>	Sample ID
ING	<u>  </u> g	g	<u>10"</u>	Sample ID
NIG	<u>  </u> g	g	<u>10"</u>	Sample ID
NING	<u>  </u> g	g	<u>10"</u>	Sample ID

KAIG 042496  
KAING 042496  
KANIG 042496  
KANING 042496

**TO Site**

G	<del><u>  </u> g</del>	g	Sample ID	<del>_____</del>
NG	<del><u>  </u> g</del>	g	Sample ID	<del>_____</del>

**Street Sediment Loads Assessment Project  
Sampling Field Note Form**

Date: 4/24/96 Weather: 40°F Clear

Sampling Team: B. Spencer

Intersection: 36th + Old Seaward

Track Out Site Present: Y / N Air Quality Site: Y / N

- | <u>Y</u> / <u>N</u>                 |  | <u>Comments</u>                    |
|-------------------------------------|--|------------------------------------|
| <input checked="" type="checkbox"/> | Photos taken of all transects                  |                                    |
| <input checked="" type="checkbox"/> | Photos taken from all photo stations           |                                    |
| <input type="checkbox"/>            | Trackout site sampled (if present)             |                                    |
| <input checked="" type="checkbox"/> | Air quality samples collected (if appropriate) | <u>Run out of Time No AQ taken</u> |
| <input checked="" type="checkbox"/> | All transects and strata sampled               |                                    |

AQ collected  
042596

Vacuum Bag Tare Weights/Total Sample Weight

Site 36th

IG	<u>65.5</u> g	g
ING	<u>        </u> g	g
NIG	<u>        </u> g	g
NING	<u>        </u> g	g

Transect width  
20"

Sample ID	<u>36IG042496</u>
Sample ID	<u>36ING042496</u>
Sample ID	<u>36NIG042496</u>
Sample ID	<u>36NING042496</u>

no AQ ~~all the AQ~~  
1 1/2 ~~Samps 0424~~  
~~for simplicity~~  
36ING-042596 AQ

Site Old Seaward

IG	<u>69.5</u> g	g
ING	<u>65.5</u> g	g
NIG	<u>65.5</u> g	g
NING	<u>65.5</u> g	g

Sample ID	<u>05IG042496</u>
Sample ID	<u>05ING042496</u>
Sample ID	<u>05NIG042496</u>
Sample ID	<u>05NING042496</u>

36NING-042596 AQ  
↑ doubled transects

05NING-042596 AQ  
↑ doubled transects

TO Site

G	<u>        </u> g	g
NG	<u>        </u> g	g

Sample ID	<u>        </u>
Sample ID	<u>        </u>

See reverse for comments

**Street Sediment Loads Assessment Project  
Sampling Field Note Form**

Date: 7/24/1 Weather \_\_\_\_\_

Sampling Team: B. Spencer \_\_\_\_\_

Intersection: 36<sup>th</sup> East of Old Seward, Sampled in error, Data

Track Out Site Present: Y /  N Submitted to lab Air Quality Site: Y /  N

<u>Y</u> <u>N</u>		<u>Comments</u>
<u>  </u> <input checked="" type="checkbox"/>	Photos taken of all transects	_____
<u>  </u> <input checked="" type="checkbox"/>	Photos taken from all photo stations	_____
<u>  </u> <input checked="" type="checkbox"/>	Trackout site sampled (if present)	_____
<u>  </u> <input checked="" type="checkbox"/>	Air quality samples collected (if appropriate)	_____
<input checked="" type="checkbox"/> <u>  </u>	All transects and strata sampled	_____

Vacuum Bag Tare Weights/Total Sample Weight

Site <u>36<sup>th</sup> E</u>	Transect width 20" ↓	IG <u>65.12 g</u> g	Sample ID <u>36EIG042496</u>
ING <u>64.75 g</u> g		Sample ID <u>36EING042496</u>	
NIG <u>69.5 g</u> g		Sample ID <u>36ENIG042496</u>	
NING <u>69.5 g</u> g		Sample ID <u>36ENING042496</u>	
Site _____			

<del>IG _____ g/ g</del>	<del>Sample ID _____</del>
<del>ING _____ g/ g</del>	<del>Sample ID _____</del>
<del>NIG _____ g/ g</del>	<del>Sample ID _____</del>
<del>NING _____ g/ g</del>	<del>Sample ID _____</del>

**TO Site**

<del>G _____ g/ g</del>	<del>Sample ID _____</del>
<del>NG _____ g/ g</del>	<del>Sample ID _____</del>

**Street Sediment Loads Assessment Project  
Sampling Field Note Form**

Date: 04/25/96 Weather: Clear 40°

Sampling Team: CR BS

Intersection: Diamond & King

Track Out Site Present: Y / (N) Air Quality Site: Y / (N)

Y	N		<u>Comments</u>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Photos taken of all transects	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Photos taken from all photo stations	<u>Samp 2+ weeks ago</u>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Trackout site sampled (if present)	<u>4/5/96</u>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Air quality samples collected (if appropriate)	<u>@ 14/12/96</u>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	All transects and strata sampled	

Vacuum Bag Tare Weights/Total Sample Weight

Site	IG	ING	NIG	NING	Transsect width	Sample ID
<u>King</u>	<u>66 g</u> / <u>g</u>	<u>g</u> / <u>g</u>	<u>g</u> / <u>g</u>	<u>g</u> / <u>g</u>	<u>10"</u>	<u>KIIG-042596</u>
	<u>g</u> / <u>g</u>	<u>g</u> / <u>g</u>	<u>g</u> / <u>g</u>	<u>g</u> / <u>g</u>		<u>KIING-042596 AQ</u>
	<u>g</u> / <u>g</u>	<u>g</u> / <u>g</u>	<u>g</u> / <u>g</u>	<u>g</u> / <u>g</u>		<u>KINIG-042596</u>
	<u>g</u> / <u>g</u>	<u>g</u> / <u>g</u>	<u>g</u> / <u>g</u>	<u>g</u> / <u>g</u>		<u>KINING-042596 AQ</u> 2 Transects only
<del>Site</del>	<del>g / g</del>	<del>g / g</del>	<del>g / g</del>	<del>g / g</del>		<del>Sample ID</del>
<del>IG</del>	<del>g / g</del>	<del>g / g</del>	<del>g / g</del>	<del>g / g</del>		<del>Sample ID</del>
<del>ING</del>	<del>g / g</del>	<del>g / g</del>	<del>g / g</del>	<del>g / g</del>		<del>Sample ID</del>
<del>NIG</del>	<del>g / g</del>	<del>g / g</del>	<del>g / g</del>	<del>g / g</del>		<del>Sample ID</del>
<del>NING</del>	<del>g / g</del>	<del>g / g</del>	<del>g / g</del>	<del>g / g</del>		<del>Sample ID</del>
<b>TO Site</b>						
G	<u>g</u> / <u>g</u>	<u>g</u> / <u>g</u>	<u>g</u> / <u>g</u>	<u>g</u> / <u>g</u>		Sample ID
NG	<u>g</u> / <u>g</u>	<u>g</u> / <u>g</u>	<u>g</u> / <u>g</u>	<u>g</u> / <u>g</u>		Sample ID

**Street Sediment Loads Assessment Project  
Sampling Field Note Form**

Date: 4/25/96 Weather 50°F Overcast

Sampling Team: Bill Spencer 1

Intersection: 15<sup>th</sup> & Colombine

Track Out Site Present: Y / N

Air Quality Site: (Y) N

Y N

Comments

- Photos taken of all transects Swept last week
- Photos taken from all photo stations Sweep smear st. 11
- A Trackout site sampled (if present) very evident 4/19/96
- Air quality samples collected (if appropriate) (CR)
- All transects and strata sampled

Vacuum Bag Tare Weights/Total Sample Weight

Site	IG	ING	NIG	NING	Transect width	Sample ID
<u>15<sup>th</sup></u>	<u>66 g</u> g	<u>  </u> g	<u>  </u> g	<u>  </u> g	<u>20</u>	<u>ISA IG 042596</u>
	<u>  </u> g	<u>  </u> g	<u>  </u> g	<u>  </u> g	<u>10</u>	<u>  </u> ING
	<u>  </u> g	<u>  </u> g	<u>  </u> g	<u>  </u> g	<u>20</u>	<u>  </u> NIG
	<u>  </u> g	<u>  </u> g	<u>  </u> g	<u>  </u> g	<u>10</u>	<u>  </u> NING

completed 4/25

+ AQ 2 transects only 5, 50

+ AQ 2 transects

Site	IG	ING	NIG	NING	Transect width	Sample ID
<u>Colombine</u>	<u>66 g</u> g	<u>  </u> g	<u>  </u> g	<u>  </u> g	<u>10</u>	<u>COL IG 042596</u>
	<u>  </u> g	<u>  </u> g	<u>  </u> g	<u>  </u> g	<u>10</u>	<u>  </u> COL ING
	<u>  </u> g	<u>  </u> g	<u>  </u> g	<u>  </u> g	<u>10</u>	<u>  </u> COL NIG
	<u>  </u> g	<u>  </u> g	<u>  </u> g	<u>  </u> g	<u>10</u>	<u>  </u> COL NING

(AQ 2 transects)

(AQ 2 transects)

**TO Site**

G	<u>  </u> g	<u>  </u> g	Sample ID	<u>  </u>
NG	<u>  </u> g	<u>  </u> g	Sample ID	<u>  </u>

**Street Sediment Loads Assessment Project  
Sampling Field Note Form**

Date: 4/26/96 Weather 45° Partly Cloudy

Sampling Team: Bill Spencer 1

Intersection: 15<sup>th</sup> + E

Track Out Site Present: Y / (N) Air Quality Site: Y / (N)

Y	N		<u>Comments</u>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Photos taken of all transects	_____
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Photos taken from all photo stations	_____
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Trackout site sampled (if present)	_____
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Air quality samples collected (if appropriate)	_____
<input checked="" type="checkbox"/>	<input type="checkbox"/>	All transects and strata sampled	_____

Vacuum Bag Tare Weights/Total Sample Weight

Site	Tran. width	IG	ING	NIG	NING	Sample ID
<u>15<sup>th</sup></u>		<u>66 g/ g</u> 10"	<u>g/ g</u> 20"	<u>g/ g</u> 10"	<u>g/ g</u> 20"	<u>15IG 04 2596</u>
						<u>15ING 04 2596</u>
						<u>15NIG 04 2696</u>
						<u>15NING 04 2596</u>

Sample bags were labeled for night sampling on the 25<sup>th</sup> - sampling discontinued and done on the 26<sup>th</sup>  
↓  
Note different date on this bag

Site	IG	ING	NIG	NING	Sample ID
<u>E 5<sup>th</sup></u>	<u>g/ g</u> 10"	<u>g/ g</u> 20"	<u>g/ g</u> 10"	<u>g/ g</u> 20"	<u>EIG 04 2596</u>
					<u>EING 04 2596</u>
					<u>ENIG 04 2596</u>
					<u>ENING 04 2596</u>

**TO Site**

G	<del>g/ g</del>	Sample ID	<del>_____</del>
NG	<del>g/ g</del>	Sample ID	<del>_____</del>



**Street Sediment Loads Assessment Project  
Sampling Field Note Form**

Date: 4/26/96 Weather: 50°F Sunny

Sampling Team: Bill Spencer

Intersection: 12<sup>th</sup> & N

Track Out Site Present: Y / N

Air Quality Site: Y / N

- |                                     |  |                 |
|-------------------------------------|--|-----------------|
| <u>Y</u> <u>N</u>                   |  | <u>Comments</u> |
| <input checked="" type="checkbox"/> | Photos taken of all transects                  | _____           |
| <input checked="" type="checkbox"/> | Photos taken from all photo stations           | _____           |
| <u>N/A</u>                          | Trackout site sampled (if present)             | _____           |
| <u>N/A</u>                          | Air quality samples collected (if appropriate) | _____           |
| <input checked="" type="checkbox"/> | All transects and strata sampled               | _____           |

*Has been 2+ weeks since last sweep*

Vacuum Bag Tare Weights/Total Sample Weight

Site <u>12<sup>th</sup></u>	<i>trans. width</i>	
IG <u>70.5g</u> g	<u>10</u>	Sample ID <u>12IG042696</u>
ING _____ g	↓	Sample ID <u>12ING042696</u>
NIG _____ g	↓	Sample ID <u>12NIG042696</u>
NING <u>✓</u> g	↓	Sample ID <u>12NING042696</u>

*estimate  
4/10/96  
CP 4/19/96  
NO  
4/15 CP  
12/2/96*

*Test large flap bag*

Site <u>N</u>	<u>10"</u>	
IG <u>70.5g</u> g	↓	Sample ID <u>NIG042696</u>
ING _____ g	↓	Sample ID <u>NING042696</u>
NIG _____ g	↓	Sample ID <u>NNIXG042696</u>
NING <u>✓</u> g	↓	Sample ID <u>NNING042696</u>

**TO Site**

G _____ g	Sample ID _____
NG _____ g	Sample ID _____

**Street Sediment Loads Assessment Project  
Sampling Field Note Form**

Date: 05/22/96 Weather 50°F Partly, Cloudy, Light wind

Sampling Team: Bill Spencer / \_\_\_\_\_

Intersection: 21<sup>st</sup> Ave + Blueberry

Track Out Site Present: Y / (N)

Air Quality Site: Y / (N)

Y \_\_\_ N

Comments

- \_\_\_ Photos taken of all transects \_\_\_\_\_
- \_\_\_ Photos taken from all photo stations \_\_\_\_\_
- N/A \_\_\_ Trackout site sampled (if present) \_\_\_\_\_
- \_\_\_  Air quality samples collected (if appropriate) \_\_\_\_\_
- \_\_\_ All transects and strata sampled \_\_\_\_\_

Vacuum Bag Tare Weights/Total Sample Weight

Site <u>21st Ave</u>	<u>trans width</u>			<u>Transect length</u>
IG <u>64.43 g</u>	<u>g</u>	<u>10'</u>	Sample ID <u>21IG052296</u>	<u>22'</u>
ING <u>64.77 g</u>	<u>g</u>	↓	Sample ID <u>21ING052296</u>	<u>173'</u>
NIG <u>64.46 g</u>	<u>g</u>		Sample ID <u>21NIG052296</u>	<u>44'</u>
NING <u>70.24 g</u>	<u>g</u>	↓	Sample ID <u>21NING052296</u>	<u>348'</u>

Site \_\_\_\_\_

IG \_\_\_\_\_ g/ \_\_\_\_\_ g Sample ID \_\_\_\_\_

ING \_\_\_\_\_ g/ \_\_\_\_\_ g Sample ID \_\_\_\_\_

NIG \_\_\_\_\_ g/ \_\_\_\_\_ g Sample ID \_\_\_\_\_

NING \_\_\_\_\_ g/ \_\_\_\_\_ g Sample ID \_\_\_\_\_

**TO Site**

G \_\_\_\_\_ g/ \_\_\_\_\_ g Sample ID \_\_\_\_\_

NG \_\_\_\_\_ g/ \_\_\_\_\_ g Sample ID \_\_\_\_\_

**Street Sediment Loads Assessment Project  
Sampling Field Note Form**

Date: 5/30/96 Weather Clear 55°F Sweep Monday Night  
5/27

Sampling Team: B. Spence / C. Brown

Intersection: Dowling + Old Seward

Track Out Site Present: Y /  N Air Quality Site:  Y / N

Y N

Comments on back →

- Photos taken of all transects \_\_\_\_\_
- Photos taken from all photo stations \_\_\_\_\_
- Trackout site sampled (if present) \_\_\_\_\_
- Air quality samples collected (if appropriate) \_\_\_\_\_
- All transects and strata sampled \_\_\_\_\_

Vacuum Bag Tare Weights/Total Sample Weight

Site	<u>OS @ Dowling</u>	width	Sample ID	Transect length
IG	<u>    </u> g / <u>    </u> g	10"	<u>OSDIG-053096</u>	20
ING	<u>71.05</u> g / <u>    </u> g	10"	<u>05ING-053096</u>	AQ all 13 transects
NIG	<u>70.05</u> g / <u>    </u> g	10"	<u>05NIG-053096</u>	26'
NING	<u>70.47</u> g / <u>    </u> g	10"	<u>05NING-053096</u>	AQ 2 transects only 200 + 150

Site \_\_\_\_\_

IG	<u>    </u> g / <u>    </u> g	Sample ID	_____
ING	<u>    </u> g / <u>    </u> g	Sample ID	_____
NIG	<u>    </u> g / <u>    </u> g	Sample ID	_____
NING	<u>    </u> g / <u>    </u> g	Sample ID	_____

TO Site

G	<u>    </u> g / <u>    </u> g	Sample ID	_____
NG	<u>    </u> g / <u>    </u> g	Sample ID	_____

**Street Sediment Loads Assessment Project  
Sampling Field Note Form**

Date: 7/8/96 Weather: Overcast 65°F

Sampling Team: B. Spencer

Intersection: 12 + N

Track Out Site Present: Y  N

Air Quality Site: Y  N

Y  N

Comments

- Photos taken of all transects \_\_\_\_\_
- Photos taken from all photo stations \_\_\_\_\_
- N/A Trackout site sampled (if present) \_\_\_\_\_
- N/A Air quality samples collected (if appropriate) \_\_\_\_\_
- All transects and strata sampled \_\_\_\_\_

Vacuum Bag Tare Weights/Total Sample Weight

Site 12<sup>th</sup> Transect width 10" (Head, 8.5") 10"  
 IG 69.87g g Sample ID 12IG070896  
 ING 64.55g g Sample ID 12ING070896  
 NIG 69.77g g Sample ID 12NIG070896  
 NING 67.28g g Sample ID 12NING070896

Site N 10"  
 IG 67.18g g Sample ID NIG070896  
 ING 66.55g g Sample ID NING070896  
 NIG 66.40g g Sample ID NNIG070896  
 NING 67.80g g Sample ID NNING070896

**TO Site**

G ~~g~~ g Sample ID ~~\_\_\_\_\_~~  
 NG ~~g~~ g Sample ID ~~\_\_\_\_\_~~

**Street Sediment Loads Assessment Project  
Sampling Field Note Form**

Date: 7/9/96 Weather Partly Cloudy, 65°F

Sampling Team: B. Spencer

Intersection: 13<sup>th</sup> & Karluck

Track Out Site Present: (Y) N

Air Quality Site: Y / N

Y N

- Photos taken of all transects
- Photos taken from all photo stations
- NA Trackout site sampled (if present)
- NA Air quality samples collected (if appropriate)
- All transects and strata sampled

Comments  
*got all of Karluck + INTTS on 13<sup>th</sup> - ran out of film*  
Streets have been swept within last week, lots of areas missed due to parked cars.  
TO Sampled on 8/8  
*est 7/2/96 @ 11/15/96*

Vacuum Bag Tare Weights/Total Sample Weight

Site 13<sup>th</sup>

IG	<u>67.15g</u>	g	10"	Sample ID	<u>13IG070996</u>
ING	<u>68.24g</u>	g		Sample ID	<u>13ING</u>
NIG	<u>66.66g</u>	g		Sample ID	<u>13NIG</u>
NING	<u>65.54g</u>	g		Sample ID	<u>13NING</u>

Site Karluck

IG	<u>65.22g</u>	g		Sample ID	<u>KAIG</u>
ING	<u>66.98g</u>	g		Sample ID	<u>KAING</u>
NIG	<u>66.83g</u>	g		Sample ID	<u>KANIG</u>
NING	<u>68.24g</u>	g		Sample ID	<u>KANING</u>

**TO Site**

G	<u>    </u>	g		Sample ID	<u>    </u>
NG	<u>    </u>	g		Sample ID	<u>    </u>

**Street Sediment Loads Assessment Project  
Sampling Field Note Form**

Date: 7/16/96 Weather Clear 50°F

Sampling Team: B. Spencer

Intersection: Diamond & King

Track Out Site Present: Y /  N

Air Quality Site: Y /  N

Y N

Comments

- Photos taken of all transects
- Photos taken from all photo stations
- Trackout site sampled (if present)
- Air quality samples collected (if appropriate)
- All transects and strata sampled

Vacuum Bag Tare Weights/Total Sample Weight

Site Diamond

IG	<u>66.25g</u> g	10" ↓	Sample ID	<u>DMIG 071696</u>	20'
ING	<u>68.57g</u> g		Sample ID	<u>ING</u>	
NIG	<u>66.59g</u> g		Sample ID	<u>NIG</u>	24'
NING	<u>66.68g</u> g		Sample ID	<u>NING</u>	

Site King

IG	<u>66.42g</u> g	10" ↓	Sample ID	<u>KITG 071696</u>	20'
ING	<u>66.66g</u> g		Sample ID	<u>KING 071696</u>	
NIG	<u>66.48g</u> g		Sample ID	<u>NIG</u>	12
NING	<u>65.38g</u> g		Sample ID	<u>NING</u>	

**TO Site**

G W/A g Sample ID \_\_\_\_\_

NG W/A g Sample ID 7/10/96 @ 11/15/96

Diamond swept on previous week, Dis. Karri-son Fri-Sun  
one gutter not swept all others pretty clean

**Street Sediment Loads Assessment Project  
Sampling Field Note Form**

Date: 7/16/96 Weather: 45°F Clear

Sampling Team: B. Spencer

Intersection: N.S. & 36th

Track Out Site Present: Y /  N Air Quality Site: Y /  N

Y  N  Comments

Photos taken of all transects \_\_\_\_\_

Photos taken from all photo stations \_\_\_\_\_

Trackout site sampled (if present) \_\_\_\_\_

Air quality samples collected (if appropriate) \_\_\_\_\_

All transects and strata sampled \_\_\_\_\_

Vacuum Bag Tare Weights/Total Sample Weight

Site New Seward width: \_\_\_\_\_

IG	<u>67.21g</u>	g	10"	Sample ID	<u>NS IG 071696</u>	34'	- sampled 7 gastic. 27 over side -50 - 200	
ING	<u>66.55g</u>	g	↓	Sample ID	<u>ING</u>	-		
NIG	<u>66.67g</u>	g		Sample ID	<u>NIG</u>			30'
NING	<u>66.75g</u>	g		Sample ID	<u>NING</u>			

Site 36th

IG	<u>66.34g</u>	g	10"	Sample ID	<u>36B IG 071596</u>	20'	
ING	<u>65.30g</u>	g	↓	Sample ID	<u>ING</u>		
NIG	<u>66.21g</u>	g		Sample ID	<u>NIG</u>		24'
NING	<u>66.25g</u>	g		20"	Sample ID		<u>NING</u>

**TO Site**

G	_____g	g	Sample ID	_____	rotor, m. working S. of 36th on N.S. course Sediment spilled into S.W. corner of intersection.
NG	_____g	g	Sample ID	_____	

**Street Sediment Loads Assessment Project  
Sampling Field Note Form**

Date: 7/17/96 Weather: 45° Partly Cloudy

Sampling Team: B. Spencer

Intersection: OS @ Dowling

Track Out Site Present: Y /  N Air Quality Site:  Y N

Y <input type="checkbox"/> N <input type="checkbox"/>		<u>Comments</u>
<input checked="" type="checkbox"/>	Photos taken of all transects	_____
<input checked="" type="checkbox"/>	Photos taken from all photo stations	_____
<u>NA</u>	Trackout site sampled (if present)	_____
<input checked="" type="checkbox"/>	Air quality samples collected (if appropriate)	_____
<input type="checkbox"/>	<input checked="" type="checkbox"/> All transects and strata sampled	_____

Vacuum Bag Tare Weights/Total Sample Weight

Site <u>OS</u>	width	
IG <u>65.25</u> g	w"	Sample ID
ING <u>64.80</u> g	↓	Sample ID
NIG <u>65.04</u> g	↓	Sample ID
NING <u>65.26</u> g	↓	Sample ID

*Has not been swept since spring may be an unswept area. Sweepers stop at Dowling*

OSDIG071796

ING	+AQ
NIG	
NING	+AQ

*⊗ These samples not on LOC, but results posted apparently not collected  
~~WVA 9-23-86~~*

Site _____		
IG _____ g		Sample ID _____
ING _____ g		Sample ID _____
NIG _____ g		Sample ID _____
NING _____ g		Sample ID _____

**TO Site**

G _____ g	Sample ID _____
NG _____ g	Sample ID _____



**Street Sediment Loads Assessment Project  
Sampling Field Note Form**

Date: 7/17/96 Weather: 50°F Partly Cloudy

Sampling Team: B. Spencer

Intersection: OS & 36<sup>th</sup>

Track Out Site Present: Y / (N)

Air Quality Site: (Y) / N

Y N

Comments

Photos taken of all transects

Photos taken from all photo stations

NA Trackout site sampled (if present)

Air quality samples collected (if appropriate)

All transects and strata sampled

*est 7/3/96*  
- Swept 2 weeks ago  
- 3 days since big storm

Vacuum Bag Tare Weights/Total Sample Weight

Site	IG	ING	NIG	NING	Tran width	Sample ID	Tran length
<u>OS</u>	<u>65.59</u> g	<u>65.82</u> g	<u>65.72</u> g	<u>65.05</u> g	<u>10"</u>	<u>OS IG 071796</u>	<u>20'</u>
					<u>20"</u>	<u>ING</u>	<u>+ AQ 20'</u>
					<u>10"</u>	<u>NIG</u>	<u>24'</u>
					<u>20"</u>	<u>NING</u>	<u>+ AQ 20'</u>
<u>36<sup>th</sup></u>	<u>64.77</u> g	<u>65.13</u> g	<u>65.00</u> g	<u>65.31</u> g	<u>10"</u>	<u>36 IG 071796</u>	<u>20'</u>
					<u>20"</u>	<u>ING</u>	<u>+ AQ 20'</u>
					<u>10"</u>	<u>NIG</u>	<u>24'</u>
					<u>20"</u>	<u>NING</u>	<u>+ AQ 20'</u>

**TO Site**

G          g /          g      Sample ID                                 

NG          g /          g      Sample ID

**Street Sediment Loads Assessment Project  
Sampling Field Note Form**

Date: 7/17/96 Weather: 50° Partly Cloudy

Sampling Team: B Spurr

Intersection: 5th & Reeve

Track Out Site Present: Y / (N)

Air Quality Site: Y / N

Y N

Comments

- Photos taken of all transects \_\_\_\_\_
- Photos taken from all photo stations \_\_\_\_\_
- Trackout site sampled (if present) \_\_\_\_\_
- Air quality samples collected (if appropriate) \_\_\_\_\_
- All transects and strata sampled \_\_\_\_\_

Vacuum Bag Tare Weights/Total Sample Weight

Site 5th

widk

IG 65.69g g

10"

Sample ID

5IG071796

ING 65.62g g

Sample ID

ING

NIG 65.59g g

Sample ID

NIG

NING 66.90g g

Sample ID

NING

Site Reeve

IG 64.97g g

Sample ID

RVIG071796

ING 66.29g g

Sample ID

ING

NIG 67.15g g

Sample ID

NIG

NING 66.35g g

Sample ID

NING

**TO Site**

G      g      g

Sample ID

NG      g      g

Sample ID

Recent Sweep ← 1 wk on 5th  
Sweep smear still visible in gutter  
est 7/12/96  
CR  
H/18/96

**Street Sediment Loads Assessment Project  
Sampling Field Note Form**

Date: 7/24/96 Weather: Overcast 55°F

Sampling Team: D. Spence

Intersection: DeSarr + Maldon

Track Out Site Present: Y / (N)

Air Quality Site: Y / (N)

est 7/22/96  
CR 11/19/96

Y	N		<u>Comments</u>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Photos taken of all transects	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Photos taken from all photo stations	<u>Swept about 2-3 days ago</u>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Trackout site sampled (if present)	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Air quality samples collected (if appropriate)	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	All transects and strata sampled	<u>Gutters only J.C.</u>

Vacuum Bag Tare Weights/Total Sample Weight

Site Maldon

IG	<u>68.62g</u>	g	width <u>10"</u>	Sample ID	<u>MULIG 072496</u>	Length <u>20'</u>
ING	_____	g		Sample ID	_____	
NIG	<u>68.72g</u>	g	<u>10'</u>	Sample ID	<u>MUL NIG 072496</u>	<u>24'</u>
NING	_____	g		Sample ID	_____	

Site DeSarr

IG	<u>68.79g</u>	g	<u>10"</u>	Sample ID	<u>DEBTIG 072496</u>	<u>22'</u>
ING	_____	g		Sample ID	_____	
NIG	<u>67.12g</u>	g	<u>10"</u>	Sample ID	<u>DEBNTIG 072496</u>	<u>24'</u>
NING	_____	g		Sample ID	_____	

TO Site

G	<del>_____</del>	g		Sample ID	<del>_____</del>
NG	<del>_____</del>	g		Sample ID	<del>_____</del>

**Street Sediment Loads Assessment Project  
Sampling Field Note Form**

Date: 7/24/96 Weather Overcast 50°F

Sampling Team: D. Spenn

Intersection: Iowa & Spanard

Track Out Site Present: Y  N

Air Quality Site: Y  N

Y N

Comments

- Photos taken of all transects \_\_\_\_\_
- Photos taken from all photo stations \_\_\_\_\_
- N/A Trackout site sampled (if present) \_\_\_\_\_
- N/A Air quality samples collected (if appropriate) \_\_\_\_\_
- All transects and strata sampled Autlor only

Vacuum Bag Tare Weights/Total Sample Weight

Site Spanard

IG	<u>68.56g</u>	g	<u>10"</u>	width	Sample ID	<u>SPIG 072496</u>	length
ING	_____	g			Sample ID	_____	
NIG	<u>67.82g</u>	g	<u>10"</u>		Sample ID	<u>SPNIG 072496</u>	
NING	_____	g			Sample ID	_____	

Site Iowa

IG	<u>67.44g</u>	g	<u>10"</u>		Sample ID	<u>IOWIG 072496</u>
ING	_____	g			Sample ID	_____
NIG	<u>67.30g</u>	g	<u>10"</u>		Sample ID	<u>IOWNIG 072496</u>
NING	_____	g			Sample ID	_____

**TO Site**

G	<del>_____</del>	g			Sample ID	<del>_____</del>
NG	<del>_____</del>	g			Sample ID	<del>_____</del>

**Street Sediment Loads Assessment Project  
Sampling Field Note Form**

Date: 7 RS-26/96

Intersection: 6<sup>th</sup> + A Weather Overcast 50°F

Sampling Team: B. Spencer / C. Brown

Track Out Site Present:  N, Air Quality Site: Y /  Gutter Only:  N

N Photos taken of all transects \_\_\_\_\_

N Photos taken from all photo stations \_\_\_\_\_

N Trackout site sampled (if present) \_\_\_\_\_

N Air quality samples collected (if appropriate) TO Area Only

N All transects and strata sampled \_\_\_\_\_

Site 6<sup>th</sup>

Vacuum Bag Tare Weights		Air Quality	Transect width / length
IG <u>68.50g</u>	Sample ID <u>6IG 072496</u>		<u>10" / 12'</u>
ING _____g	Sample ID _____		____ / ____
NIG <u>68.86g</u>	Sample ID <u>6NIG 072496</u>		<u>10" / 12'</u>
NING _____g	Sample ID _____		____ / ____

Site A

IG <u>67.52g</u>	Sample ID <u>1 AIG 072696</u>		<u>10" / 12'</u>
ING _____g	Sample ID _____		____ / ____
NIG <u>67.8g</u>	Sample ID <u>ANIG 072696</u>		<u>10" / 12'</u>
NING _____g	Sample ID _____		____ / ____

Track Out Site A

TOG <u>66.82g</u>	Sample ID <u>ATOG 072696</u>		<u>10" / 12'</u>
TONG <u>67.50g</u>	Sample ID <u>ATONG 072696 +AQ</u>		<u>10" / 41'</u>
NTOG <u>67.10g</u>	Sample ID <u>11 ANTOG 072696</u>		<u>10" / 12'</u>
NTONG <u>66.91g</u>	Sample ID <u>ANTONG 072696 1A0</u>		<u>10" / 41'</u>

TO Alley 67.31 ATOAlley 072696 +AQ 10"

**Street Sediment Loads Assessment Project  
Sampling Field Note Form**

Date: 7/26/96

Intersection: NLts & Denali Weather Overcast 45°F

Sampling Team: B. Spencer / C. Brown

Track Out Site Present: Y /  N, Air Quality Site: Y /  N, Gutter Only:  Y / N

Y N Photos taken of all transects \_\_\_\_\_

Y N Photos taken from all photo stations \_\_\_\_\_

Y N Trackout site sampled (if present) \_\_\_\_\_

Y N Air quality samples collected (if appropriate) \_\_\_\_\_

Y N All transects and strata sampled \_\_\_\_\_

Site Denali

Vacuum Bag Tare Weights		Air Quality	Transect width / length
IG <u>67.30</u> g	Sample ID <u>DenIG 072696</u>		<u>10" /</u>
ING _____ g	Sample ID _____		____ / ____
NIG <u>67.37</u> g	Sample ID <u>DENNIG 072696</u>		____ / ____
NING _____ g	Sample ID _____		____ / ____

Site NLTB

IG <u>67.09</u> g	Sample ID <u>NLTBIG 072696</u>		____ / ____
ING _____ g	Sample ID _____		____ / ____
NIG <u>67.68</u> g	Sample ID <u>NLTBNIG 072696</u>		____ / ____
NING _____ g	Sample ID _____		____ / ____

Track Out Site \_\_\_\_\_

TOG _____ g	Sample ID _____		____ / ____
TONG _____ g	Sample ID _____		____ / ____
NTOG _____ g	Sample ID _____		____ / ____
NTONG _____ g	Sample ID _____		____ / ____

**Street Sediment Loads Assessment Project  
Sampling Field Note Form**

Date: 07/26/96

Intersection: NH5 + Spencard Weather Overcast 45°F

Sampling Team: B. Spencer | C. Brown

Track Out Site Present: Y /  N Air Quality Site:  Y / N, Gutter Only: Y / N

N Photos taken of all transects \_\_\_\_\_

N Photos taken from all photo stations \_\_\_\_\_

N Trackout site sampled (if present) \_\_\_\_\_

N Air quality samples collected (if appropriate) \_\_\_\_\_

N All transects and strata sampled Transect 112 not sampled (adjust lengths according)

Site NH5

Vacuum Bag Tare Weights	Sample ID	Air Quality	Transect width / length
IG <u>67.43g</u>	<u>NL+IG 072696</u>		<u>10" / 14'</u>
ING <u>67.67g</u>	<u>ING</u>	<u>+AQ</u>	<u>10" / 48.3+88.6+24'</u>
NIG <u>66.89g</u>	<u>NIG</u>		<u>10" / 28'</u>
NING <u>67.30g</u>	<u>NING</u>	<u>+AQ</u>	<u>10" / 19'</u>
			<u>(44.3) + (2)</u>

} Transect 112 not sampled

Site \_\_\_\_\_

IG _____g	Sample ID _____	_____	____/____
ING _____g	Sample ID _____	_____	____/____
NIG _____g	Sample ID _____	_____	____/____
NING _____g	Sample ID _____	_____	____/____

Track Out Site \_\_\_\_\_

TOG _____g	Sample ID _____	_____	____/____
TONG _____g	Sample ID _____	_____	____/____
NTOG _____g	Sample ID _____	_____	____/____
NTONG _____g	Sample ID _____	_____	____/____

**Street Sediment Loads Assessment Project  
Sampling Field Note Form**

Date: 08/06/96

Intersection: 15<sup>th</sup> + Columbine Weather Clear 50°F light wind

Sampling Team: Bill Spence - 1

Track Out Site Present:  N, Air Quality Site:  N, Gutter Only: Y /

N Photos taken of all transects \_\_\_\_\_

N Photos taken from all photo stations except lot 150, 200, NE 8/8 B.S.

N Trackout site sampled (if present) \_\_\_\_\_

N Air quality samples collected (if appropriate) \_\_\_\_\_

N All transects and strata sampled \_\_\_\_\_

Site 15<sup>th</sup>

Vacuum Bag Tare Weights Air Quality Transect width / length

IG 66.10g Sample ID ISAIG080696 10" 1

ING 66.39g Sample ID SAING080696 + AQ 1

NIG 66.12g Sample ID SANIG080696 1

NING 65.80g Sample ID SANING080696 + AQ 1

AQ 2 Transects  
5, 50

AQ 2 Transects  
102, 150

Site Columbine

IG 65.43g Sample ID COLIG080696 1

ING 67.16g Sample ID COLING080696 + AQ 1

NIG 65.40g Sample ID COLNIG080696 1

NING 65.85g Sample ID COLNING080696 + AQ 1

3 tran

3 tran

Track Out Site 15

TOG 66.52g Sample ID ISATOG080696 1

TONG 66.28g Sample ID ISATONG 1 AQ 1

NTOG 66.25g Sample ID ISANTOG 1

NTONG 66.28g Sample ID ISANTONG 1 AQ 1

1.5 transects

3 transects

TO Alley 66.37 Sample ID ISATOA16,000696 + AQ 1

Completed  
08/06

Sample  
8/7



**Street Sediment Loads Assessment Project  
Sampling Field Note Form**

Date: 8/6/96

Intersection: 16<sup>th</sup> + Columbine Weather Clear 48°F

Sampling Team: B. Spencer / \_\_\_\_\_

Track Out Site Present:  / N, Air Quality Site: Y /  Gutter Only: Y /

N Photos taken of all transects photos taken 8/8

N Photos taken from all photo stations \_\_\_\_\_

N Trackout site sampled (if present) \_\_\_\_\_

N Air quality samples collected (if appropriate) \_\_\_\_\_

N All transects and strata sampled \_\_\_\_\_

Site 16<sup>th</sup>

Vacuum Bag Tare Weights	Sample ID	Air Quality	Transect width / length
IG <u>66.72</u> g	Sample ID <u>16IG 080596</u>		<u>10" / 1</u>
ING <u>66.85</u> g	Sample ID <u>16 TNG</u>		<u>1</u>
NIG <u>66.51</u> g	Sample ID <u>16 NIG</u>		<u>1</u>
NING <u>66.42</u> g	Sample ID <u>16 NING</u>		<u>1</u>

Site Columbine

IG <u>64.76</u> g	Sample ID <u>COIG 080696</u>		<u>1</u>
ING <u>64.96</u> g	Sample ID <u>COING</u>		<u>1</u>
NIG <u>64.88</u> g	Sample ID <u>CONIG</u>		<u>1</u>
NING <u>66.97</u> g	Sample ID <u>CONING</u>		<u>1</u>

Track Out Site 16<sup>th</sup> TO

TOG <u>66.81</u> g	Sample ID <u>16TOG 080676</u>		<u>1 / 16'</u>
TONG <u>66.71</u> g	Sample ID <u>16TONG</u>		<u>1</u>
NTOG <u>66.50</u> g	Sample ID <u>16NTOG</u>		<u>1</u>
NTONG <u>66.65</u> g	Sample ID <u>16NTONG</u>		<u>1</u>

TO Alley 65.15

16TOAlly 080696

**Street Sediment Loads Assessment Project  
Sampling Field Note Form**

Date: 8 / 7 / 96

Intersection: 15<sup>th</sup> + E Weather: Clear 60°F

Sampling Team: B. Spencer I. C. West

Track Out Site Present: Y /  N Air Quality Site: Y /  N Gutter Only: Y /  N

N Photos taken of all transects Took loads mostly at the gutter, where the dirt was

N Photos taken from all photo stations \_\_\_\_\_

~~Y~~ Trackout site sampled (if present) \_\_\_\_\_

~~Y~~ Air quality samples collected (if appropriate) \_\_\_\_\_

N All transects and strata sampled \_\_\_\_\_

Site 15

Vacuum Bag Tare Weights		Air Quality	Transect width / length
IG <u>64.7g</u>	Sample ID <u>15IG080796</u>		<u>10" / 1</u>
ING <u>65.31g</u>	Sample ID <u>15ING</u>		<u>1</u>
NIG <u>65.30g</u>	Sample ID <u>15NIG</u>		<u>1</u>
NING <u>66.58g</u>	Sample ID <u>15NING</u>		<u>1</u>

Site E

IG <u>65.35g</u>	Sample ID <u>EIG080796</u>		<u>10" / 1</u>
ING <u>65.4g</u>	Sample ID <u>EING</u>		<u>1</u>
NIG <u>66.55g</u>	Sample ID <u>ENIG</u>		<u>1</u>
NING <u>65.16g</u>	Sample ID <u>ENING</u>		<u>1</u>

Track Out Site \_\_\_\_\_

TOG _____g	Sample ID _____		<u>1</u>
TONG _____g	Sample ID _____		<u>1</u>
NTOG _____g	Sample ID _____		<u>1</u>
NTONG _____g	Sample ID _____		<u>1</u>

**Street Sediment Loads Assessment Project  
Sampling Field Note Form**

Date: 8/21/96

Intersection: 20<sup>th</sup> + Lk Otis Weather Clear 65°F

Sampling Team: D. Spencer I. C. West

Track Out Site Present: Y /  N, Air Quality Site: Y /  N Gutter Only:  Y / N

N Photos taken of all transects \_\_\_\_\_

N Photos taken from all photo stations \_\_\_\_\_

~~N/A~~ Trackout site sampled (if present) \_\_\_\_\_

~~N/A~~ Air quality samples collected (if appropriate) \_\_\_\_\_

N All transects and strata sampled \_\_\_\_\_

Site 20<sup>th</sup>

<u>Vacuum Bag Tare Weights</u>		Air Quality	Transect width / length
IG <u>65.59g</u>	Sample ID <u>20IG 080796</u>		<u>10' x 12'</u>
ING _____g	Sample ID _____		<u>1</u>
NIG <u>64.80g</u>	Sample ID <u>20NIG 080796</u>		<u>10' x 12'</u>
NING _____g	Sample ID _____		<u>1</u>

Site Lk Otis

IG <u>66.64g</u>	Sample ID <u>LkOtIG 080796</u>		<u>10' x 12'</u>
ING _____g	Sample ID _____		<u>1</u>
NIG <u>66.66g</u>	Sample ID <u>LkOtNIG 080796</u>		<u>10' x 12'</u>
NING _____g	Sample ID _____		<u>1</u>

**Track Out Site** \_\_\_\_\_

TOG _____g	Sample ID _____		<u>1</u>
TONG _____g	Sample ID _____		<u>1</u>
NTOG _____g	Sample ID _____		<u>1</u>
NTONG _____g	Sample ID _____		<u>1</u>

**Street Sediment Loads Assessment Project  
Sampling Field Note Form**

Date: 8 / 8 / 96

Intersection: 13<sup>th</sup> + Karluk Weather 50°F overcast

Sampling Team: B. Spencer / \_\_\_\_\_

Track Out Site Present:  N, Air Quality Site: Y / N, Gutter Only: Y / N

N Photos taken of all transects \_\_\_\_\_

N Photos taken from all photo stations Track out + Non Track out

N Trackout site sampled (if present) \_\_\_\_\_

N Air quality samples collected (if appropriate) \_\_\_\_\_

N All transects and strata sampled Track out + Non Trackout

Site \_\_\_\_\_

Vacuum Bag Tare Weights		Air Quality	Transect width / length
IG _____ g	Sample ID _____		____ / ____
ING _____ g	Sample ID _____		____ / ____
NIG _____ g	Sample ID _____		____ / ____
NING _____ g	Sample ID _____		____ / ____

Site \_\_\_\_\_

IG _____ g	Sample ID _____		____ / ____
ING _____ g	Sample ID _____		____ / ____
NIG _____ g	Sample ID _____		____ / ____
NING _____ g	Sample ID _____		____ / ____

Track Out Site 13<sup>th</sup>

TOG <u>66.90g</u>	Sample ID <u>13TOG 080896</u>		<u>10" / 1</u>
TONG <u>66.47g</u>	Sample ID <u>13TONG</u>	<u>10"</u>	<u>1</u>
NTOG <u>66.55g</u>	Sample ID <u>13NTOG</u>		<u>1</u>
NTONG <u>67.21g</u>	Sample ID <u>13NTONG</u>	<u>10"</u>	<u>1</u>
<u>TOAIG, 66.70</u>	<u>13TOAIG</u>	<u>10"</u>	<u>1</u>

**Street Sediment Loads Assessment Project  
Sampling Field Note Form**

Date: 8 / 8 / 96

Intersection: 9<sup>th</sup> + Karluk Weather Overcast 50°

Sampling Team: B. Spencer / \_\_\_\_\_

Track Out Site Present:  Y / N, Air Quality Site: Y /  N, Gutter Only: Y /  N

- Y N Photos taken of all transects \_\_\_\_\_
- Y N Photos taken from all photo stations \_\_\_\_\_
- Y N Trackout site sampled (if present) \_\_\_\_\_
- ~~Y~~ N Air quality samples collected (if appropriate) \_\_\_\_\_
- Y N All transects and strata sampled \_\_\_\_\_

Site Karluk

Vacuum Bag Tare Weights		Air Quality	Transect width / length
IG	<u>66.54g</u>	Sample ID <u>K0 IG 080896</u>	<u>10" / 1</u>
ING	<u>66.94g</u>	Sample ID <u>K0 ING</u>	<u>1</u>
NIG	<u>66.66g</u>	Sample ID <u>K0 NIG</u>	<u>1</u>
NING	<u>67.00g</u>	Sample ID <u>K0 NING</u>	<u>1</u>

Site 9<sup>th</sup>

IG	<u>66.60g</u>	Sample ID <u>9 IG 080896</u>	<u>1</u>
ING	<u>66.45g</u>	Sample ID <u>9 ING</u>	<u>1</u>
NIG	<u>66.72g</u>	Sample ID <u>9 NIG</u>	<u>1</u>
NING	<u>66.75g</u>	Sample ID <u>9 NING</u>	<u>1</u>

Track Out Site Karluk

TOG	<u>65.11g</u>	Sample ID <u>KBT0G 080896</u>	<u>1</u>
TONG	<u>65.05g</u>	Sample ID <u>K0 TONG</u>	<u>1</u>
NTOG	<u>66.52g</u>	Sample ID <u>K0 NTOG</u>	<u>1</u>
NTONG	<u>65.86g</u>	Sample ID <u>K0 NTONG</u>	<u>1</u>

~~TO Alley~~ 67.64

K0 TO Alley 080896

**Street Sediment Loads Assessment Project  
Sampling Field Note Form**

Date: 8 / 12 / 96

Intersection: 21<sup>st</sup> & Blueberry Weather partly Sunny 50°F

Sampling Team: D. Spencer / \_\_\_\_\_

Track Out Site Present: Y /  N Air Quality Site: Y /  N Gutter Only: Y /  N

N Photos taken of all transects \_\_\_\_\_

N Photos taken from all photo stations \_\_\_\_\_

~~Y~~  N Trackout site sampled (if present) \_\_\_\_\_

~~Y~~  N Air quality samples collected (if appropriate) \_\_\_\_\_

N All transects and strata sampled \_\_\_\_\_

Site 21<sup>st</sup> Ave

Vacuum Bag Tare Weights		Air Quality	Transect width / length
IG <u>66.05</u> g	Sample ID <u>21IG081296</u>	_____	<u>10" / 12' 22"</u>
ING <u>65.35</u> g	Sample ID <u>21ING081296</u>	_____	<u>" / 103"</u>
NIG <u>65.43</u> g	Sample ID <u>21NIG081296</u>	_____	<u>" / 44"</u>
NING <u>65.34</u> g	Sample ID <u>21NING081296</u>	_____	<u>" / 348"</u>

Site \_\_\_\_\_

IG _____ g	Sample ID _____	_____	_____ / _____
ING _____ g	Sample ID _____	_____	_____ / _____
NIG _____ g	Sample ID _____	_____	_____ / _____
NING _____ g	Sample ID _____	_____	_____ / _____

Track Out Site \_\_\_\_\_

TOG _____ g	Sample ID _____	_____	_____ / _____
TONG _____ g	Sample ID _____	_____	_____ / _____
NTOG _____ g	Sample ID _____	_____	_____ / _____
NTONG _____ g	Sample ID _____	_____	_____ / _____

Construction area has impacted area with sediments and wash from concrete operation.

## Round 1 Particle Size Distribution (Sieve Analysis) Plots

=====

GRAIN SIZE DISTRIBUTION TEST DATA

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Test No.: 1

Date: 4-29-95  
 Project No.: 1801.0441  
 Project: STREET SEDIMENT SAMPLING

-----

Sample Data

-----

Location of Sample: SIG032796  
 Sample Description: POORLY GRADED SAND WITH SILT  
 USCS Class: SP-SM                      Liquid limit:  
 AASHTO Class:                              Plasticity index:

-----

Notes

-----

Remarks:

Fig. No.: 6

-----

Mechanical Analysis Data

-----

	Initial	
Dry sample and tare=	1127.20	
Tare =	162.90	
Dry sample weight =	964.30	
Tare for cumulative weight retained=	228	
ave	Cumul. Wt.	Percent
	retained	finer
0.5 inches	228.00	100.0
0.375 inches	258.00	96.9
# 4	393.10	82.9
# 10	716.30	49.4
# 20	838.30	36.7
# 40	931.30	27.1
# 100	1082.10	11.4
# 140	1118.50	7.7
# 200	1137.50	5.7

-----

Fractional Components

-----

% + 75mm. = 0.0      % GRAVEL = 17.1      % SAND = 77.2  
 % FINES = 5.7

D85= 5.07    D60= 2.688    D50= 2.039  
 D30= 0.5064    D15= 0.19253    D10= 0.13167  
 Cc = 0.7244    Cu = 20.4174



GRAIN SIZE DISTRIBUTION TEST DATA

Test No.: 12

Date: 4-29-95  
 Project No.: 1801.0441  
 Project: STREET SEDIMENT SAMPLING

Sample Data

Location of Sample: 5ING032796  
 Sample Description: POORLY GRADED SAND  
 USCS Class: SP Liquid limit:  
 AASHTO Class: Plasticity index:

Notes

Remarks:

Fig. No.:

Mechanical Analysis Data

Initial  
 Dry sample and tare= 1481.10  
 Tare = 222.30  
 Dry sample weight = 1258.80  
 Tare for cumulative weight retained= 223.4

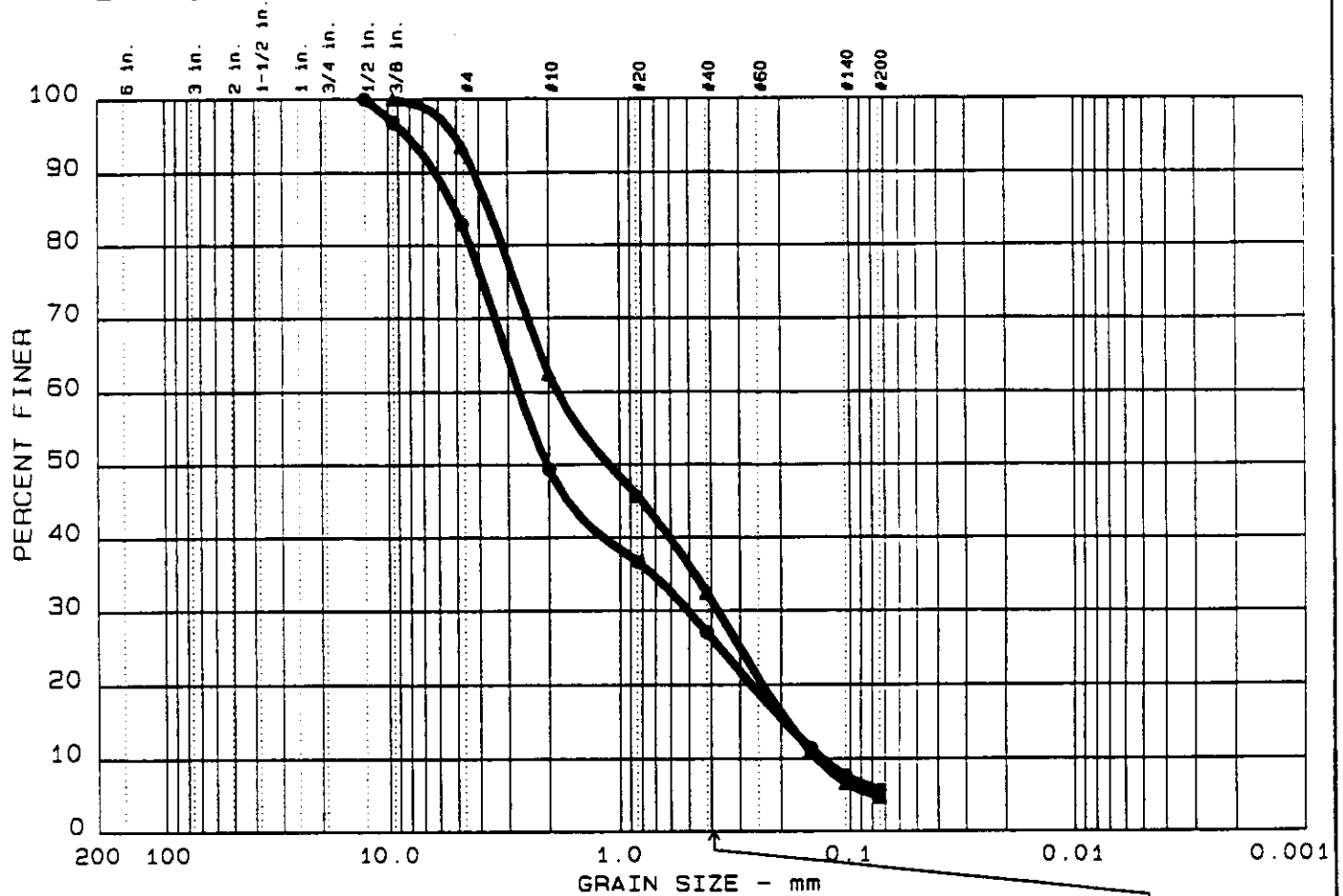
sieve	Cumul. Wt. retained	Percent finer
0.375 inches	223.40	100.0
# 4	304.70	93.5
# 10	694.90	62.5
# 20	907.20	45.7
# 40	1074.10	32.4
# 100	1345.00	10.9
# 140	1399.30	6.6
# 200	1421.40	4.8

Fractional Components

% + 75mm. = 0.0    % GRAVEL = 6.5    % SAND = 88.7  
 % FINES = 4.8

D85= 3.62    D60= 1.834    D50= 1.105  
 D30= 0.3745    D15= 0.18772    D10= 0.13916  
 Cc = 0.5495    Cu = 13.1826

# GRAIN SIZE DISTRIBUTION TEST REPORT



Test	%+75mm	% GRAVEL	% SAND	% SILT	% CLAY
● 1	0.0	17.1	77.2	5.7	
▲ 12	0.0	6.5	88.7	4.8	

LL	PI	$D_{85}$	$D_{60}$	$D_{50}$	$D_{30}$	$D_{15}$	$D_{10}$	$C_c$	$C_u$
		5.07	2.69	2.04	0.506	0.1925	0.1317	0.72	20.4
		3.62	1.83	1.11	0.375	0.1877	0.1392	0.55	13.2

MATERIAL DESCRIPTION	USCS	AASHTO
● POORLY GRADED SAND WITH SILT	SP-SM	
▲ POORLY GRADED SAND	SP	

Project No.: 1801.0441  
 Project: STREET SEDIMENT SAMPLING  
 ● Location: 5IG032796  
 ▲ Location: 5ING032796  
 Date: 4-29-95

Remarks:

Figure No. 6

GRAIN SIZE DISTRIBUTION TEST DATA

Test No.: 14

Date: 4-29-95  
 Project No.: 1801.0441  
 Project: STREET SEDIMENT SAMPLING

Sample Data

Location of Sample: 5NING032796  
 Sample Description: POORLY GRADED SAND  
 USCS Class: SP                      Liquid limit:  
 AASHTO Class:                      Plasticity index:

Notes

Remarks:

Fig. No.:

Mechanical Analysis Data

Initial  
 Dry sample and tare= 1522.10  
 Tare = 247.10  
 Dry sample weight = 1275.00  
 Tare for cumulative weight retained= 247.1

sieve	Cumul. Wt. retained	Percent finer
0.375 inches	247.10	100.0
# 4	333.20	93.2
# 10	683.30	65.8
# 20	923.50	46.9
# 40	1147.20	29.4
# 100	1415.80	8.3
# 140	1468.00	4.2
# 200	1492.10	2.4

Fractional Components

% + 75mm. = 0.0      % GRAVEL = 6.8      % SAND = 90.9  
 % FINES = 2.3

D85= 3.54    D60= 1.596    D50= 0.972  
 D30= 0.4290    D15= 0.22004    D10= 0.16501  
 Cc = 0.6990    Cu = 9.6716

GRAIN SIZE DISTRIBUTION TEST DATA

Test No.: 13

Date: 4-29-95  
 Project No.: 1801.0441  
 Project: STREET SEDIMENT SAMPLING

Sample Data

Location of Sample: 5NIG032796  
 Sample Description: POORLY GRADED SAND WITH SILT  
 USCS Class: SP-SM                      Liquid limit:  
 AASHTO Class:                          Plasticity index:

Notes

Remarks:

Fig. No.: 7

Mechanical Analysis Data

Initial  
 Dry sample and tare = 1257.60  
 Tare = 226.40  
 Dry sample weight = 1031.20  
 Tare for cumulative weight retained = 228

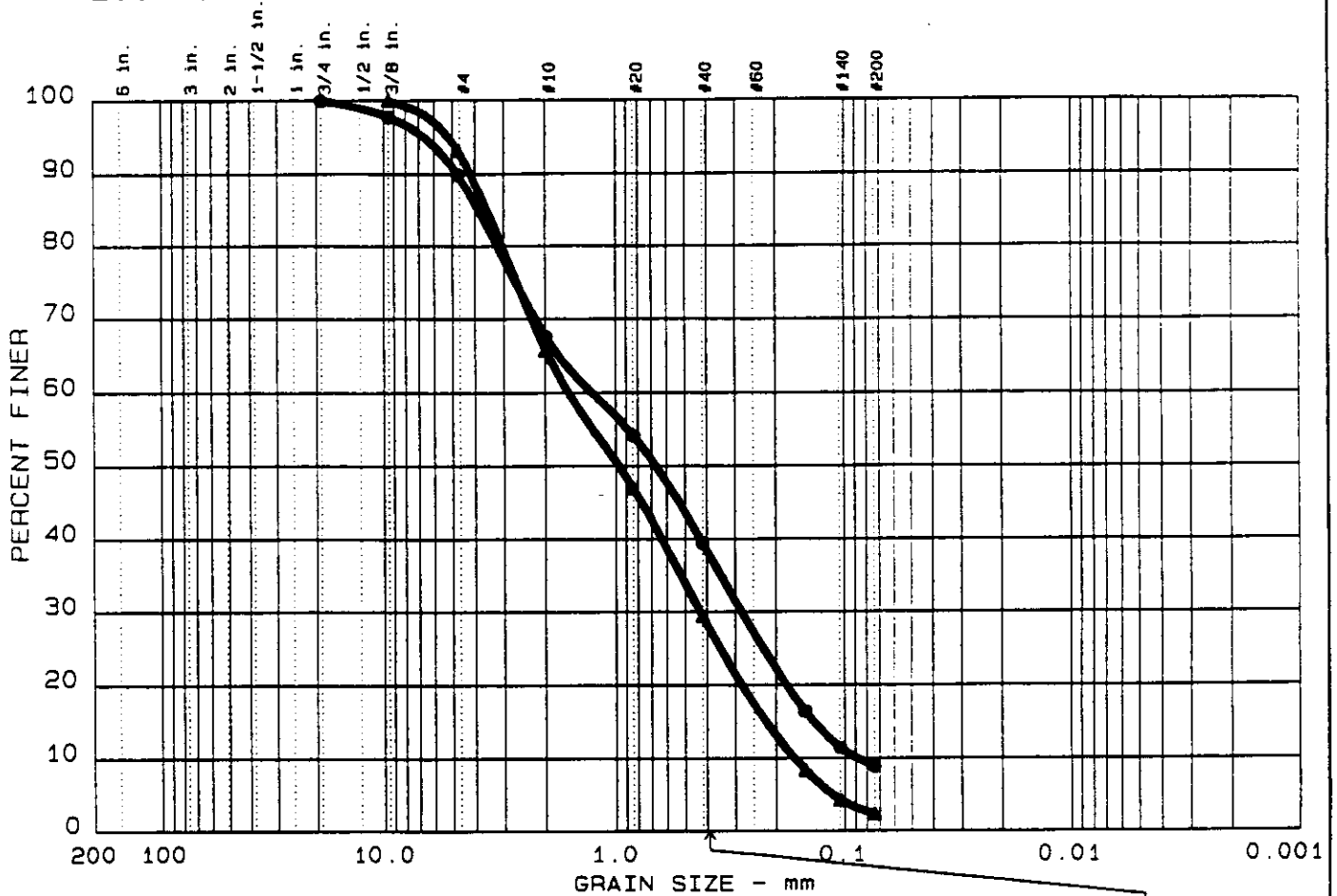
Size	Cumul. Wt. retained	Percent finer
0.75 inches	228.00	100.0
0.375 inches	250.80	97.8
# 4	331.90	89.9
# 10	561.70	67.6
# 20	700.70	54.2
# 40	851.70	39.5
# 100	1089.80	16.4
# 140	1141.50	11.4
# 200	1168.00	8.8

Fractional Components

% + 75mm. = 0.0      % GRAVEL = 10.1      % SAND = 81.1  
 % FINES = 8.8

D85 = 3.85    D60 = 1.259    D50 = 0.668  
 D30 = 0.2818    D15 = 0.13646    D10 = 0.08810  
 Cc = 0.7161    Cu = 14.2889

# GRAIN SIZE DISTRIBUTION TEST REPORT



Test	%+75mm	% GRAVEL	% SAND	% SILT	% CLAY
● 13	0.0	10.1	81.1	8.8	
▲ 14	0.0	6.8	90.9	2.3	

	LL	PI	D <sub>85</sub>	D <sub>60</sub>	D <sub>50</sub>	D <sub>30</sub>	D <sub>15</sub>	D <sub>10</sub>	C <sub>c</sub>	C <sub>u</sub>
●			3.85	1.26	0.67	0.282	0.1365	0.0881	0.72	14.3
▲			3.54	1.60	0.97	0.429	0.2200	0.1650	0.70	9.7

MATERIAL DESCRIPTION	USCS	AASHTO
● POORLY GRADED SAND WITH SILT	SP-SM	
▲ POORLY GRADED SAND	SP	

Project No.: 1801.0441  
 Project: STREET SEDIMENT SAMPLING  
 ● Location: 5NIG032796  
 ▲ Location: 5NING032796  
 Date: 4-29-95  
 GRAIN SIZE DISTRIBUTION TEST REPORT  
**RODNEY P. KINNEY ASSOCIATES**

Remarks:

Figure No. 7

GRAIN SIZE DISTRIBUTION TEST DATA

Test No.: 8

Date: 4-29-95  
 Project No.: 1801.0441  
 Project: STREET SEDIMENT SAMPLING

Sample Data

Location of Sample: 5NING032796AQ  
 Sample Description: POORLY GRADED SAND WITH SILT  
 USCS Class: SP-SM                      Liquid limit:  
 AASHTO Class:                              Plasticity index:

Notes

Remarks:

Fig. No.:

Mechanical Analysis Data

	Initial	
Dry sample and tare=	743.30	
Tare =	169.50	
Dry sample weight =	573.80	
Tare for cumulative weight retained=	230.8	
sieve	Cumul. Wt.	Percent
	retained	finer
0.375 inches	230.80	100.0
# 4	235.60	99.2
# 10	329.30	82.8
# 20	449.40	61.9
# 40	561.30	42.4
# 100	710.10	16.5
# 140	740.00	11.3
# 200	746.70	10.1

Fractional Components

% + 75mm. = 0.0      % GRAVEL = 0.8      % SAND = 89.1  
 % FINES = 10.1

D85= 2.19    D60= 0.782    D50= 0.547  
 D30= 0.2676    D15= 0.13725

GRAIN SIZE DISTRIBUTION TEST DATA

Test No.: 7

Date: 4-29-95  
 Project No.: 1801.0441  
 Project: STREET SEDIMENT SAMPLING

Sample Data

Location of Sample: SING032796AQ  
 Sample Description: POORLY GRADED SAND WITH SILT  
 USCS Class: SP-SM Liquid limit:  
 AASHTO Class: Plasticity index:

Notes

Remarks:

Fig. No.: 24

Mechanical Analysis Data

Initial  
 Dry sample and tare= 1178.30  
 Tare = 227.00  
 Dry sample weight = 951.30  
 Tare for cumulative weight retained= 227

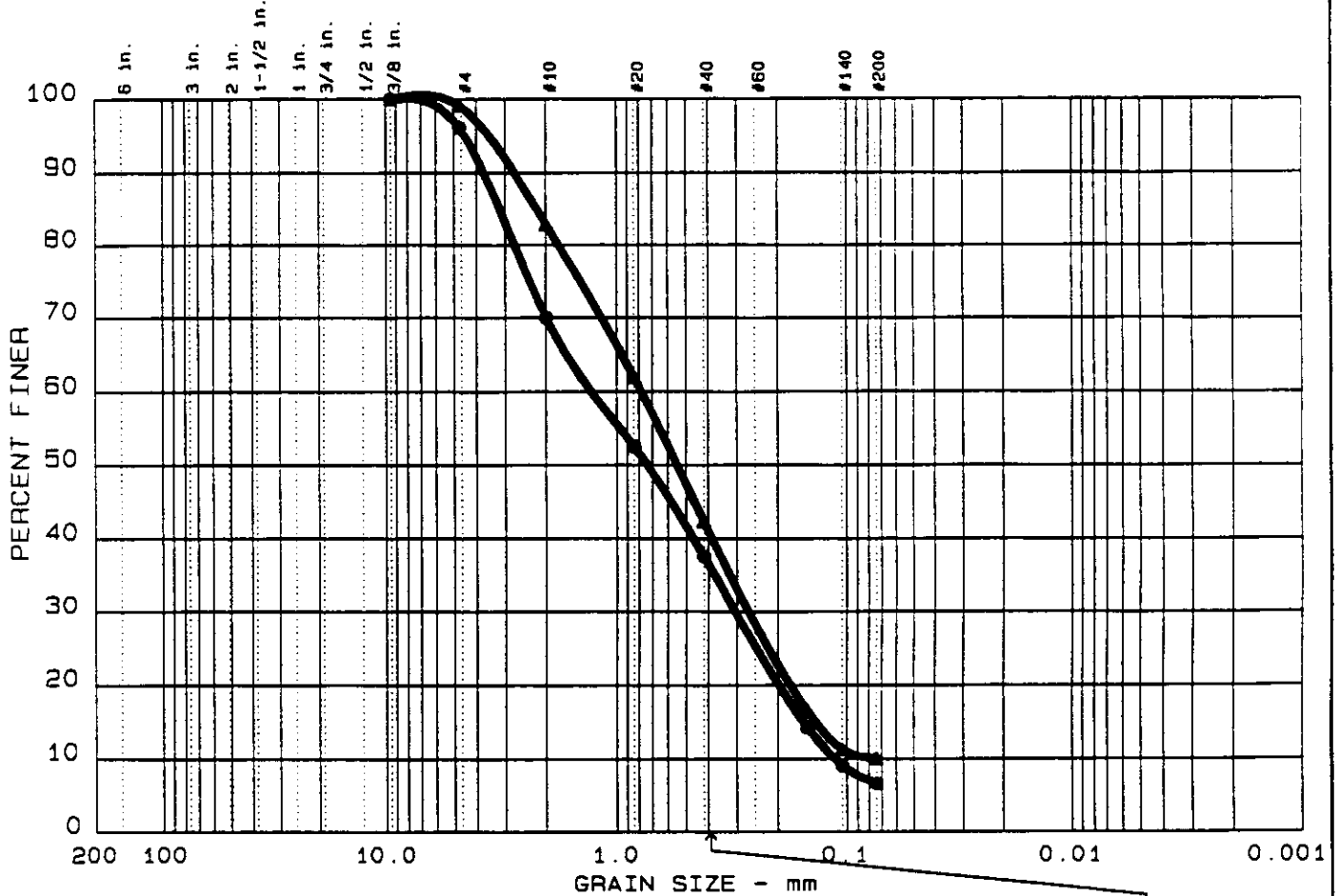
sieve	Cumul. Wt. retained	Percent finer
0.375 inches	227.00	100.0
# 4	263.70	96.1
# 10	512.40	70.0
# 20	679.00	52.5
# 40	820.70	37.6
# 100	1042.80	14.2
# 140	1092.10	9.1
# 200	1115.40	6.6

Fractional Components

% + 75mm. = 0.0      % GRAVEL = 3.9      % SAND = 89.5  
 % FINES = 6.6

D85= 3.16    D60= 1.274    D50= 0.733  
 D30= 0.3055    D15= 0.15488    D10= 0.11350  
 Cc = 0.6457    Cu = 11.2202

# GRAIN SIZE DISTRIBUTION TEST REPORT



Test	%+75mm	% GRAVEL	% SAND	% SILT	% CLAY
● 7	0.0	3.9	89.5	6.6	
▲ 8	0.0	0.8	89.1	10.1	

	LL	PI	D <sub>85</sub>	D <sub>60</sub>	D <sub>50</sub>	D <sub>30</sub>	D <sub>15</sub>	D <sub>10</sub>	C <sub>c</sub>	C <sub>u</sub>
●			3.16	1.27	0.73	0.305	0.1549	0.1135	0.65	11.2
▲			2.19	0.78	0.55	0.268	0.1372			

MATERIAL DESCRIPTION	USCS	AASHTO
● POORLY GRADED SAND WITH SILT	SP-SM	
▲ POORLY GRADED SAND WITH SILT	SP-SM	

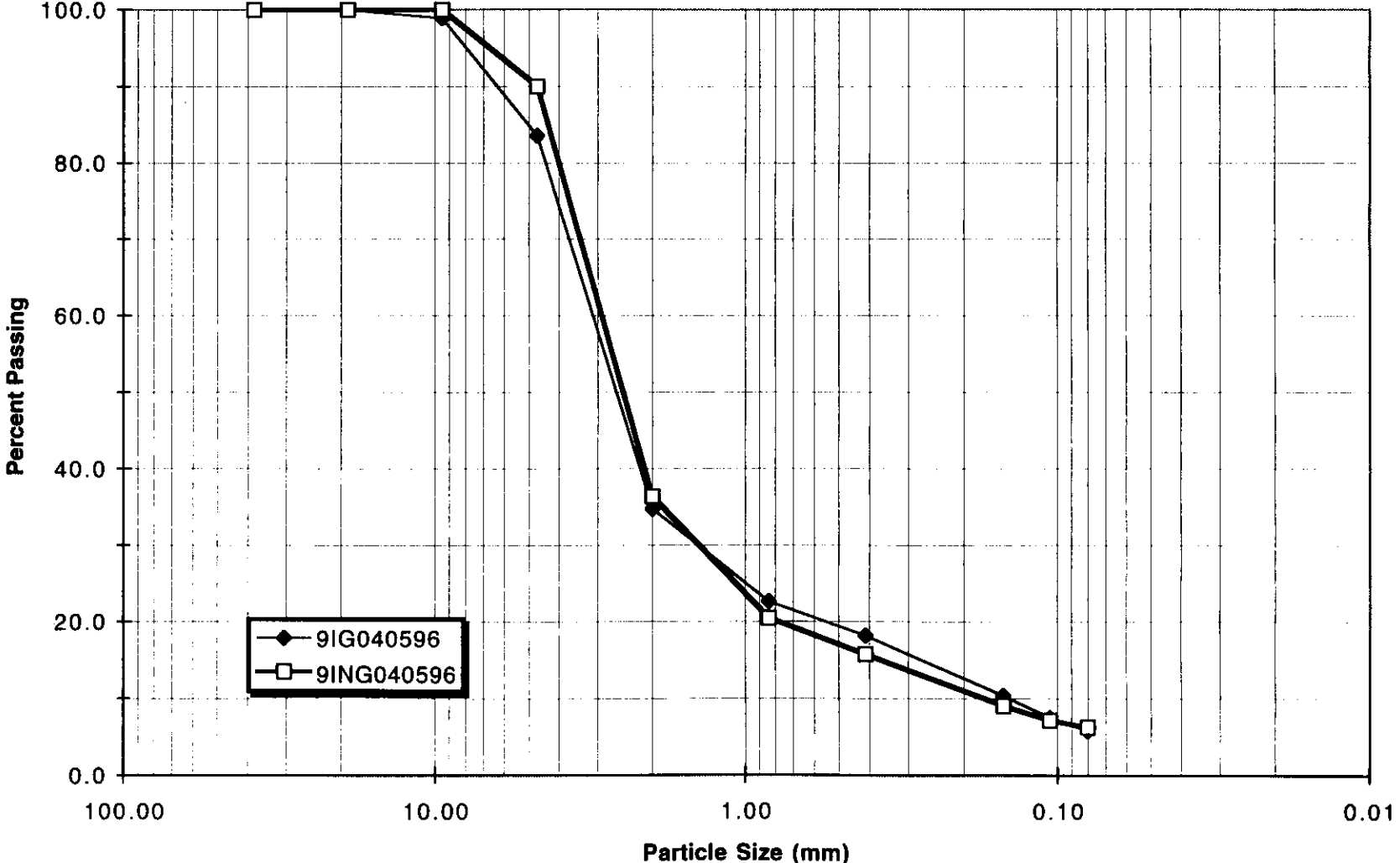
Project No.: 1801.0441  
 Project: STREET SEDIMENT SAMPLING  
 ● Location: 5ING032796AQ  
 ▲ Location: 5NING032796AQ  
 Date: 4-29-95

Remarks:

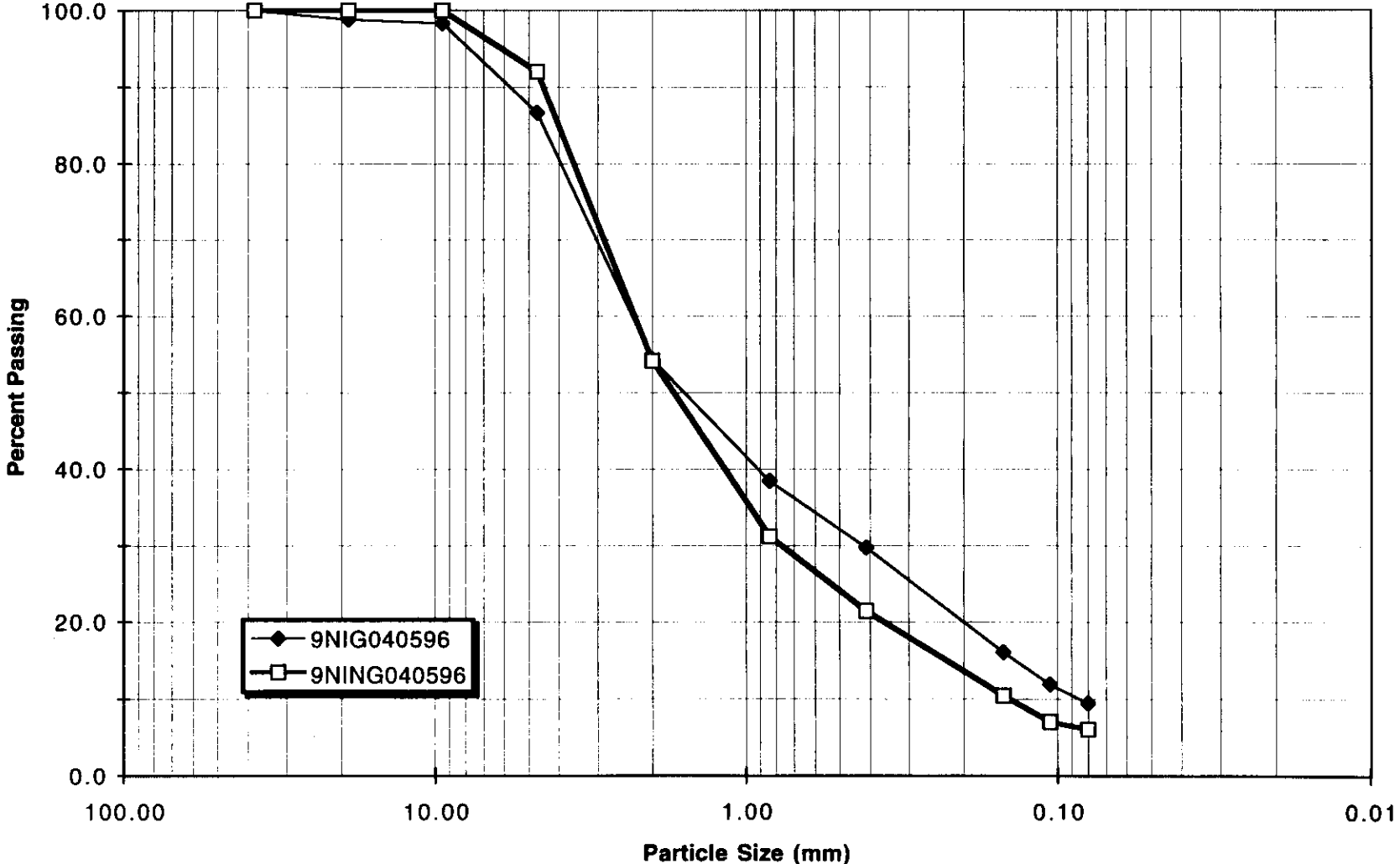
Figure No. 24



**GRAIN SIZE DISTRIBUTION TEST REPORT**  
**Street Sediment Loads Project**



**GRAIN SIZE DISTRIBUTION TEST REPORT**  
**Street Sediment Loads Project**



GRAIN SIZE DISTRIBUTION TEST DATA

Test No.: 15

Date: 4-29-95  
 Product No.: 1801.0441  
 Project: STREET SEDIMENT SAMPLING

Sample Data

Location of Sample: 12IG032696  
 Sample Description: POORLY GRADED SAND WITH SILT  
 USCS Class: SP-SM                      Liquid limit:  
 AASHTO Class:                              Plasticity index:

Notes

Remarks:

Fig. No.: 8

Mechanical Analysis Data

Initial  
 Dry sample and tare= 1091.60  
 Tare = 169.30  
 Dry sample weight = 922.30  
 Tare for cumulative weight retained= 169.3

ave	Cumul. Wt. retained	Percent finer
0.75 inches	169.30	100.0
0.5 inches	180.20	98.8
0.375 inches	202.90	96.4
# 4	399.50	75.0
# 10	752.20	36.8
# 20	842.20	27.0
# 40	902.90	20.5
# 100	998.30	10.1
# 140	1021.70	7.6
# 200	1033.70	6.3

Fractional Components

% + 75mm. = 0.0      % GRAVEL = 25.0      % SAND = 68.8  
 % FINES = 6.2

D85= 6.10    D60= 3.467    D50= 2.818  
 D30= 1.3646    D15= 0.25119    D10= 0.14622  
 Cc = 3.6728    Cu = 23.7137

GRAIN SIZE DISTRIBUTION TEST DATA

Test No.: 16

Date: 4-29-95  
 Project No.: 1801.0441  
 Project: STREET SEDIMENT SAMPLING

Sample Data

Location of Sample: 12ING032696  
 Sample Description: POORLY GRADED SAND WITH SILT  
 USCS Class: SP-SM                      Liquid limit:  
 AASHTO Class:                              Plasticity index:

Notes

Remarks:

Fig. No.:

Mechanical Analysis Data

Initial  
 Dry sample and tare= 842.60  
 Tare = 161.50  
 Dry sample weight = 681.10  
 Tare for cumulative weight retained= 162.4

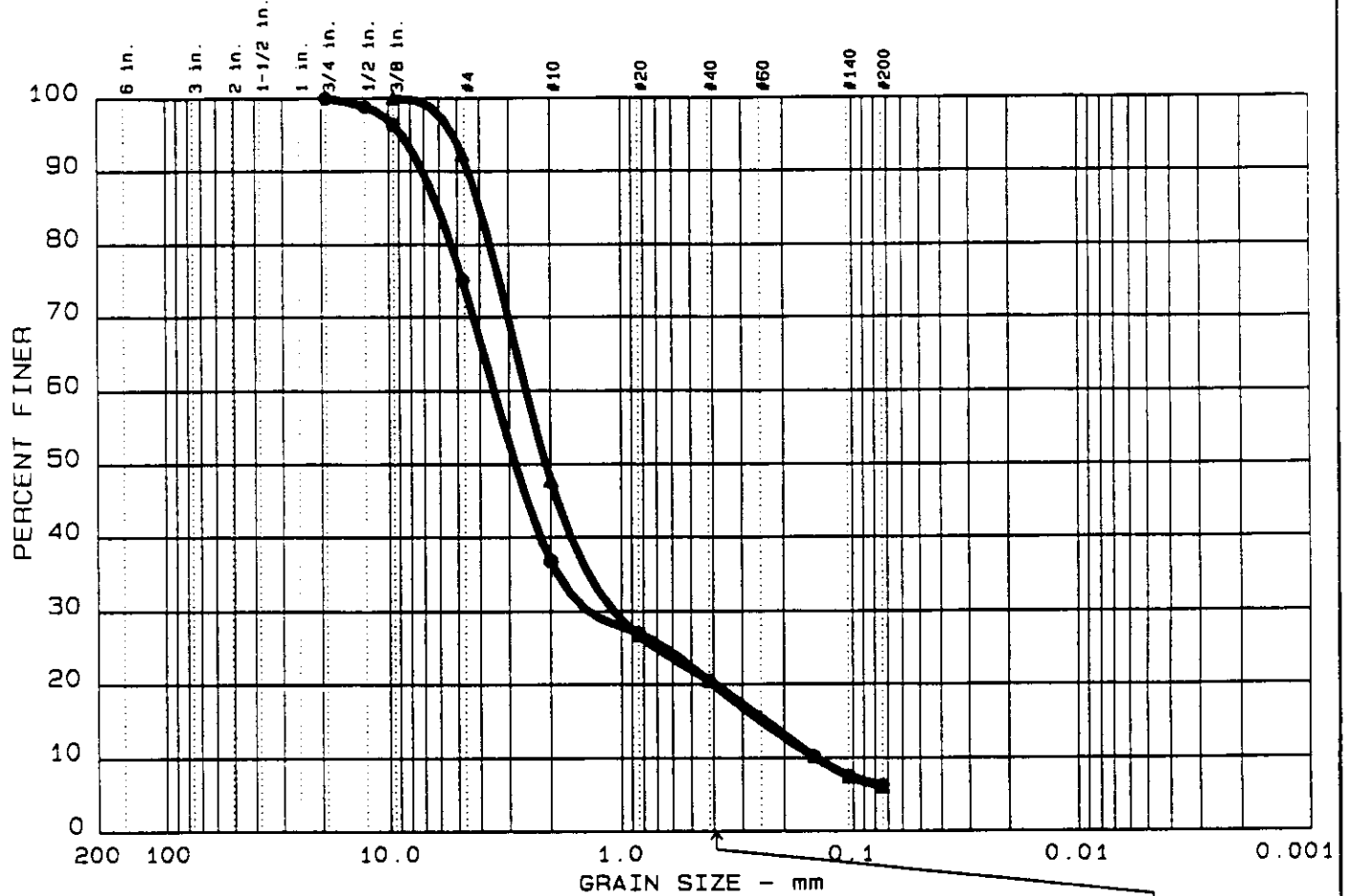
ave	Cumul. Wt. retained	Percent finer
0.375 inches	162.40	100.0
# 4	215.10	92.3
# 10	518.50	47.7
# 20	661.30	26.8
# 40	703.80	20.5
# 100	773.90	10.2
# 140	792.70	7.5
# 200	802.10	6.1

Fractional Components

% + 75mm. = 0.0      % GRAVEL = 7.7      % SAND = 86.2  
 % FINES = 6.1

D85= 3.98    D60= 2.532    D50= 2.099  
 D30= 1.0765    D15= 0.23823    D10= 0.14521  
 Cc = 3.1514    Cu = 17.4381

# GRAIN SIZE DISTRIBUTION TEST REPORT



Test	%+75mm	% GRAVEL	% SAND	% SILT	% CLAY
● 15	0.0	25.0	68.8	6.2	
▲ 16	0.0	7.7	86.2	6.1	

	LL	PI	D <sub>85</sub>	D <sub>60</sub>	D <sub>50</sub>	D <sub>30</sub>	D <sub>15</sub>	D <sub>10</sub>	C <sub>c</sub>	C <sub>u</sub>
●			6.10	3.47	2.82	1.365	0.2512	0.1462	3.67	23.7
▲			3.98	2.53	2.10	1.076	0.2382	0.1452	3.15	17.4

MATERIAL DESCRIPTION	USCS	AASHTO
● POORLY GRADED SAND WITH SILT	SP-SM	
▲ POORLY GRADED SAND WITH SILT	SP-SM	

Project No.: 1801.0441  
 Project: STREET SEDIMENT SAMPLING  
 ● Location: 12IG032696  
 ▲ Location: 12ING032696  
 Date: 4-29-95

Remarks:

GRAIN SIZE DISTRIBUTION TEST DATA

Test No.: 18

Date: 4-29-95  
 Project No.: 1801.0441  
 Project: STREET SEDIMENT SAMPLING

Sample Data

Location of Sample: 12NING032696  
 Sample Description: WELL GRADED SAND  
 USCS Class: SW                      Liquid limit:  
 AASHTO Class:                      Plasticity index:

Notes

Remarks:

Fig. No.:

Mechanical Analysis Data

	Initial	
Dry sample and tare=	892.10	
Tare	= 164.70	
Dry sample weight	= 727.40	
Tare for cumulative weight retained=	164.7	
	Cumul. Wt.	Percent
ave	retained	finer
0.375 inches	164.70	100.0
# 4	179.00	98.0
# 10	315.30	79.3
# 20	548.60	47.2
# 40	677.40	29.5
# 100	808.70	11.5
# 140	841.30	7.0
# 200	857.90	4.7

Fractional Components

% + 75mm. = 0.0      % GRAVEL = 2.0      % SAND = 93.3  
 % FINES = 4.7

D85= 2.40    D60= 1.189    D50= 0.911  
 D30= 0.4261    D15= 0.18599    D10= 0.13320  
 Cc = 1.1468    Cu = 8.9228

GRAIN SIZE DISTRIBUTION TEST DATA

Test No.: 17

Date: 4-29-95  
 Project No.: 1801.0441  
 Project: STREET SEDIMENT SAMPLING

Sample Data

Location of Sample: 12NIG032696  
 Sample Description: WELL GRADED SAND WITH SILT  
 USCS Class: SW-SM                      Liquid limit:  
 AASHTO Class:                              Plasticity index:

Notes

Remarks:

Fig. No.: 9

Mechanical Analysis Data

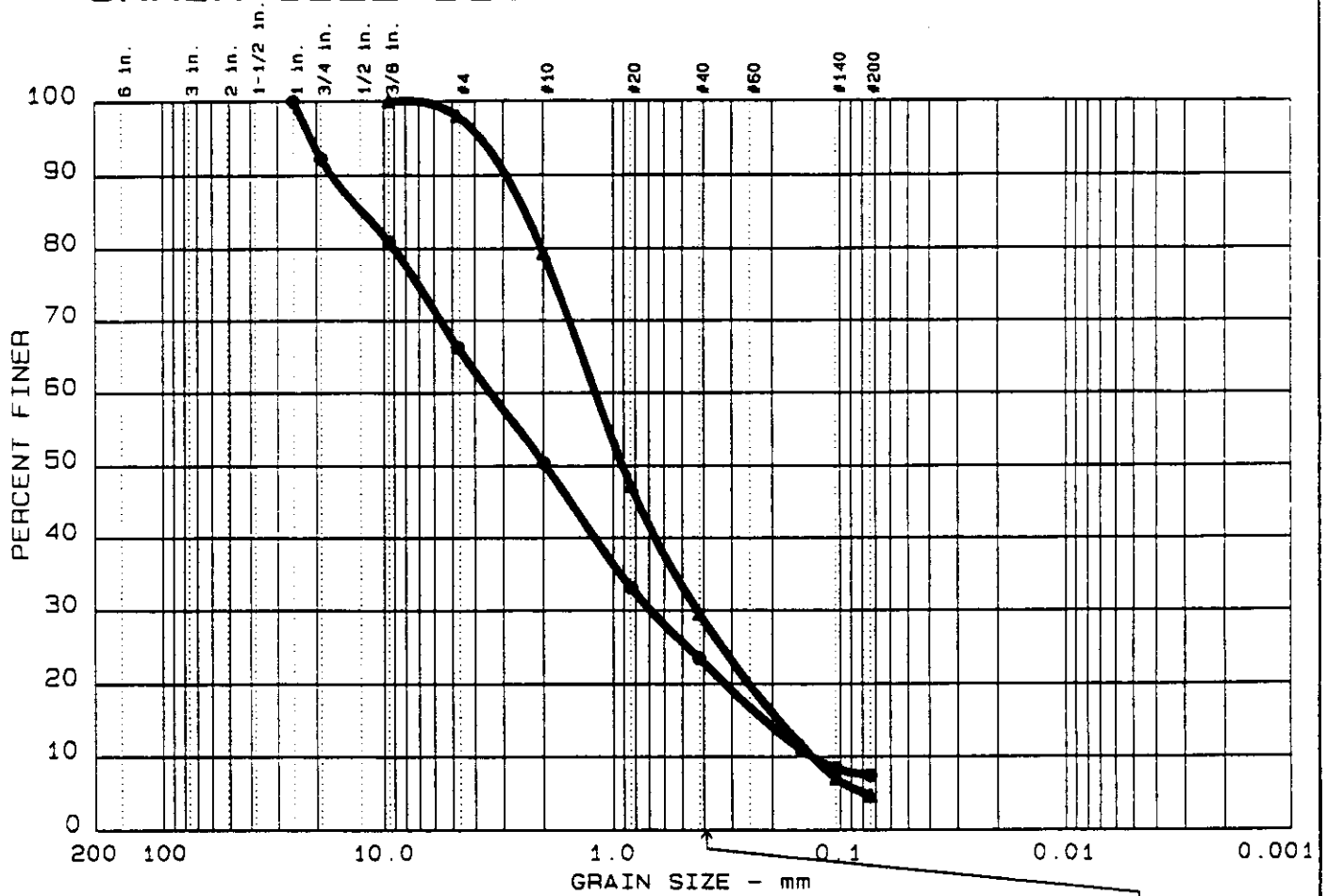
	Initial	
Dry sample and tare=	823.10	
Tare =	227.20	
Dry sample weight =	595.90	
Tare for cumulative weight retained=	231.2	
	Cumul. Wt.	Percent
ave	retained	finer
1 inches	231.20	100.0
0.75 inches	277.10	92.3
0.375 inches	344.80	80.9
# 4	431.80	66.3
# 10	526.80	50.4
# 20	629.70	33.1
# 40	687.70	23.4
# 100	762.10	10.9
# 140	777.40	8.3
# 200	782.70	7.5

Fractional Components

% + 75mm. = 0.0      % GRAVEL = 33.7      % SAND = 58.9  
 % FINES = 7.4

D85= 12.45    D60= 3.388    D50= 1.950  
 D30= 0.6839    D15= 0.21627    D10= 0.13183  
 Cc = 1.0471    Cu = 25.7040

# GRAIN SIZE DISTRIBUTION TEST REPORT



Test	%+75 mm	% GRAVEL	% SAND	% SILT	% CLAY
● 17	0.0	33.7	58.9	7.4	
▲ 18	0.0	2.0	93.3	4.7	

	LL	PI	D <sub>85</sub>	D <sub>60</sub>	D <sub>50</sub>	D <sub>30</sub>	D <sub>15</sub>	D <sub>10</sub>	C <sub>c</sub>	C <sub>u</sub>
●			12.45	3.39	1.95	0.684	0.2163	0.1318	1.05	25.7
▲			2.40	1.19	0.91	0.426	0.1860	0.1332	1.15	8.9

MATERIAL DESCRIPTION	USCS	AASHTO
● WELL GRADED SAND WITH SILT	SW-SM	
▲ WELL GRADED SAND	SW	

Project No.: 1801.0441  
 Project: STREET SEDIMENT SAMPLING  
 ● Location: 12NIG032696  
 ▲ Location: 12NING032696  
 Date: 4-29-95

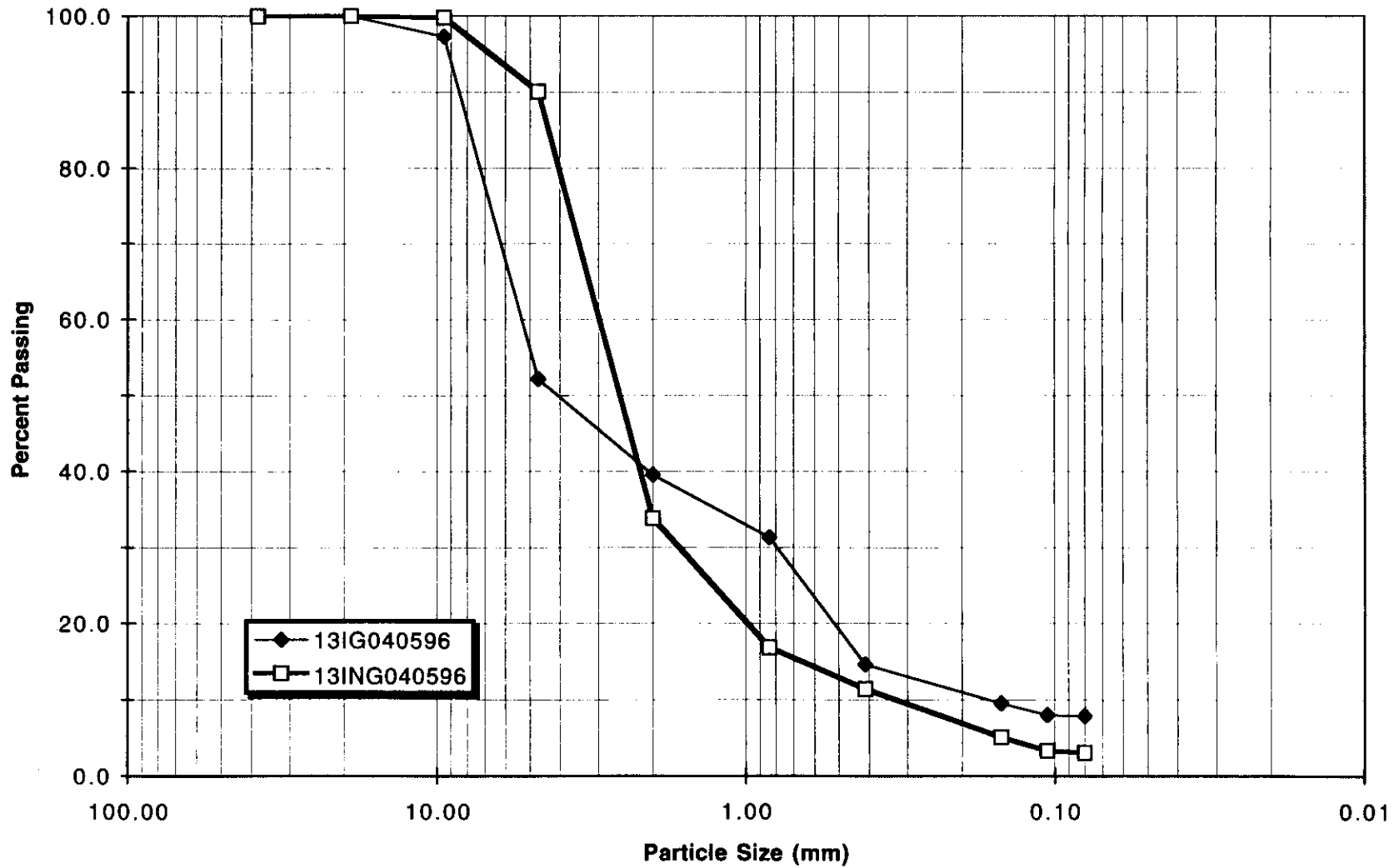
Remarks:

Figure No. 9



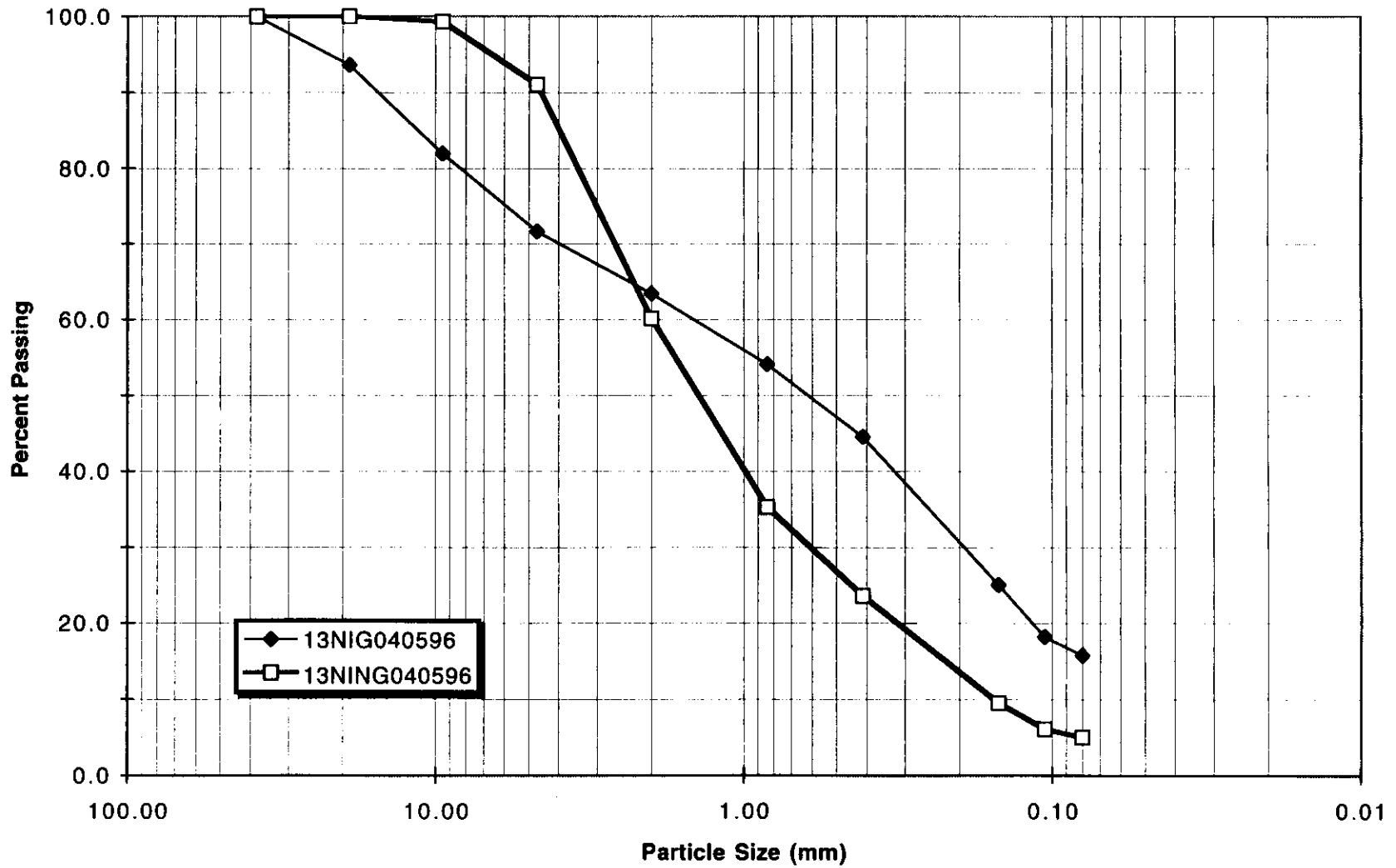
# GRAIN SIZE DISTRIBUTION TEST REPORT

## Street Sediment Loads Project



# GRAIN SIZE DISTRIBUTION TEST REPORT

## Street Sediment Loads Project



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GRAIN SIZE DISTRIBUTION TEST DATA

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Test No.: 19

Date: 4-29-95  
 Project No.: 1801.0441  
 Project: STREET SEDIMENT SAMPLING

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Sample Data

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Location of Sample: 15IG032796  
 Sample Description: POORLY GRADED SAND WITH SILT  
 USCS Class: SP-SM                      Liquid limit:  
 AASHTO Class:                              Plasticity index:

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Notes

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Remarks:

Fig. No.: 10

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Mechanical Analysis Data

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	Initial	
Dry sample and tare=	1290.70	
Tare	= 230.80	
Dry sample weight	= 1059.90	
Tare for cumulative weight retained=	231.2	
ave	Cumul. Wt.	Percent
	retained	finer
0.75 inches	231.20	100.0
0.375 inches	237.20	99.4
# 4	375.20	86.4
# 10	686.90	57.0
# 20	870.80	39.7
# 40	981.40	29.2
# 100	1158.50	12.5
# 140	1197.50	8.8
# 200	1207.30	7.9

-----

Fractional Components

-----

% + 75mm. = 0.0      % GRAVEL = 13.6      % SAND = 78.5  
 % FINES = 7.9

D85= 4.52    D60= 2.203    D50= 1.507  
 D30= 0.4395    D15= 0.17701    D10= 0.11967  
 Cc = 0.7328    Cu = 18.4077

=====

GRAIN SIZE DISTRIBUTION TEST DATA

Test No.: 20

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Date: 4-29-95  
 Product No.: 1801.0441  
 Project: STREET SEDIMENT SAMPLING

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Sample Data

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Location of Sample: 15ING032796  
 Sample Description: POORLY GRADED SAND  
 USCS Class: SP                      Liquid limit:  
 AASHTO Class:                      Plasticity index:

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Notes

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Remarks:

Fig. No.:

-----

Mechanical Analysis Data

-----

	Initial	
Dry sample and tare=	583.60	
Tare =	186.60	
Dry sample weight =	397.00	
Tare for cumulative weight retained=	186.6	

Sieve	Cumul. Wt. retained	Percent finer
0.375 inches	186.60	100.0
# 4	196.10	97.6
# 10	358.90	56.6
# 20	492.20	23.0
# 40	545.00	9.7
# 100	579.00	1.2
# 140	581.20	0.6
# 200	582.60	0.3

-----

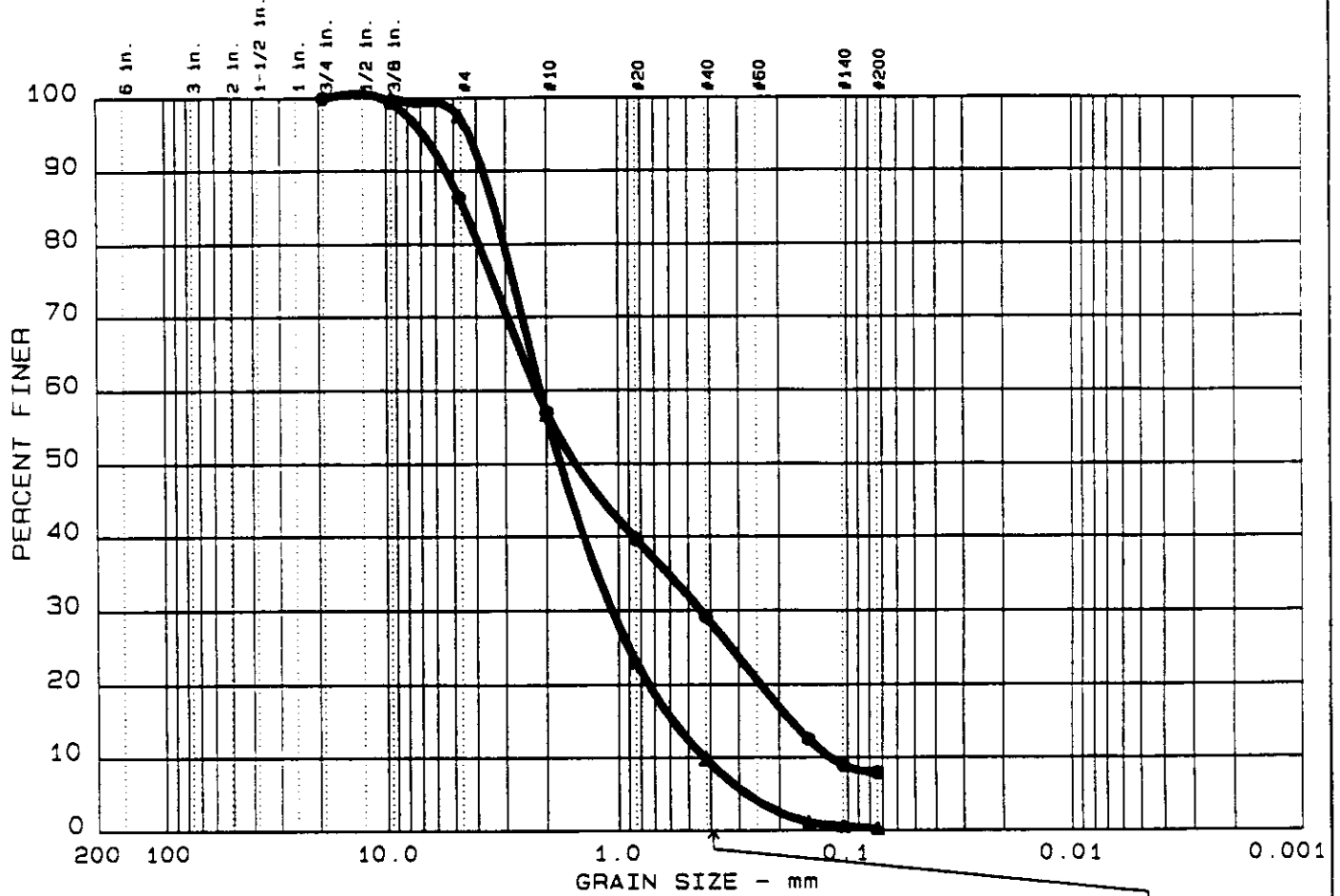
Fractional Components

-----

% + 75mm. = 0.0      % GRAVEL = 2.4      % SAND = 97.4  
 % FINES = 0.2

D85= 3.41    D60= 2.133    D50= 1.750  
 D30= 1.0617    D15= 0.58345    D10= 0.42756  
 Cc = 1.2359    Cu = 4.9888

# GRAIN SIZE DISTRIBUTION TEST REPORT



Test	% +75 mm	% GRAVEL	% SAND	% SILT	% CLAY
● 19	0.0	13.6	78.5	7.9	
▲ 20	0.0	2.4	97.4	0.2	

	LL	PI	D <sub>85</sub>	D <sub>60</sub>	D <sub>50</sub>	D <sub>30</sub>	D <sub>15</sub>	D <sub>10</sub>	C <sub>c</sub>	C <sub>u</sub>
●			4.52	2.20	1.51	0.440	0.1770	0.1197	0.73	18.4
▲			3.35	2.13	1.75	1.067	0.5794	0.4246	1.26	5.0

MATERIAL DESCRIPTION	USCS	AASHTO
● POORLY GRADED SAND WITH SILT	SP-SM	
▲ POORLY GRADED SAND	SP	

Project No.: 1801.0441  
 Project: STREET SEDIMENT SAMPLING  
 ● Location: 15IG032796  
 ▲ Location: 15ING032796  
 Date: 4-29-95

Remarks:

Figure No. 10

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GRAIN SIZE DISTRIBUTION TEST DATA

Test No.: 1

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Date: 4-29-95  
 Project No.: 1801.0441  
 Project: STREET SEDIMENT SAMPLING

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Sample Data

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Location of Sample: 15NIG032796  
 Sample Description: POORLY GRADED SAND WITH SILT  
 USCS Class: SP-SM                      Liquid limit:  
 AASHTO Class:                              Plasticity index:

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Notes

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Remarks:

Fig. No.: 11

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Mechanical Analysis Data

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Initial  
 Dry sample and tare= 2677.10  
 Tare = 233.10  
 Dry sample weight = 2444.00  
 Tare for cumulative weight retained= 234

Size	Cumul. Wt. retained	Percent finer
0.75 inches	234.00	100.0
0.375 inches	250.80	99.3
# 4	367.90	94.5
# 10	860.20	74.4
# 20	1350.70	54.3
# 40	1751.30	37.9
# 100	2261.60	17.0
# 140	2364.20	12.8
# 200	2384.80	12.0

-----

Fractional Components

-----

% + 75mm. = 0.0      % GRAVEL = 5.5      % SAND = 82.5  
 % FINES = 12.0

D85= 3.02    D60= 1.079    D50= 0.697  
 D30= 0.2938    D15= 0.12823

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GRAIN SIZE DISTRIBUTION TEST DATA

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Test No.: 2

Date: 4-29-95  
 Project No.: 1801.0441  
 Project: STREET SEDIMENT SAMPLING

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Sample Data

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Location of Sample: 15NING032796  
 Sample Description: POORLY GRADED SAND  
 USCS Class: SP                      Liquid limit:  
 AASHTO Class:                      Plasticity index:

-----

Notes

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Remarks:

Fig. No.:

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Mechanical Analysis Data

-----

	Initial	
Dry sample and tare=	339.60	
Tare =	163.80	
Dry sample weight =	175.80	
Tare for cumulative weight retained=	163.8	
	Cumul. Wt.	Percent
sieve	retained	finer
# 4	163.80	100.0
# 10	184.00	88.5
# 20	259.60	45.5
# 40	300.90	22.0
# 100	333.90	3.2
# 140	336.60	1.7
# 200	338.10	0.9

-----

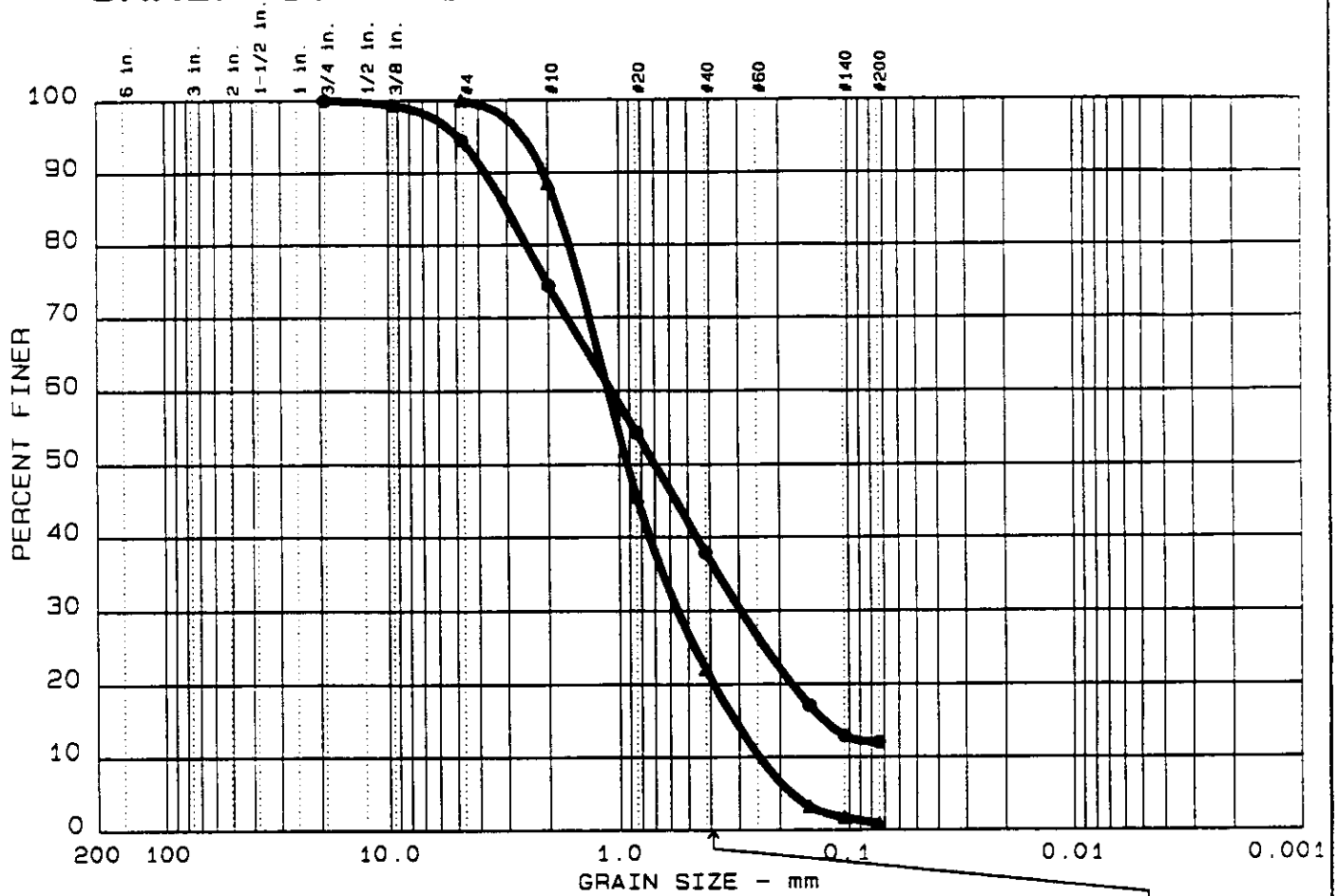
Fractional Components

-----

% + 75mm. = 0.0      % GRAVEL = 0.0      % SAND = 99.1  
 % FINES = 0.9

D85= 1.82    D60= 1.113    D50= 0.922  
 D30= 0.5553    D15= 0.31225    D10= 0.24519  
 Cc = 1.1298    Cu = 4.5394

# GRAIN SIZE DISTRIBUTION TEST REPORT



Test	%+75 mm	% GRAVEL	% SAND	% SILT	% CLAY
● 1	0.0	5.5	82.5	12.0	
▲ 2	0.0	0.0	99.1	0.9	

	LL	PI	D <sub>85</sub>	D <sub>60</sub>	D <sub>50</sub>	D <sub>30</sub>	D <sub>15</sub>	D <sub>10</sub>	C <sub>c</sub>	C <sub>u</sub>
●			3.02	1.08	0.70	0.294	0.1282			
▲			1.82	1.11	0.92	0.555	0.3122	0.2452	1.13	4.5

MATERIAL DESCRIPTION	USCS	AASHTO
● POORLY GRADED SAND WITH SILT	SP-SM	
▲ POORLY GRADED SAND	SP	

Project No.: 1801.0441  
 Project: STREET SEDIMENT SAMPLING  
 ● Location: 15NIG032796  
 ▲ Location: 15NING032796  
 Date: 4-29-95

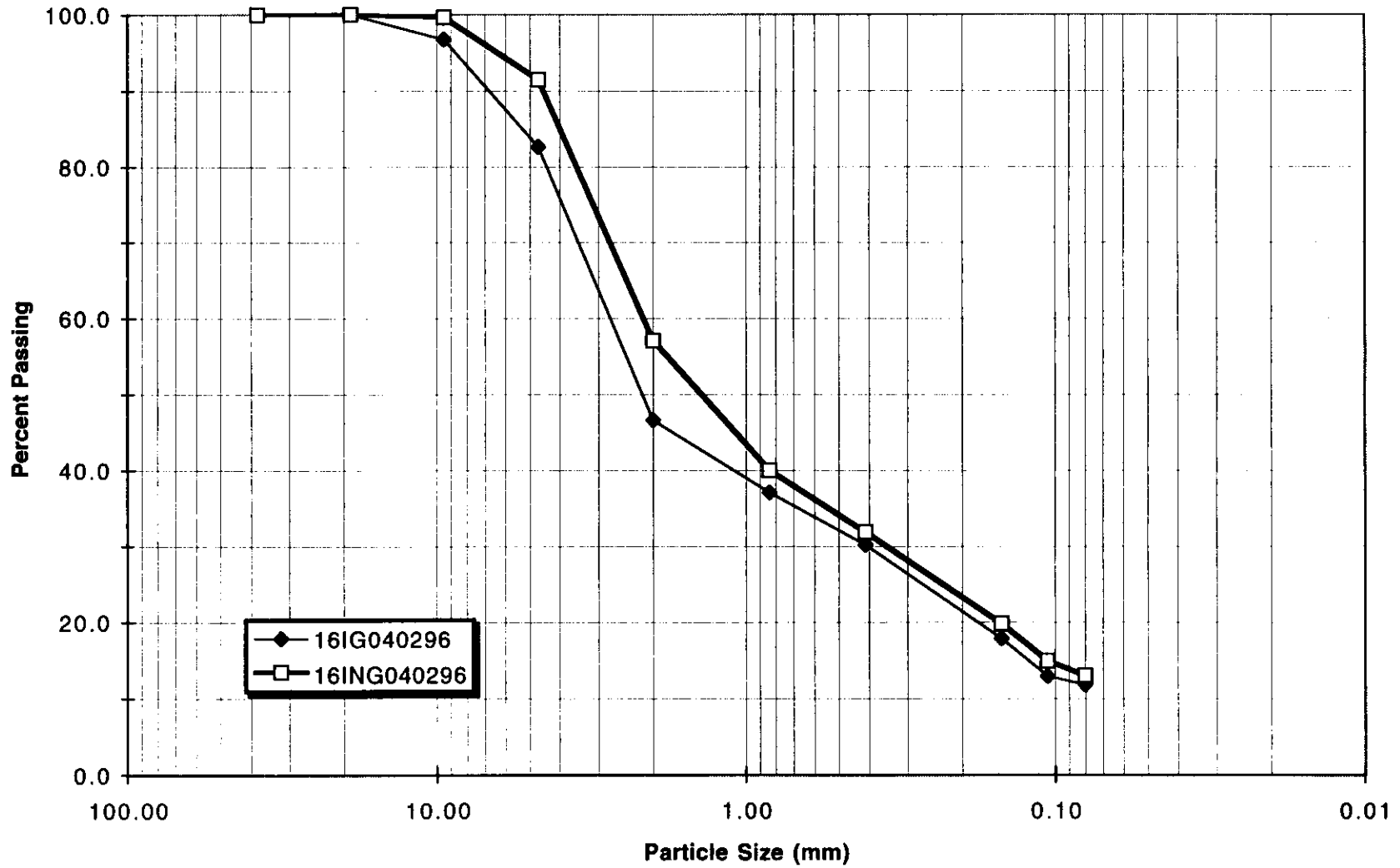
Remarks:

Figure No. 11



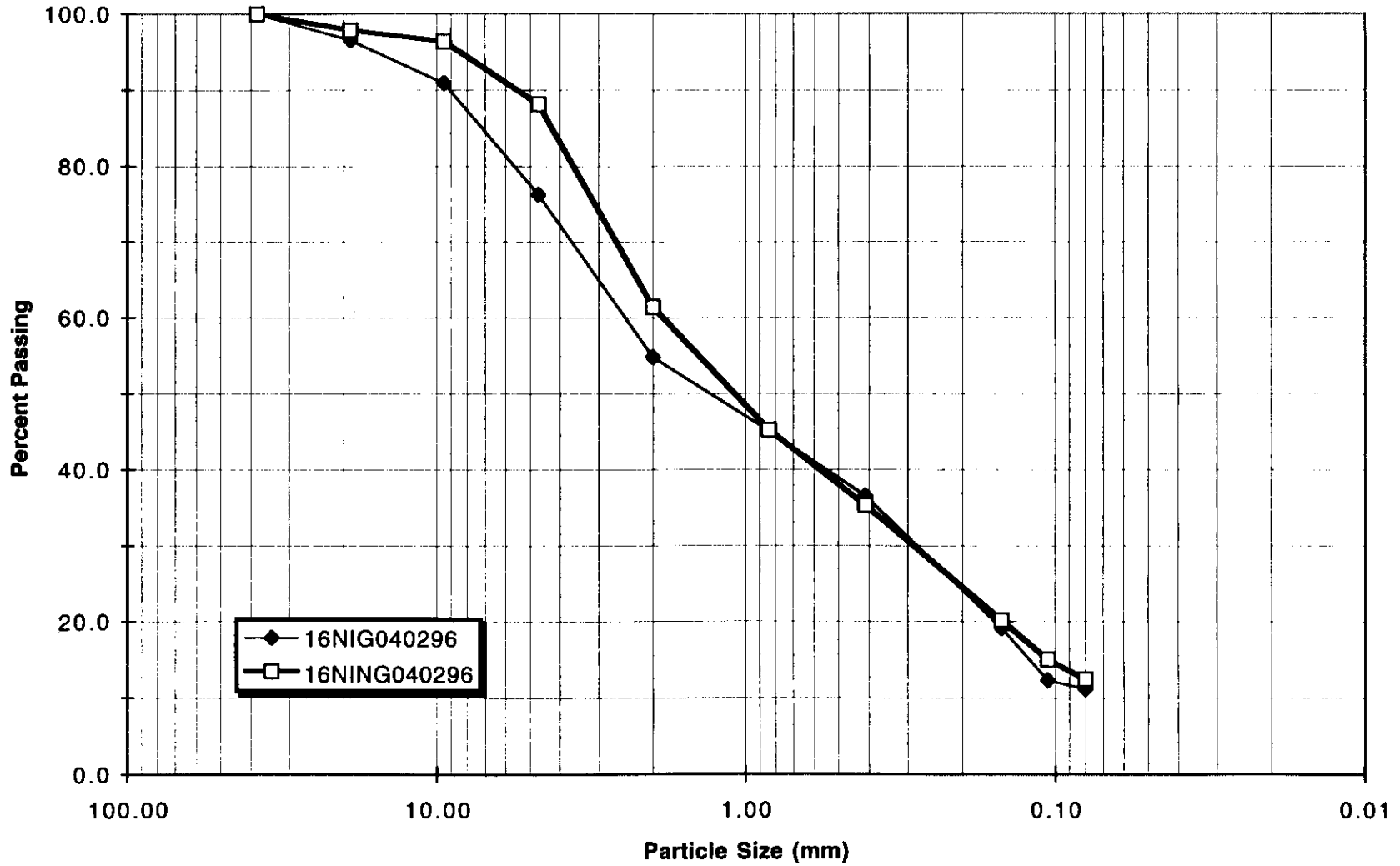
# GRAIN SIZE DISTRIBUTION TEST REPORT

## Street Sediment Loads Project



# GRAIN SIZE DISTRIBUTION TEST REPORT

## Street Sediment Loads Project



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GRAIN SIZE DISTRIBUTION TEST DATA

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Test No.: 3

Date: 4-29-95  
 Project No.: 1801.0441  
 Project: STREET SEDIMENT SAMPLING

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Sample Data

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Location of Sample: 36IG032196  
 Sample Description: SILTY SAND  
 USCS Class: SM  
 AASHTO Class: \_\_\_\_\_

Liquid limit:  
 Plasticity index:

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Notes

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Remarks:

Fig. No.: 12

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Mechanical Analysis Data

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	Initial	
Dry sample and tare=	2788.70	
Tare =	164.80	
Dry sample weight =	2623.90	
Tare for cumulative weight retained=	228	
	Cumul. Wt.	Percent
ave	retained	finer
0.75 inches	228.00	100.0
0.375 inches	234.20	99.8
# 10	1192.20	63.3
# 20	1652.40	45.7
# 40	1944.40	34.6
# 100	2338.50	19.6
# 140	2423.50	16.3
# 200	2461.50	14.9

*No # 4 = 88% from Grain size Dist. curve.*

-----

Fractional Components

-----

% + 75mm. = 0.0      % GRAVEL = 13.0      % SAND = 72.1  
 % FINES = 14.9

D85= 4.41    D60= 1.736    D50= 1.070  
 D30= 0.3122    D15= 0.07405

GRAIN SIZE DISTRIBUTION TEST DATA

Test No.: 4

Date: 4-29-95  
 Project No.: 1801.0441  
 Project: STREET SEDIMENT SAMPLING

Sample Data

Location of Sample: 36ING032196  
 Sample Description: POORLY GRADED SAND WITH SILT  
 USCS Class: SP-SM                      Liquid limit:  
 AASHTO Class:                              Plasticity index:

Notes

Remarks:

Fig. No.:

Mechanical Analysis Data

Initial  
 Dry sample and tare= 1797.90  
 Tare = 228.00  
 Dry sample weight = 1569.90  
 Tare for cumulative weight retained= 228

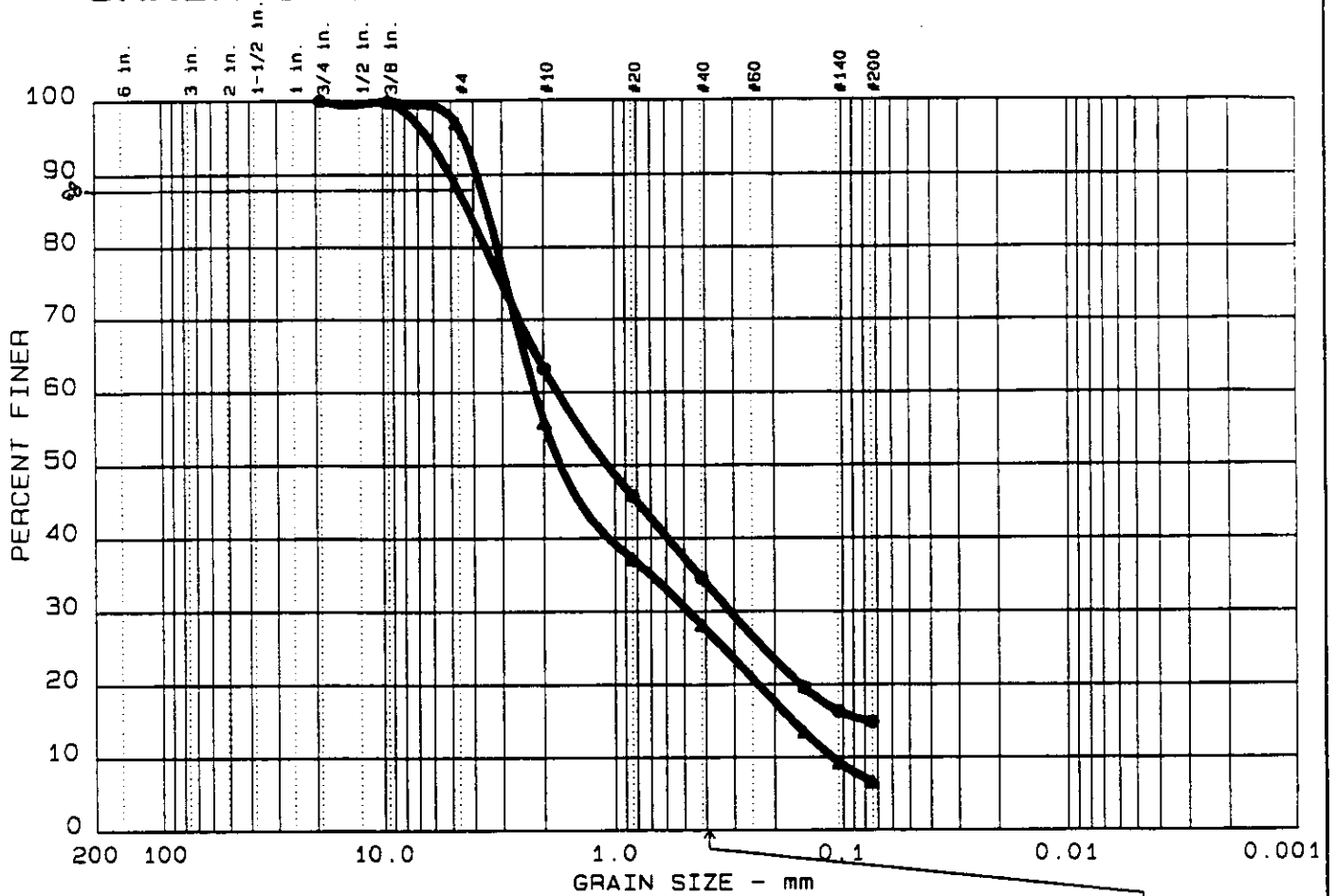
sieve	Cumul. Wt. retained	Percent finer
0.375 inches	228.00	100.0
# 4	274.30	97.1
# 10	921.10	55.9
# 20	1214.50	37.2
# 40	1355.60	28.2
# 100	1586.40	13.5
# 140	1652.90	9.2
# 200	1694.10	6.6

Fractional Components

% + 75mm. = 0.0      % GRAVEL = 2.9      % SAND = 90.4  
 % FINES = 6.7

D85= 3.53    D60= 2.193    D50= 1.702  
 D30= 0.4797    D15= 0.16634    D10= 0.11246  
 Cc = 0.9333    Cu = 19.4984

# GRAIN SIZE DISTRIBUTION TEST REPORT



Test	%+75 <sub>mm</sub>	% GRAVEL	% SAND	% SILT	% CLAY
● 3	0.0	11.6	73.5	14.9	
▲ 4	0.0	2.9	90.4	6.7	

	LL	PI	D <sub>85</sub>	D <sub>60</sub>	D <sub>50</sub>	D <sub>30</sub>	D <sub>15</sub>	D <sub>10</sub>	C <sub>c</sub>	C <sub>u</sub>
●			4.20	1.75	1.07	0.311	0.0764			
▲			3.46	2.19	1.71	0.477	0.1654	0.1118	0.93	19.5

MATERIAL DESCRIPTION	USCS	AASHTO
● SILTY SAND	SM	
▲ POORLY GRADED SAND WITH SILT	SP-SM	

Project No.: 1801.0441  
 Project: STREET SEDIMENT SAMPLING  
 ● Location: 36IG032196  
 ▲ Location: 36ING032196  
 Date: 4-29-95

Remarks:

Figure No. 12

GRAIN SIZE DISTRIBUTION TEST DATA

Test No.: 5

Date: 4-29-95  
 Project No.: 1801.0441  
 Project: STREET SEDIMENT SAMPLING

Sample Data

Location of Sample: 36NIG032196  
 Sample Description: POORLY GRADED SAND WITH SILT  
 USCS Class: SP-SM Liquid limit:  
 AASHTO Class: Plasticity index:

Notes

Remarks:

Fig. No.: 13

Mechanical Analysis Data

Initial  
 Dry sample and tare = 1627.50  
 Tare = 169.60  
 Dry sample weight = 1457.90  
 Tare for cumulative weight retained = 169.6

sieve	Cumul. Wt. retained	Percent finer
0.5 inches	169.60	100.0
0.375 inches	170.70	99.9
# 4	253.20	94.3
# 10	903.90	49.6
# 20	1122.70	34.6
# 40	1237.20	26.8
# 100	1455.40	11.8
# 140	1512.80	7.9
# 200	1548.00	5.5

Fractional Components

% + 75mm. = 0.0    % GRAVEL = 5.7    % SAND = 88.8  
 % FINES = 5.5

D85 = 3.83    D60 = 2.466    D50 = 2.016  
 D30 = 0.5364    D15 = 0.18599    D10 = 0.12868  
 Cc = 0.9068    Cu = 19.1646

GRAIN SIZE DISTRIBUTION TEST DATA

Test No.: 6

Date: 4-29-95  
Project No.: 1801.0441  
Project: STREET SEDIMENT SAMPLING

Sample Data

Location of Sample: 36NING032196  
Sample Description: POORLY GRADED SAND WITH SILT  
USCS Class: SP-SM Liquid limit:  
AASHTO Class: Plasticity index:

Notes

Remarks:

Fig. No.:

Mechanical Analysis Data

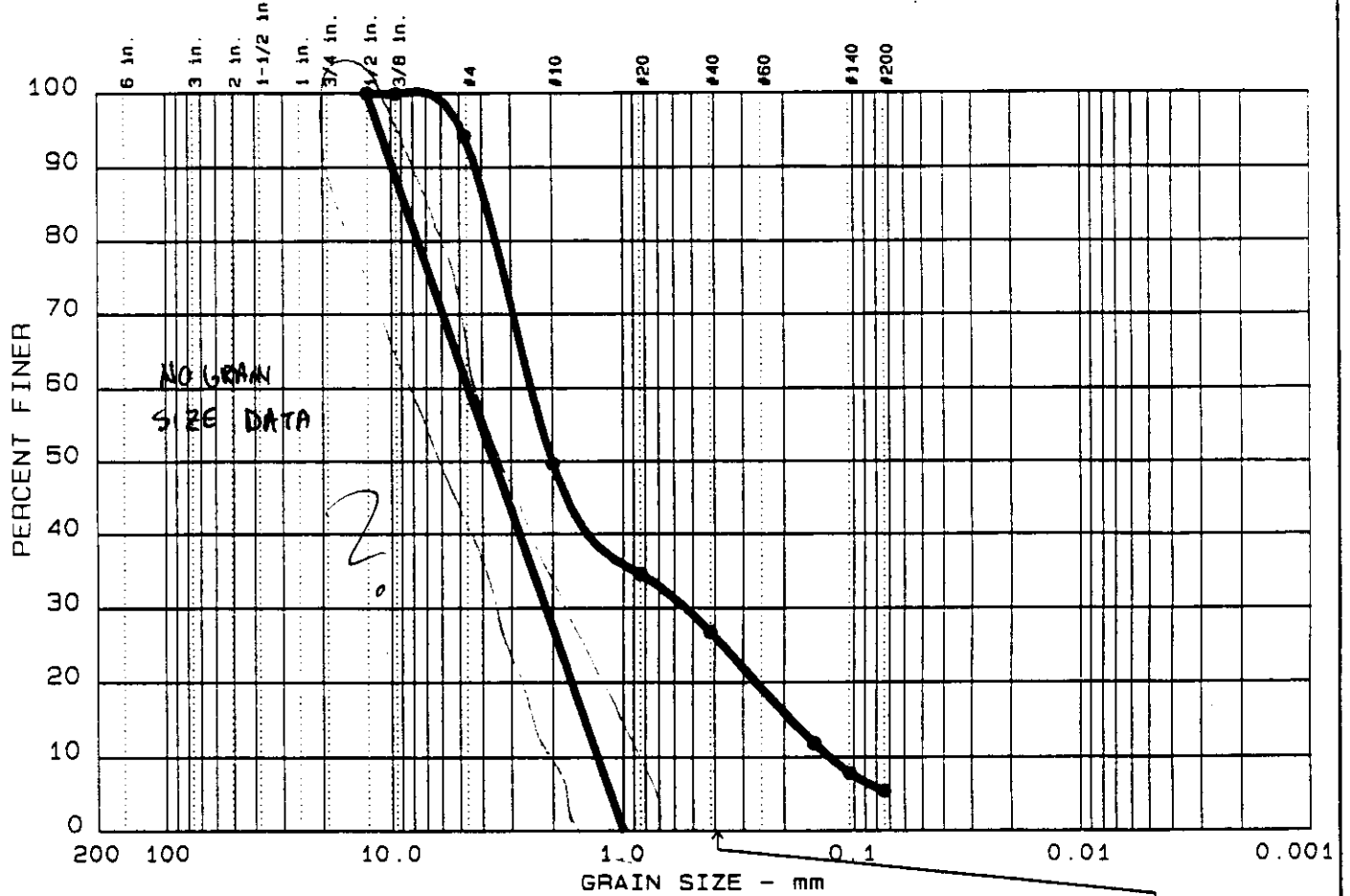
Initial  
Dry sample and tare = 1627.50  
Tare = 168.10  
Dry sample weight = 1459.40  
Tare for cumulative weight retained = 169.6  
NO GRAIN SIZE DATA

Fractional Components

% + 75mm. = 0.0 % GRAVEL = 0.0 % SAND = 0.0

~~NO DATA~~

# GRAIN SIZE DISTRIBUTION TEST REPORT



Test	%+75mm	% GRAVEL	% SAND	% SILT	% CLAY
● 5	0.0	5.7	88.8	5.5	
▲ 6	0.0	0.0		0.0	

	LL	PI	D <sub>85</sub>	D <sub>60</sub>	D <sub>50</sub>	D <sub>30</sub>	D <sub>15</sub>	D <sub>10</sub>	C <sub>c</sub>	C <sub>u</sub>
●			3.83	2.47	2.02	0.536	0.1860	0.1287	0.91	19.2
▲										

MATERIAL DESCRIPTION	USCS	AASHTO
● POORLY GRADED SAND WITH SILT	SP-SM	
▲ POORLY GRADED SAND WITH SILT	SP-SM	

Project No.: 1801.0441  
 Project: STREET SEDIMENT SAMPLING  
 ● Location: 36NIG032196  
 ▲ Location: 36NING032196  
 Date: 4-29-95

Remarks:



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GRAIN SIZE DISTRIBUTION TEST DATA

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Test No.: 9

Date: 4-29-95  
 Project No.: 1801.0441  
 Project: STREET SEDIMENT SAMPLING

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Sample Data

-----

Location of Sample: 36ING032196AQ  
 Sample Description: SILTY SAND  
 USCS Class: SM                      Liquid limit:  
 AASHTO Class:                      Plasticity index:

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Notes

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Remarks:

Fig. No.: 25

-----

Mechanical Analysis Data

-----

	Initial	
Dry sample and tare=	741.20	
Tare =	228.00	
Dry sample weight =	513.20	
Tare for cumulative weight retained=	227.2	
	Cumul. Wt.	Percent
ave	retained	finer
0.75 inches	227.20	100.0
0.375 inches	228.70	99.7
# 4	241.70	97.2
# 10	376.10	71.0
# 20	479.20	50.9
# 40	535.50	39.9
# 100	635.60	20.4
# 140	660.50	15.6
# 200	675.80	12.6

-----

Fractional Components

-----

% + 75mm. = 0.0      % GRAVEL = 2.8      % SAND = 84.6  
 % FINES = 12.6

D85= 3.02    D60= 1.332    D50= 0.793  
 D30= 0.2480    D15= 0.09874

GRAIN SIZE DISTRIBUTION TEST DATA

Test No.: 10

Date: 4-29-95  
 Project No.: 1801.0441  
 Project: STREET SEDIMENT SAMPLING

Sample Data

Location of Sample: 36NING032196AQ  
 Sample Description: POORLY GRADED SAND WITH SILT  
 USCS Class: SP-SM                      Liquid limit:  
 AASHTO Class:                              Plasticity index:

Notes

Remarks:

Fig. No.:

Mechanical Analysis Data

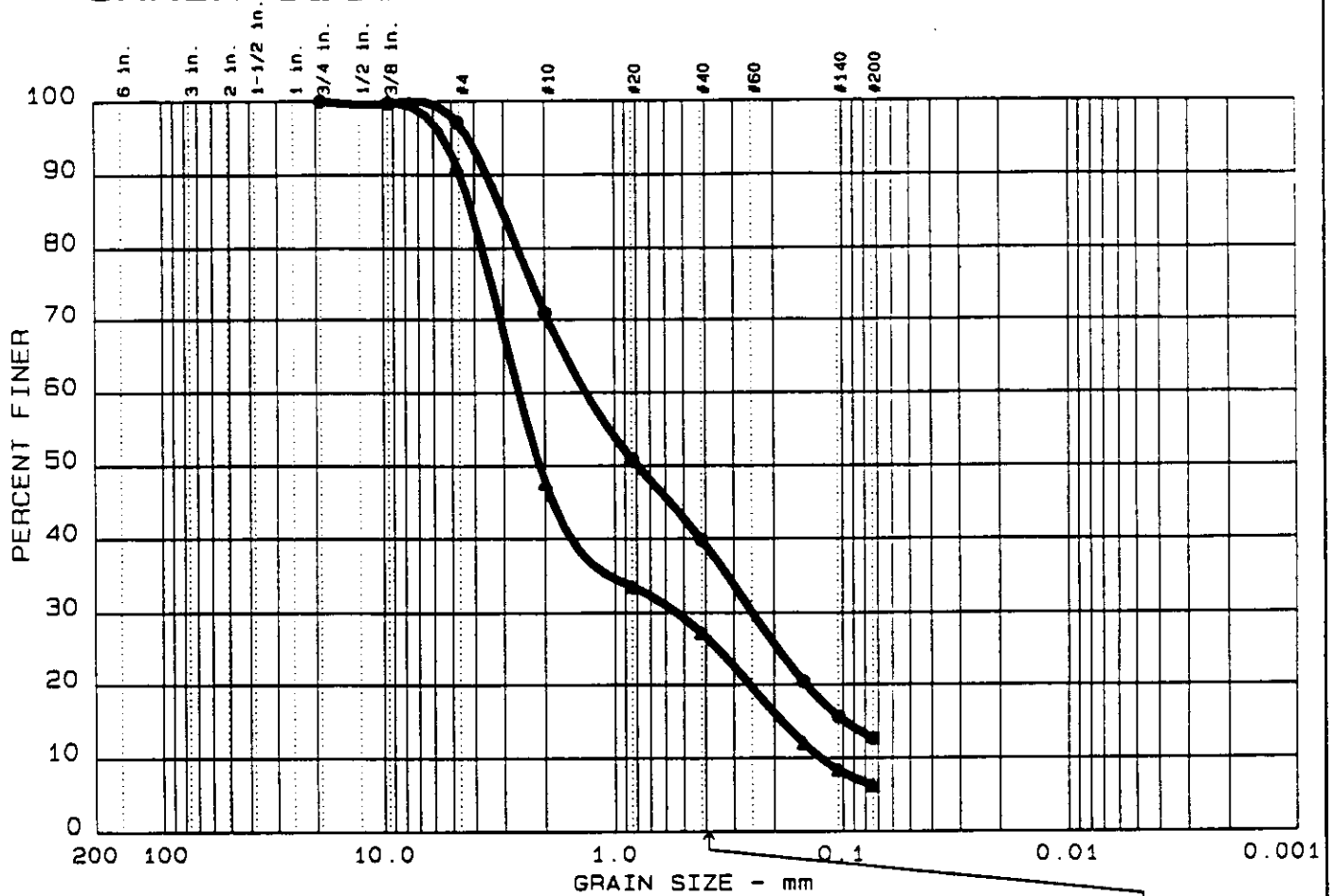
	Initial	
Dry sample and tare=	548.50	
Tare =	164.60	
Dry sample weight =	383.90	
Tare for cumulative weight retained=	228	
Sieve	Cumul. Wt. retained	Percent finer
0.375 inches	228.00	100.0
# 4	262.10	91.1
# 10	429.10	47.6
# 20	483.00	33.6
# 40	507.30	27.2
# 100	566.00	12.0
# 140	580.00	8.3
# 200	588.00	6.2

Fractional Components

% + 75mm. = 0.0      % GRAVEL = 8.9      % SAND = 84.9  
 % FINES = 6.2

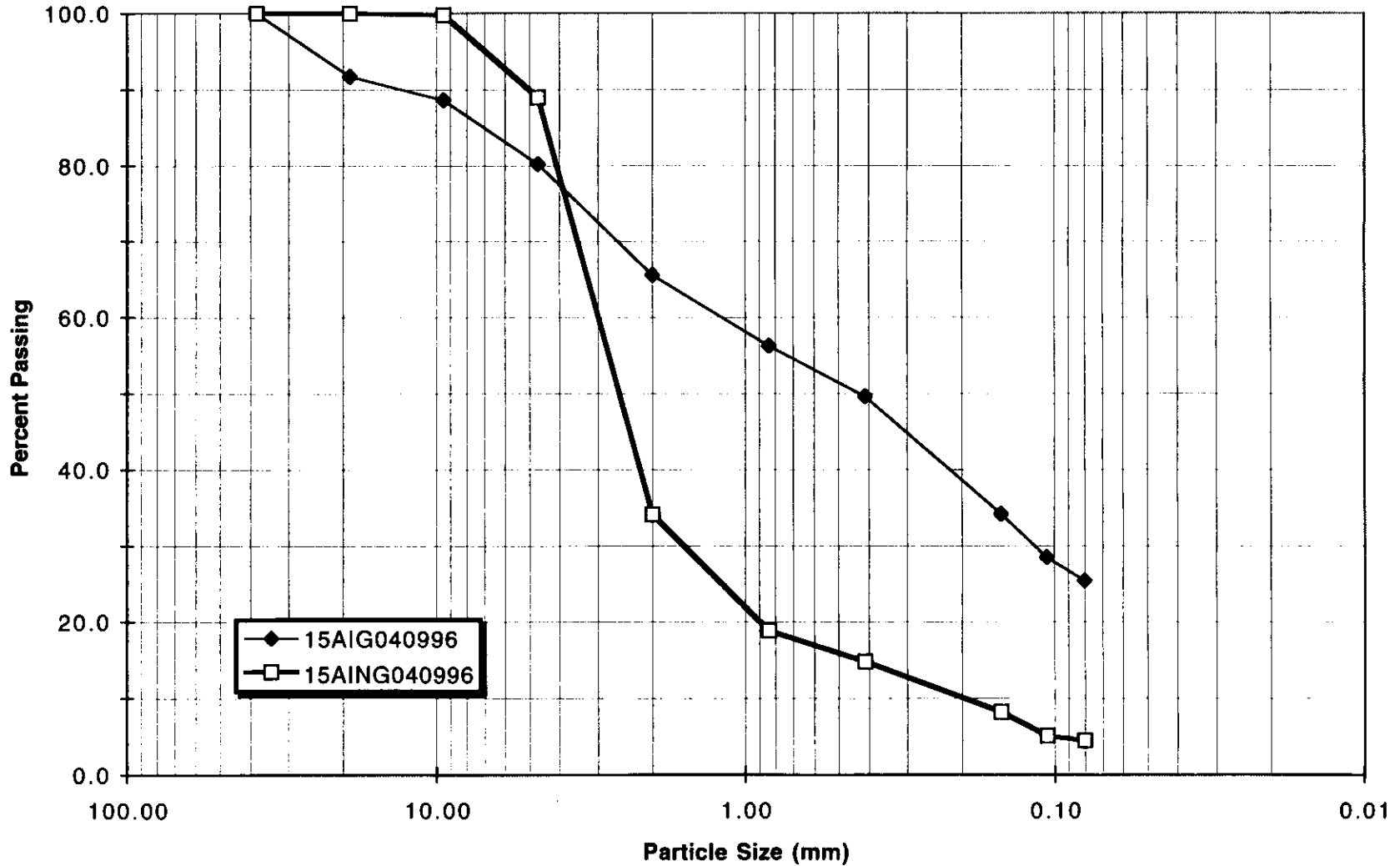
D85= 4.10    D60= 2.585    D50= 2.116  
 D30= 0.5254    D15= 0.18429    D10= 0.12604  
 Cc = 0.8472    Cu = 20.5116

# GRAIN SIZE DISTRIBUTION TEST REPORT



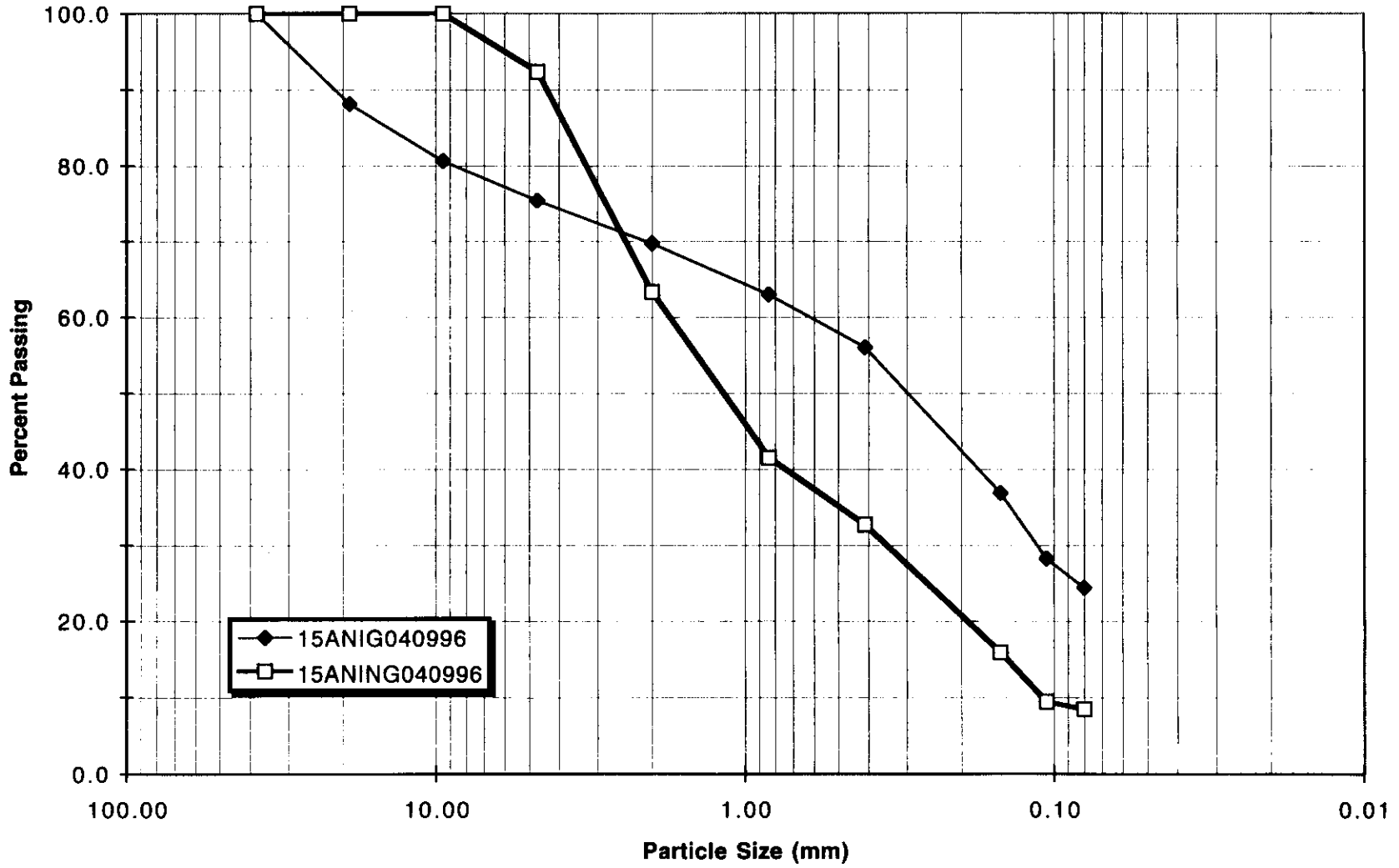
# GRAIN SIZE DISTRIBUTION TEST REPORT

## Street Sediment Loads Project



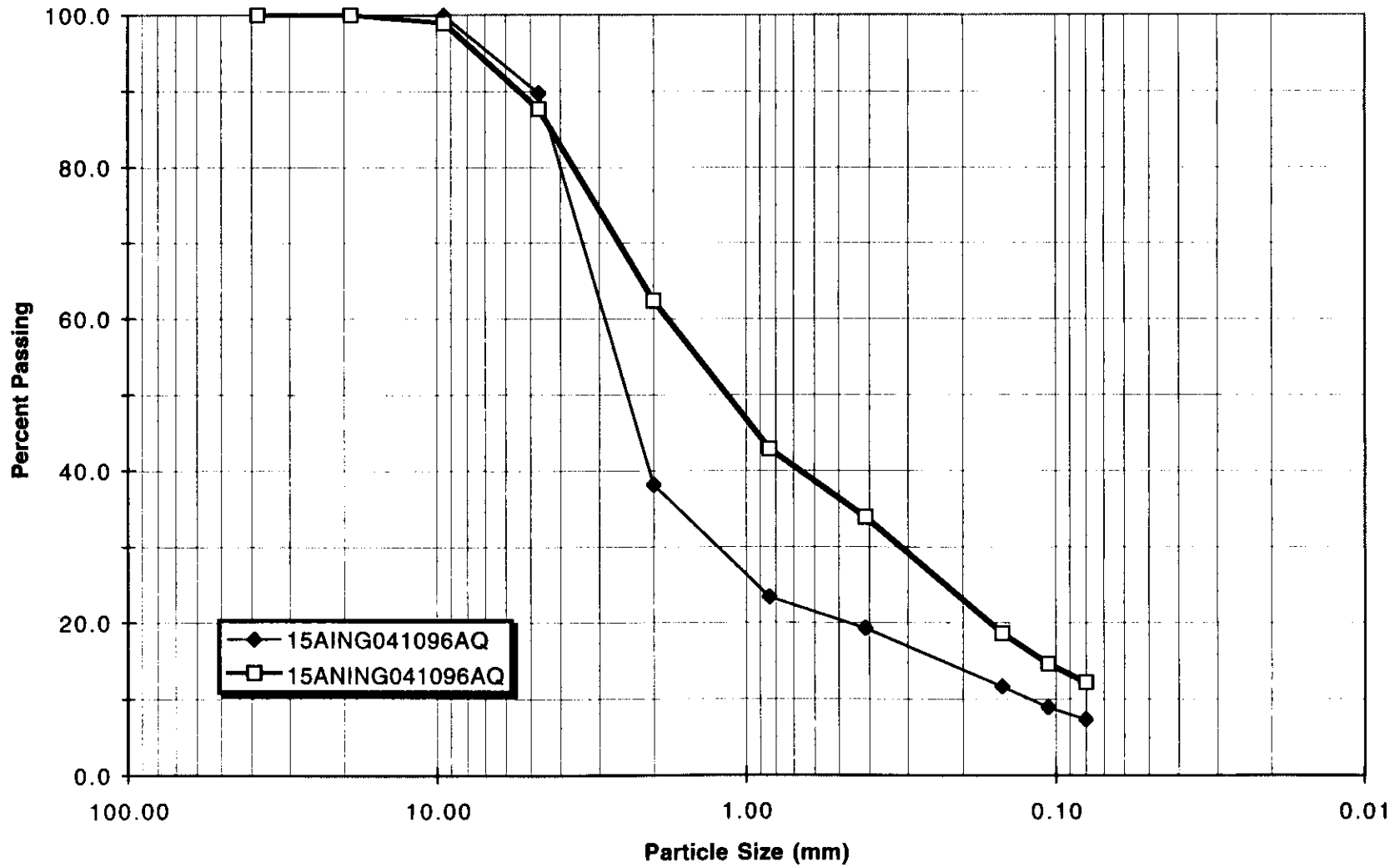
# GRAIN SIZE DISTRIBUTION TEST REPORT

## Street Sediment Loads Project



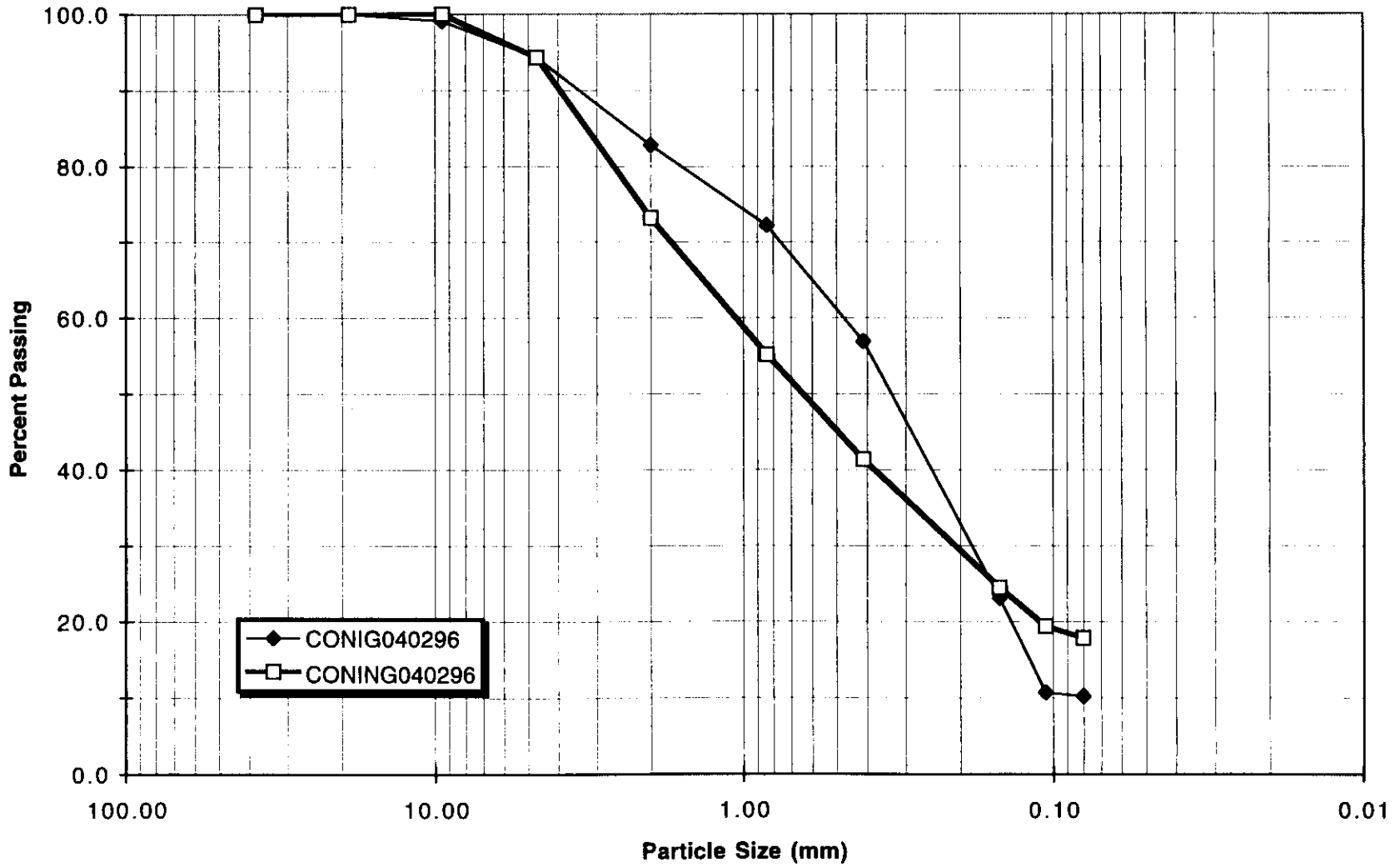
# GRAIN SIZE DISTRIBUTION TEST REPORT

## Street Sediment Loads Project



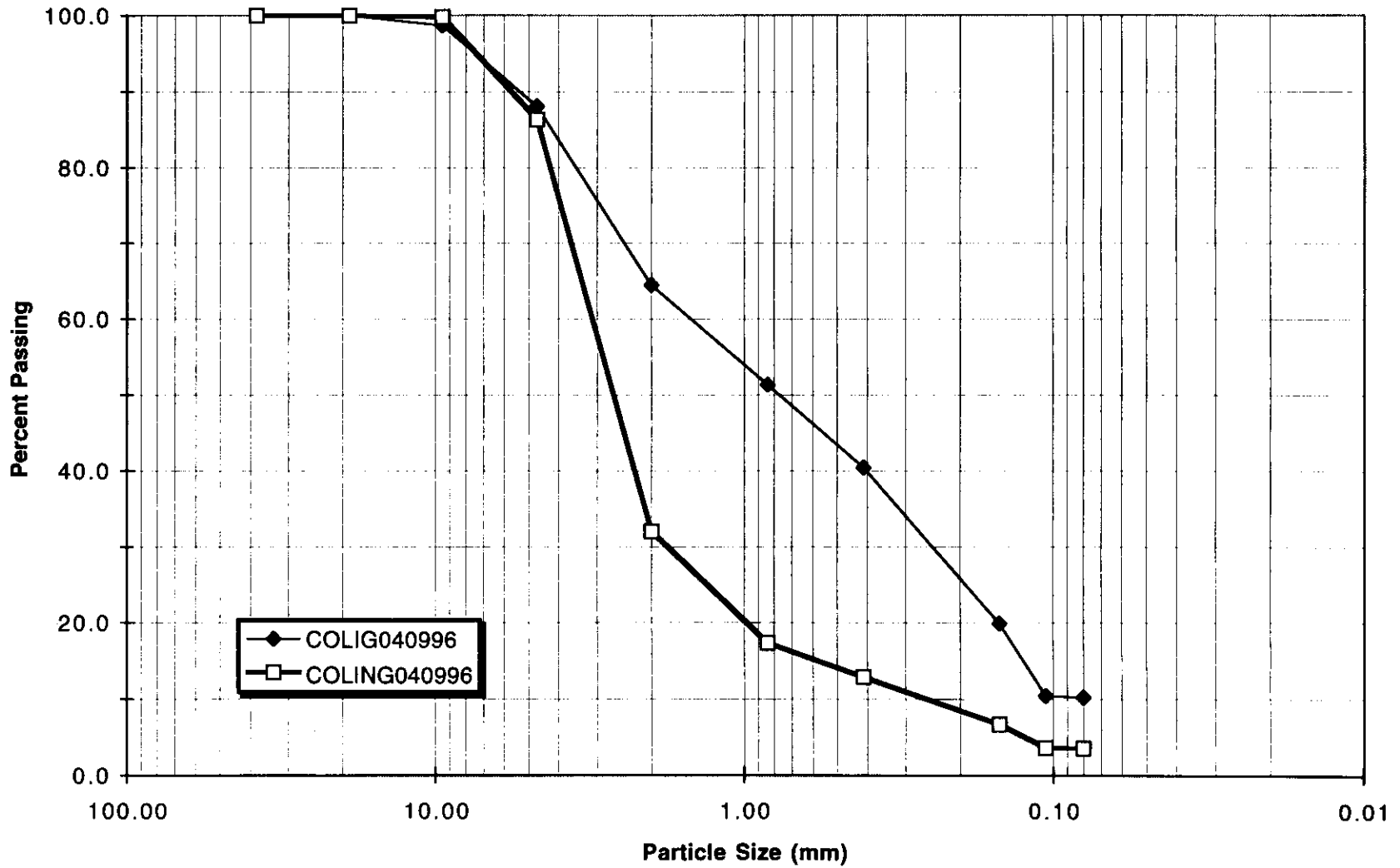
# GRAIN SIZE DISTRIBUTION TEST REPORT

## Street Sediment Loads Project



# GRAIN SIZE DISTRIBUTION TEST REPORT

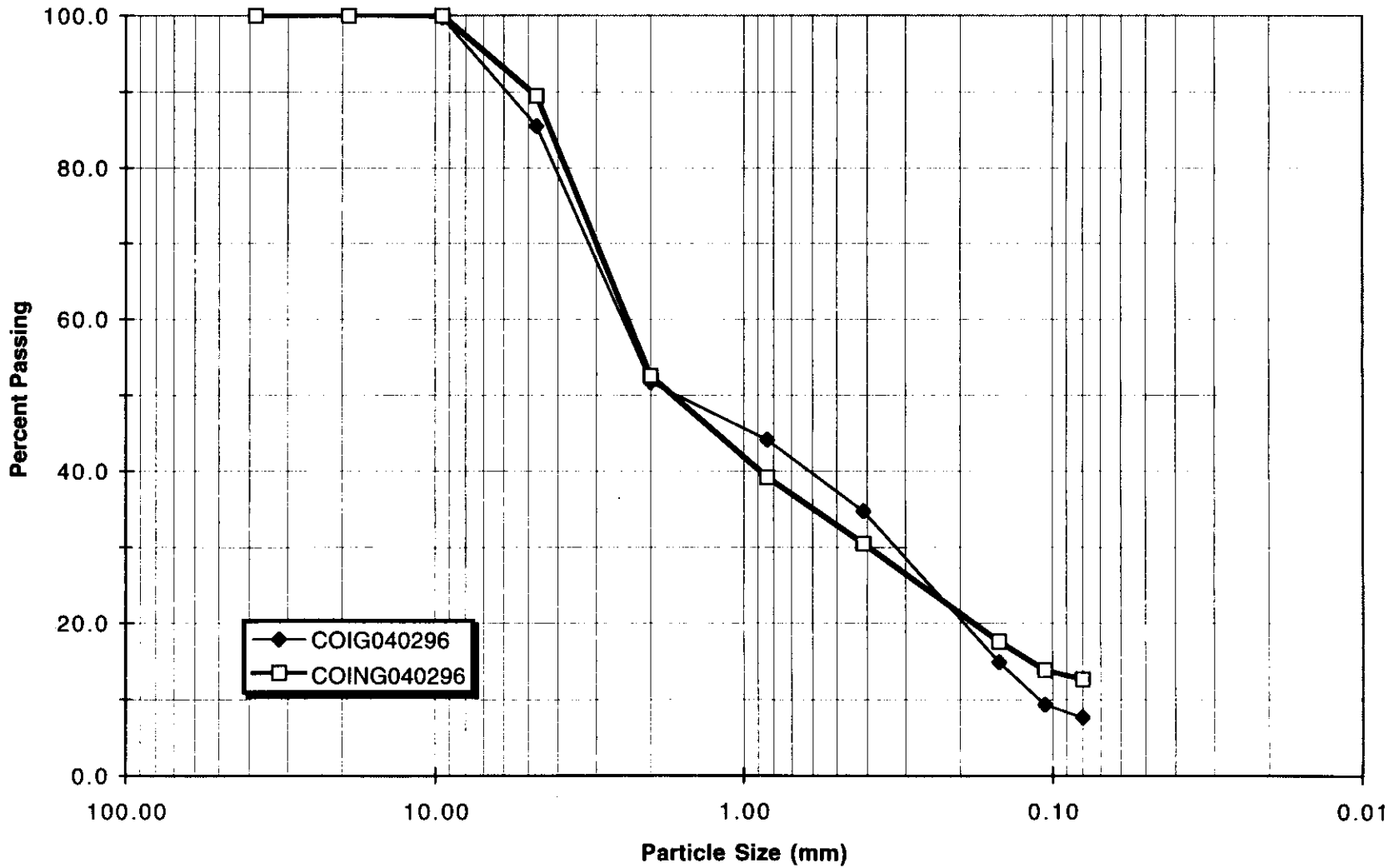
## Street Sediment Loads Project





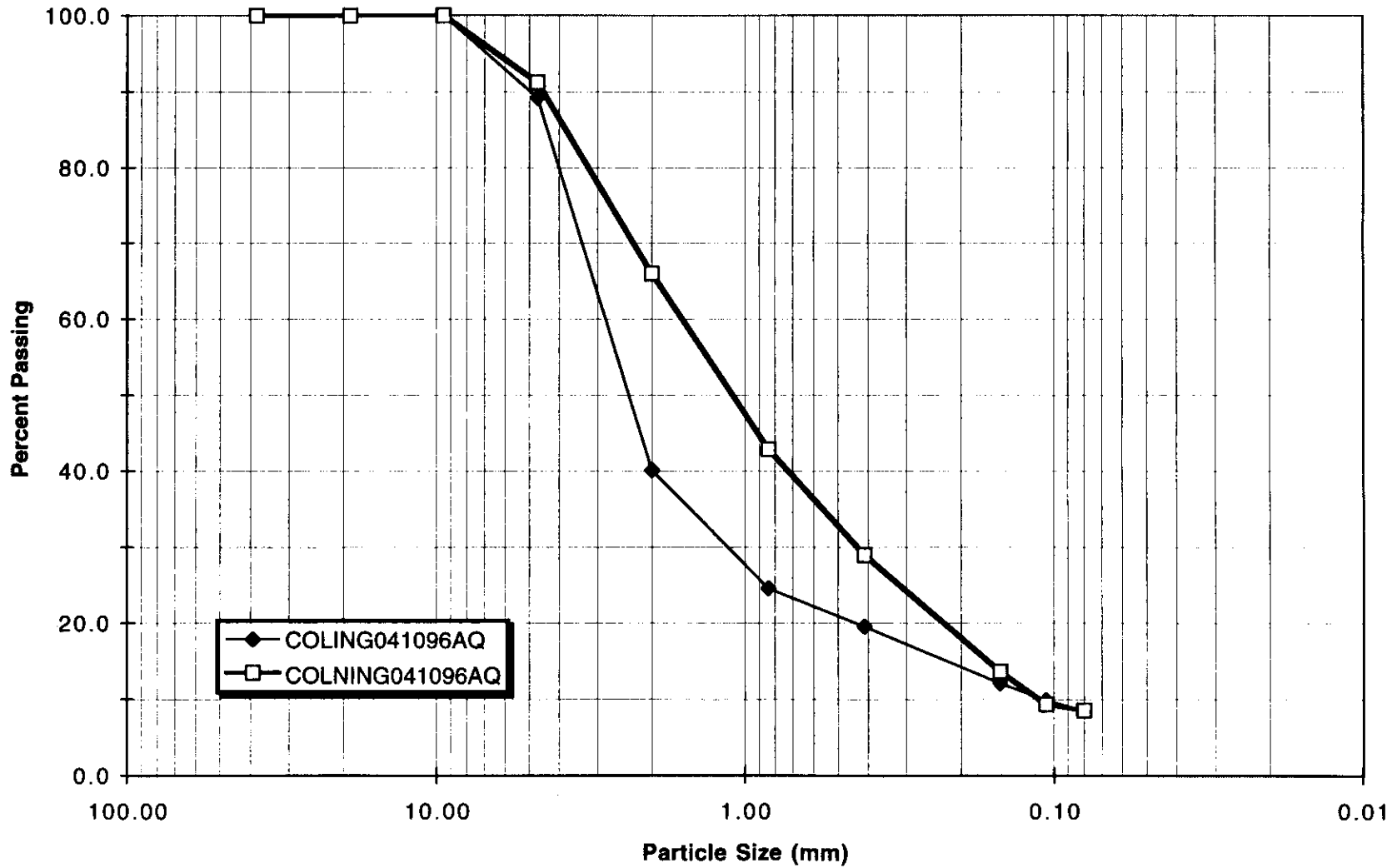
# GRAIN SIZE DISTRIBUTION TEST REPORT

## Street Sediment Loads Project



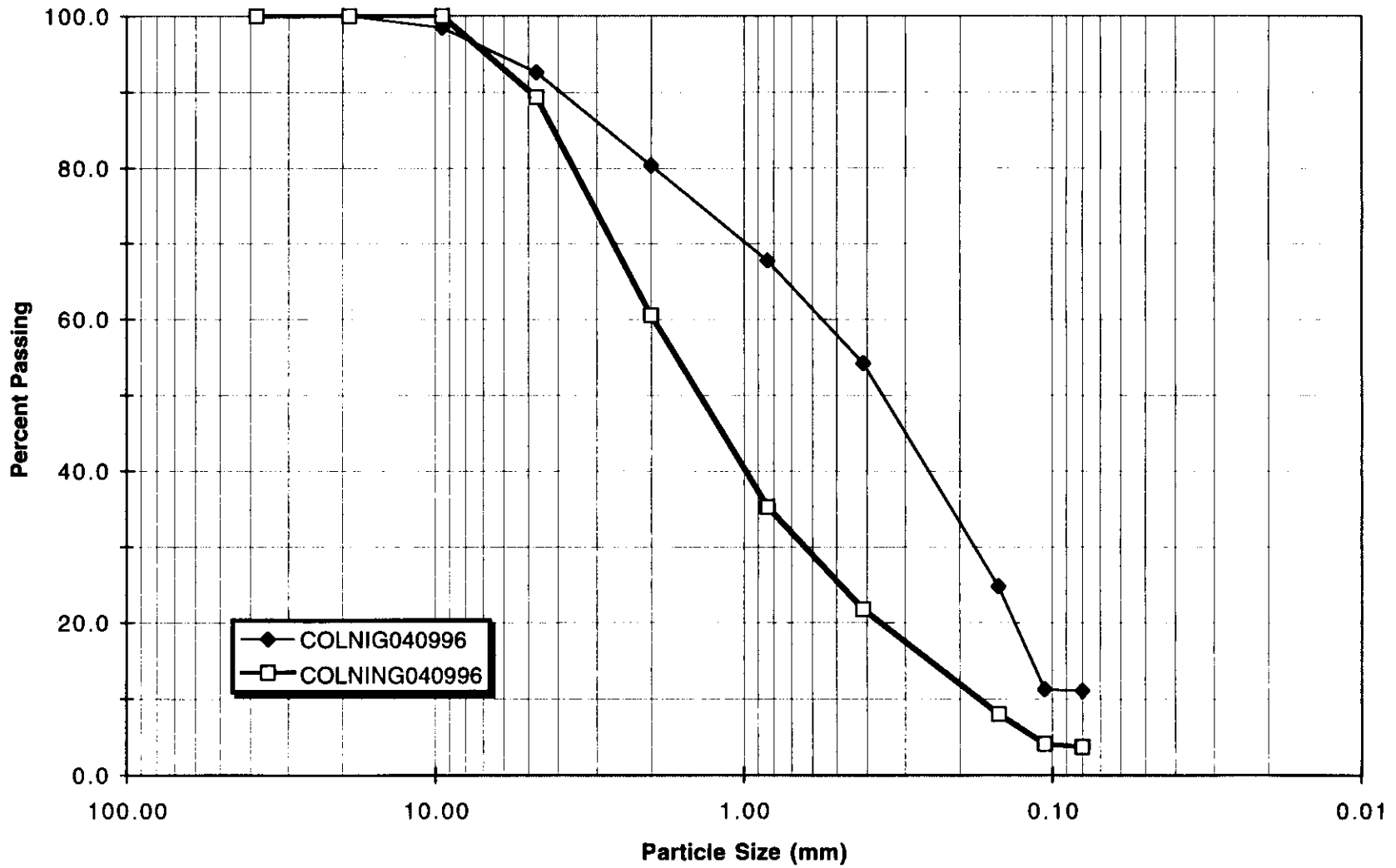
# GRAIN SIZE DISTRIBUTION TEST REPORT

## Street Sediment Loads Project



# GRAIN SIZE DISTRIBUTION TEST REPORT

## Street Sediment Loads Project



GRAIN SIZE DISTRIBUTION TEST DATA

Test No.: 7

Date: 4-29-95  
 Project No.: 1801.0441  
 Project: STREET SEDIMENT SAMPLING

Sample Data

Location of Sample: DMIG032296  
 Sample Description: POORLY GRADED SAND WITH SILT  
 USCS Class: SP-SM                      Liquid limit:  
 AASHTO Class:                              Plasticity index:

Notes

Remarks:

Fig. No.: 14

Mechanical Analysis Data

	Initial	
Dry sample and tare=	885.60	
Tare =	169.00	
Dry sample weight =	716.60	
Tare for cumulative weight retained=	224.5	
	Cumul. Wt.	Percent
Sieve	retained	finer
0.75 inches	224.50	100.0
0.375 inches	230.70	99.1
# 4	267.70	94.0
# 10	403.60	75.0
# 20	522.50	58.4
# 40	636.50	42.5
# 100	811.50	18.1
# 140	850.00	12.7
# 200	862.00	11.0

Fractional Components

% + 75mm. = 0.0      % GRAVEL = 6.0      % SAND = 82.9  
 % FINES = 11.1

D85= 3.05    D60= 0.902    D50= 0.569  
 D30= 0.2541    D15= 0.12445

GRAIN SIZE DISTRIBUTION TEST DATA

Test No.: 8

Date: 4-29-95  
 Project No.: 1801.0441  
 Project: STREET SEDIMENT SAMPLING

Sample Data

Location of Sample: DMING032296  
 Sample Description: WELL GRADED SAND WITH SILT  
 USCS Class: SW-SM Liquid limit:  
 AASHTO Class: Plasticity index:

Notes

Remarks:

Fig. No.:

Mechanical Analysis Data

Initial  
 Dry sample and tare= 1788.70  
 Tare = 352.40  
 Dry sample weight = 1436.30  
 Tare for cumulative weight retained= 352.4

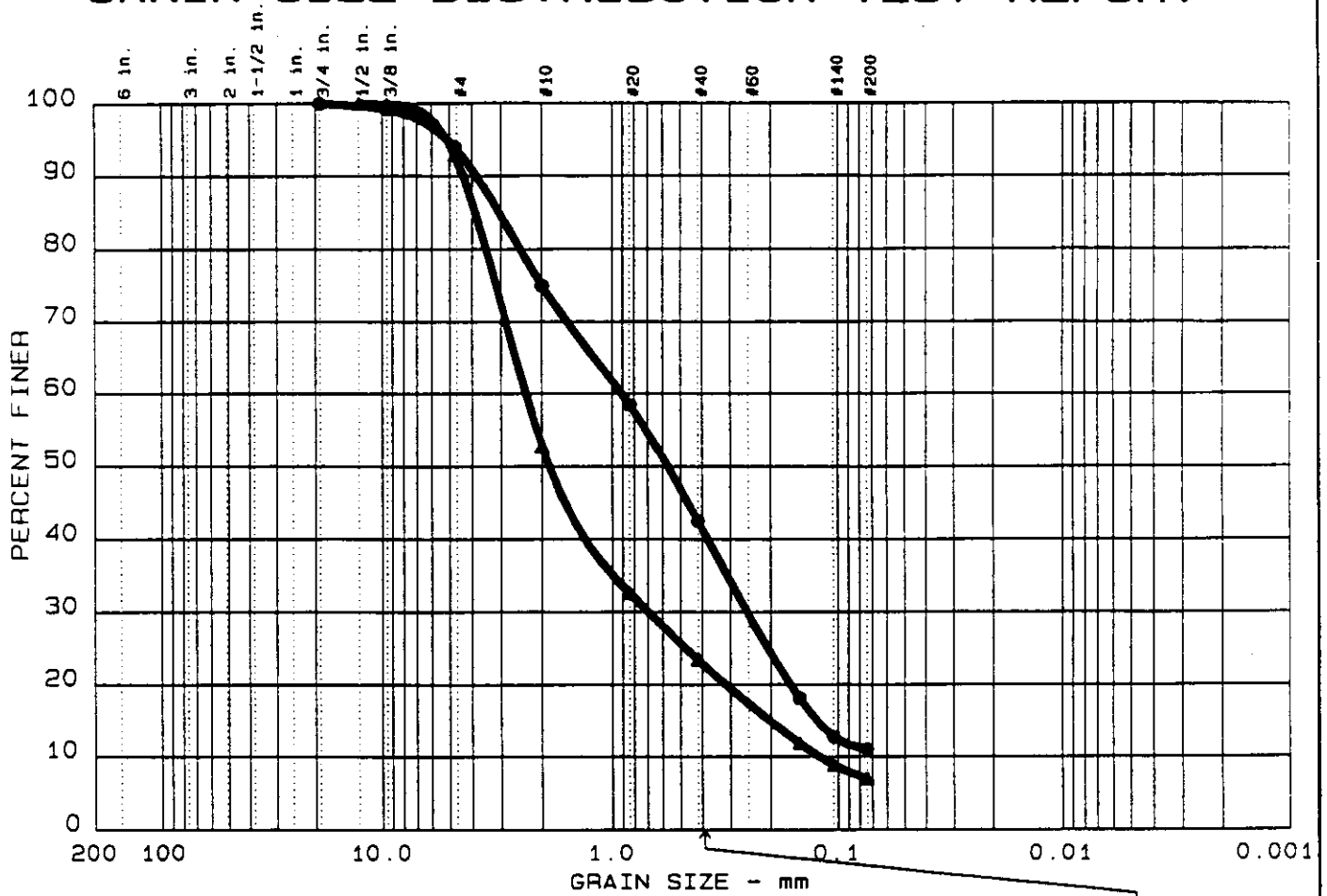
sieve	Cumul. Wt. retained	Percent finer
0.5 inches	352.40	100.0
0.375 inches	354.10	99.9
# 4	455.00	92.9
# 10	1032.10	52.7
# 20	1320.30	32.6
# 40	1451.90	23.4
# 100	1618.90	11.8
# 140	1662.60	8.8
# 200	1688.90	6.9

Fractional Components

% + 75mm. = 0.0    % GRAVEL = 7.1    % SAND = 85.9  
 % FINES = 7.0

D85= 3.87    D60= 2.350    D50= 1.866  
 D30= 0.6934    D15= 0.20230    D10= 0.12190  
 Cc = 1.6788    Cu = 19.2752

# GRAIN SIZE DISTRIBUTION TEST REPORT



Test	%+75mm	% GRAVEL	% SAND	% SILT	% CLAY
● 7	0.0	6.0	82.9	11.1	
▲ 8	0.0	7.1	85.9	7.0	

LL	PI	D <sub>85</sub>	D <sub>60</sub>	D <sub>50</sub>	D <sub>30</sub>	D <sub>15</sub>	D <sub>10</sub>	C <sub>c</sub>	C <sub>u</sub>
●		3.05	0.90	0.57	0.254	0.1245			
▲		3.87	2.35	1.87	0.693	0.2023	0.1219	1.68	19.3

MATERIAL DESCRIPTION	USCS	AASHTO
● POORLY GRADED SAND WITH SILT	SP-SM	
▲ WELL GRADED SAND WITH SILT	SW-SM	

Project No.: 1801.0441  
 Project: STREET SEDIMENT SAMPLING  
 ● Location: DMIG032296  
 ▲ Location: DMING032296  
 Date: 4-29-95

Remarks:

GRAIN SIZE DISTRIBUTION TEST REPORT  
**RODNEY P. KINNEY ASSOCIATES**

Figure No. 14

GRAIN SIZE DISTRIBUTION TEST DATA

Test No.: 9

Date: 4-29-95  
 Project No.: 1801.0441  
 Project: STREET SEDIMENT SAMPLING

Sample Data

Location of Sample: EIG032796  
 Sample Description: POORLY GRADED SAND  
 USCS Class: SP                      Liquid limit:  
 AASHTO Class:                      Plasticity index:

Notes

Remarks:

Fig. No.: 15

Mechanical Analysis Data

Initial  
 Dry sample and tare= 1962.50  
 Tare = 226.40  
 Dry sample weight = 1736.10  
 Tare for cumulative weight retained= 226.4

ave	Cumul. Wt. retained	Percent finer
0.75 inches	226.40	100.0
0.375 inches	231.40	99.7
# 4	425.80	88.5
# 10	928.70	59.5
# 20	1170.00	45.6
# 40	1441.00	30.0
# 100	1722.30	13.8
# 140	1884.60	4.5
# 200	1899.10	3.7

Fractional Components

% + 75mm. = 0.0      % GRAVEL = 11.5      % SAND = 84.9  
 % FINES = 3.6

D85= 4.24    D60= 2.030    D50= 1.116  
 D30= 0.4188    D15= 0.15560    D10= 0.13077  
 Cc = 0.6607    Cu = 15.5239

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**GRAIN SIZE DISTRIBUTION TEST DATA**

Test No.: 10

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 Date: 4-29-95  
 Project No.: 1801.0441  
 Project: STREET SEDIMENT SAMPLING
 

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**Sample Data**


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 Location of Sample: EING032796  
 Sample Description: POORLY GRADED SAND  
 USCS Class: SP                      Liquid limit:  
 AASHTO Class:                      Plasticity index:
 

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**Notes**


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 Remarks:
 

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 Fig. No.:
 

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**Mechanical Analysis Data**


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	Initial	
Dry sample and tare=	250.80	
Tare =	164.30	
Dry sample weight =	86.50	
Tare for cumulative weight retained=	230	
sieve	Cumul. Wt. retained	Percent finer
0.375 inches	230.00	100.0
# 4	232.30	97.3
# 10	259.80	65.5
# 20	290.70	29.8
# 40	305.50	12.7
# 100	315.70	0.9
# 140	316.50	0.0
# 200	316.50	0.0

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**Fractional Components**


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 % + 75mm. = 0.0      % GRAVEL = 2.7      % SAND = 97.3
 

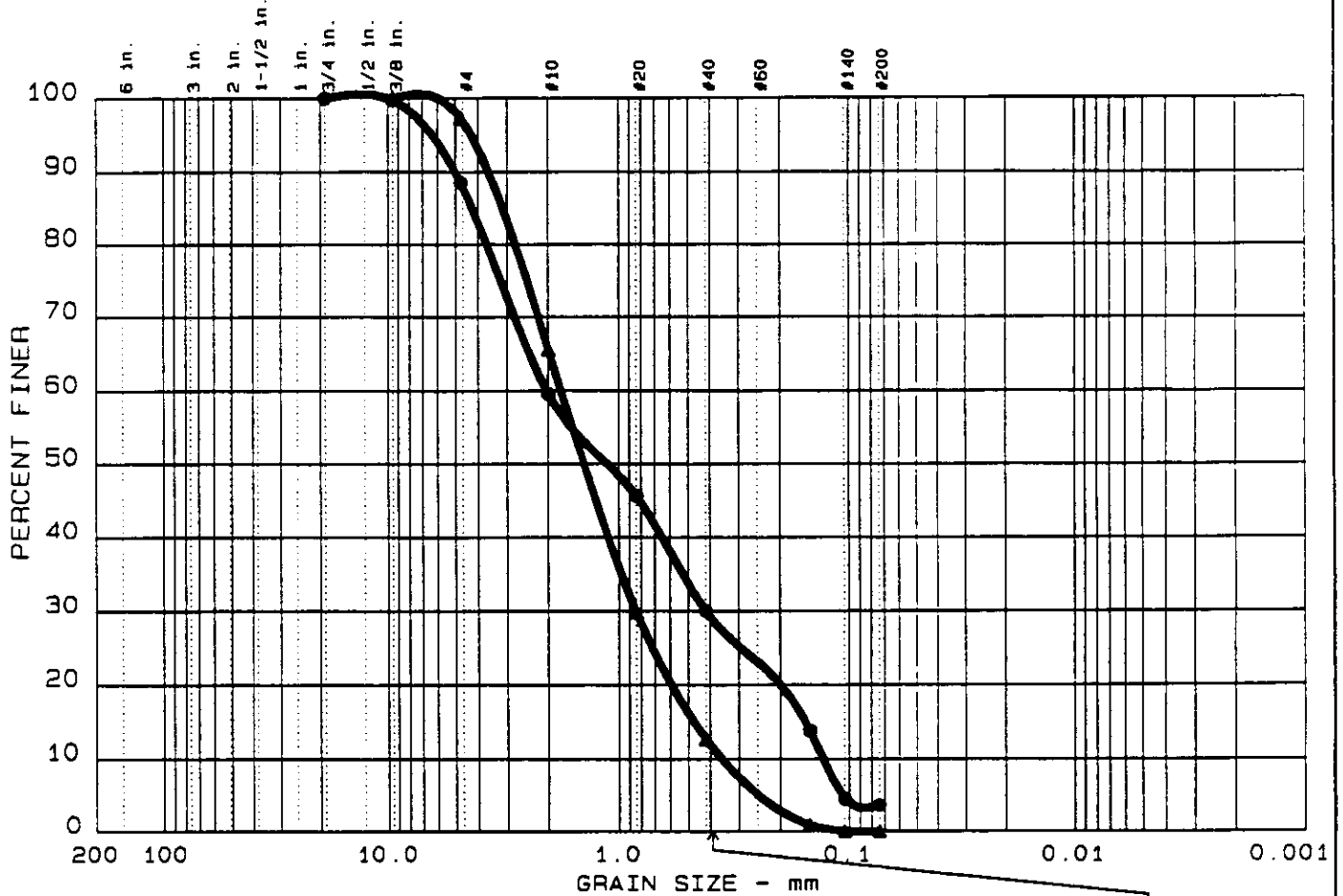
---

 D85= 3.13    D60= 1.768    D50= 1.413  
 D30= 0.8414    D15= 0.47315    D10= 0.35481  
 Cc = 1.1285    Cu = 4.9831
 

---



# GRAIN SIZE DISTRIBUTION TEST REPORT



Test	%+75 mm	% GRAVEL	% SAND	% SILT	% CLAY
● 9	0.0	11.5	84.9	3.6	
▲ 10	0.0	2.7	97.3	0.0	

	LL	PI	D <sub>85</sub>	D <sub>60</sub>	D <sub>50</sub>	D <sub>30</sub>	D <sub>15</sub>	D <sub>10</sub>	C <sub>c</sub>	C <sub>u</sub>
●			4.24	2.03	1.12	0.419	0.1556	0.1308	0.66	15.5
▲			3.13	1.77	1.41	0.841	0.4732	0.3548	1.13	5.0

MATERIAL DESCRIPTION	USCS	AASHTO
● POORLY GRADED SAND	SP	
▲ POORLY GRADED SAND	SP	

Project No.: 1801.0441  
 Project: STREET SEDIMENT SAMPLING  
 ● Location: EIG032796  
 ▲ Location: EING032796  
 Date: 4-29-95

Remarks:

GRAIN SIZE DISTRIBUTION TEST REPORT  
**RODNEY P. KINNEY ASSOCIATES**

Figure No. 15

GRAIN SIZE DISTRIBUTION TEST DATA

Test No.: 11

Date: 4-29-95  
 Project No.: 1801.0441  
 Project: STREET SEDIMENT SAMPLING

Sample Data

Location of Sample: ENIG032796  
 Sample Description: POORLY GRADED SAND WITH SILT  
 USCS Class: SP-SM                      Liquid limit:  
 AASHTO Class:                          Plasticity index:

Notes

Remarks:

Fig. No.: 16

Mechanical Analysis Data

Initial  
 Dry sample and tare= 1189.60  
 Tare = 223.30  
 Dry sample weight = 966.30  
 Tare for cumulative weight retained= 223.3

sieve	Cumul. Wt. retained	Percent finer
0.75 inches	223.30	100.0
0.375 inches	235.40	98.7
# 4	350.60	86.8
# 10	580.00	63.1
# 20	759.80	44.5
# 40	909.70	29.0
# 100	1081.90	11.1
# 140	1114.20	7.8
# 200	1122.90	6.9

Fractional Components

% + 75mm. = 0.0      % GRAVEL = 13.2      % SAND = 79.9  
 % FINES = 6.9

D85= 4.42    D60= 1.758    D50= 1.096  
 D30= 0.4365    D15= 0.19498    D10= 0.13490  
 Cc = 0.8035    Cu = 13.0317

GRAIN SIZE DISTRIBUTION TEST DATA

Test No.: 12

Date: 4-29-95  
 Project No.: 1801.0441  
 Project: STREET SEDIMENT SAMPLING

Sample Data

Location of Sample: ENING032796  
 Sample Description: POORLY GRADED SAND  
 JSCS Class: SP Liquid limit:  
 AASHTO Class: Plasticity index:

Notes

Remarks:

Fig. No.:

Mechanical Analysis Data

Initial  
 Dry sample and tare= 314.40  
 Tare = 237.50  
 Dry sample weight = 76.90  
 Tare for cumulative weight retained= 237.5

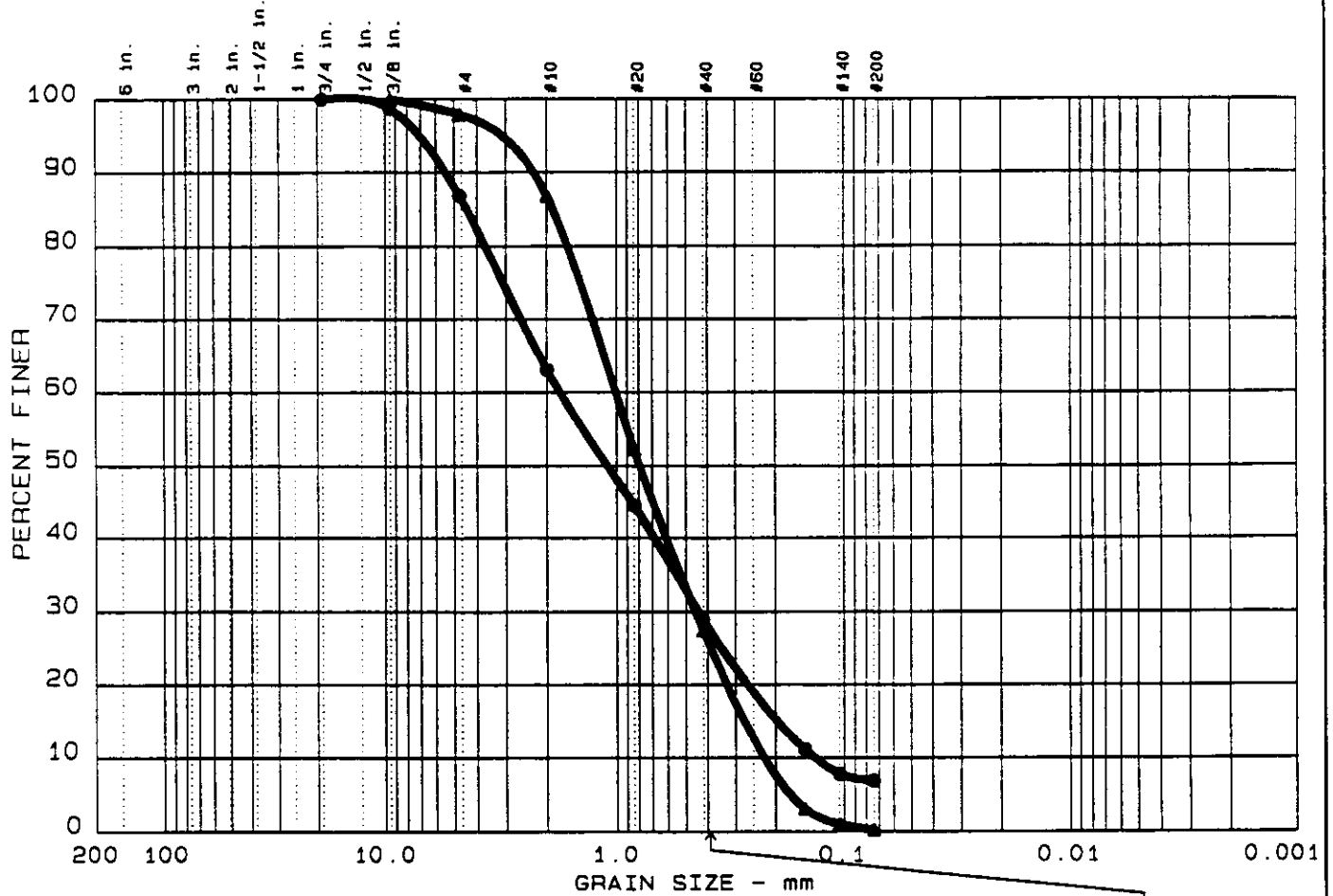
Size	Cumul. Wt. retained	Percent finer
0.375 inches	237.50	100.0
# 4	239.10	97.9
# 10	247.70	86.7
# 20	274.20	52.3
# 40	293.30	27.4
# 100	312.00	3.1
# 140	313.60	1.0
# 200	314.20	0.3

Fractional Components

% + 75mm. = 0.0    % GRAVEL = 2.1    % SAND = 97.7  
 % FINES = 0.2

D85= 1.88    D60= 1.007    D50= 0.791  
 D30= 0.4545    D15= 0.27384    D10= 0.22491  
 Cc = 0.9120    Cu = 4.4771

# GRAIN SIZE DISTRIBUTION TEST REPORT



Test	%+75 mm	% GRAVEL	% SAND	% SILT	% CLAY
● 11	0.0	13.2	79.9	6.9	
▲ 12	0.0	2.1	97.7	0.2	

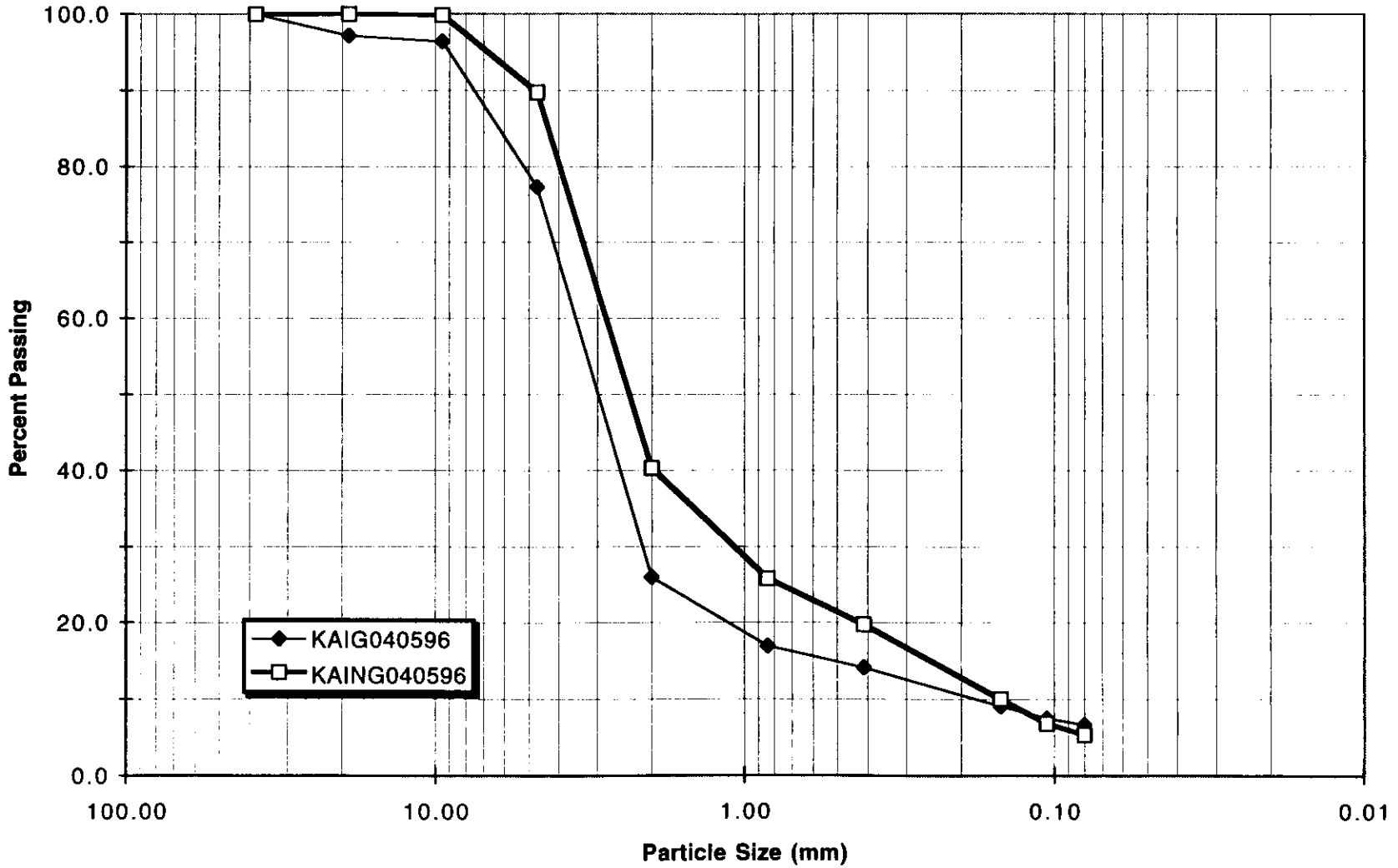
	LL	PI	D <sub>85</sub>	D <sub>60</sub>	D <sub>50</sub>	D <sub>30</sub>	D <sub>15</sub>	D <sub>10</sub>	C <sub>c</sub>	C <sub>u</sub>
●			4.42	1.76	1.10	0.437	0.1950	0.1349	0.80	13.0
▲			1.88	1.01	0.79	0.454	0.2738	0.2249	0.91	4.5

MATERIAL DESCRIPTION	USCS	AASHTO
● POORLY GRADED SAND WITH SILT	SP-SM	
▲ POORLY GRADED SAND	SP	

<p>Project No.: 1801.0441                  Project: STREET SEDIMENT SAMPLING                  ● Location: ENIG032796                  ▲ Location: ENING032796</p> <p>Date: 4-29-95</p>	<p>Remarks:</p>
GRAIN SIZE DISTRIBUTION TEST REPORT <b>RODNEY P. KINNEY ASSOCIATES</b>	
Figure No. 16	

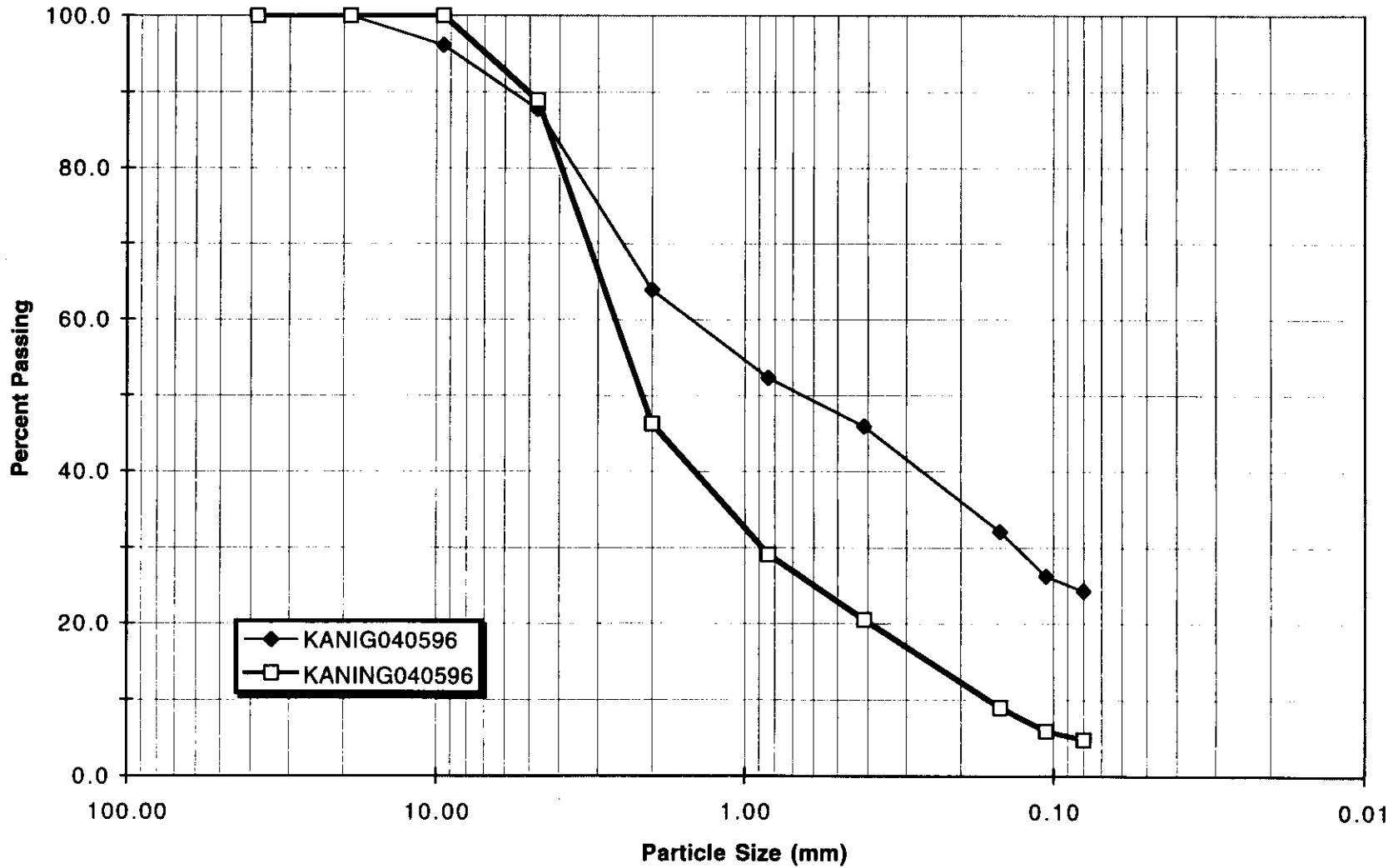
# GRAIN SIZE DISTRIBUTION TEST REPORT

## Street Sediment Loads Project



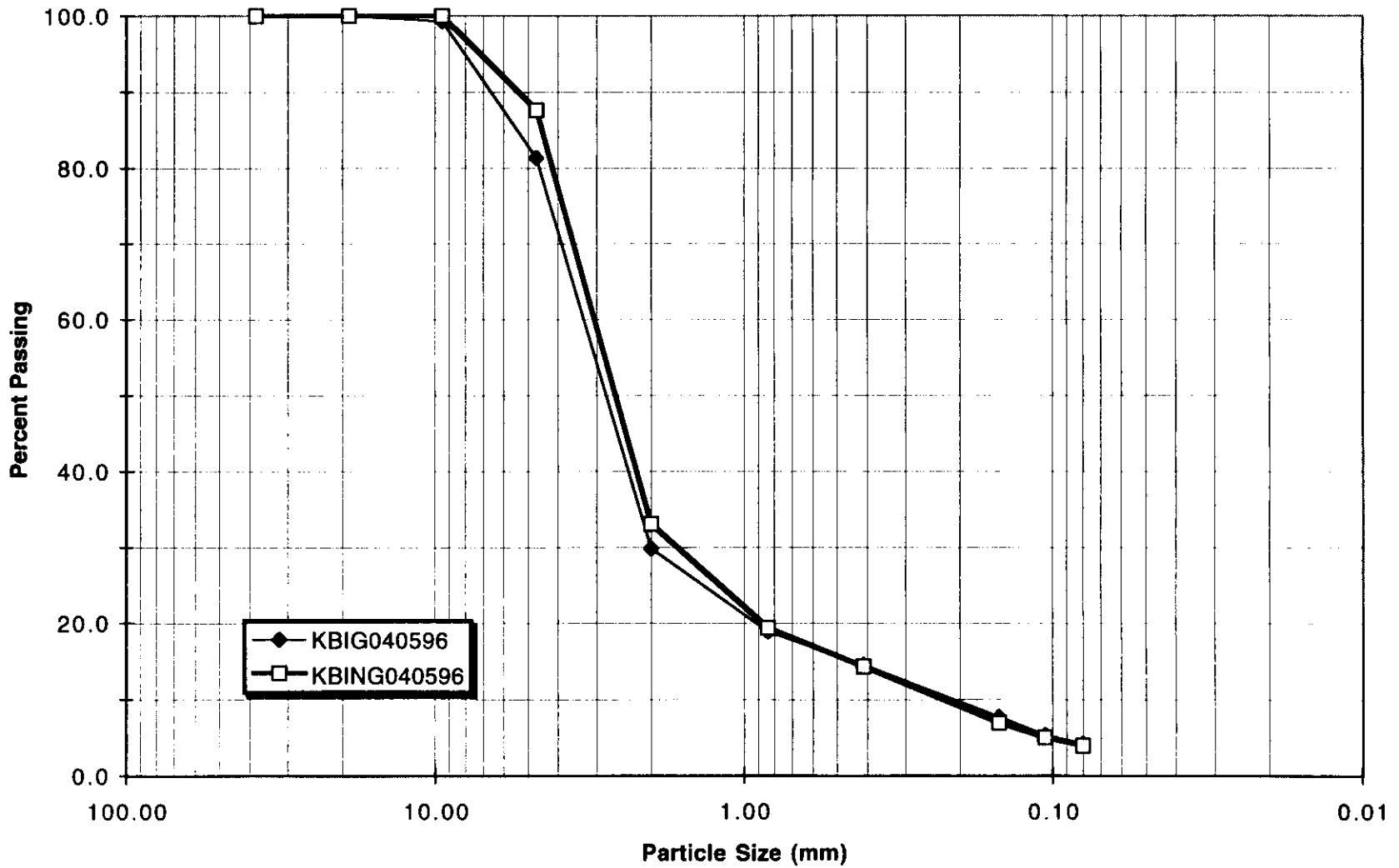
# GRAIN SIZE DISTRIBUTION TEST REPORT

## Street Sediment Loads Project



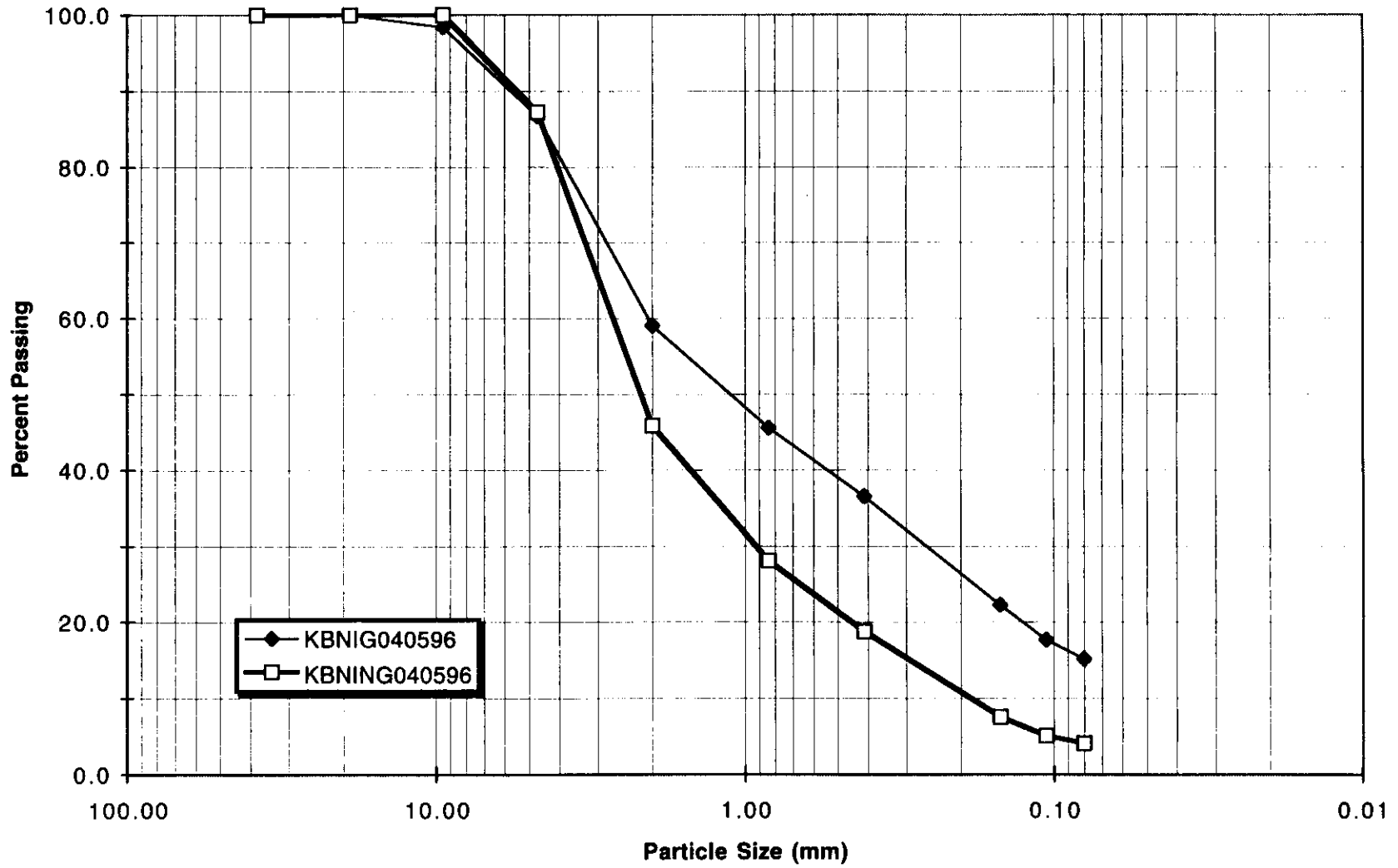
# GRAIN SIZE DISTRIBUTION TEST REPORT

## Street Sediment Loads Project



# GRAIN SIZE DISTRIBUTION TEST REPORT

## Street Sediment Loads Project





GRAIN SIZE DISTRIBUTION TEST DATA

Test No.: 7

Date: 4-29-95  
 Project No.: 1801.0440  
 Project: OGS ASSESSMENT

Sample Data

Location of Sample: 9500311201 *W/Ls IG 032296*  
 Sample Description: POORLY GRADED SAND  
 USCS Class: SP Liquid limit:  
 AASHTO Class: Plasticity index:

Notes

Remarks:

Fig. No.: 4

Mechanical Analysis Data

	Initial	
Dry sample and tare=	1891.20	
Tare =	161.90	
Dry sample weight =	1729.30	
Tare for cumulative weight retained=	161.9	
sieve	Cumul. Wt. retained	Percent finer
0.5 inches	161.90	100.0
0.375 inches	211.10	97.2
# 4	340.40	89.7
# 10	697.30	69.0
# 20	1089.90	46.3
# 40	1422.20	27.1
# 100	1763.70	7.4
# 140	1821.30	4.0
# 200	1838.40	3.1

Fractional Components

% + 75mm. = 0.0    % GRAVEL = 10.3    % SAND = 86.6  
 % FINES = 3.1

D85= 3.72    D60= 1.411    D50= 0.961  
 D30= 0.4683    D15= 0.24294    D10= 0.18009  
 Cc = 0.8630    Cu = 7.8343

GRAIN SIZE DISTRIBUTION TEST DATA

Test No.: 8

Date: 4-29-95  
 Project No.: 1801.0440  
 Project: OGS ASSESSMENT

Sample Data

Location of Sample: 9500311202 *NLts NIG 03 2296*  
 Sample Description: SILTY SAND  
 USCS Class: SM                      Liquid limit:  
 AASHTO Class:                      Plasticity index:

Notes

Remarks:

Fig. No.:

Mechanical Analysis Data

Initial  
 Dry sample and tare= 1676.00  
 Tare = 231.90  
 Dry sample weight = 1444.10  
 Tare for cumulative weight retained= 228

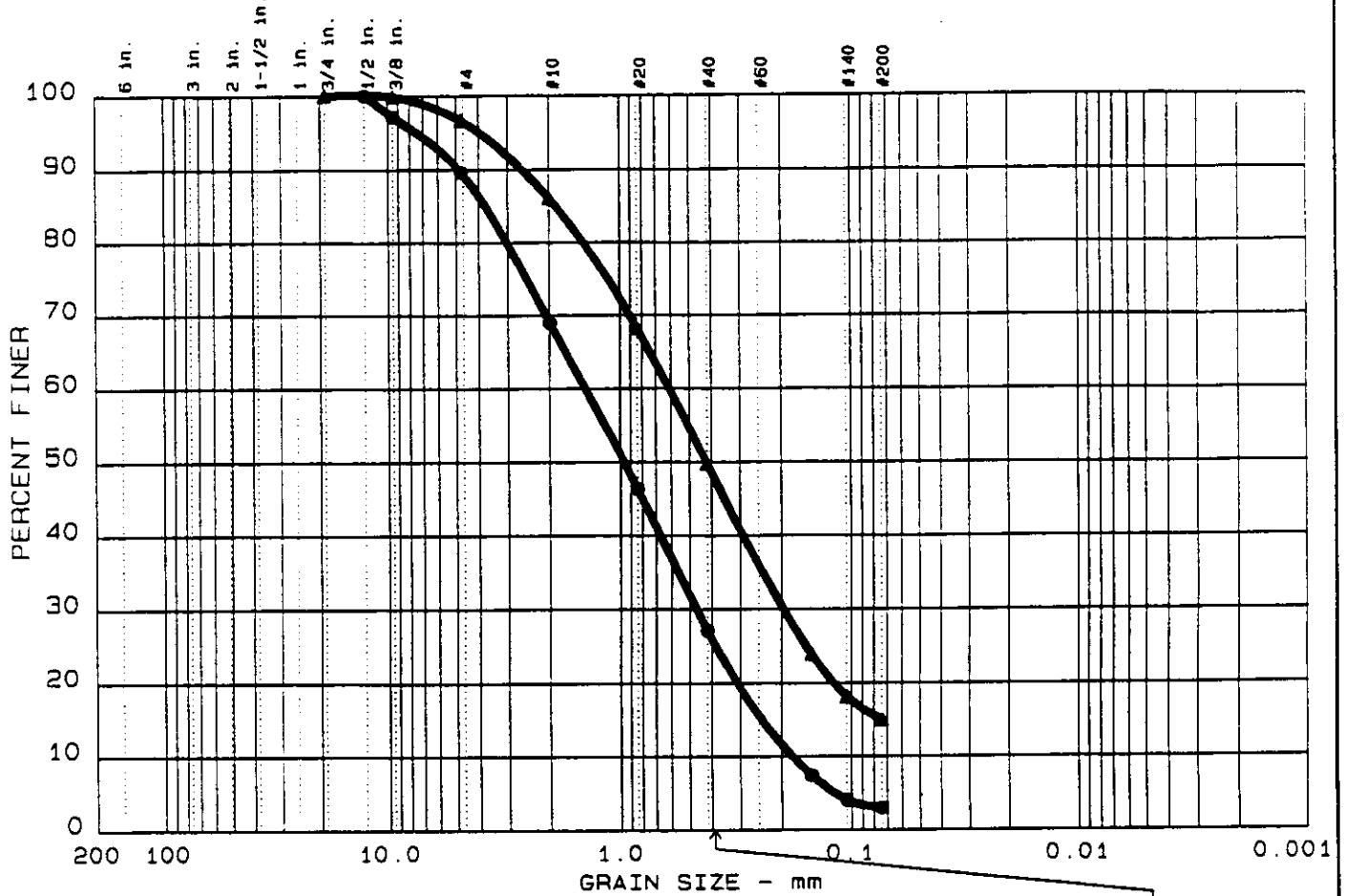
ave	Cumul. Wt. retained	Percent finer
0.75 inches	228.00	100.0
0.375 inches	229.80	99.9
# 4	276.50	96.6
# 10	430.00	86.0
# 20	687.30	68.2
# 40	953.10	49.8
# 100	1326.20	24.0
# 140	1410.50	18.1
# 200	1455.30	15.0

Fractional Components

% + 75mm. = 0.0      % GRAVEL = 3.4      % SAND = 81.6  
 % FINES = 15.0

D85= 1.86    D60= 0.610    D50= 0.422  
 D30= 0.1950

# GRAIN SIZE DISTRIBUTION TEST REPORT



Test	% +75 mm	% GRAVEL	% SAND	% SILT	% CLAY
● 7	0.0	10.3	86.6	3.1	
▲ 8	0.0	3.4	81.6	15.0	

	LL	PI	D <sub>85</sub>	D <sub>60</sub>	D <sub>50</sub>	D <sub>30</sub>	D <sub>15</sub>	D <sub>10</sub>	C <sub>c</sub>	C <sub>u</sub>
●			3.72	1.41	0.96	0.468	0.2429	0.1801	0.86	7.8
▲			1.86	0.61	0.42	0.195				

MATERIAL DESCRIPTION	USCS	AASHTO
● POORLY GRADED SAND	SP	
▲ SILTY SAND	SM	

Project No.: 1801.0440  
 Project: OGS ASSESSMENT  
 ● Location: 9500311201 (NLTSIG032296)  
 ▲ Location: 9500311202 (NLTS NIG032296)  
 Date: 4-29-95

Remarks:

Figure No. 4

GRAIN SIZE DISTRIBUTION TEST DATA

Test No.: 9

Date: 4-29-95  
 Project No.: 1801.0440  
 Project: OGS ASSESSMENT

Sample Data

Location of Sample: 9500311203 *NLTS ING 03 22 96*  
 Sample Description: POORLY GRADED SAND WITH SILT  
 USCS Class: SP-SM Liquid limit:  
 AASHTO Class: Plasticity index:

Notes

Remarks:

Fig. No.: 5

Mechanical Analysis Data

Initial  
 Dry sample and tare= 1166.00  
 Tare = 164.70  
 Dry sample weight = 1001.30  
 Tare for cumulative weight retained= 164.7

sieve	Cumul. Wt. retained	Percent finer
0.5 inches	164.70	100.0
0.375 inches	166.10	99.9
# 4	177.10	98.8
# 10	280.70	88.4
# 20	576.40	58.9
# 40	796.40	36.9
# 100	1074.40	9.1
# 140	1084.40	8.1
# 200	1110.90	5.5

Fractional Components

% + 75mm. = 0.0      % GRAVEL = 1.2      % SAND = 93.3  
 % FINES = 5.5

D85= 1.76    D60= 0.867    D50= 0.635  
 D30= 0.3412    D15= 0.20989    D10= 0.16106  
 Cc = 0.8337    Cu = 5.3827

GRAIN SIZE DISTRIBUTION TEST DATA

Test No.: 10

Date: 4-29-95  
 Project No.: 1801.0440  
 Project: OGS ASSESSMENT

Sample Data

Location of Sample: 9500311204 *NL45 NING 032276*  
 Sample Description: WELL GRADED SAND  
 USCS Class: SW Liquid limit:  
 AASHTO Class: Plasticity index:

Notes

Remarks:

Fig. No.:

Mechanical Analysis Data

Initial  
 Dry sample and tare= 363.60  
 Tare = 233.10  
 Dry sample weight = 130.50  
 Tare for cumulative weight retained= 233.1

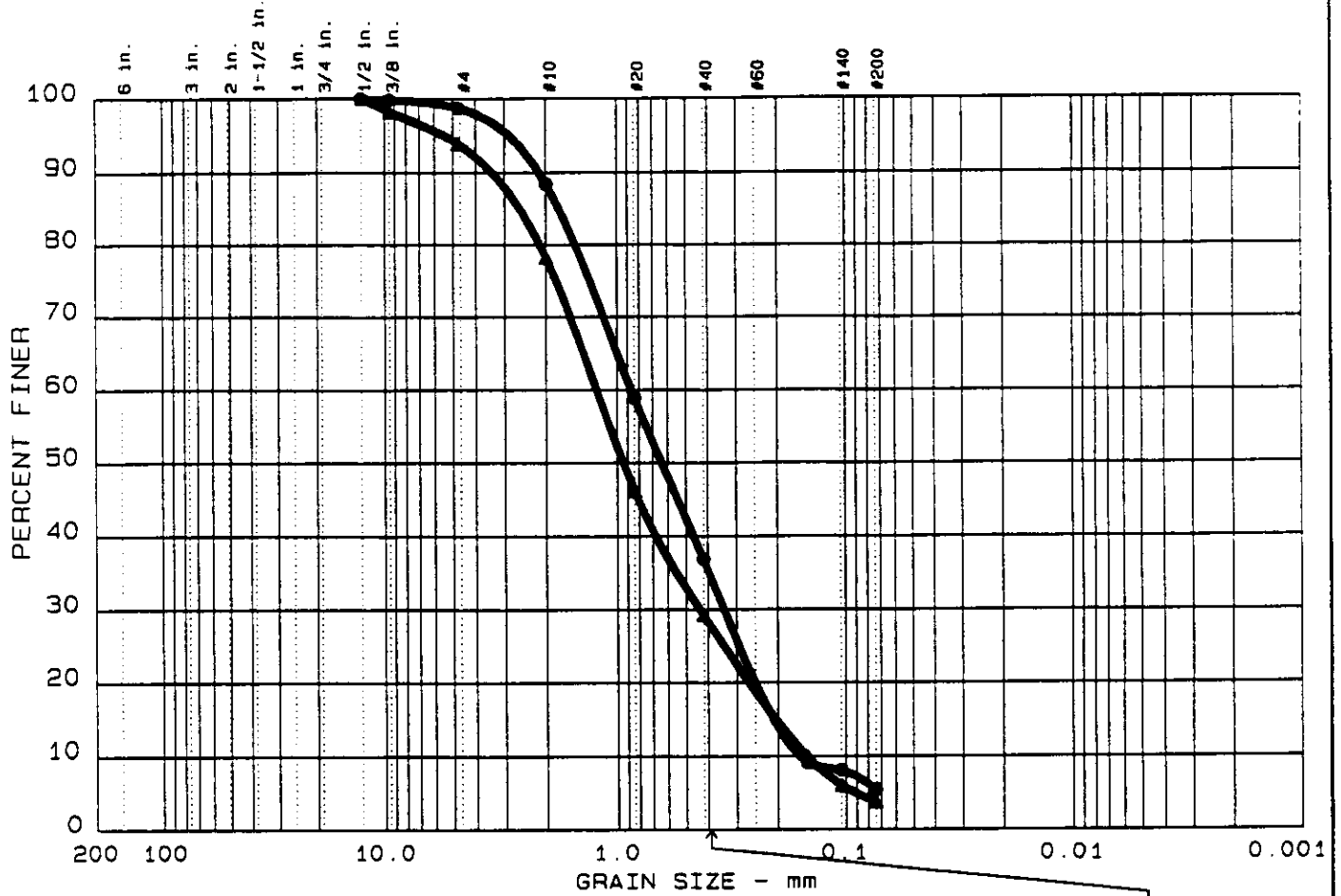
ave	Cumul. Wt. retained	Percent finer
0.5 inches	233.10	100.0
0.375 inches	235.40	98.2
# 4	241.00	93.9
# 10	261.60	78.2
# 20	303.40	46.1
# 40	325.40	29.3
# 100	350.70	9.9
# 140	355.70	6.1
# 200	358.60	3.8

Fractional Components

% + 75mm. = 0.0    % GRAVEL = 6.1    % SAND = 90.1  
 % FINES = 3.8

D85= 2.57    D60= 1.223    D50= 0.939  
 D30= 0.4340    D15= 0.20535    D10= 0.14876  
 Cc = 1.0351    Cu = 8.2224

# GRAIN SIZE DISTRIBUTION TEST REPORT



Test	%+75 <sub>mm</sub>	% GRAVEL	% SAND	% SILT	% CLAY
● 9	0.0	1.2	93.3	5.5	
▲ 10	0.0	6.1	90.1	3.8	

	LL	PI	D <sub>85</sub>	D <sub>60</sub>	D <sub>50</sub>	D <sub>30</sub>	D <sub>15</sub>	D <sub>10</sub>	C <sub>c</sub>	C <sub>u</sub>
●			1.76	0.87	0.64	0.341	0.2099	0.1611	0.83	5.4
▲			2.57	1.22	0.94	0.434	0.2054	0.1488	1.04	8.2

MATERIAL DESCRIPTION	USCS	AASHTO
● POORLY GRADED SAND WITH SILT	SP-SM	
▲ WELL GRADED SAND	SW	

Project No.: 1801.0440  
 Project: OGS ASSESSMENT  
 ● Location: 9500311203  
 ▲ Location: 9500311204  
 Date: 4-29-95

Remarks:

Figure No. 5

GRAIN SIZE DISTRIBUTION TEST DATA

Test No.: 11

Date: 4-29-95  
 Project No.: 1801.0441  
 Project: STREET SEDIMENT SAMPLING

Sample Data

Location of Sample: NLING032296AQ  
 Sample Description: WELL GRADED SAND WITH SILT  
 USCS Class: SW-SM                      Liquid limit:  
 AASHTO Class:                              Plasticity index:

Notes

Remarks:

Fig. No.: 26

Mechanical Analysis Data

	Initial	
Dry sample and tare=	444.30	
Tare =	176.30	
Dry sample weight =	268.00	
Tare for cumulative weight retained=	228	
Sieve	Cumul. Wt. retained	Percent finer
0.375 inches	228.00	100.0
# 4	230.20	99.2
# 10	252.40	90.9
# 20	336.10	59.7
# 40	396.30	37.2
# 100	455.90	15.0
# 140	466.10	11.2
# 200	471.20	9.3

Fractional Components

% + 75mm. = 0.0      % GRAVEL = 0.8      % SAND = 89.9  
 % FINES = 9.3

D85= 1.62    D60= 0.847    D50= 0.640  
 D30= 0.3195    D15= 0.14774    D10= 0.08700  
 Cc = 1.3852    Cu = 9.7387

GRAIN SIZE DISTRIBUTION TEST DATA

Test No.: 12

Date: 4-29-95  
 Project No.: 1801.0441  
 Project: STREET SEDIMENT SAMPLING

Sample Data

Location of Sample: NLNING032296AQ  
 Sample Description: WELL GRADED SAND  
 USCS Class: SW Liquid limit:  
 AASHTO Class: Plasticity index:

Notes

Remarks:

Fig. No.:

Mechanical Analysis Data

	Initial	
Dry sample and tare=	263.50	
Tare =	230.50	
Dry sample weight =	33.00	
Tare for cumulative weight retained=	230.8	
	Cumul. Wt.	Percent
	retained	finer
# 4	230.80	100.0
# 10	236.70	82.1
# 20	250.50	40.3
# 40	255.50	25.2
# 100	261.50	7.0
# 140	262.10	5.2
# 200	262.20	4.8

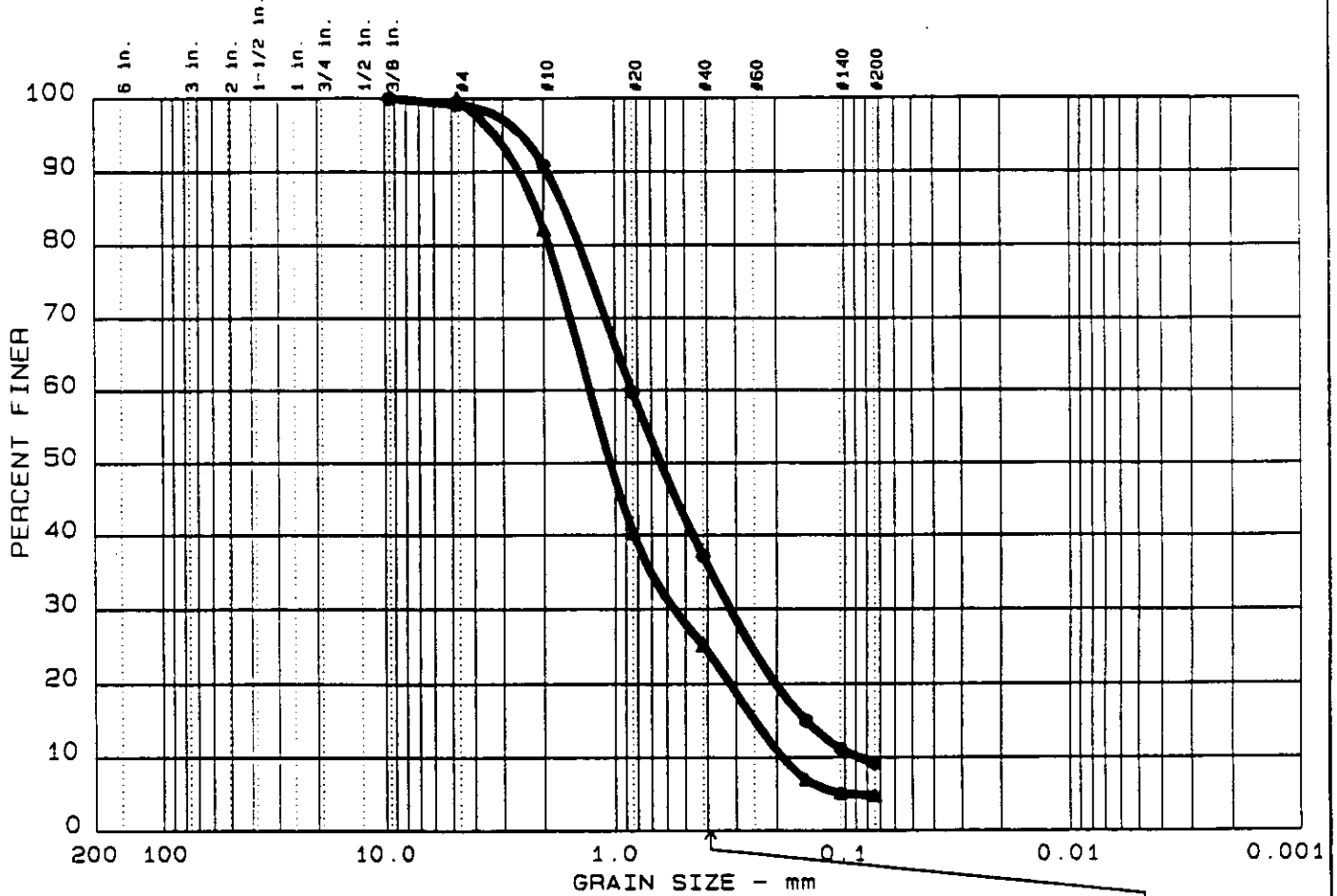
Fractional Components

% + 75mm. = 0.0    % GRAVEL = 0.0    % SAND = 95.2  
 % FINES = 4.8

D85= 2.16    D60= 1.272    D50= 1.046  
 D30= 0.5553    D15= 0.24803    D10= 0.18815  
 Cc = 1.2882    Cu = 6.7608



# GRAIN SIZE DISTRIBUTION TEST REPORT



Test	%+75mm	% GRAVEL	% SAND	% SILT	% CLAY
● 11	0.0	0.8	89.9	9.3	
▲ 12	0.0	0.0	95.2	4.8	

	LL	PI	D <sub>85</sub>	D <sub>60</sub>	D <sub>50</sub>	D <sub>30</sub>	D <sub>15</sub>	D <sub>10</sub>	C <sub>c</sub>	C <sub>u</sub>
●			1.62	0.85	0.64	0.320	0.1477	0.0870	1.39	9.7
▲			2.16	1.27	1.05	0.555	0.2480	0.1881	1.29	6.8

MATERIAL DESCRIPTION	USCS	AASHTO
● WELL GRADED SAND WITH SILT	SW-SM	
▲ WELL GRADED SAND	SW	

Project No.: 1801.0441  
 Project: STREET SEDIMENT SAMPLING  
 ● Location: NLING032296AQ  
 ▲ Location: NLNING032296AQ  
 Date: 4-29-95

Remarks:

Figure No. 26

GRAIN SIZE DISTRIBUTION TEST DATA

Test No.: 17

Date: 4-29-95  
 Project No.: 1801.0441  
 Project: STREET SEDIMENT SAMPLING

Sample Data

Location of Sample: N.IG032696  
 Sample Description: WELL GRADED SAND WITH SILT  
 USCS Class: SW-SM Liquid limit:  
 AASHTO Class: Plasticity index:

Notes

Remarks:

Fig. No.: 19

Mechanical Analysis Data

	Initial	
Dry sample and tare=	700.00	
Tare =	164.10	
Dry sample weight =	535.90	
Tare for cumulative weight retained=	227	
	Cumul. Wt.	Percent
Size	retained	finer
0.75 inches	227.00	100.0
0.375 inches	241.60	97.3
# 4	333.10	80.2
# 10	545.80	40.5
# 20	616.70	27.3
# 40	653.50	20.4
# 100	711.50	9.6
# 140	725.50	7.0
# 200	731.50	5.9

Fractional Components

% + 75mm. = 0.0    % GRAVEL = 19.8    % SAND = 74.3  
 % FINES = 5.9

D85= 5.41    D60= 3.108    D50= 2.526  
 D30= 1.1682    D15= 0.25556    D10= 0.15578  
 Cc = 2.8184    Cu = 19.9526

GRAIN SIZE DISTRIBUTION TEST DATA

Test No.: 18

Date: 4-29-95  
 Project No.: 1801.0441  
 Project: STREET SEDIMENT SAMPLING

Sample Data

Location of Sample: N.ING032696  
 Sample Description: POORLY GRADED SAND  
 JSCS Class: SP                      Liquid limit:  
 AASHTO Class:                      Plasticity index:

Notes

Remarks:

Fig. No.:

Mechanical Analysis Data

Initial  
 Dry sample and tare= 1594.80  
 Tare = 167.90  
 Dry sample weight = 1426.90  
 Tare for cumulative weight retained= 167.9

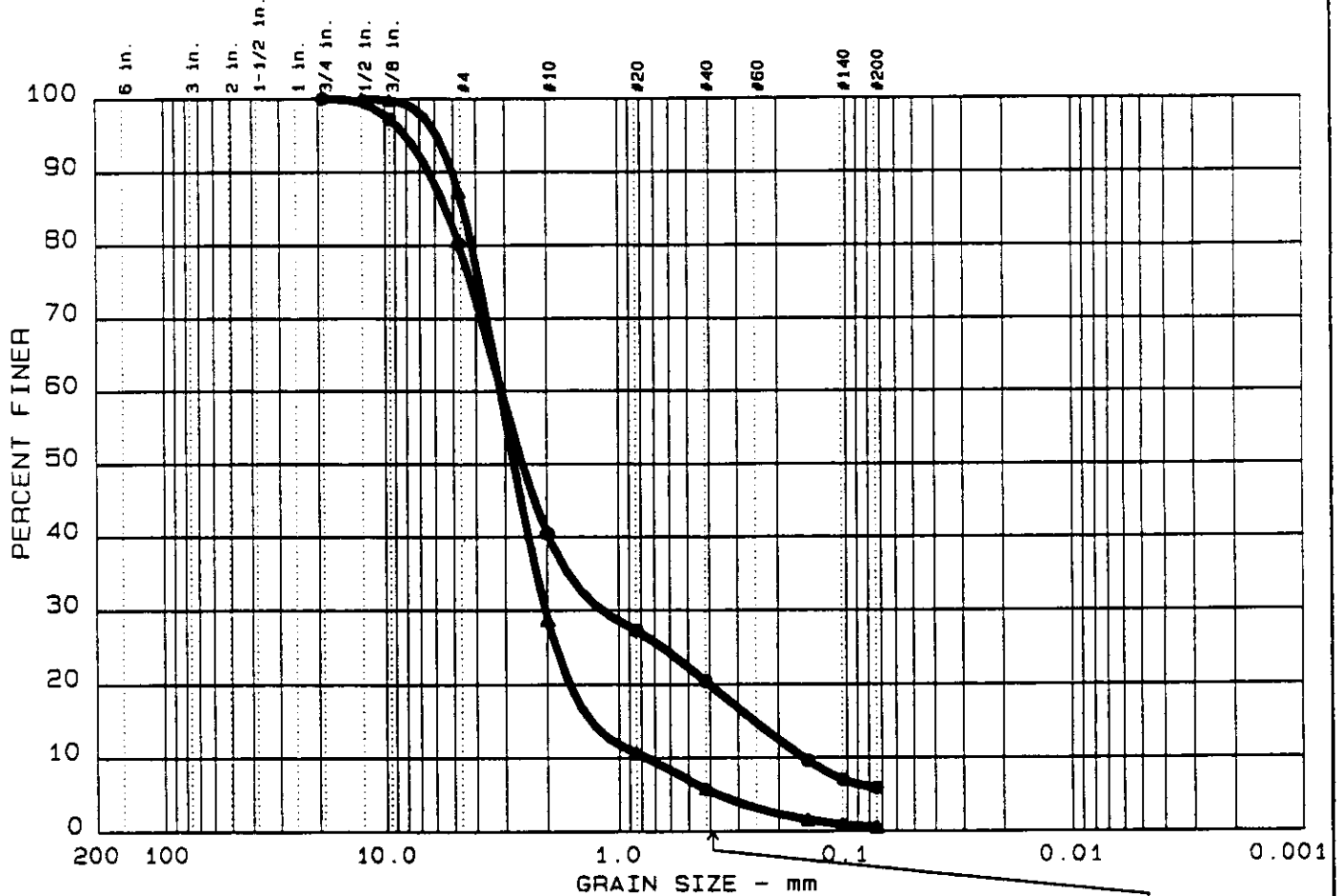
sieve	Cumul. Wt. retained	Percent finer
0.5 inches	167.90	100.0
0.375 inches	170.60	99.8
# 4	348.80	87.3
# 10	1183.60	28.8
# 20	1443.00	10.6
# 40	1512.90	5.7
# 100	1571.70	1.6
# 140	1581.10	1.0
# 200	1586.20	0.6

Fractional Components

% + 75mm. = 0.0      % GRAVEL = 12.7      % SAND = 86.7  
 % FINES = 0.6

D85= 4.54    D60= 3.141    D50= 2.754  
 D30= 2.0417    D15= 1.31826    D10= 0.74131  
 Cc = 1.7906    Cu = 4.2364

# GRAIN SIZE DISTRIBUTION TEST REPORT



Test	%+75mm	% GRAVEL	% SAND	% SILT	% CLAY
● 17	0.0	19.8	74.3	5.9	
▲ 18	0.0	12.7	86.7	0.6	

	LL	PI	D <sub>85</sub>	D <sub>60</sub>	D <sub>50</sub>	D <sub>30</sub>	D <sub>15</sub>	D <sub>10</sub>	C <sub>c</sub>	C <sub>u</sub>
●			5.41	3.11	2.53	1.168	0.2556	0.1558	2.82	20.0
▲			4.54	3.14	2.75	2.042	1.3183	0.7413	1.79	4.2

MATERIAL DESCRIPTION	USCS	AASHTO
● WELL GRADED SAND WITH SILT	SW-SM	
▲ POORLY GRADED SAND	SP	

Project No.: 1801.0441  
 Project: STREET SEDIMENT SAMPLING  
 ● Location: N.IG032696  
 ▲ Location: N.ING032696  
 Date: 4-29-95

Remarks:

GRAIN SIZE DISTRIBUTION TEST DATA

Test No.: 19

Date: 4-29-95  
 Project No.: 1801.0441  
 Project: STREET SEDIMENT SAMPLING

Sample Data

Location of Sample: N.NIG032696  
 Sample Description: POORLY GRADED SAND WITH SILT  
 USCS Class: SP-SM                      Liquid limit:  
 AASHTO Class:                              Plasticity index:

Notes

Remarks:

Fig. No.: 20

Mechanical Analysis Data

	Initial	
Dry sample and tare=	664.50	
Tare =	163.70	
Dry sample weight =	500.80	
Tare for cumulative weight retained=	164.8	
Sieve	Cumul. Wt. retained	Percent finer
0.75 inches	164.80	100.0
0.375 inches	201.10	92.8
# 4	262.90	80.4
# 10	346.70	63.7
# 20	410.00	51.0
# 40	459.80	41.1
# 100	581.30	16.8
# 140	615.20	10.1
# 200	617.70	9.6

Fractional Components

% + 75mm. = 0.0      % GRAVEL = 19.6      % SAND = 70.8  
 % FINES = 9.6

D85= 5.96    D60= 1.585    D50= 0.767  
 D30= 0.2512    D15= 0.13804    D10= 0.10351  
 Cc = 0.3846    Cu = 15.3109

GRAIN SIZE DISTRIBUTION TEST DATA

Test No.: 20

Date: 4-29-95  
 Project No.: 1801.0441  
 Project: STREET SEDIMENT SAMPLING

Sample Data

Location of Sample: N.NING032696  
 Sample Description: POORLY GRADED SAND  
 USCS Class: SP                      Liquid limit:  
 AASHTO Class:                      Plasticity index:

Notes

Remarks:

Fig. No.:

Mechanical Analysis Data

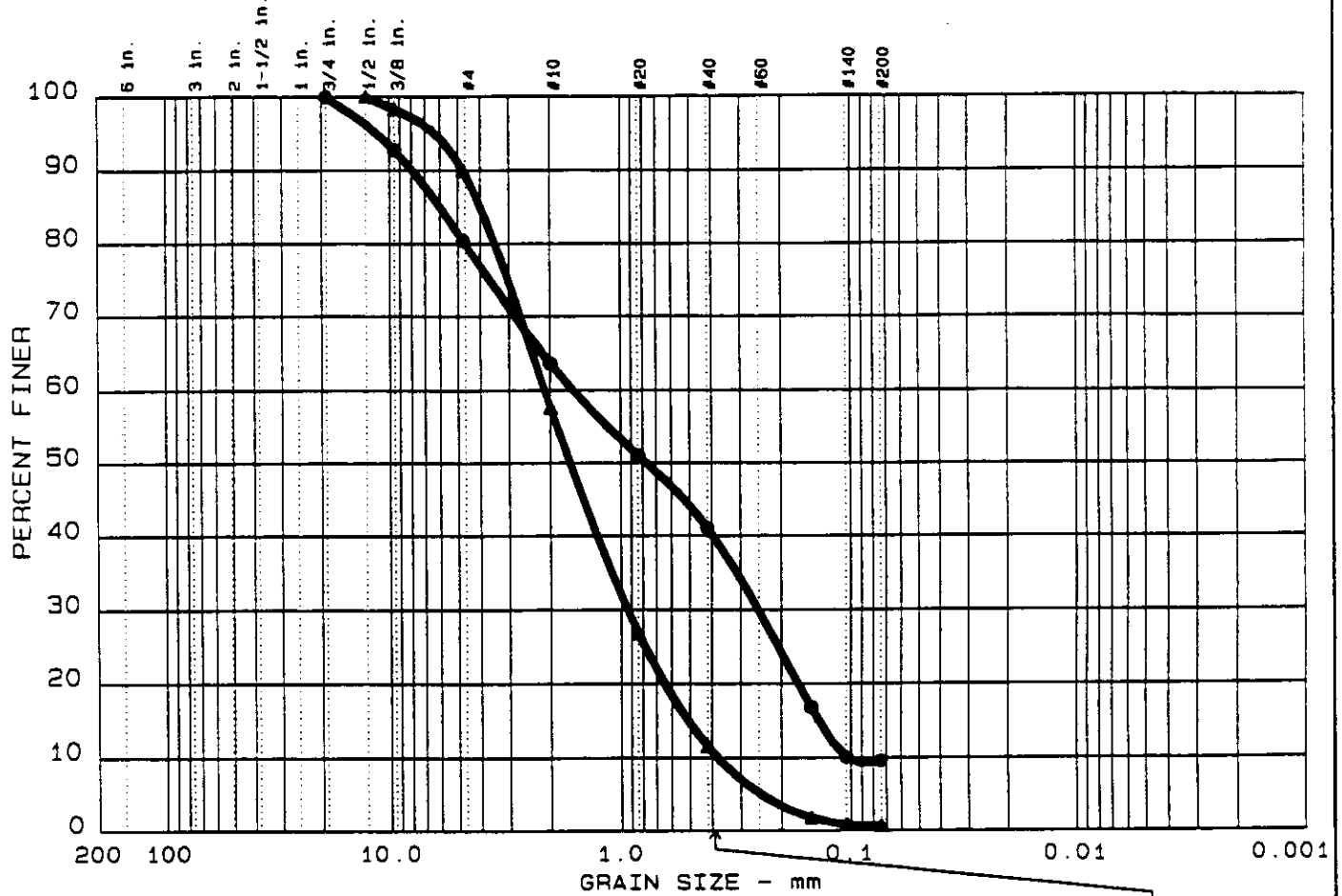
	Initial	
Dry sample and tare=	980.70	
Tare =	222.10	
Dry sample weight =	758.60	
Tare for cumulative weight retained=	222.1	
	Cumul. Wt.	Percent
sieve	retained	finer
0.5 inches	222.10	100.0
0.375 inches	235.10	98.3
# 4	298.00	90.0
# 10	543.60	57.6
# 20	777.10	26.8
# 40	893.10	11.5
# 100	966.80	1.8
# 140	974.20	0.9
# 200	975.60	0.7

Fractional Components

% + 75mm. = 0.0      % GRAVEL = 10.0      % SAND = 89.3  
 % FINES = 0.7

D85= 3.98    D60= 2.113    D50= 1.656  
 D30= 0.9311    D15= 0.50582    D10= 0.37931  
 Cc = 1.0814    Cu = 5.5719

# GRAIN SIZE DISTRIBUTION TEST REPORT



Test	%+75 mm	% GRAVEL	% SAND	% SILT	% CLAY
● 19	0.0	19.6	70.8	9.6	
▲ 20	0.0	10.0	89.3	0.7	

	LL	PI	D <sub>85</sub>	D <sub>60</sub>	D <sub>50</sub>	D <sub>30</sub>	D <sub>15</sub>	D <sub>10</sub>	C <sub>c</sub>	C <sub>u</sub>
●			5.96	1.58	0.77	0.251	0.1380	0.1035	0.38	15.3
▲			3.98	2.11	1.66	0.931	0.5058	0.3793	1.08	5.6

MATERIAL DESCRIPTION	USCS	AASHTO
● POORLY GRADED SAND WITH SILT	SP-SM SP	
▲ POORLY GRADED SAND		

Project No.: 1801.0441  
 Project: STREET SEDIMENT SAMPLING  
 ● Location: N.NIG032696  
 ▲ Location: N.NING032696  
 Date: 4-29-95.

Remarks:

Figure No. 20

GRAIN SIZE DISTRIBUTION TEST DATA

Test No.: 1

Date: 4-29-95  
 Project No.: 1801.0441  
 Project: STREET SEDIMENT SAMPLING

Sample Data

Location of Sample: NSIG032096  
 Sample Description: SILTY SAND  
 USCS Class: SM  
 AASHTO Class: SM  
 Liquid limit:  
 Plasticity index:

Notes

Remarks:

Fig. No.: 21

Mechanical Analysis Data

Initial  
 Dry sample and tare= 1289.00  
 Tare = 227.70  
 Dry sample weight = 1061.30  
 Tare for cumulative weight retained= 238.1

sieve	Cumul. Wt. retained	Percent finer
0.75 inches	238.10	100.0
0.375 inches	247.90	99.1
# 4	303.10	93.9
# 10	474.70	77.7
# 20	646.00	61.6
# 40	793.20	47.7
# 100	1065.20	22.1
# 140	1135.30	15.5
# 200	1166.00	12.6

Fractional Components

% + 75mm. = 0.0    % GRAVEL = 6.1    % SAND = 81.3  
 % FINES = 12.6

D85= 2.85    D60= 0.767    D50= 0.462  
 D30= 0.2065    D15= 0.10116



GRAIN SIZE DISTRIBUTION TEST DATA

Test No.: 2

Date: 4-29-95  
 Project No.: 1801.0441  
 Project: STREET SEDIMENT SAMPLING

Sample Data

Location of Sample: NSING032096  
 Sample Description: WELL GRADED SAND WITH SILT  
 USCS Class: SW-SM Liquid limit:  
 AASHTO Class: Plasticity index:

Notes

Remarks:

Fig. No.:

Mechanical Analysis Data

Initial  
 Dry sample and tare= 1033.80  
 Tare = 227.70  
 Dry sample weight = 806.10  
 Tare for cumulative weight retained= 228

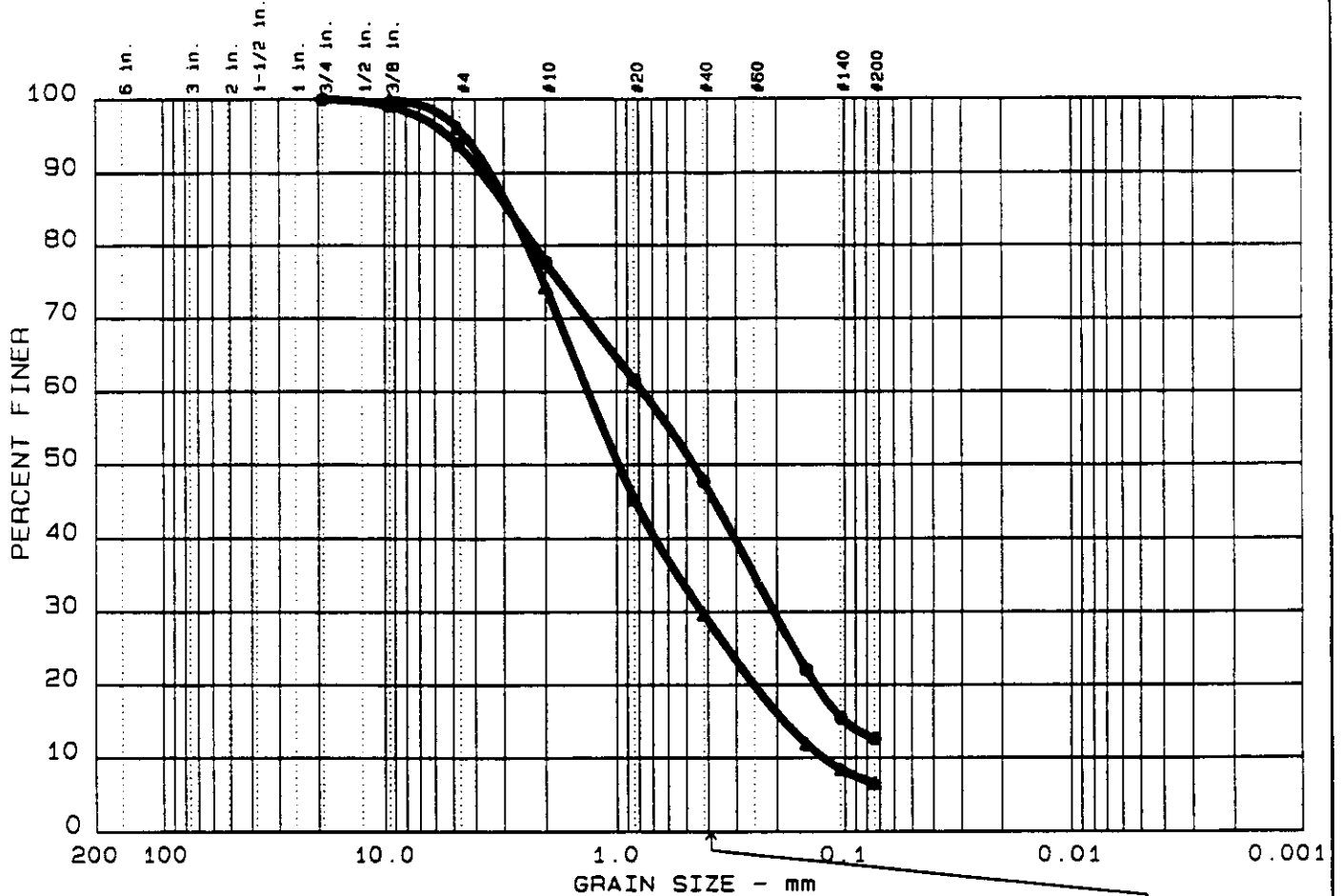
sieve	Cumul. Wt. retained	Percent finer
0.375 inches	228.00	100.0
# 4	259.20	96.1
# 10	435.00	74.3
# 20	668.60	45.3
# 40	795.10	29.6
# 100	938.20	11.9
# 140	966.70	8.4
# 200	981.70	6.5

Fractional Components

% + 75mm. = 0.0    % GRAVEL = 3.9    % SAND = 89.6  
 % FINES = 6.5

D85= 2.82    D60= 1.318    D50= 0.977  
 D30= 0.4266    D15= 0.18621    D10= 0.12589  
 Cc = 1.0965    Cu = 10.4713

# GRAIN SIZE DISTRIBUTION TEST REPORT



Test	%+75 <sub>mm</sub>	% GRAVEL	% SAND	% SILT	% CLAY
● 1	0.0	6.1	81.3	12.6	
▲ 2	0.0	3.9	89.6	6.5	

	LL	PI	D <sub>85</sub>	D <sub>60</sub>	D <sub>50</sub>	D <sub>30</sub>	D <sub>15</sub>	D <sub>10</sub>	C <sub>c</sub>	C <sub>u</sub>
●			2.85	0.77	0.46	0.207	0.1012			
▲			2.82	1.32	0.98	0.427	0.1862	0.1259	1.10	10.5

MATERIAL DESCRIPTION	USCS	AASHTO
● SILTY SAND	SM	
▲ WELL GRADED SAND WITH SILT	SW-SM	

Project No.: 1801.0441  
 Project: STREET SEDIMENT SAMPLING  
 ● Location: NSIG032096  
 ▲ Location: NSING032096  
 Date: 4-29-95

Remarks:

GRAIN SIZE DISTRIBUTION TEST REPORT  
**RODNEY P. KINNEY ASSOCIATES**

Figure No. 21

GRAIN SIZE DISTRIBUTION TEST DATA

Test No.: 3

Date: 4-29-95  
 Project No.: 1801.0441  
 Project: STREET SEDIMENT SAMPLING

Sample Data

Location of Sample: OSIG032196  
 Sample Description: POORLY GRADED SAND WITH SILT  
 USCS Class: SP-SM Liquid limit:  
 AASHTO Class: Plasticity index:

Notes

Remarks:

Fig. No.: 22

Mechanical Analysis Data

Initial  
 Dry sample and tare= 1562.20  
 Tare = 223.30  
 Dry sample weight = 1338.90  
 Tare for cumulative weight retained= 224.8

Sieve	Cumul. Wt. retained	Percent finer
0.375 inches	224.80	100.0
# 4	265.00	97.0
# 10	525.60	77.5
# 20	785.40	58.1
# 40	1013.70	41.1
# 100	1349.30	16.0
# 140	1423.00	10.5
# 200	1444.40	8.9

Fractional Components

% + 75mm. = 0.0      % GRAVEL = 3.0      % SAND = 88.1  
 % FINES = 8.9

D85= 2.66    D60= 0.912    D50= 0.596  
 D30= 0.2723    D15= 0.14125    D10= 0.09886  
 Cc = 0.8222    Cu = 9.2257

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GRAIN SIZE DISTRIBUTION TEST DATA

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Test No.: 4

Date: 4-29-95  
 Project No.: 1801.0441  
 Project: STREET SEDIMENT SAMPLING

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Sample Data

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Location of Sample: OSING032196  
 Sample Description: POORLY GRADED SAND WITH SILT  
 JSCS Class: SP-SM                      Liquid limit:  
 AASHTO Class:                              Plasticity index:

-----

Notes

-----

Remarks:

Fig. No.:

-----

Mechanical Analysis Data

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	Initial	
Dry sample and tare=	958.70	
Tare	= 168.30	
Dry sample weight	= 790.40	
Tare for cumulative weight retained=	168.3	
	Cumul. Wt.	Percent
	retained	finer
0.375 inches	168.30	100.0
# 4	177.70	98.8
# 10	320.30	80.8
# 20	518.50	55.7
# 40	647.50	39.4
# 100	832.80	15.9
# 140	869.80	11.2
# 200	888.30	8.9

-----

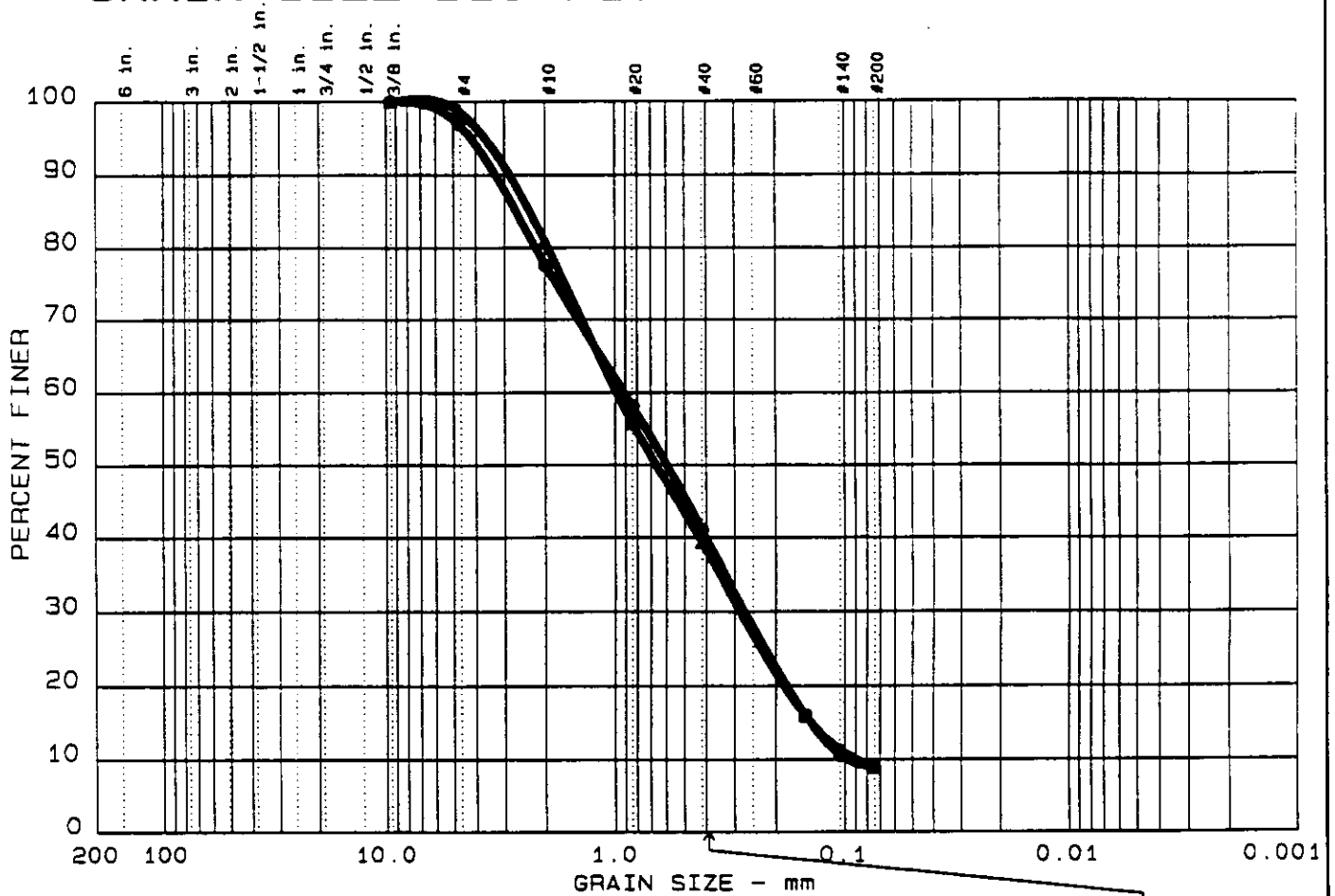
Fractional Components

-----

% + 75mm. = 0.0      % GRAVEL = 1.2      % SAND = 89.9  
 % FINES = 8.9

D85= 2.32    D60= 0.984    D50= 0.665  
 D30= 0.2838    D15= 0.14060    D10= 0.08872  
 Cc = 0.9226    Cu = 11.0917

# GRAIN SIZE DISTRIBUTION TEST REPORT



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GRAIN SIZE DISTRIBUTION TEST DATA

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Test No.: 5

Date: 4-29-95  
 Project No.: 1801.0441  
 Project: STREET SEDIMENT SAMPLING

=====

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Sample Data

-----

Location of Sample: OSNIG032196  
 Sample Description: WELL GRADED SAND WITH SILT  
 USCS Class: SW-SM                      Liquid limit:  
 AASHTO Class:                              Plasticity index:

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Notes

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Remarks:

Fig. No.: 23

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Mechanical Analysis Data

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	Initial	
Dry sample and tare=	1314.70	
Tare =	246.90	
Dry sample weight =	1067.80	
Tare for cumulative weight retained=	247.5	
Sieve	Cumul. Wt. retained	Percent finer
0.75 inches	247.50	100.0
0.375 inches	252.00	99.6
# 4	267.10	98.2
# 10	397.60	85.9
# 20	614.30	65.6
# 40	811.60	47.2
# 100	1113.20	18.9
# 140	1180.00	12.7
# 200	1210.00	9.9

-----

Fractional Components

-----

% + 75mm. = 0.0      % GRAVEL = 1.8      % SAND = 88.3  
 % FINES = 9.9

D85= 1.91    D60= 0.675    D50= 0.465  
 D30= 0.2301    D15= 0.12218    D10= 0.07534  
 Cc = 1.0423    Cu = 8.9536

=====

GRAIN SIZE DISTRIBUTION TEST DATA

-----

Test No.: 6

Date: 4-29-95  
 Project No.: 1801.0441  
 Project: STREET SEDIMENT SAMPLING

=====

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Sample Data

-----

Location of Sample: OSNING032196  
 Sample Description: POORLY GRADED SAND WITH SILT  
 JSCS Class: SP-SM Liquid limit:  
 AASHTO Class: Plasticity index:

-----

Notes

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Remarks:

Fig. No.:

-----

Mechanical Analysis Data

-----

Initial  
 Dry sample and tare= 969.20  
 Tare = 176.70  
 Dry sample weight = 792.50  
 Tare for cumulative weight retained= 169.5

sieve	Cumul. Wt. retained	Percent finer
0.375 inches	169.50	100.0
# 4	204.70	95.6
# 10	375.80	74.0
# 20	525.30	55.1
# 40	655.40	38.7
# 100	836.80	15.8
# 140	873.80	11.1
# 200	894.20	8.6

-----

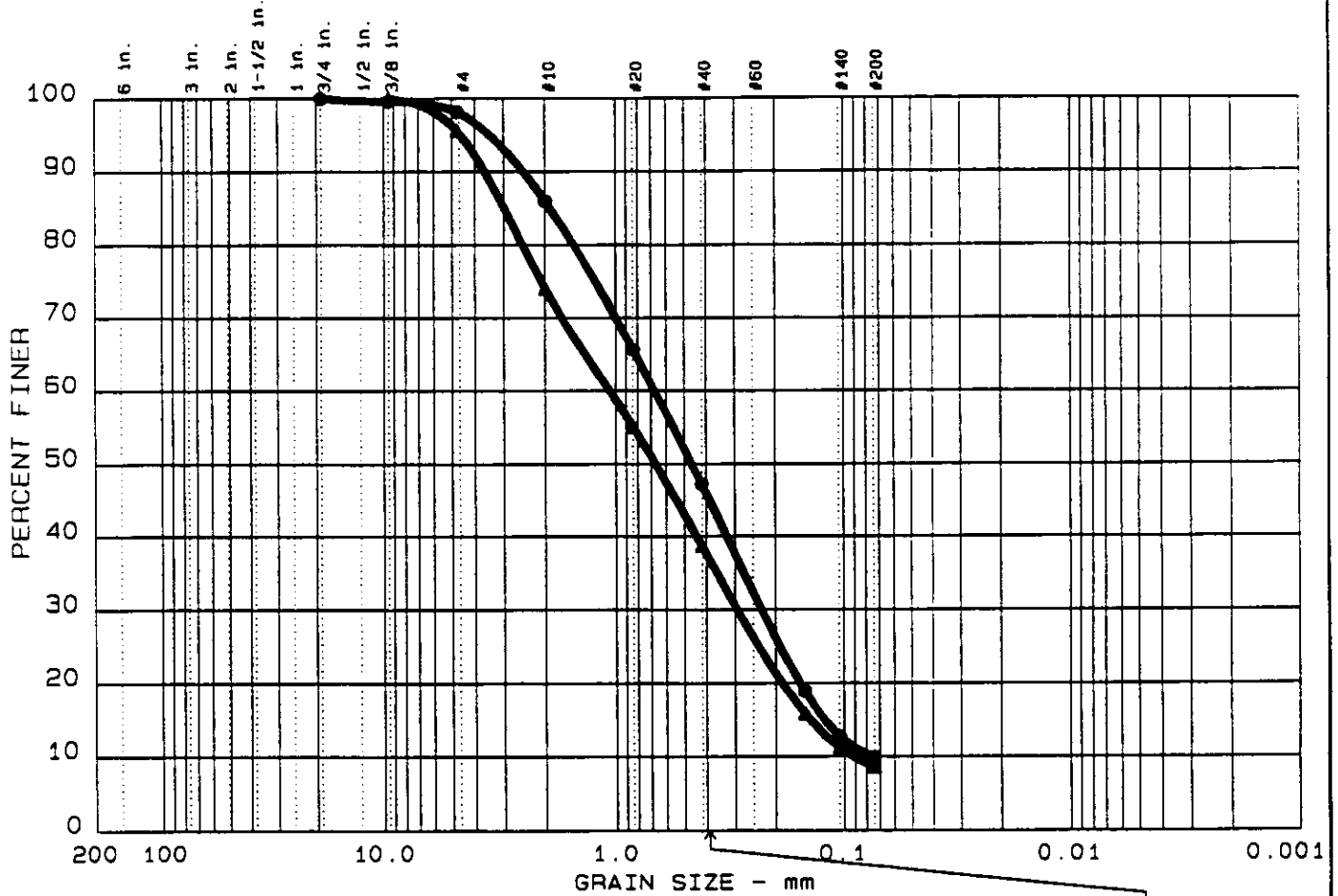
Fractional Components

-----

% + 75mm. = 0.0      % GRAVEL = 4.4      % SAND = 87.0  
 % FINES = 8.6

D85= 2.99    D60= 1.059    D50= 0.668  
 D30= 0.2944    D15= 0.14093    D10= 0.09204  
 Cc = 0.8892    Cu = 11.5080

# GRAIN SIZE DISTRIBUTION TEST REPORT



Test	%+75mm	% GRAVEL	% SAND	% SILT	% CLAY
● 5	0.0	1.8	88.3	9.9	
▲ 6	0.0	4.4	87.0	8.6	

	LL	PI	D <sub>95</sub>	D <sub>60</sub>	D <sub>50</sub>	D <sub>30</sub>	D <sub>15</sub>	D <sub>10</sub>	C <sub>c</sub>	C <sub>u</sub>
●			1.91	0.67	0.46	0.230	0.1222	0.0753	1.04	9.0
▲			2.99	1.06	0.67	0.294	0.1409	0.0920	0.89	11.5

MATERIAL DESCRIPTION	USCS	AASHTO
● WELL GRADED SAND WITH SILT	SW-SM	
▲ POORLY GRADED SAND WITH SILT	SP-SM	

Project No.: 1801.0441  
 Project: STREET SEDIMENT SAMPLING  
 ● Location: OSNIG032196  
 ▲ Location: OSNING032196  
 Date: 4-29-95.

Remarks:

Figure No. 23



GRAIN SIZE DISTRIBUTION TEST DATA

Test No.: 13

Date: 4-29-95  
 Project No.: 1801.0441  
 Project: STREET SEDIMENT SAMPLING

Sample Data

Location of Sample: OSING032196AQ  
 Sample Description: POORLY GRADED SAND WITH SILT  
 USCS Class: SP-SM                      Liquid limit:  
 AASHTO Class:                              Plasticity index:

Notes

Remarks:

Fig. No.: 27

Mechanical Analysis Data

	Initial	
Dry sample and tare=	687.80	
Tare =	231.10	
Dry sample weight =	456.70	
Tare for cumulative weight retained=	231.6	
Sieve	Cumul. Wt. retained	Percent finer
0.375 inches	231.60	100.0
# 4	248.40	96.3
# 10	359.50	72.0
# 20	452.80	51.6
# 40	514.80	38.0
# 100	609.90	17.2
# 140	630.60	12.6
# 200	640.30	10.5

Fractional Components

% + 75mm. = 0.0      % GRAVEL = 3.7      % SAND = 85.8  
 % FINES = 10.5

D85= 3.02    D60= 1.256    D50= 0.774  
 D30= 0.2877    D15= 0.12853

GRAIN SIZE DISTRIBUTION TEST DATA

Test No.: 14

Date: 4-29-95  
Project No.: 1801.0441  
Project: STREET SEDIMENT SAMPLING

Sample Data

Location of Sample: OSNING032196AQ  
Sample Description: WELL GRADED SAND WITH SILT  
USCS Class: SW-SM Liquid limit:  
AASHTO Class: Plasticity index:

Notes

Remarks:

Fig. No.:

Mechanical Analysis Data

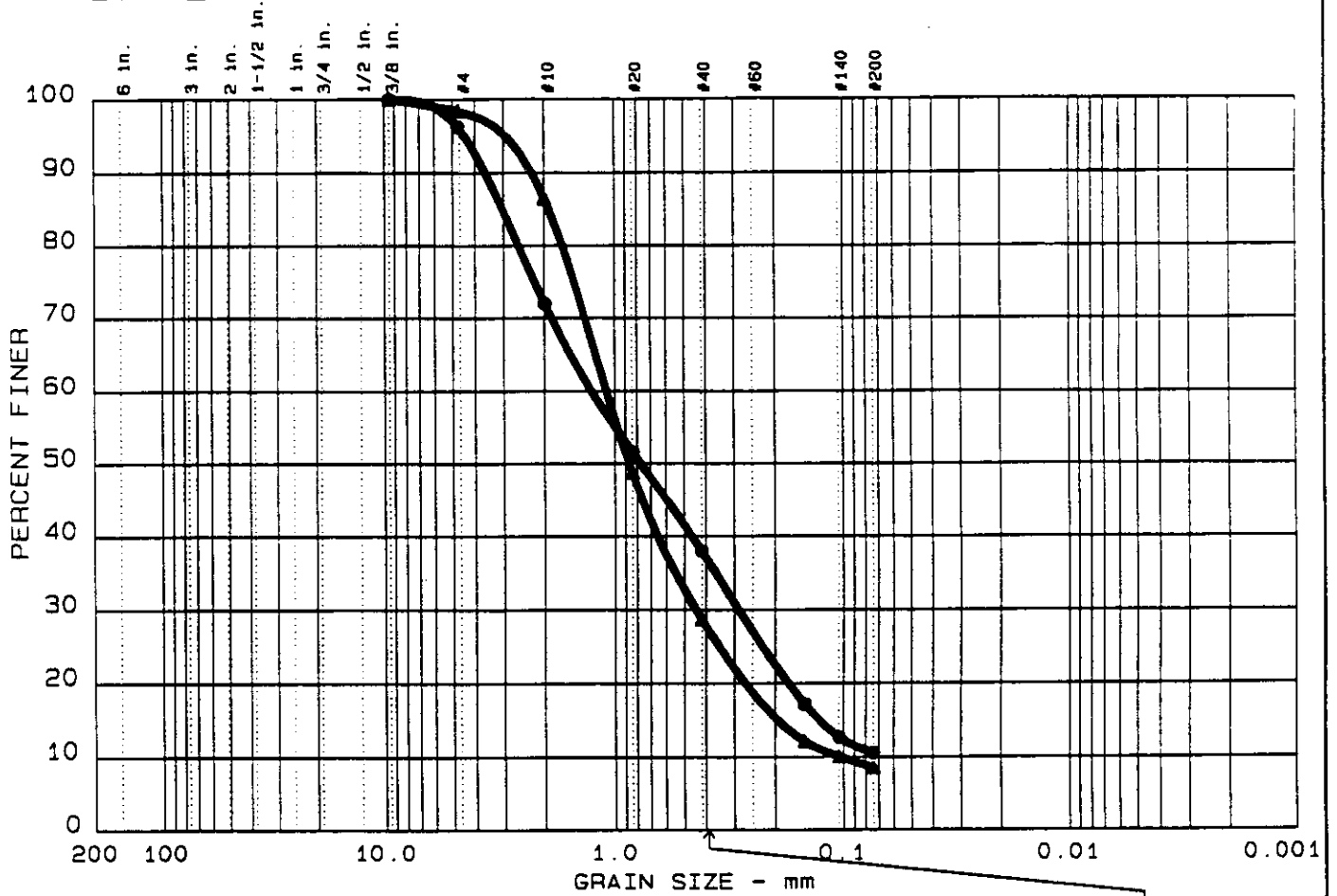
	Initial	
Dry sample and tare=	222.90	
Tare =	165.10	
Dry sample weight =	57.80	
Tare for cumulative weight retained=	228	
sieve	Cumul. Wt. retained	Percent finer
0.375 inches	228.00	100.0
# 4	228.90	98.4
# 10	235.80	86.5
# 20	257.70	48.6
# 40	269.20	28.7
# 100	278.80	12.1
# 140	280.00	10.0
# 200	280.90	8.5

Fractional Components

% + 75mm. = 0.0    % GRAVEL = 1.6    % SAND = 90.0  
% FINES = 8.4

D85= 1.91    D60= 1.084    D50= 0.869  
D30= 0.4446    D15= 0.19409    D10= 0.10304  
Cc = 1.7701    Cu = 10.5196

# GRAIN SIZE DISTRIBUTION TEST REPORT



Test	%+75mm	% GRAVEL	% SAND	% SILT	% CLAY
● 13	0.0	3.7	85.8	10.5	
▲ 14	0.0	1.6	90.0	8.4	

	LL	PI	D <sub>85</sub>	D <sub>60</sub>	D <sub>50</sub>	D <sub>30</sub>	D <sub>15</sub>	D <sub>10</sub>	C <sub>c</sub>	C <sub>u</sub>
●			3.02	1.26	0.77	0.288	0.1285			
▲			1.91	1.08	0.87	0.445	0.1941	0.1030	1.77	10.5

MATERIAL DESCRIPTION	USCS	AASHTO
● POORLY GRADED SAND WITH SILT	SP-SM	
▲ WELL GRADED SAND WITH SILT	SW-SM	

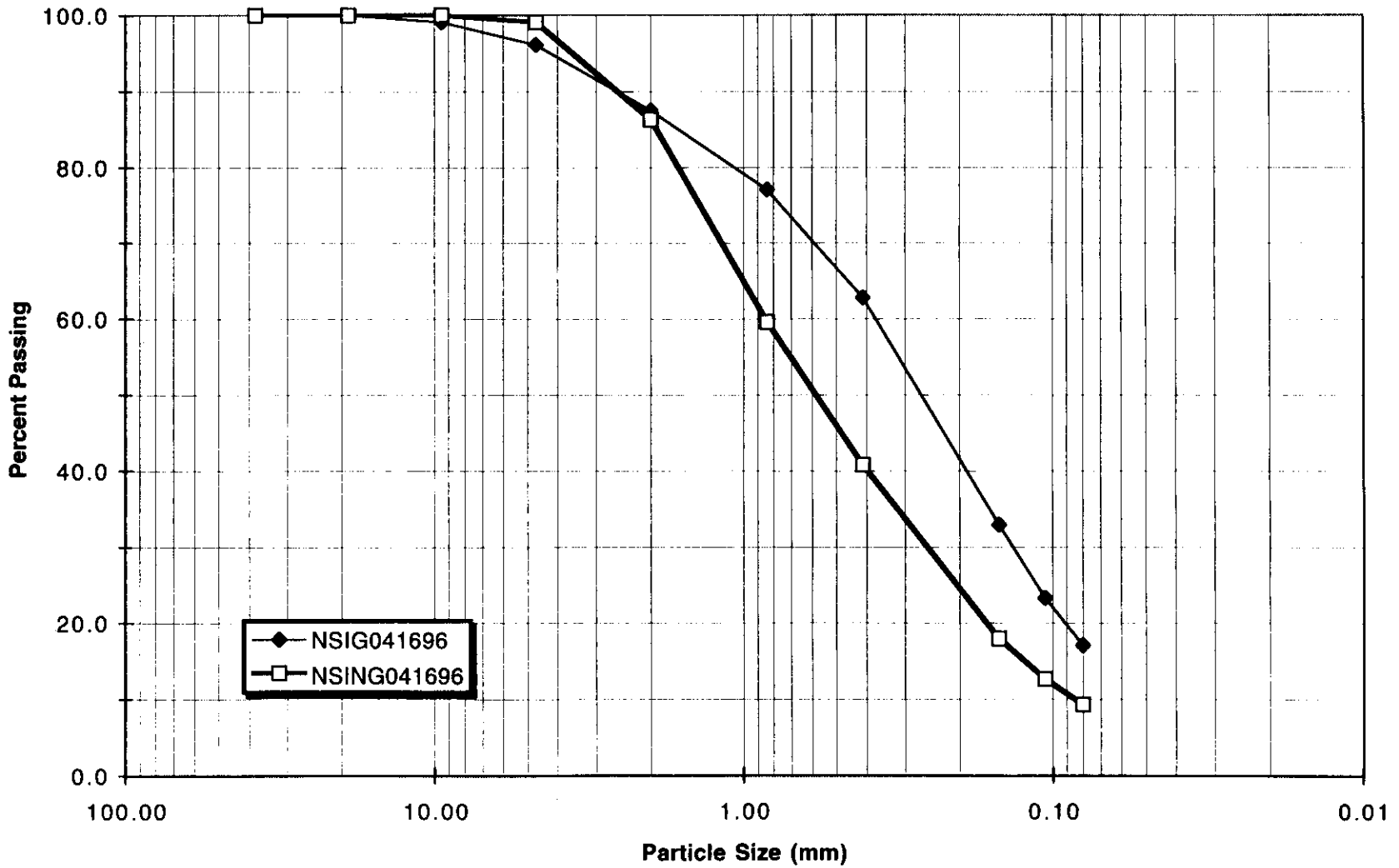
Project No.: 1801.0441  
 Project: STREET SEDIMENT SAMPLING  
 ● Location: OSING032196AQ  
 ▲ Location: OSNING032196AQ  
 Date: 4-29-95

Remarks:

Figure No. 27

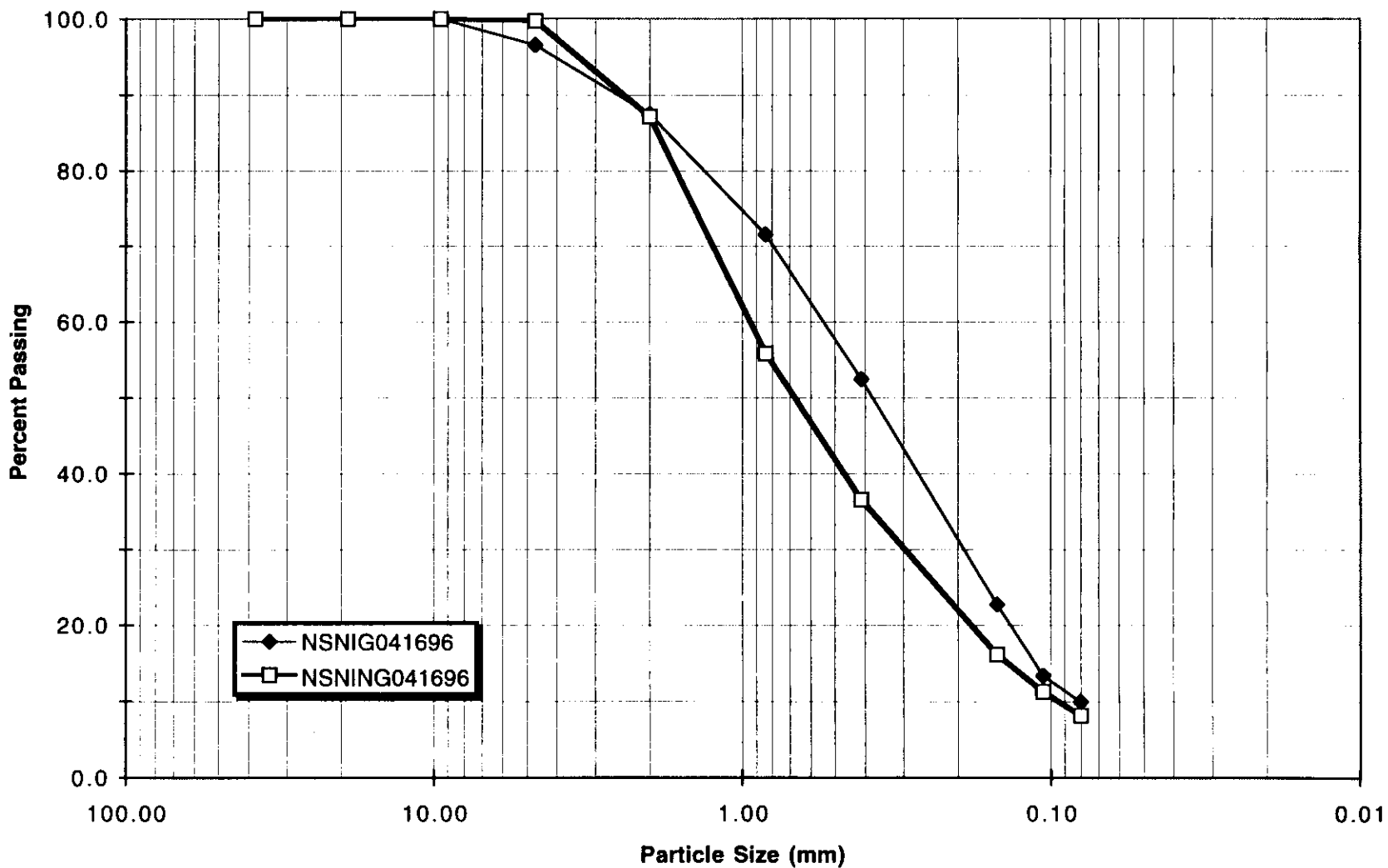
# GRAIN SIZE DISTRIBUTION TEST REPORT

## Street Sediment Loads Project



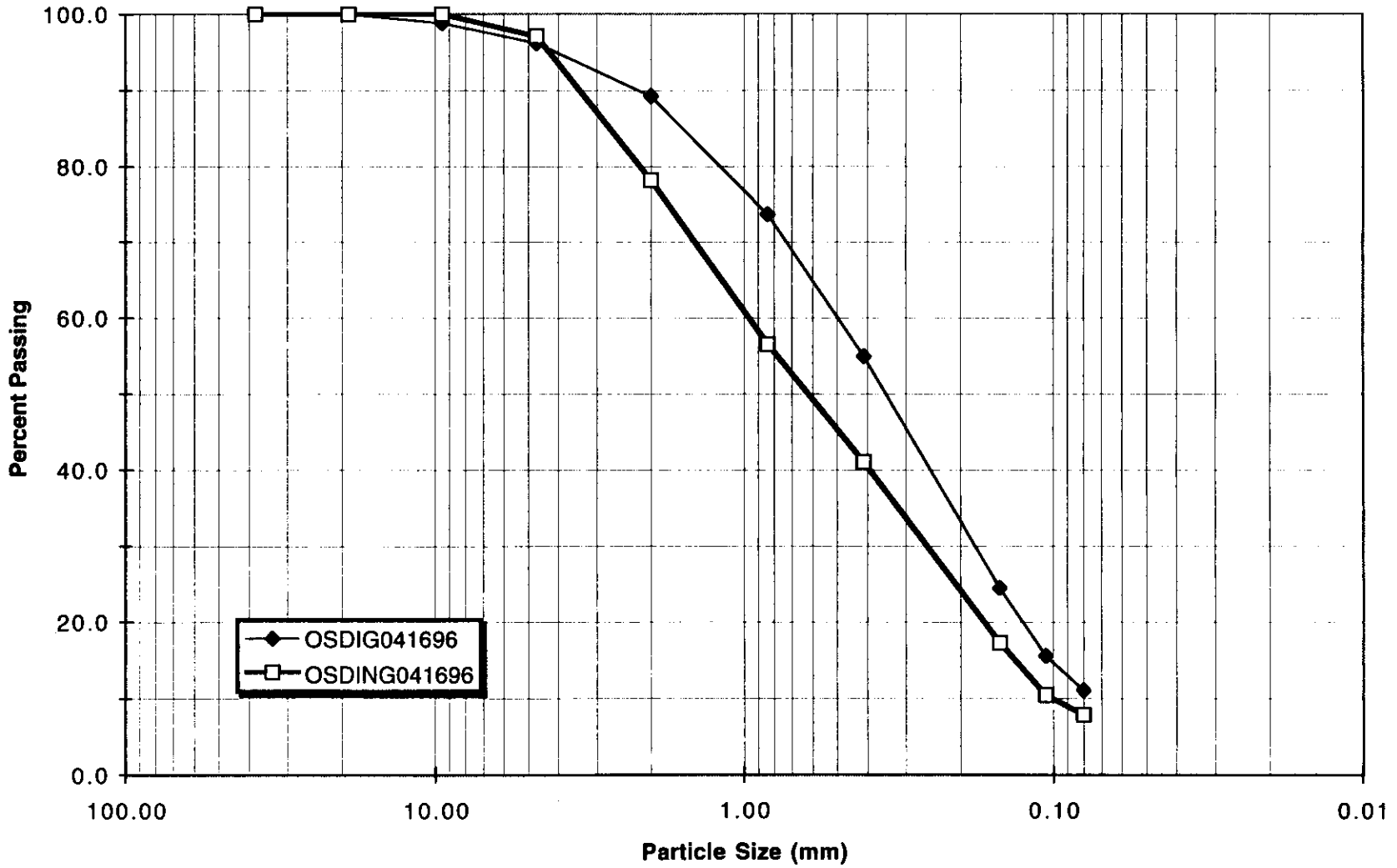
# GRAIN SIZE DISTRIBUTION TEST REPORT

## Street Sediment Loads Project



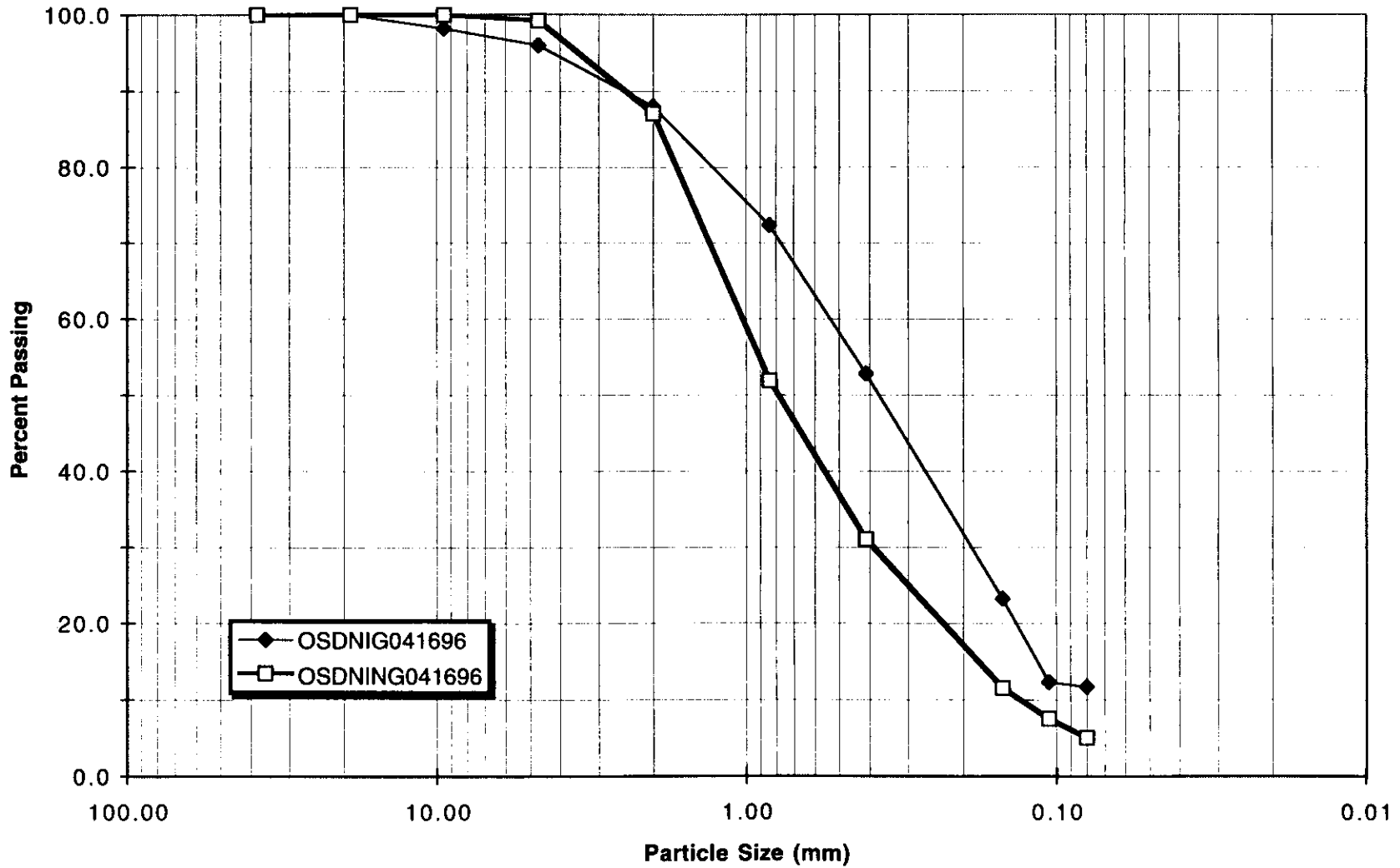
# GRAIN SIZE DISTRIBUTION TEST REPORT

## Street Sediment Loads Project



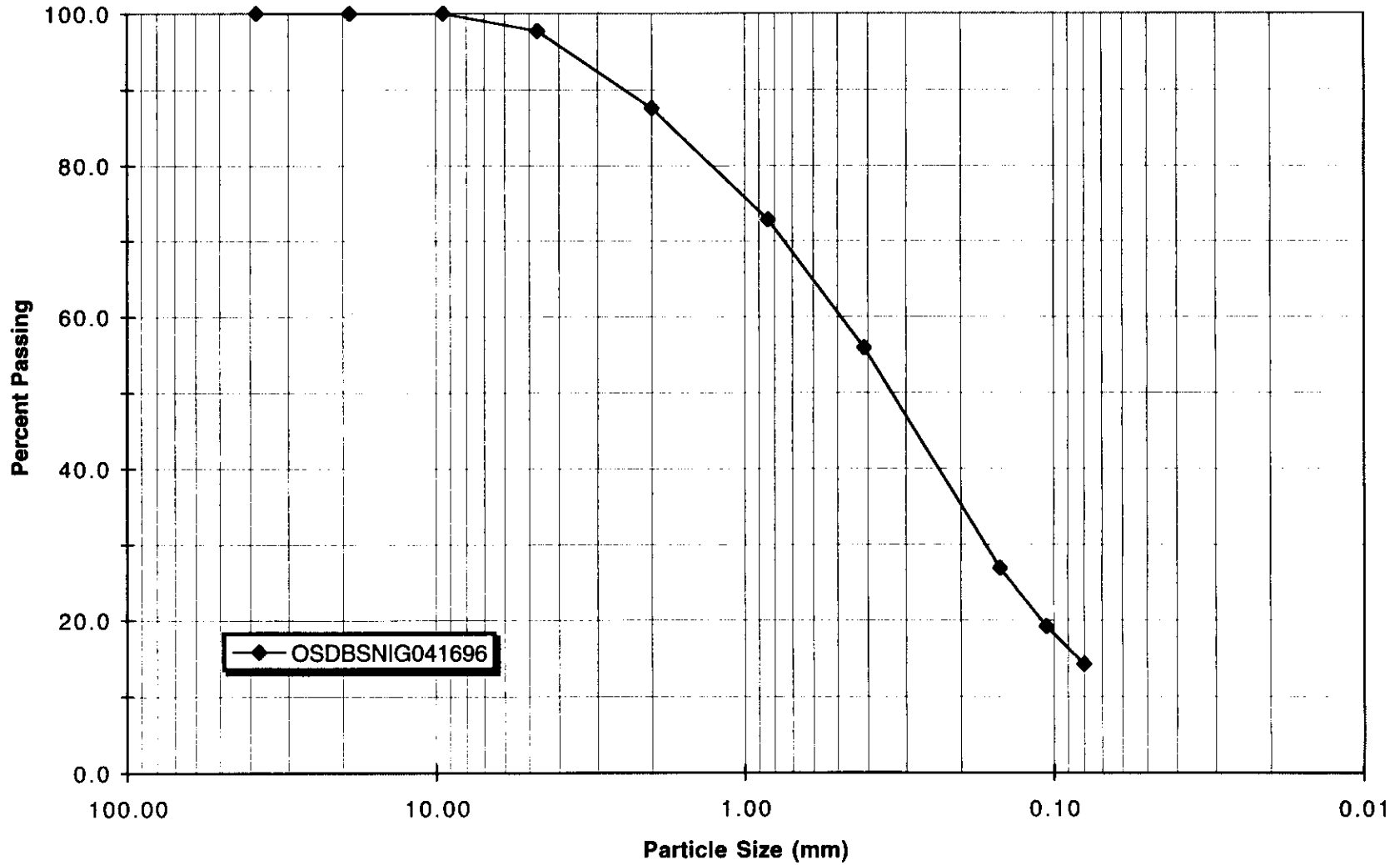
# GRAIN SIZE DISTRIBUTION TEST REPORT

## Street Sediment Loads Project



# GRAIN SIZE DISTRIBUTION TEST REPORT

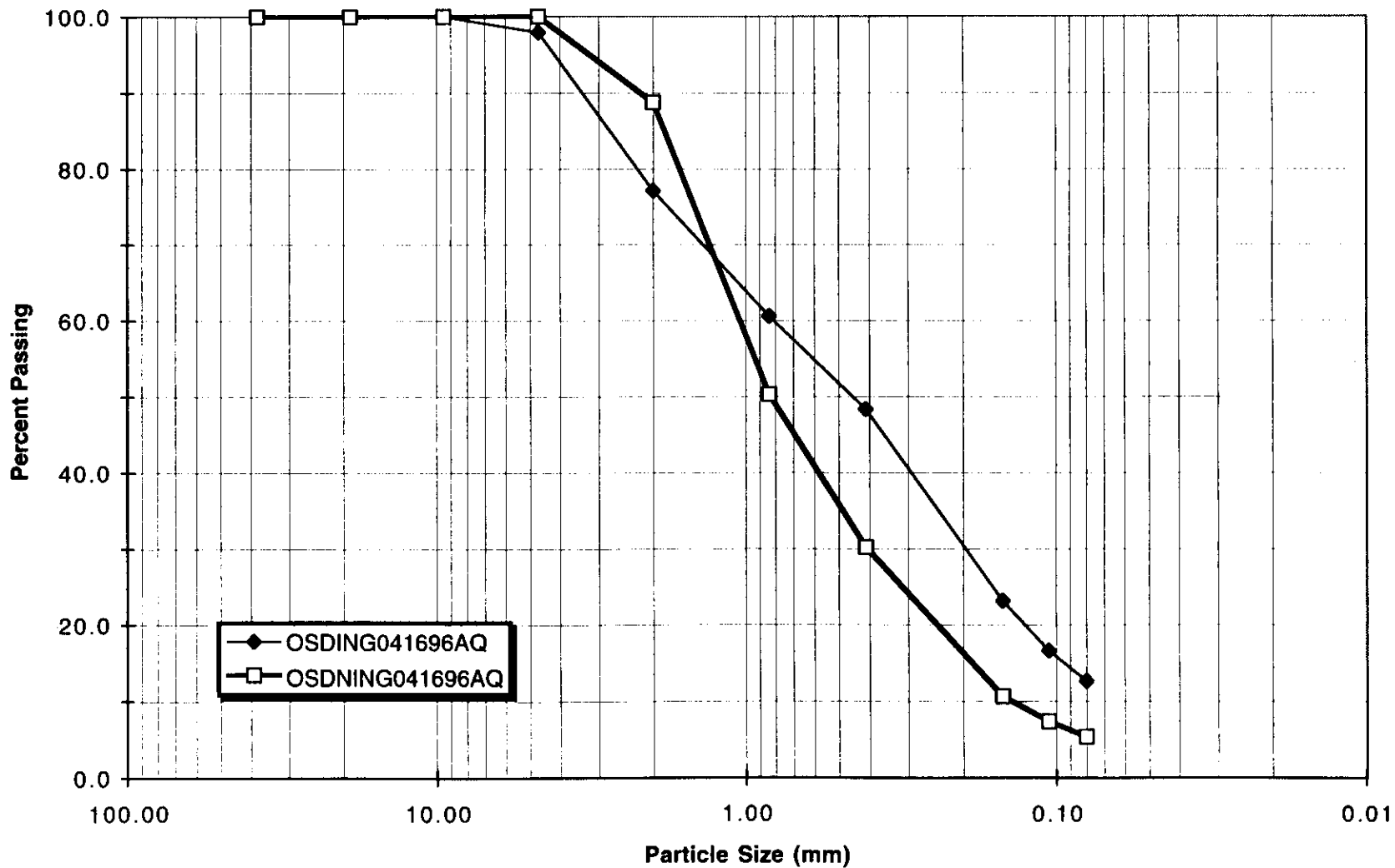
## Street Sediment Loads Project





# GRAIN SIZE DISTRIBUTION TEST REPORT

## Street Sediment Loads Project



GRAIN SIZE DISTRIBUTION TEST DATA

Test No.: 13

Date: 4-29-95  
 Project No.: 1801.0441  
 Project: STREET SEDIMENT SAMPLING

Sample Data

Location of Sample: RVIG032796  
 Sample Description: POORLY GRADED SAND WITH SILT  
 USCS Class: SP-SM                      Liquid limit:  
 AASHTO Class:                              Plasticity index:

Notes

Remarks:

Fig. No.: 17

Mechanical Analysis Data

Initial  
 Dry sample and tare= 1308.60  
 Tare = 164.40  
 Dry sample weight = 1144.20  
 Tare for cumulative weight retained= 169.2

sieve	Cumul. Wt. retained	Percent finer
1 inches	169.20	100.0
0.75 inches	205.20	96.9
0.375 inches	256.80	92.3
# 4	543.70	67.3
# 10	1036.10	24.2
# 20	1108.00	18.0
# 40	1136.80	15.4
# 100	1210.00	9.0
# 140	1231.20	7.2
# 200	1239.20	6.5

Fractional Components

% + 75mm. = 0.0      % GRAVEL = 32.7      % SAND = 60.8  
 % FINES = 6.5

D85= 7.16    D60= 4.154    D50= 3.475  
 D30= 2.3442    D15= 0.38905    D10= 0.17378  
 Cc = 7.6120    Cu = 23.9056

GRAIN SIZE DISTRIBUTION TEST DATA

Test No.: 14

Date: 4-29-95  
 Report No.: 1801.0441  
 Project: STREET SEDIMENT SAMPLING

Sample Data

Location of Sample: RVING032796  
 Sample Description: POORLY GRADED SAND  
 USCS Class: SP Liquid limit:  
 AASHTO Class: Plasticity index:

Notes

Remarks:

Fig. No.:

Mechanical Analysis Data

Initial  
 Dry sample and tare = 1236.60  
 Tare = 161.90  
 Dry sample weight = 1074.70  
 Tare for cumulative weight retained = 224.6

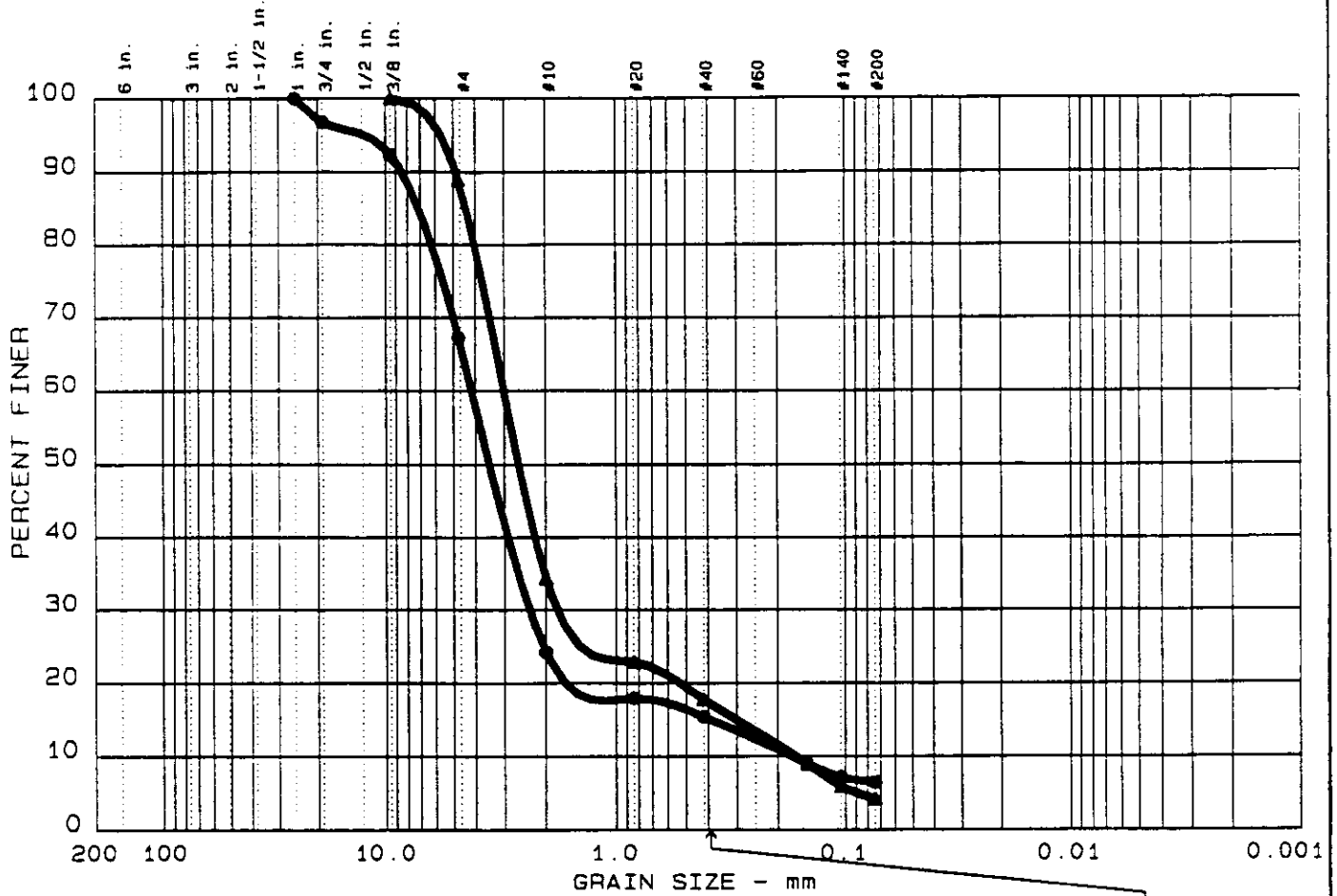
sieve	Cumul. Wt. retained	Percent finer
0.375 inches	224.60	100.0
# 4	343.70	88.9
# 10	930.00	34.4
# 20	1053.20	22.9
# 40	1107.90	17.8
# 100	1202.60	9.0
# 140	1235.40	5.9
# 200	1253.60	4.3

Fractional Components

% + 75mm. = 0.0      % GRAVEL = 11.1      % SAND = 84.7  
 % FINES = 4.2

D85 = 4.40    D60 = 3.006    D50 = 2.612  
 D30 = 1.7865    D15 = 0.29648    D10 = 0.16482  
 Cc = 6.4417    Cu = 18.2390

# GRAIN SIZE DISTRIBUTION TEST REPORT



Test	% +75 mm	% GRAVEL	% SAND	% SILT	% CLAY
● 13	0.0	32.7	60.8	6.5	
▲ 14	0.0	11.1	84.7	4.2	

	LL	PI	D <sub>85</sub>	D <sub>60</sub>	D <sub>50</sub>	D <sub>30</sub>	D <sub>15</sub>	D <sub>10</sub>	C <sub>c</sub>	C <sub>u</sub>
●			7.16	4.15	3.48	2.344	0.3890	0.1738	7.61	23.9
▲			4.40	3.01	2.61	1.786	0.2965	0.1648	6.44	18.2

MATERIAL DESCRIPTION	USCS	AASHTO
● POORLY GRADED SAND WITH SILT	SP-SM	
▲ POORLY GRADED SAND	SP	

Project No.: 1801.0441  
 Project: STREET SEDIMENT SAMPLING  
 ● Location: RVIG032796  
 ▲ Location: RVING032796  
 Date: 4-29-95

Remarks:

Figure No. 17

GRAIN SIZE DISTRIBUTION TEST DATA

Test No.: 15

Date: 4-29-95  
 Project No.: 1801.0441  
 Project: STREET SEDIMENT SAMPLING

Sample Data

Location of Sample: RVNIG032796  
 Sample Description: POORLY GRADED SAND  
 USCS Class: SP Liquid limit:  
 AASHTO Class: Plasticity index:

Notes

Remarks:

Fig. No.: 18

Mechanical Analysis Data

Initial  
 Dry sample and tare= 747.40  
 Tare = 227.60  
 Dry sample weight = 519.80  
 Tare for cumulative weight retained= 228

Size	Cumul. Wt. retained	Percent finer
0.75 inches	228.00	100.0
0.375 inches	288.40	88.4
# 4	461.00	55.2
# 10	693.70	10.4
# 20	716.20	6.1
# 40	721.10	5.1
# 100	734.70	2.5
# 140	737.50	2.0
# 200	737.80	1.9

Fractional Components

% + 75mm. = 0.0      % GRAVEL = 44.8      % SAND = 53.3  
 % FINES = 1.9

D85= 8.61    D60= 5.164    D50= 4.365  
 D30= 3.1153    D15= 2.28297    D10= 1.96562  
 Cc = 0.9561    Cu = 2.6272

GRAIN SIZE DISTRIBUTION TEST DATA

Test No.: 16

Date: 4-29-95  
 Project No.: 1801.0441  
 Project: STREET SEDIMENT SAMPLING

Sample Data

Location of Sample: RVNING032796  
 Sample Description: WELL GRADED SAND  
 JSCS Class: SW                      Liquid limit:  
 AASHTO Class:                      Plasticity index:

Notes

Remarks:

Fig. No.:

Mechanical Analysis Data

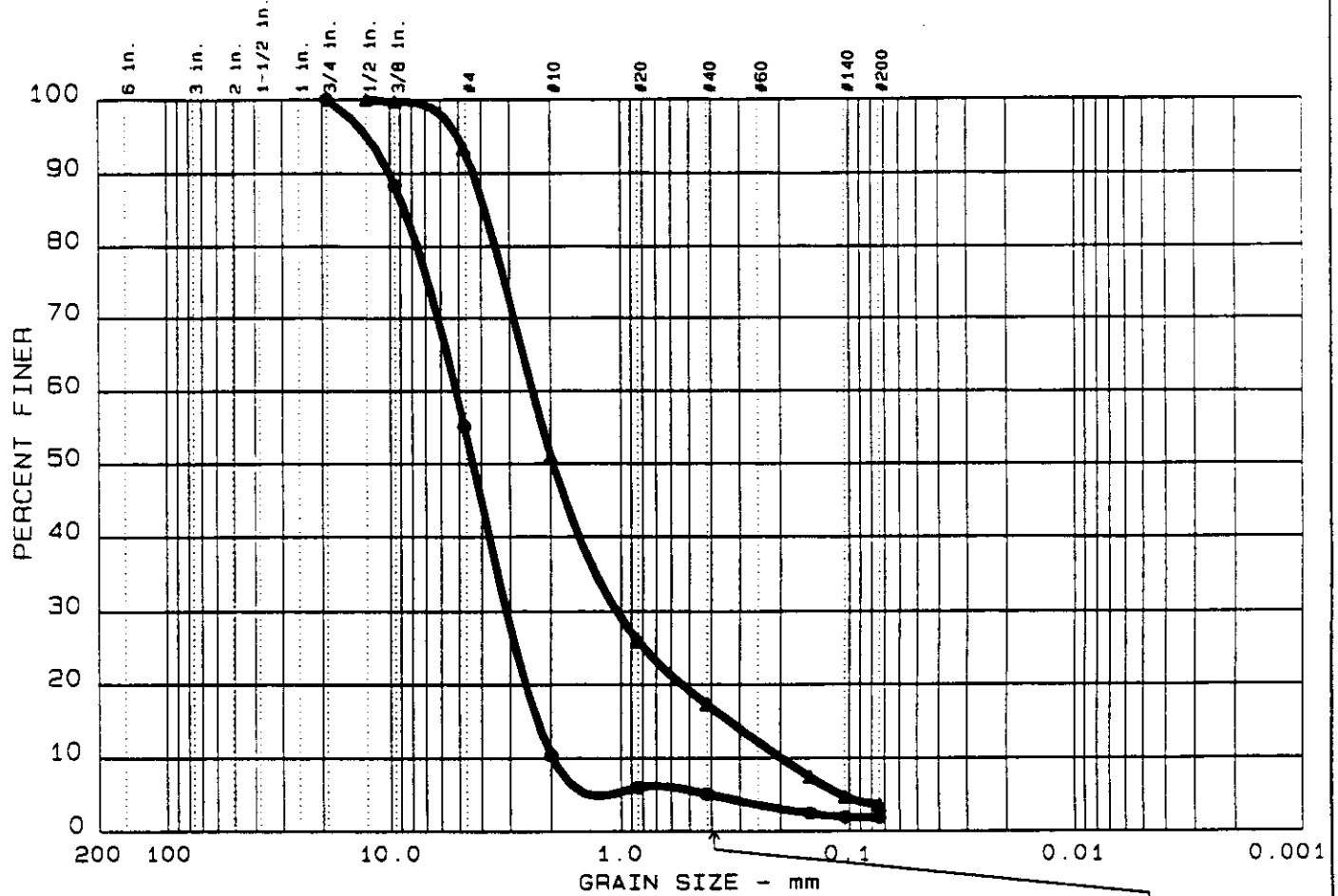
	Initial	
Dry sample and tare=	802.20	
Tare =	223.00	
Dry sample weight =	579.20	
Tare for cumulative weight retained=	223	
sieve	Cumul. Wt. retained	Percent finer
0.5 inches	223.00	100.0
0.375 inches	224.70	99.7
# 4	261.70	93.3
# 10	507.40	50.9
# 20	651.50	26.0
# 40	702.10	17.3
# 100	759.20	7.4
# 140	774.60	4.8
# 200	781.20	3.6

Fractional Components

% + 75mm. = 0.0      % GRAVEL = 6.7      % SAND = 89.7  
 % FINES = 3.6

D85= 3.83    D60= 2.391    D50= 1.961  
 D30= 1.0411    D15= 0.33304    D10= 0.19838  
 Cc = 2.2856    Cu = 12.0504

# GRAIN SIZE DISTRIBUTION TEST REPORT



Test	%+75 mm	% GRAVEL	% SAND	% SILT	% CLAY
● 15	0.0	44.8	53.3	1.9	
▲ 16	0.0	6.7	89.7	3.6	

	LL	PI	D <sub>85</sub>	D <sub>60</sub>	D <sub>50</sub>	D <sub>30</sub>	D <sub>15</sub>	D <sub>10</sub>	C <sub>c</sub>	C <sub>u</sub>
●			8.61	5.16	4.37	3.115	2.2830	1.9656	0.96	2.6
▲			3.83	2.39	1.96	1.041	0.3330	0.1984	2.29	12.1

MATERIAL DESCRIPTION	USCS	AASHTO
● POORLY GRADED SAND	SP	
▲ WELL GRADED SAND	SW	

Project No.: 1801.0441  
 Project: STREET SEDIMENT SAMPLING  
 ● Location: RVNIG032796  
 ▲ Location: RVNING032796  
 Date: 4-29-95

GRAIN SIZE DISTRIBUTION TEST REPORT  
**RODNEY P. KINNEY ASSOCIATES**

Remarks:

Figure No. 18

GRAIN SIZE DISTRIBUTION TEST DATA

Test No.: 1

Date: 4-29-95  
 Project No.: 1801.0441  
 Project: STREET SEDIMENT SAMPLING

Sample Data

Location of Sample: RVING032796AQ  
 Sample Description: POORLY GRADED SAND WITH SILT  
 USCS Class: SP-SM Liquid limit:  
 AASHTO Class: Plasticity index:

Notes

Remarks:

Fig. No.: 28

Mechanical Analysis Data

Initial  
 Dry sample and tare= 1089.00  
 Tare = 229.20  
 Dry sample weight = 859.80  
 Tare for cumulative weight retained= 228

Sieve	Cumul. Wt. retained	Percent finer
0.5 inches	228.00	100.0
0.375 inches	232.00	99.5
# 4	297.40	91.9
# 10	664.50	49.2
# 20	777.30	36.1
# 40	834.10	29.5
# 100	950.40	16.0
# 140	988.20	11.6
# 200	1011.70	8.9

Fractional Components

3/8 + 75mm. = 0.0 % GRAVEL = 8.1 % SAND = 83.1  
 3/8 FINES = 8.8

D85= 4.01 D60= 2.518 D50= 2.039  
 D30= 0.4360 D15= 0.13788 D10= 0.08700  
 Cc = 0.8680 Cu = 28.9401



GRAIN SIZE DISTRIBUTION TEST DATA

Test No.: 16

Date: 4-29-95  
 Project No.: 1801.0441  
 Project: STREET SEDIMENT SAMPLING

Sample Data

Location of Sample: RVNING032796AQ  
 Sample Description: WELL GRADED SAND WITH SILT  
 USCS Class: SW-SM Liquid limit:  
 AASHTO Class: Plasticity index:

Notes

Remarks:

Fig. No.:

Mechanical Analysis Data

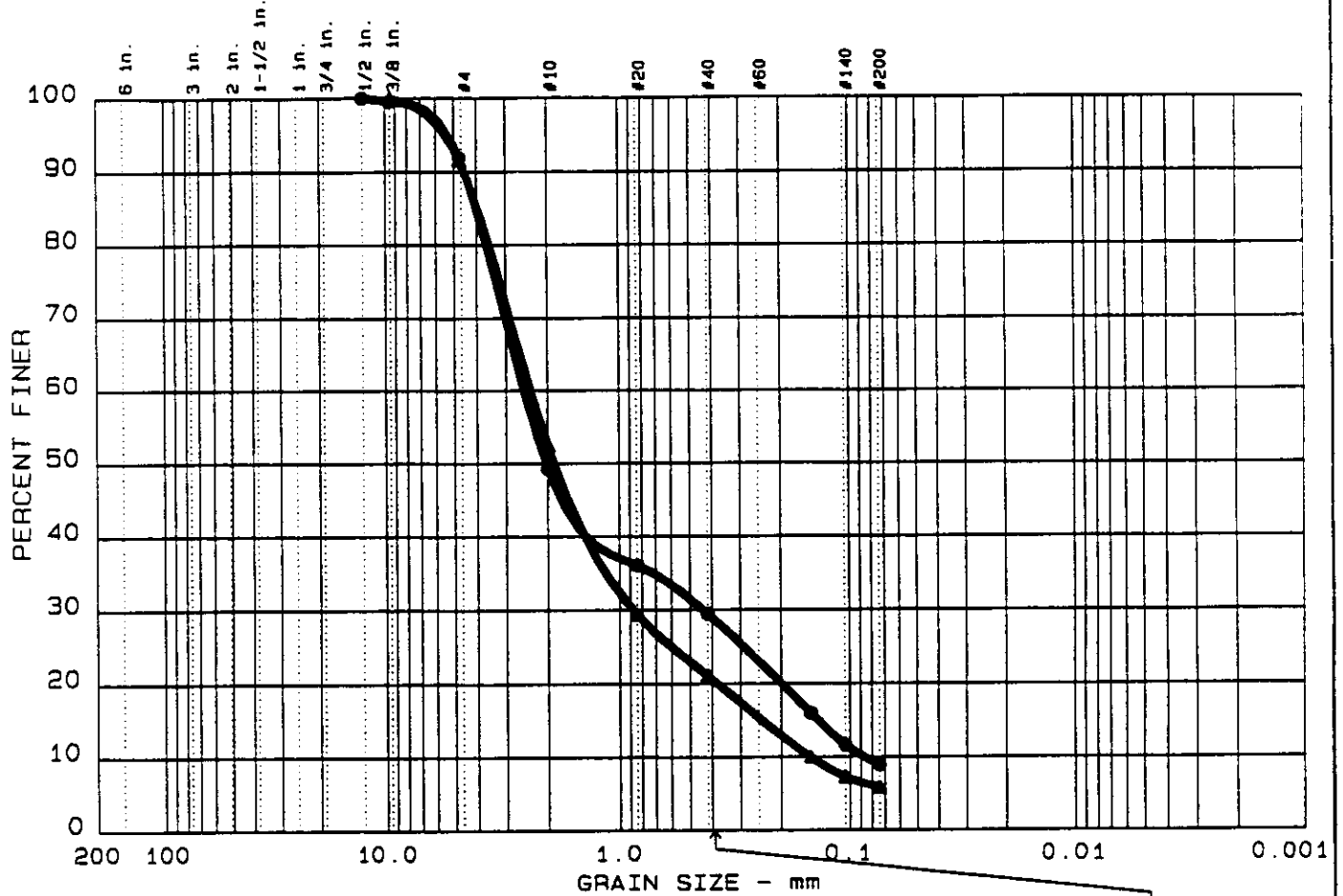
Sieve	Cumul. Wt. retained	Percent finer
Initial		
Dry sample and tare=	497.80	
Tare =	168.40	
Dry sample weight =	329.40	
Tare for cumulative weight retained=	224.5	
0.375 inches	224.50	100.0
# 4	252.10	91.6
# 10	381.10	52.5
# 20	457.00	29.4
# 40	484.50	21.1
# 100	521.20	9.9
# 140	530.30	7.2
# 200	534.80	5.8

Fractional Components

% + 75mm. = 0.0      % GRAVEL = 8.4      % SAND = 85.8  
 % FINES = 5.8

D85= 3.96    D60= 2.358    D50= 1.884  
 D30= 0.8710    D15= 0.24266    D10= 0.14962  
 Cc = 2.1503    Cu = 15.7580

# GRAIN SIZE DISTRIBUTION TEST REPORT



Test	%+75mm	% GRAVEL	% SAND	% SILT	% CLAY
● 1	0.0	8.1	83.1	8.8	
▲ 16	0.0	8.4	85.8	5.8	

	LL	PI	D <sub>85</sub>	D <sub>60</sub>	D <sub>50</sub>	D <sub>30</sub>	D <sub>15</sub>	D <sub>10</sub>	C <sub>c</sub>	C <sub>u</sub>
●			4.01	2.52	2.04	0.436	0.1379	0.0870	0.87	28.9
▲			3.96	2.36	1.88	0.871	0.2427	0.1496	2.15	15.8

MATERIAL DESCRIPTION	USCS	AASHTO
● POORLY GRADED SAND WITH SILT	SP-SM	
▲ WELL GRADED SAND WITH SILT	SW-SM	

Project No.: 1801.0441  
 Project: STREET SEDIMENT SAMPLING  
 ● Location: RVING032796AQ  
 ▲ Location: RVNING032796AQ  
 Date: 4-29-95

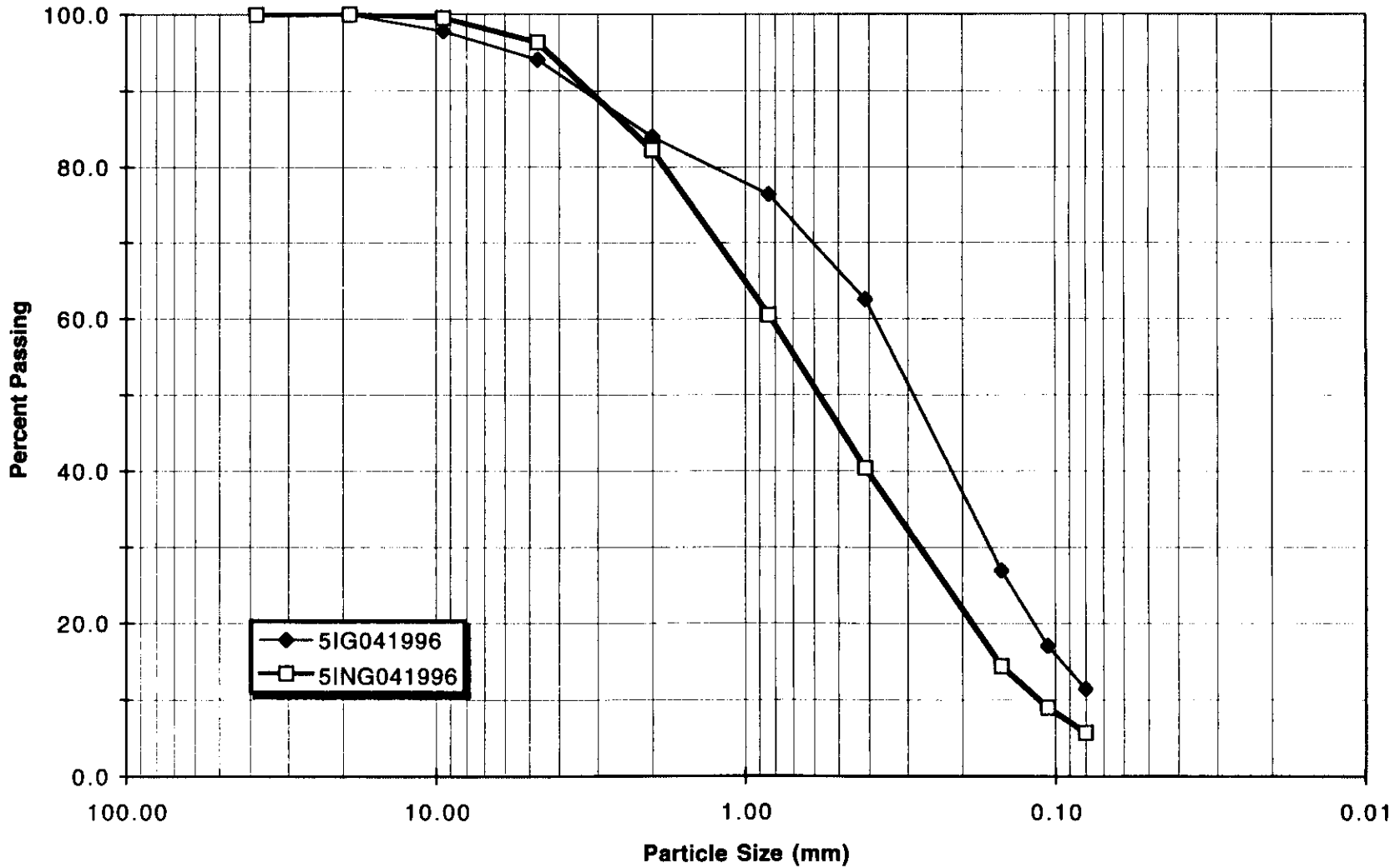
Remarks:

Figure No. 28

## Round 2 Particle Size Distribution (Sieve Analysis) Plots

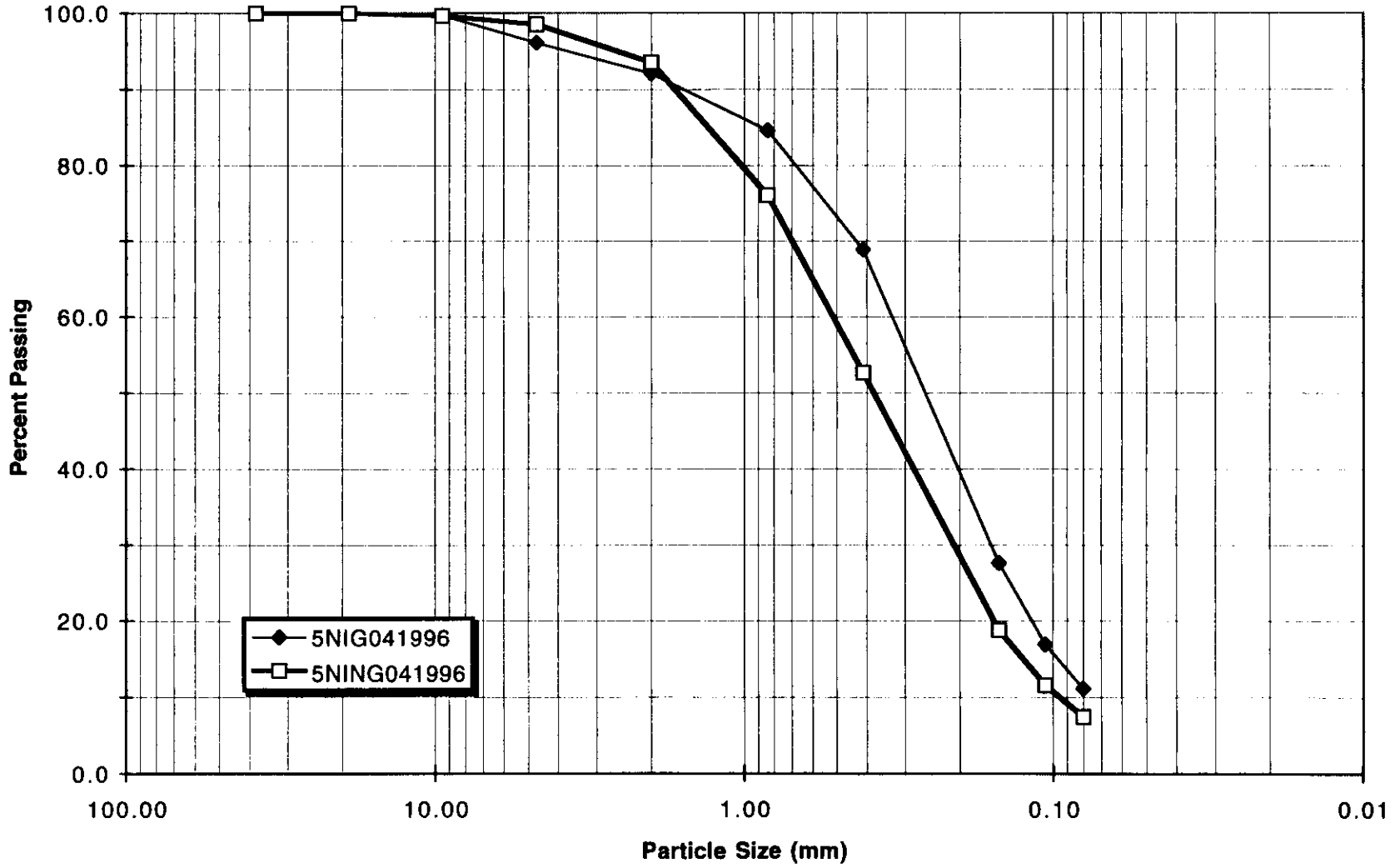
# GRAIN SIZE DISTRIBUTION TEST REPORT

## Street Sediment Loads Project



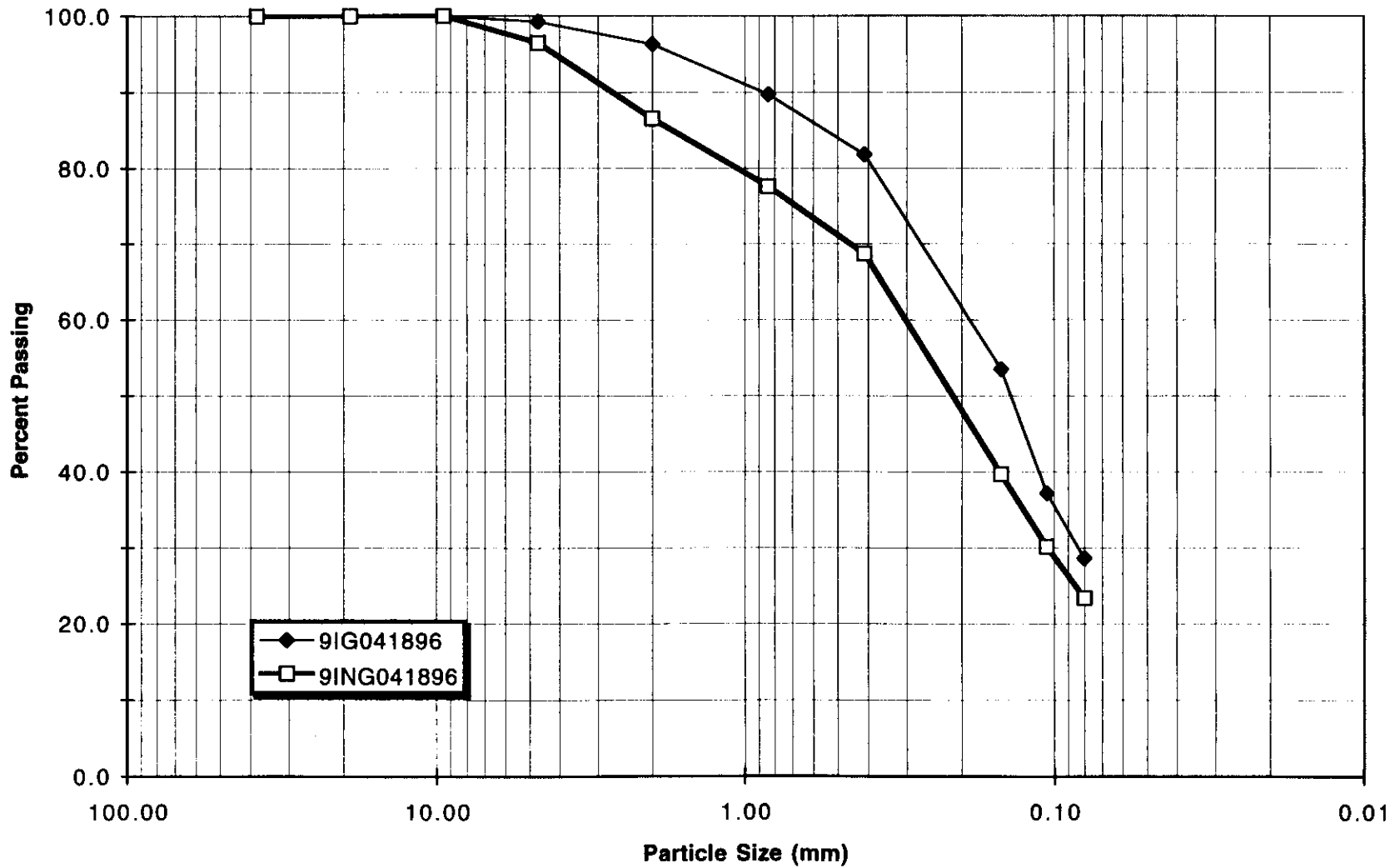
# GRAIN SIZE DISTRIBUTION TEST REPORT

## Street Sediment Loads Project



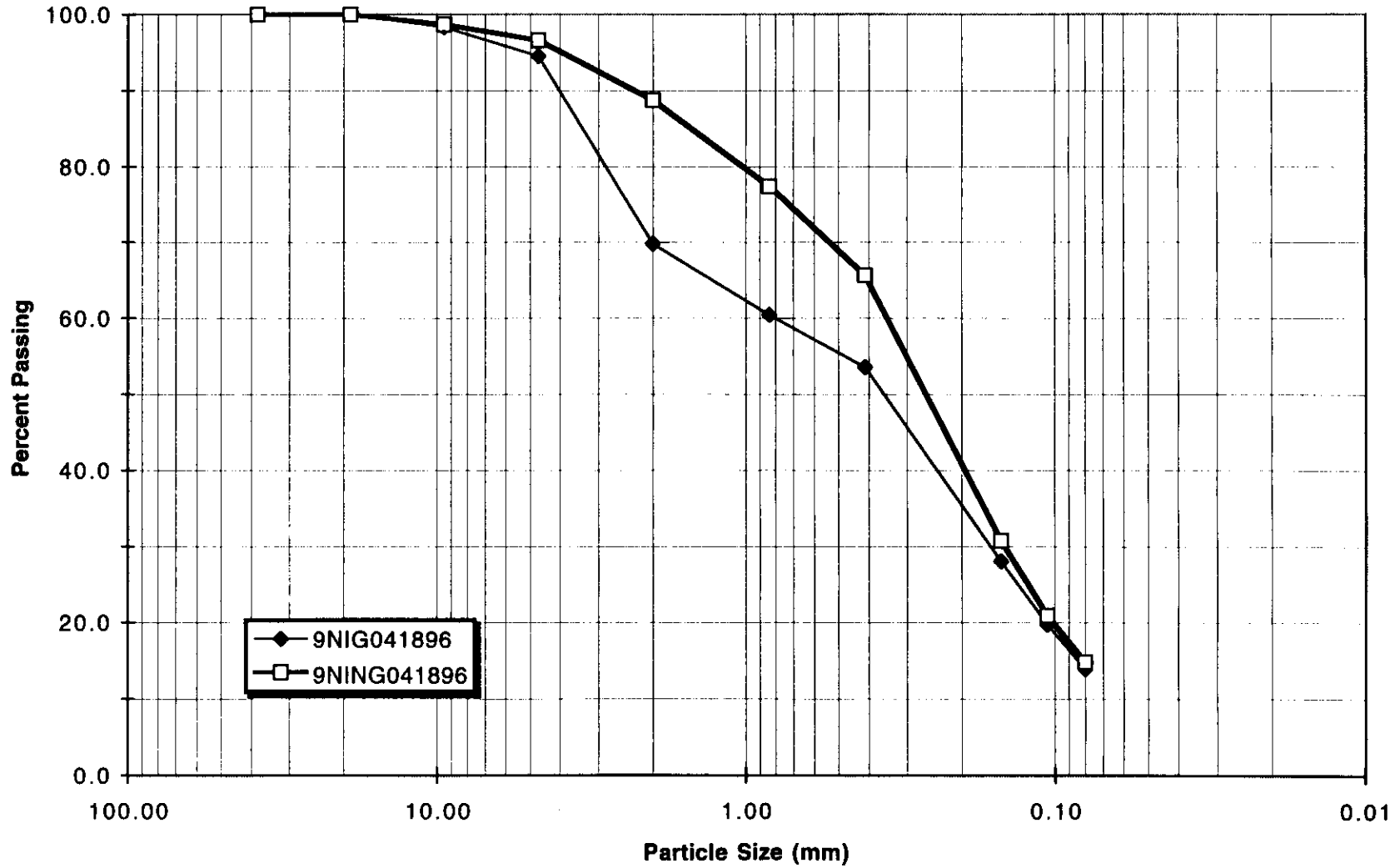
# GRAIN SIZE DISTRIBUTION TEST REPORT

## Street Sediment Loads Project



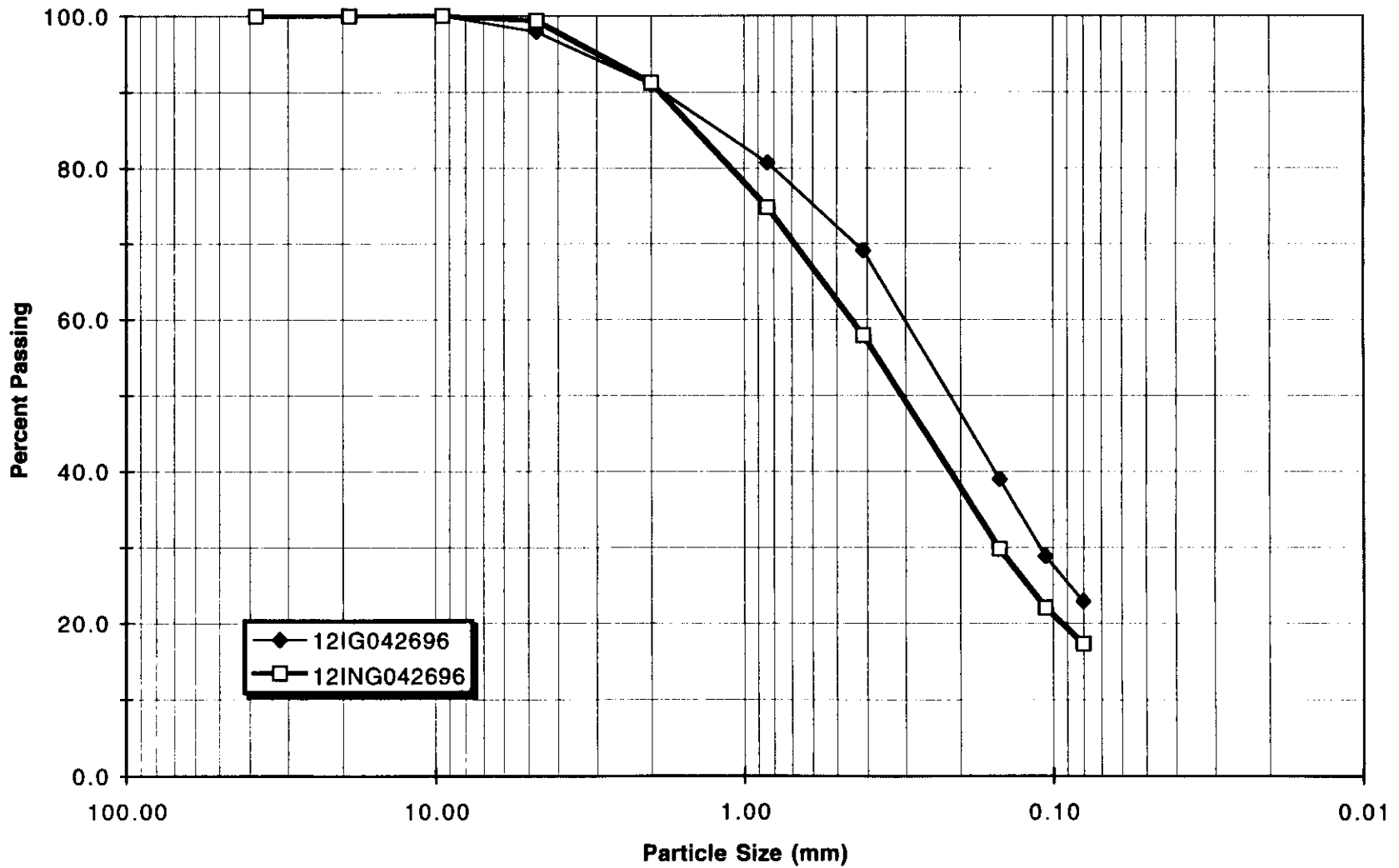
# GRAIN SIZE DISTRIBUTION TEST REPORT

## Street Sediment Loads Project



# GRAIN SIZE DISTRIBUTION TEST REPORT

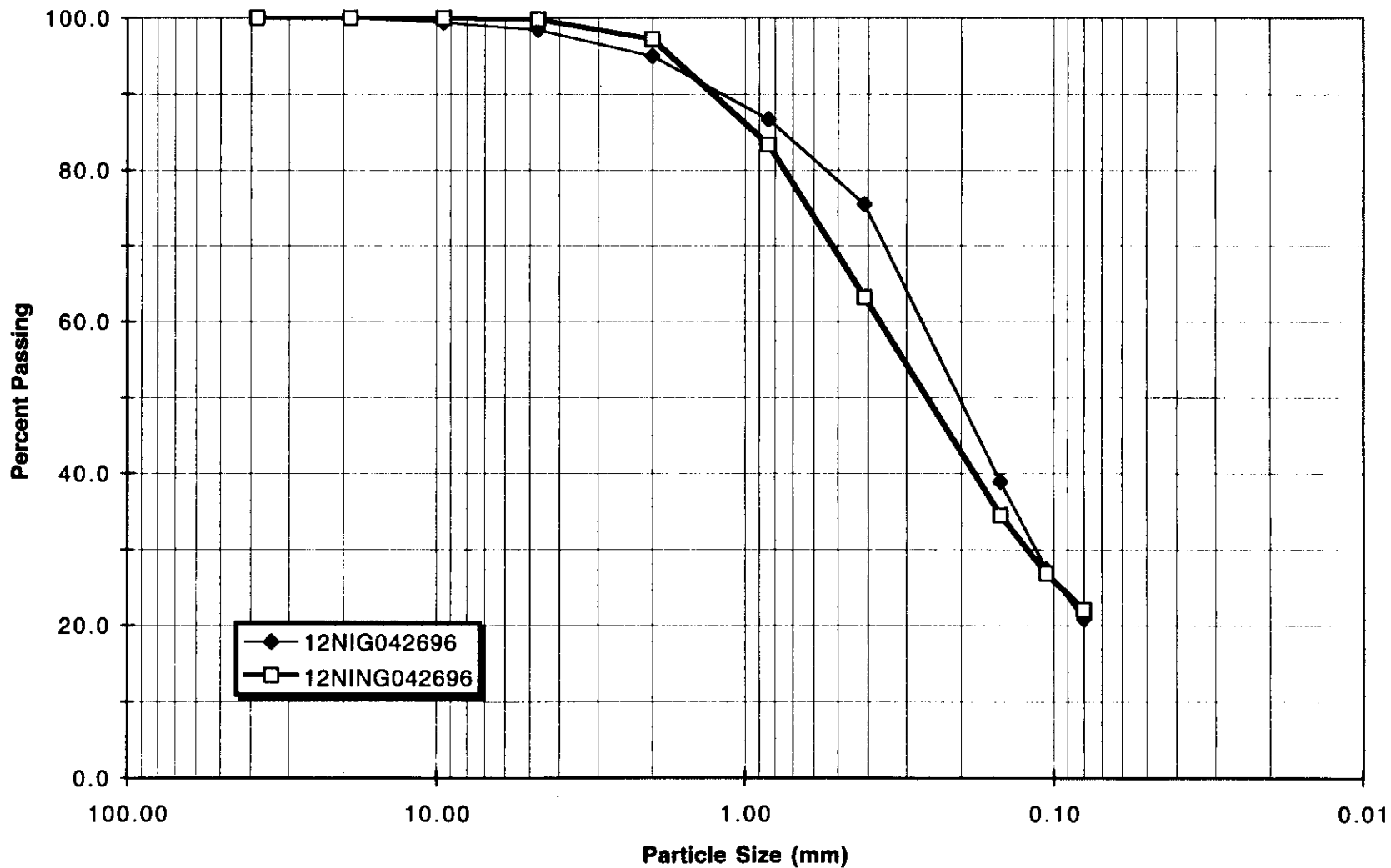
## Street Sediment Loads Project





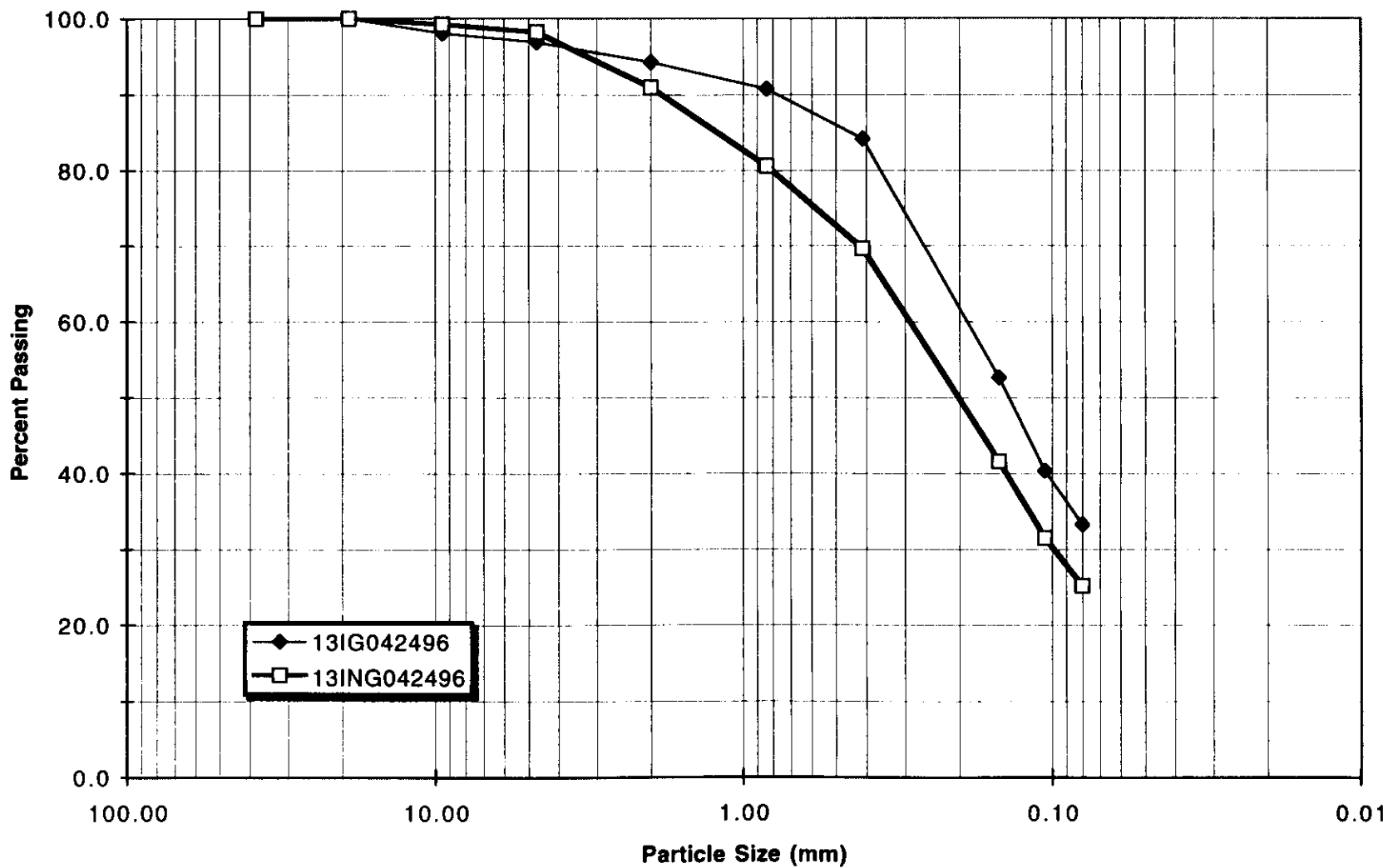
# GRAIN SIZE DISTRIBUTION TEST REPORT

## Street Sediment Loads Project



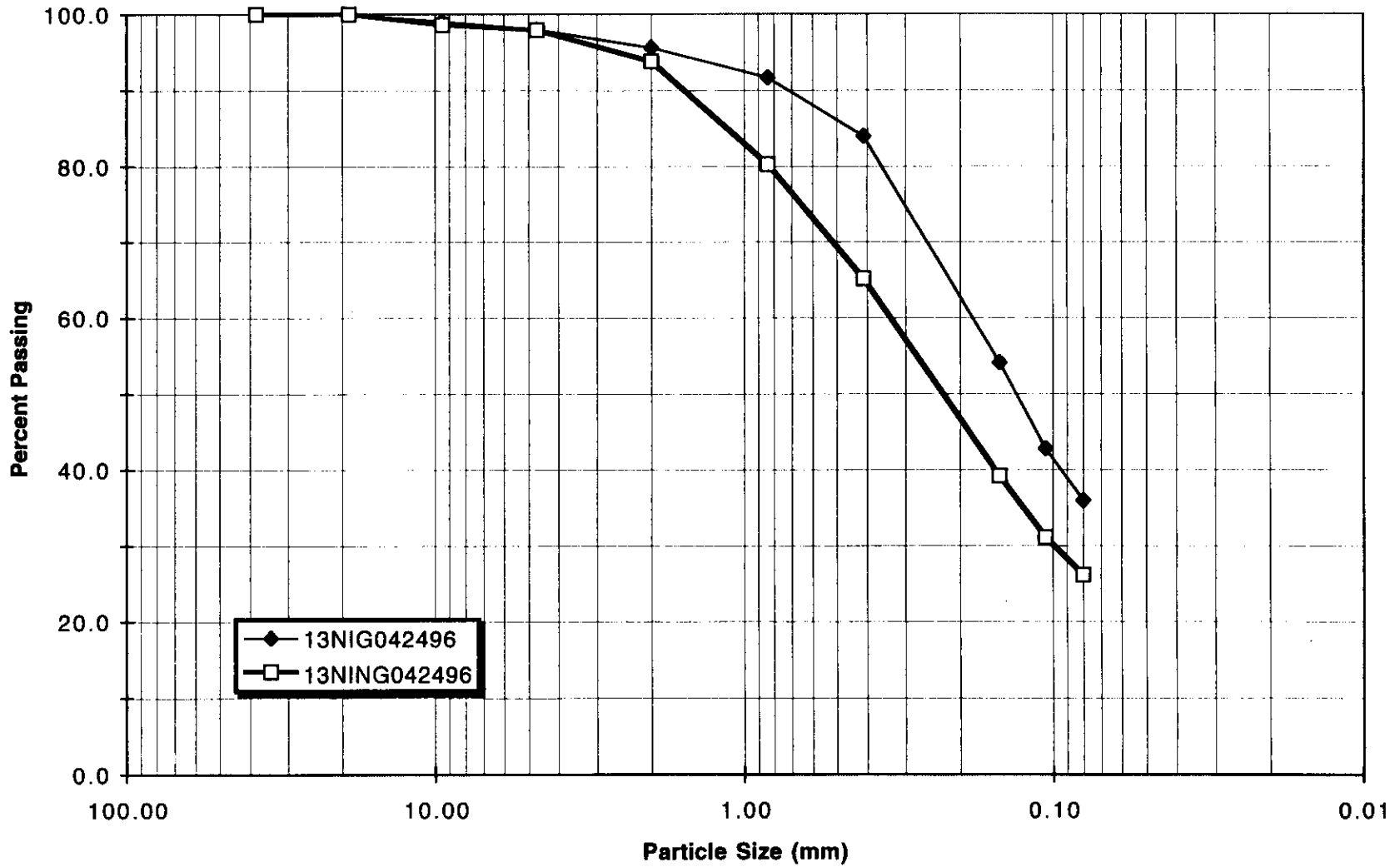
# GRAIN SIZE DISTRIBUTION TEST REPORT

## Street Sediment Loads Project



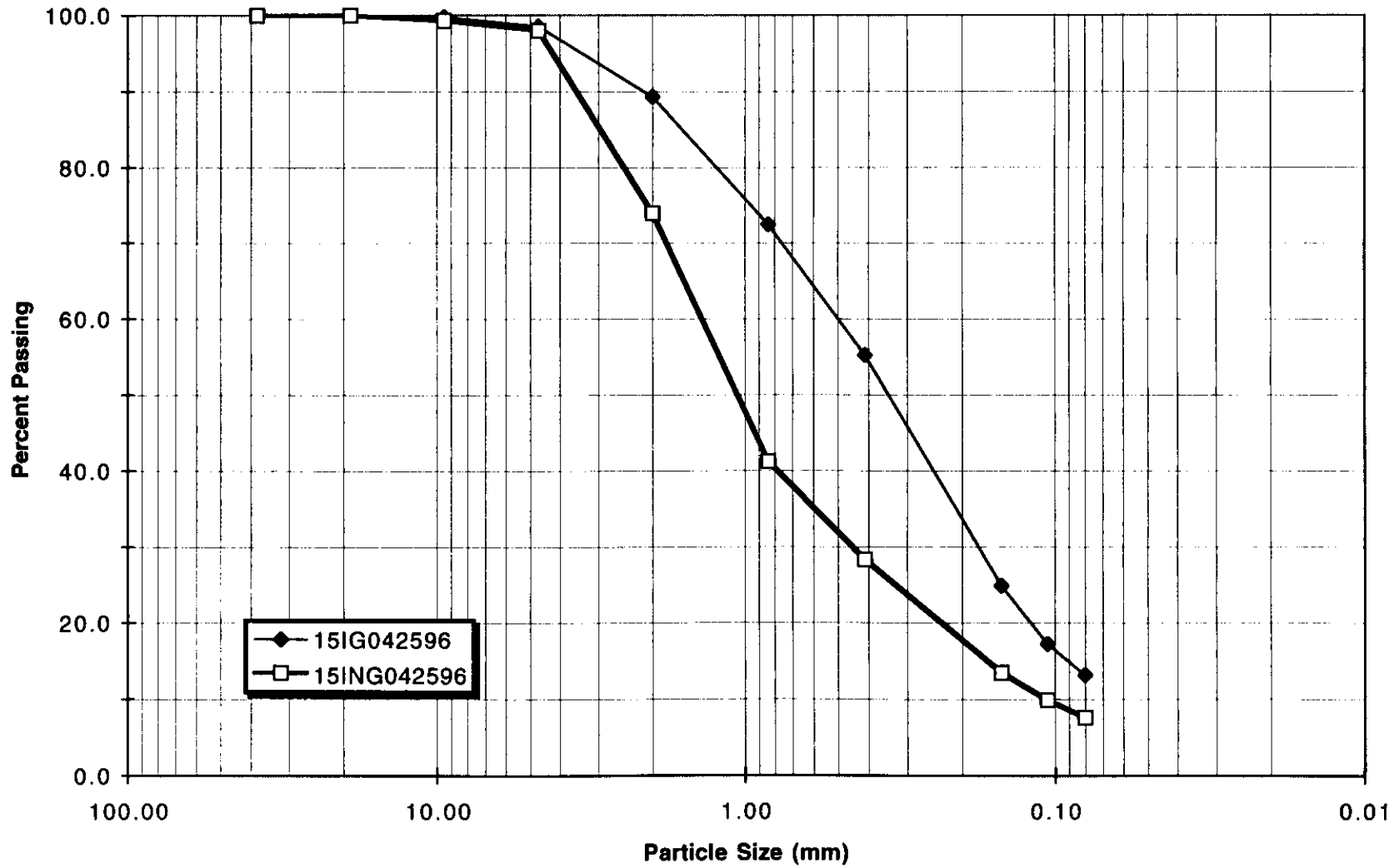
# GRAIN SIZE DISTRIBUTION TEST REPORT

## Street Sediment Loads Project



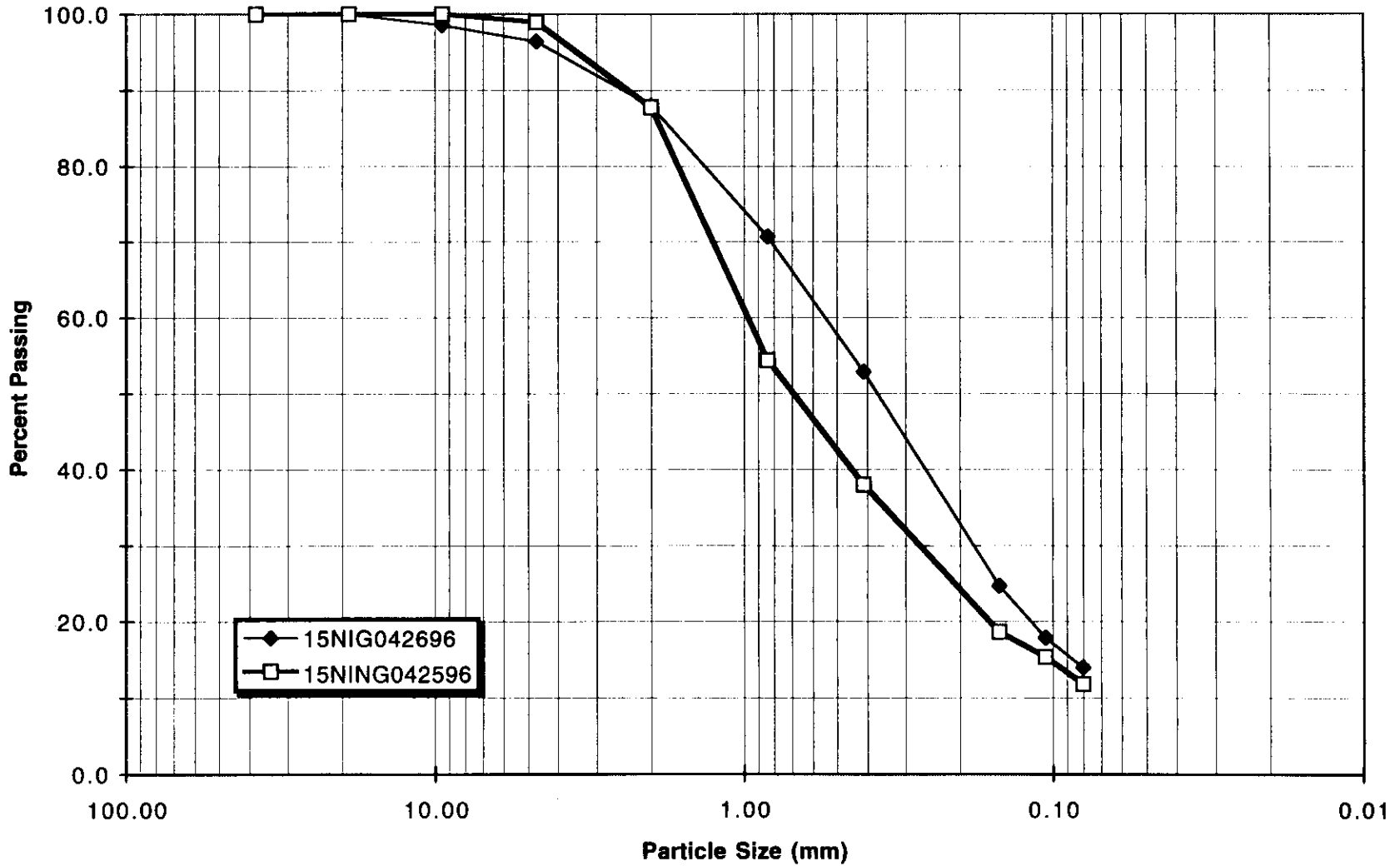
# GRAIN SIZE DISTRIBUTION TEST REPORT

## Street Sediment Loads Project



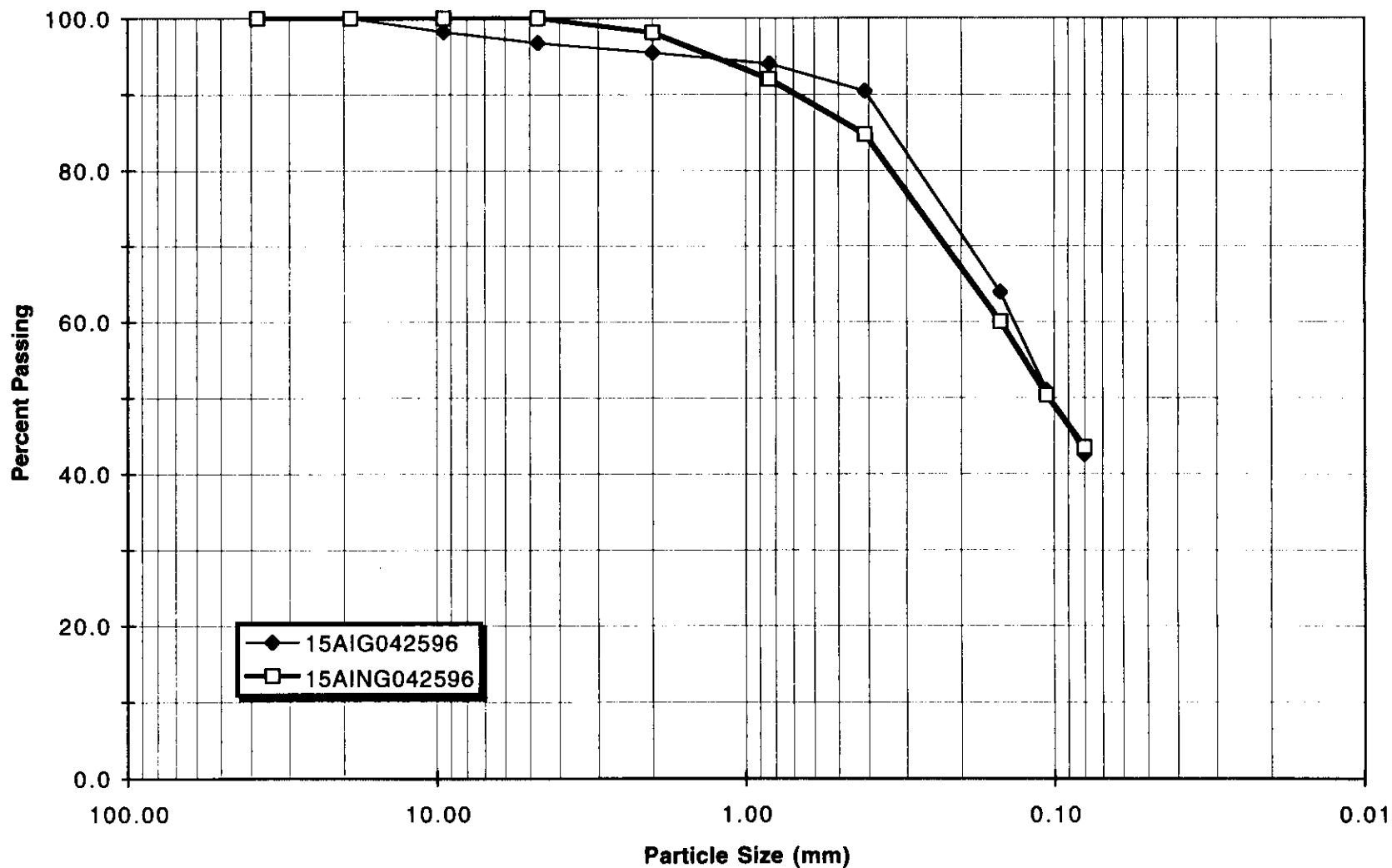
# GRAIN SIZE DISTRIBUTION TEST REPORT

## Street Sediment Loads Project



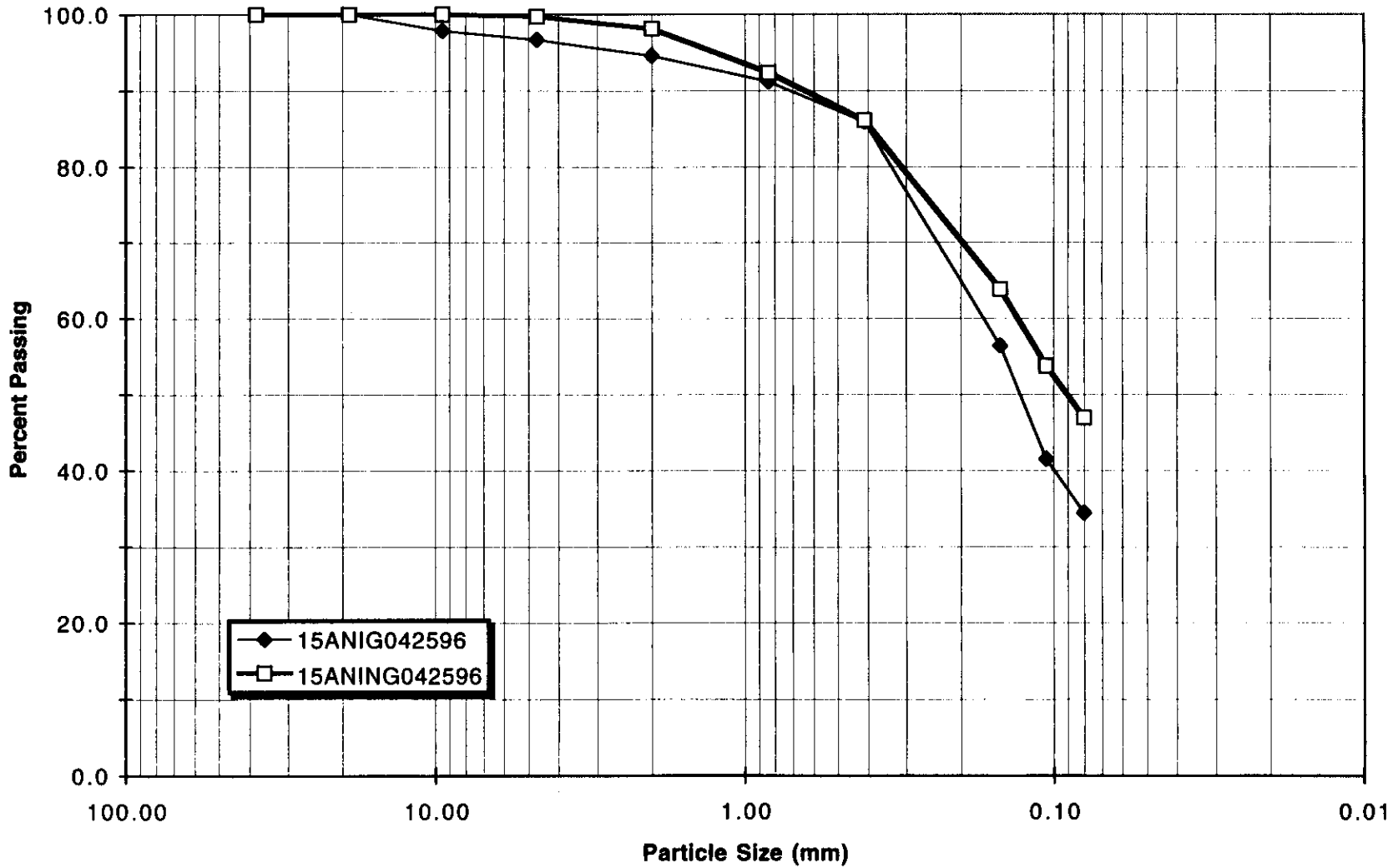
# GRAIN SIZE DISTRIBUTION TEST REPORT

## Street Sediment Loads Project



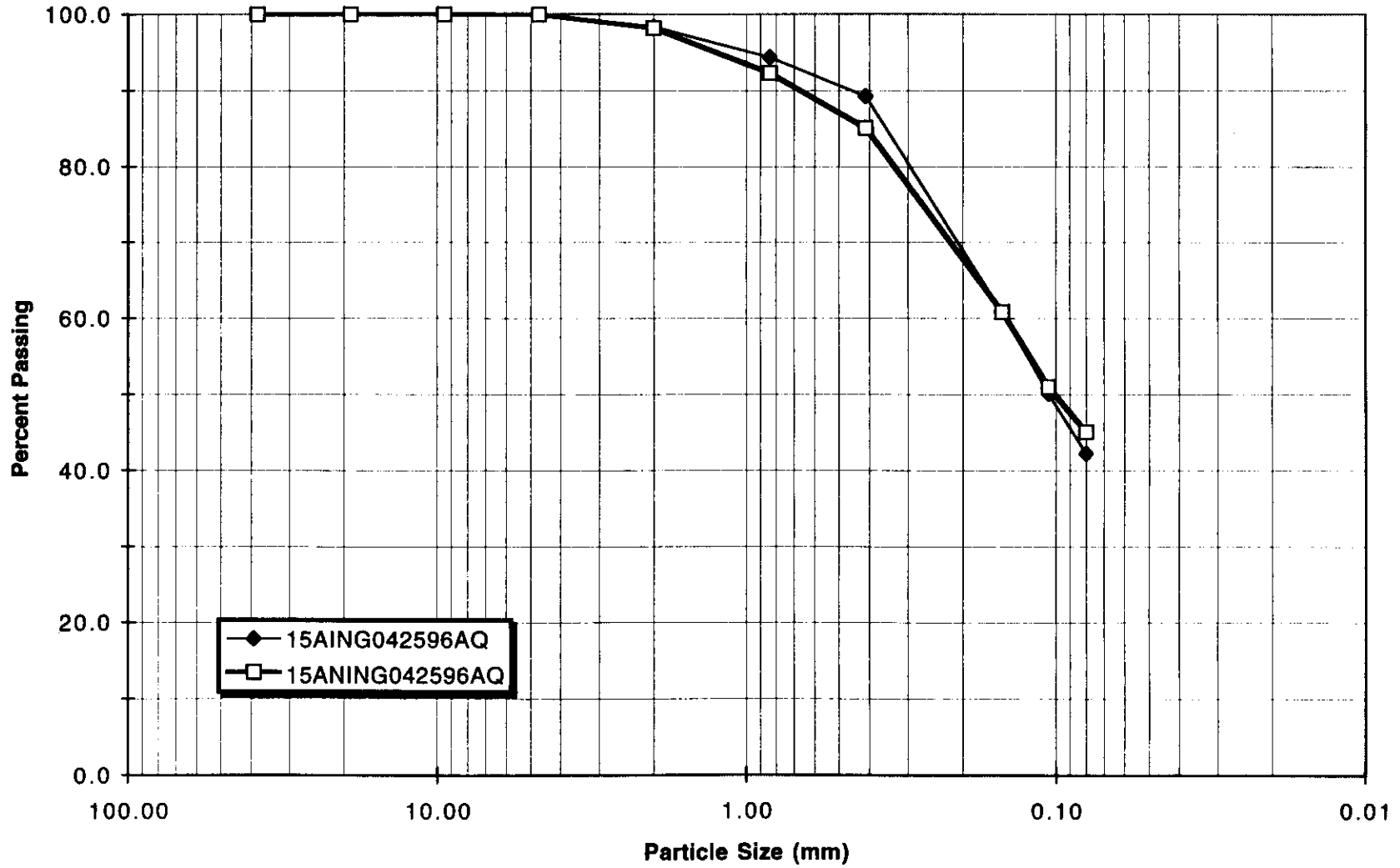
# GRAIN SIZE DISTRIBUTION TEST REPORT

## Street Sediment Loads Project



# GRAIN SIZE DISTRIBUTION TEST REPORT

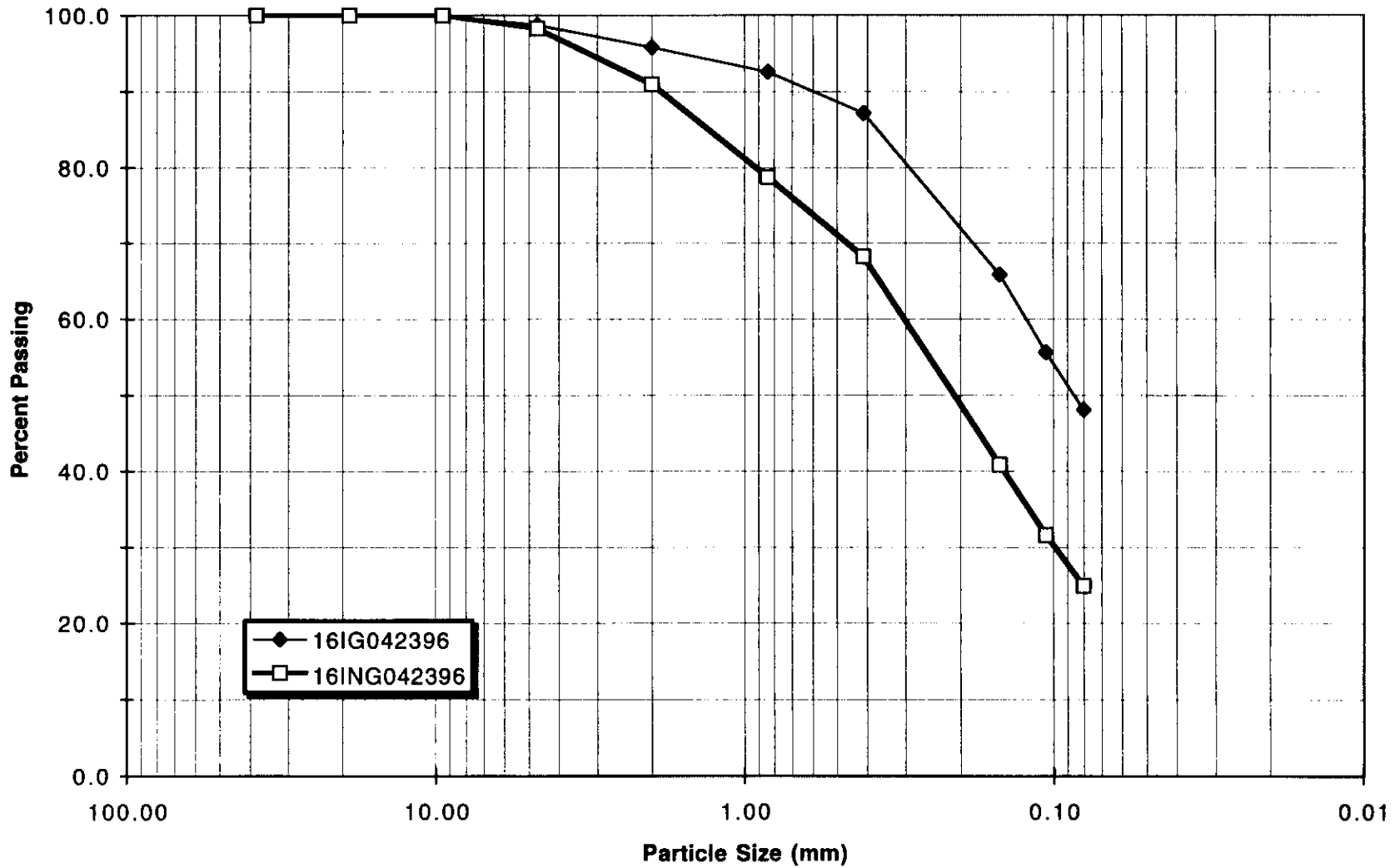
## Street Sediment Loads Project





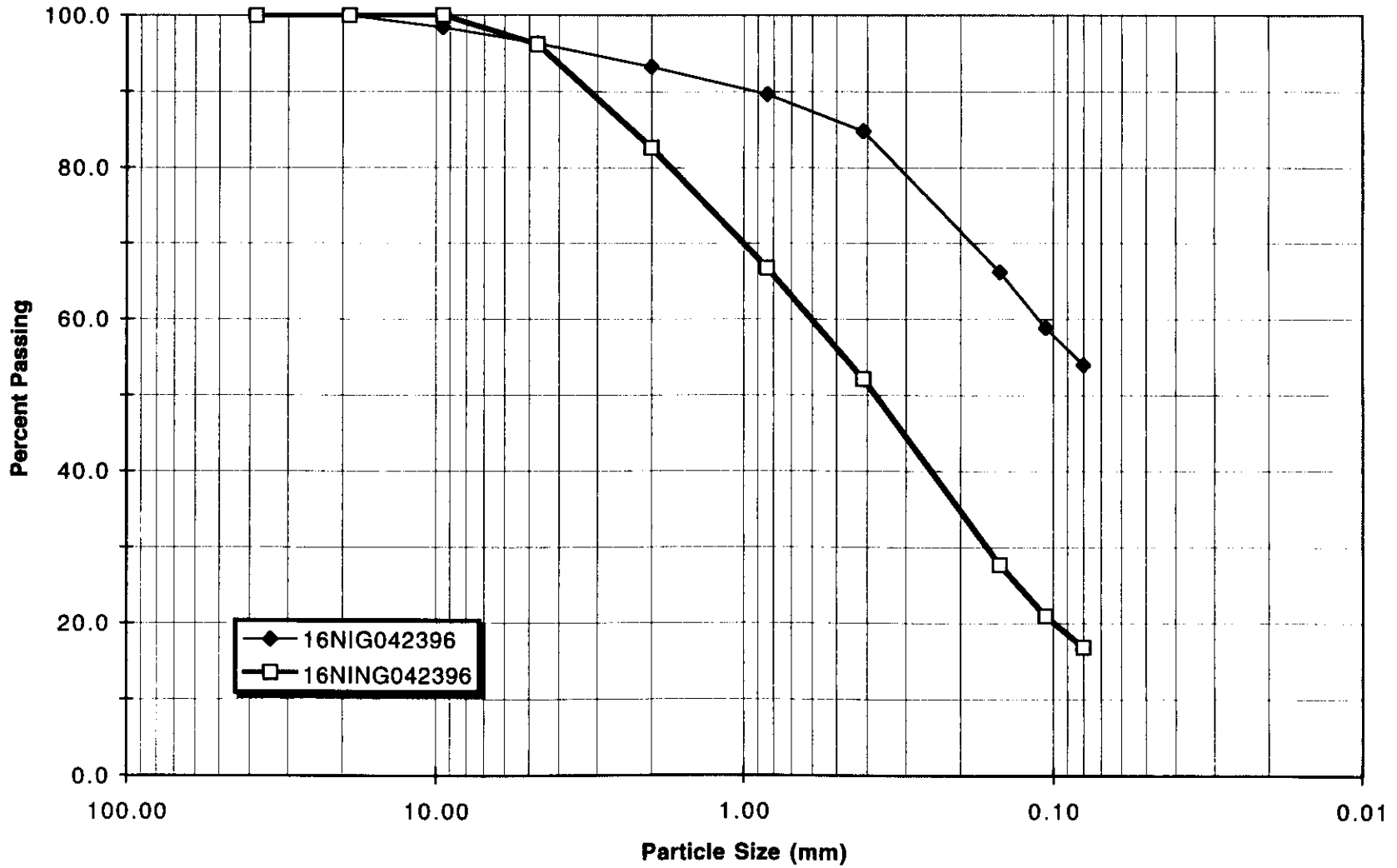
# GRAIN SIZE DISTRIBUTION TEST REPORT

## Street Sediment Loads Project



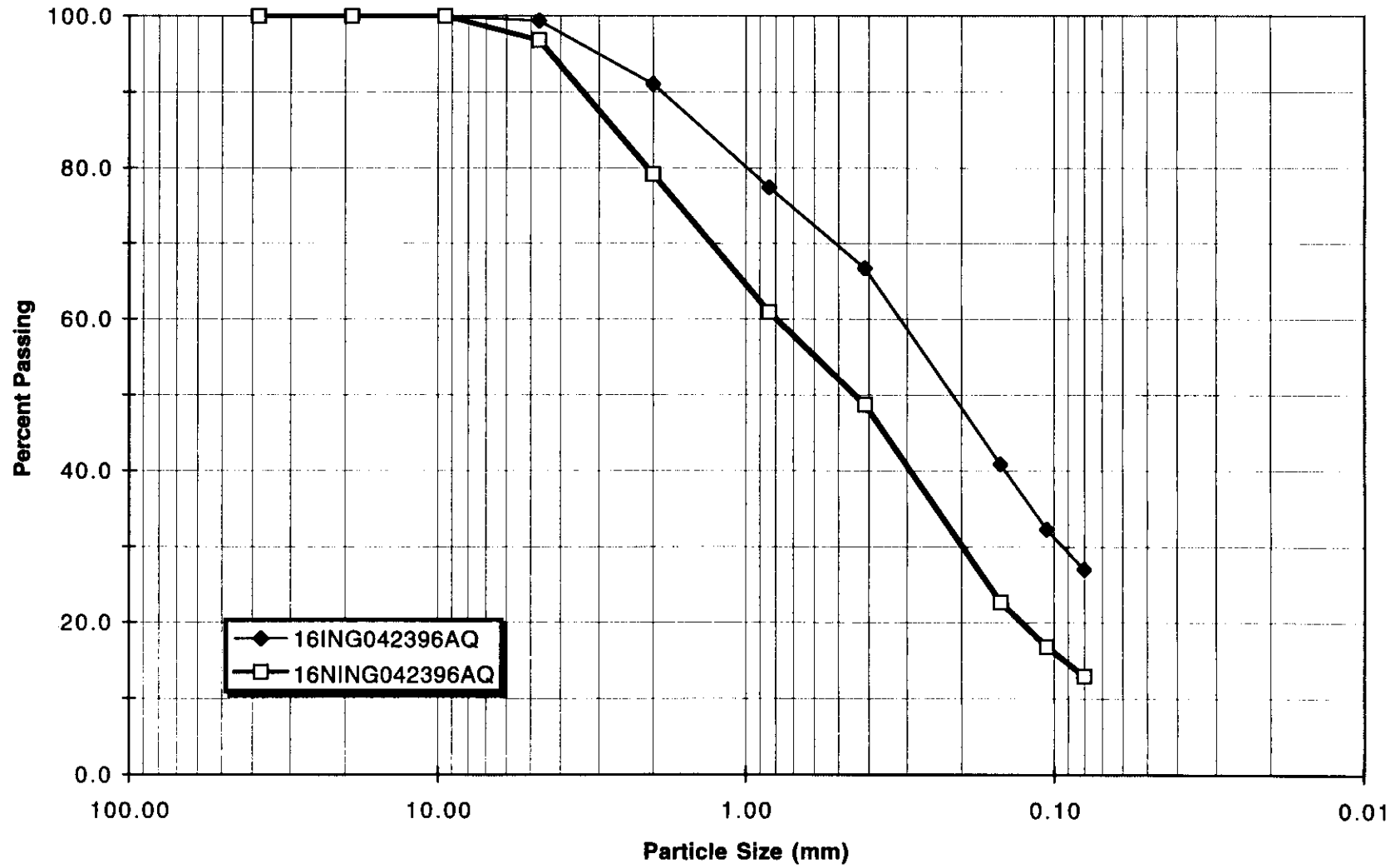
# GRAIN SIZE DISTRIBUTION TEST REPORT

## Street Sediment Loads Project



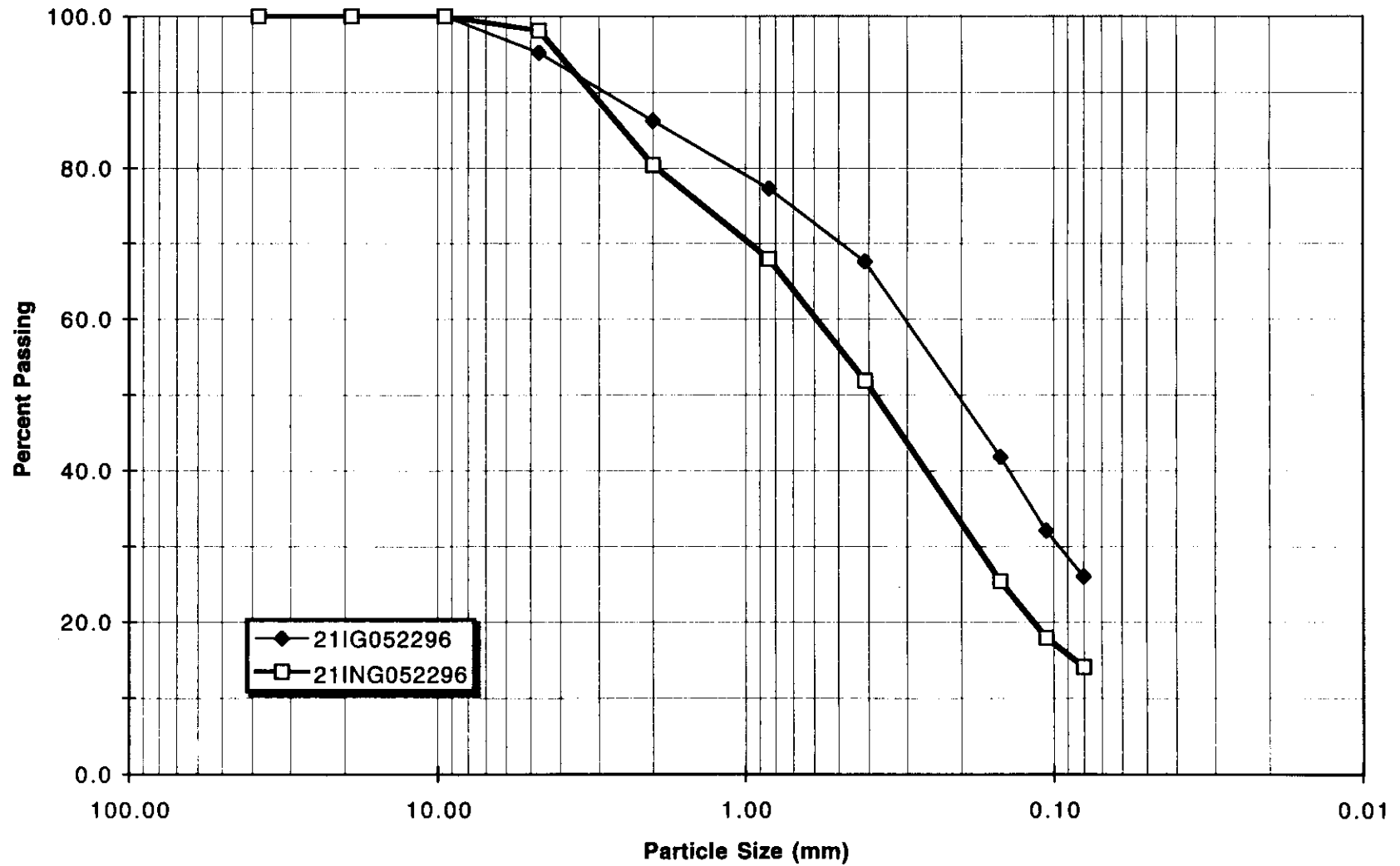
# GRAIN SIZE DISTRIBUTION TEST REPORT

## Street Sediment Loads Project



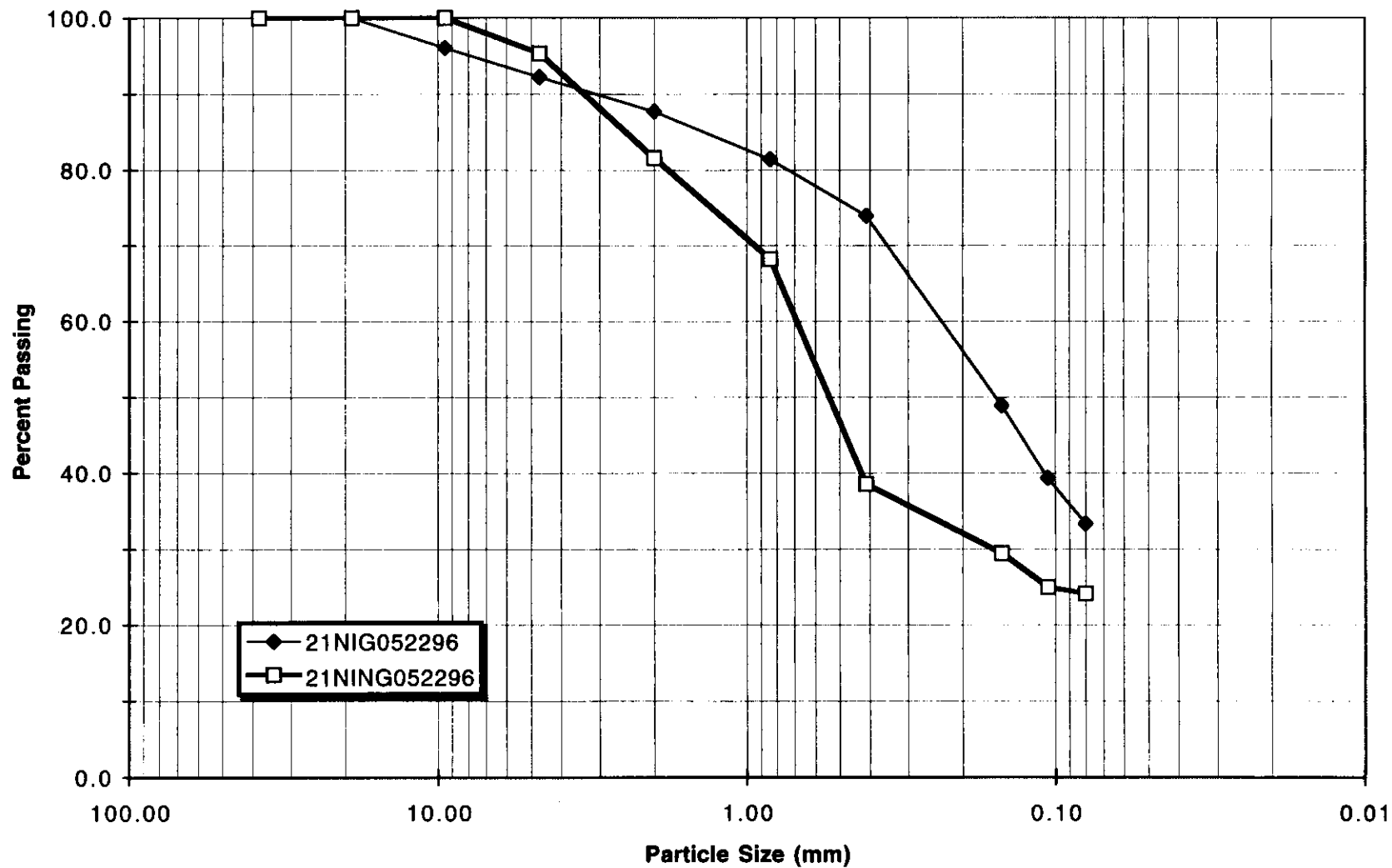
# GRAIN SIZE DISTRIBUTION TEST REPORT

## Street Sediment Loads Project



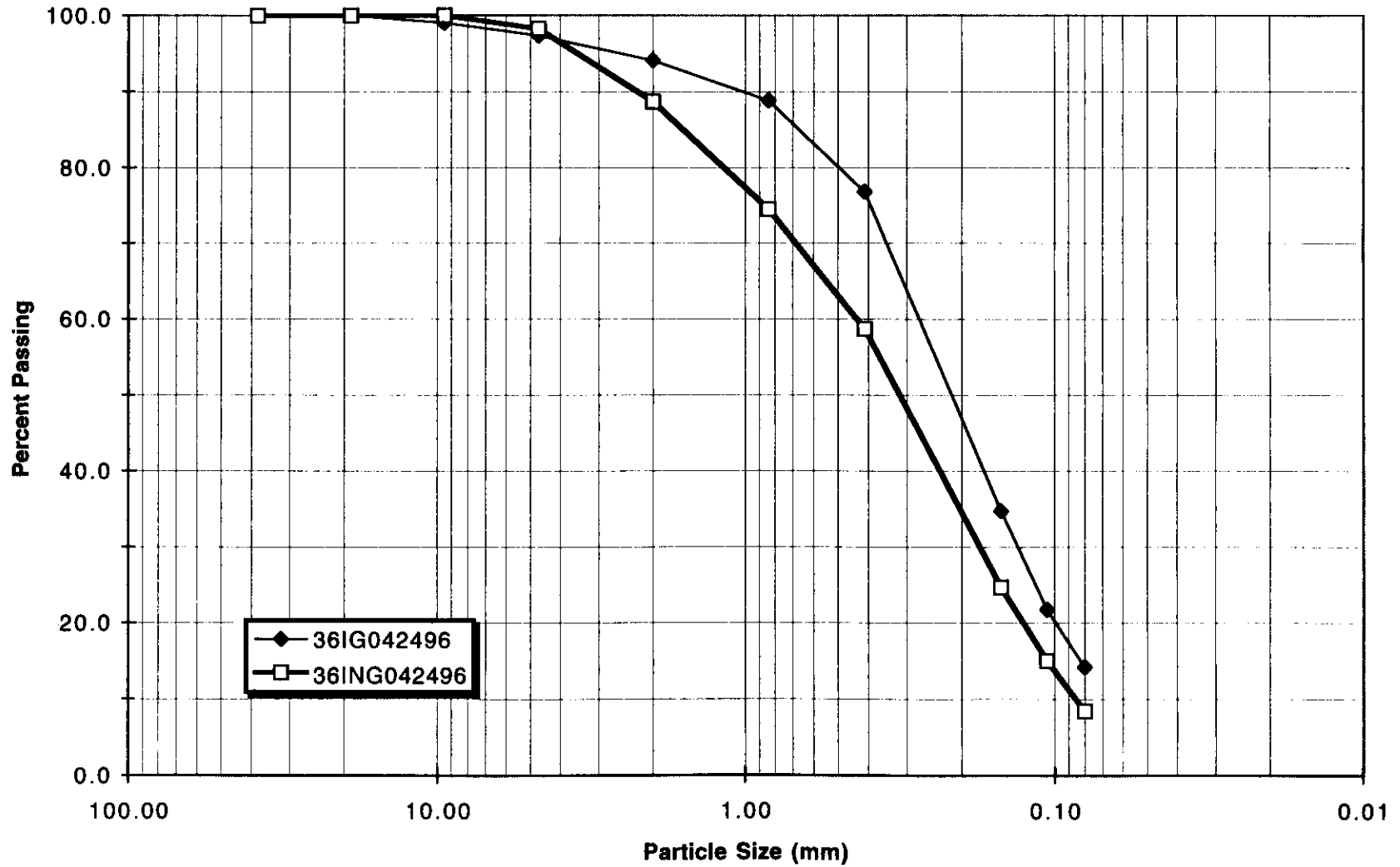
# GRAIN SIZE DISTRIBUTION TEST REPORT

## Street Sediment Loads Project



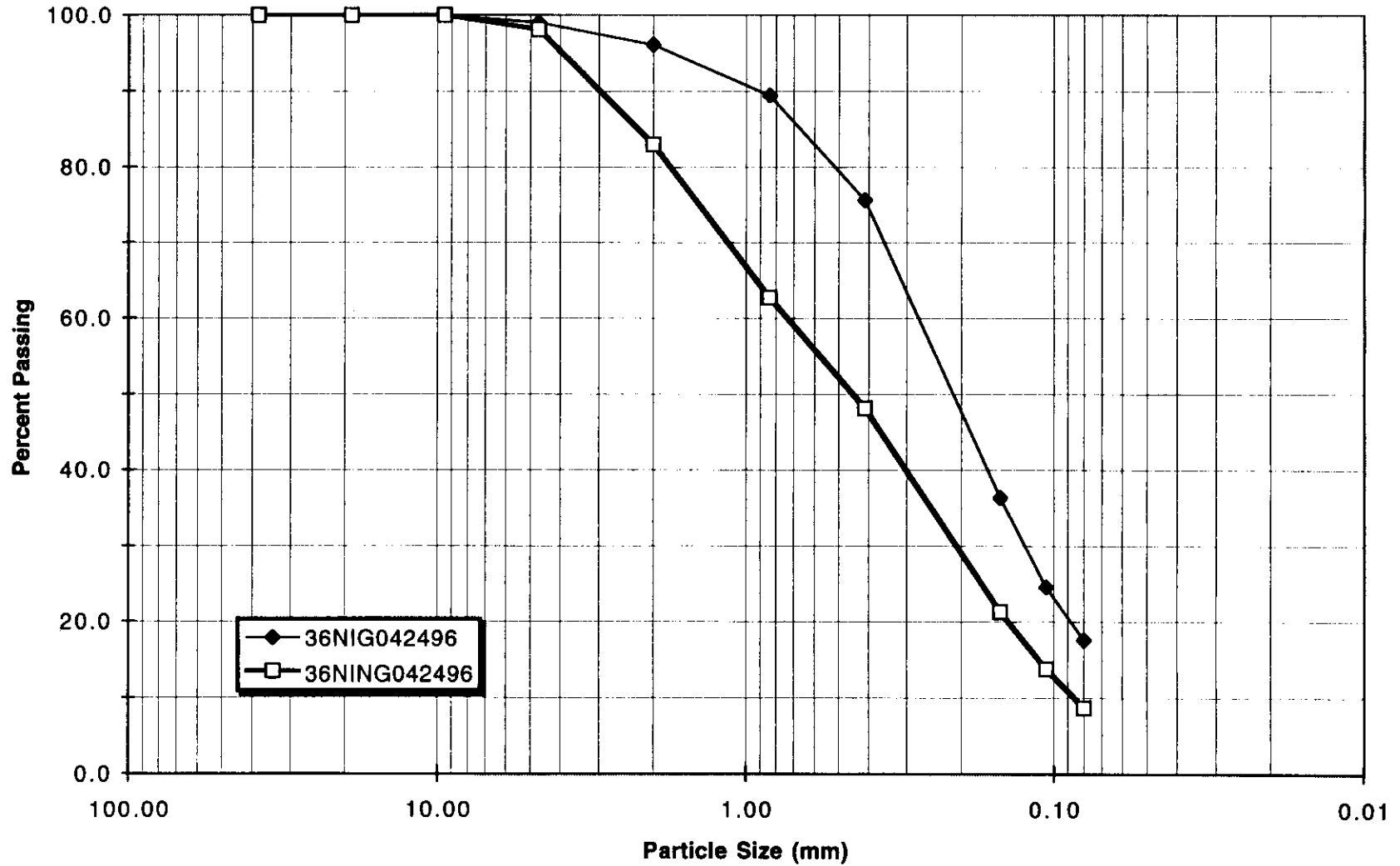
# GRAIN SIZE DISTRIBUTION TEST REPORT

## Street Sediment Loads Project



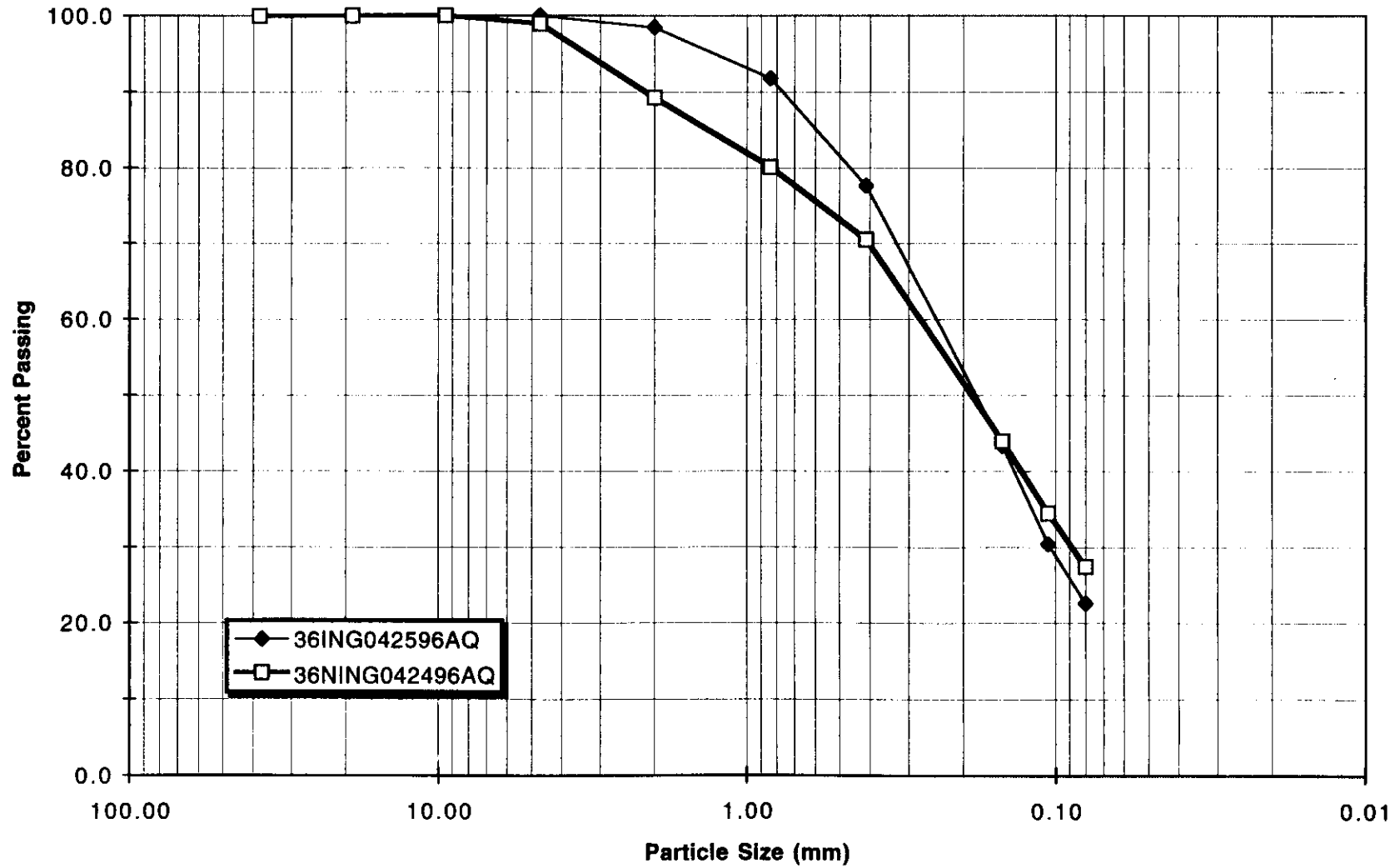
# GRAIN SIZE DISTRIBUTION TEST REPORT

## Street Sediment Loads Project



# GRAIN SIZE DISTRIBUTION TEST REPORT

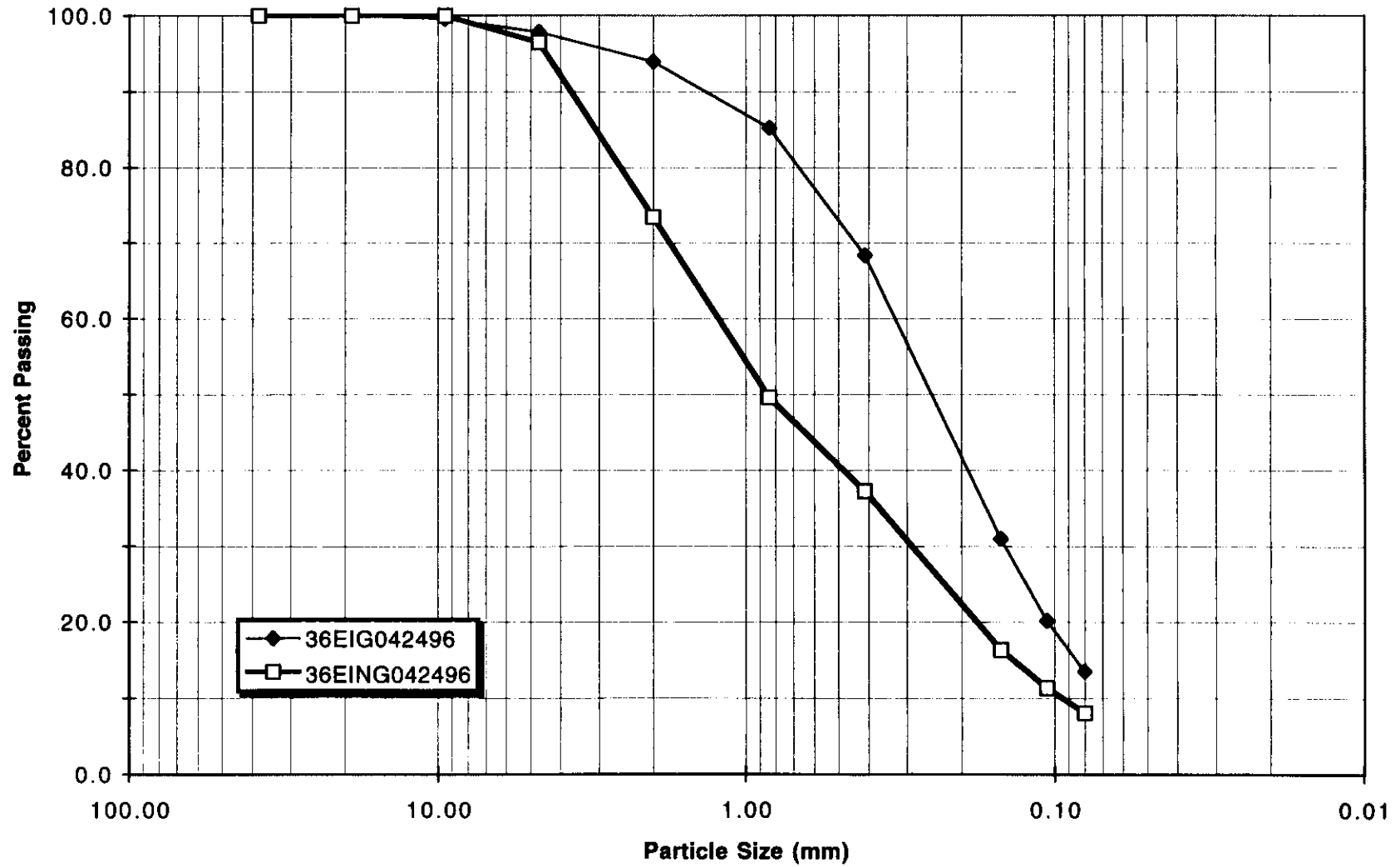
## Street Sediment Loads Project





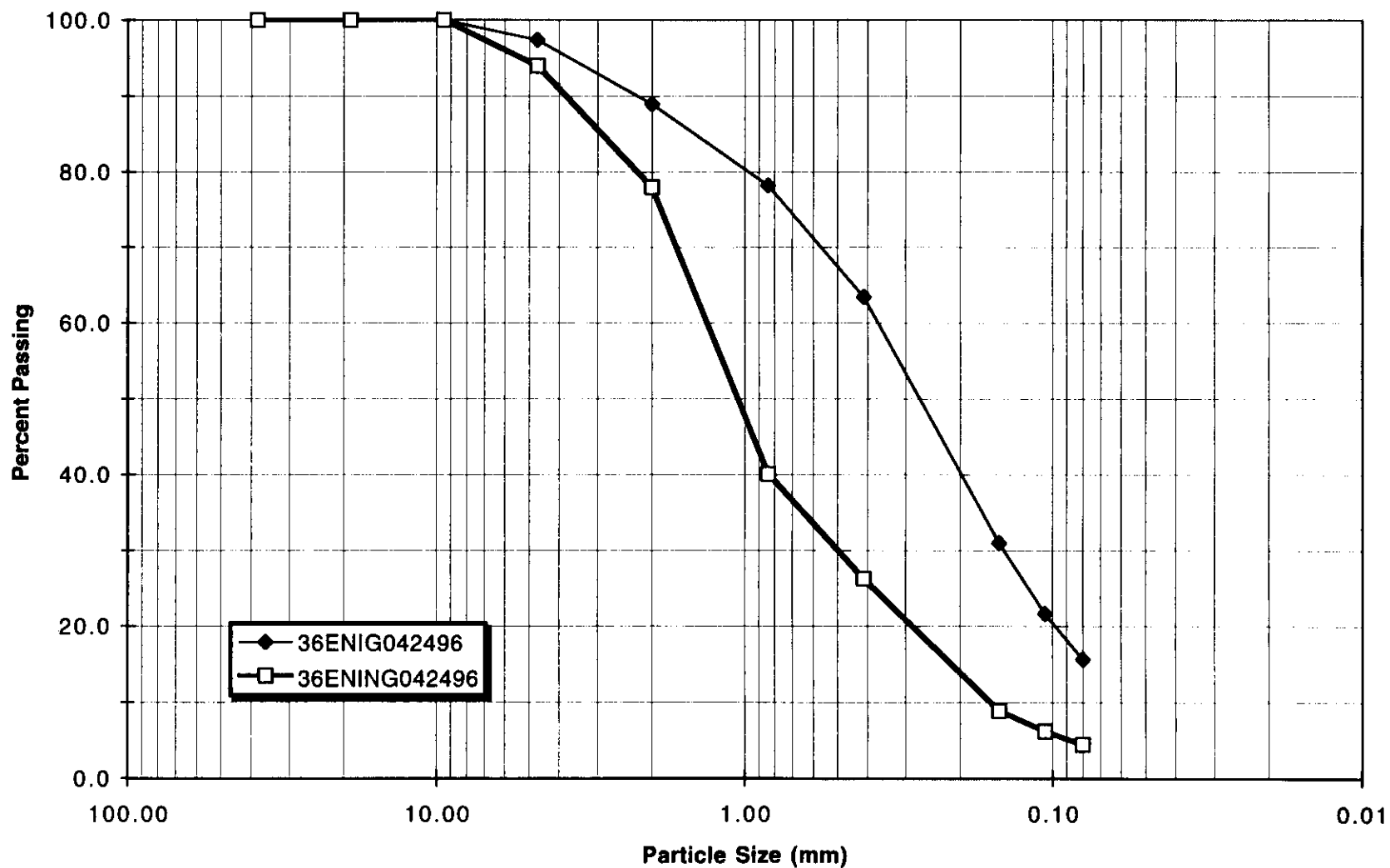
# GRAIN SIZE DISTRIBUTION TEST REPORT

## Street Sediment Loads Project



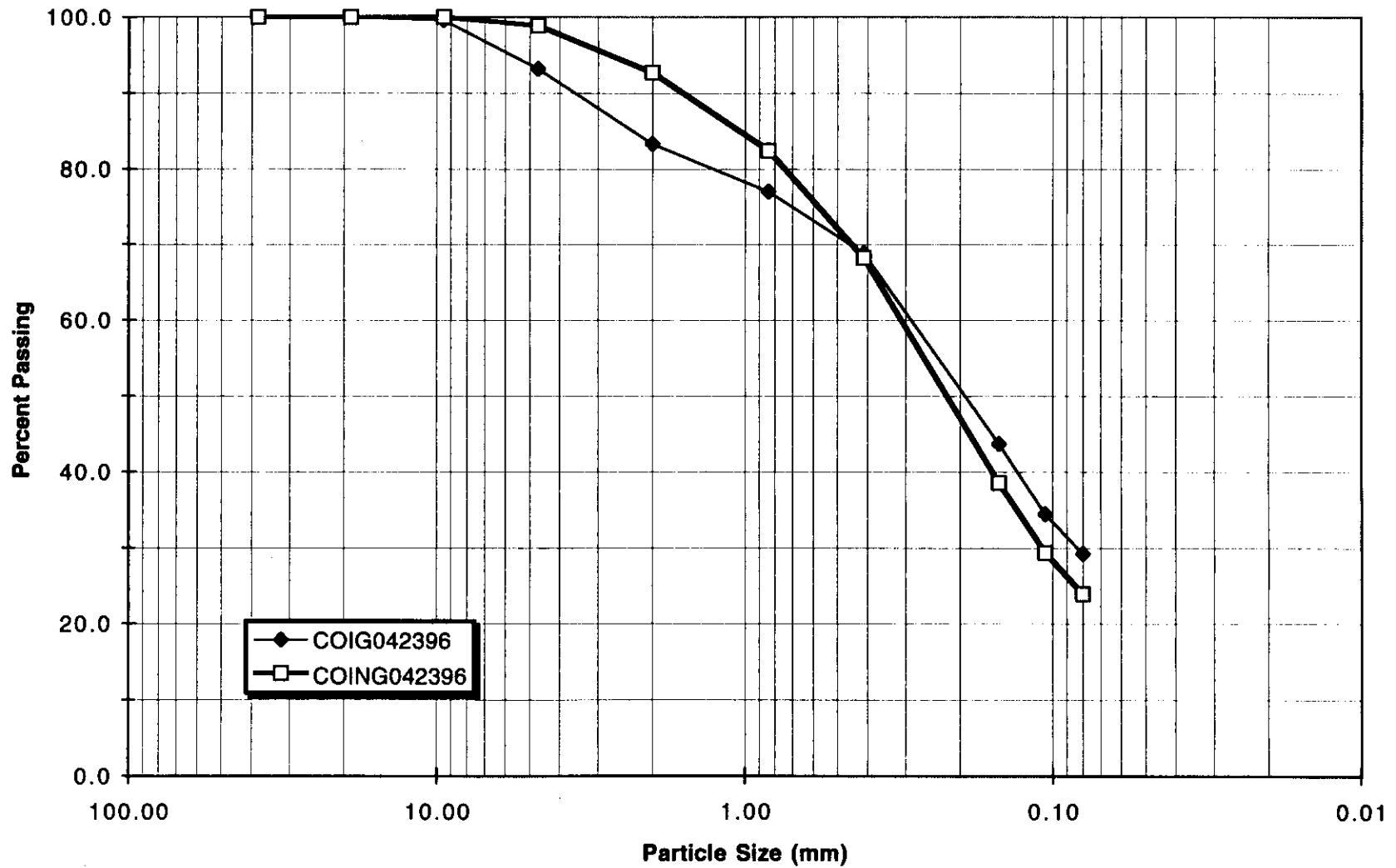
# GRAIN SIZE DISTRIBUTION TEST REPORT

## Street Sediment Loads Project



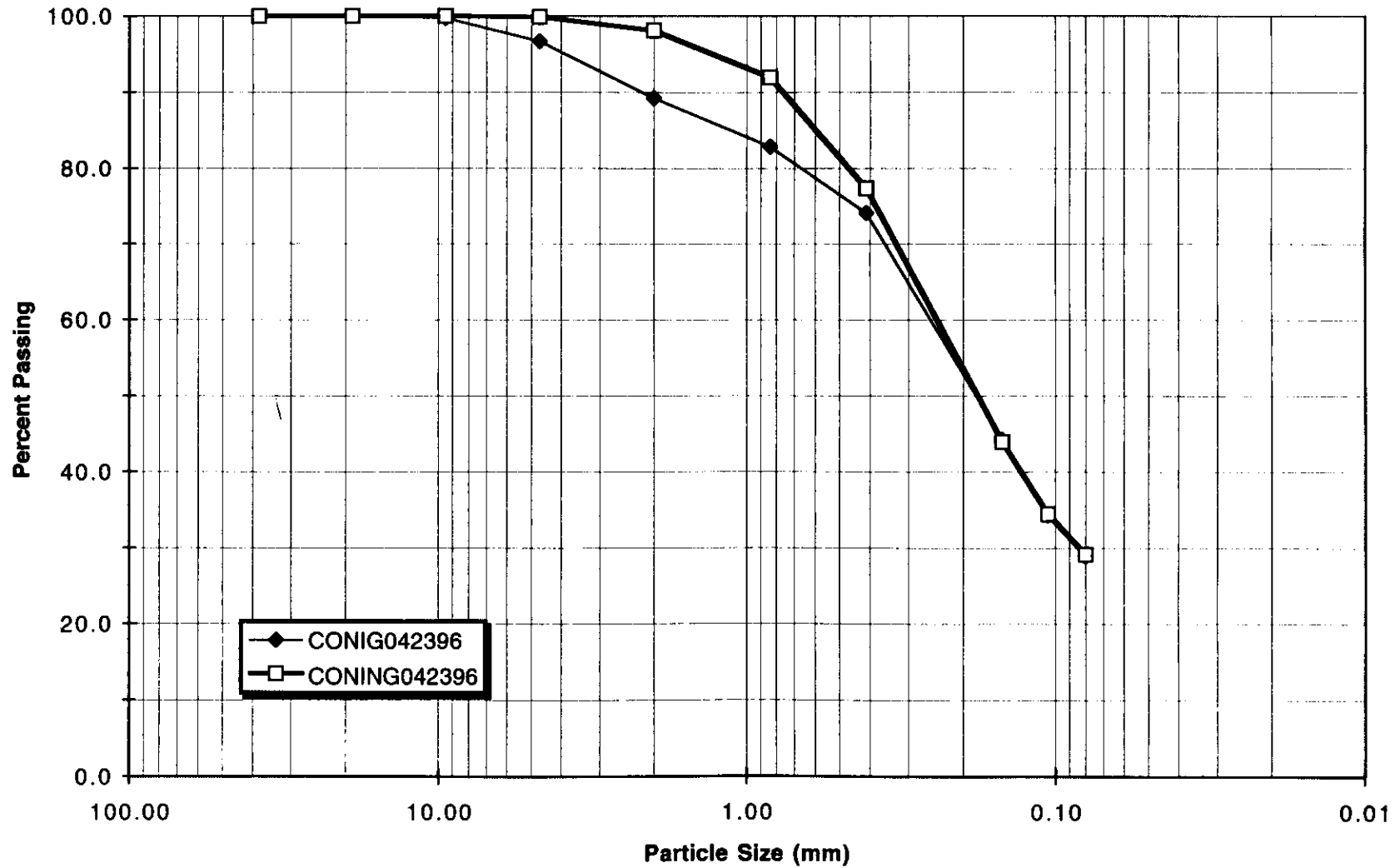
# GRAIN SIZE DISTRIBUTION TEST REPORT

## Street Sediment Loads Project



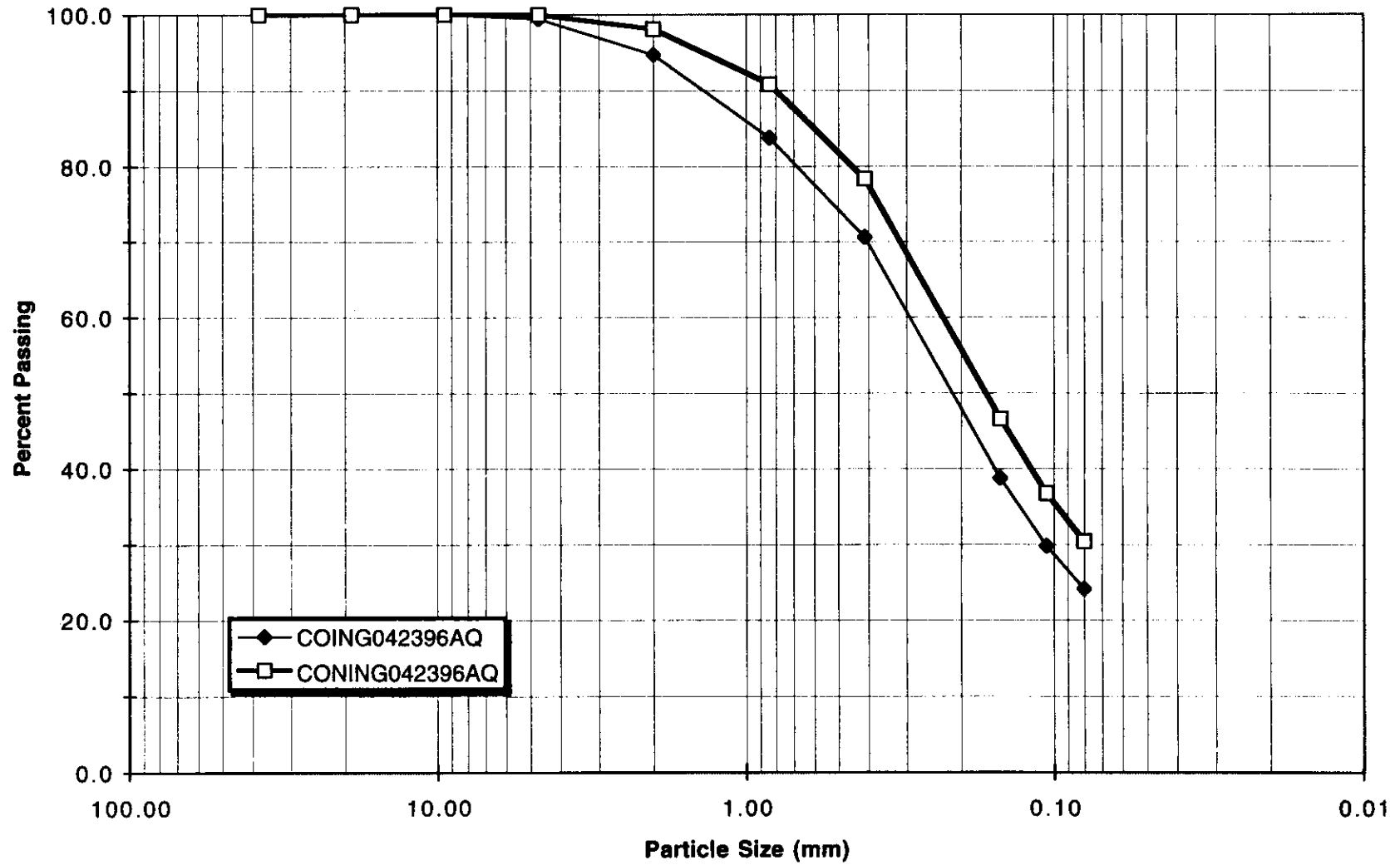
# GRAIN SIZE DISTRIBUTION TEST REPORT

## Street Sediment Loads Project



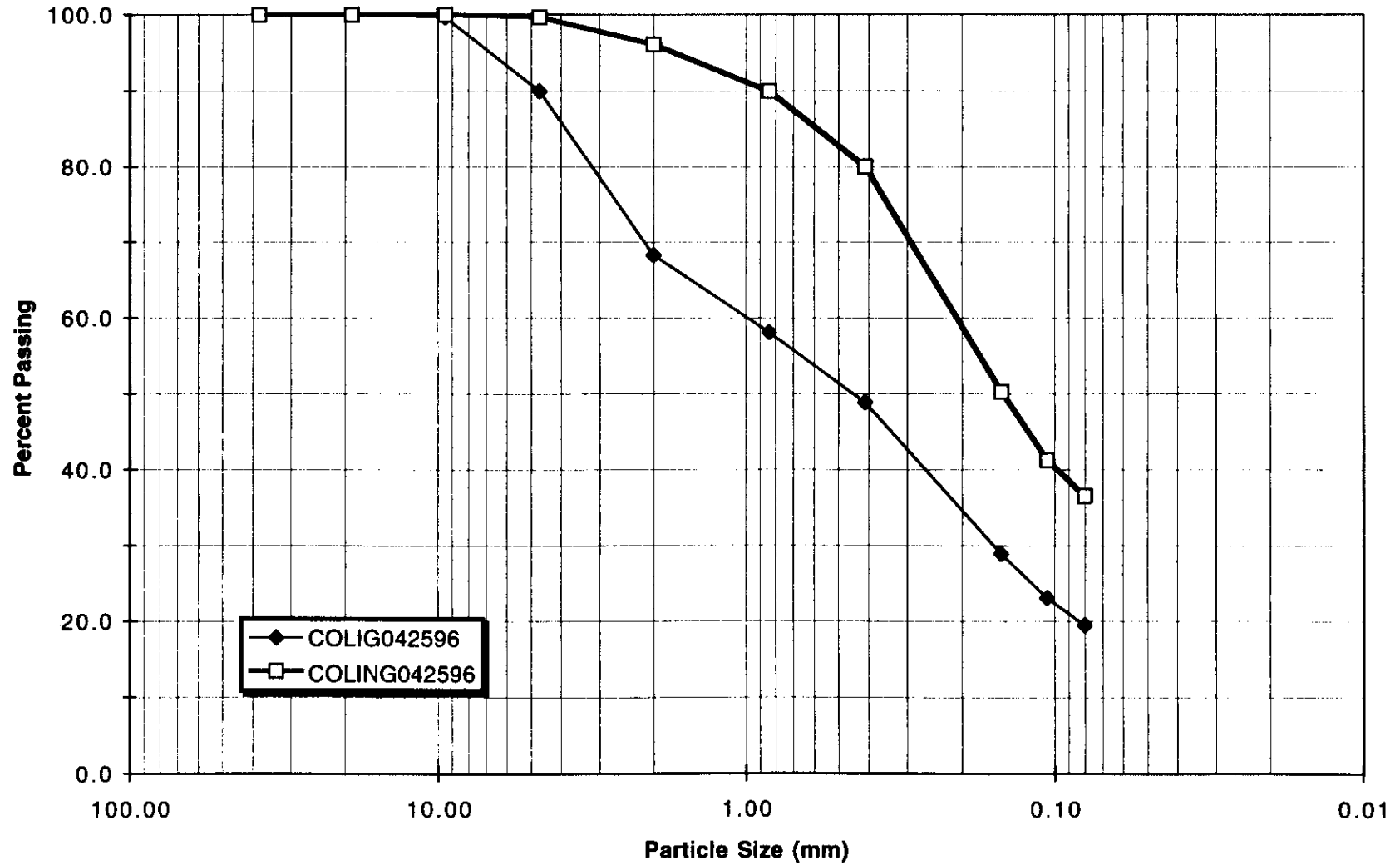
# GRAIN SIZE DISTRIBUTION TEST REPORT

## Street Sediment Loads Project



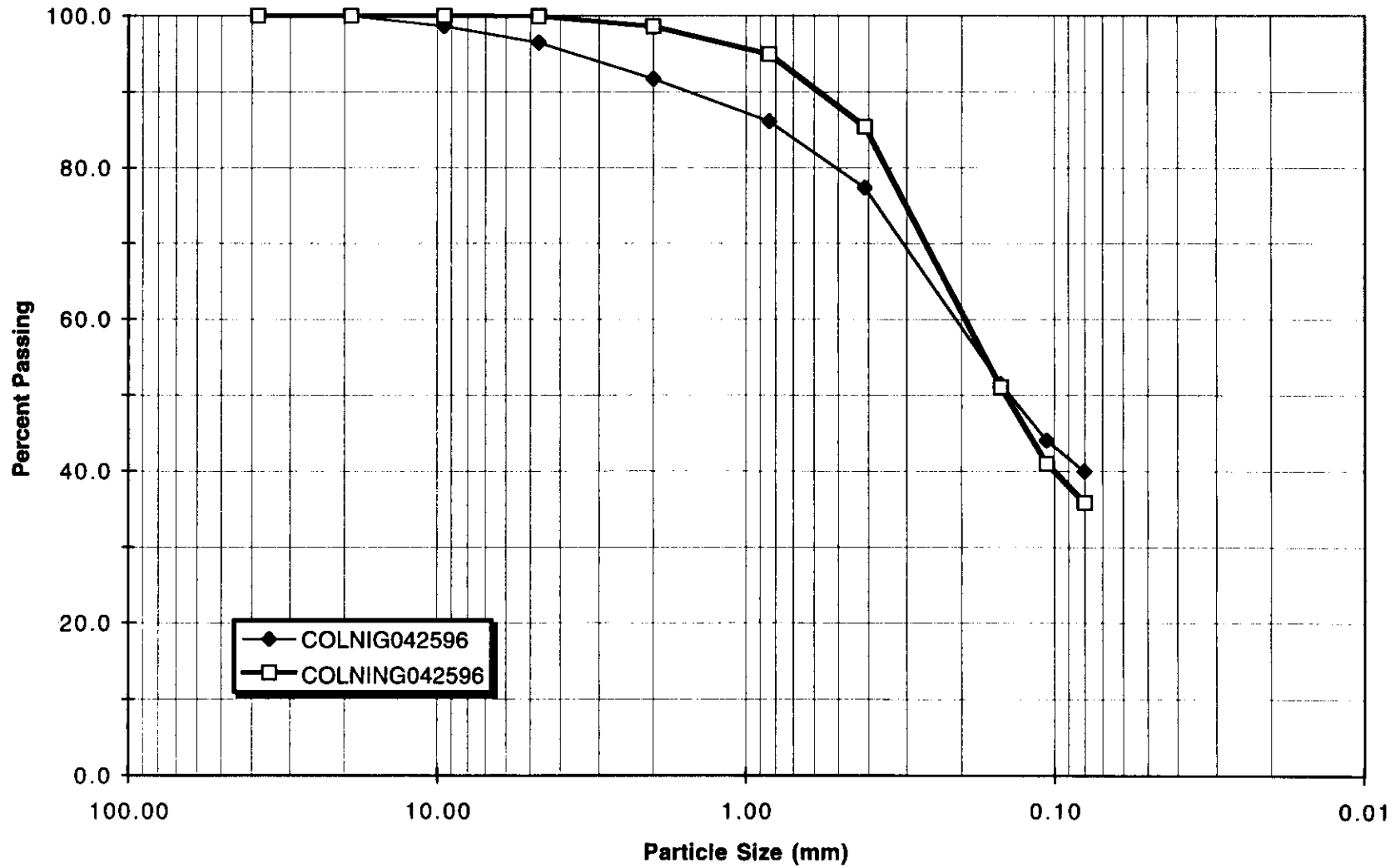
# GRAIN SIZE DISTRIBUTION TEST REPORT

## Street Sediment Loads Project



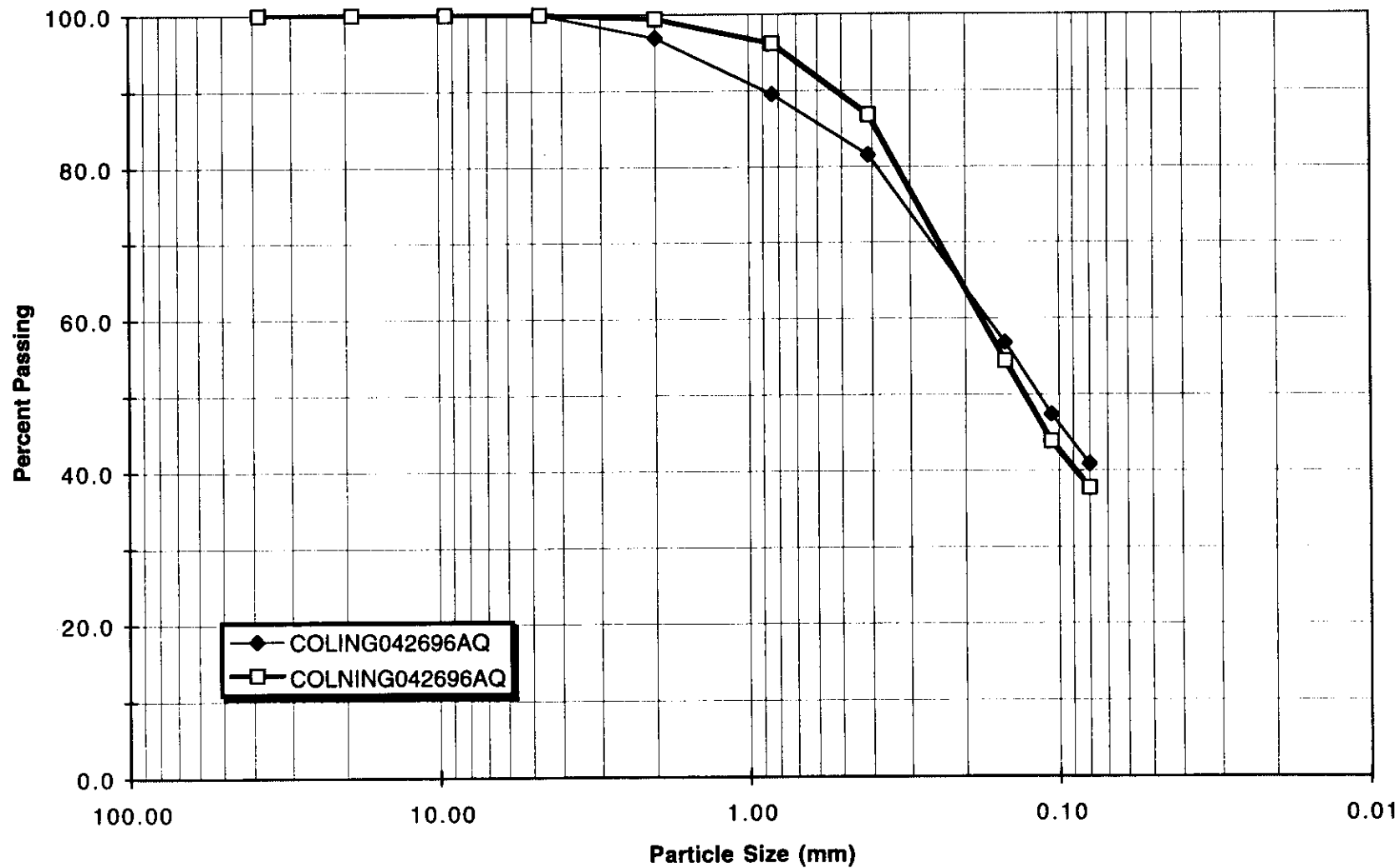
# GRAIN SIZE DISTRIBUTION TEST REPORT

## Street Sediment Loads Project



# GRAIN SIZE DISTRIBUTION TEST REPORT

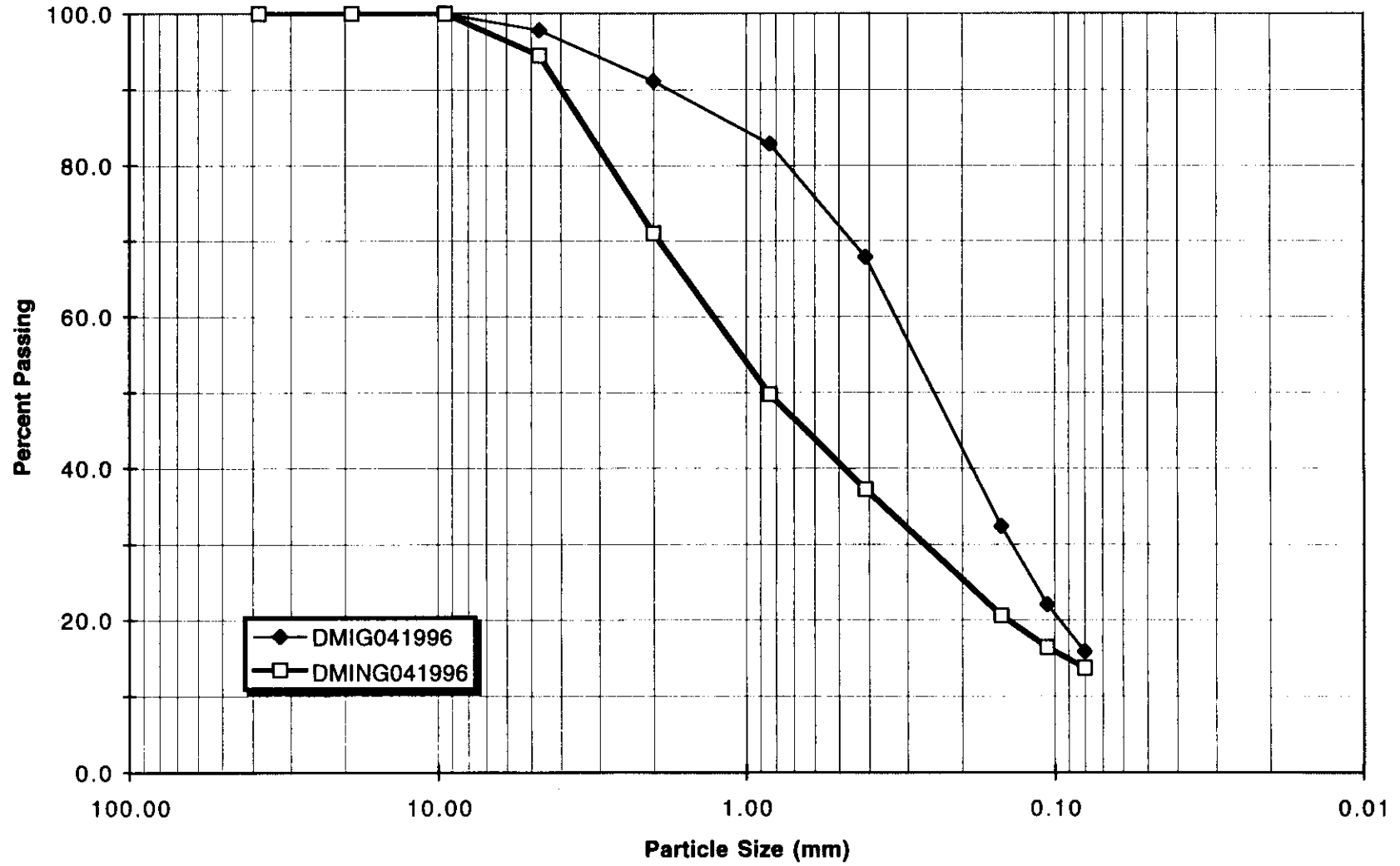
## Street Sediment Loads Project





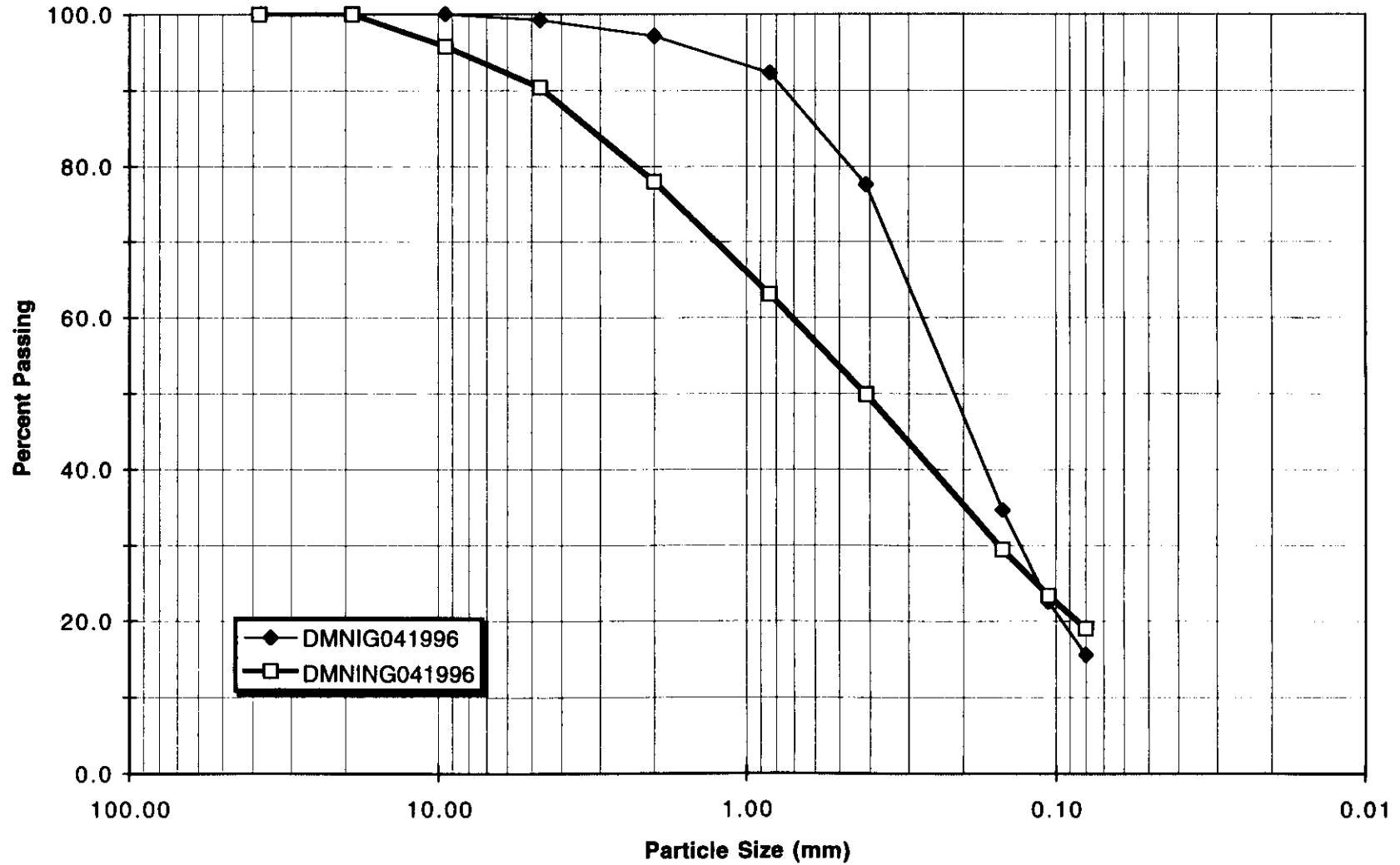
# GRAIN SIZE DISTRIBUTION TEST REPORT

## Street Sediment Loads Project



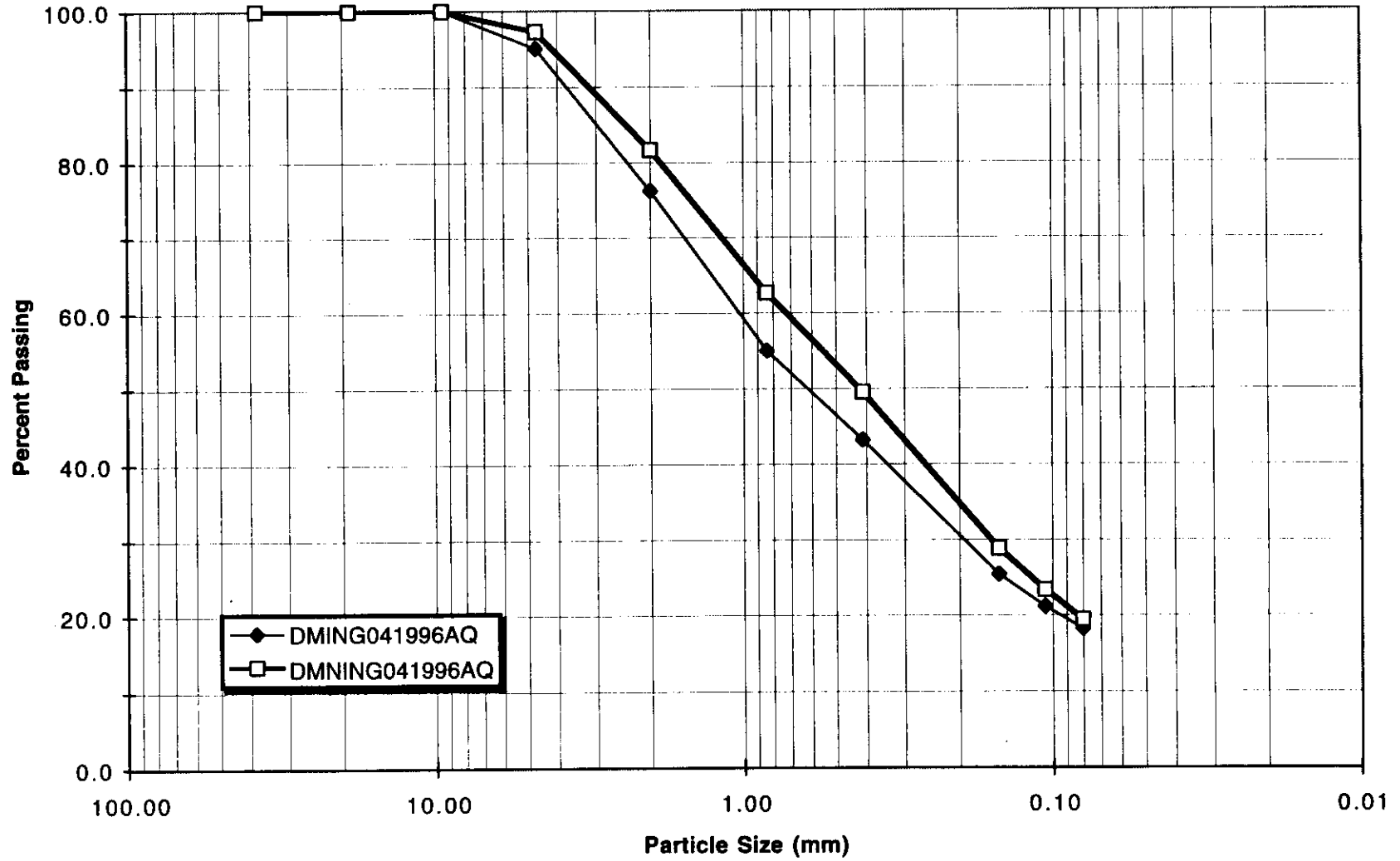
# GRAIN SIZE DISTRIBUTION TEST REPORT

## Street Sediment Loads Project



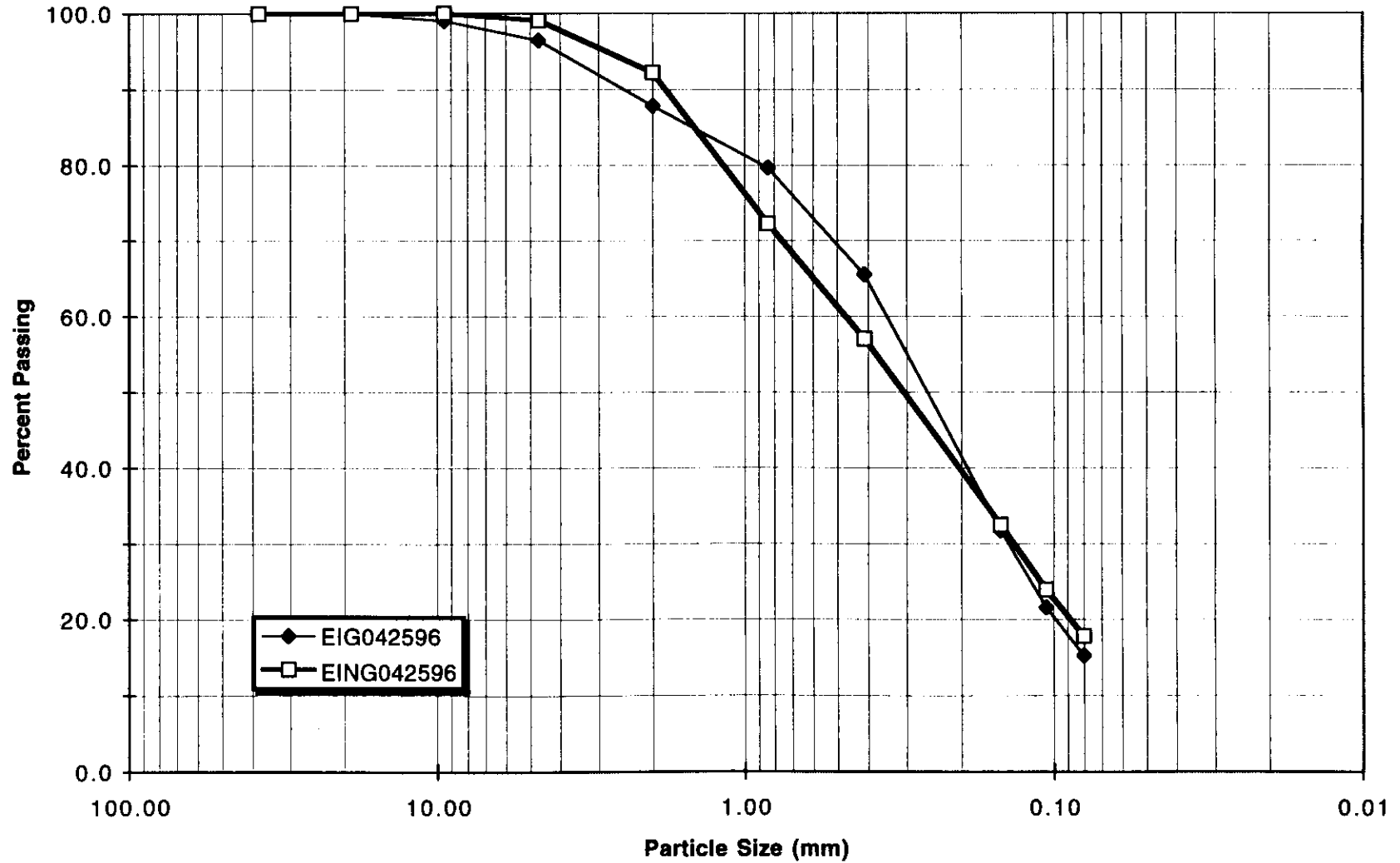
# GRAIN SIZE DISTRIBUTION TEST REPORT

## Street Sediment Loads Project



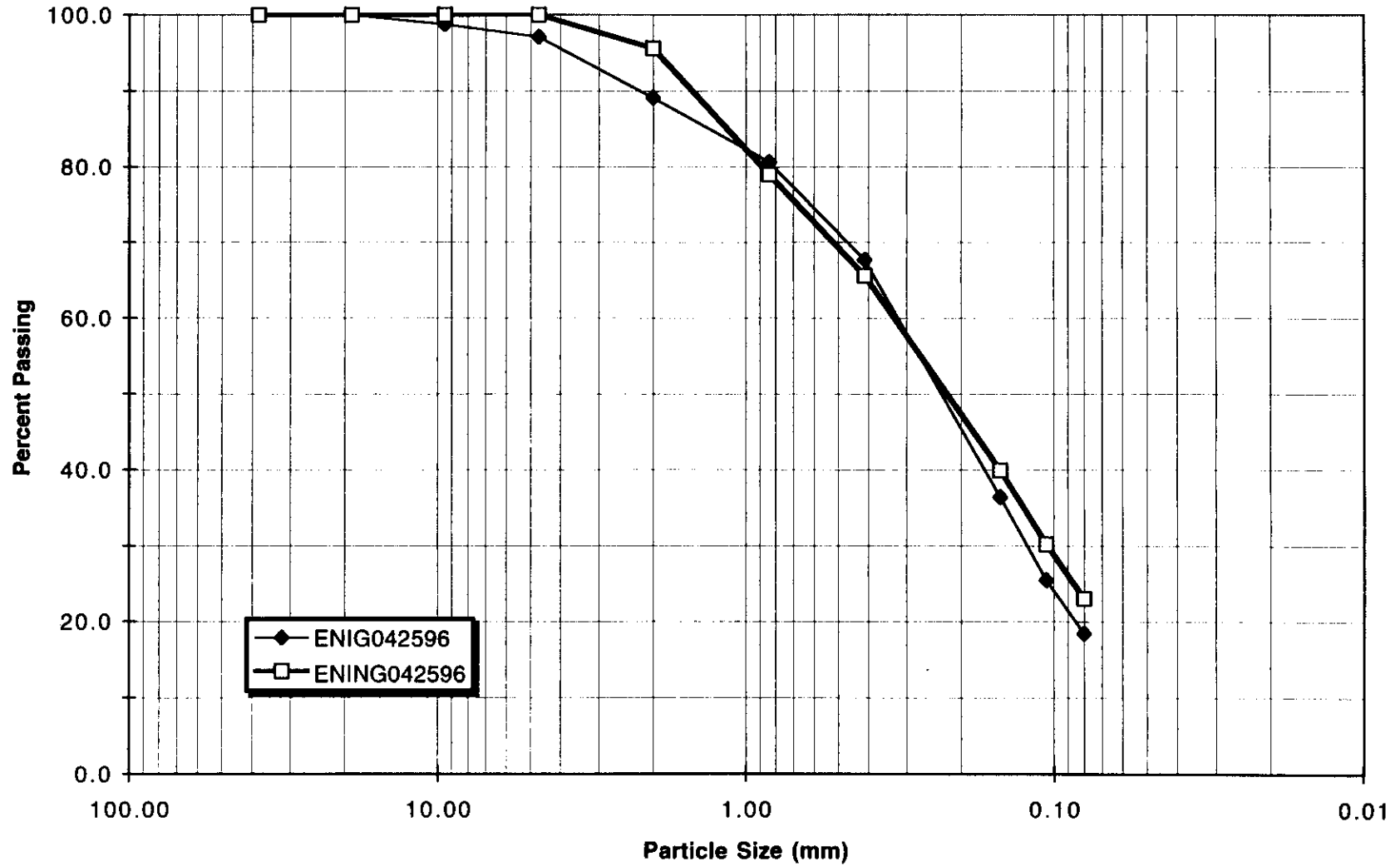
# GRAIN SIZE DISTRIBUTION TEST REPORT

## Street Sediment Loads Project



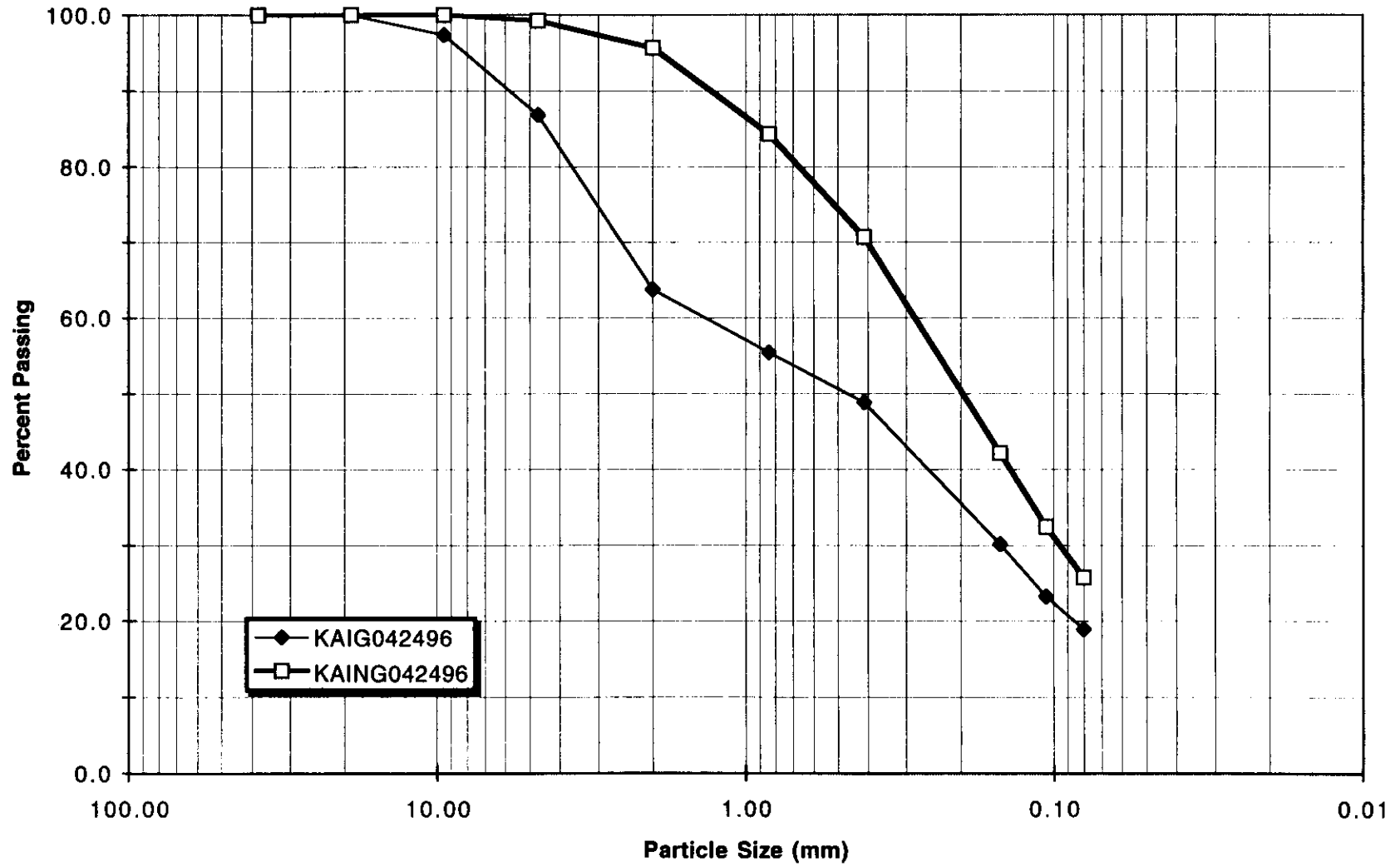
# GRAIN SIZE DISTRIBUTION TEST REPORT

## Street Sediment Loads Project



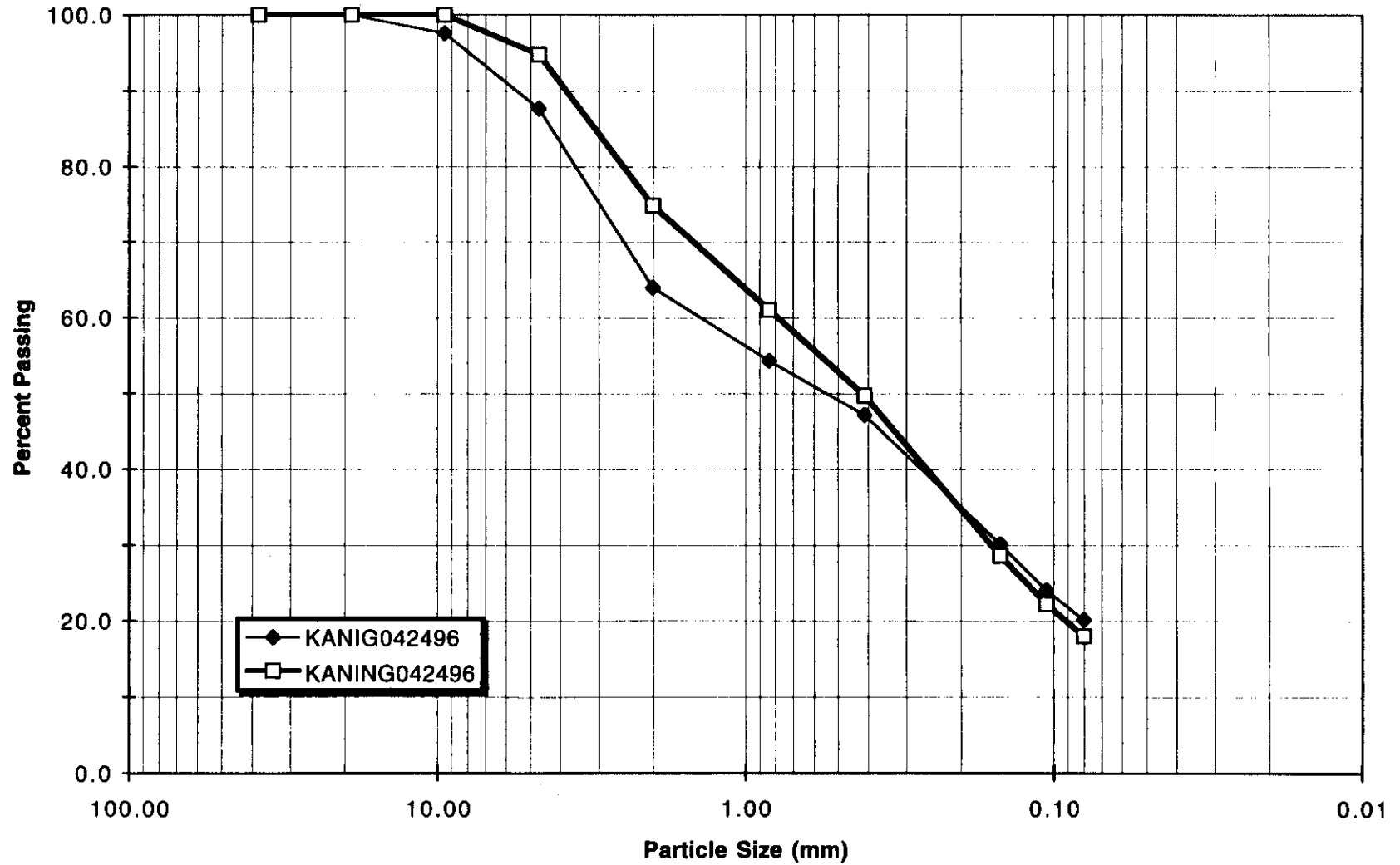
# GRAIN SIZE DISTRIBUTION TEST REPORT

## Street Sediment Loads Project



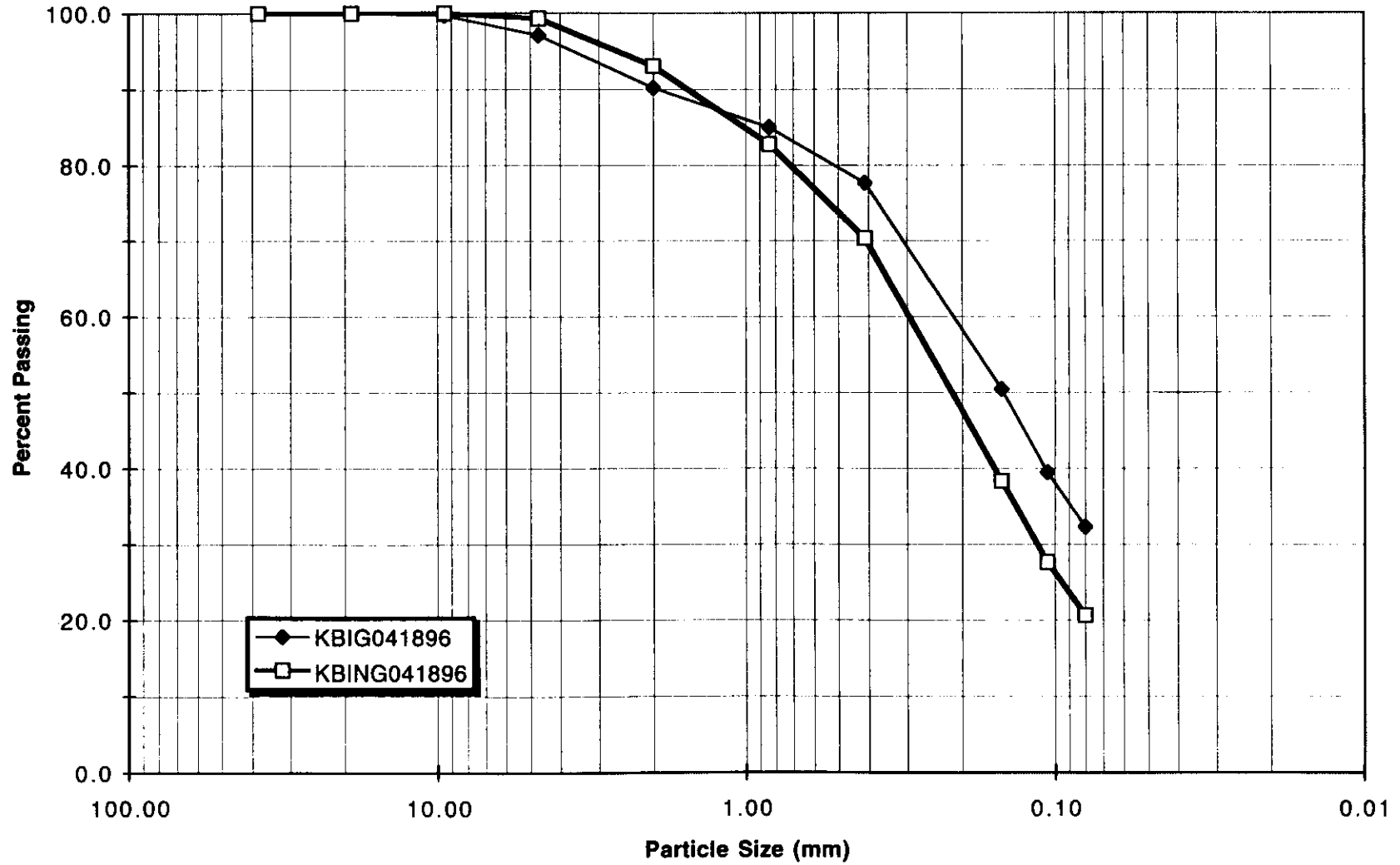
# GRAIN SIZE DISTRIBUTION TEST REPORT

## Street Sediment Loads Project



# GRAIN SIZE DISTRIBUTION TEST REPORT

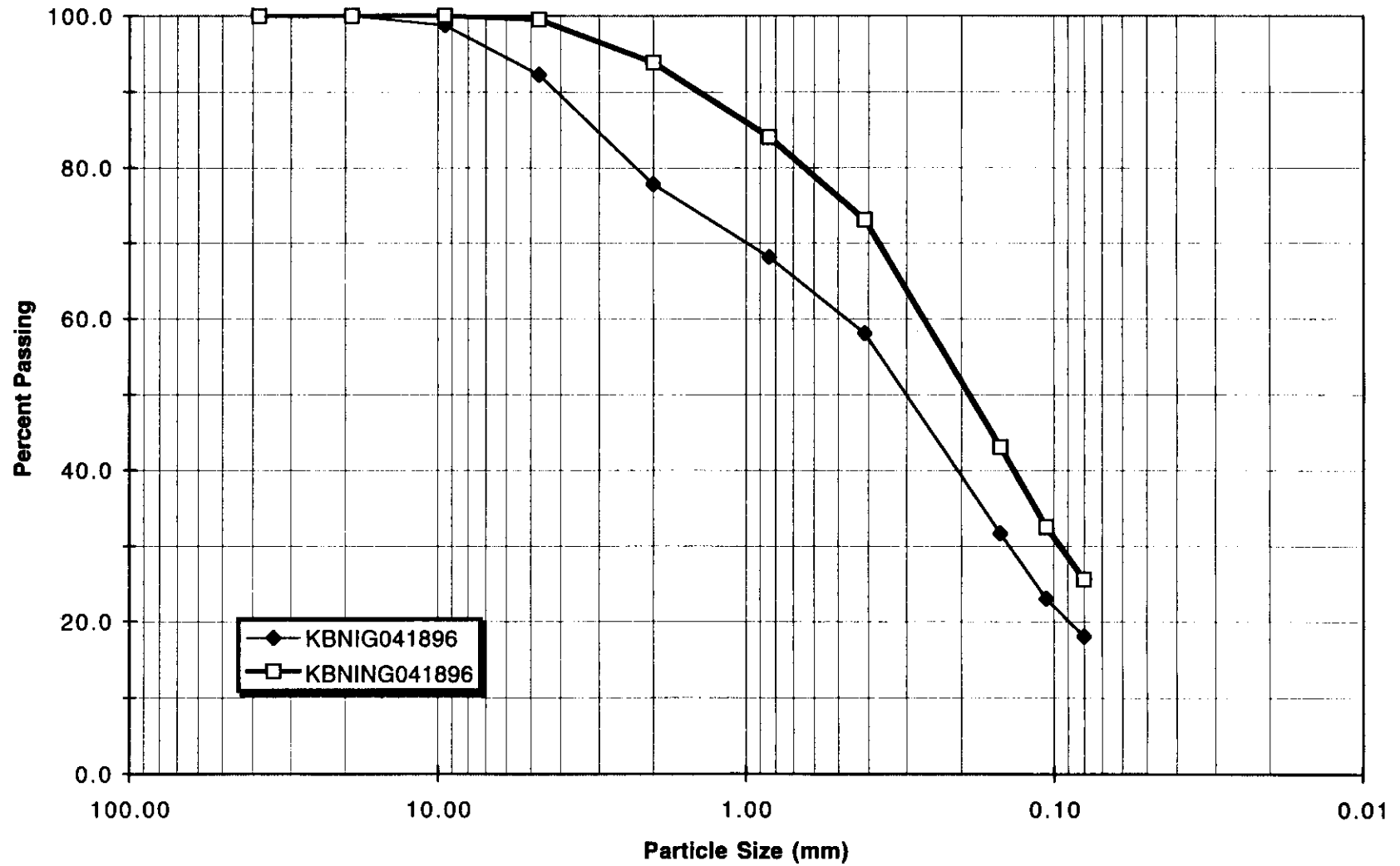
## Street Sediment Loads Project





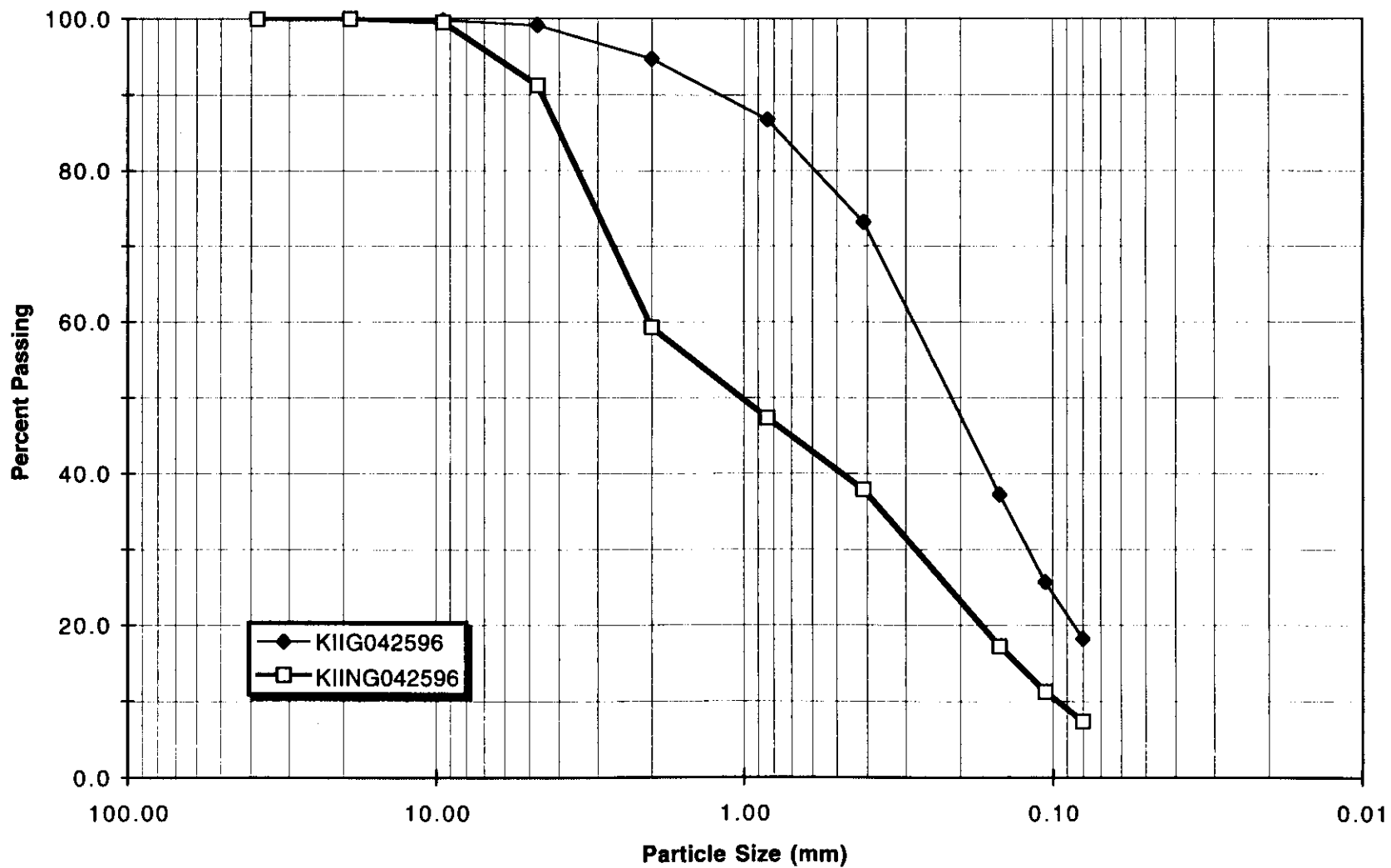
# GRAIN SIZE DISTRIBUTION TEST REPORT

## Street Sediment Loads Project



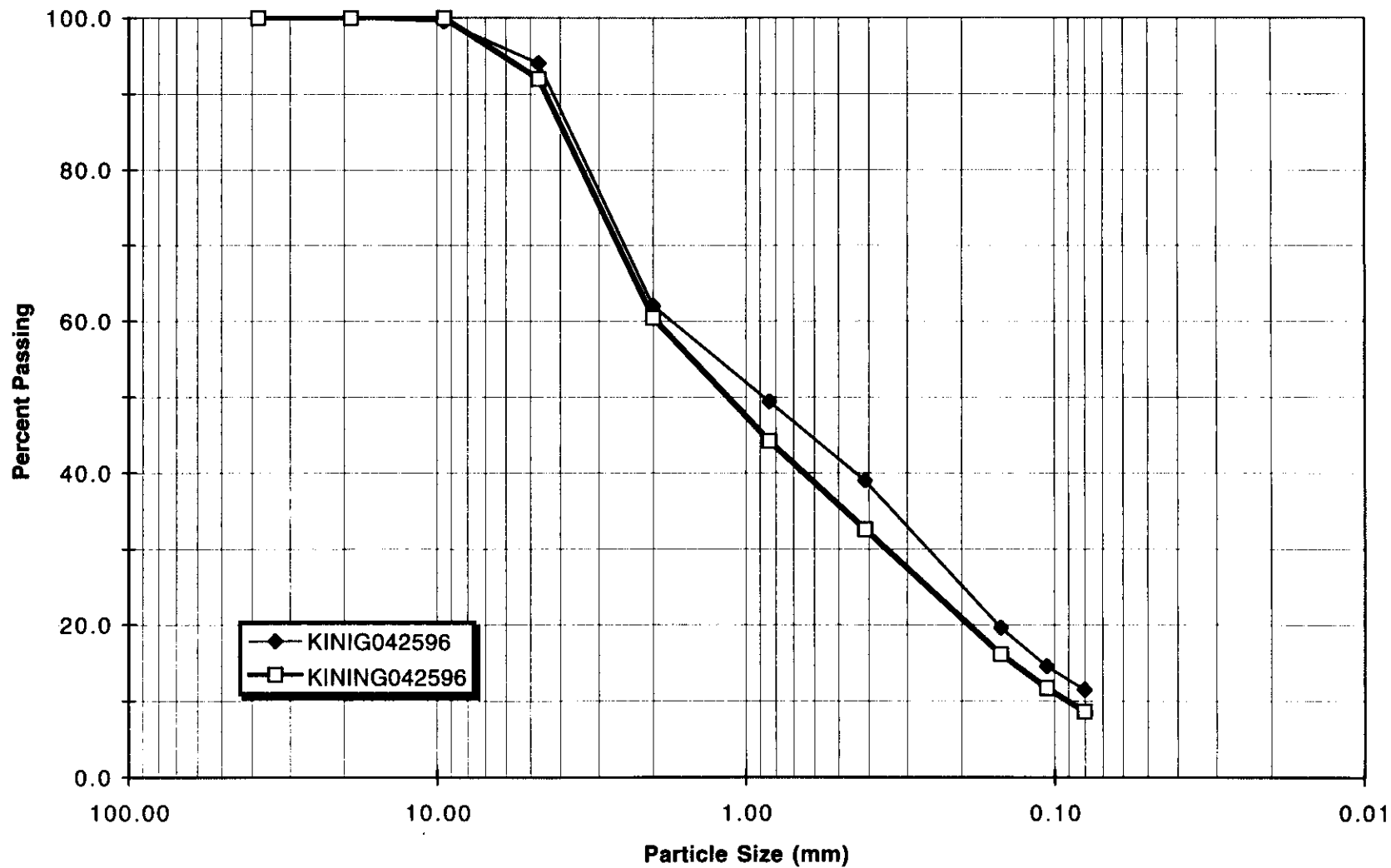
# GRAIN SIZE DISTRIBUTION TEST REPORT

## Street Sediment Loads Project



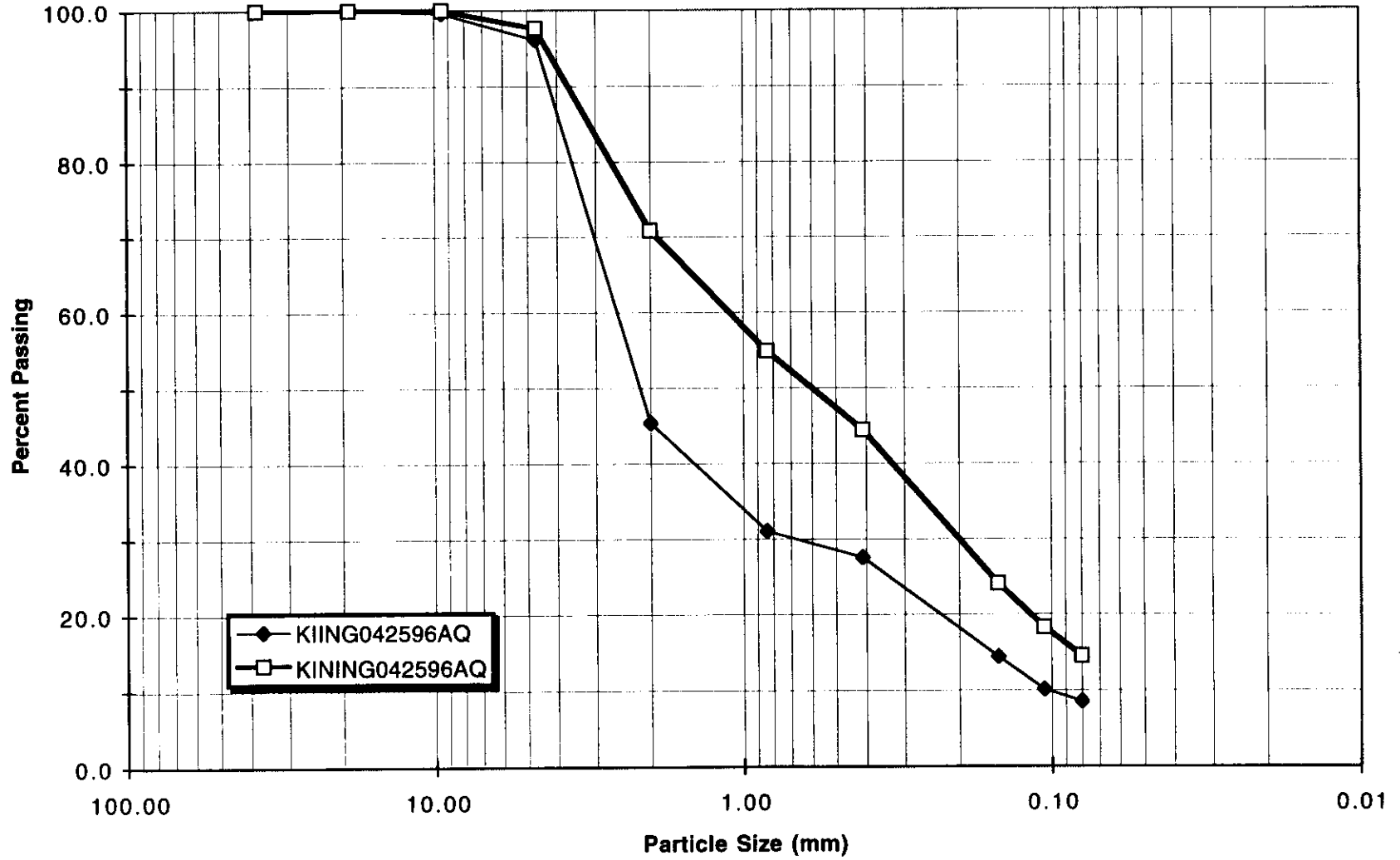
# GRAIN SIZE DISTRIBUTION TEST REPORT

## Street Sediment Loads Project



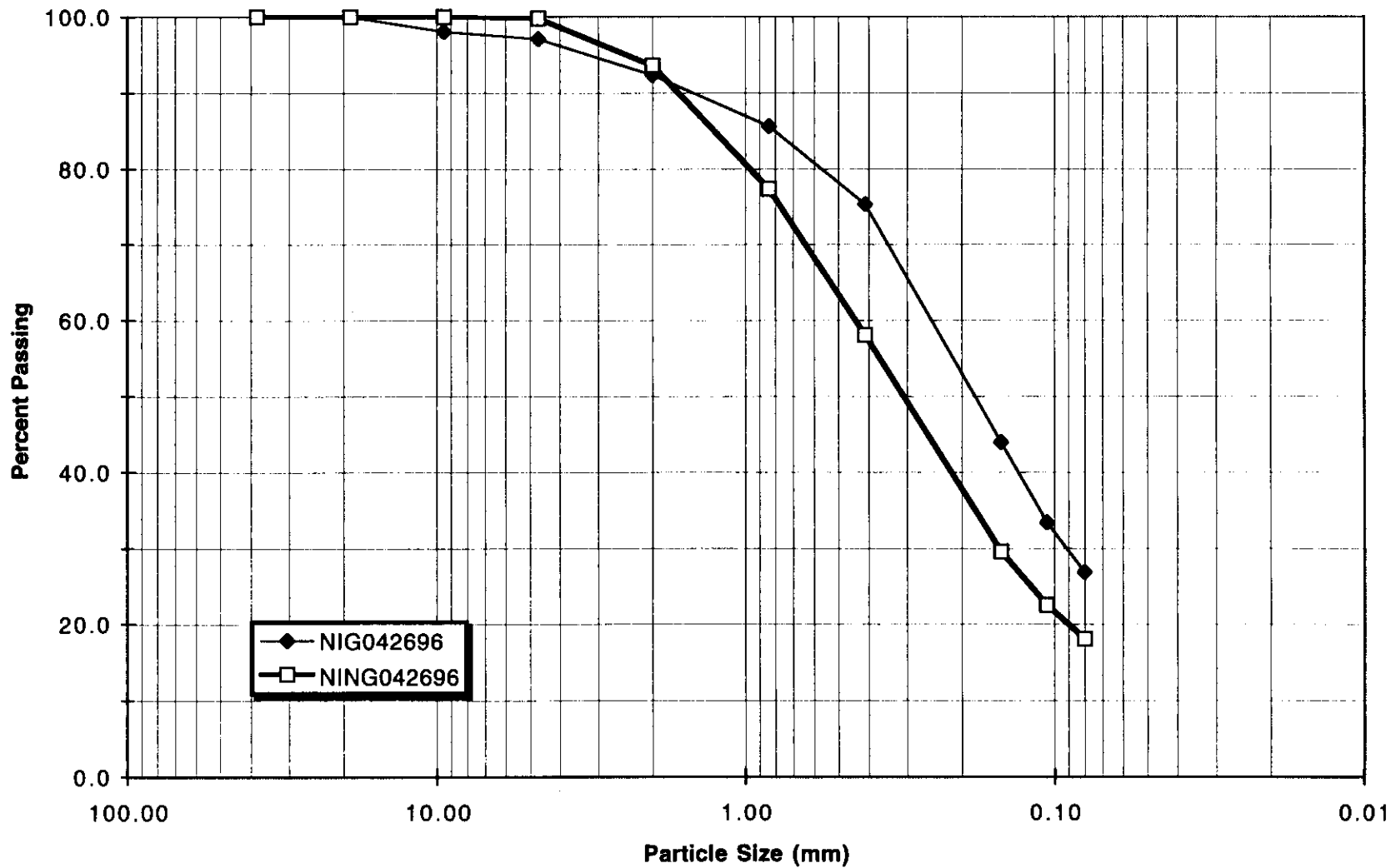
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## Street Sediment Loads Project



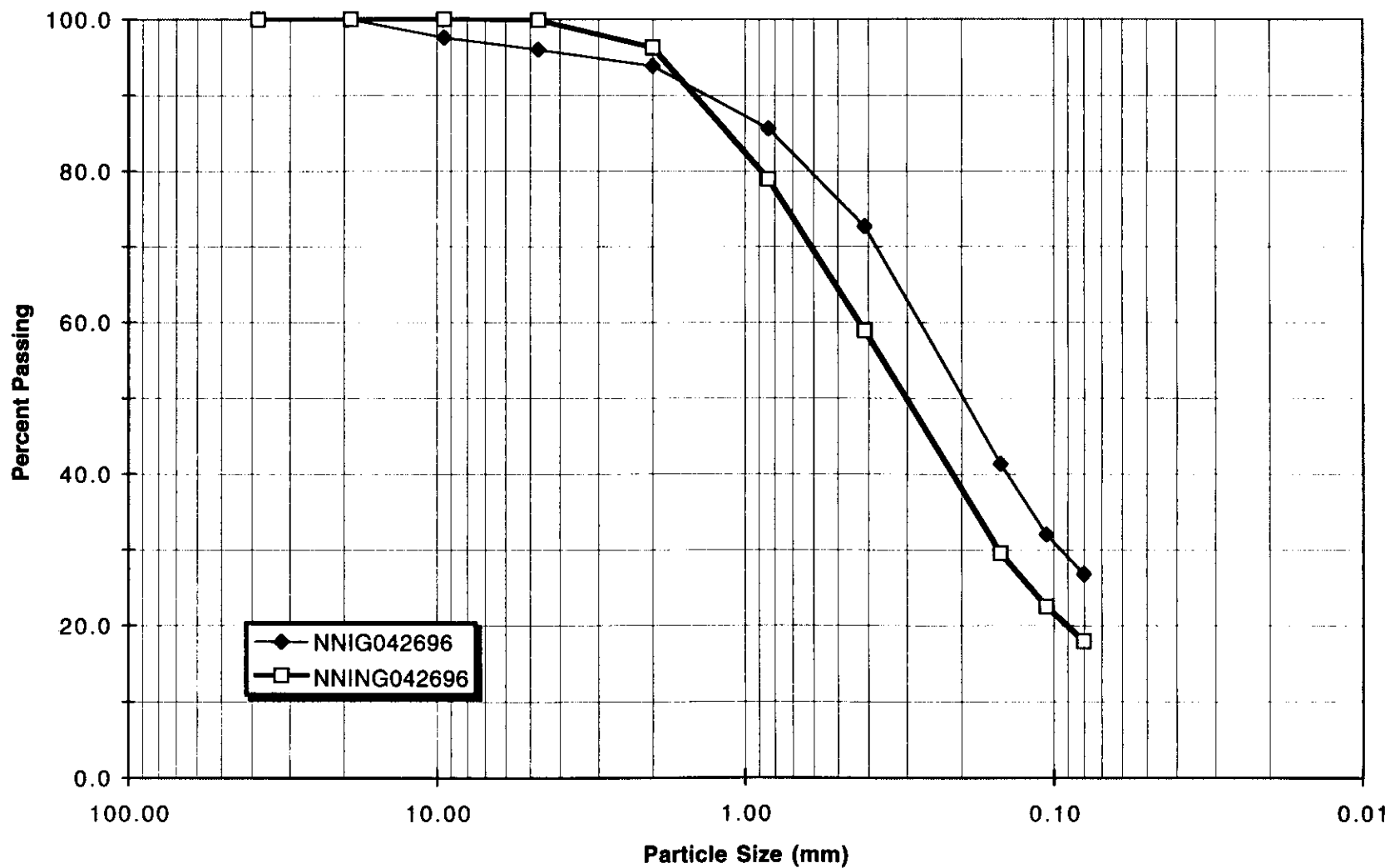
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## Street Sediment Loads Project



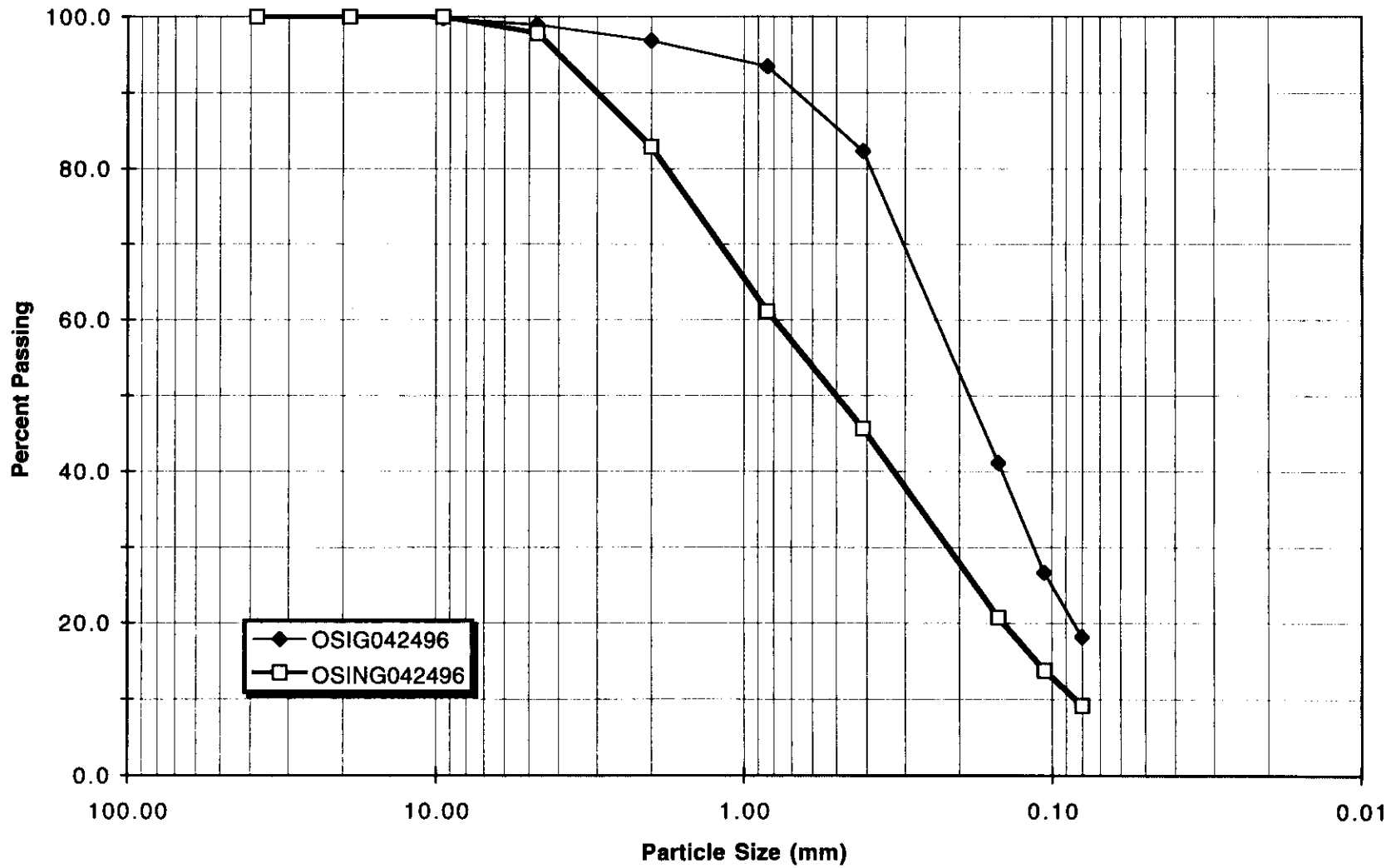
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## Street Sediment Loads Project



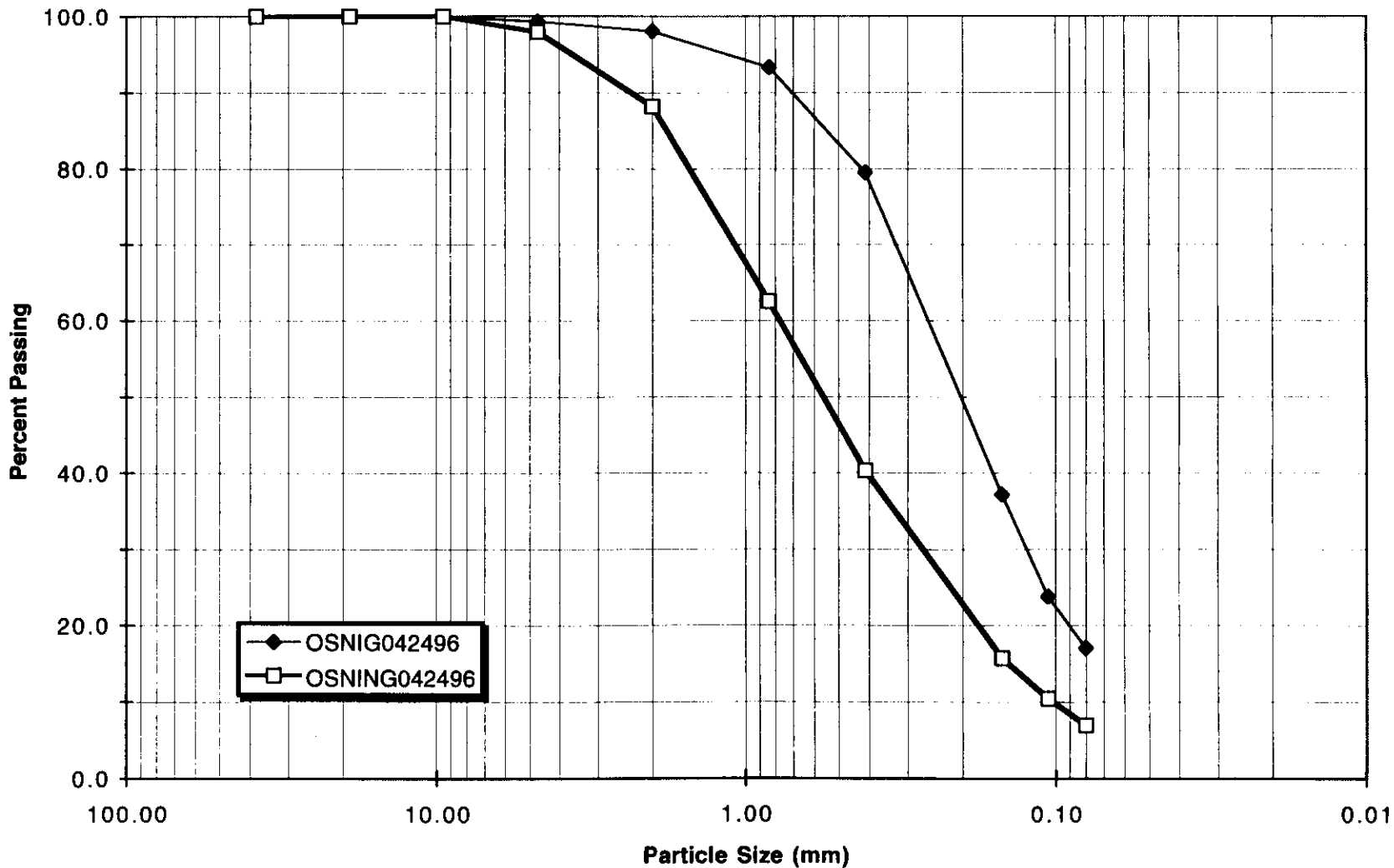
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## Street Sediment Loads Project



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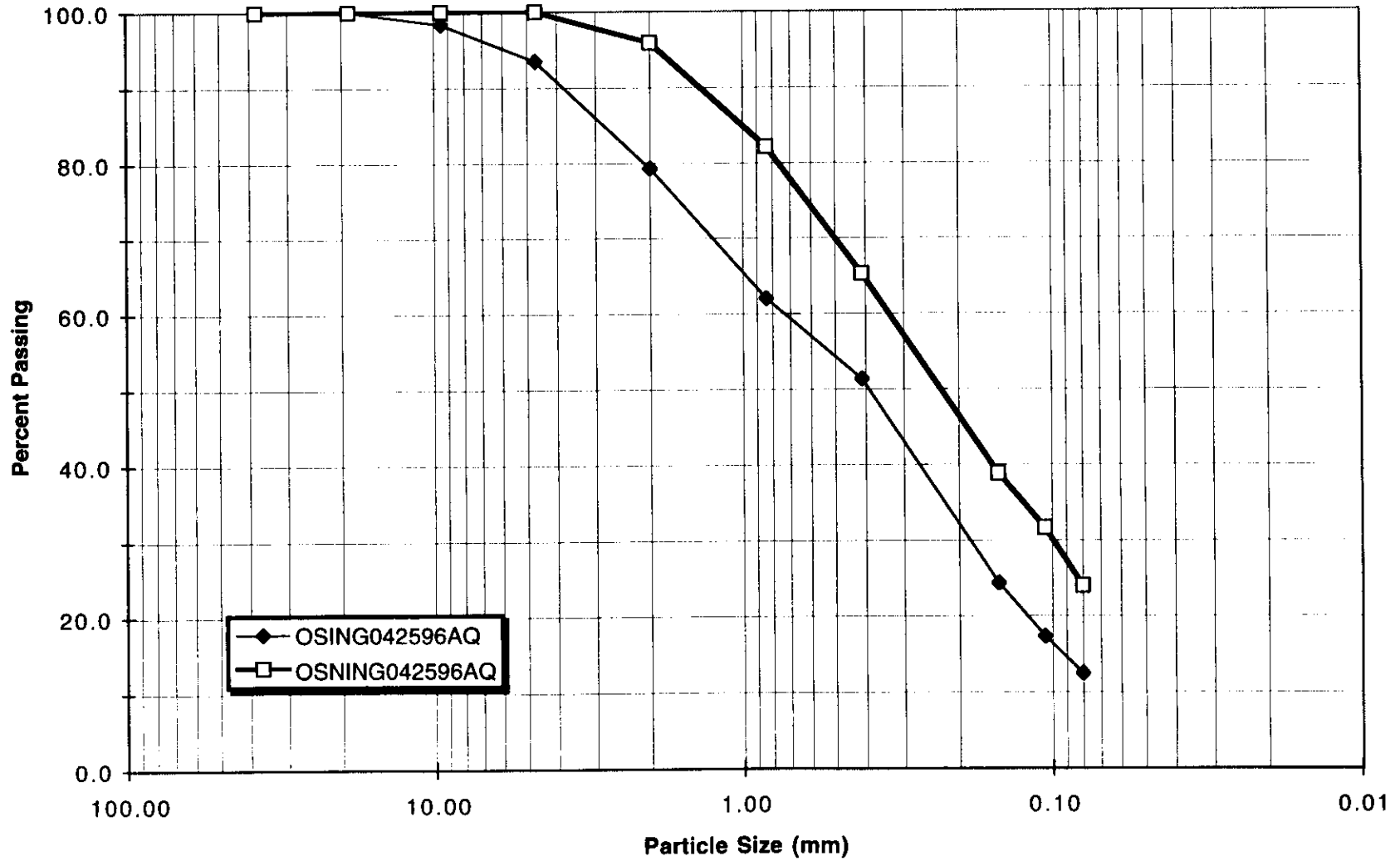
## Street Sediment Loads Project





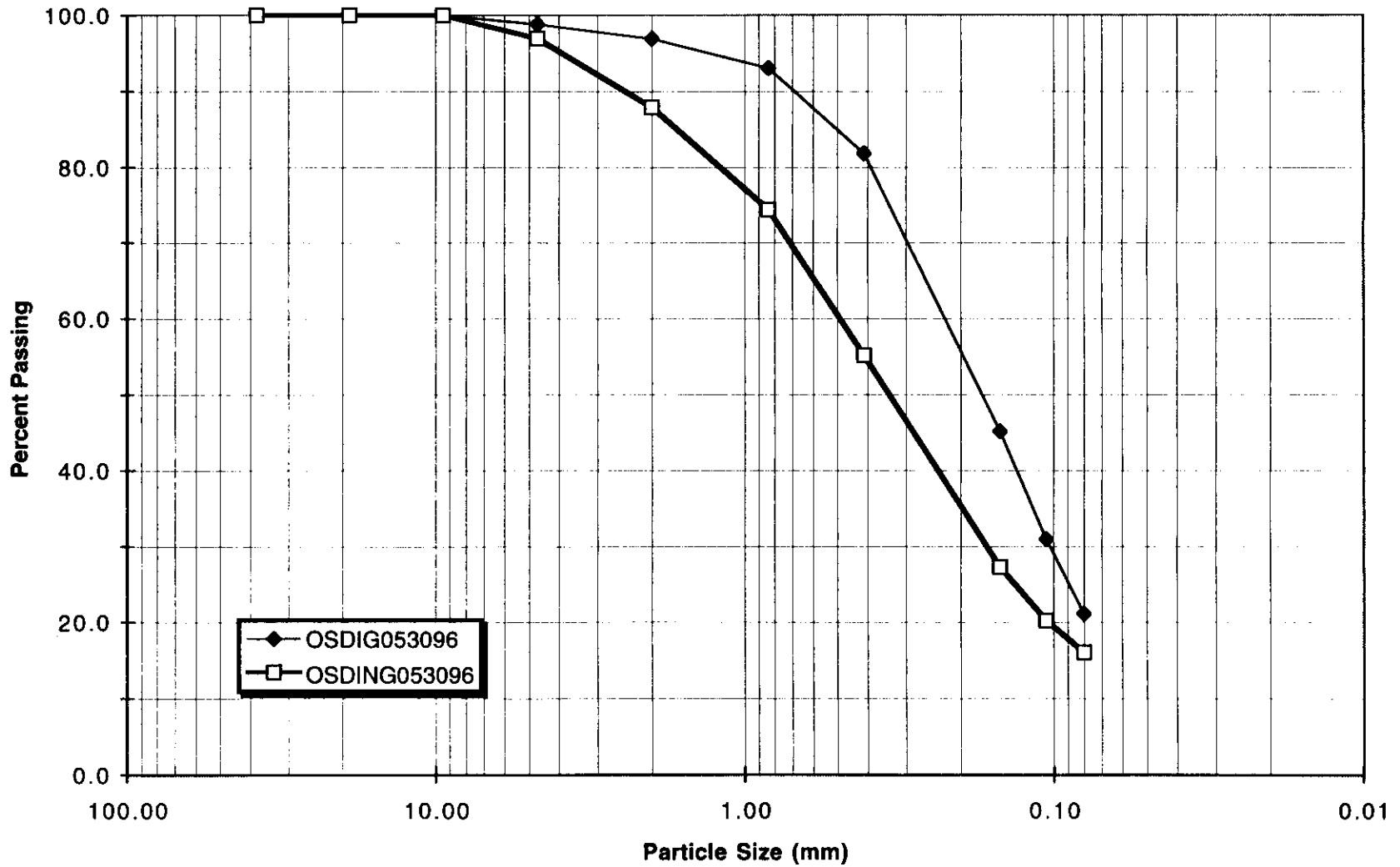
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## Street Sediment Loads Project



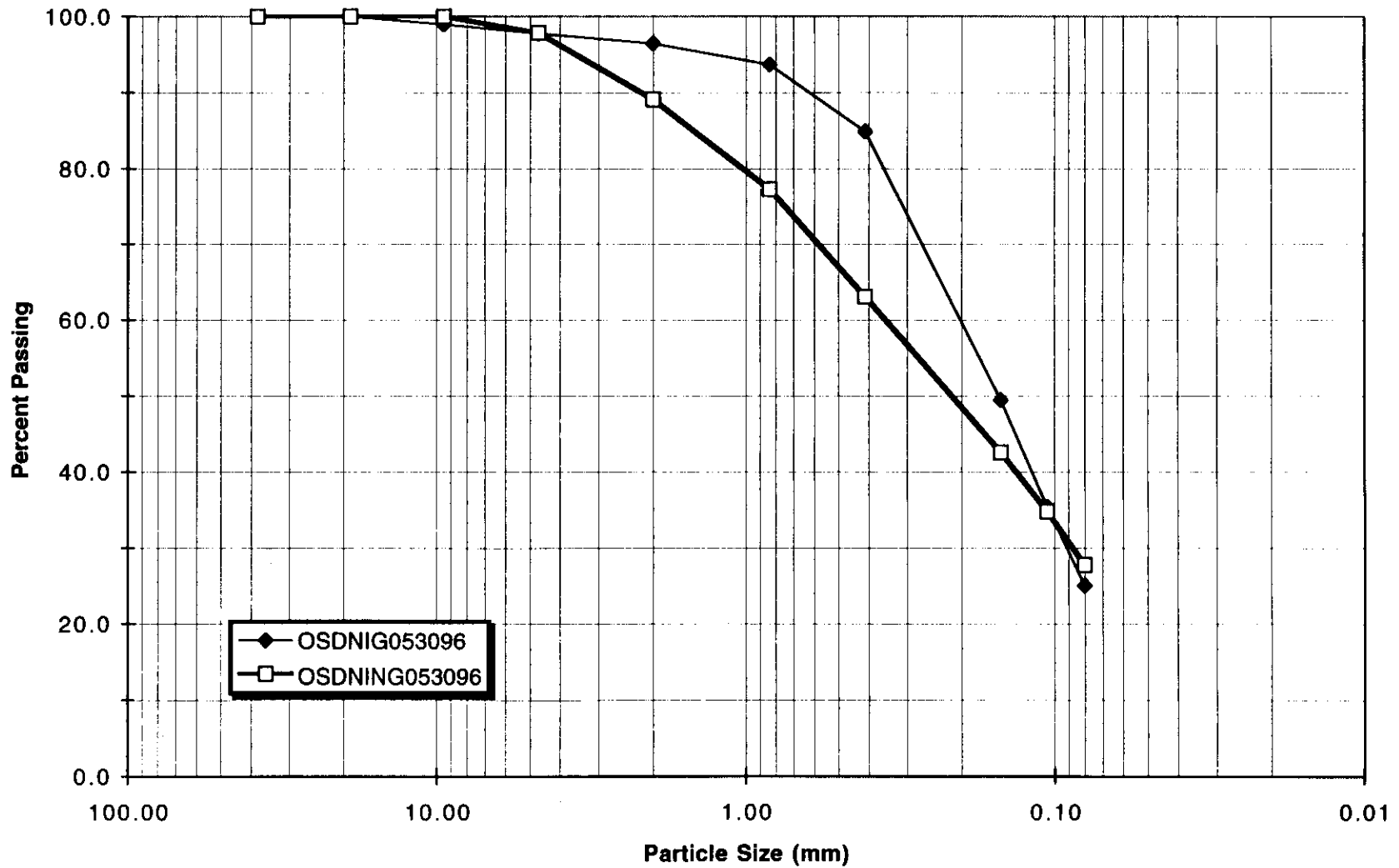
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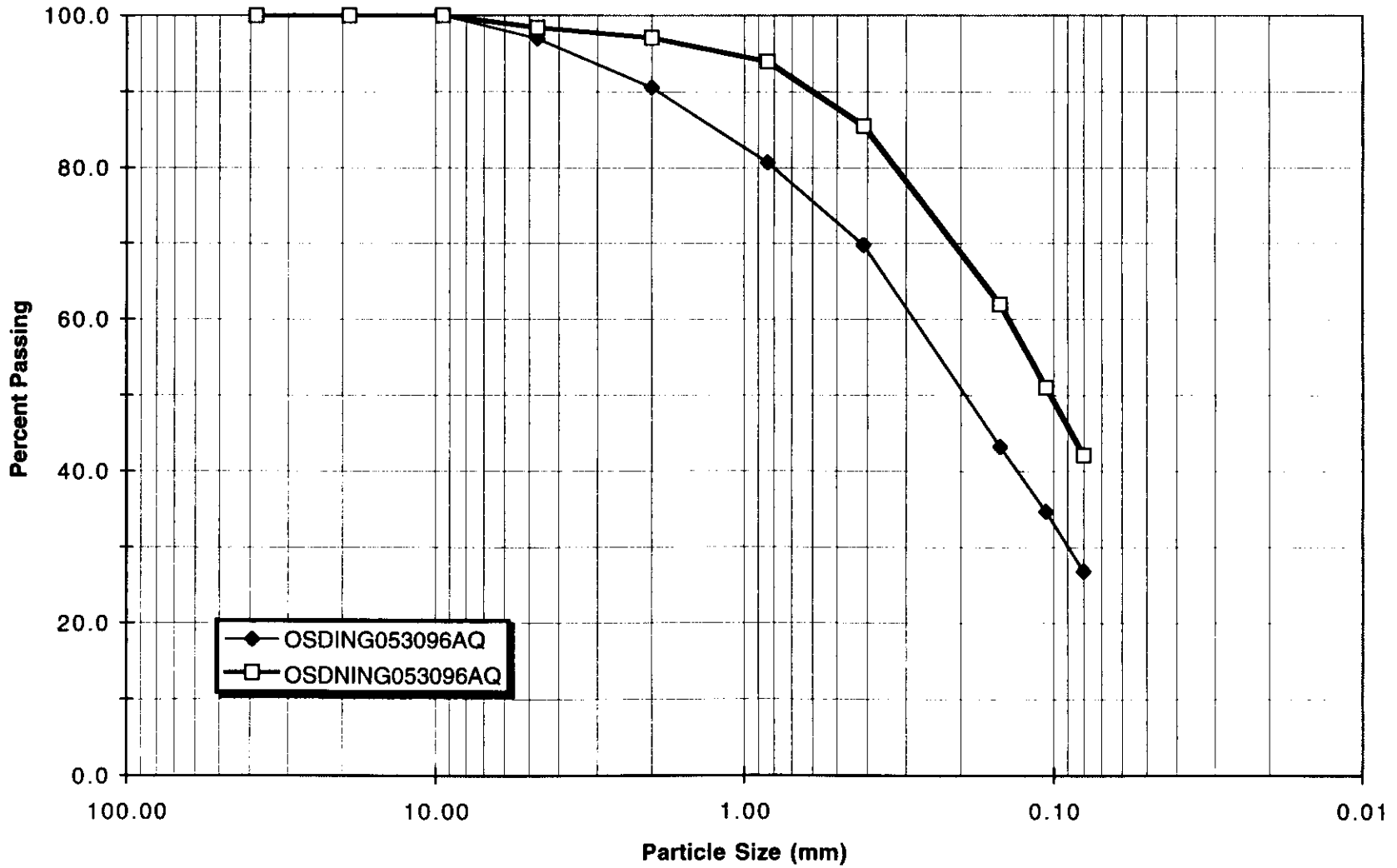
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## Street Sediment Loads Project



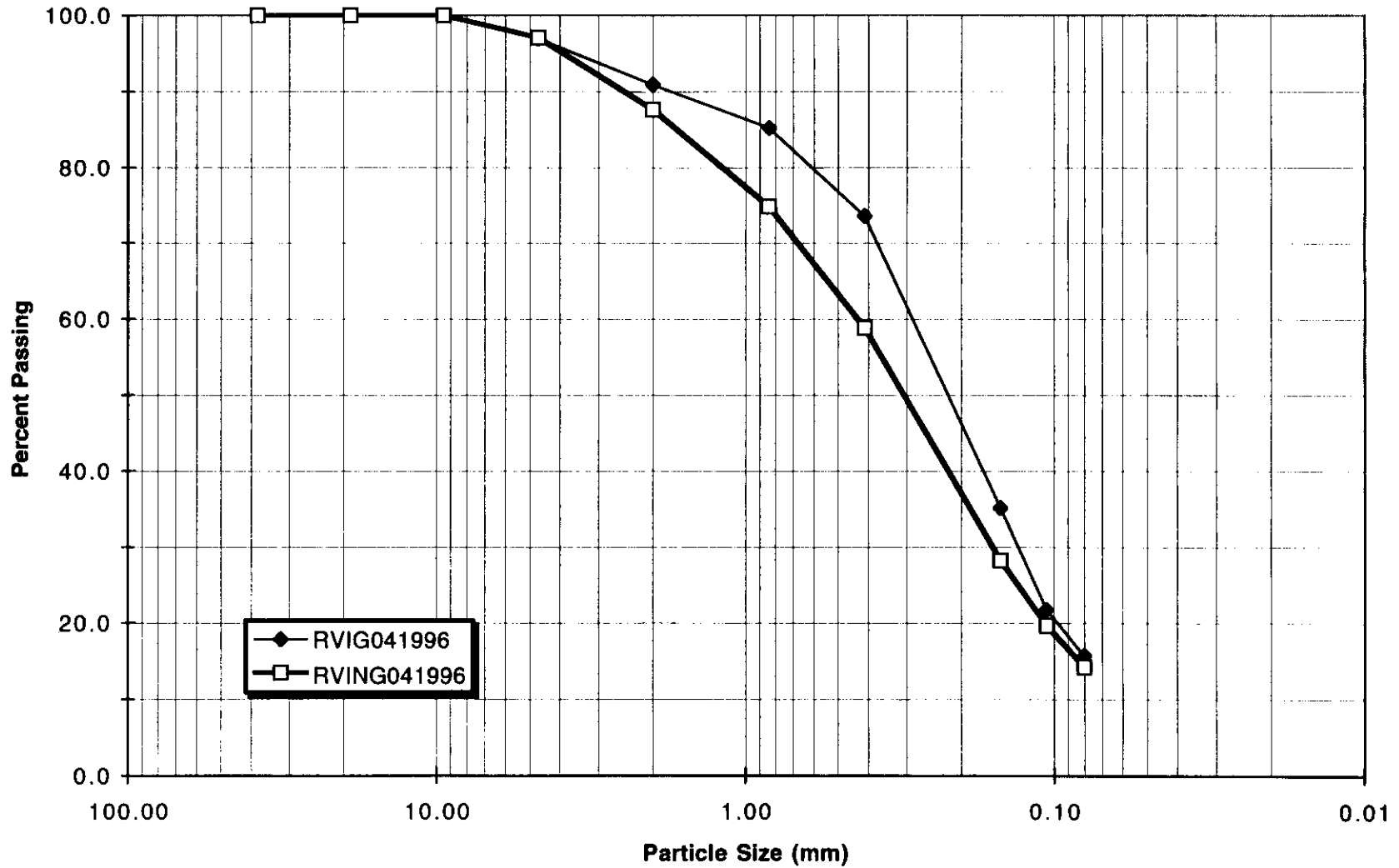
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## Street Sediment Loads Project



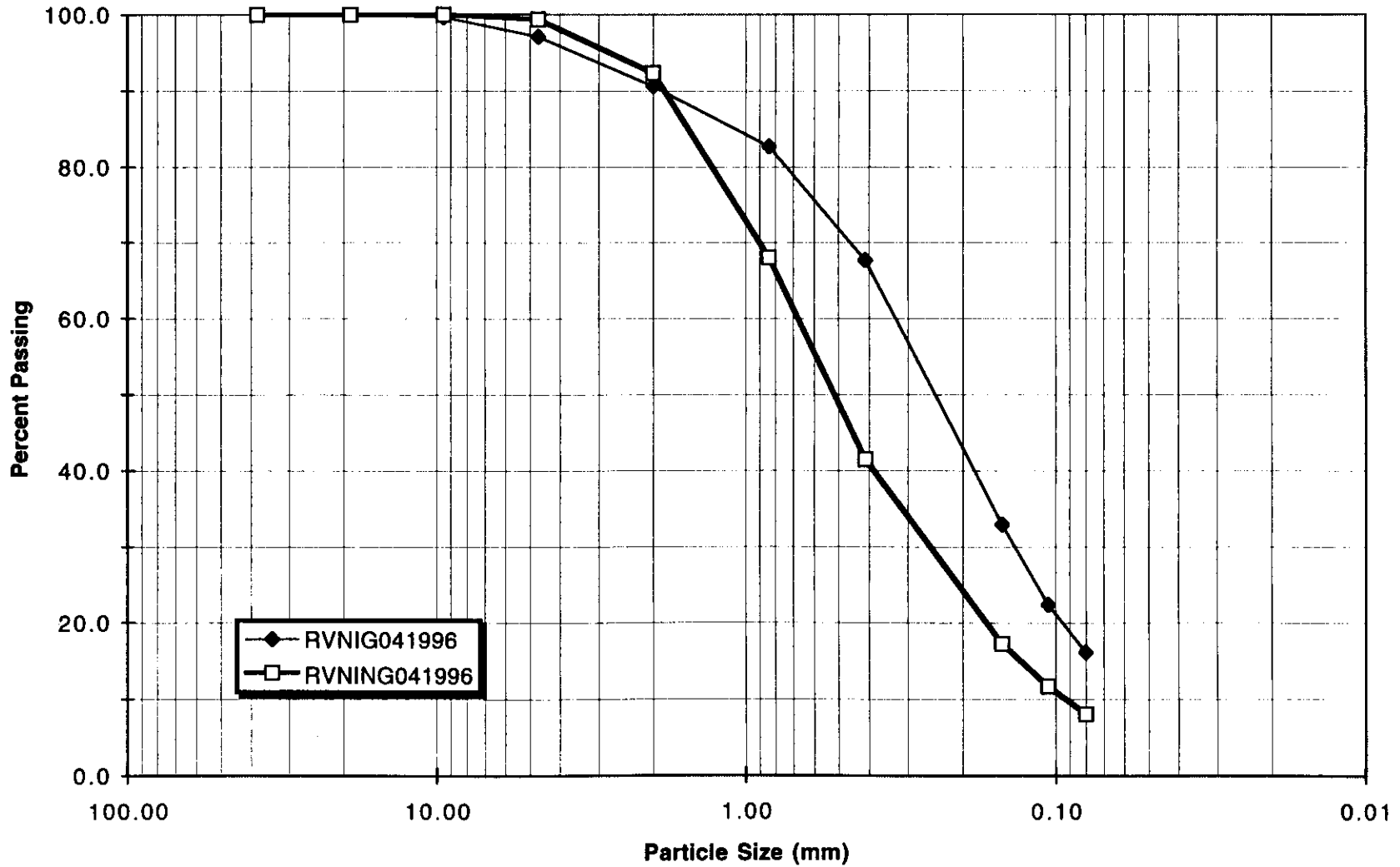
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## Street Sediment Loads Project



# GRAIN SIZE DISTRIBUTION TEST REPORT

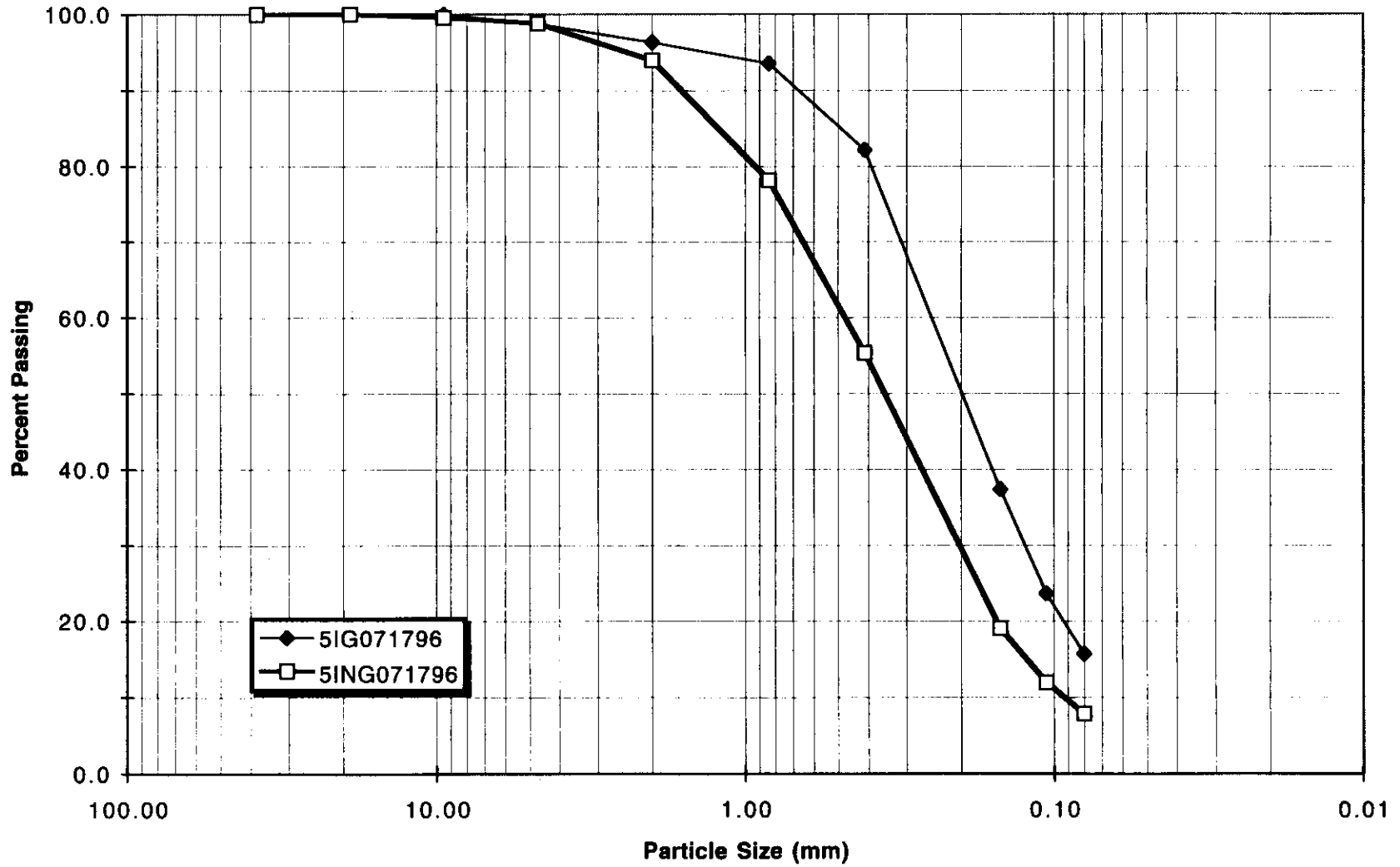
## Street Sediment Loads Project



## Round 3 Particle Size Distribution (Sieve Analysis) Plots

# GRAIN SIZE DISTRIBUTION TEST REPORT

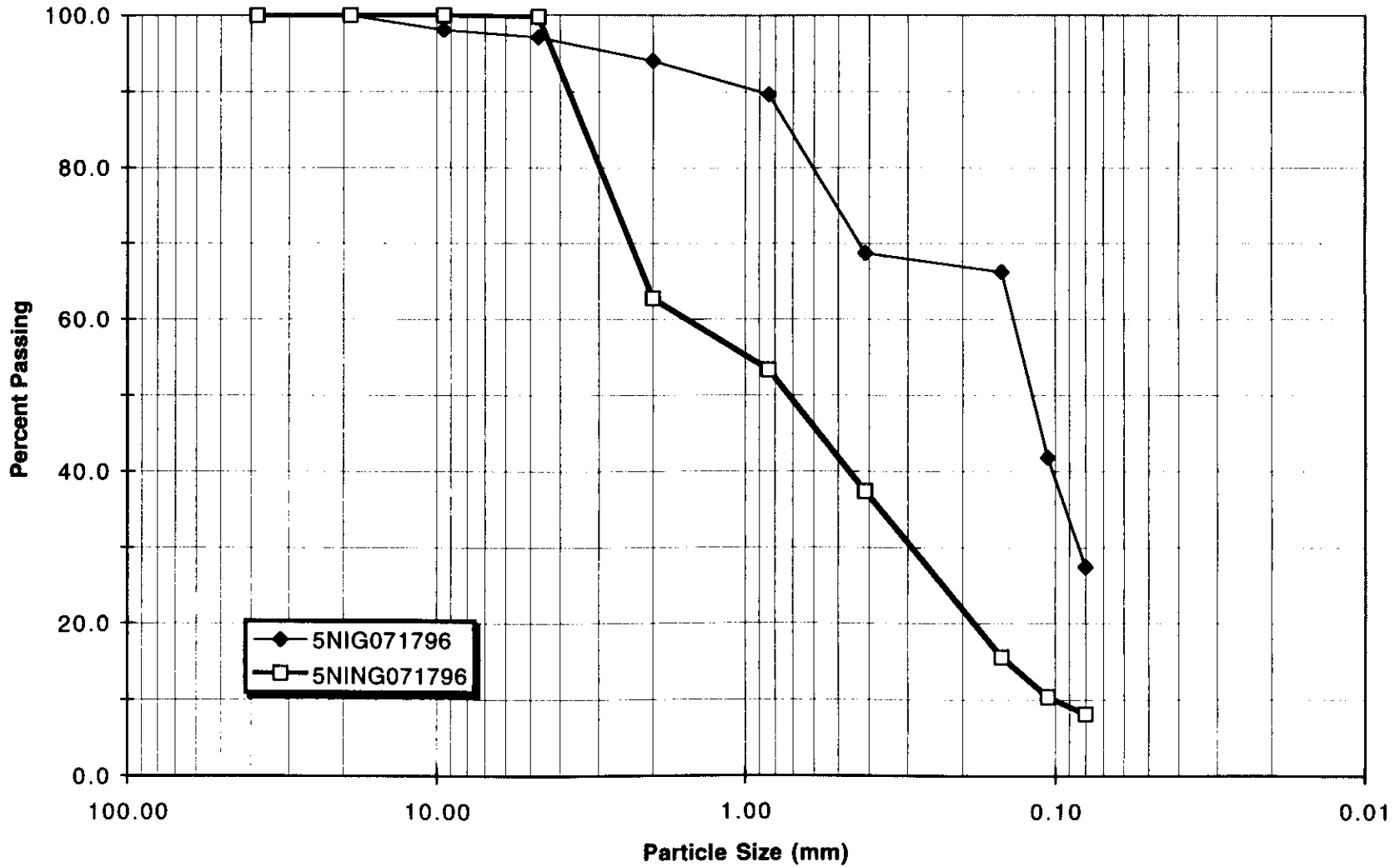
## Street Sediment Loads Project





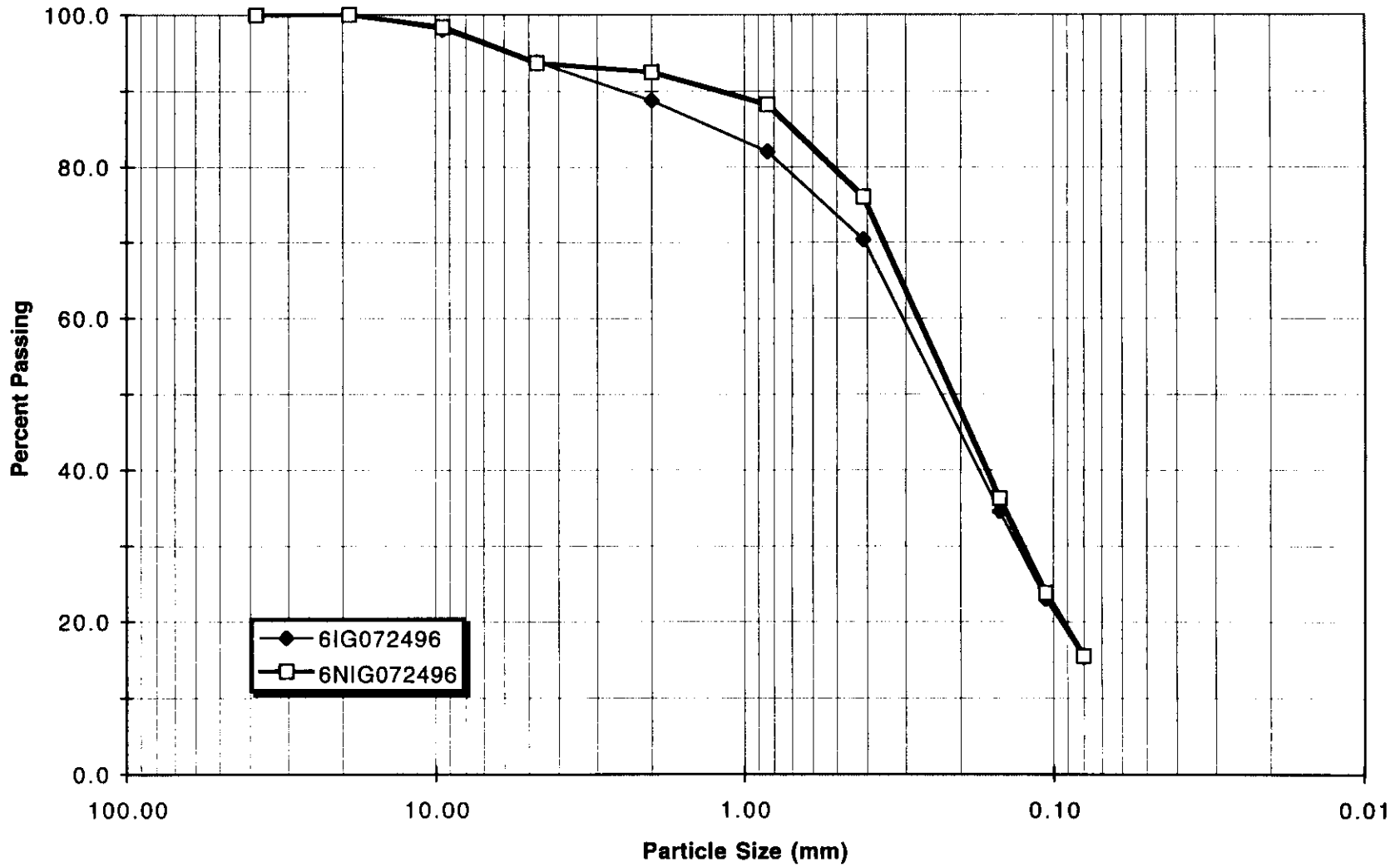
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## Street Sediment Loads Project



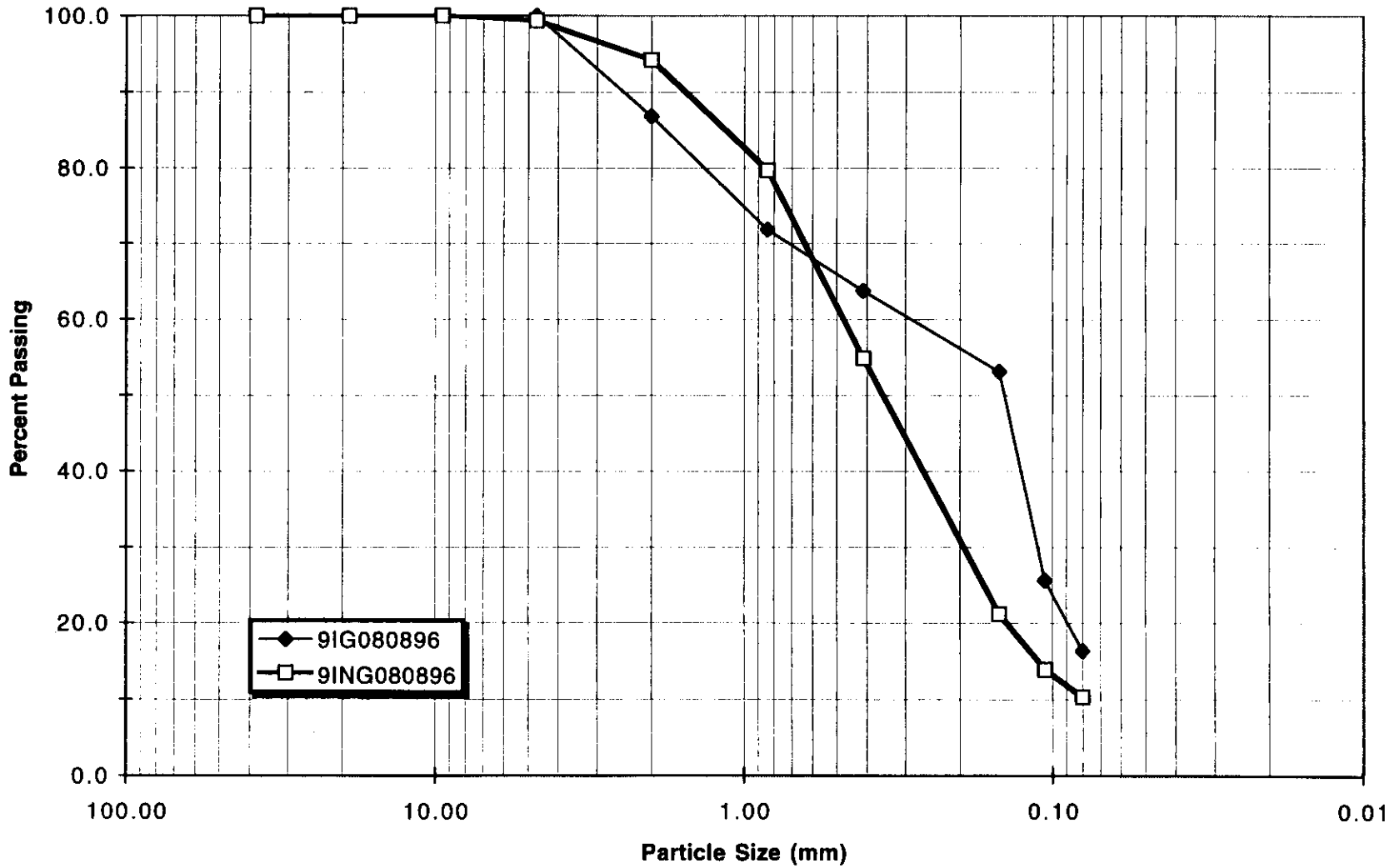
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## Street Sediment Loads Project



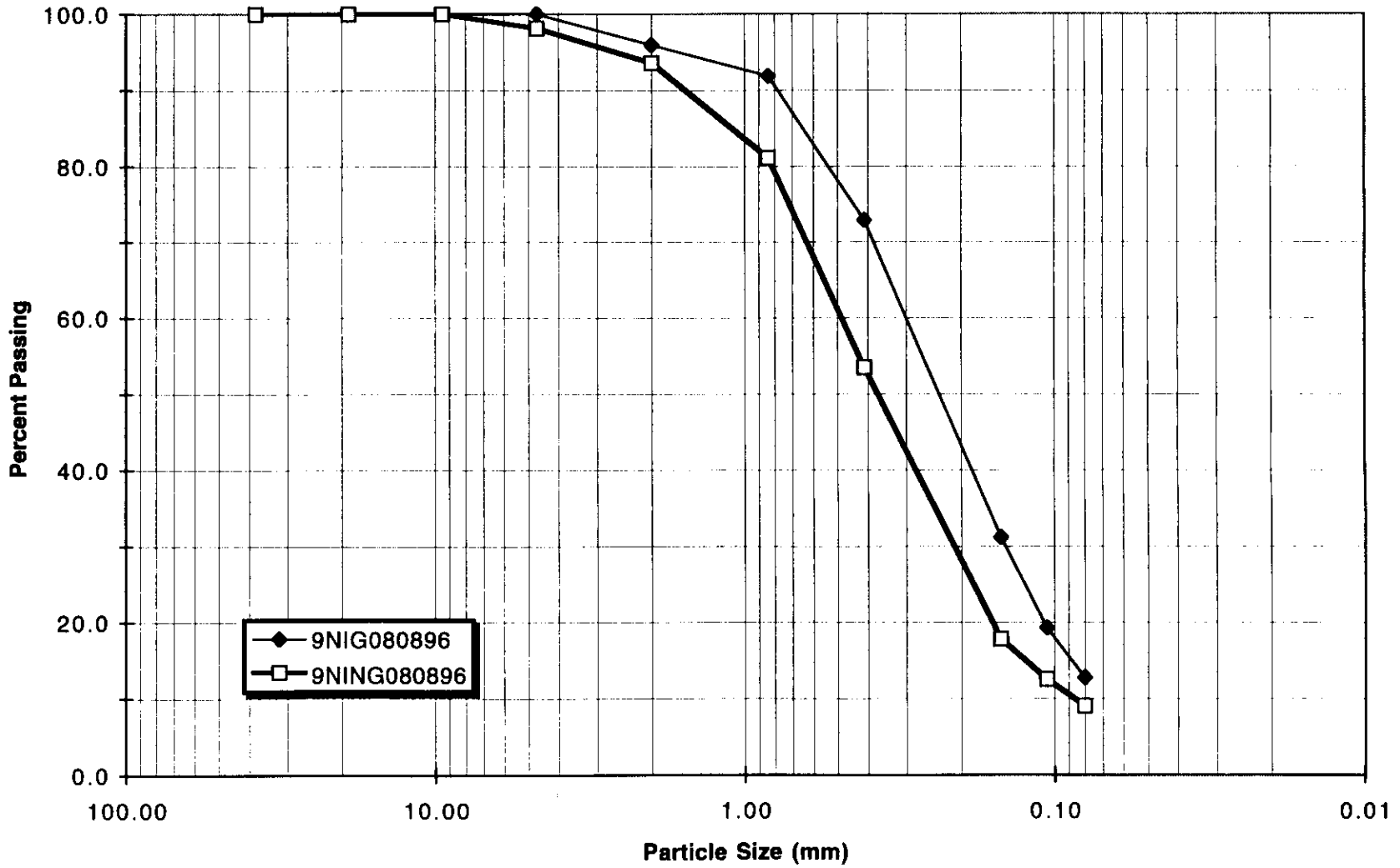
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## Street Sediment Loads Project

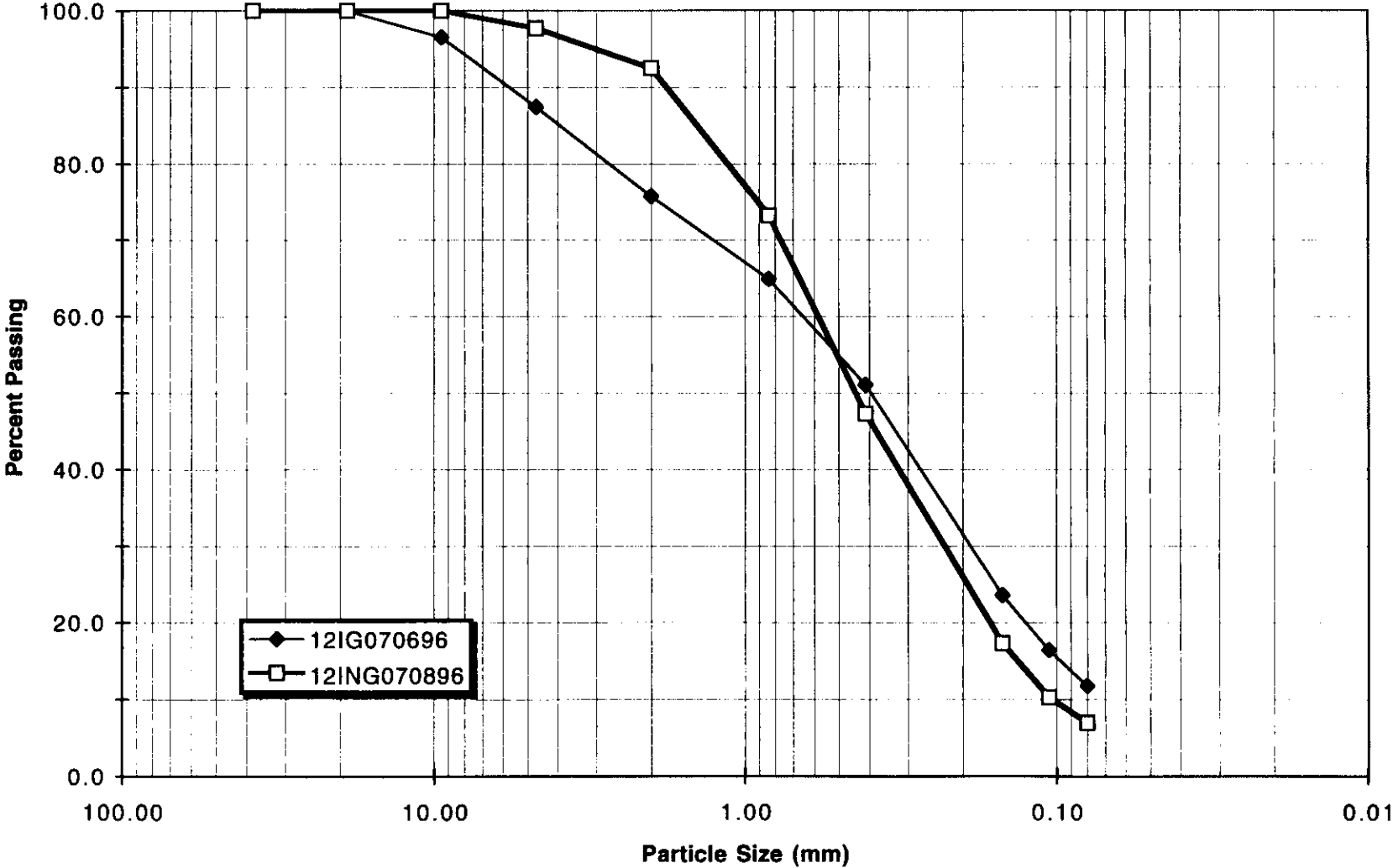


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## Street Sediment Loads Project

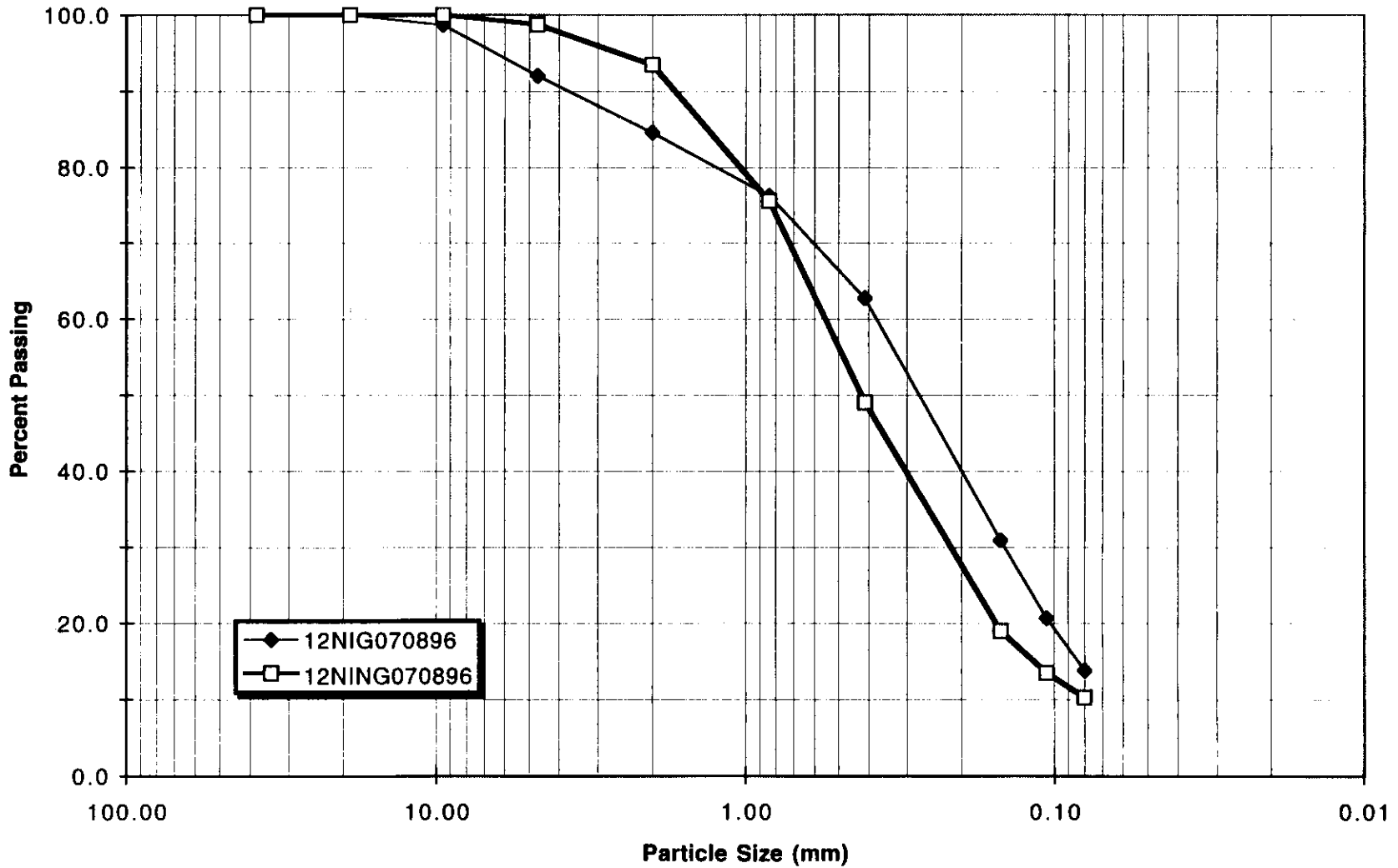


**GRAIN SIZE DISTRIBUTION TEST REPORT**  
**Street Sediment Loads Project**



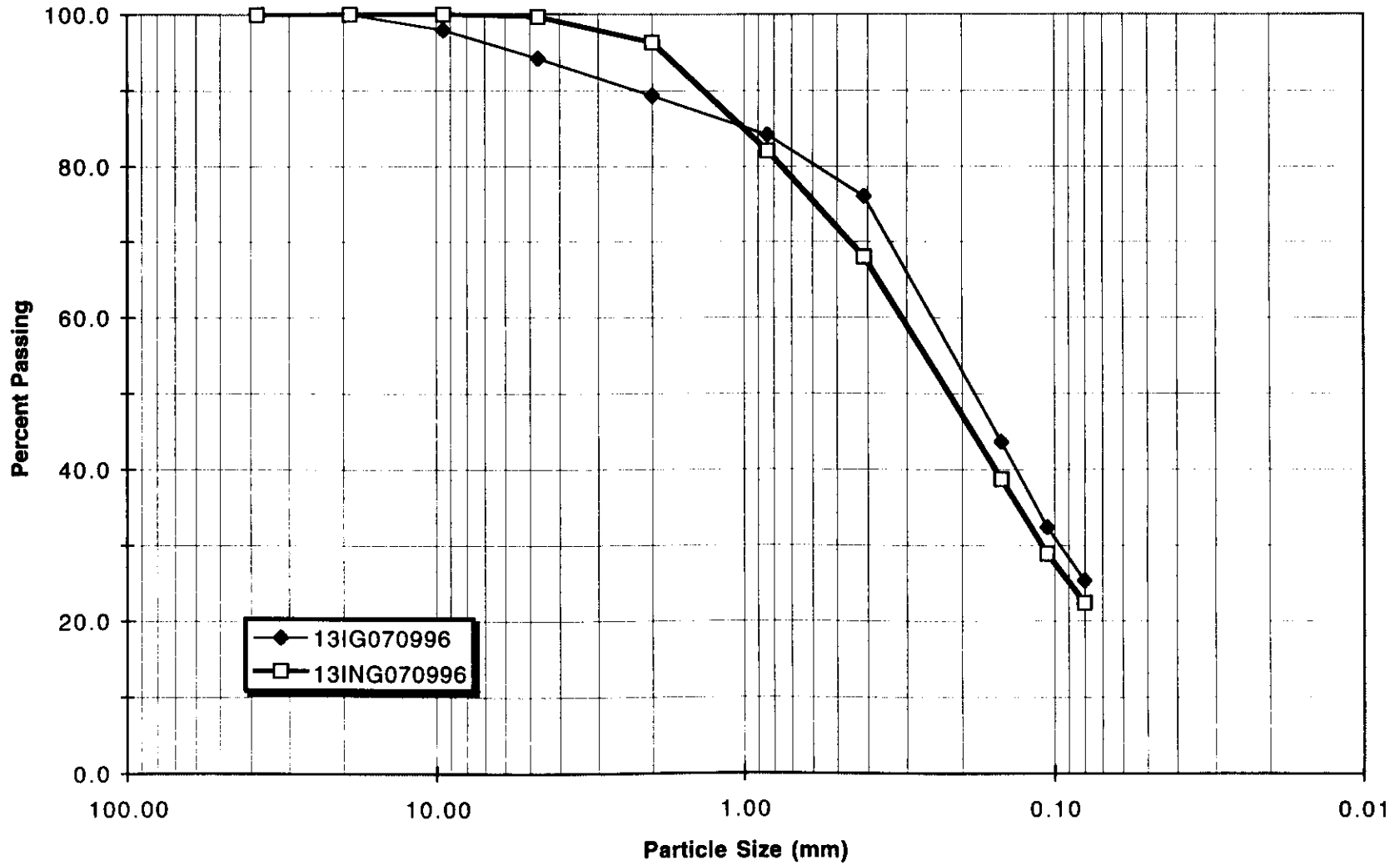
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## Street Sediment Loads Project



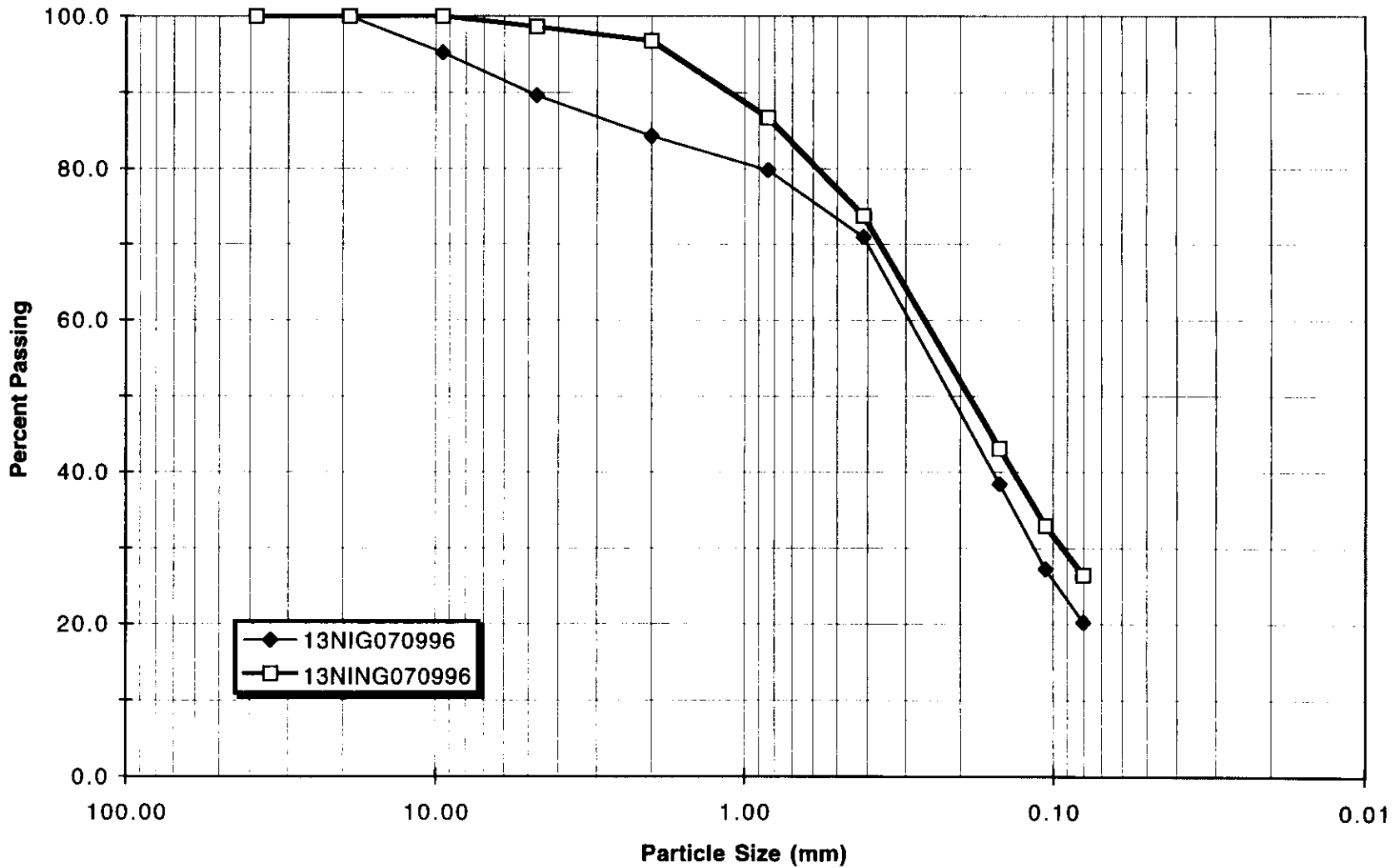
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## Street Sediment Loads Project



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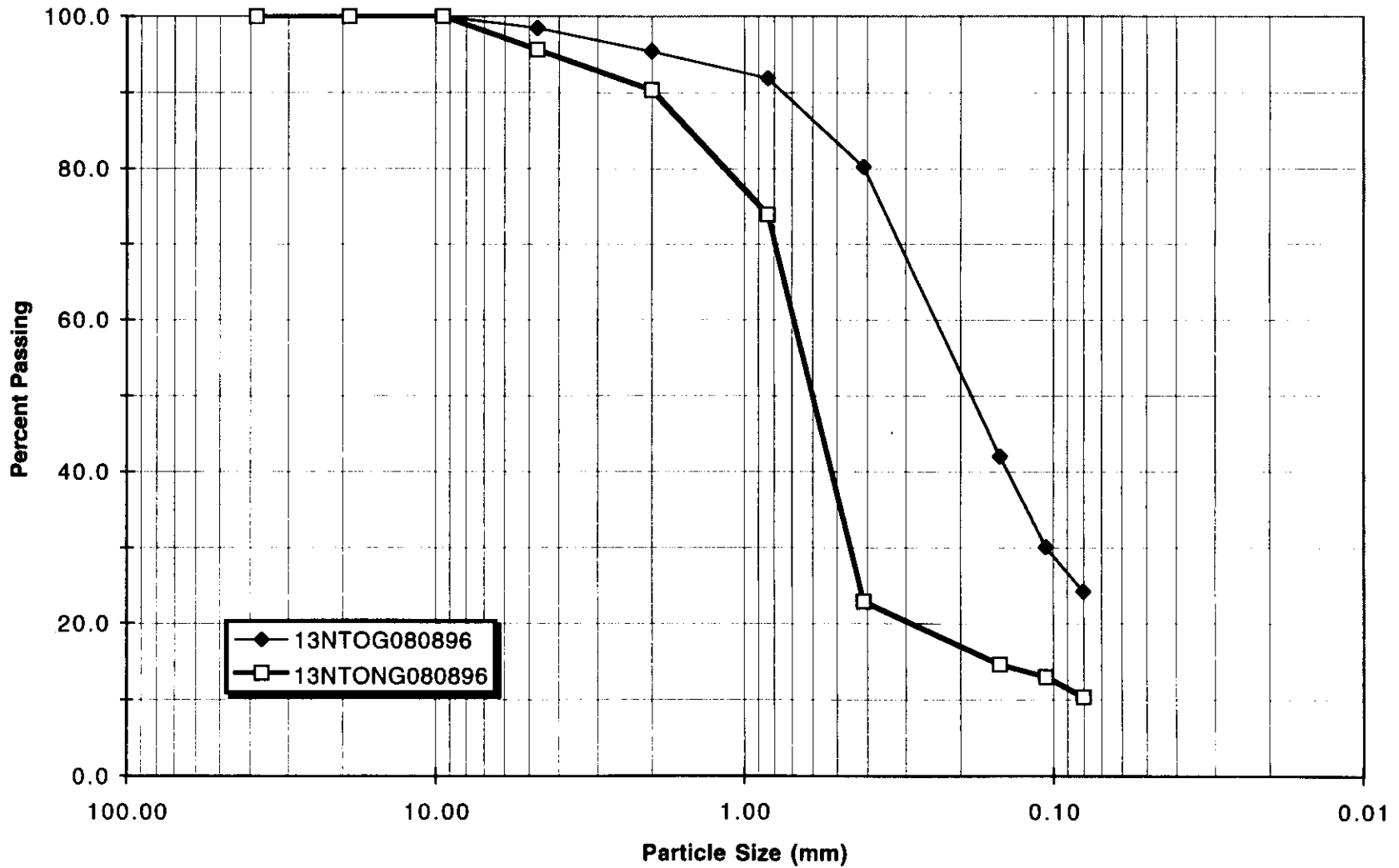
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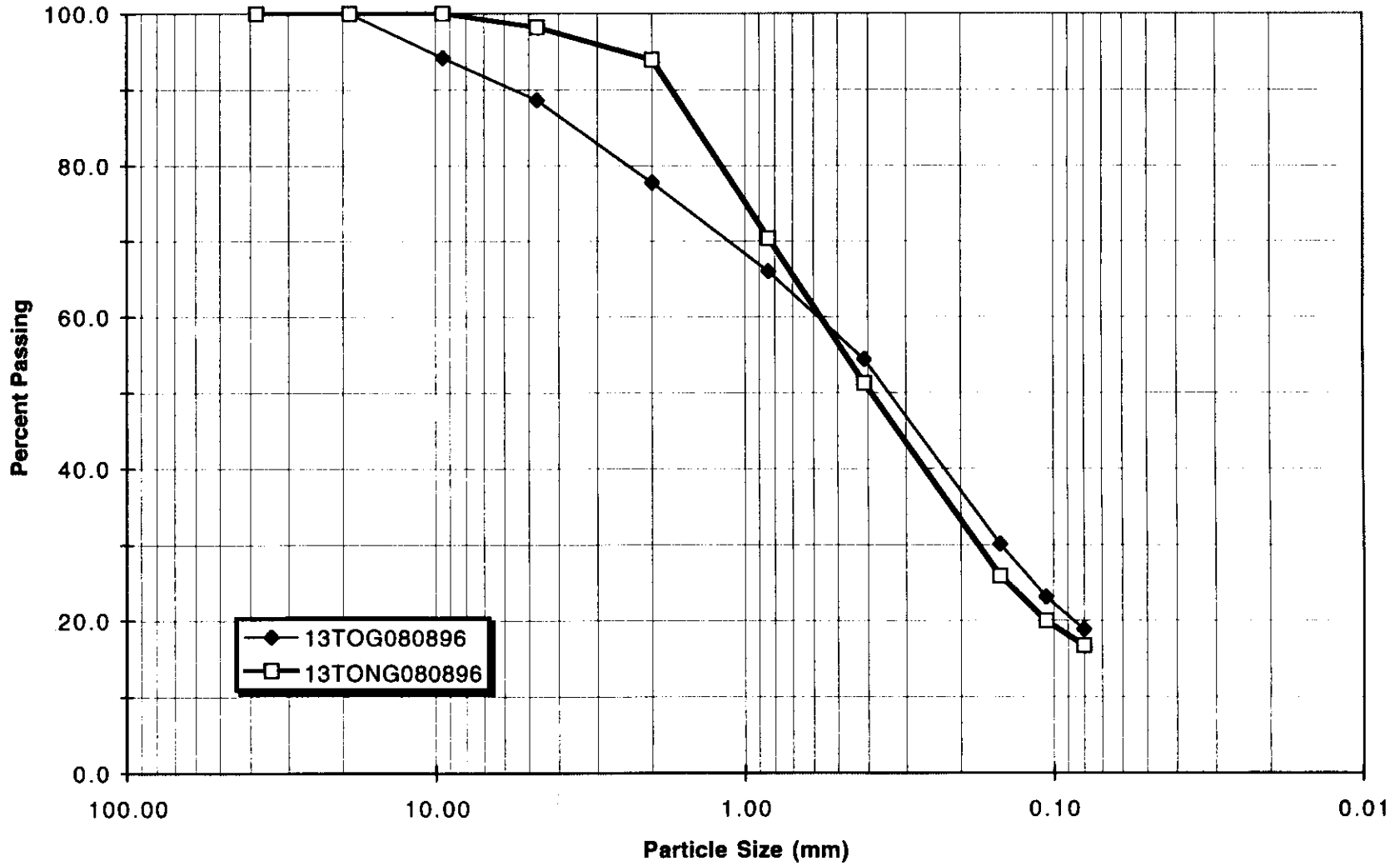
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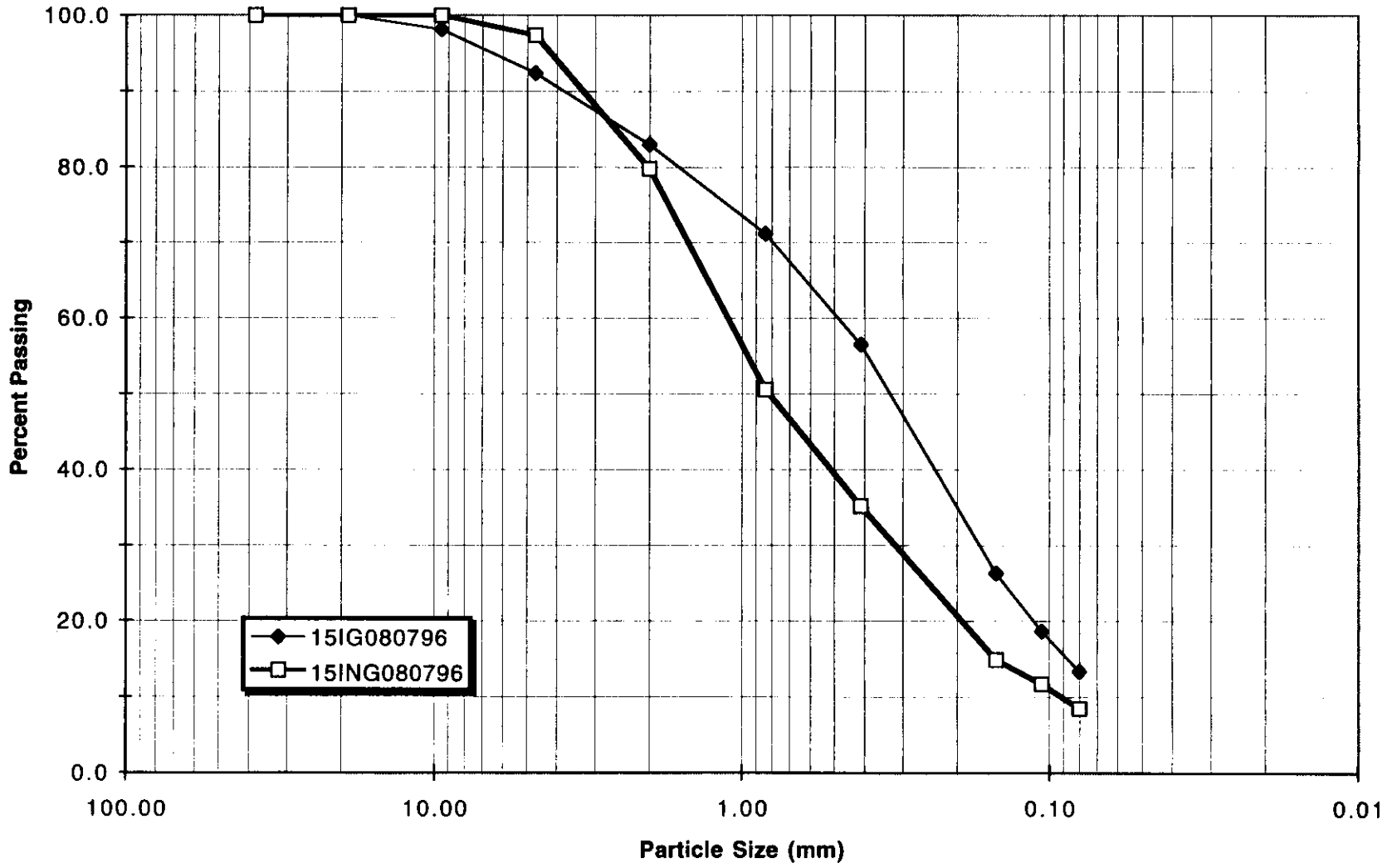
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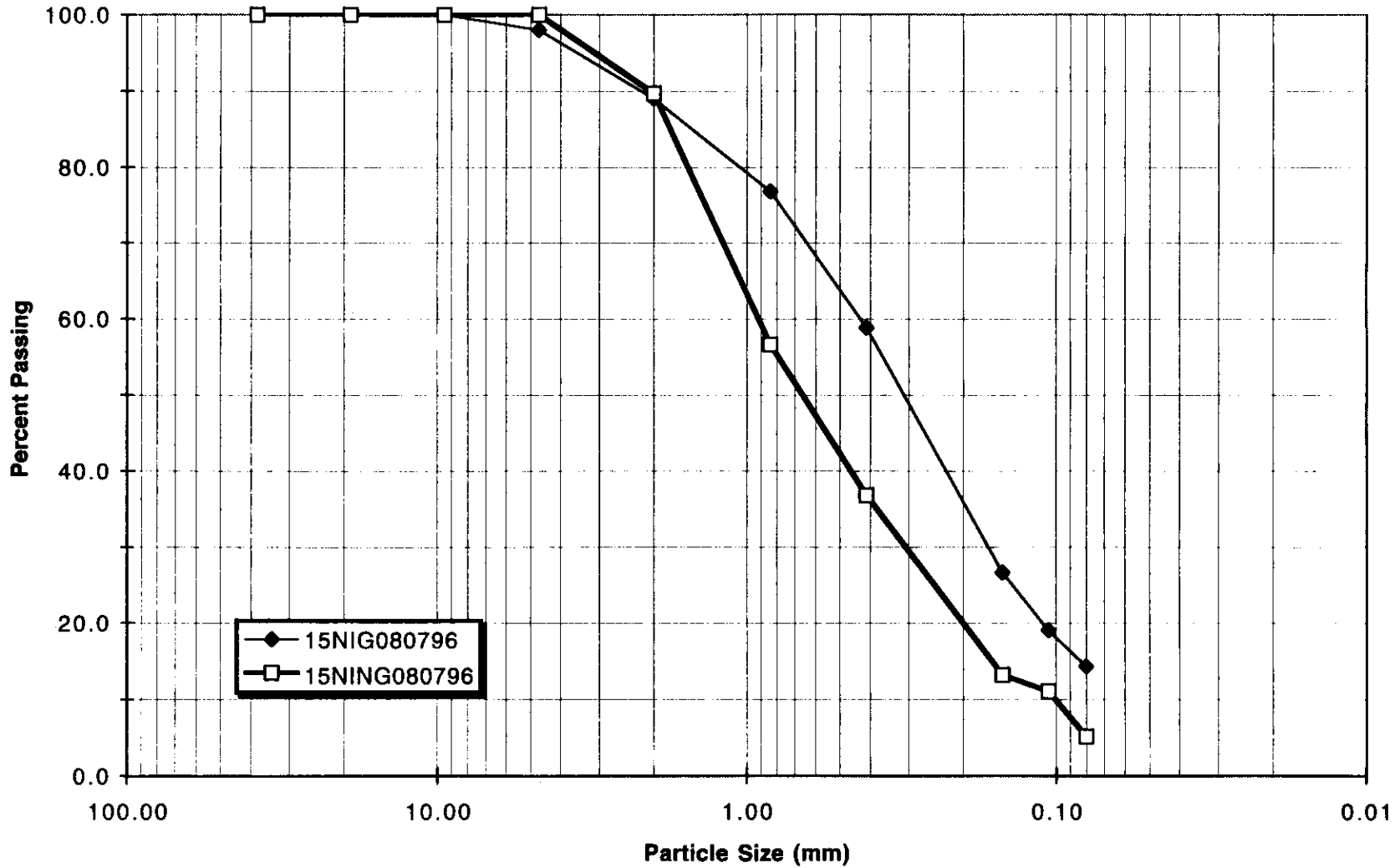
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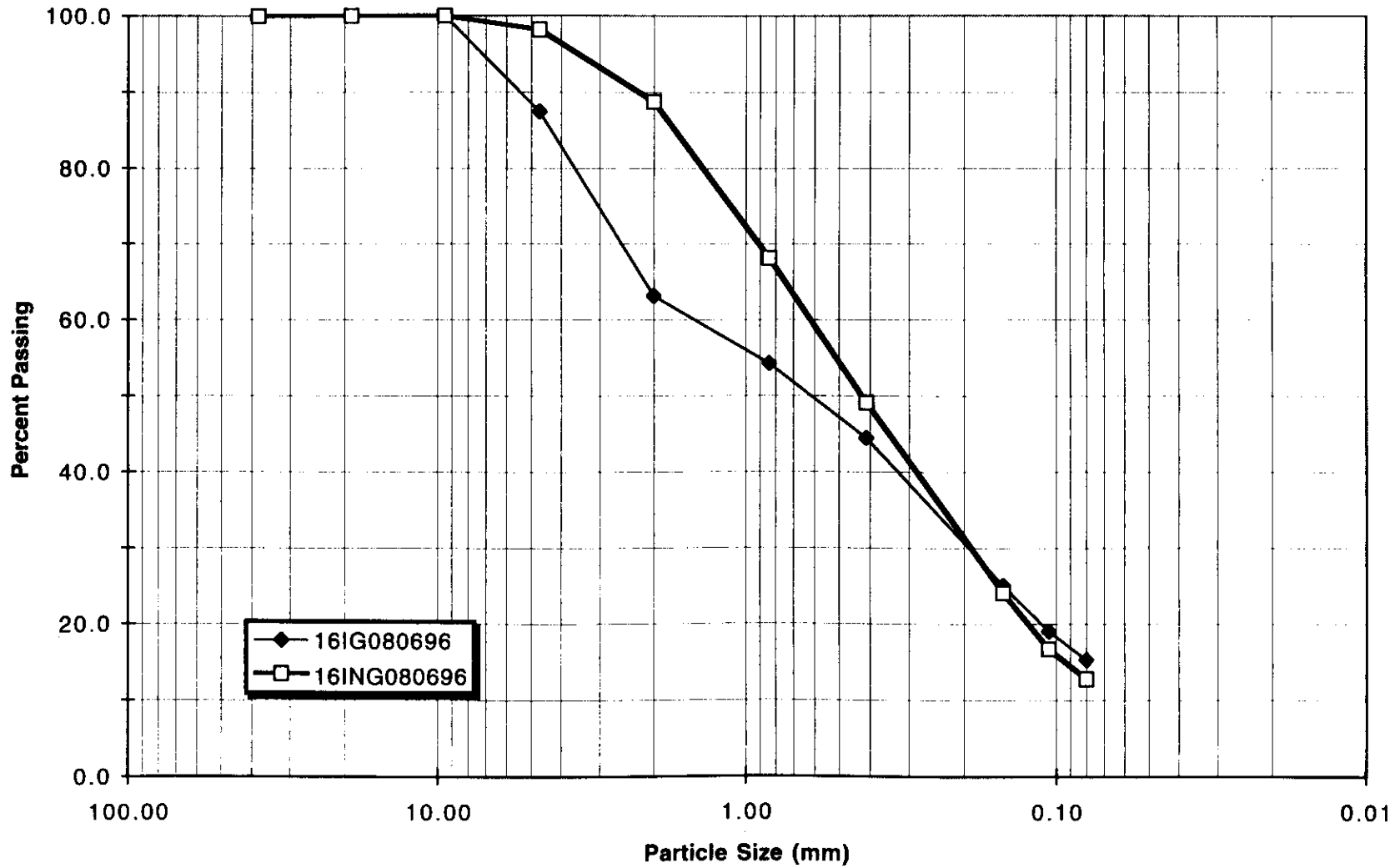
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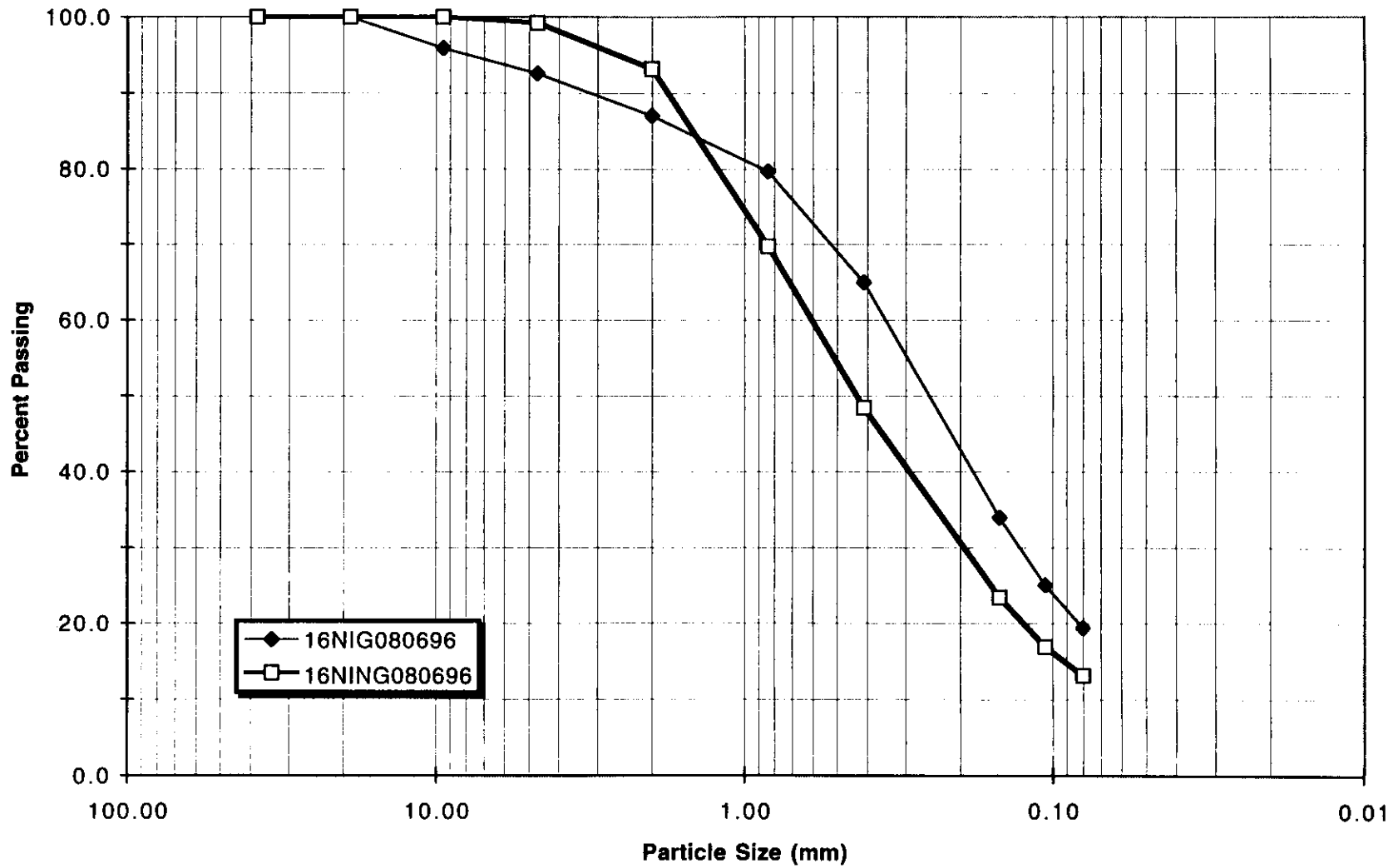
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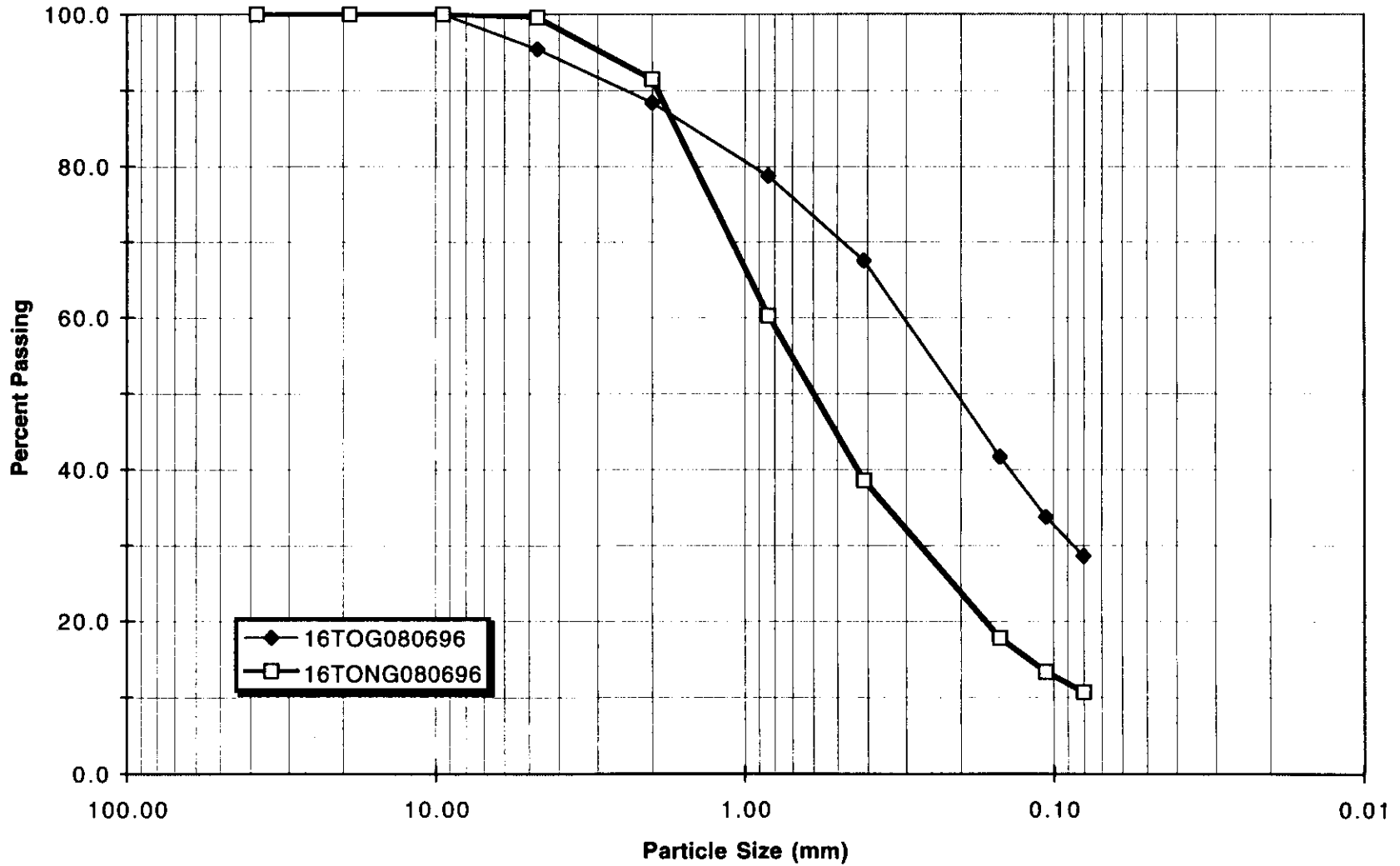
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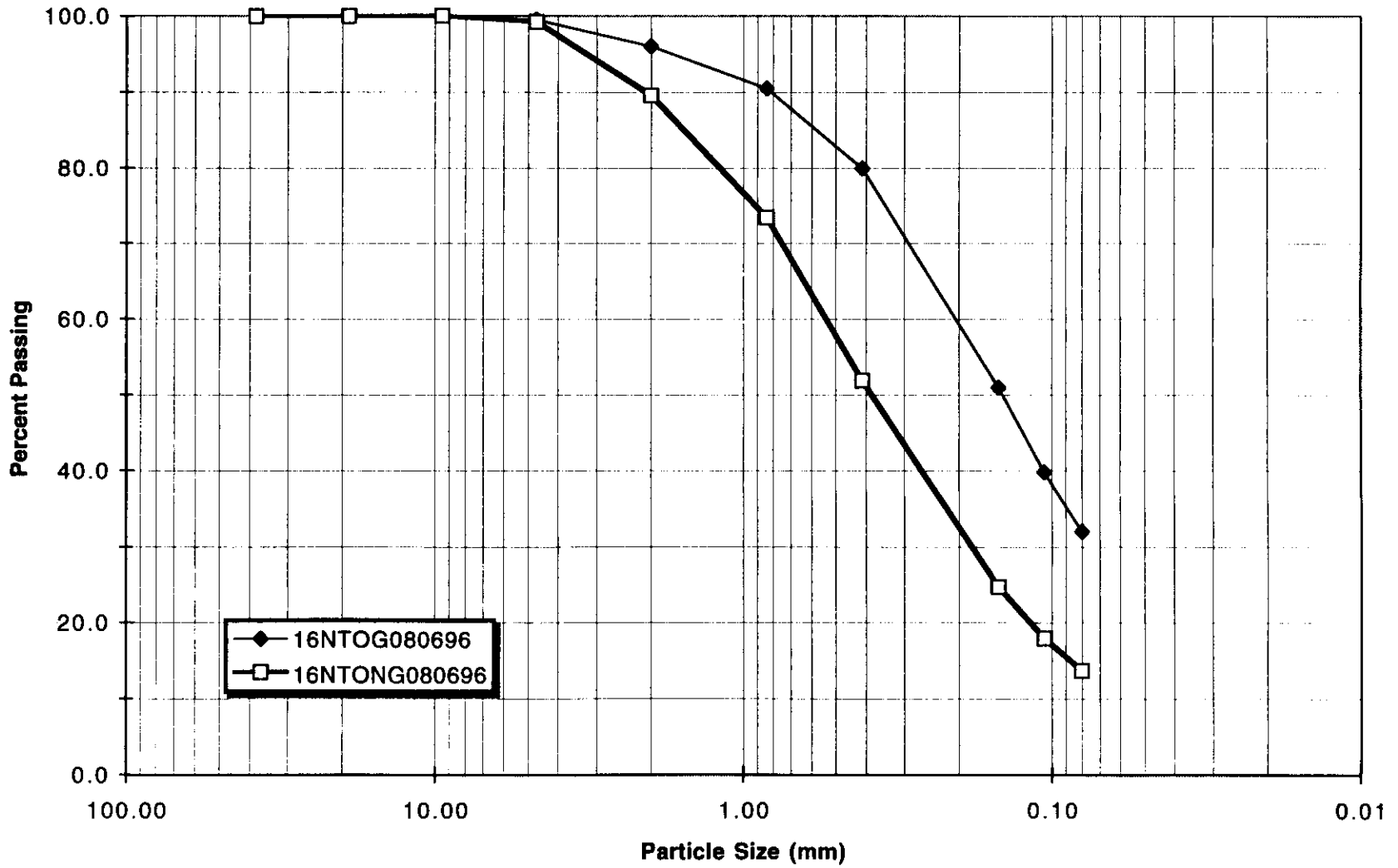
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## Street Sediment Loads Project



# GRAIN SIZE DISTRIBUTION TEST REPORT

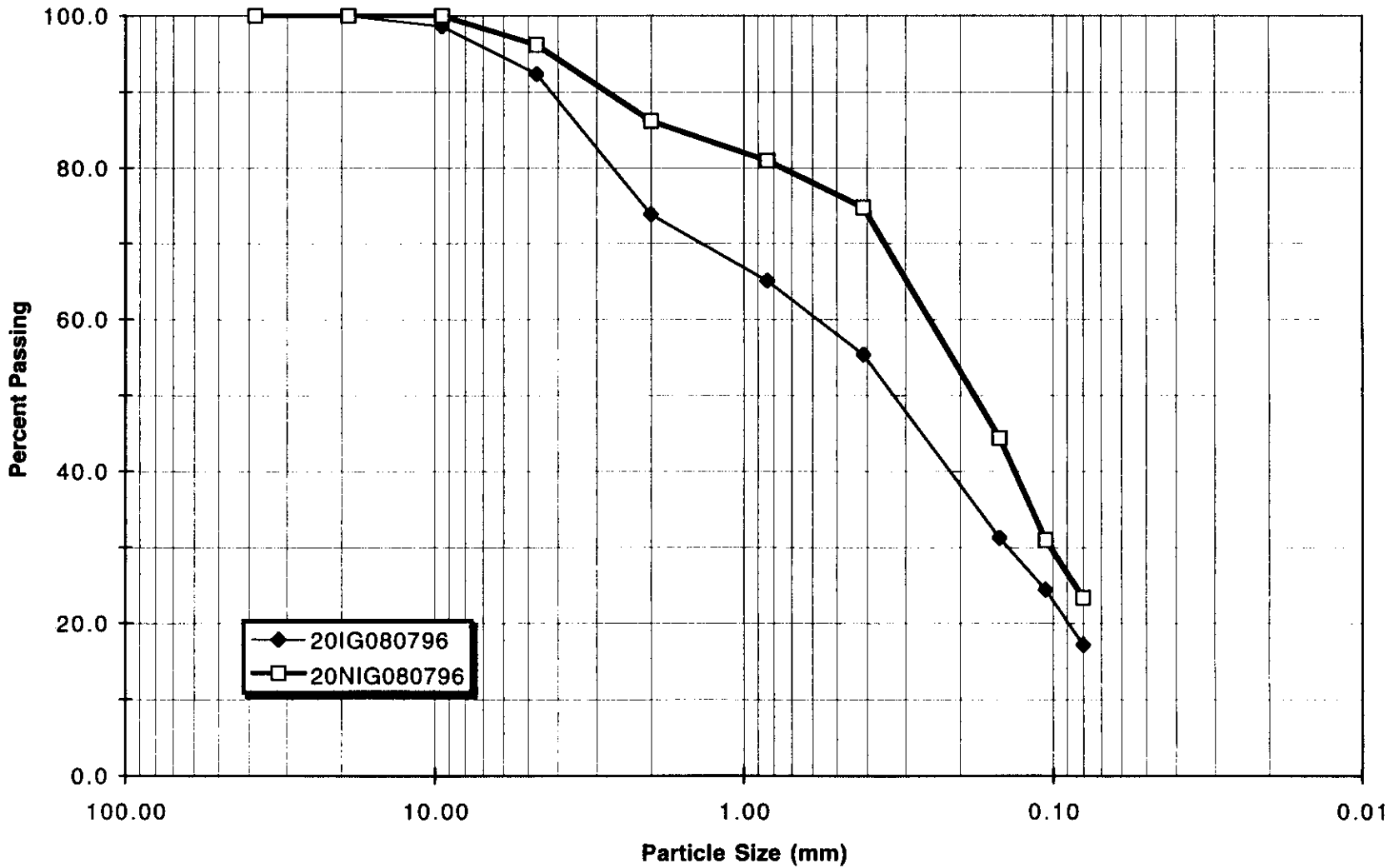
## Street Sediment Loads Project





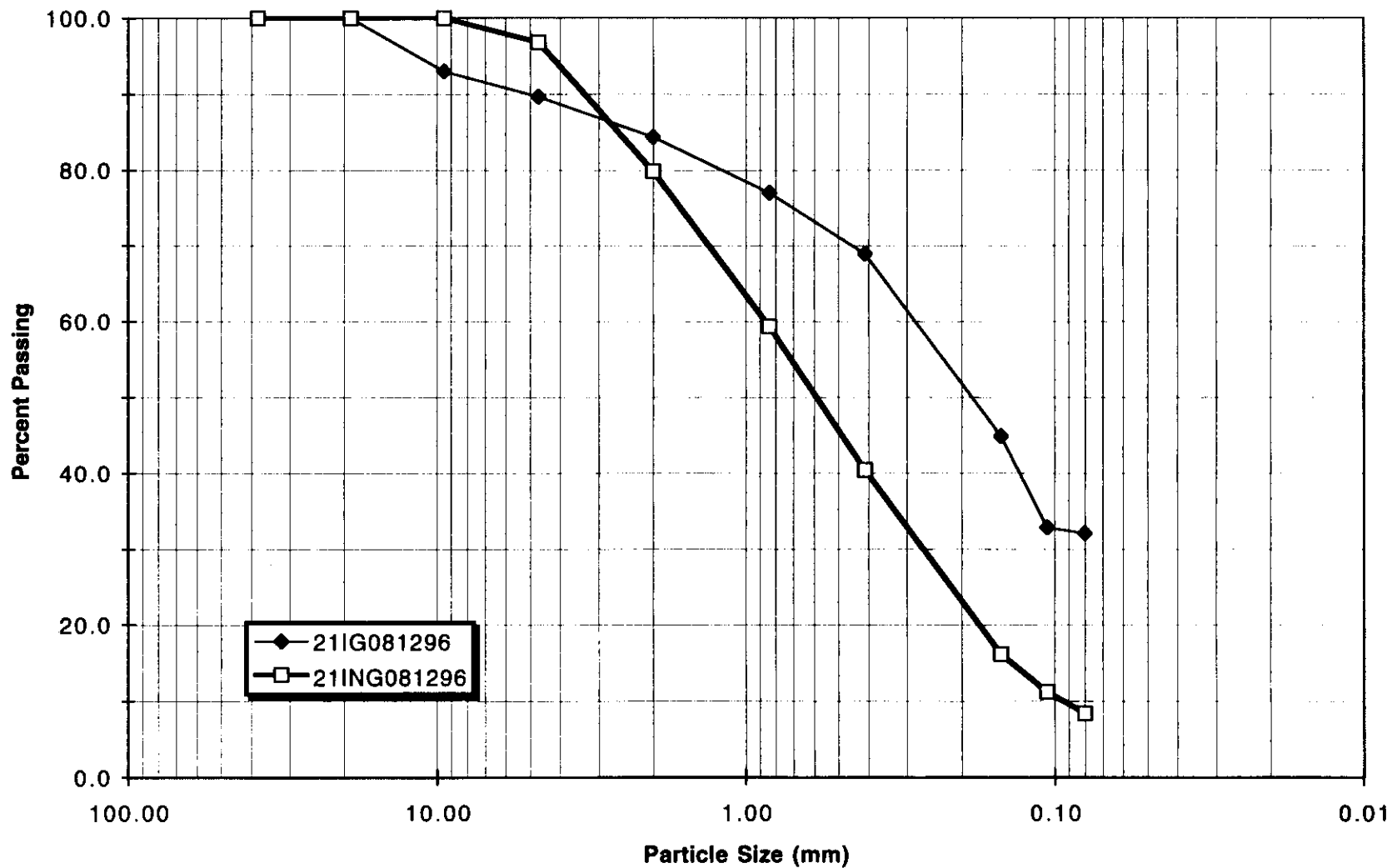
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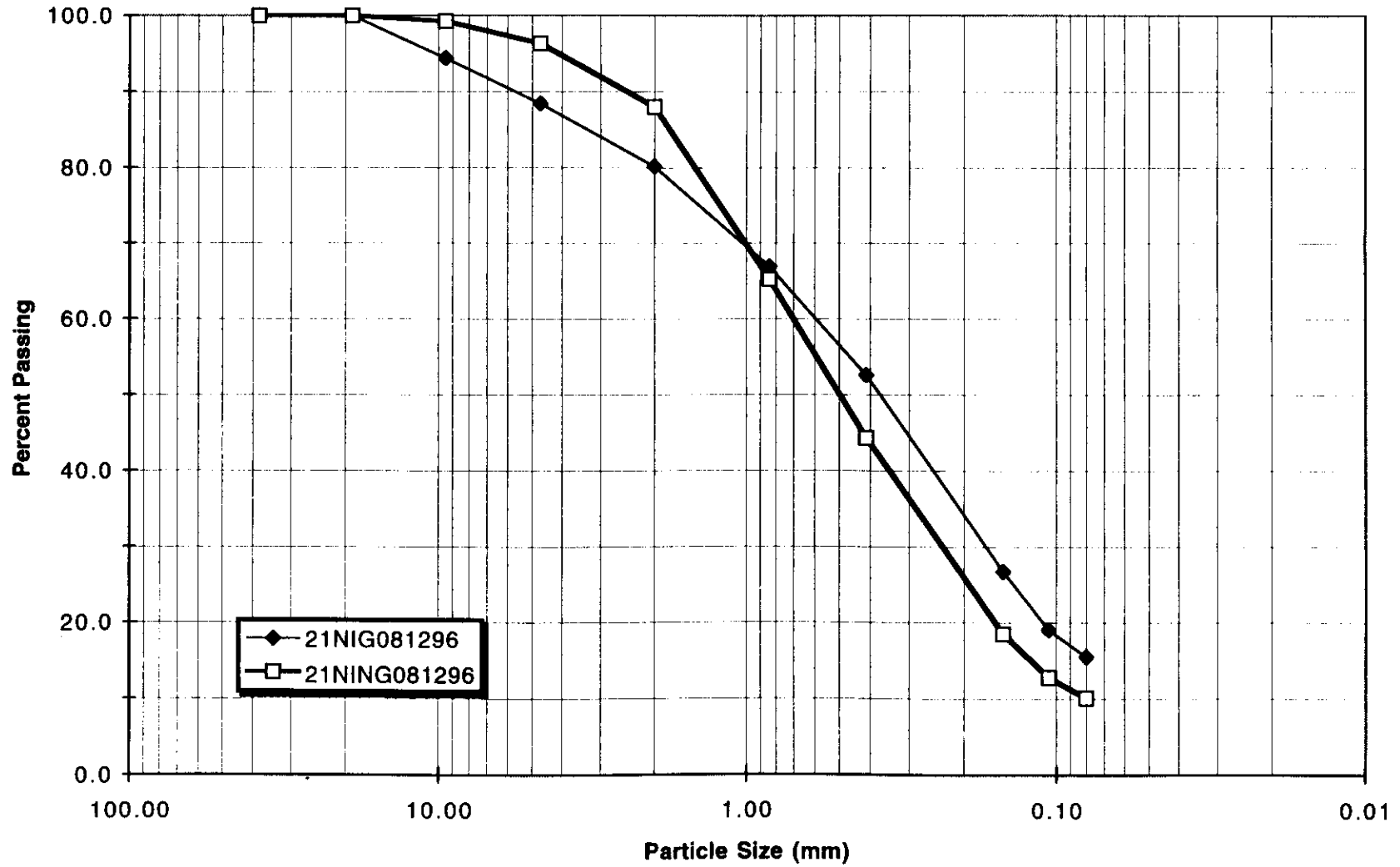
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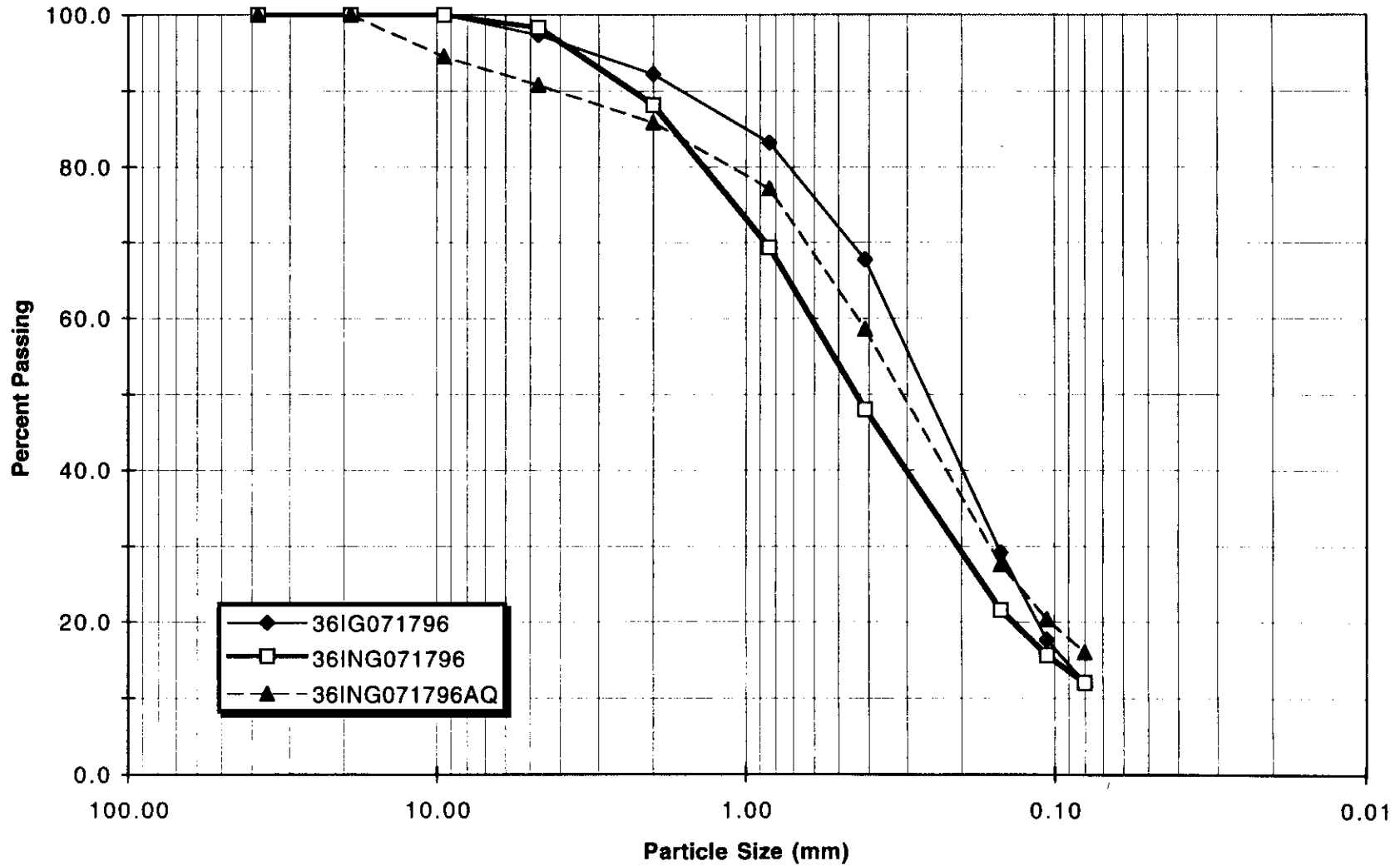
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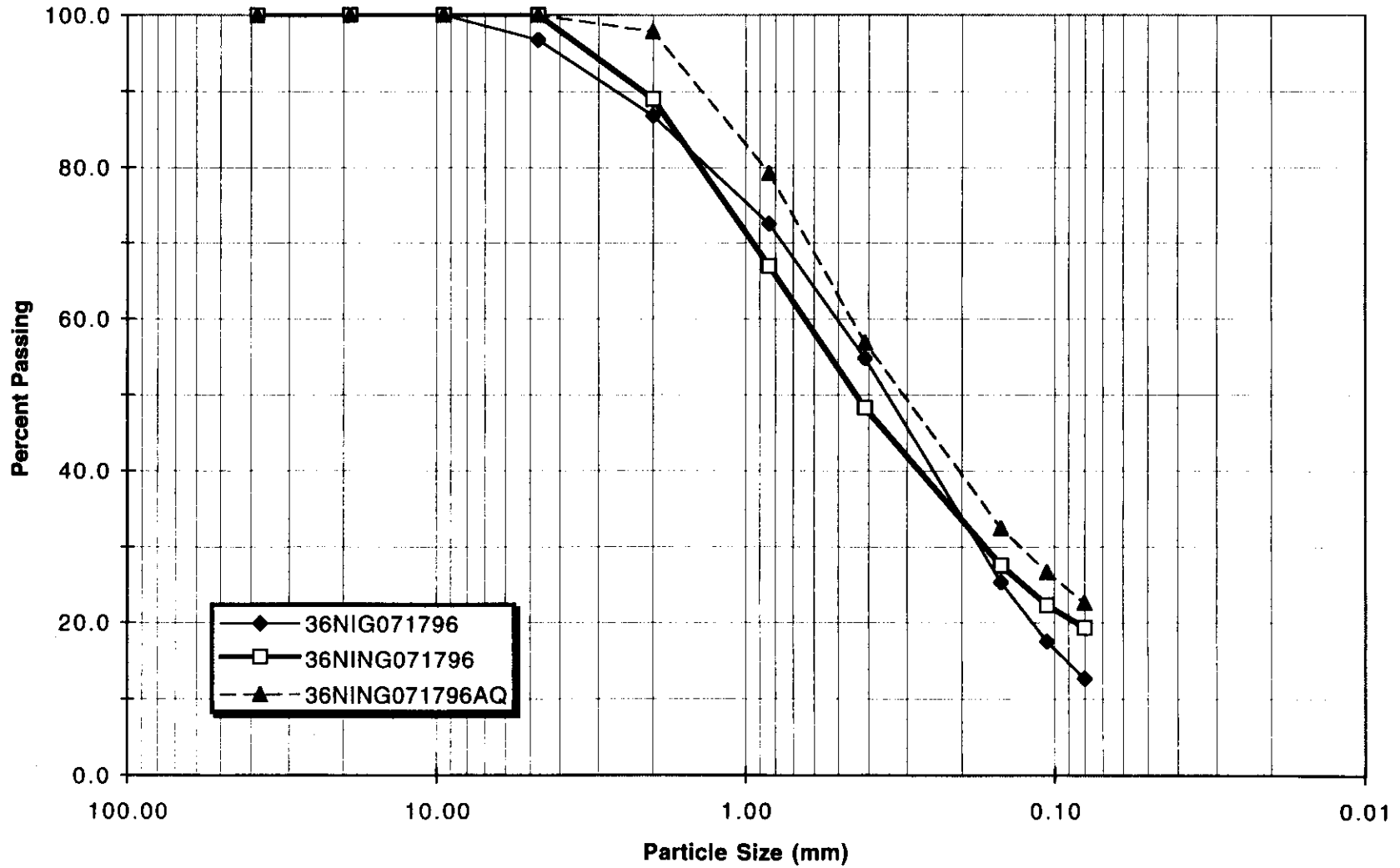
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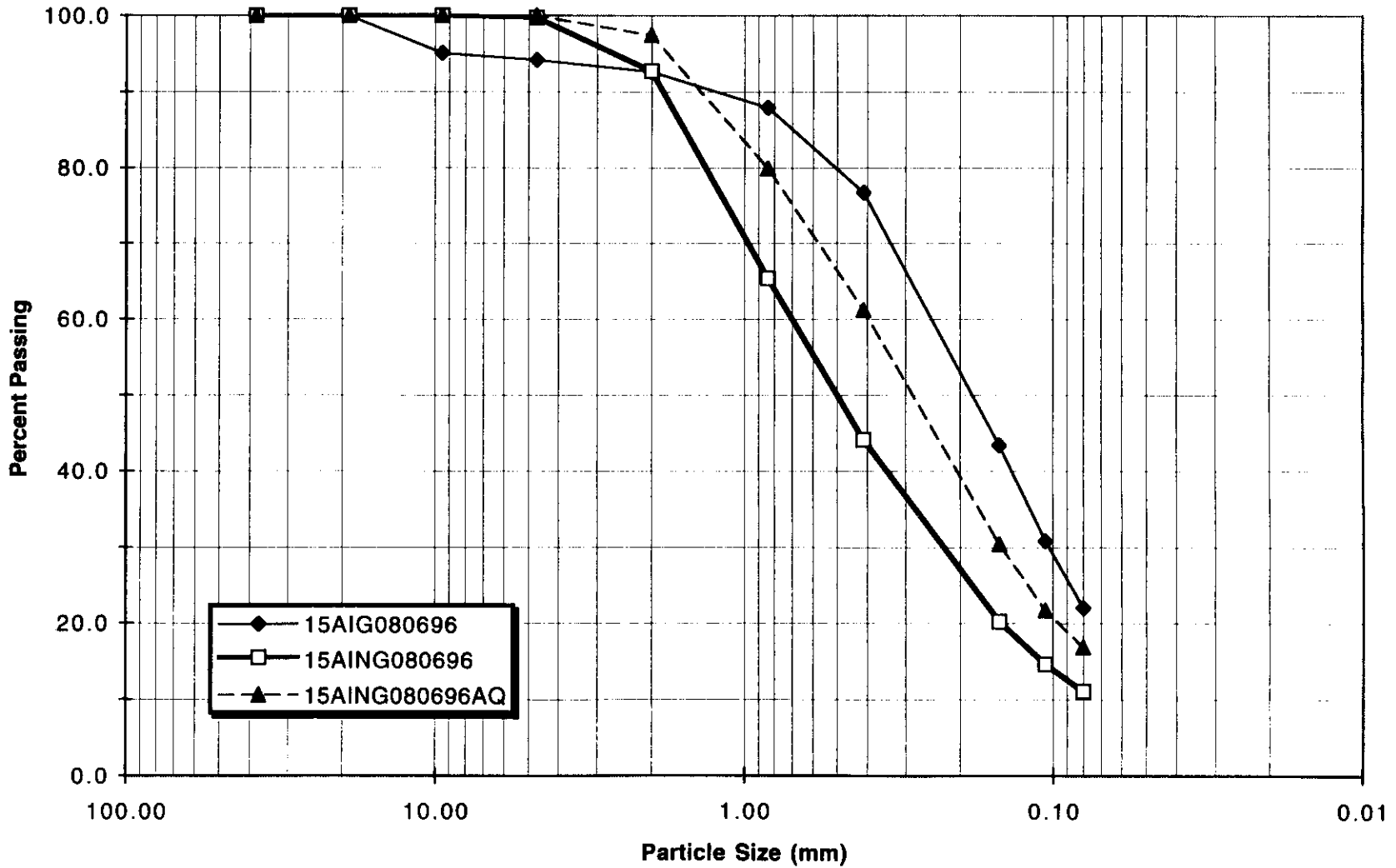
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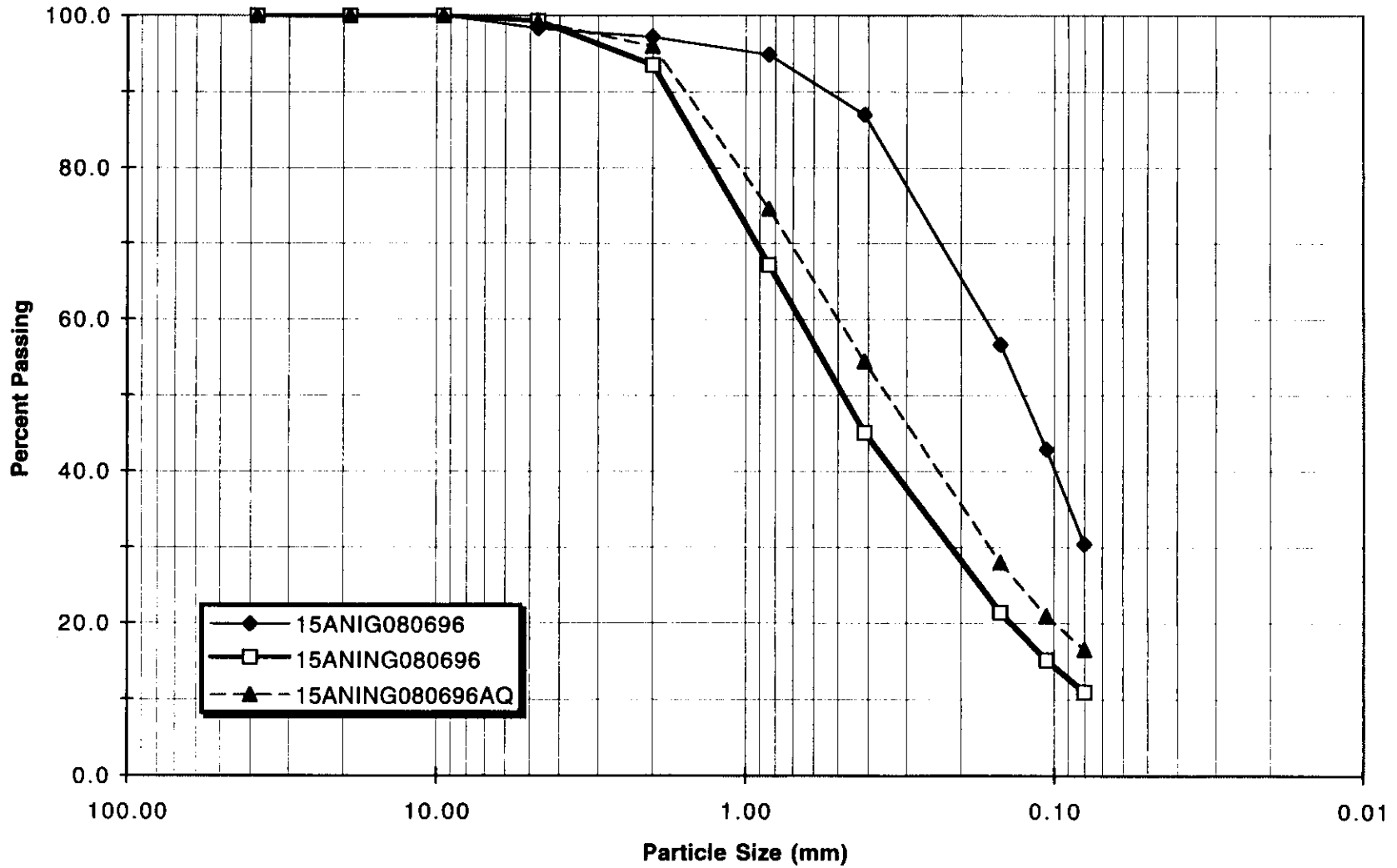
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## Street Sediment Loads Project



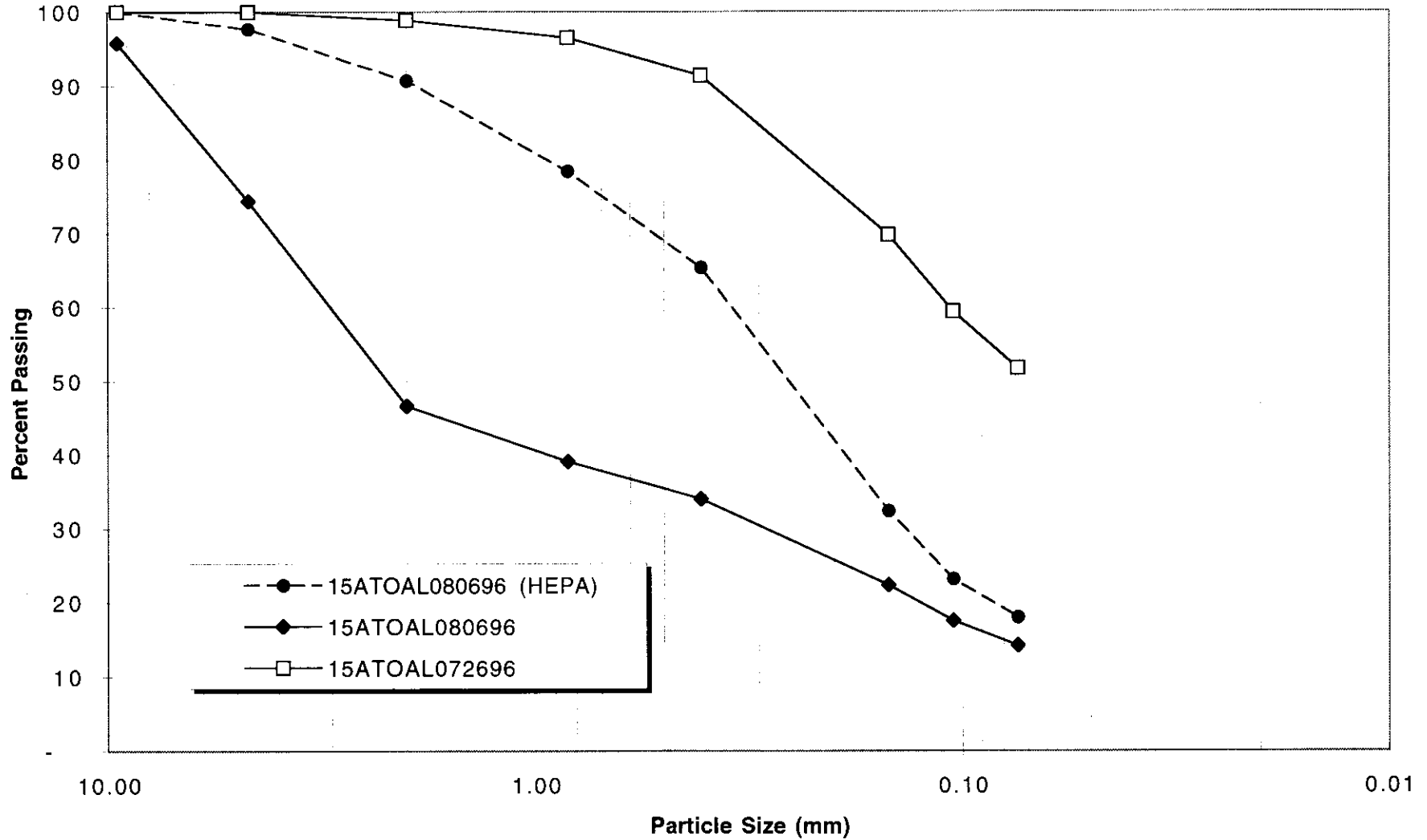
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## Street Sediment Loads Project



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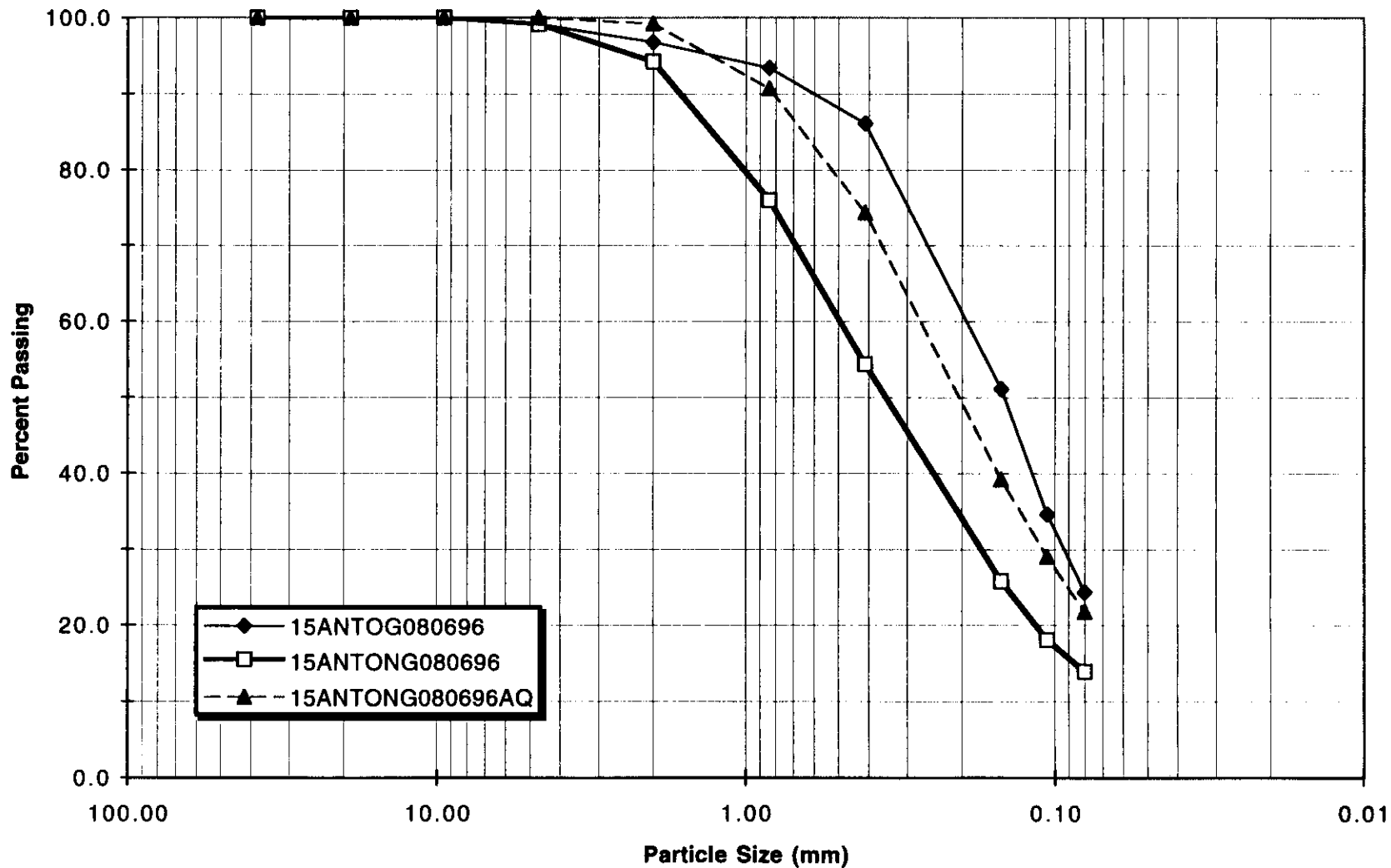
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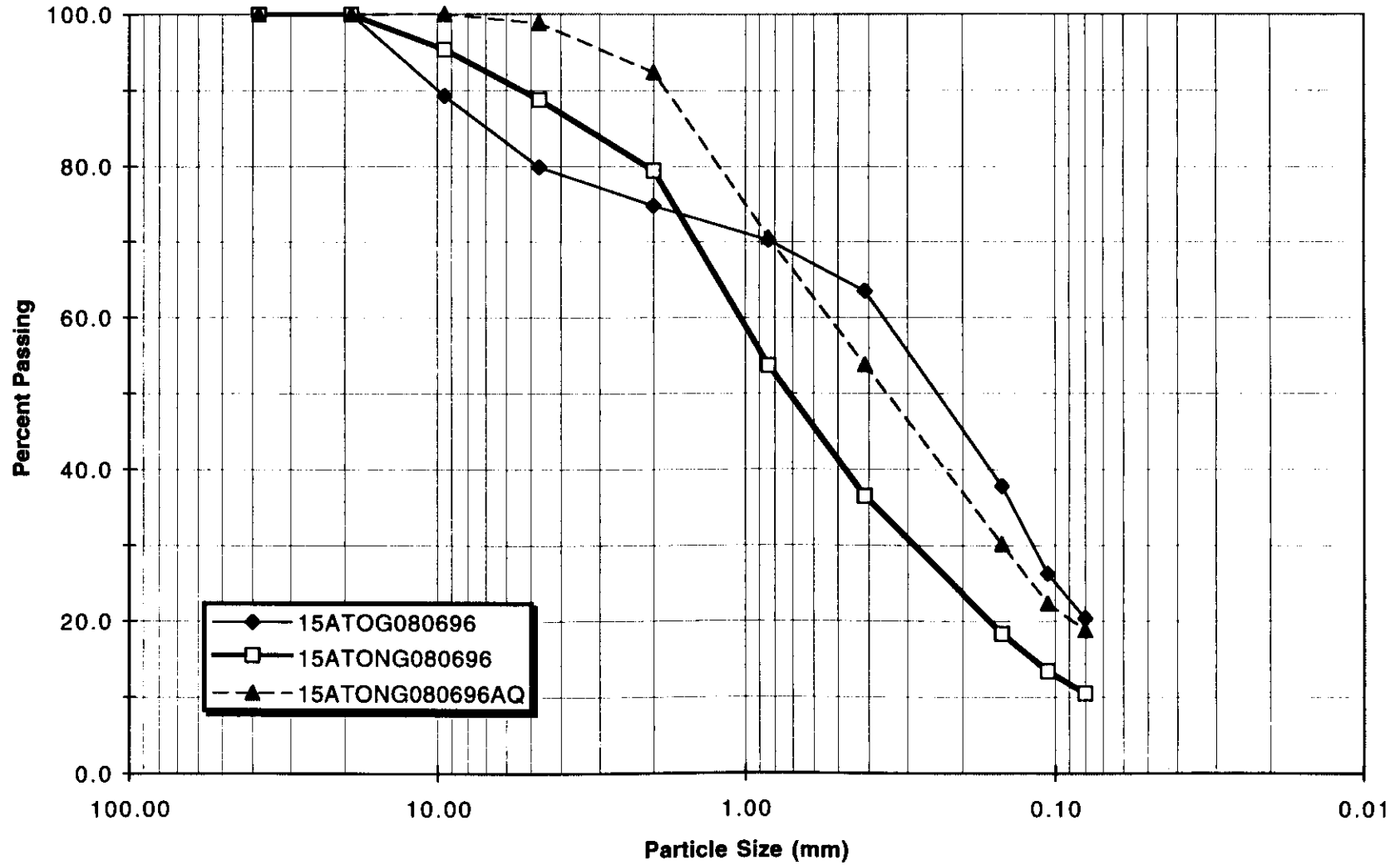
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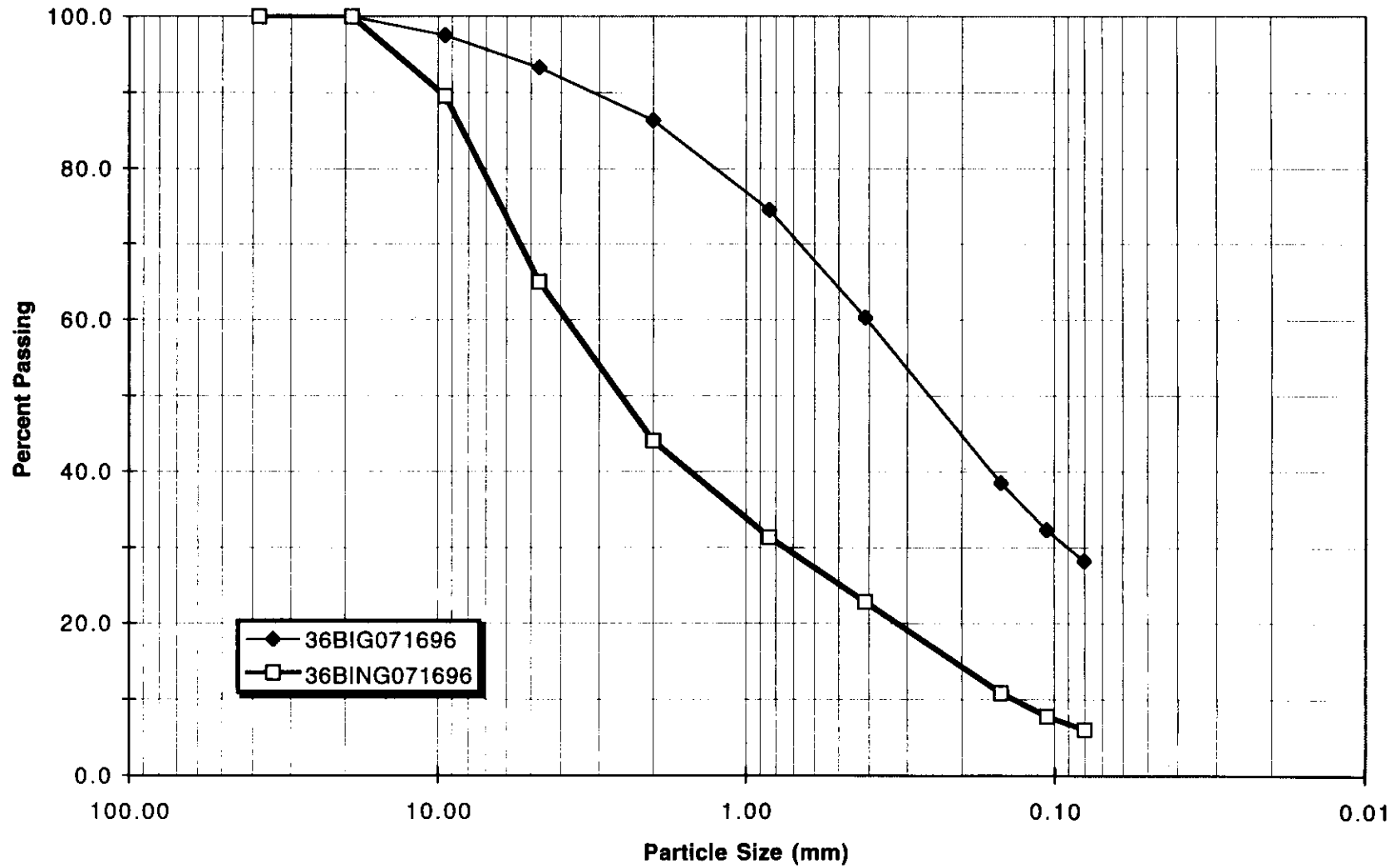
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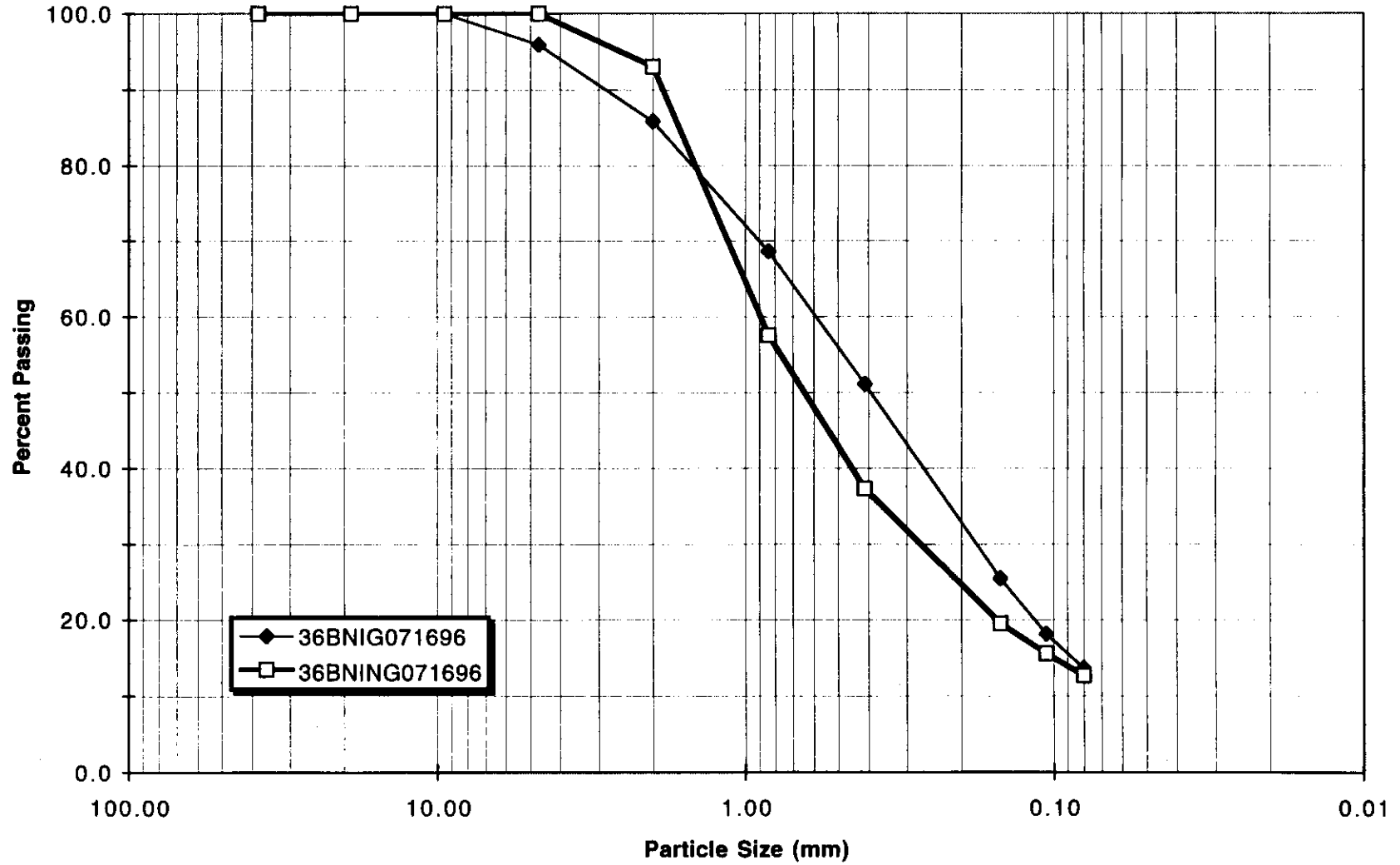
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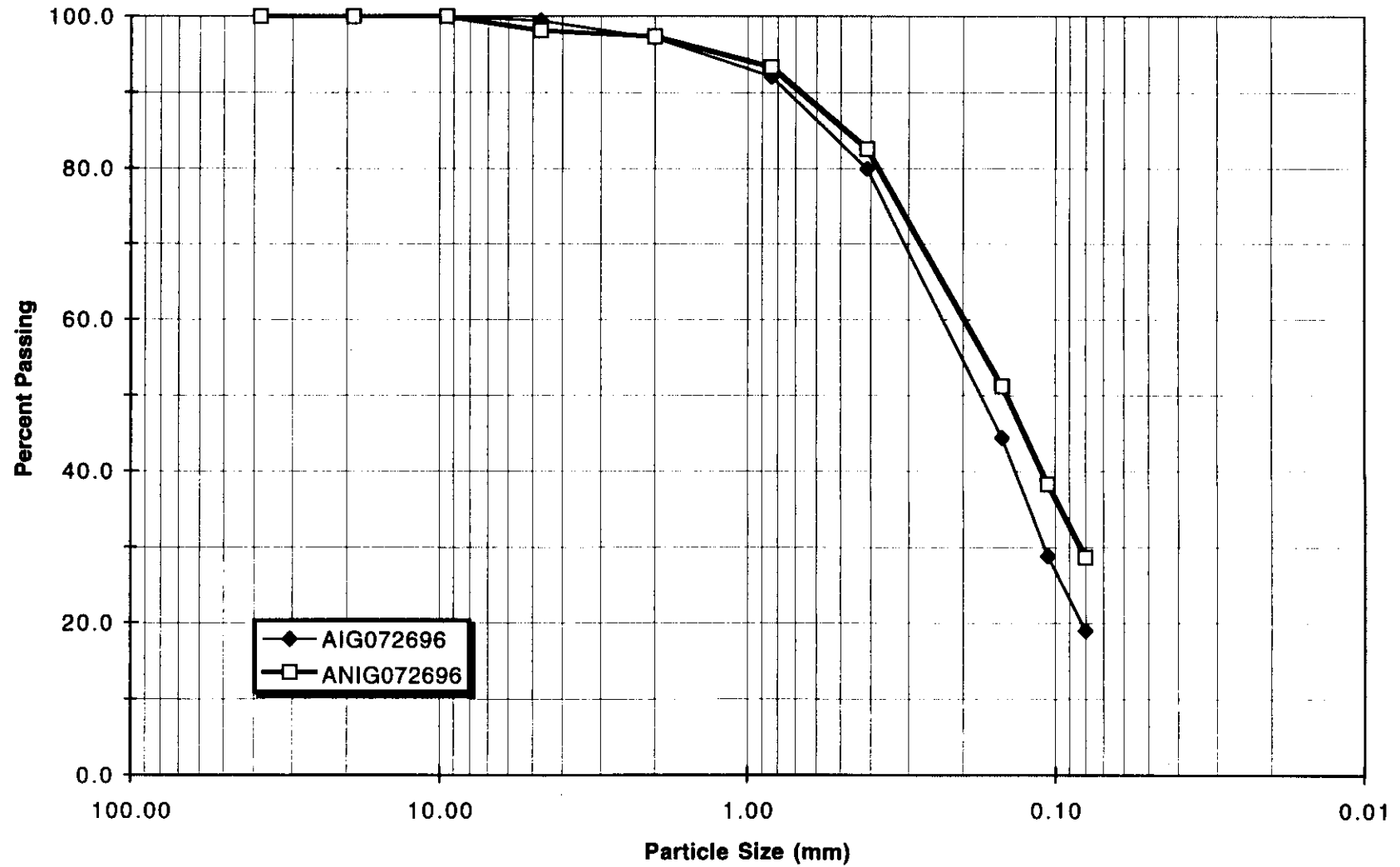
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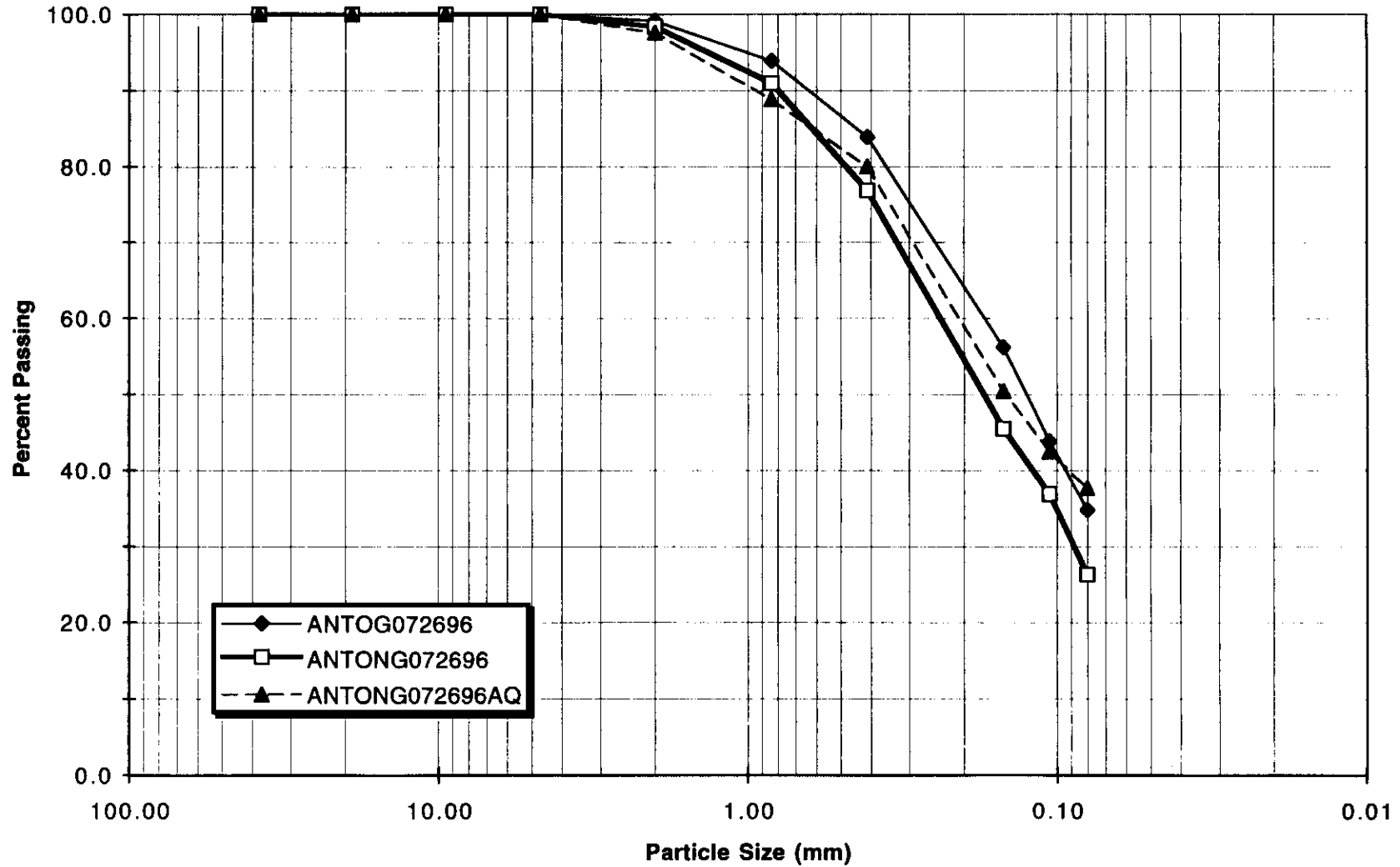
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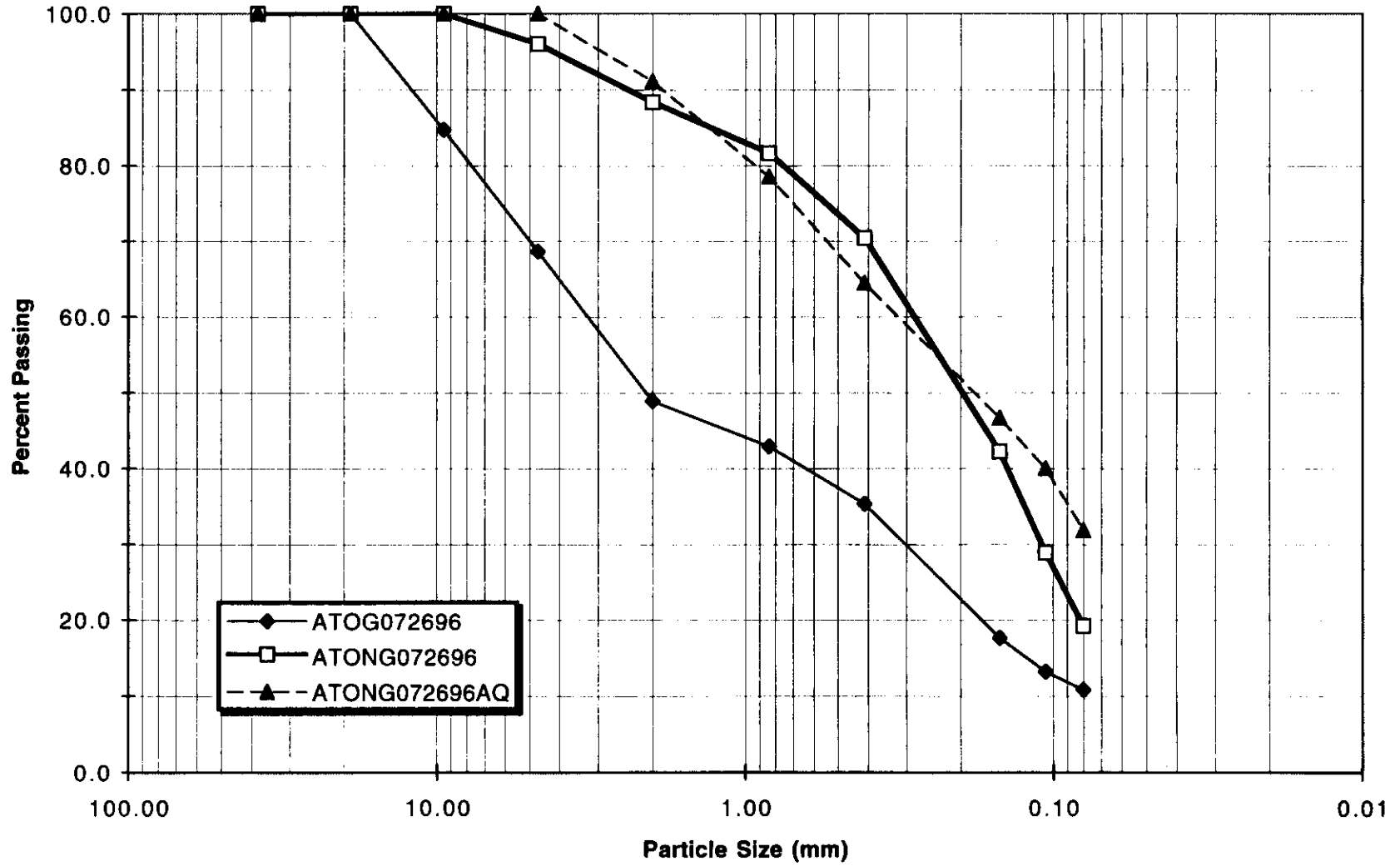
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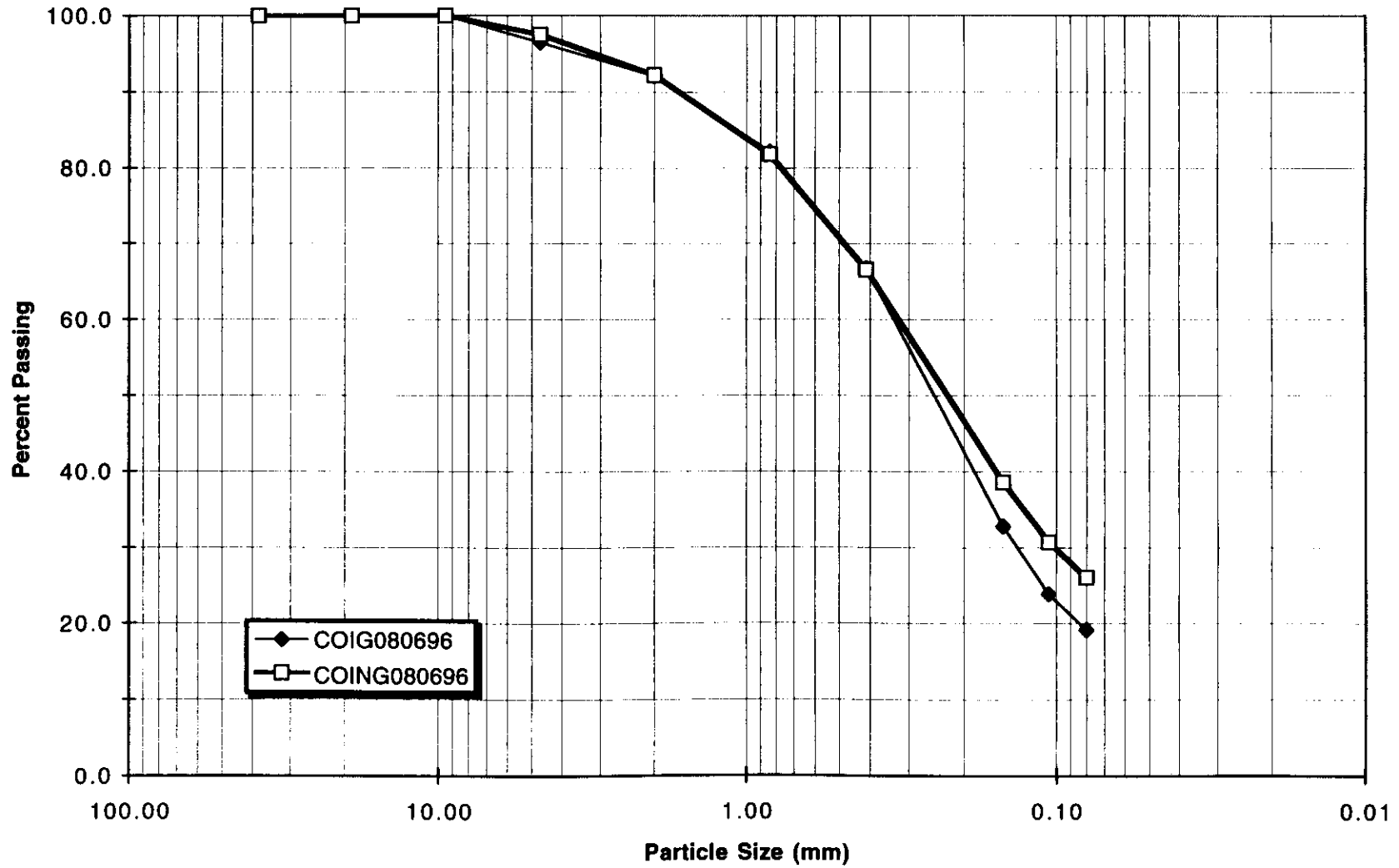
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## Street Sediment Loads Project



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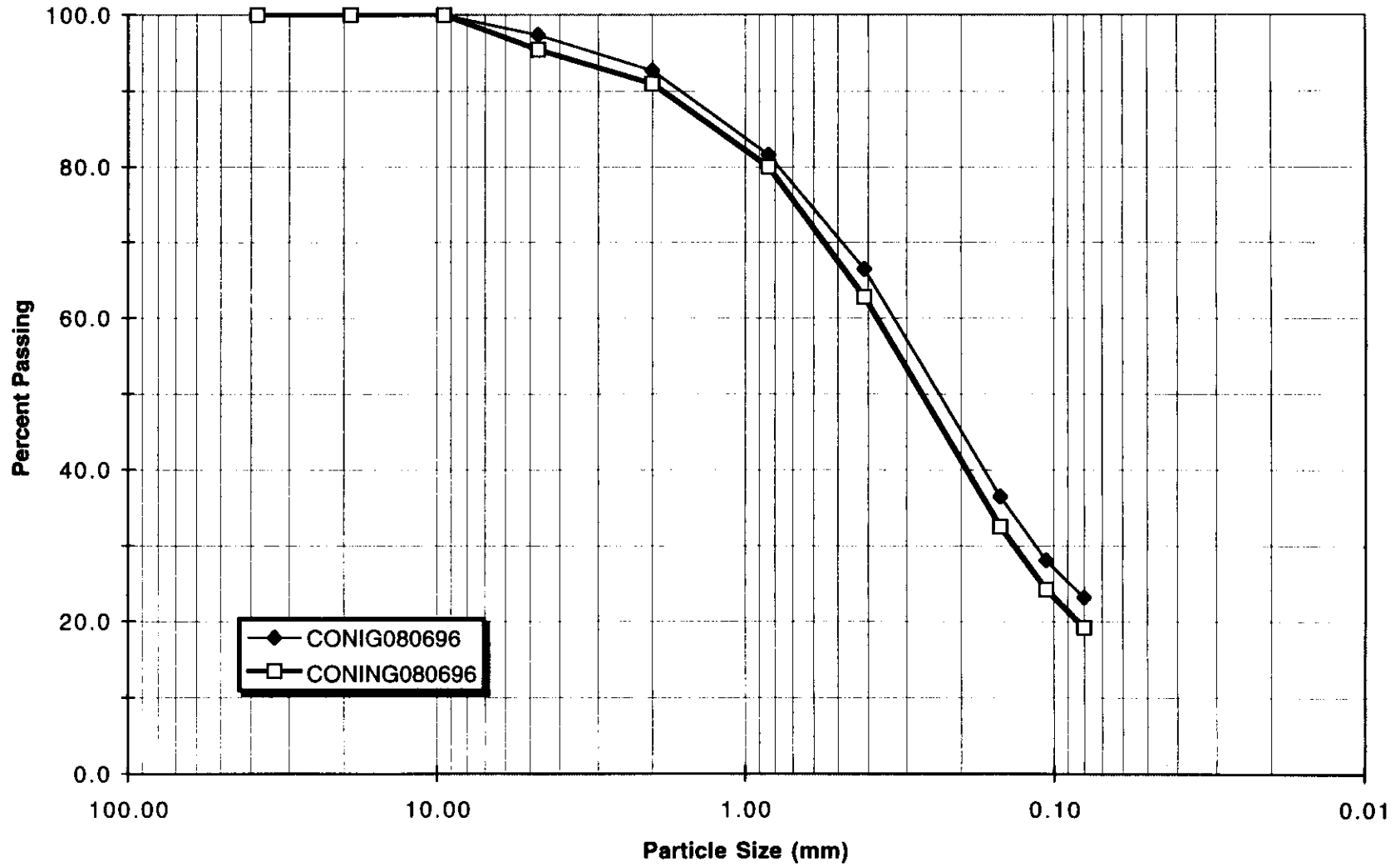
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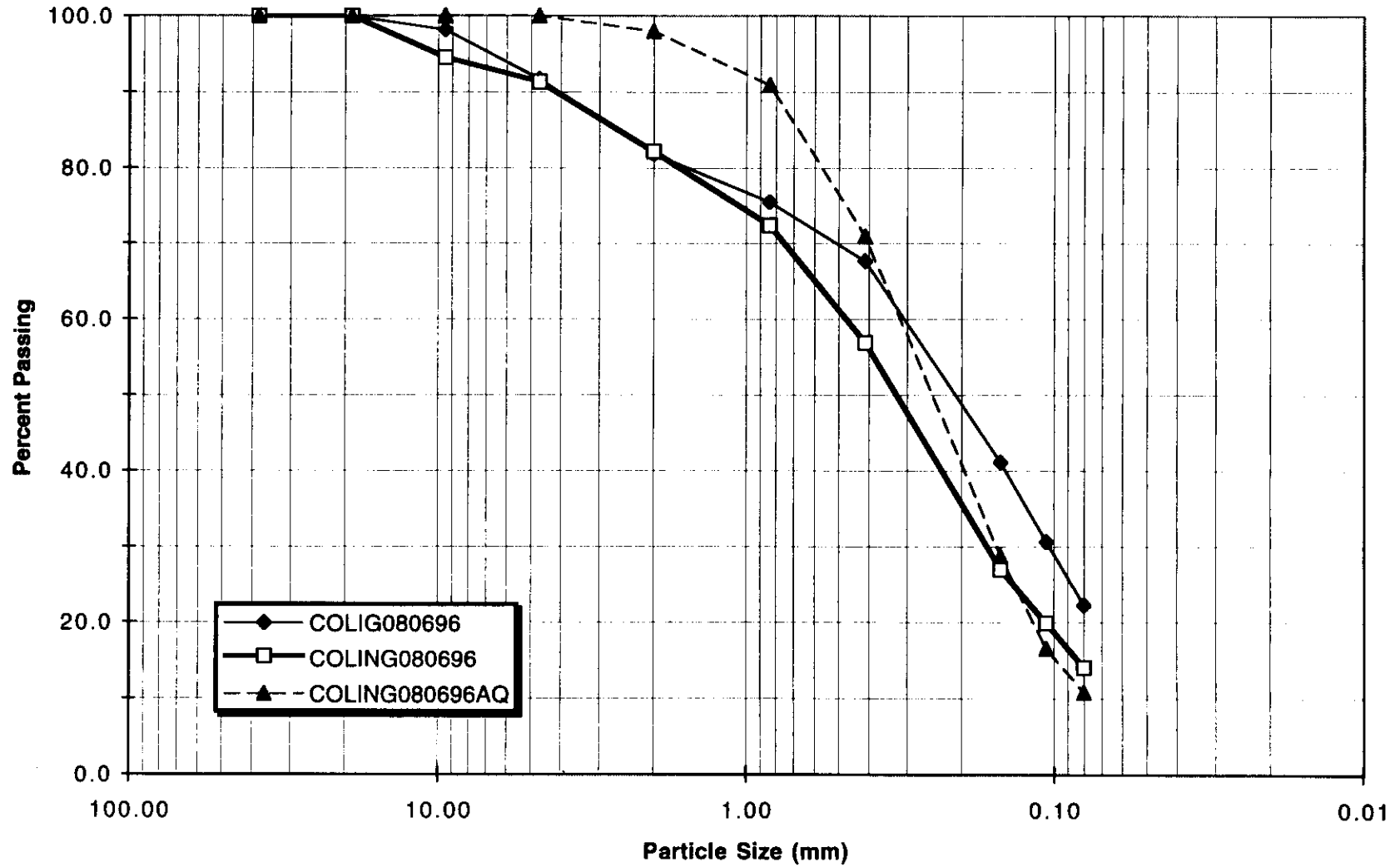
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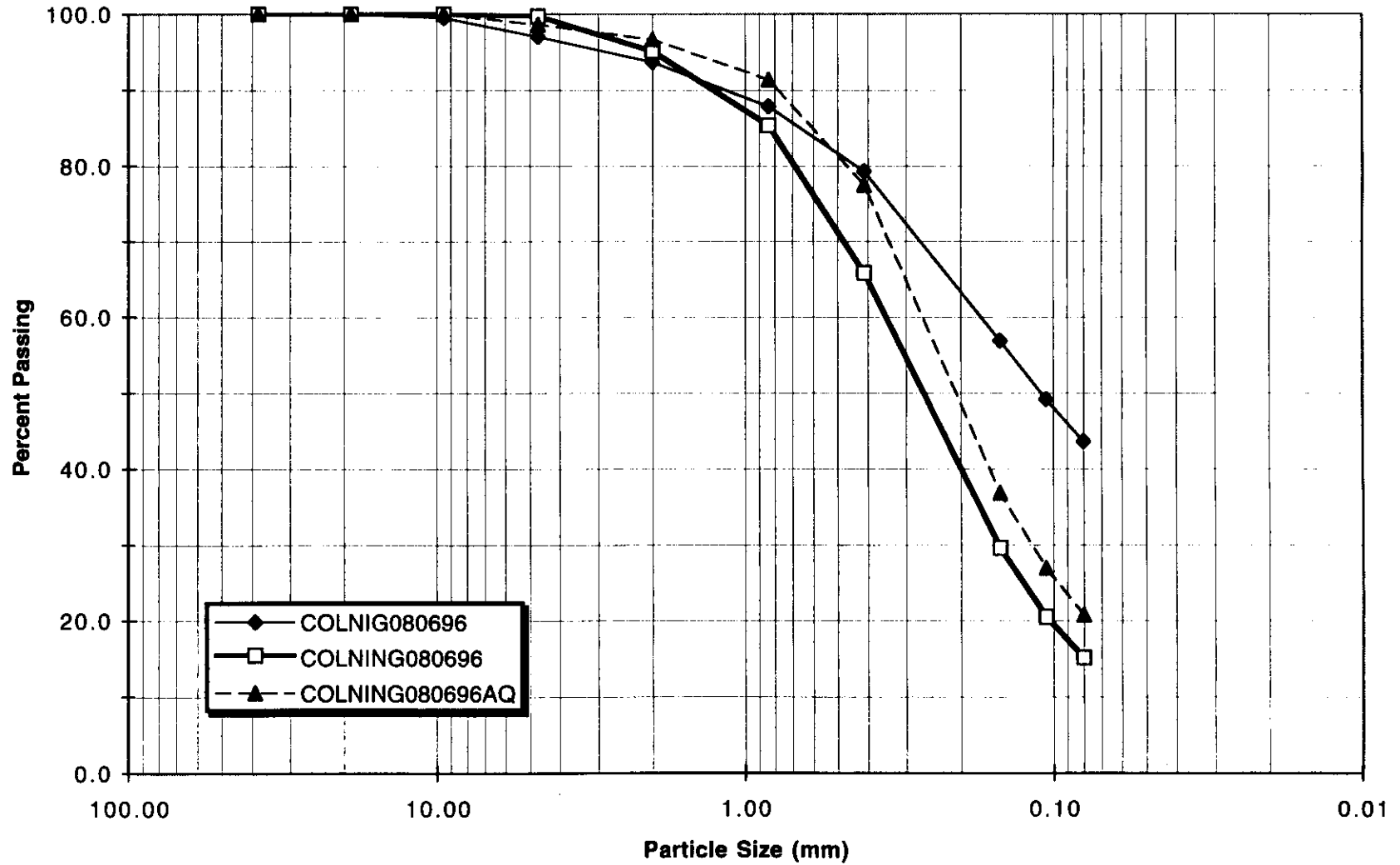
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## Street Sediment Loads Project



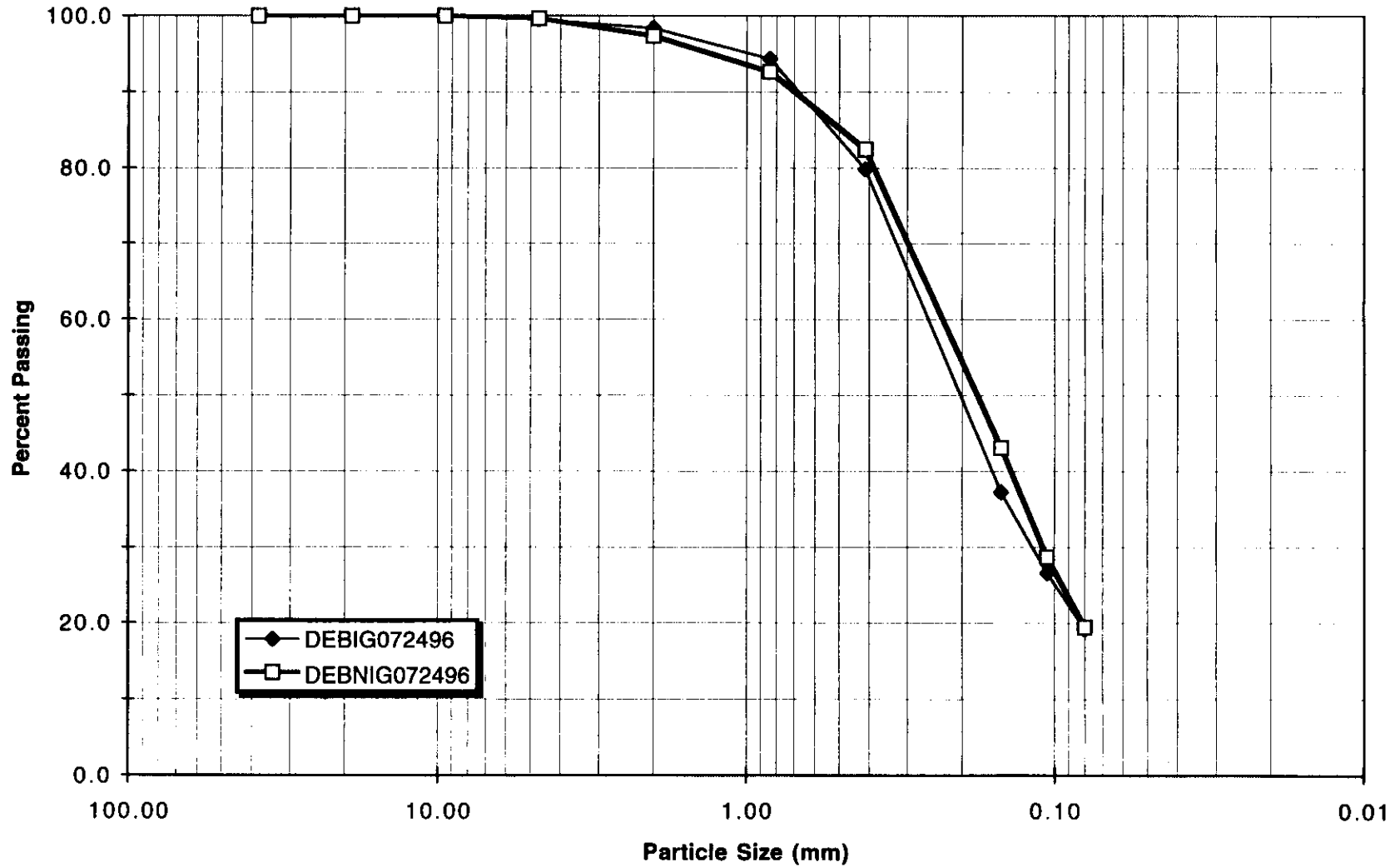
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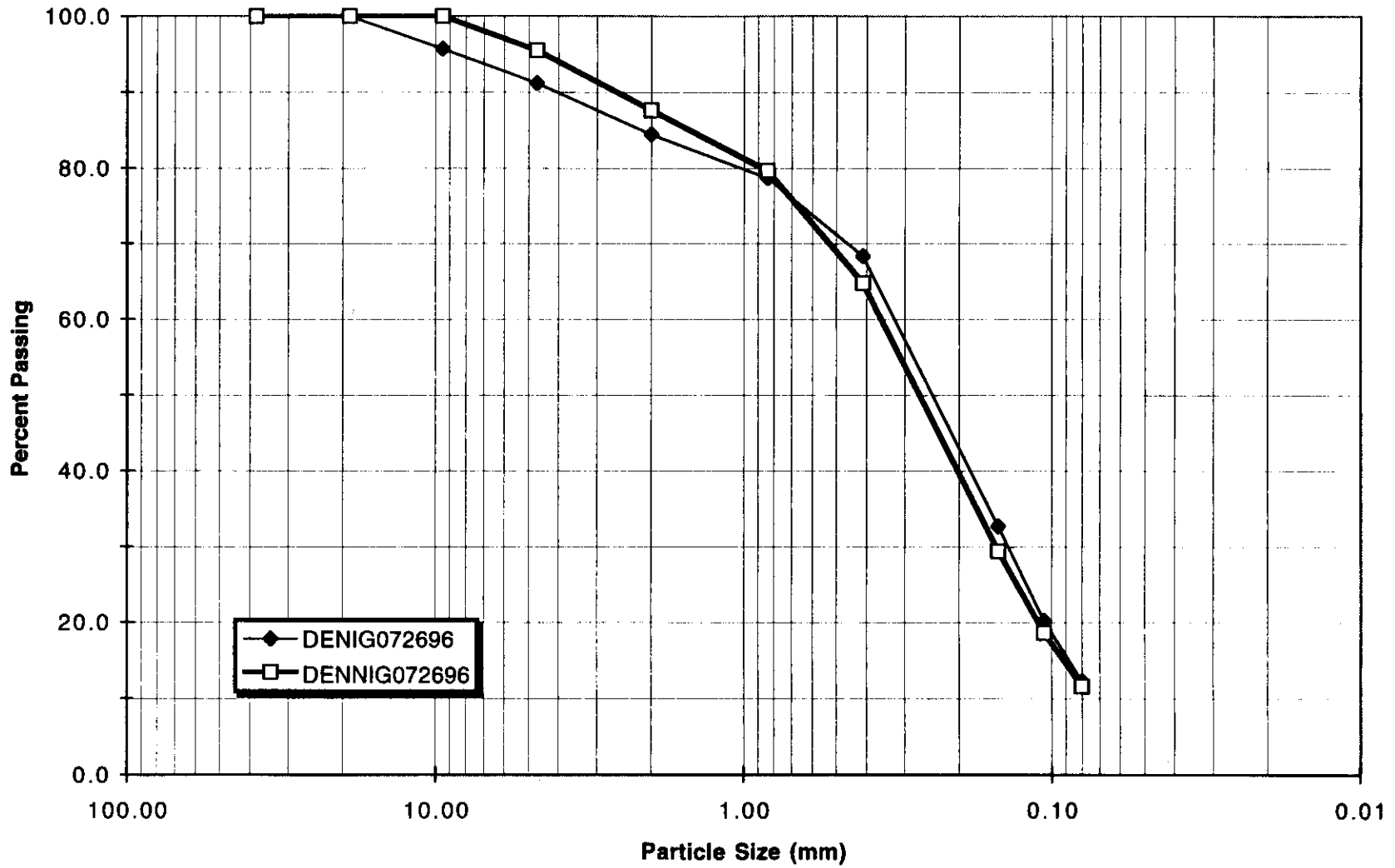
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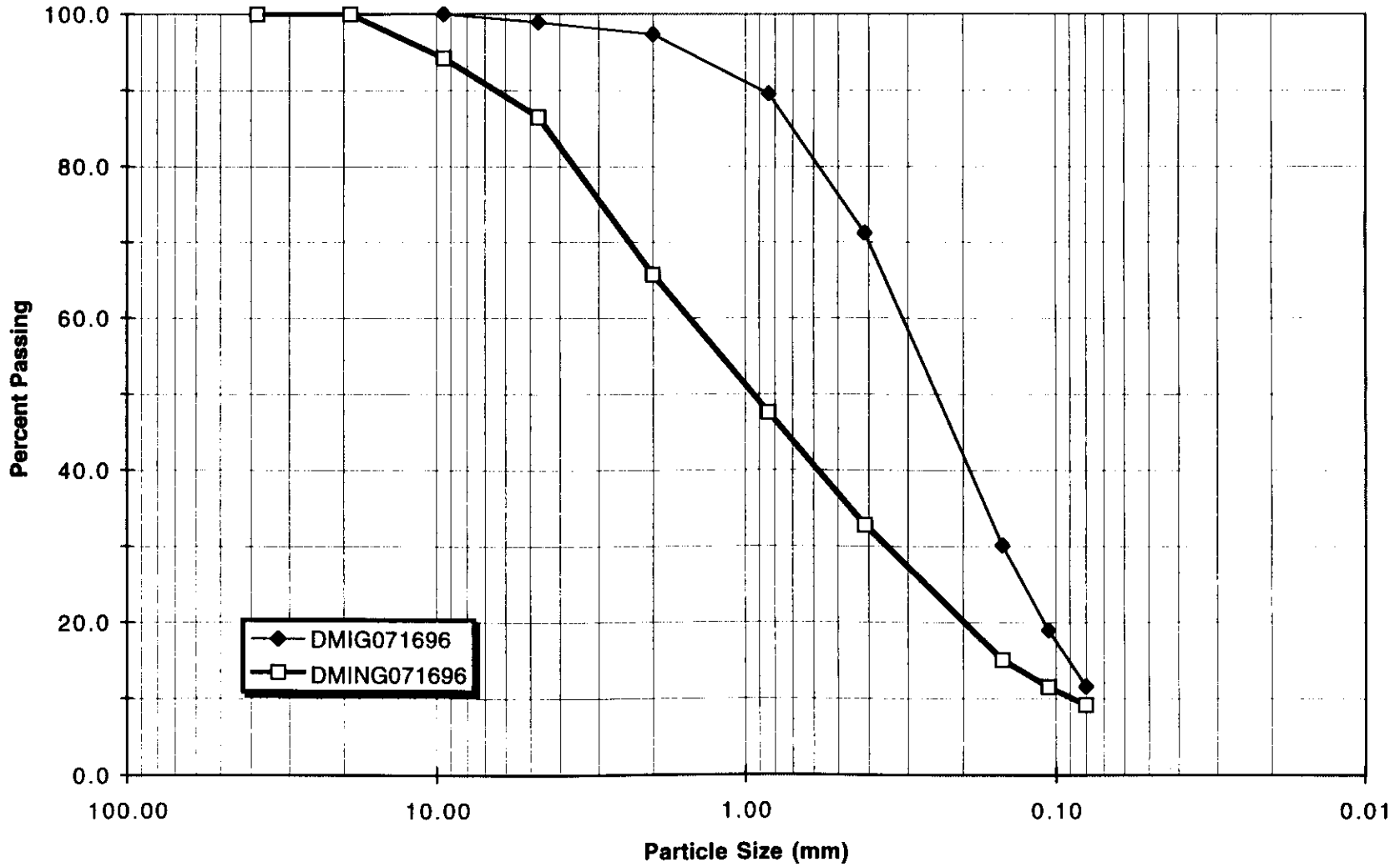
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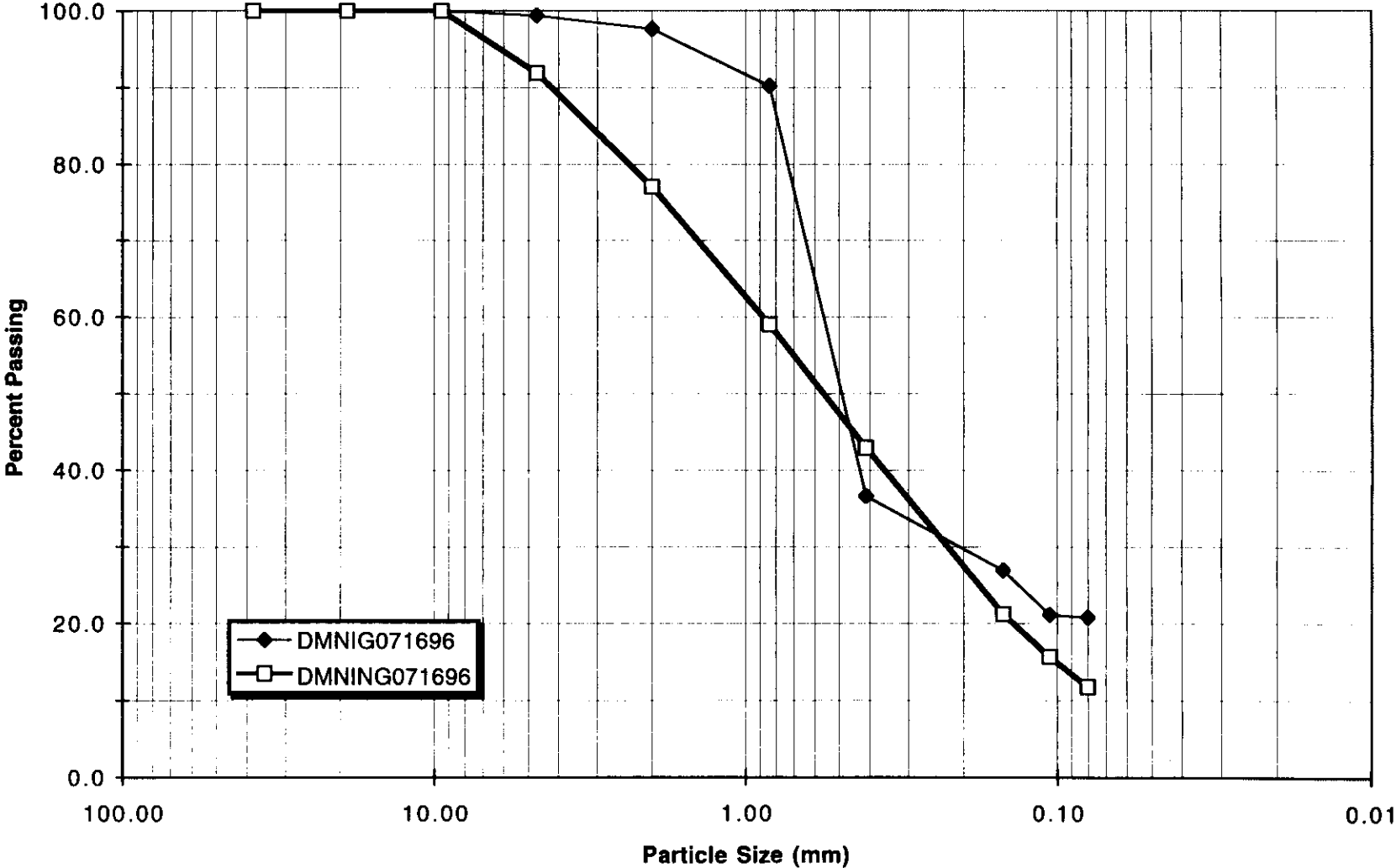
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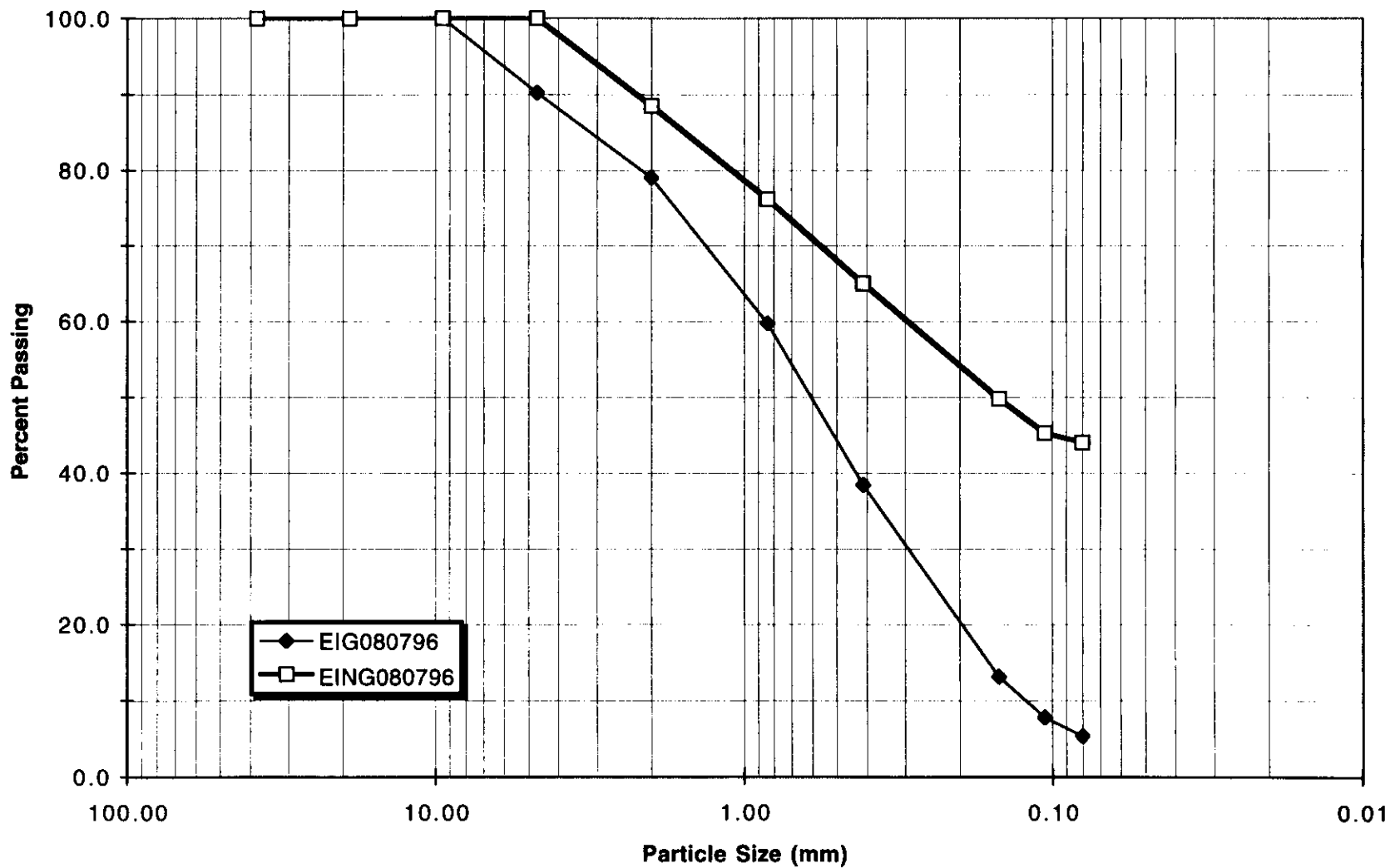
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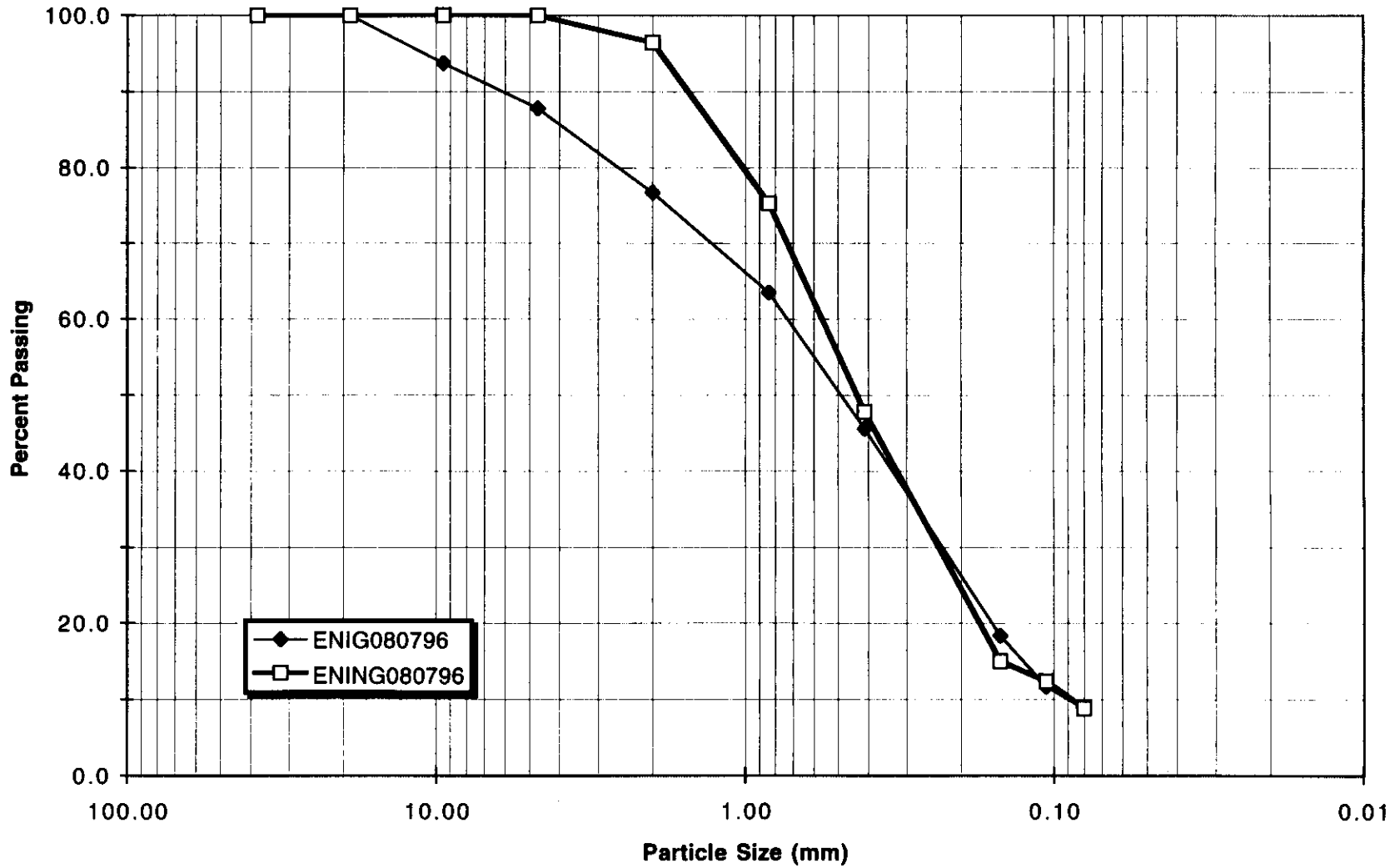
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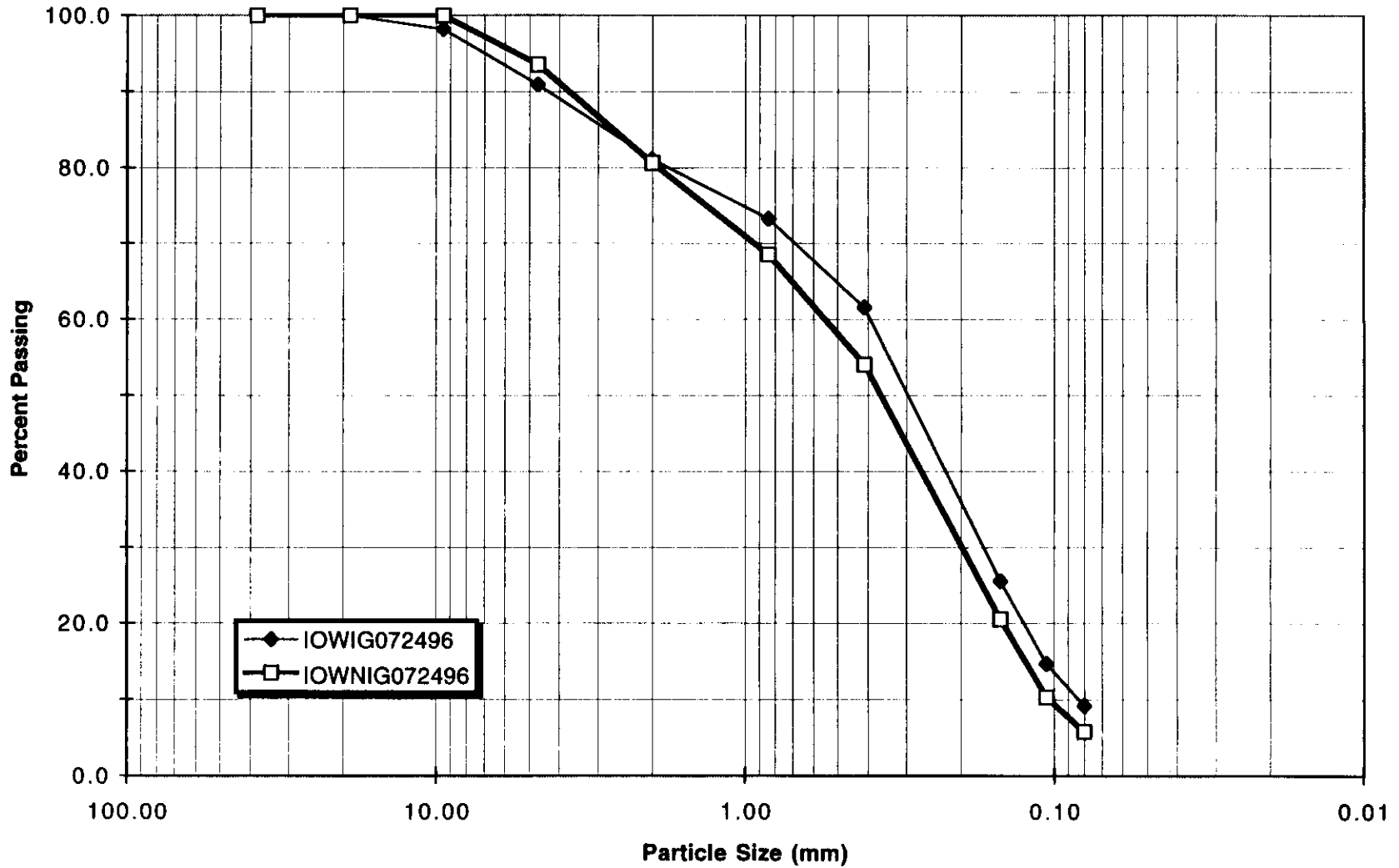
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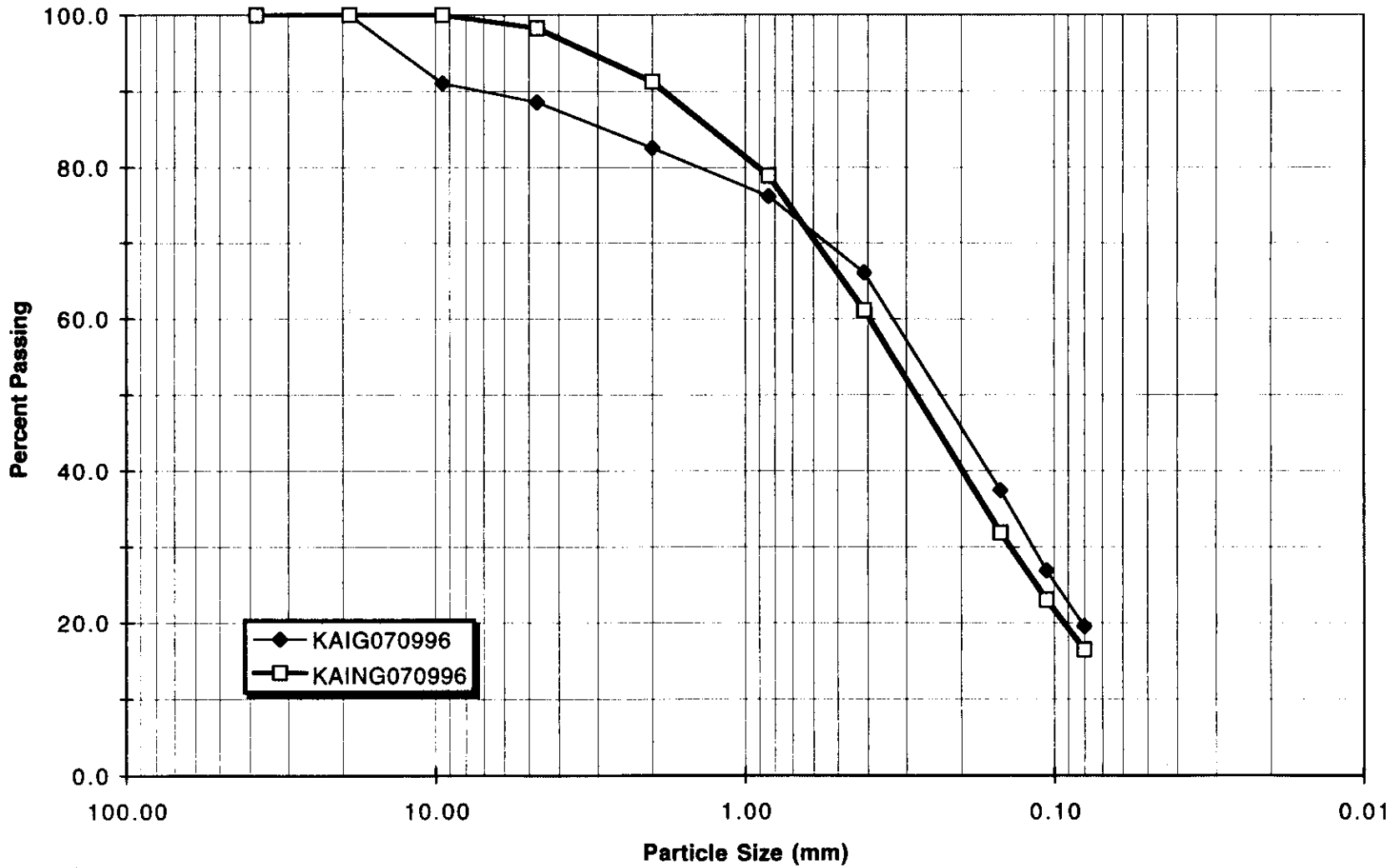
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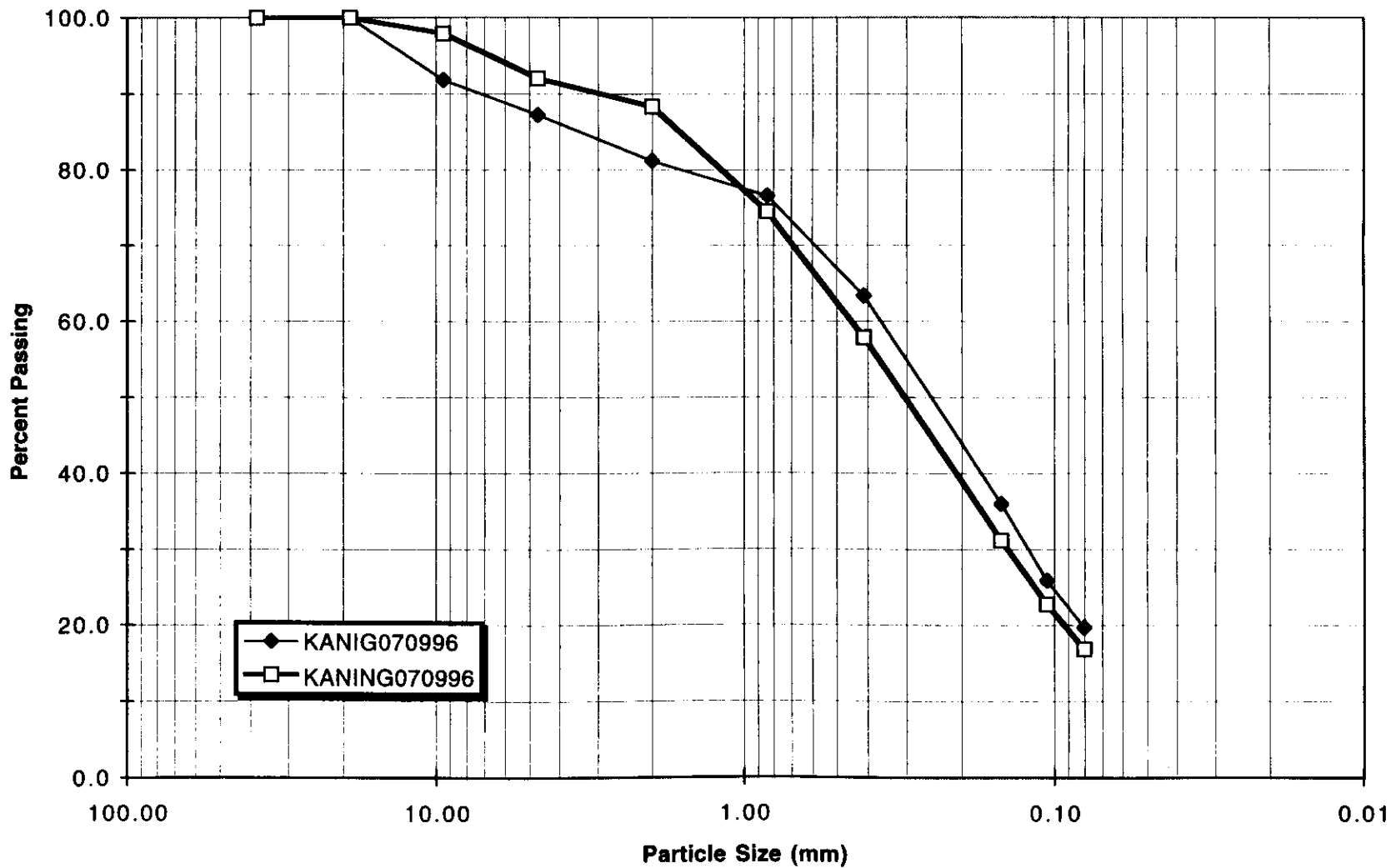
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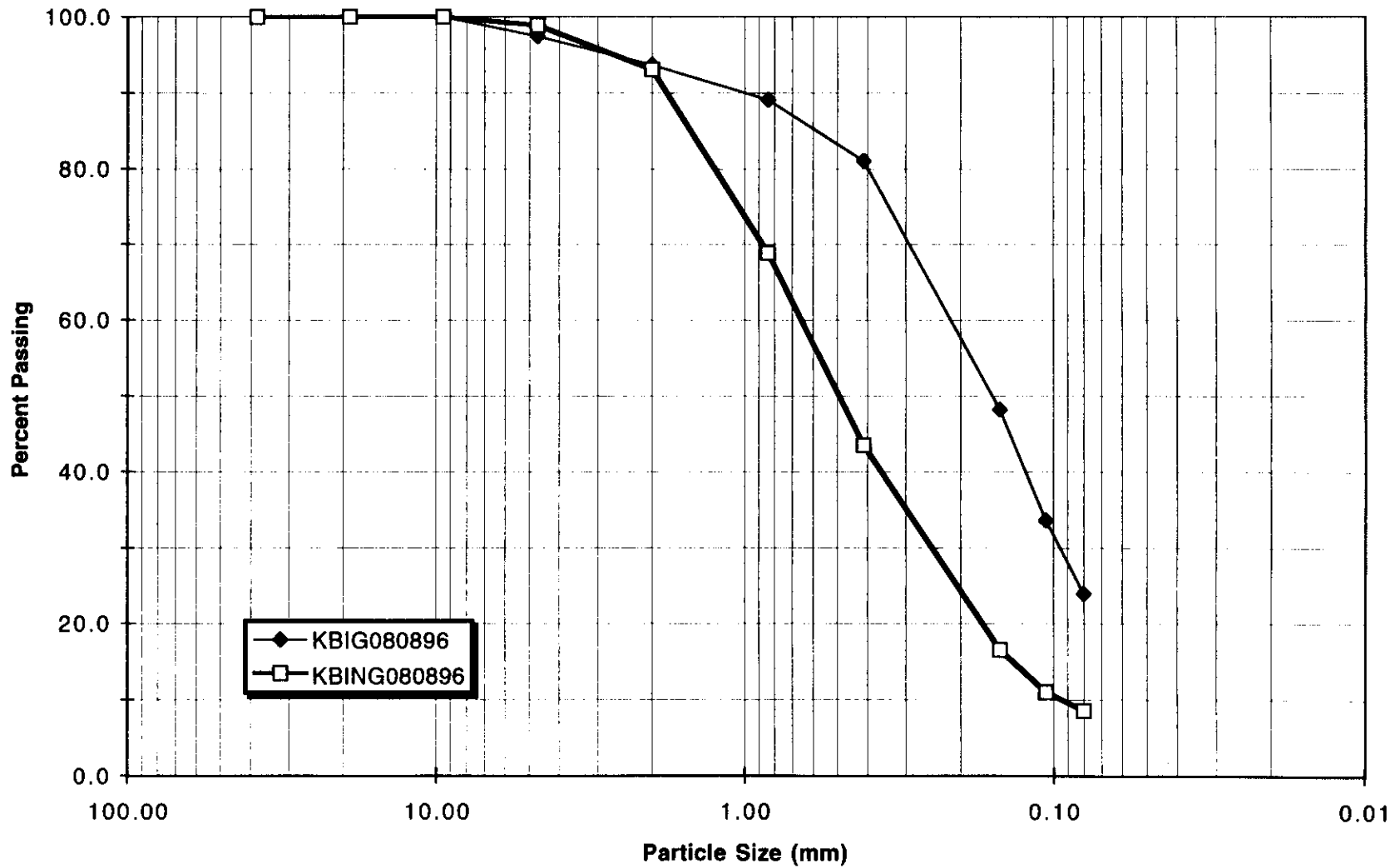
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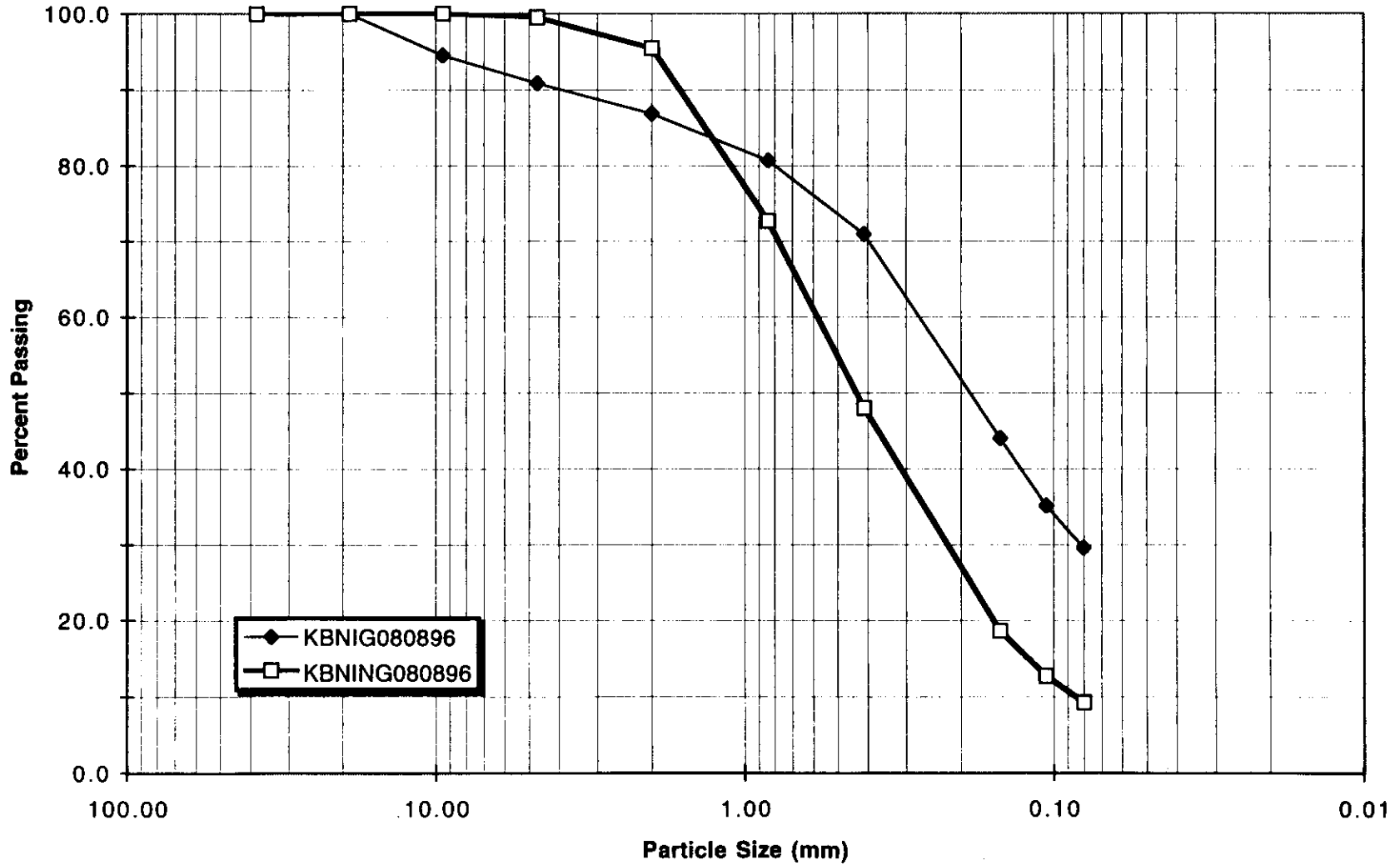
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## Street Sediment Loads Project



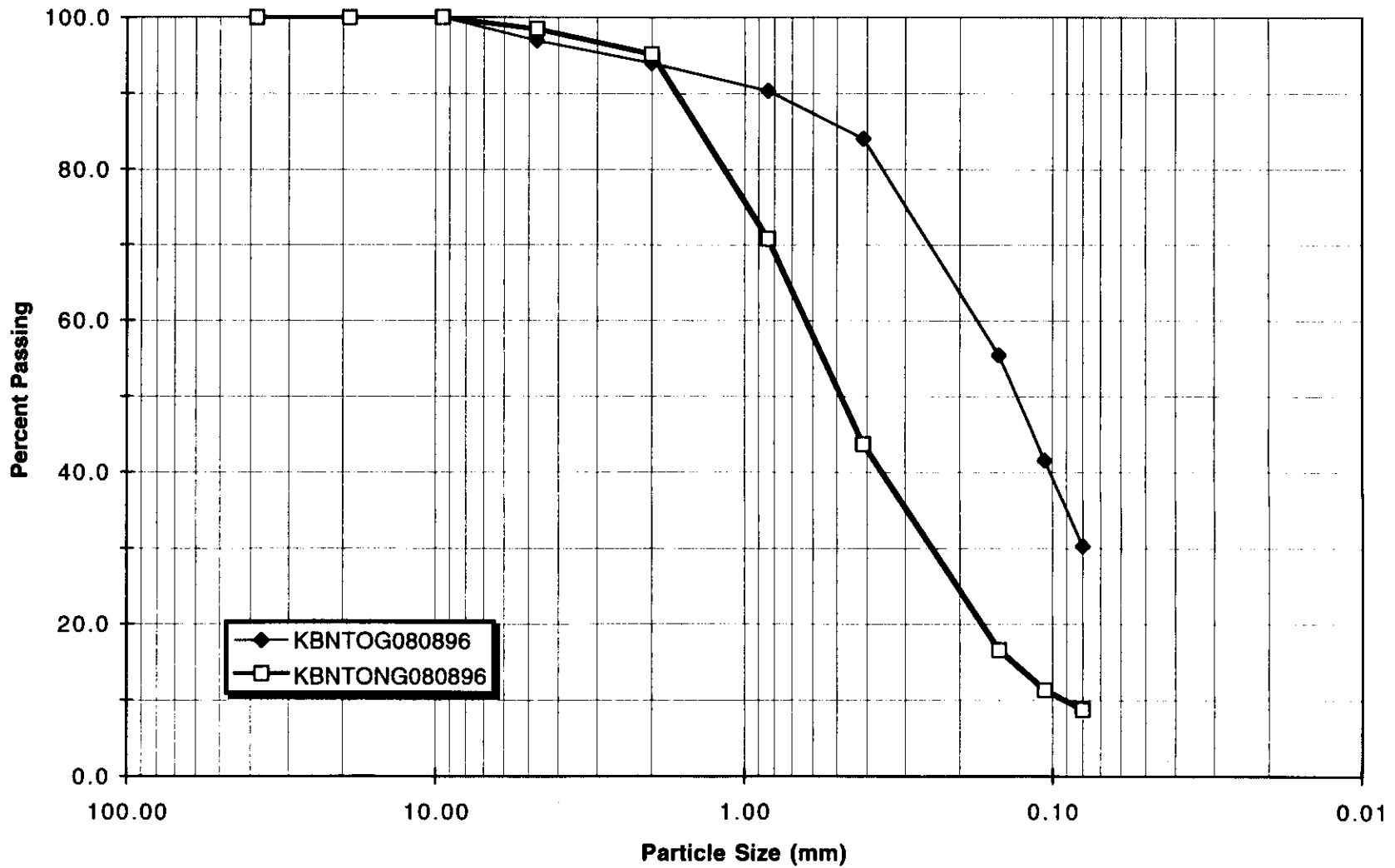
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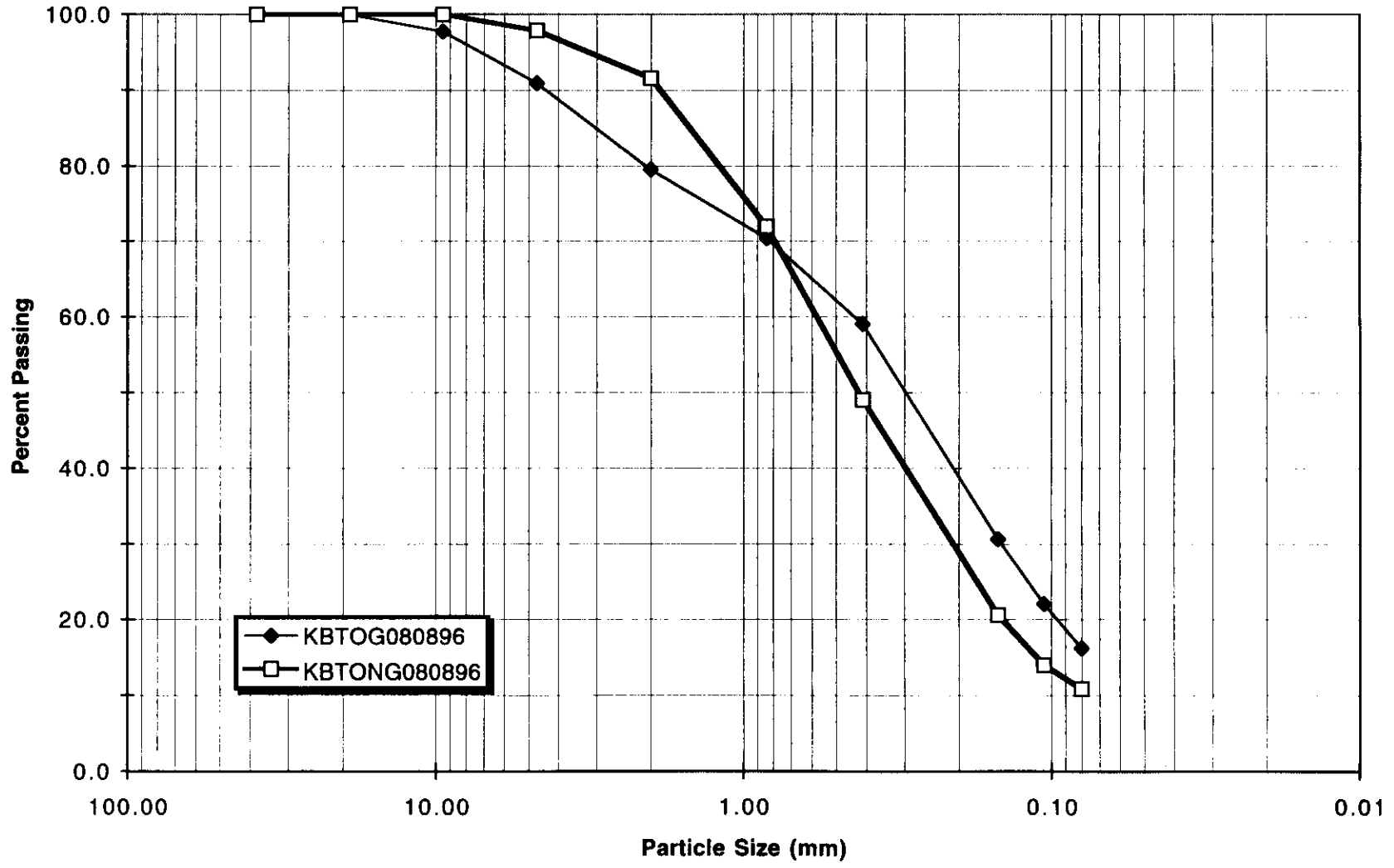
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## Street Sediment Loads Project



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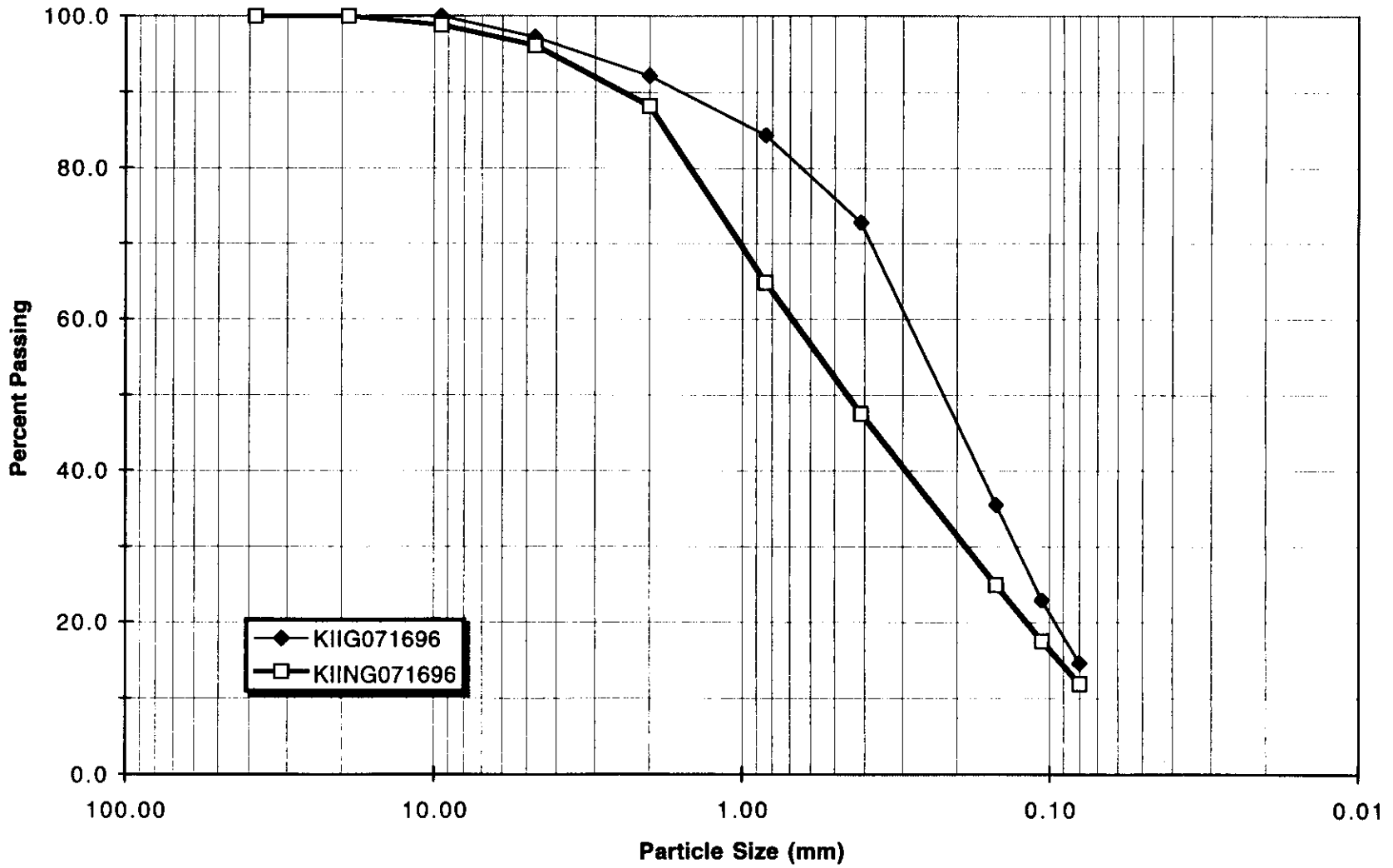
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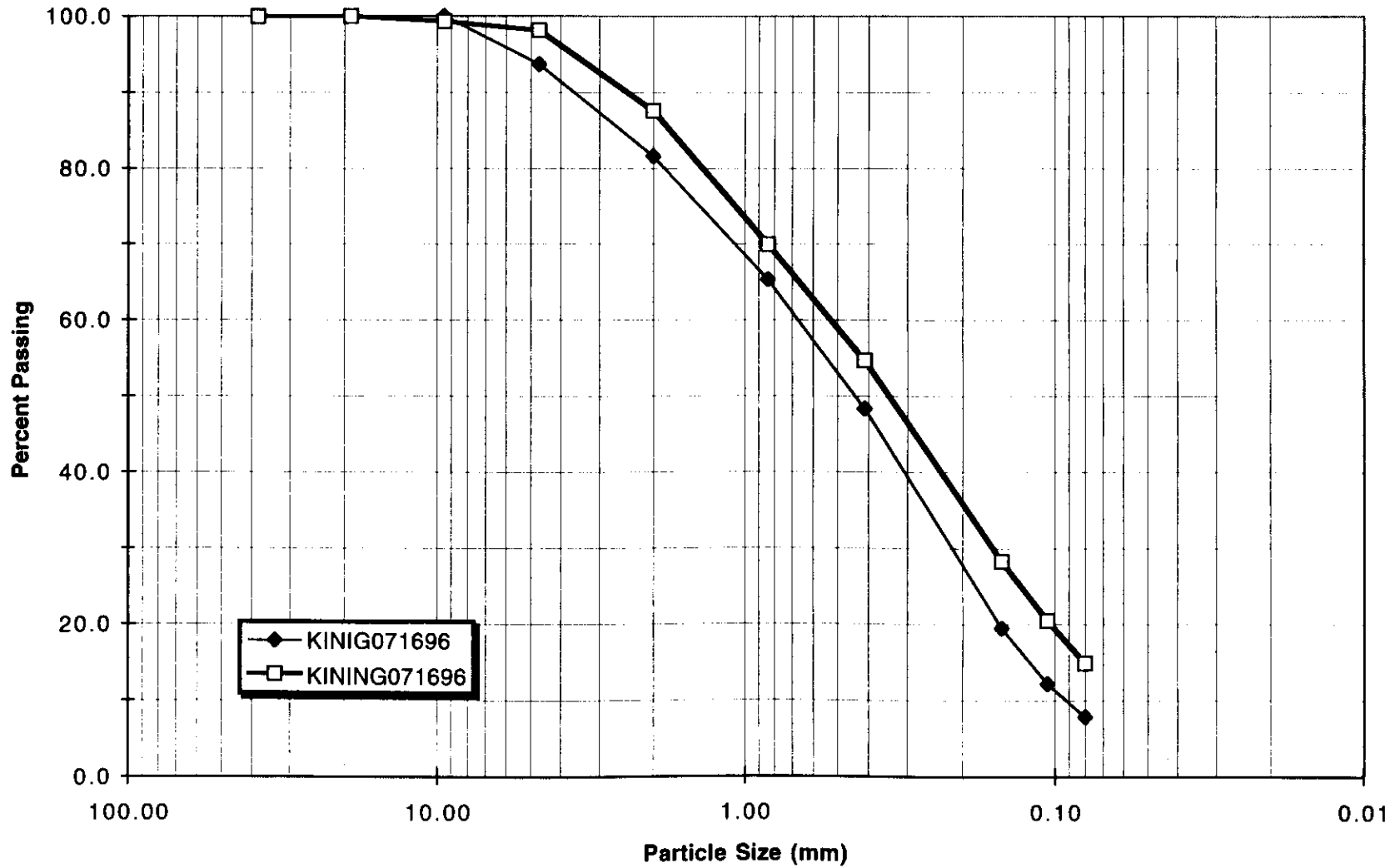
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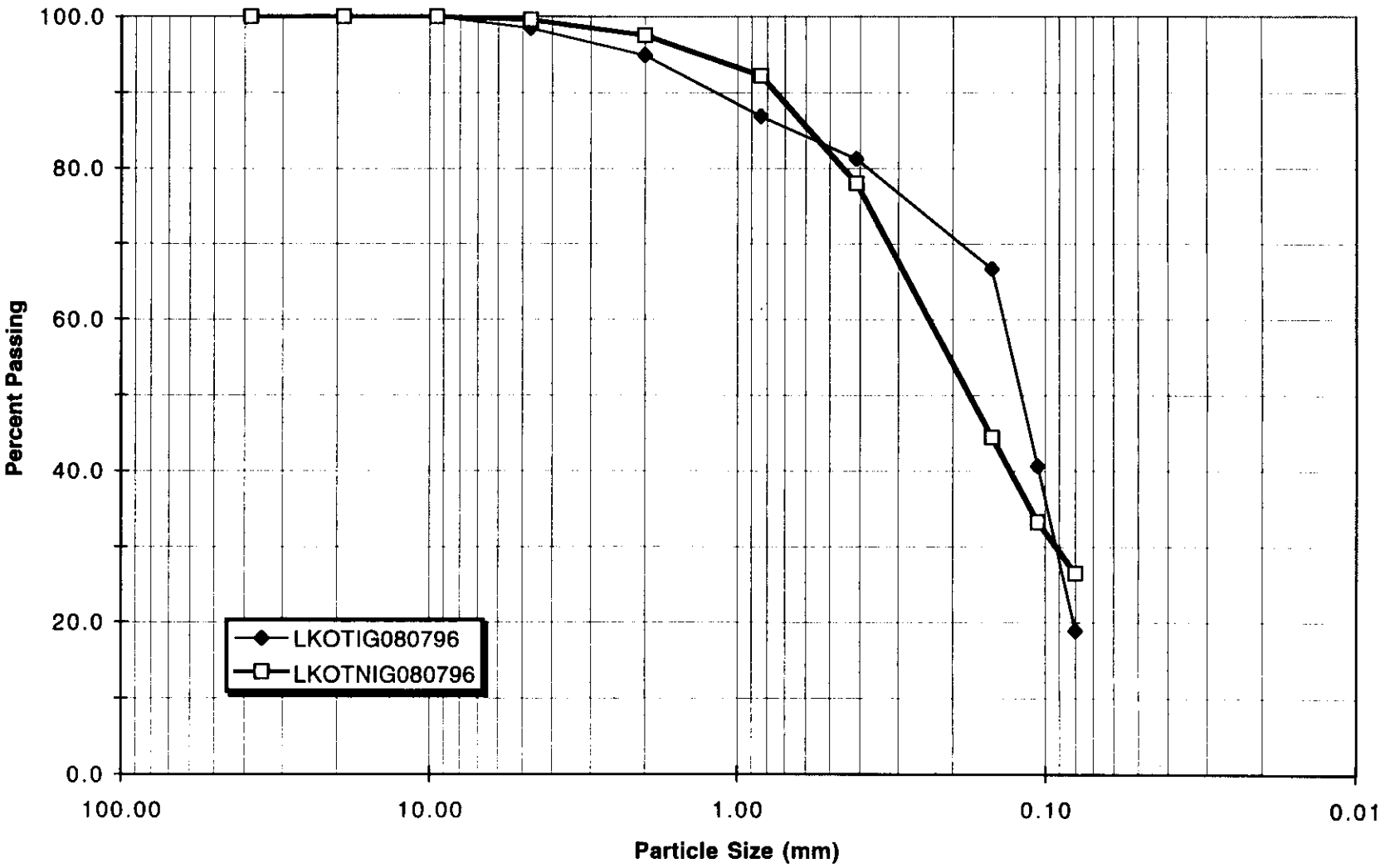
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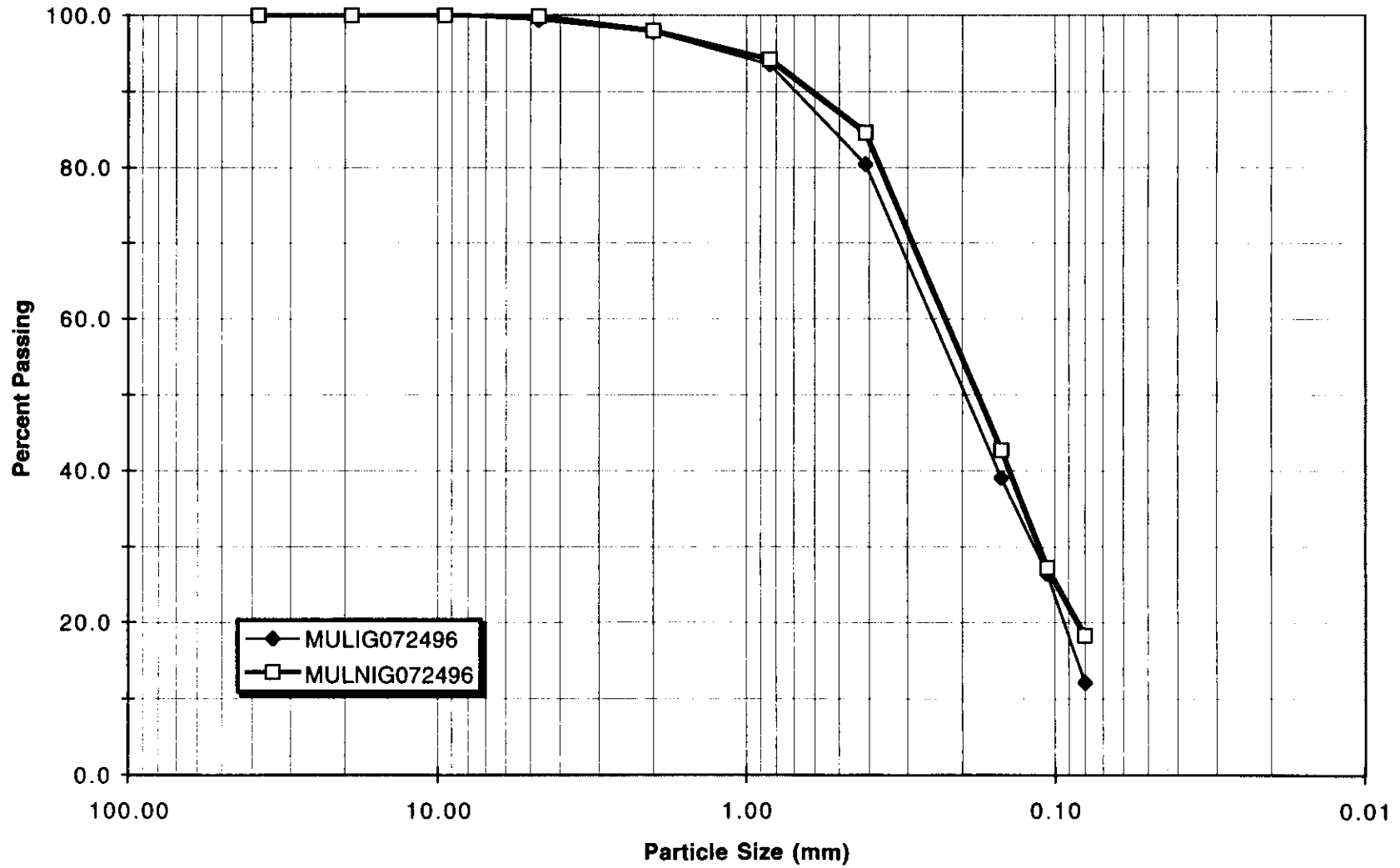
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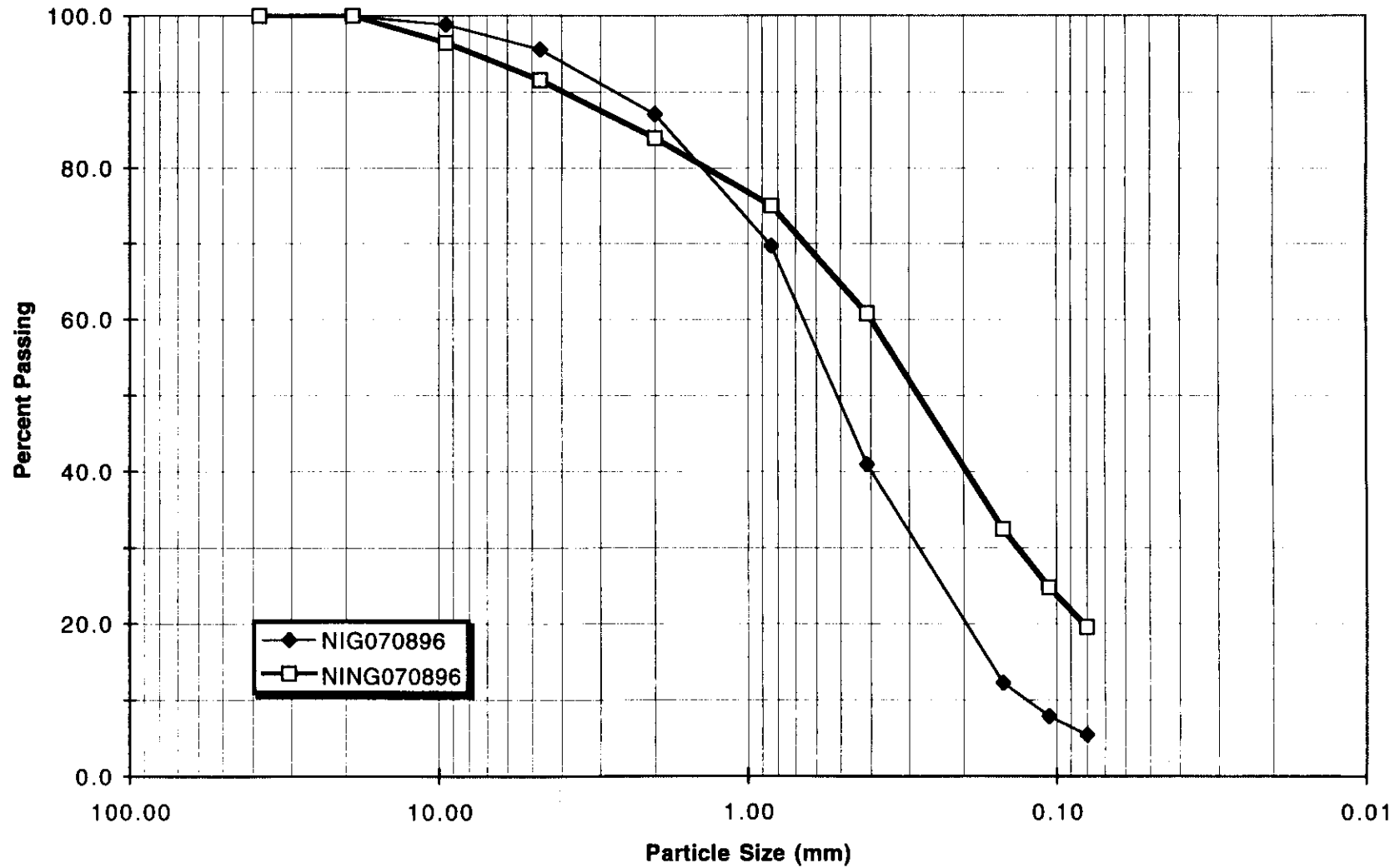
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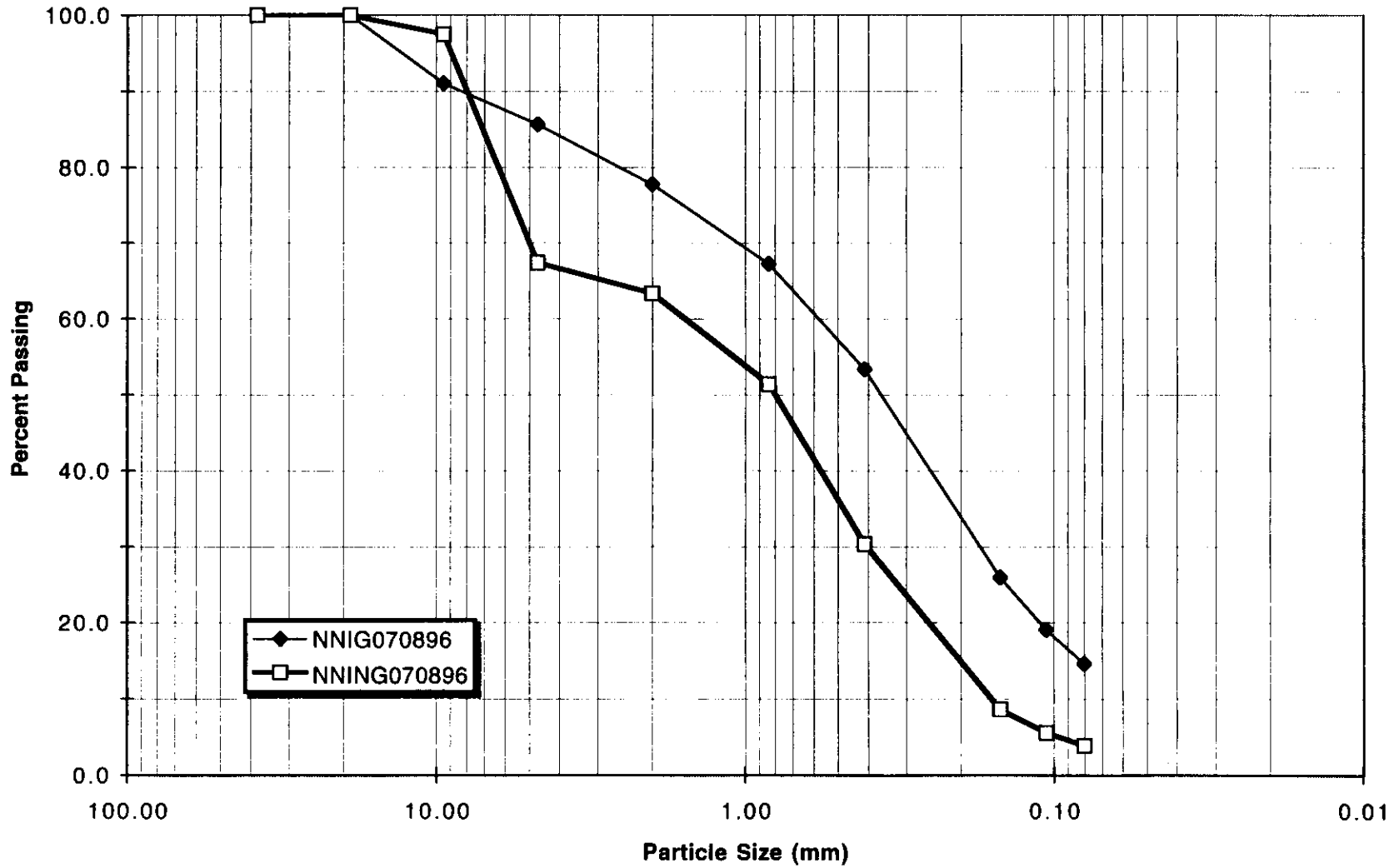
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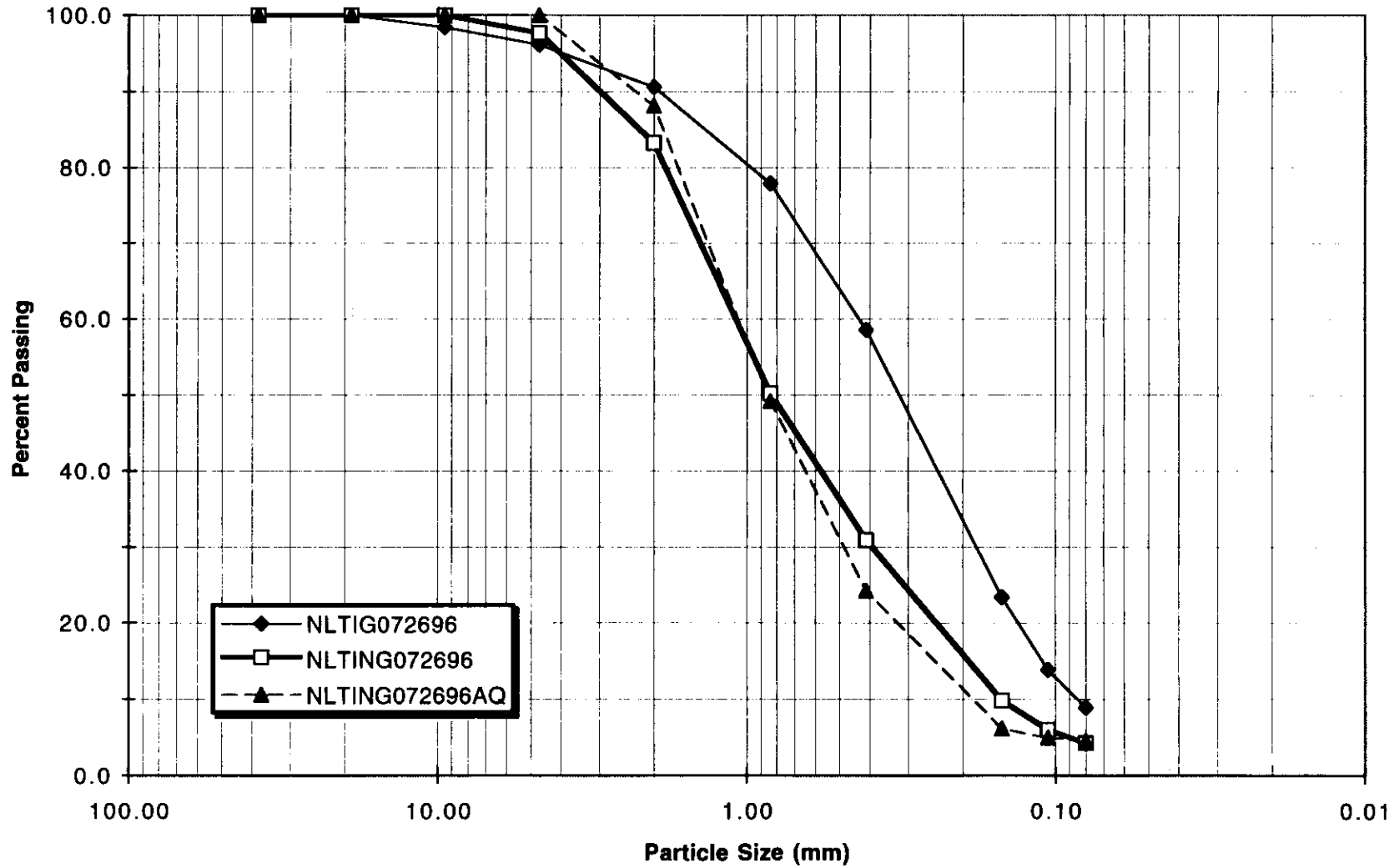
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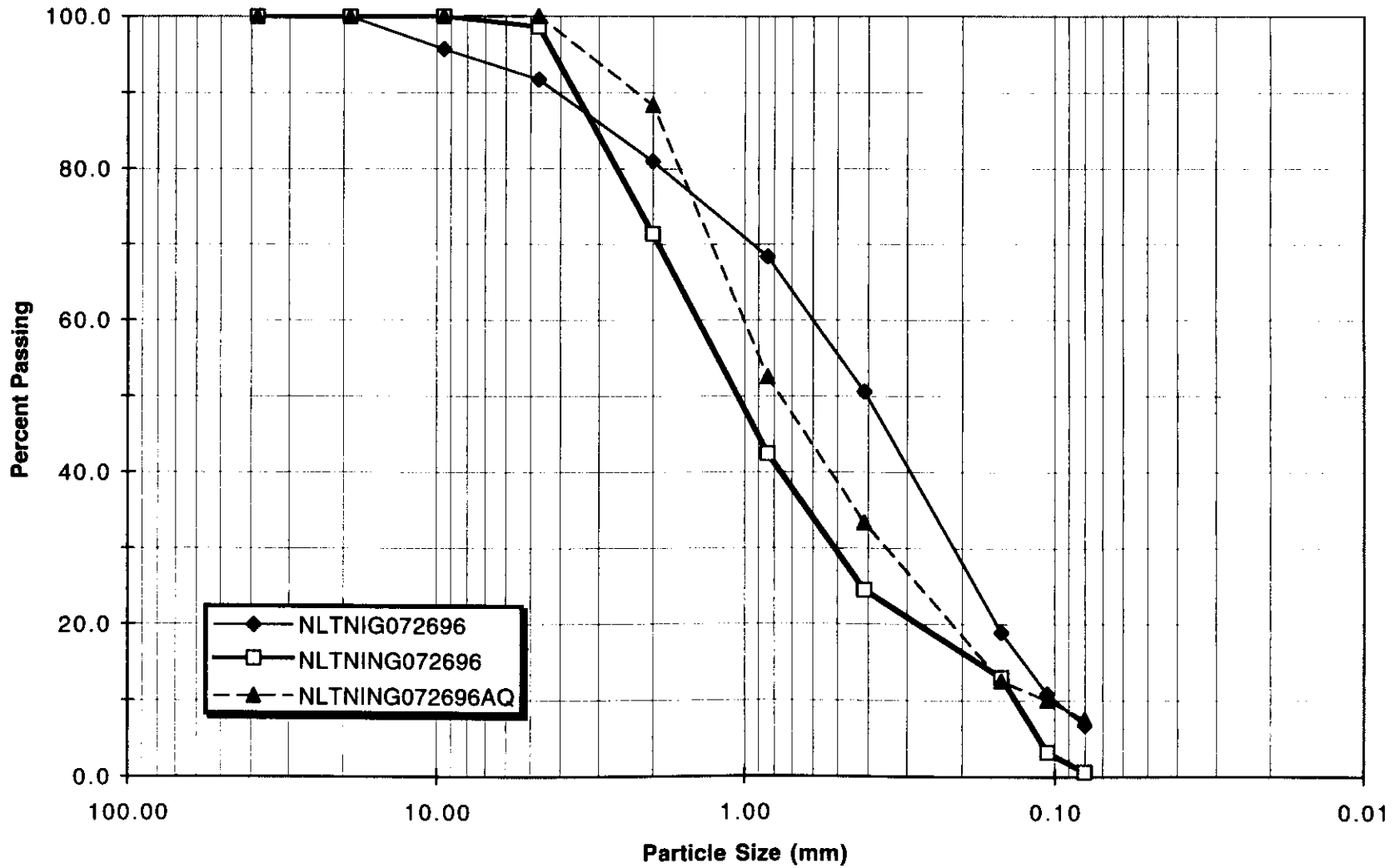
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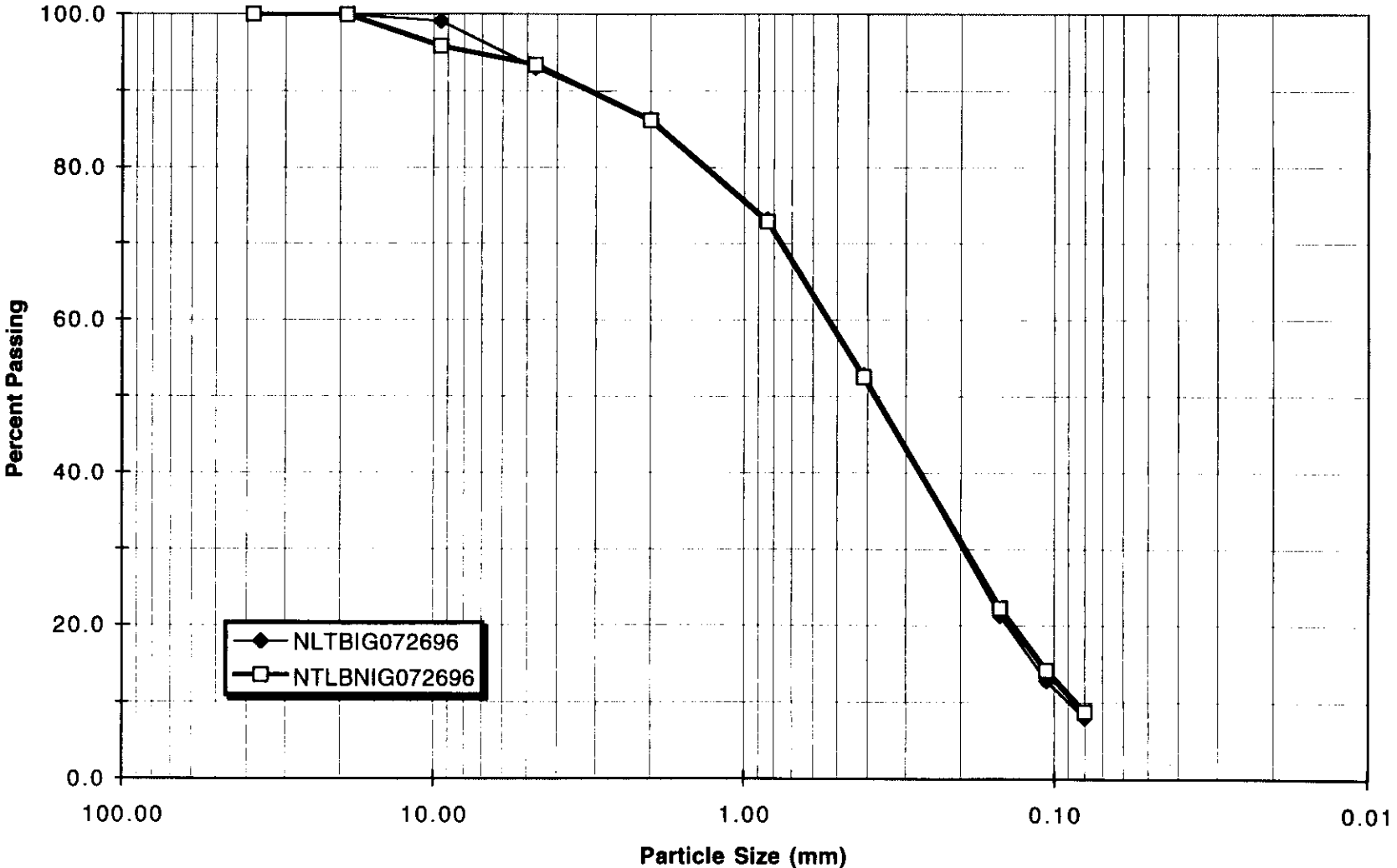
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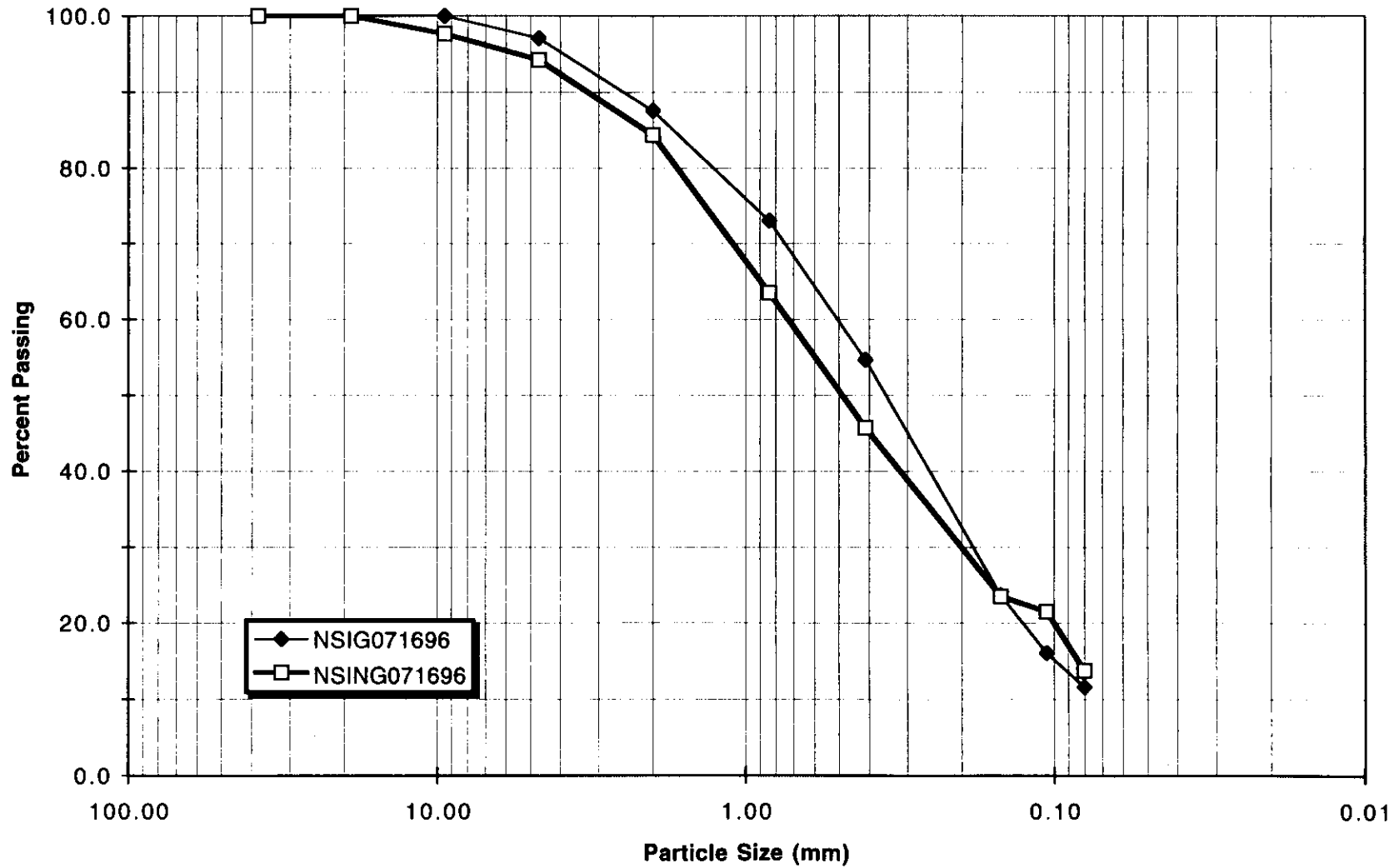


**GRAIN SIZE DISTRIBUTION TEST REPORT**  
**Street Sediment Loads Project**



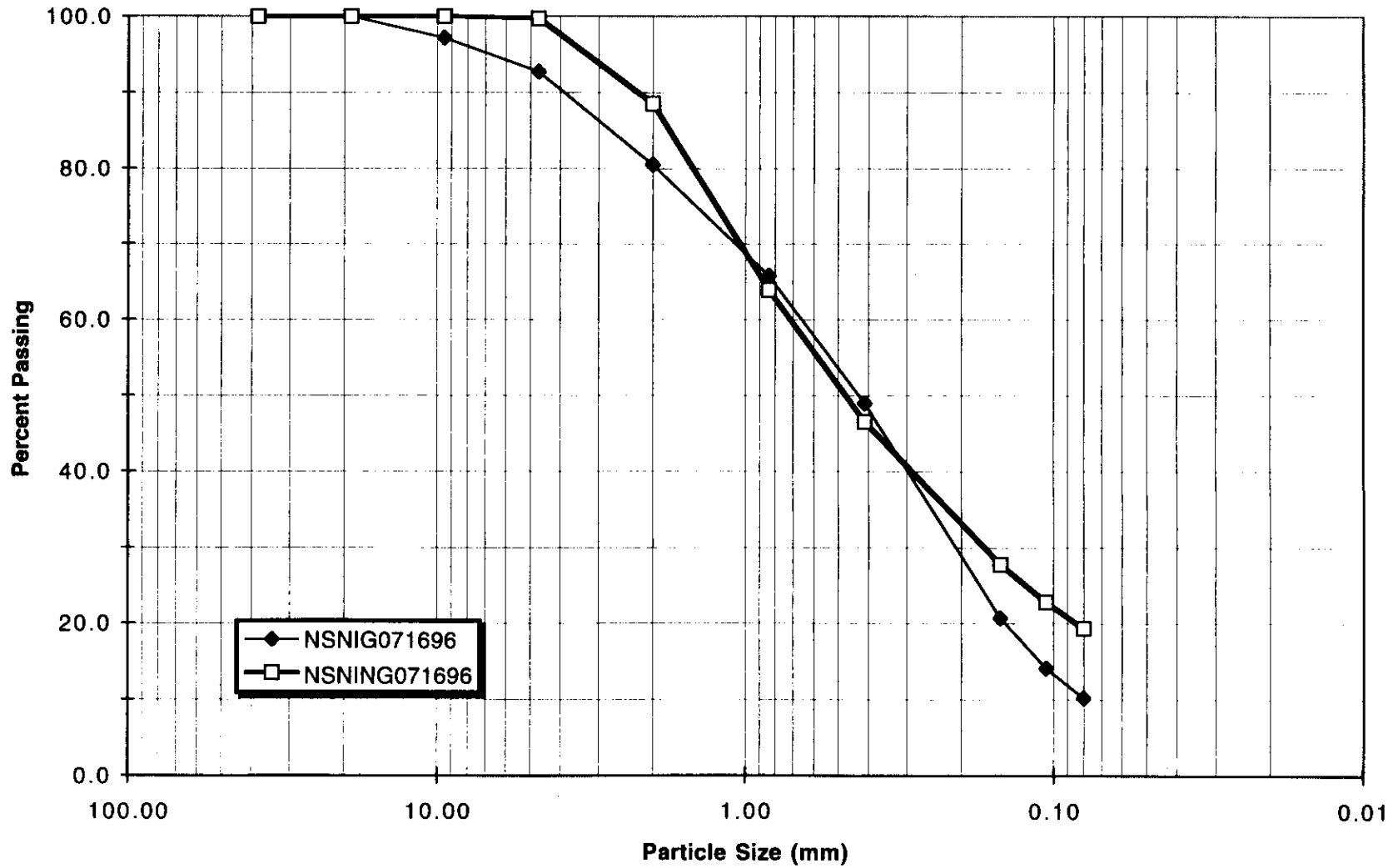
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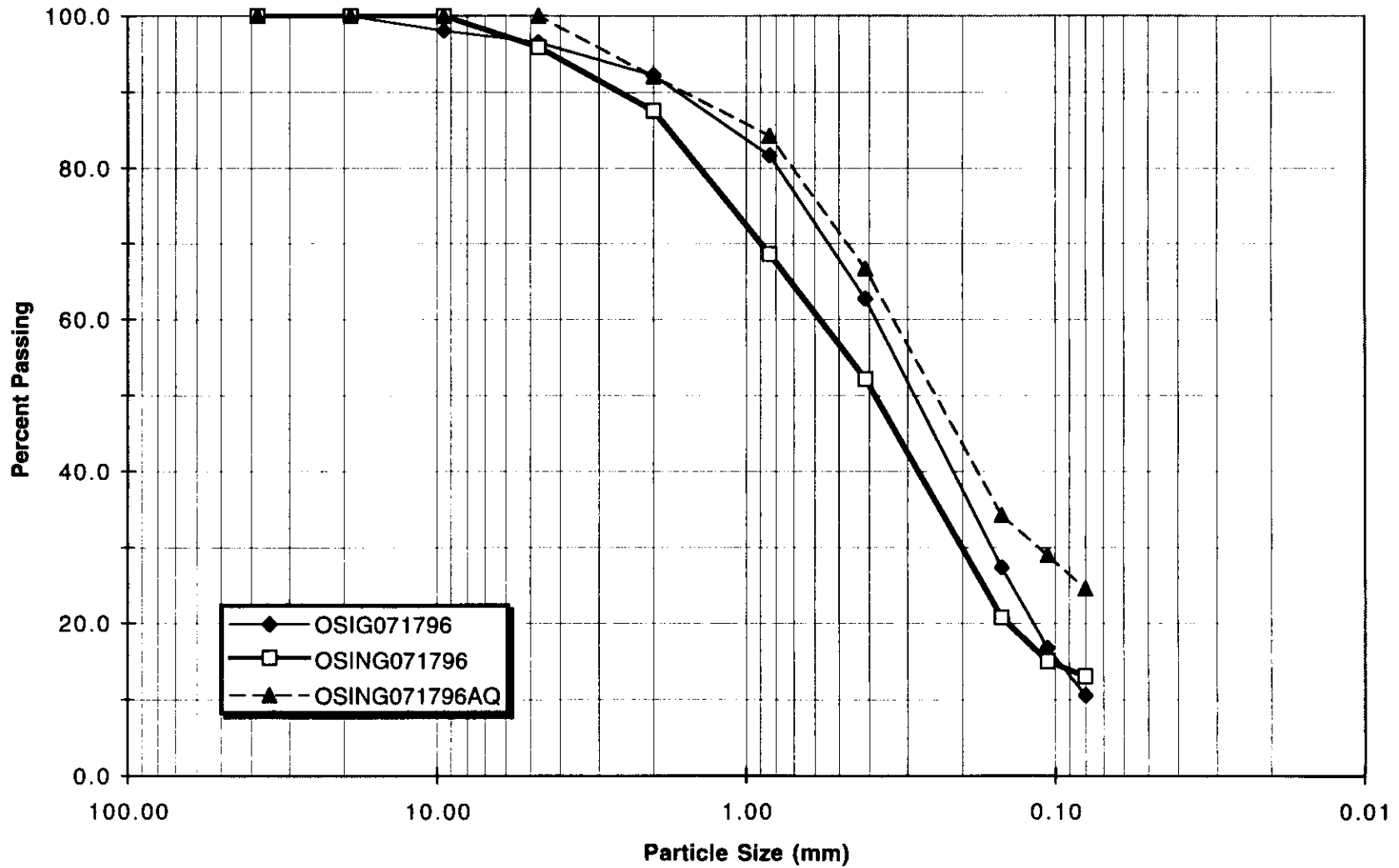
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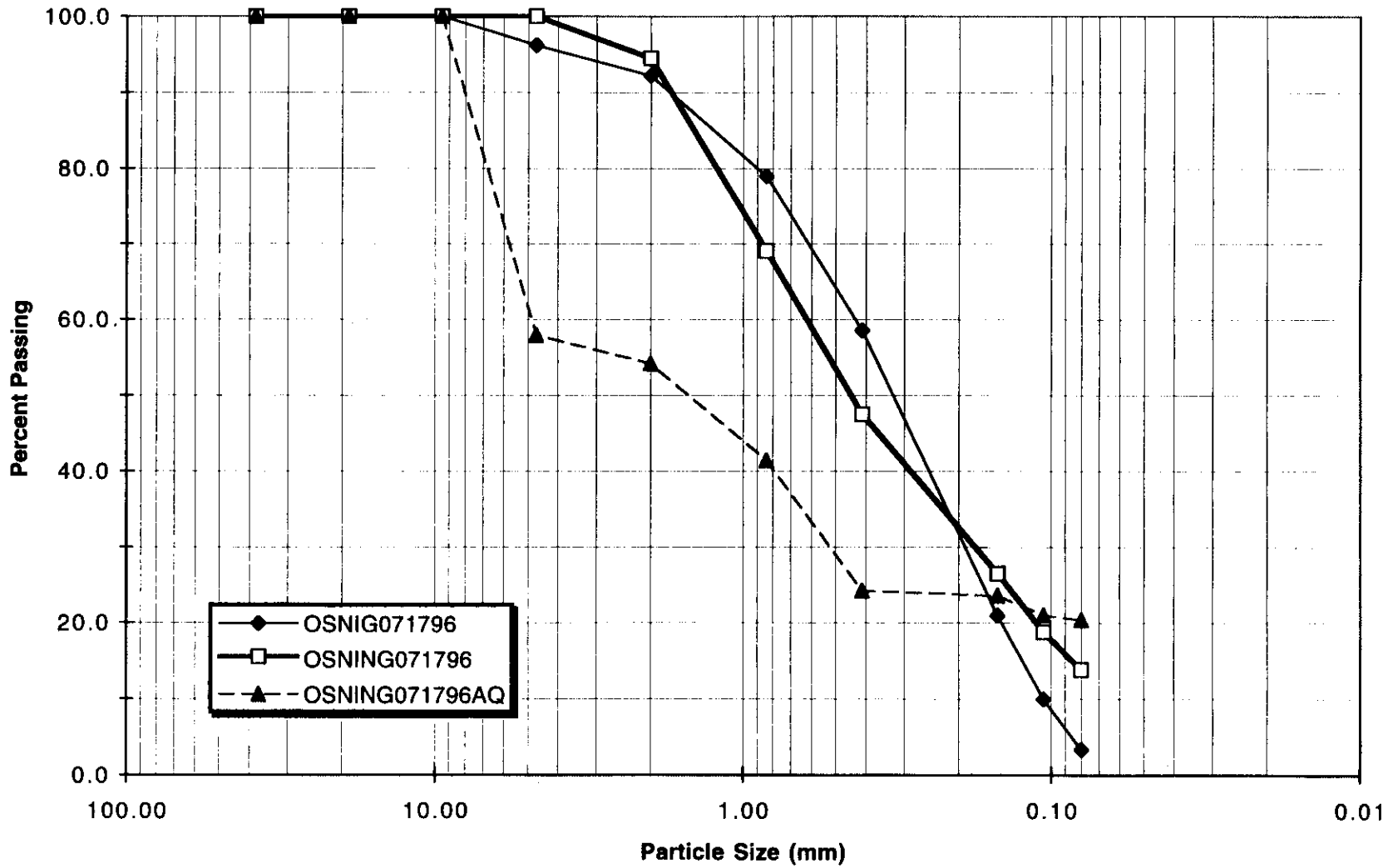
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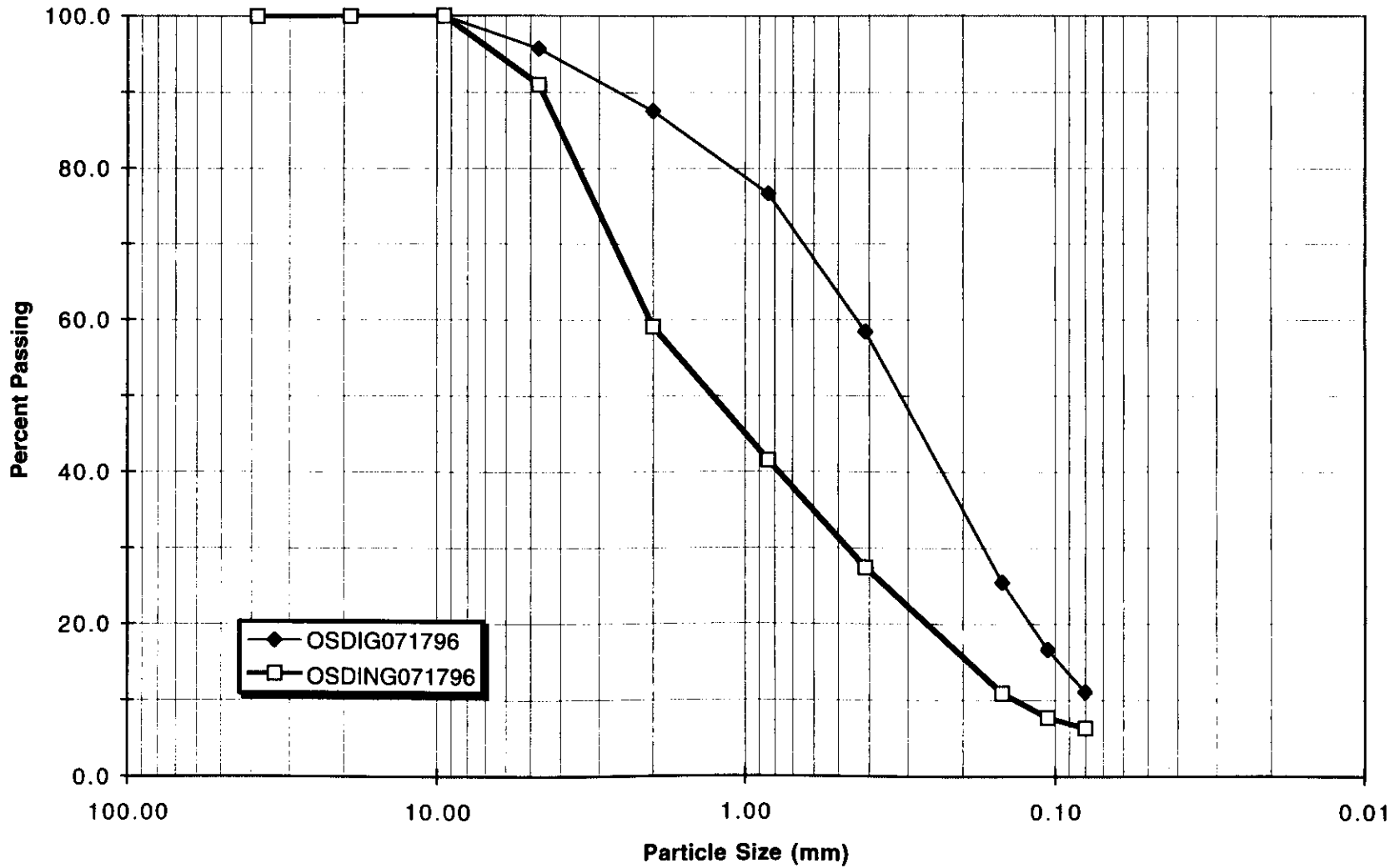
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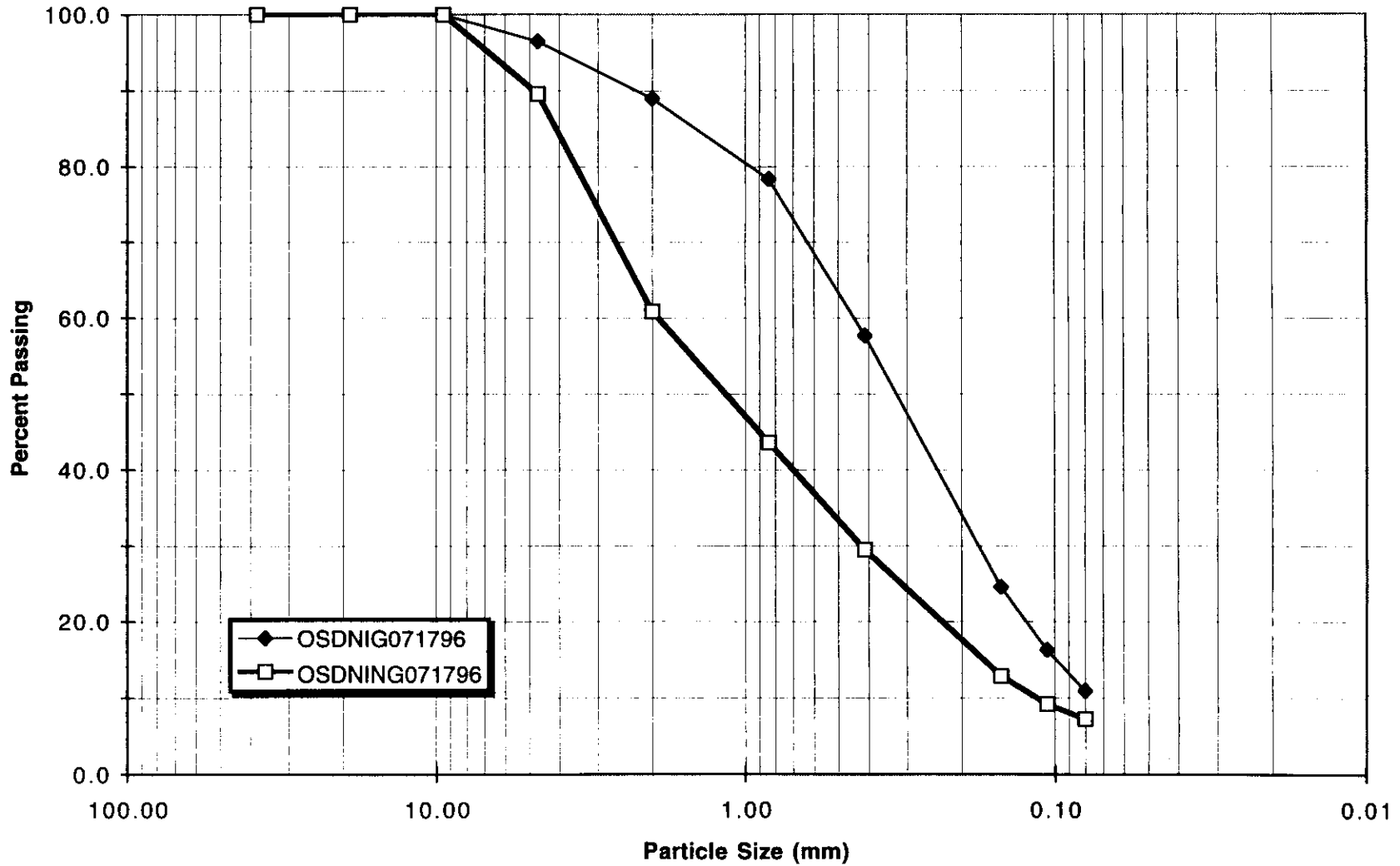
# GRAIN SIZE DISTRIBUTION TEST REPORT

## Street Sediment Loads Project



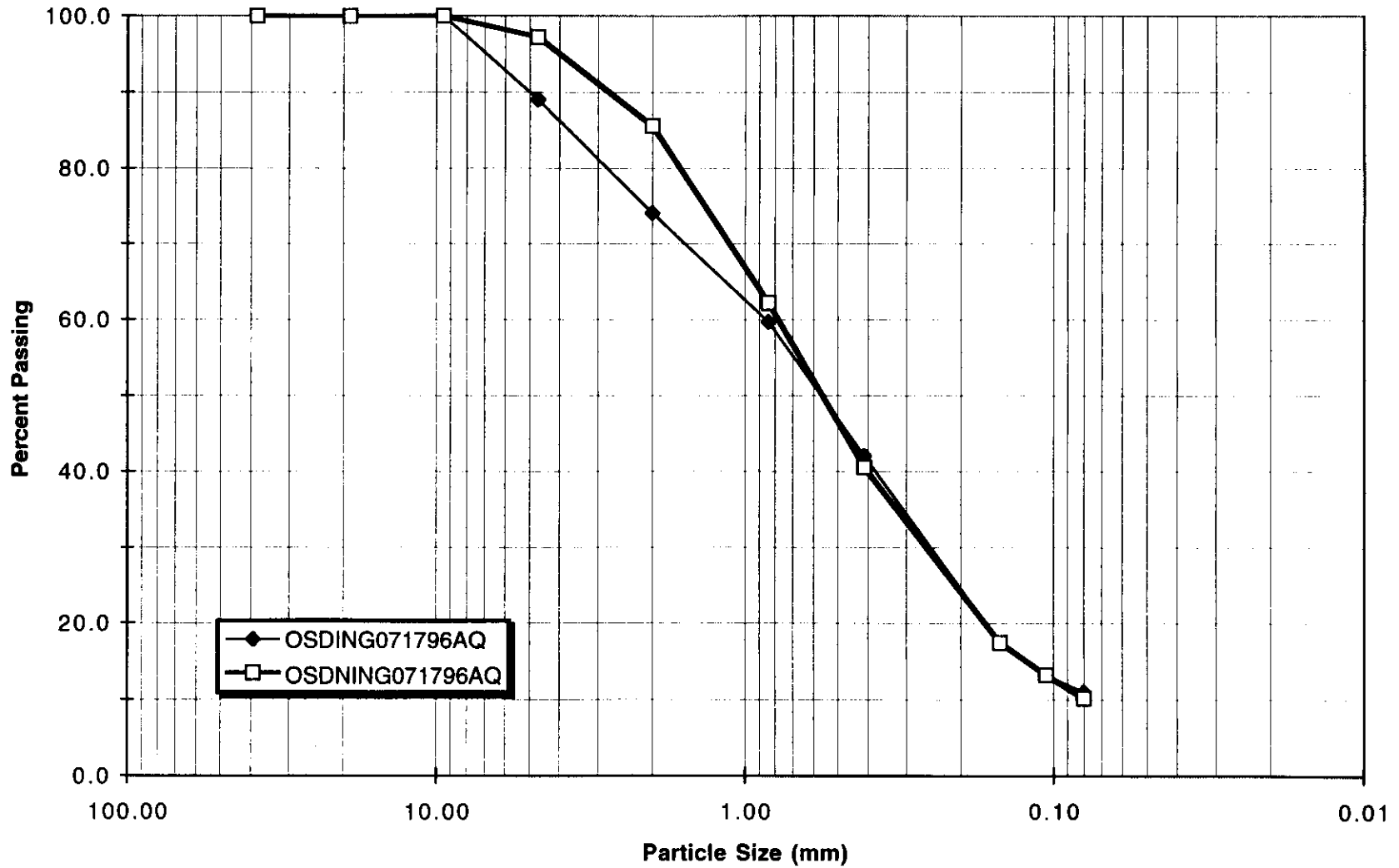
# GRAIN SIZE DISTRIBUTION TEST REPORT

## Street Sediment Loads Project



# GRAIN SIZE DISTRIBUTION TEST REPORT

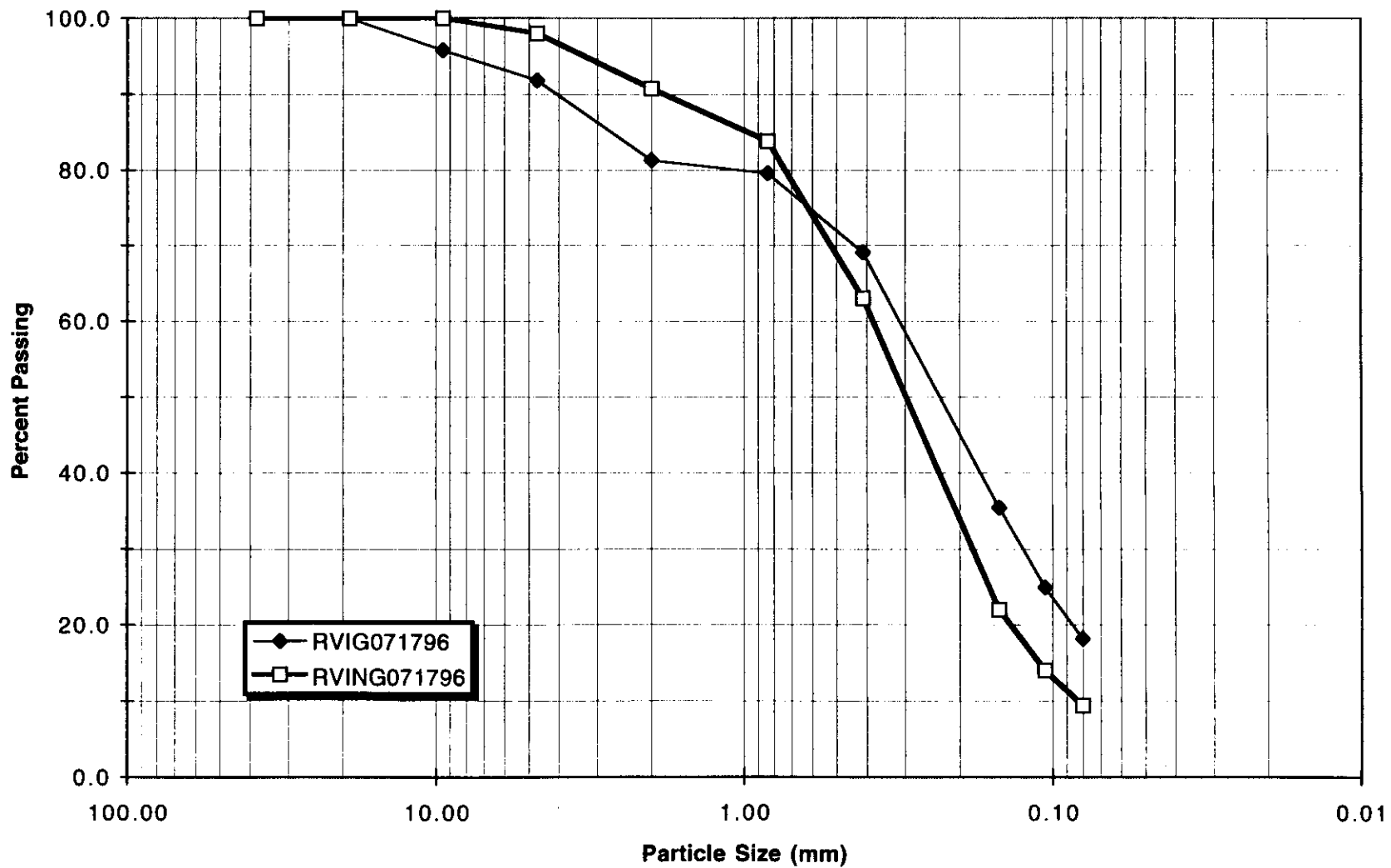
## Street Sediment Loads Project





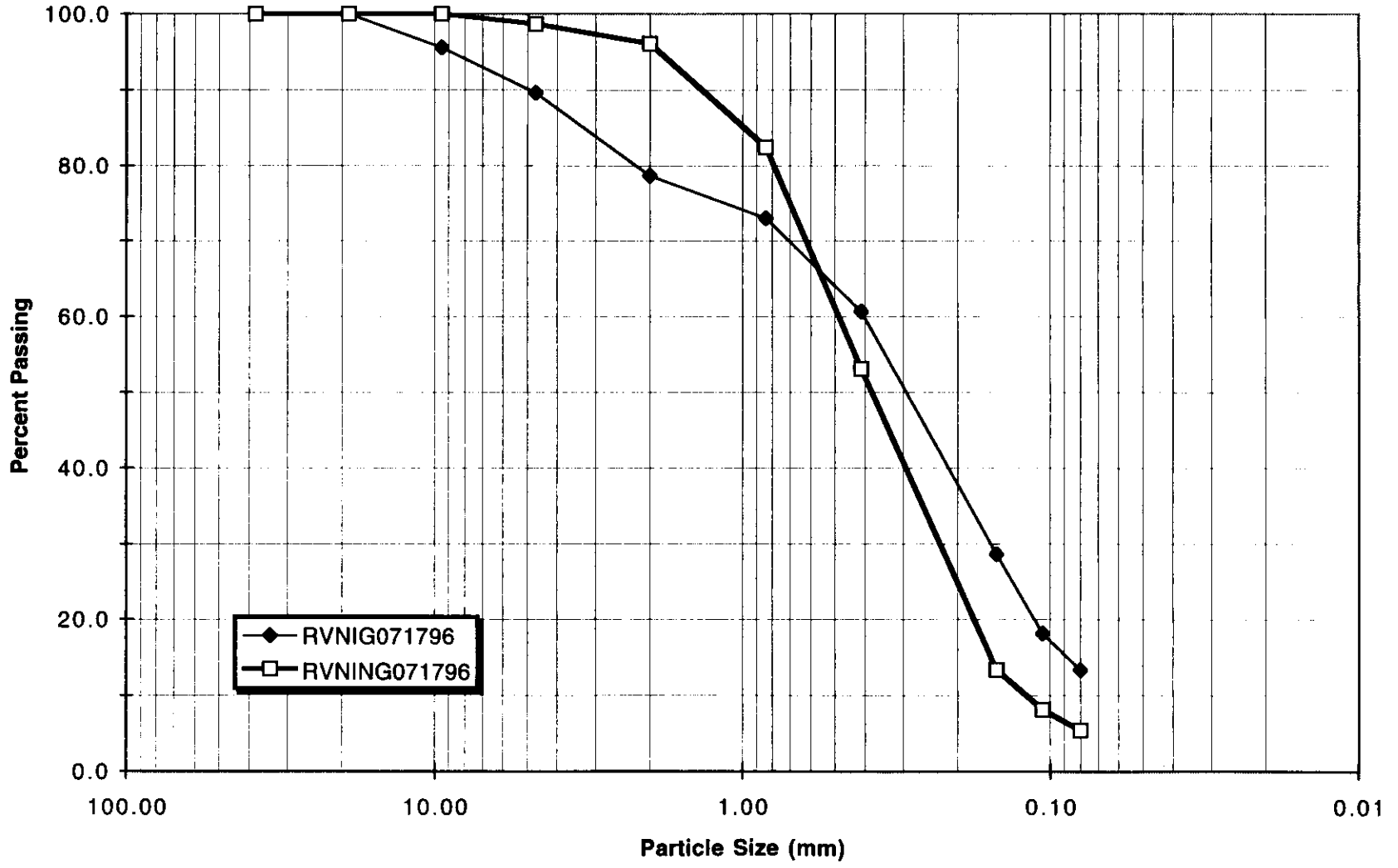
# GRAIN SIZE DISTRIBUTION TEST REPORT

## Street Sediment Loads Project



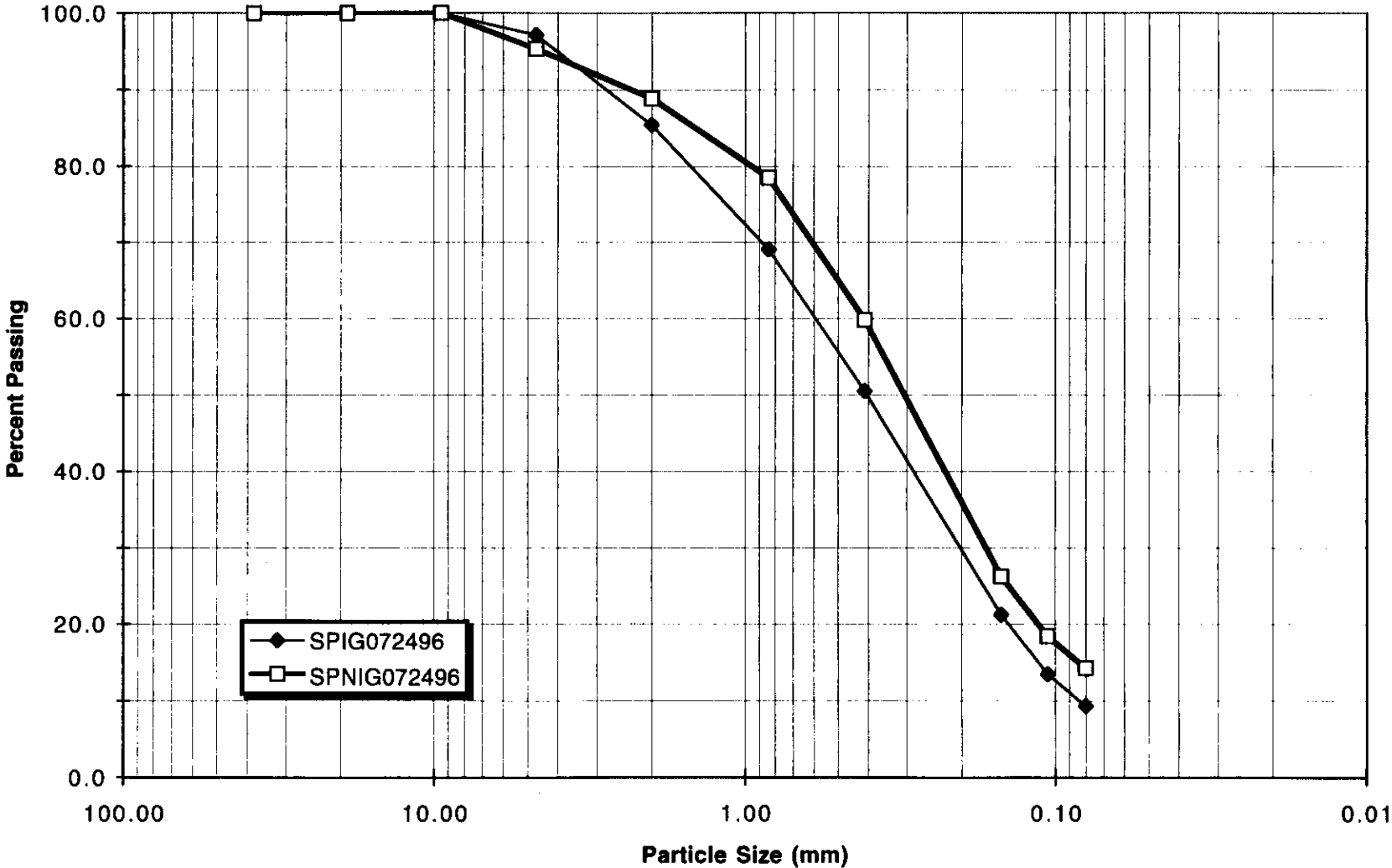
# GRAIN SIZE DISTRIBUTION TEST REPORT

## Street Sediment Loads Project



# GRAIN SIZE DISTRIBUTION TEST REPORT

## Street Sediment Loads Project



**CHAIN OF CUSTODY REPORTS**



MONTGOMERY WATSON

Anchorage, Alaska

Return Cooler # \_\_\_\_\_ to

MONTGOMERY WATSON

4000 Credit Union Drive, Suite 600

Anchorage, Alaska 99503

(907) 561-5829

Job 1302A

P 1/4

CHAIN OF CUSTODY FORM

PROJ. NO.			LABORATORY NAME			TOTAL NO. OF CONTAINERS	<i>Particulate Size Analysis</i> <i>Water Sample</i> <i>Particulate Size Analysis</i> <i>Dry Weight</i> <i>Microbiology</i> <i>Stream and Soil</i> <i>Steam Filter (HEPA)</i> <i>Weight Filter (HEPA)</i>				REMARKS						
1801.0441			Rodney P. Kinney & Assoc.														
SAMPLERS: (Signature)						DATE	TIME	GRAB	STATION NUMBER/LOCATION								
<i>Chilast</i>																	
3/20	3:00	✓	NSIG032096	✓	1	1											<i>Band 1</i>
3/20	3:30	✓	NSING032096	✓	1	1											
3/21	2:00	✓	OSIG032196	✓	1	1											
3/21	2:00	✓	OSING032196	✓	1	1											
3/21	2:00	✓	OSNIG032196	✓	1	1											
3/21	2:00	✓	OSNING032196	✓	1	1											
3/21	2:00	✓	36IG032196	✓	1	1											
3/21	2:00	✓	36ING032196	✓	1	1											
3/21	2:00	✓	36NIG032196	✓	1	1											
3/21	2:00	✓	36NING032196	✓	1	1											
3/21	2:00	✓	OSING032196AQ	✓	1	1				1	1						<i>Return filter &amp; 1/2 of sample</i>
3/21	2:00	✓	OSNING032196AQ	✓	1	1				1	1						
3/21	2:00	✓	36ING032196AQ	✓	1	1				1	1						
3/21	2:00	✓	36NING032196AQ	✓	1	1				1	1						
3/22	2:00	✓	DMIG032296	✓	1	1											
3/22	2:00	✓	DMING032296	✓	1	1											
3/26	10:00	✓	12IG032696	✓	1	1											<i>Band 1</i>

Relinquished by: *[Signature]* Date/Time: *3/26 15:20* Received by: \_\_\_\_\_ Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received by: \_\_\_\_\_

Received for Laboratory by: *MM* Date: *3-27-96* Time: *15:30*



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CHAIN OF CUSTODY FORM

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PROJ. NO.		LABORATORY NAME		TOTAL NO. OF CONTAINERS	<i>Particulate Size Analysis</i> <i>Wet Sizing</i> <i>Particulate Size Analysis</i> <i>Dry Sizing</i> <i>Monitors and Solut</i> <i>Stamps</i> <i>Wash Filter (HEPA)</i>				REMARKS	
1801.0441		Rodney P. Kinney & Assoc.								
SAMPLERS: (Signature)										
Culcut										
DATE	TIME	GRAB	STATION NUMBER/LOCATION							
3/26	10:00	✓	12ING032696 /	1	1					Rand 1
3/26	10:00	✓	12NIG032696 /	1	1					
3/26	10:00	✓	12NING032696 /	1	1					
3/26	10:00	✓	N.IG032696 /	1	1					
3/26	10:00	✓	N.ING032696 /	1	1					
3/26	10:00	✓	N.NIG032696 /	1	1					
3/26	10:00	✓	N.NING032696 /	1	1					
3/27	3:00	✓	SIG032796 /	1	1					
3/27	3:00	✓	SING032796 /	1	1					
3/27	3:00	✓	SNIG032796 /	1	1					
3/27	3:00	✓	SNING032796 /	1	1					
3/27	3:00	✓	RVIG032796 /	1	1					
3/27	3:00	✓	RVING032796 /	1	1					
3/27	3:00	✓	RVNING032796 /	1	1					
3/27	3:00	✓	SING032796AQ /	1	1	1	1			Return filter and 1/2 of Sample
3/27	3:00	✓	SNING032796AQ /	1	1	1	1			Rand 1 ↓
Relinquished by:		Date/Time	Received by:		Relinquished by:		Date/Time	Received by:		
<i>Chris R</i>		3/27/96 15:30								
Received for Laboratory by: <i>MAA</i>				Date: 3-27-96				Time: 15:30		



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CHAIN OF CUSTODY FORM

PROJ. NO.		LABORATORY NAME		TOTAL NO. OF CONTAINERS	Particle Size Analysis	Net Weight of Sample	Particle Size Analysis	Homogenize and Split	Weigh Filter (HQA)	REMARKS
1801.0441		Rodney P. Kinney & Assoc.								
SAMPLERS: (Signature)										
C. West										
DATE	TIME	GRAB	STATION NUMBER/LOCATION							
3/27	3:00	✓	RVING032796AQ	1	1					Return filter of 1/2 of Sample ↓
3/27	3:00	✓	RVING032796AQ	1	1					
3/27	9:00	✓	EIG032796	1	1					
3/27	9:00	✓	EING032796	1	1					
3/27	9:00	✓	ENIG032796	1	1					
3/27	9:00	✓	ENING032796	1	1					
3/27	9:00	✓	15IG032796	1	1					
3/27	9:00	✓	15ING032796	1	1					
3/27	9:00	✓	15NIG032796	1	1					
3/27	9:00	✓	15NING032796	1	1					
3/22	2:00	✓	9500311202 (NIG) NLT	1	1					Return filter of 1/2 of Sample ↓
3/22	2:00	✓	NLING032296AQ	1	1					
3/22	2:00	✓	NLNING032296AQ	1	1					
		✓	Test Samp	1	1					Combine into 1 Sample
3/22	2:00	✓	9500311204 NLT: NING	1	1					Rand 1
3/22	2:00	✓	9500311203 NLT: ING	1	1					
3/22	2:00	✓	9500311201 NLT: IG	1	1					
Relinquished by:		Date/Time		Received by:		Relinquished by:		Date/Time		Received by:
C. West		3/27 15:30								
Received for Laboratory by: MM						Date: 3-27-96			Time: 15:30	

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CHAIN OF CUSTODY FORM

PROJ. NO.		LABORATORY NAME		TOTAL NO. OF CONTAINERS	Particle Size Analysis w/1 Sieves				REMARKS
1801.0441		RPK							
SAMPLERS: (Signature)									
Bill [Signature]									
DATE	TIME	GRAB	STATION NUMBER/LOCATION	TOTAL NO. OF CONTAINERS					
4/2			16 IG 040296 /	1	1			Round 1	
4/2			16 IAG 040296 /	1	1			             	
4/2			16 MING 040296 /	1	1				
4/2			16 NTG 040296 /	1	1				
4/2			COIG 040296 /	1	1				
4/2			COIAG 040296 /	1	1				
4/2			CONIG 040296 /	1	1				
4/2			CONIAG 040296 /	1	1				
4/2									
Relinquished by:		Date/Time	Received by:	Relinquished by:		Date/Time	Received by:		
Bill [Signature]		4/17 5:15pm							
Received for Laboratory by: [Signature]				Date: 4/17		Time: 5:15pm			



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## CHAIN OF CUSTODY FORM

PROJ. NO.		LABORATORY NAME		TOTAL NO. OF CONTAINERS	Particle Size Analysis				REMARKS		
1801.0441		RPK									
SAMPLERS: (Signature)											
DATE TIME GRAB				STATION NUMBER/LOCATION							
4/16			NSING 041696	1	1				Round 2		
4/16			36BING 041696 ✓	1	1				Round 2		
4/16			OSDNIG 041696 ✓	1	1				Round 1		
4/16			36B NIG 041696 ✓	1	1				Round 2		
4/16			NSNING 041696	1	1				Round 2		
4/16			OSDNING 041696 ✓	1	1				Round 1		
4/16			NS IG 041696 ✓	1	1				Round 2		
4/16			36B IG 041696 ✓	1	1				↓		
4/16			36B NING 041696 ✓	1	1				↓		
4/16		B.S.	NS NIG 041696 ✓	1	1				Round 2		
4/16		5/19/96	OSDBS NIG 041696 ✓	1	1				One Stop 2 transects @ 200' + 150'		
4/16			OSDNIG 041696 ✓	1	1				Round 1 all conditions except Gas Stop		
4/16			OSDIG 041696 ✓	1	1				Round 1		
4/16			OSDING 041696 ✓	1	1				↓		
4/5			13NING 040596 ✓	1	1				↓		
4/5			KBING 040596 ✓	1	1				↓		
4/5			KANING 040596 ✓	1	1				Round 1		
Relinquished by:		Date/Time		Received by:		Relinquished by:		Date/Time		Received by:	
Bill [Signature]		4/17 5:15									
Received for Laboratory by: Mark						Date: 4/17			Time: 5:15		



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CHAIN OF CUSTODY FORM

PROJ. NO.		LABORATORY NAME		TOTAL NO. OF CONTAINERS	Particle Size Analysis wet sieve				REMARKS
1801.0441		RPK							
SAMPLERS: (Signature)									
Bill [Signature]									
DATE	TIME	GRAB	STATION NUMBER/LOCATION						
4/9			COL NIG 040996 ✓	2	1				Round 1 2 bags, 1 wet, 1 damp (combine jar)
4/9			15A IG 040996 ✓	1	1				
4/9			COL IG 040996 ✓	1	1				
4/9			15A NIG 040996 ✓	1	1				
4/5			KA IG 040596 ✓	1	1				
4/5			13 NIG 040596 ✓	1	1				
4/5			KANIG 040596 ✓	1	1				
4/5			KB NIG 040596 ✓	1	1				
4/5			KB IG 040596 ✓	1	1				
4/5			9 <sup>th</sup> IG 040596 ✓	1	1				
4/5			9 <sup>th</sup> NIG 040596 ✓	1	1				
4/5			13 IG 040596 ✓	1	1				Round 1 Telephone covers, Bill Spomer w/ Mark Older 5/9/86
4/9			COL MING 040996 ✓	1	1				
4/9			15A NING 040996 ✓	1	1				
4/9			COL TING 040996 ✓	1	1				
4/4			15A TING 040996 ✓	1	1				

Relinquished by: Bill [Signature] Date/Time: 4/17 5:15pm Received by: \_\_\_\_\_ Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received by: \_\_\_\_\_

Received for Laboratory by: Mark Date: 4/17 Time: 5:15



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**CHAIN OF CUSTODY FORM**

PROJ. NO.		LABORATORY NAME		TOTAL NO. OF CONTAINERS						REMARKS
1010011										
SAMPLERS: (Signature)										
DATE	TIME	GRAB	STATION NUMBER/LOCATION							
1/27		✓	51N16-032276 AR Dup entry	1						ROUND 1
1/27		✓	51N16-032716 AR Dup entry	1						ROUND 1
1/27		✓	15A116-041076 AC Dup entry	1						ROUND 1
1/27		✓	15A116-041096 AR Dup entry	1						ROUND 1
1/27		✓	15A116-042576 AR Dup Entry	1						ROUND 2
1/27		✓	15A116-042596 AR Dup Entry	1						ROUND 2
1/27		✓	16N16-042376 AR Dup Entry	1						ROUND 2
1/27		✓	16N16-042396 AR Dup Entry	1						ROUND 2
1/27		✓	36N16-032196 AR Dup Entry	1						ROUND 1
1/27		✓	36N16-032196 AR Dup Entry	1						ROUND 1
1/27		✓	36N16-042596 AR " "	1						ROUND 2
1/27		✓	36N16-042596 AR " "	1						ROUND 2
1/27		✓	CO1N16-042396 AR " "	1						ROUND 2
1/27		✓	CO1N16-042396 AR " "	1						ROUND 2
1/27		✓	CO1N16-041096 AR " "	1						ROUND 1
1/27		✓	CO1N16-041096 AR " "	1						ROUND 1

Relinquished by:	Date/Time	Received by:	Relinquished by:	Date/Time	Received by:

Received for Laboratory by:	Date:	Time:



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CHAIN OF CUSTODY FORM

PROJ. NO:		LABORATORY NAME		TOTAL NO. OF CONTAINERS						REMARKS
1001.0441		DMLD - 1001.0441								
SAMPLERS: (Signature)										
DATE	TIME	GRAB	STATION NUMBER/LOCATION							
4/16		✓	COLING6042676AQ Dup. Entry	1						ROUND 2
4/16		✓	COLING6042676AQ " "	1						ROUND 2
4/17		✓	DMING6041776AQ " "	1						ROUND 2
4/17		✓	DMING6041776AQ " "	1						ROUND 2
4/25		✓	KIING6042596AQ " "	1						ROUND 2
4/25		✓	KIING6042596AQ " "	1						ROUND 2
3/22		✓	NLING6032276AQ " "	1						ROUND 1
3/22		✓	NLING6032276AQ " "	1						ROUND 1
4/16		✓	OSDING6041676AQ " "	1						ROUND 1
4/16		✓	OSDING6041676AQ " "	1						ROUND 1
3/21		✓	OSING6032196AQ " "	1						ROUND 1
3/21		✓	OSING6032196AQ " "	1						ROUND 1
4/25		✓	OSIA6042596AQ " "	1						ROUND 2
4/25		✓	OSUING6042596AQ " "	1						ROUND 2
3/27		✓	RVING6032776AQ " "	1						ROUND 1
3/27		✓	RVING6032776AQ " "	1						ROUND 1

Relinquished by: <i>Lin +</i>	Date/Time 4/16/05	Received by: <i>T. Taylor</i>	Relinquished by:	Date/Time	Received by:
Received for Laboratory by:		Date:		Time:	



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CHAIN OF CUSTODY FORM

PROJ. NO.		LABORATORY NAME		TOTAL NO. OF CONTAINERS	Wet Wash Particle size	Tahp & Sub 100 micron	Sample Volume	Split Sample	REMARKS
1801.0441		RPR							
SAMPLERS: (Signature)									
Bill Green									
DATE	TIME	GRAB	STATION NUMBER/LOCATION						
			ISA IG 042596 /	✓					Rnd 2
			ISANIG 042596 /	✓					
			ISATING 042596 /	✓					
			ISATING 042596 AQ /	✓			✓		
			ISANING 042596 /	✓					
			ISANING 042596 AQ /	✓			✓		
			COLIG 042596 /	✓					
			COLING 042596 /	✓					
			COLING 042596 AQ /	✓			✓		
			COLNIG 042596 /	✓					
			COLNING 042596 /	✓					
			COLNING 042596 AQ /	✓			✓		
			KIIG 042596 /	✓					
			KIING 042596 /	✓					
			KIING 042596 AQ /	✓			✓		
			KINIG 042596 /	✓					
			KINING 042596 /	✓					
								Rnd 2	

Relinquished by: <i>(Signature)</i>	Date/Time: 4/30/96 17:45	Received by:	Relinquished by:	Date/Time:	Received by:
Received for Laboratory by: Mark Akiba		Date: 4/30/96		Time: 17:45	



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CHAIN OF CUSTODY FORM

PROJ. NO.		LABORATORY NAME		TOTAL NO. OF CONTAINERS	<div style="display: flex; justify-content: space-between;"> <span>Wet Wash</span> <span>Washed Strain</span> </div> <div style="display: flex; justify-content: space-between;"> <span>Split Sample</span> </div>				REMARKS
SAMPLERS: (Signature)									
DATE	TIME	GRAB	STATION NUMBER/LOCATION						
			12IG 0426 96 /	✓					RND 2
			12 INIG 0426 96 /	✓					
			12 NIG 0426 96 /	✓					
			12 NING 0426 96 /	✓					
			NIIG 0426 96 /	✓					
			NNIG 0426 96 /	✓					
			NING 0426 96 /	✓					
			NNING 0426 96 /	✓					
			15IG 0425 96 /	✓					
			15 INIG 0425 96 /	✓					
			15 NIG 0426 96 /	✓					
			15 NING 0425 96 /	✓					
			FIG 0425 96 /	✓					
			FINIG 0425 96 /	✓					
			ENIG 0425 96 /	✓					
			ENING 0425 96 /	✓					
			KTNING 0425 96 AQ /	✓	✓				RND 2
Relinquished by:		Date/Time	Received by:		Relinquished by:		Date/Time	Received by:	
(Signature)		4/30 17:15							
Received for Laboratory by: <i>Mark Adams</i>					Date: 4/30		Time: 17:45		



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CHAIN OF CUSTODY FORM

PROJ. NO.		LABORATORY NAME		TOTAL NO. OF CONTAINERS	Partials Spill Wash	Split Sample			REMARKS
1801.0441		RPR							
SAMPLERS: (Signature)									
Bill Spence									
DATE	TIME	GRAB	STATION NUMBER/LOCATION						
			KD NIG 041896 /		✓				Round 2
			KD NING 041896 /		✓				
			9 <sup>th</sup> IG 041896 /		✓				
			9 ING 041896 /		✓				
			9 NIG 041896 /		✓				
			9 NING 041896 /		✓				
			5 IG 041996 /		✓				
			5 ING 041996 /		✓				
			5 NIG 041996 /		✓				
			5 NING 041996 /		✓				
			RV IG 041996 /		✓				
			RV ING 041996 /		✓				
			RV NIG 041996 /		✓				
			RV NING 041996 /		✓				
			DM IG 041996 /		✓				
			DM ING 041996 /		✓				
			DM ING 041996 AQ /		✓	✓			Round 2
Relinquished by:		Date/Time	Received by:		Relinquished by:		Date/Time	Received by:	
Bill Spence		4/30/96 17:45							
Received for Laboratory by: Mark Adams					Date: 4/30/96		Time: 17:45		





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CHAIN OF CUSTODY FORM

PROJ. NO.		LABORATORY NAME		TOTAL NO. OF CONTAINERS	Particle Size Analysis wet sieve Split Sample			REMARKS
1801.0441		RPK						
SAMPLERS: (Signature)								
Bill [Signature]								
DATE	TIME	GRAB	STATION NUMBER/LOCATION					
			KA ING 042496 /	1	/		Round 2	
			KA NIG 042496 /	1	/			
			KA NING 042496 /	1	/			
			KA IG 042396 /	1	/			
			KA ING 042396 /	1	/			
			KA NIG 042396 AQ /	1	/	✓		
			KA NING 042396 /	1	/			
			KA NING 042396 AQ /	1	/	✓		
			KA IG 042396 /	1	/			
			KA ING 042396 /	1	/			
			KA ING 042396 AQ /	1	/	✓		
			KA NIG 042396 /	1	/			
			KA NING 042396 /	1	/			
			KA NING 042396 AQ /	1	/	✓		
			KA IG 041896 /	1	/		Round 2	
			KA ING 041896 /	1	/			
Relinquished by:		Date/Time	Received by:		Relinquished by:		Date/Time	Received by:
[Signature]		4/30/96 17:45	[Signature]		[Signature]			
Received for Laboratory by: Mark [Signature]				Date: 4/30		Time: 17:45		



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CHAIN OF CUSTODY FORM

PROJ. NO.		LABORATORY NAME		TOTAL NO. OF CONTAINERS	<i>Parhila Site Monitor 1st Wash</i> <i>Split Sample</i>					REMARKS
1801.0441		RPK								
SAMPLERS: (Signature)										
<i>Bill Green</i>										
DATE	TIME	GRAB	STATION NUMBER/LOCATION							
			36IG042496 /	/						Round 2
			36ING042496 /	/						
			36ING042596 AQ /	/	/					
			36NIG042496 /	/						
			36NING042496 /	/						
			36NING042596 AQ /	/	/					
			05IG042496 /	/						
			05ING042496 /	/						
			05ING042596 AQ /	/	/					
			05NIG042496 /	/	/					
			05NING042496 /	/	/					
			05NING042596 AQ /	/	/	/				
			13IG042496 /	/	/					
			13ING042496 /	/	/					
			13NIG042496 /	/	/					
			13NING042496 /	/	/					
			KAIG042496 /	/	/				Round 2	
Relinquished by:		Date/Time	Received by:		Relinquished by:		Date/Time	Received by:		
<i>Q</i>		4/20/96 17:45								
Received for Laboratory by: <i>Mark Alder</i>					Date: 4/20/96		Time: 17:45			





Department of Public Works  
Street Sediment Load Sampling  
Phase 2

RETURN COOLERS TO:  
MONTGOMERY WATSON  
4100 Spenard Road  
Anchorage, Alaska 99517  
(907)248-8883

CHAIN OF CUSTODY FORM

PROJ. NO.		TO:		TOTAL NO. OF CONTAINERS	Split Sample								REMARKS
1801.0442		DHHS - AQ											
SAMPLERS: (Signature) <i>Chris R.</i>													
DATE	TIME	S/W	SAMPLE ID										
1996 5/30			OSDING053096AQ	1	X								Round 2
5/30			OSDNING053096AQ	1	X								Round 2
7/17			36ING071796AQ	1	X								Round 3
7/17			36NING071796AQ	1	X								Round 3
7/17			OSING071796AQ	1	X								"
7/17			OSNING071796AQ	1	X								"
7/17			OSDING071796AQ	1	X								"
7/17			OSDNING071796AQ	1	X								"
7/26			ATONG072696AQ	1	X								"
7/26			ANTONG072696AQ	1	X								"
7/26			NLTING072696AQ	1	X								"
7/26			NLTNING072696AQ	1	X								"
Relinquished by:		Date/Time:		Shipped via:		Notified:		Date/Time:		Received by:			
<i>Lawrence M. White</i>		9/20/16 9:40											
Received for Laboratory by:								Date:		Time:			
<i>1/1/17</i>													

Revision Date: 8/6/96





MONTGOMERY WATSON

Anchorage, Alaska

CHAIN OF CUSTODY FORM

Return Cooler \* \_\_\_\_ to:  
MONTGOMERY WATSON  
4000 Credit Union Drive, Suite 600  
Anchorage, Alaska 99503  
(907) 561-5829

PROJ. NO.		LABORATORY NAME		TOTAL NO. OF CONTAINERS	Sieve Analysis wet Sieve			REMARKS
1801.0440		RPK & Dsr.						
SAMPLERS: (Signature)								
Bill Egan								
DATE	TIME	GRAB	STATION NUMBER/LOCATION					
8/23			WLA 0823 Sed Trap	1	1			
↓			WLA 0823 Sed Trap	1	1		065	
↓			WLA 0823 Sed Trap	1	1			
↓			WLA 0823 Sed Trap	1	1			
5/22			21IG052296	1	1			Round 3 Added on 9-30-96 by WON as per phone conv. on 8-19-86 Bill Egan with Mark Alder
↓			21TNG052296	1	1			
↓			21NIG052296	1	1			
↓			21NING052296	1	1			
5/20			050IG053096	1	1			
↓			050ING053096	1	1			
↓			050NIG053096	1	1			
↓			050NING053096	1	1			
7/17			040MIG071796 AQ	1	1		Round 2 Round 3 " "	
7/17			040ING071796 AQ	1	1			

Relinquished by: Bill Egan	Date/Time 8/29 6:30pm	Received by:	Relinquished by:	Date/Time	Received by:
Received for Laboratory by: Mark Alder		Date: 9/29 6:30pm Time:			



MONTGOMERY WATSON

Anchorage, Alaska

Return Cooler # \_\_\_\_\_ to:  
MONTGOMERY WATSON  
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CHAIN OF CUSTODY FORM

P 1/10

PROJ. NO.		LABORATORY NAME		TOTAL NO. OF CONTAINERS	Particle Size Analysis (microns)					REMARKS	
1801.0442		RPK									
SAMPLERS: (Signature)											
Bill [Signature]											
DATE	TIME	GRAB	STATION NUMBER/LOCATION								
7/8			12IG070896	/	1	1					Run 3
7/8			12ING070896	/	1	1					
7/8			12NIG070896	/	1	1					
7/8			12NING070896	/	1	1					
7/8			WIG070896	/	1	1					
7/8			WING070896	/	1	1					
7/8			WNIG070896	/	1	1					
7/8			WNING070896	/	1	1					
7/9			13IG070996	/	1	1					
7/9			13ING070996	/	1	1					
7/9			13NIG070996	/	1	1					
7/9			13NING070996	/	1	1					
7/9			KAIG070996	✓	1	1					
7/9			KAING070996	✓	1	1					
7/9			KANIG070996	✓	1	1					
7/9			KANING070996	✓	1	1					
											Run 3
Relinquished by:		Date/Time		Received by:		Relinquished by:		Date/Time		Received by:	
[Signature]		8/14 8:00am									
Received for Laboratory by: [Signature]						Date: 8/14/76			Time: 8:00am		



MONTGOMERY WATSON

Anchorage, Alaska

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CHAIN OF CUSTODY FORM

P 2/10

PROJ. NO.		LABORATORY NAME		TOTAL NO. OF CONTAINERS	<div style="text-align: center; transform: rotate(-45deg);"> <i>Particle size Anal.</i>  <i>wet sieve</i> </div>					REMARKS
1801.0442		RPK								
SAMPLERS: (Signature)										
<i>[Signature]</i>										
DATE	TIME	GRAB	STATION NUMBER/LOCATION							
7/16			DMTG 071696 ✓	1	1					Rnd 3
↓			DMING ✓	1	1					
↓			DMNIG ✓	1	1					
↓			DMNING ✓	1	1					
↓			KIIG ✓	1	1					
↓			KIING ✓	1	1					
↓			KINIG ✓	1	1					
↓			KINING ✓	1	1					
↓			NSIG 071696 ✓	1	1					
↓			NSING ✓	1	1					
↓			NSNIG ✓	1	1					
↓			NSNING ✓	1	1					
↓			36BTG ✓	1	1					
↓			36BING ✓	1	1					
↓			36DNIG ✓	1	1					
↓			36DNING ✓	1	1					
										Rnd 3
Relinquished by:		Date/Time		Received by:		Relinquished by:		Date/Time		Received by:
<i>[Signature]</i>		8/14 8:00am								
Received for Laboratory by:				Date:			Time:			
<i>[Signature]</i>				8/14/96			8:00am			





MONTGOMERY WATSON

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CHAIN OF CUSTODY FORM

P 3/10

PROJ. NO.		LABORATORY NAME		TOTAL NO. OF CONTAINERS	<i>Particulate Anal. wet sieve</i>					REMARKS	
1801.0442		RPK									
SAMPLERS: (Signature)											
<i>Bill Egan</i>											
DATE	TIME	GRAB	STATION NUMBER/LOCATION								
7/17			05DIG 071796 ✓	1	1						RND 3
↓			05DING ↓ ✓	1	1						
↓			05DNIG ↓ ✓	1	1						
↓			05DNING ↓ ✓	1	1						
↓			05IG 071796 ✓								
↓			05ING 071796 ✓								
↓			05NIG 071796 ✓								
↓			05NING 071796 ✓								
↓			05ING 071796 AQ ✓								
↓			05NING 071796 AQ ✓								
↓			36IG 071796 ✓								
↓			36ING 071796 ✓								
↓			36ING 071796 AQ ✓								
↓			36NIG 071796 ✓								
↓			36NING 071796 ✓								
↓			36NING 071796 AQ ✓	↓	↓						RND-3
↓											

Relinquished by:	Date/Time	Received by:	Relinquished by:	Date/Time	Received by:
<i>B. Egan</i>	8/14 8:00 am				
Received for Laboratory by: <i>[Signature]</i>			Date: 8/14/96		Time: 8:00 am



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CHAIN OF CUSTODY FORM

P 4/10

PROJ. NO.		LABORATORY NAME		TOTAL NO. OF CONTAINERS	<div style="border: 1px solid black; padding: 5px; transform: rotate(-45deg); display: inline-block;">             Part 25 size Arch Wed 5.000           </div>					REMARKS
1801.0442		R PK								
SAMPLERS: (Signature)										
Bill [Signature]										
DATE	TIME	GRAB	STATION NUMBER/LOCATION							
7/17			S IG 071796 ✓	1						Rnd 3
			S ING ✓							
			S NIG ✓							
			S NING ✓							
			RVIG ✓							
			RVING ✓							
			RVNIG ✓							
			RVNING ✓							
7/24			MULIG 072496 ✓							Rnd 3
			MULNIG ✓							
			DEB IG ✓							
			DEONIG ✓							
7/24			SPIG 072496 ✓							
			SPNIG ✓							
			IOWIG ✓							
			IOWNIG ✓							
Relinquished by:		Date/Time	Received by:		Relinquished by:		Date/Time	Received by:		
[Signature]		8/14 8:00am								
Received for Laboratory by: [Signature]					Date: 8/14/96		Time: 8:00am			



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CHAIN OF CUSTODY FORM

P 5/10

PROJ. NO.		LABORATORY NAME		TOTAL NO. OF CONTAINERS	Particle Size Anal. wet Sieve	Hold Before Anal. for Verification				REMARKS
1801.0442		RPK								
SAMPLERS: (Signature)										
Bill [Signature]										
DATE	TIME	GRAB	STATION NUMBER/LOCATION							
7/24			GIG 072496 ✓	1	1					End 3
7/24			G NIG 072496 ✓							
7/26			AIG 072696 ✓							
			ANIG 072696 ✓							
			ATOG 072696 ✓							
			ANTONG 072696 ✓							
			ANTOG 072696 ✓							
			ANTONG 072696 ✓							
			ATONG 072696 AQ ✓							
			ANTONG 072696 AQ ✓							
			ATOALG 072696			X				
			ATOALG 072696 AQ			X				
7/26			DENIG 072696 ✓							
			DENNIG 072696 ✓							
			NLTBIG 072696 ✓							
			NLTB NIG 072696 ✓	✓	✓					End 3
Relinquished by:		Date/Time	Received by:		Relinquished by:		Date/Time	Received by:		
B. [Signature]		8/14 8:00am								
Received for Laboratory by: [Signature]					Date: 8/14/96		Time: 8:00am			



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CHAIN OF CUSTODY FORM

P 6/10

PROJ. NO.		LABORATORY NAME		TOTAL NO. OF CONTAINERS	REMARKS					
SAMPLERS: (Signature)										
DATE	TIME	GRAB	STATION NUMBER/LOCATION							
7/26			NL+IG 072696 ✓	1	1					Rnd 3
↓			NL+NI G 072696 ✓	1	1					
↓			NL+ING 072696 ✓	1	1					
↓			NL+ING 072696 AQ ✓	1	1					
↓			NL+NING 072696 ✓	1	1					
↓			NL+NING 072696 AQ ✓	1	1					Rnd 3
7/30			NL+ASEDTR 073096	1	1					
↓			21A SEDTR 073096	1	1					
↓			21B SEDTR 073096	1	1					
↓			NL+B SEDTR 073096 } OBS	1	1					
7/15			21A SEDTR 071596	1	1					
↓			21B SEDTR 071596	2	2					
↓			NL+ASEDTR 071596	1	1					
↓			NL+B SEDTR 071596	2	2					
Relinquished by:		Date/Time	Received by:		Relinquished by:		Date/Time	Received by:		
<i>[Signature]</i>		8/19 8:00am	<i>[Signature]</i>		<i>[Signature]</i>		8/14/96	8:00am		
Received for Laboratory by:					Date:		Time:			
<i>[Signature]</i>					8/14/96		8:00am			

100001

100001

Purified Size Anal. w/ 5 sec



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CHAIN OF CUSTODY FORM

P 7/10

PROJ. NO.		LABORATORY NAME		TOTAL NO. OF CONTAINERS	<div style="text-align: center; transform: rotate(-45deg);">           Particle Size Anal            Wet Stage         </div>					REMARKS
1801.0442		RPK								
SAMPLERS: (Signature)				1	1					Rnd 3
Bill Green										
DATE	TIME	GRAB	STATION NUMBER/LOCATION							
8/6/96			ISA IG 080696 /							
			ISA ING 080696 AQ /							
			ISA IING 080696 /							
			ISA NIG 080696 /							
			ISA NING 080696 /							
			ISA NING 080696 AQ /							
			COL IG 080696 /							
			COL ING 080696 /							
			COL IING 080696 AQ /							
			COL NIG 080696 /							
			COL NING 080696 /							
			COL NING 080696 AQ /							
			ISA TOG 080696 /							
			ISA TONG 080696 /							
			ISA TONG 080696 AQ /							
			ISA NTOG 080696 /							Rnd 3
			ISA NTOG 080696 /							

Relinquished by:	Date/Time	Received by:	Relinquished by:	Date/Time	Received by:
<i>Bill Green</i>	8/14 8:00am				
Received for Laboratory by: <i>RPK</i>			Date:	8/14	Time: 8:00am



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CHAIN OF CUSTODY FORM

P 8/10

PROJ. NO.		LABORATORY NAME		TOTAL NO. OF CONTAINERS	<i>Particle Size Anal.</i> <i>Wet Sieve</i> <i>Hold for Verification</i>					REMARKS
1801.0442		RPK								
SAMPLERS: (Signature)										
<i>Bill [Signature]</i>										
DATE	TIME	GRAB	STATION NUMBER/LOCATION							
8/6/96			15A NTONG 080696 AQV	1	1					Rnd. 3
↓			15A TO Alley 080696			<del>X</del>				
			15A TO Alley 080696 AQ							
			16 IG 080696 ✓							
			16 ING 080696 ✓							
			16 WIG 080696 ✓							
			16 NING 080696 ✓							
			CO IG 080696 ✓							
			CO ING 080696 ✓							
			CONIG 080696 ✓							
			CONING 080696 ✓							
			16 TOG 080696 ✓							
			16 TONG 080696 ✓							
			16 NTOG 080696 ✓							
			16 NTONG 080696 ✓							
↓			16 TO Alley 080696	↓	↓	<del>X</del>				Rnd. 3
Relinquished by:		Date/Time	Received by:		Relinquished by:		Date/Time	Received by:		
<i>Bill [Signature]</i>		8/14 8:00am								
Received for Laboratory by: <i>[Signature]</i>					Date: 8/14/96		Time: 8:00am			



MONTGOMERY WATSON

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CHAIN OF CUSTODY FORM

P 9/10

PROJ. NO.		LABORATORY NAME		TOTAL NO. OF CONTAINERS	<i>Particle Size Anal.</i> <i>Wet Sieve</i> <i>Hold for Verification</i>					REMARKS	
1801.0442		RPK									
SAMPLERS: (Signature)				TOTAL NO. OF CONTAINERS						REMARKS	
<i>Bill Green</i>											
DATE	TIME	GRAB	STATION NUMBER/LOCATION	TOTAL NO. OF CONTAINERS						REMARKS	
8/7/96			15IG 080796 ✓	1	1						Rnd - 3
			15ING 080796 ✓								
			15NIG 080796 ✓								
			15NING 080796 ✓								
			ETG 080796 ✓								
			EING 080796 ✓								
			ENTG 080796 ✓								
			ENING 080796 ✓								
			20IG 080796 ✓								
			20NIG 080796 ✓								
			LKOTIG 080796 ✓								
			LKOTNIG 080796 ✓								
8/8/96			13TOG 080896 ✓								
			13TONG 080896 ✓								
			13NTOG 080896 ✓								
			13NTONG 080896 ✓								
			13TOAlly 080896 ✓			X					Rnd 3
Relinquished by:		Date/Time	Received by:		Relinquished by:		Date/Time	Received by:			
<i>Bill Green</i>		8/14 8:00am									
Received for Laboratory by: <i>Rob</i>					Date: 8/14/96		Time: 8:00am				



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Anchorage, Alaska

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CHAIN OF CUSTODY FORM

P 10/10

PROJ. NO.		LABORATORY NAME		TOTAL NO. OF CONTAINERS	<i>Partake Size Anal.</i> <i>wet Sieve</i> <i>Hold for Verification</i>				REMARKS
1801.0442		RPK							
SAMPLERS: (Signature)									
<i>Bill [Signature]</i>									
DATE	TIME	GRAB	STATION NUMBER/LOCATION						
8/8/96			KBIG 080896 /	1	1				Run 3
			KBING 080896 /						
			KDNIG 080896 /						
			KB NING 080896 /						
			9IG 080896 /						
			9ING 080896 /						
			9NIG 080896 /						
			9NING 080896 /						
			KB <del>IG</del> TOG 080896 /						
			KD <del>ING</del> TONG 080896 /						
			KB <del>ING</del> NTONG 080896 /						
			KD <del>ING</del> NTONG 080896 /						
			KD <del>ING</del> TO Alley 080896 /				X		
8/12/96			21 <del>ING</del> IG 081296 /						
			21 <del>ING</del> ING 081296 /						
			21 NIG 081296 /						
			21 NING 081296 /						Run 3
Relinquished by:		Date/Time	Received by:		Relinquished by:		Date/Time	Received by:	
<i>[Signature]</i>		8/14 8:00am							
Received for Laboratory by: <i>[Signature]</i>					Date: 8/14/96		Time: 8:00am		