SECTION 9
ITEM #
DATE 9/1994

SAN JOAQUIN RIVER TRIBUTARIES SPAWNING GRAVEL ASSESSMENT

STANISLAUS, TUOLUMNE, AND MERCED RIVERS

APPENDIX A

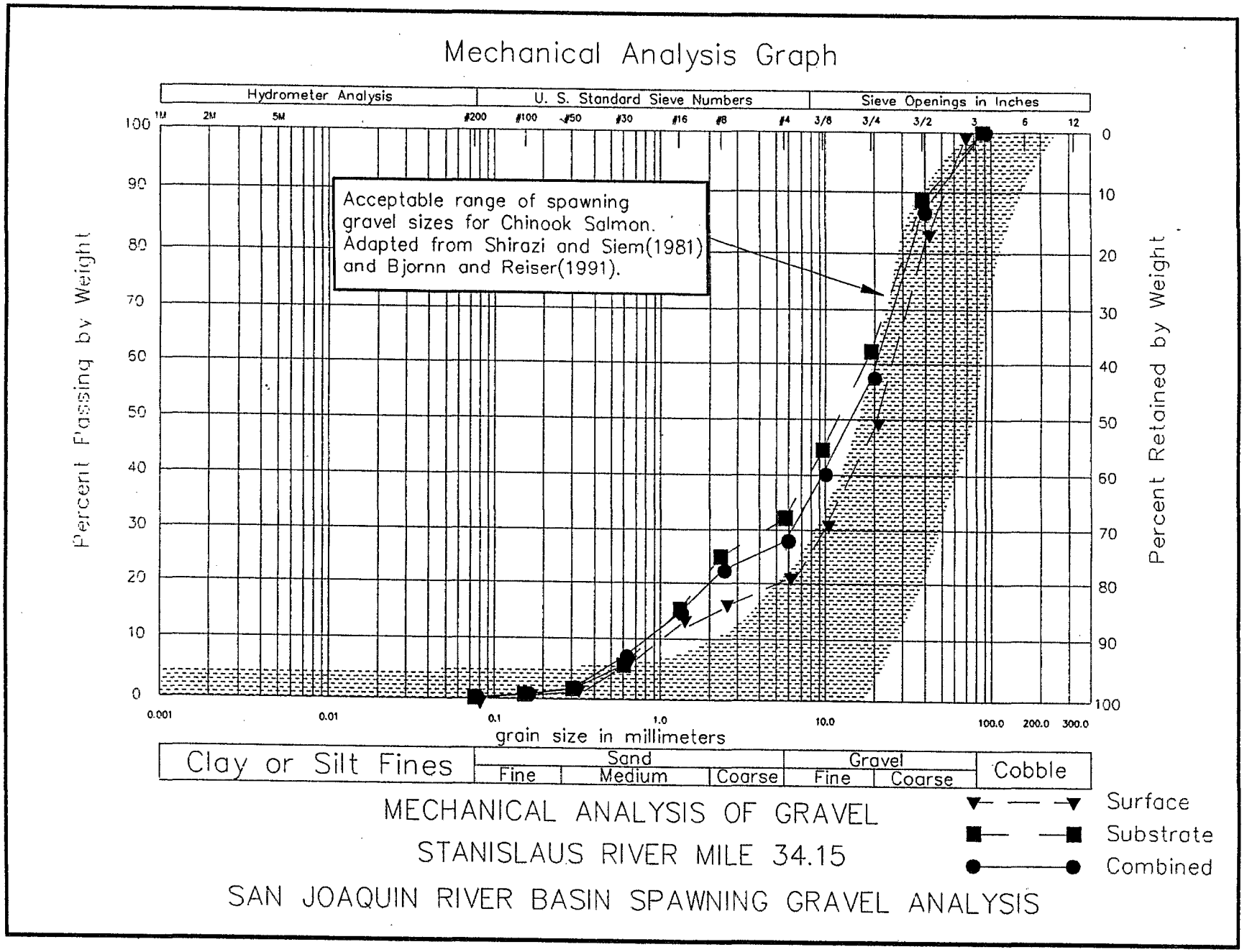
GRADATION CURVES

SEPTEMBER 1994

LIBRARY COPY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT

C-104752

C-104752



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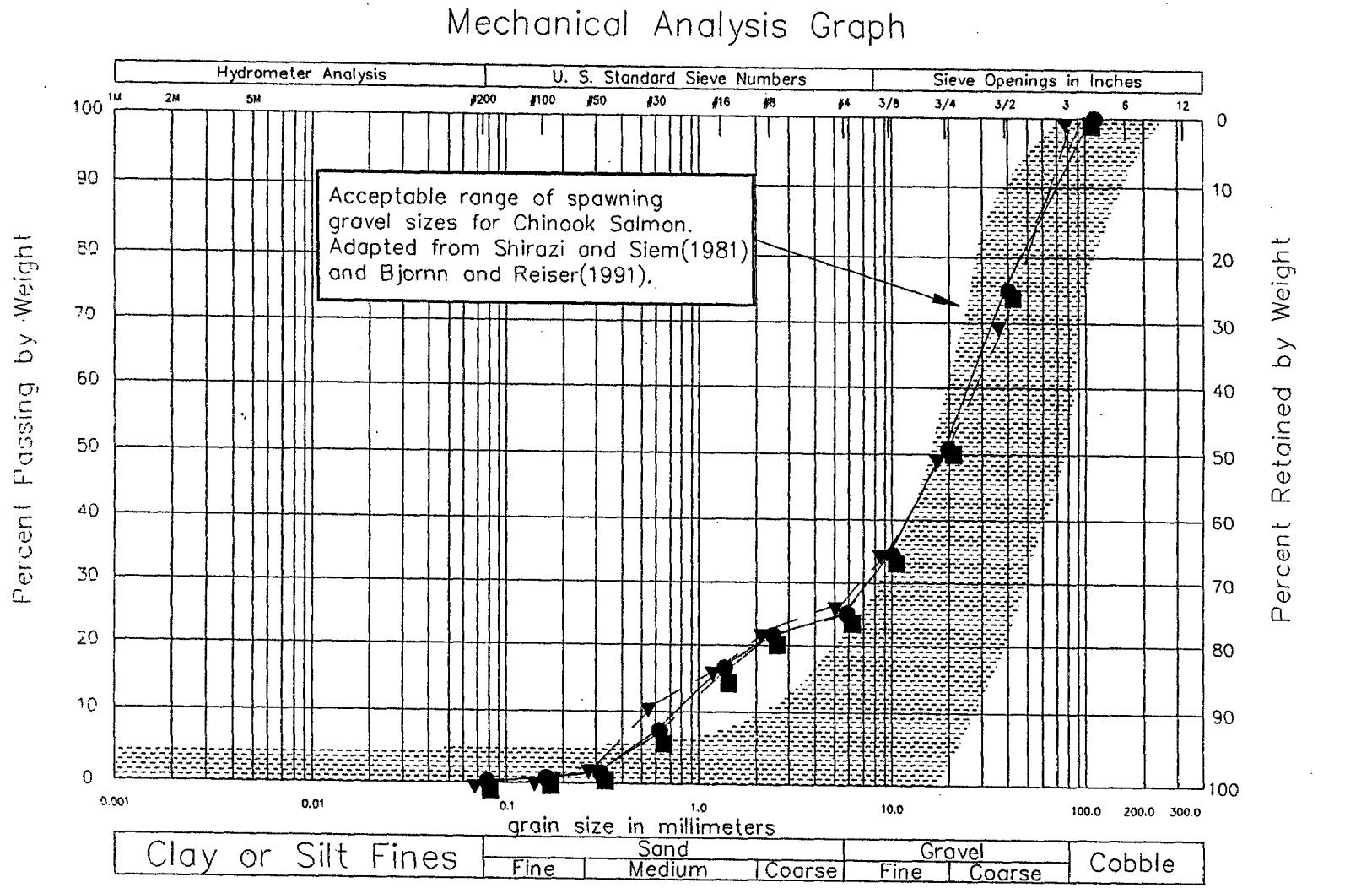

MECHANICAL ANALYSIS OF GRAVEL

STANISLAUS RIVER MILE 36.0

SAN JOAQUIN RIVER BASIN SPAWNING GRAVEL ANALYSIS

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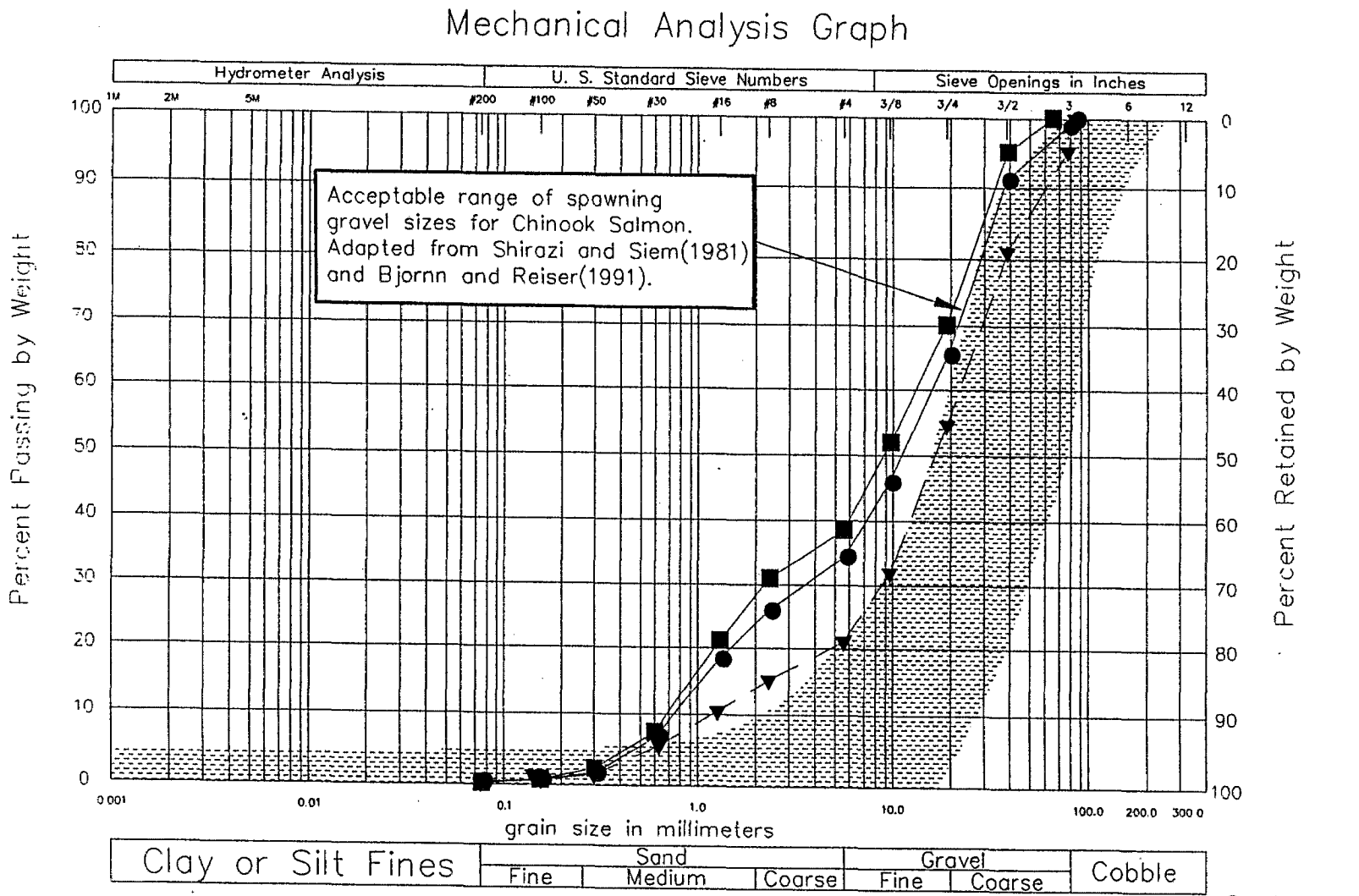

MECHANICAL ANALYSIS OF GRAVEL

STANISLAUS RIVER MILE 38.0

SAN JOAQUIN RIVER BASIN SPAWNING GRAVEL ANALYSIS

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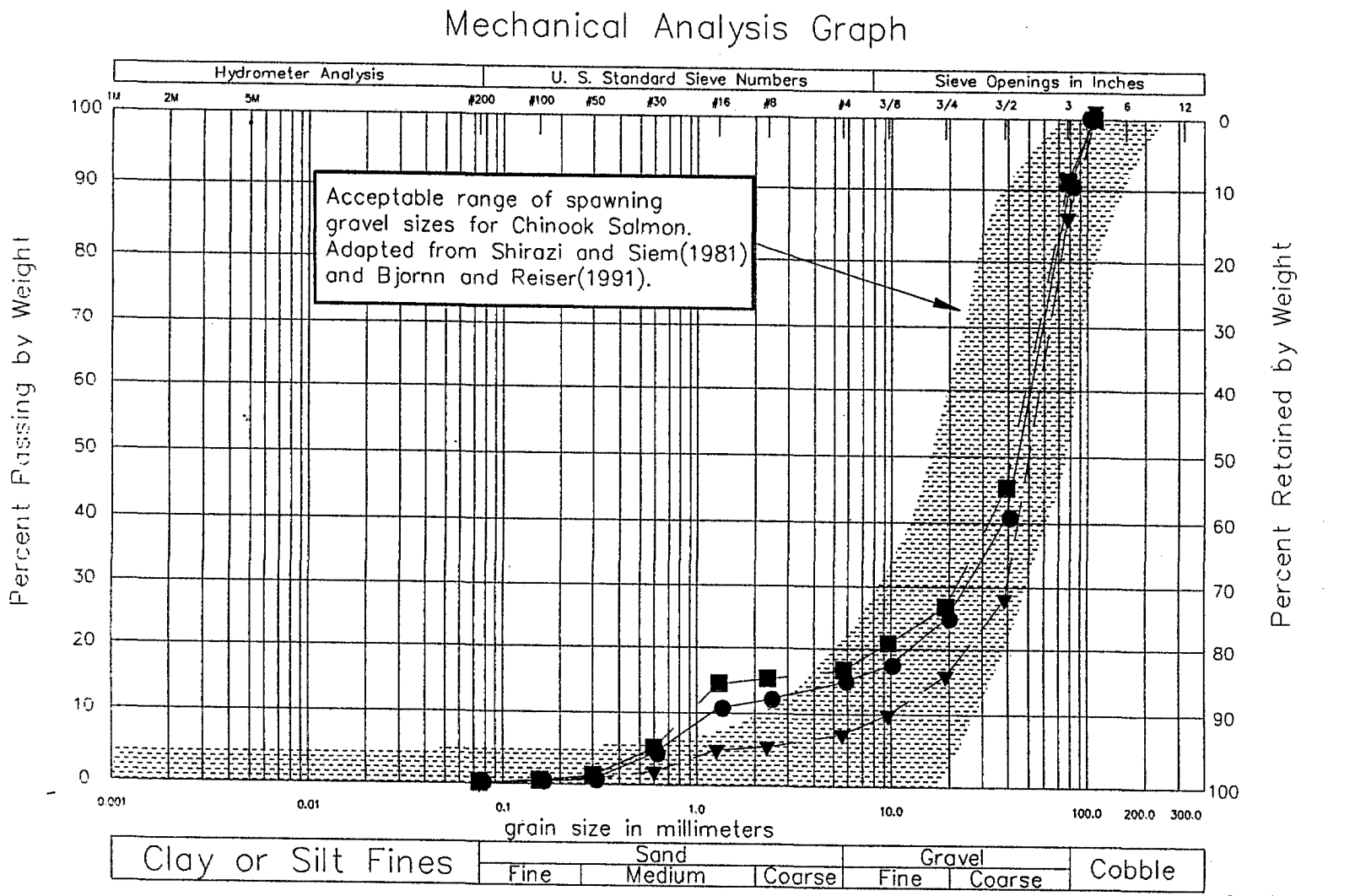

MECHANICAL ANALYSIS OF GRAVEL

STANISLAUS RIVER MILE 40.2

SAN JOAQUIN RIVER BASIN SPAWNING GRAVEL ANALYSIS

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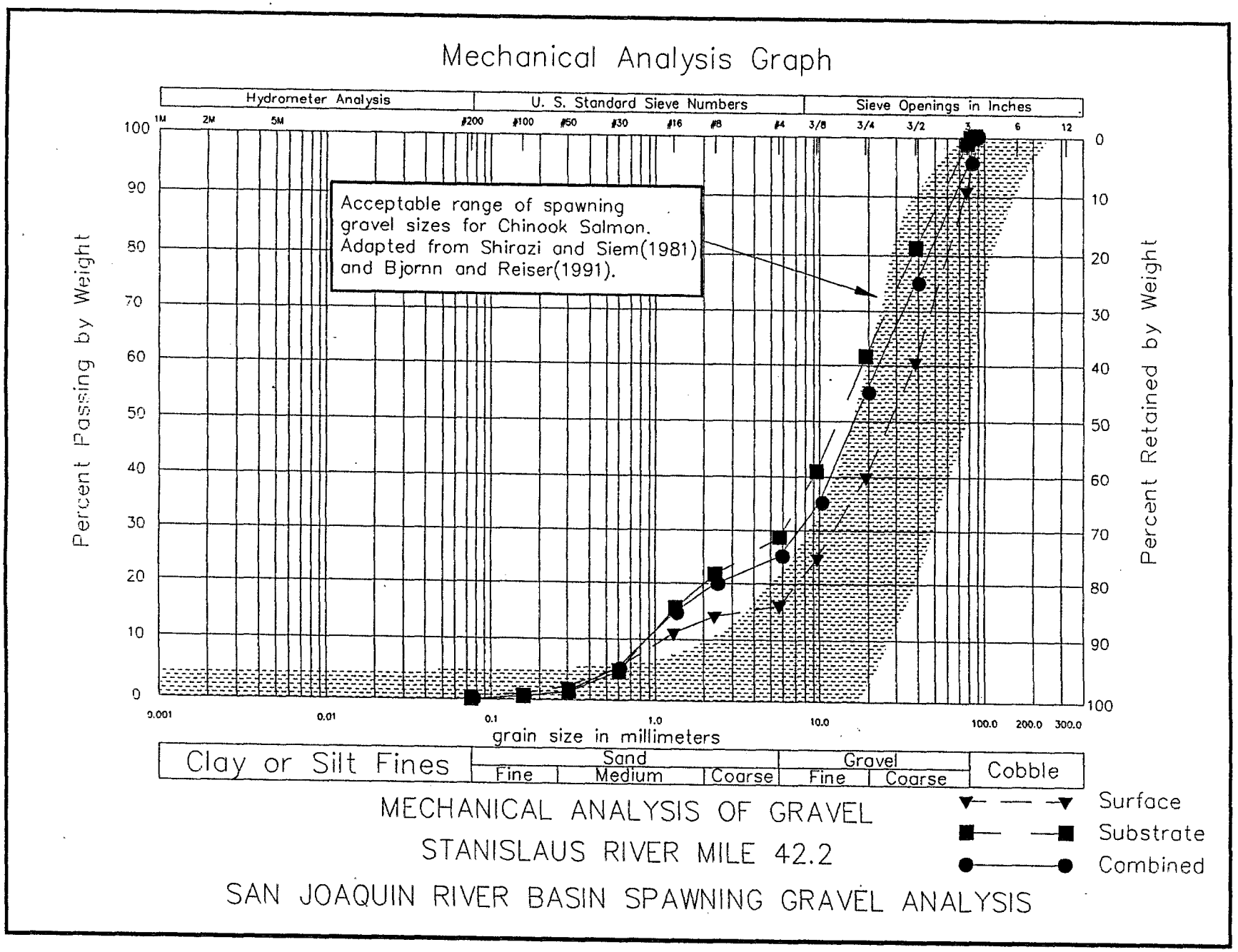

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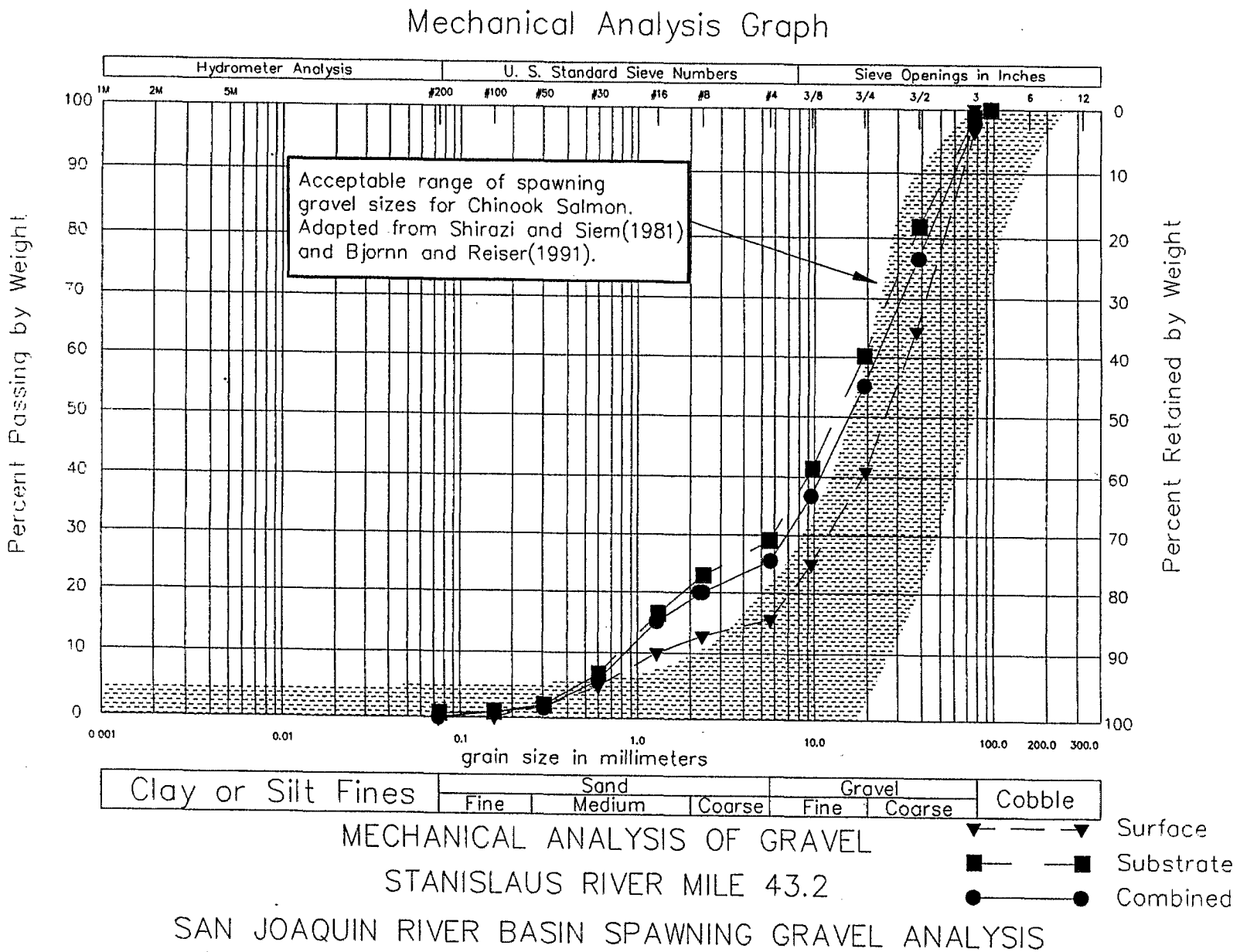

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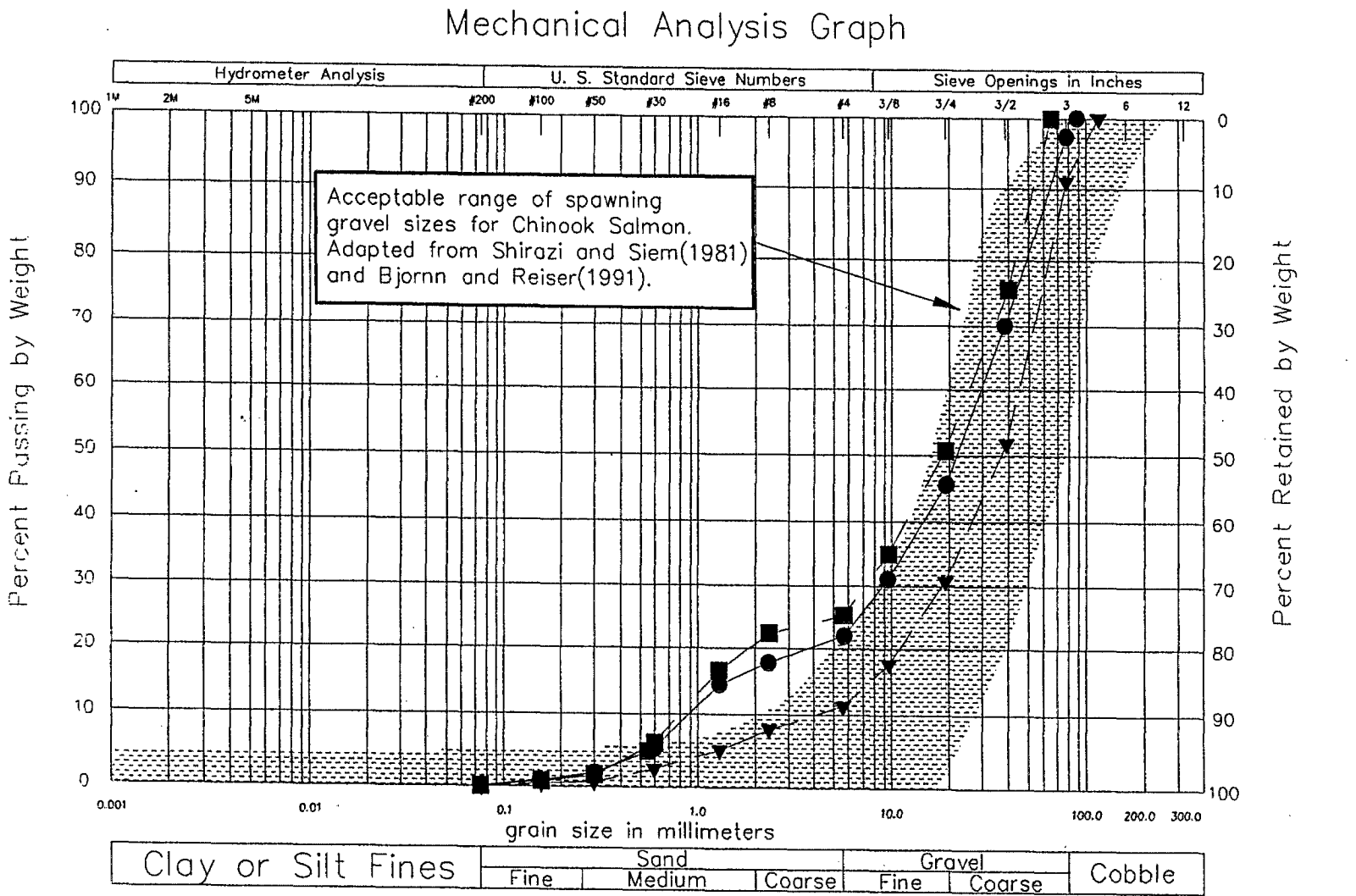

MECHANICAL ANALYSIS OF GRAVEL

STANISLAUS RIVER MILE 44.2

SAN JOAQUIN RIVER BASIN SPAWNING GRAVEL ANALYSIS

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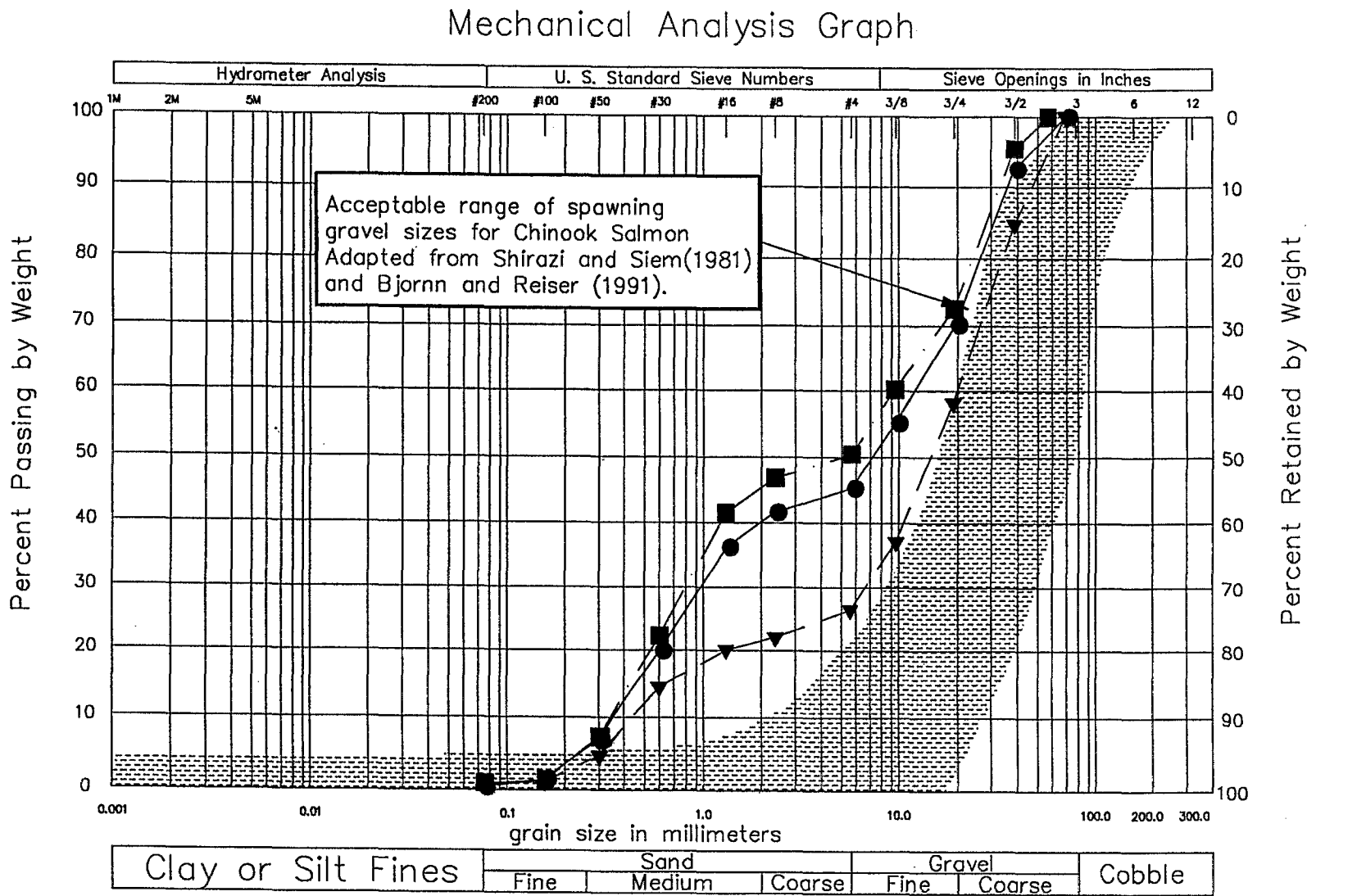

MECHANICAL ANALYSIS OF GRAVEL

STANISLAUS RIVER MILE 44.7

SAN JOAQUIN RIVER BASIN SPAWNING GRAVEL ANALYSIS

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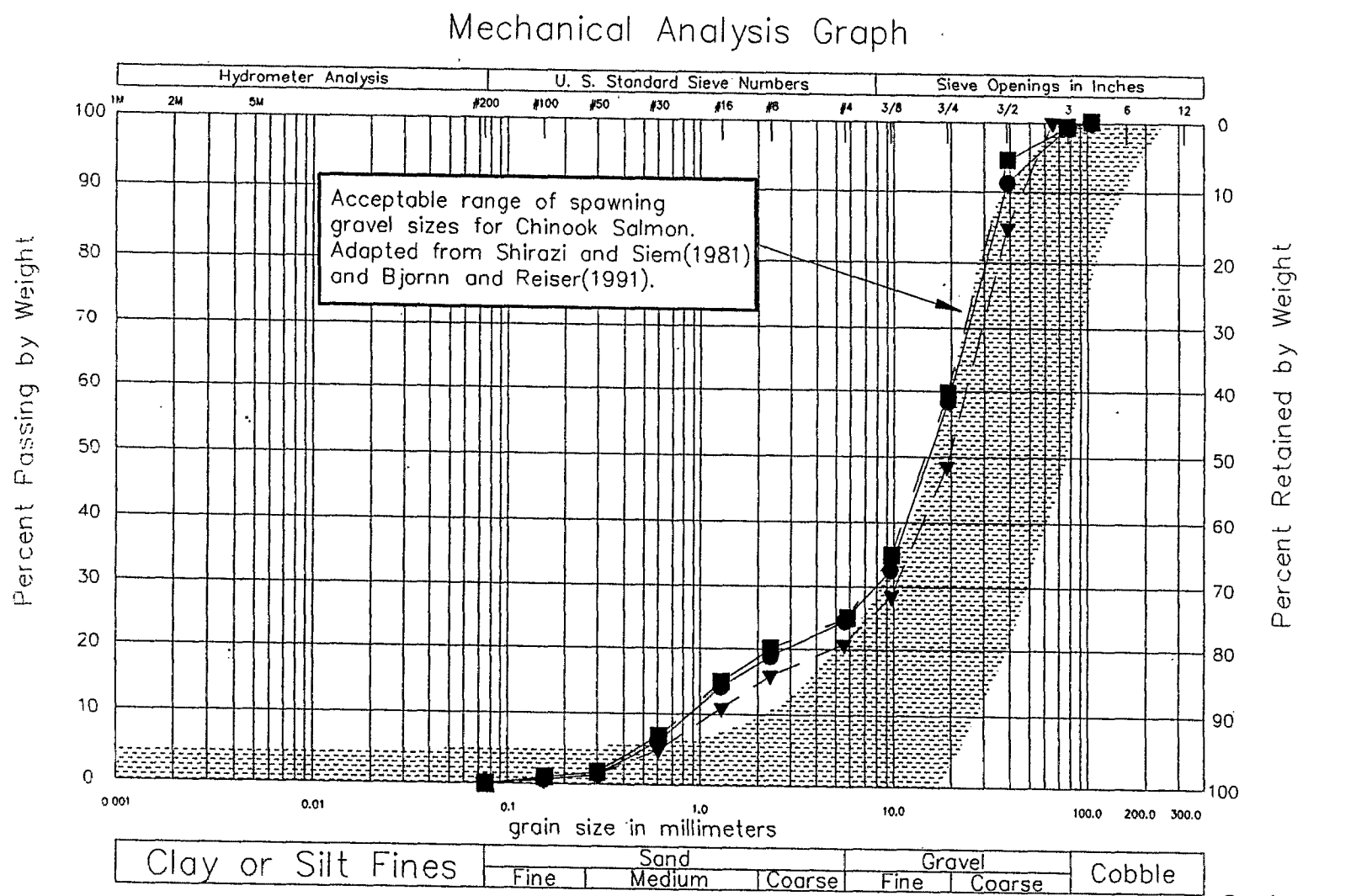

MECHANICAL ANALYSIS OF GRAVEL

STANISLAUS RIVER MILE 45.2

SAN JOAQUIN RIVER BASIN SPAWNING GRAVEL ANALYSIS

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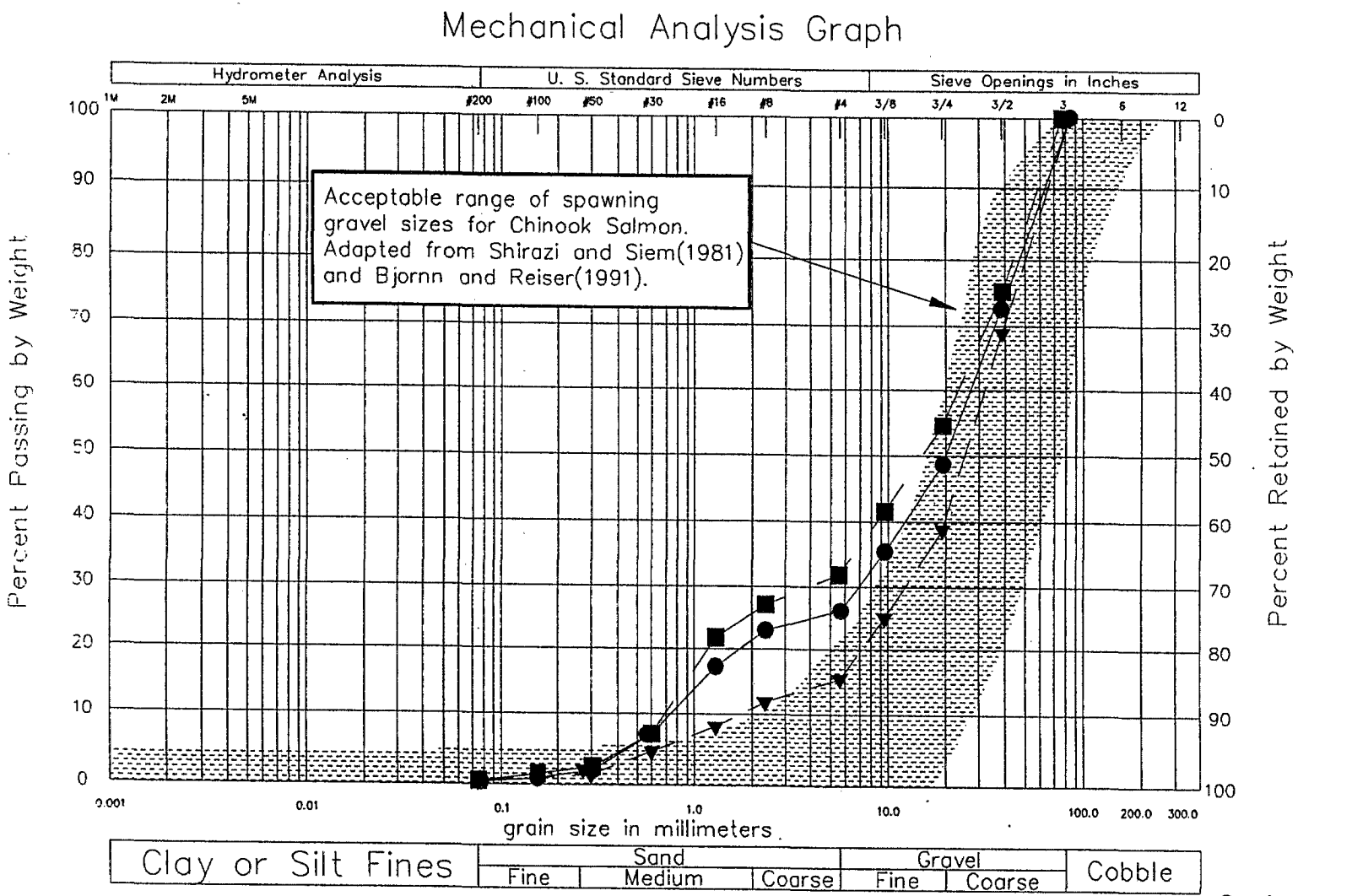

MECHANICAL ANALYSIS OF GRAVEL

STANISLAUS RIVER MILE 47.0

SAN JOAQUIN RIVER BASIN SPAWNING GRAVEL ANALYSIS

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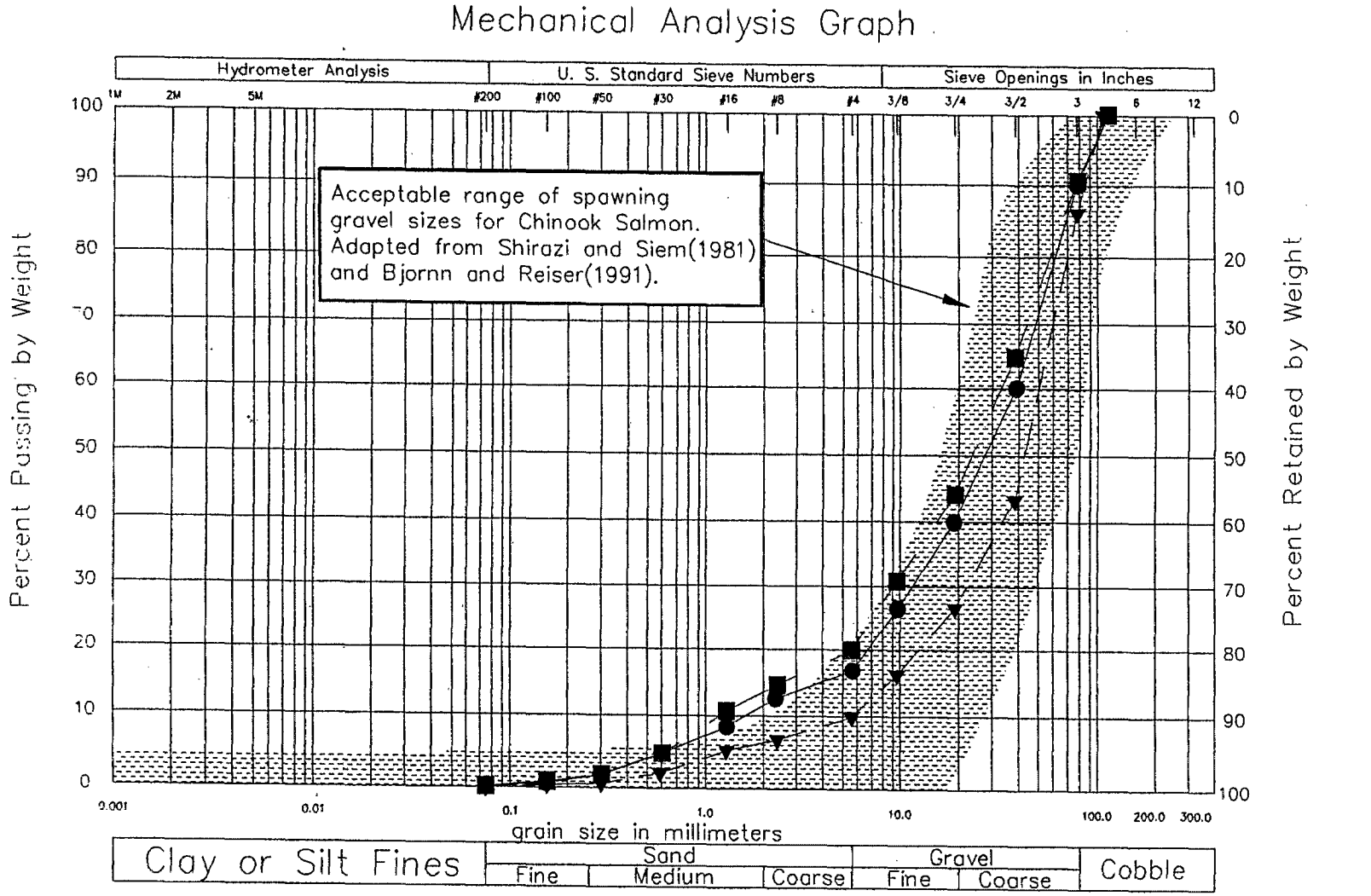

MECHANICAL ANALYSIS OF GRAVEL

STANISLAUS RIVER MILE 47.3

SAN JOAQUIN RIVER BASIN SPAWNING GRAVEL ANALYSIS

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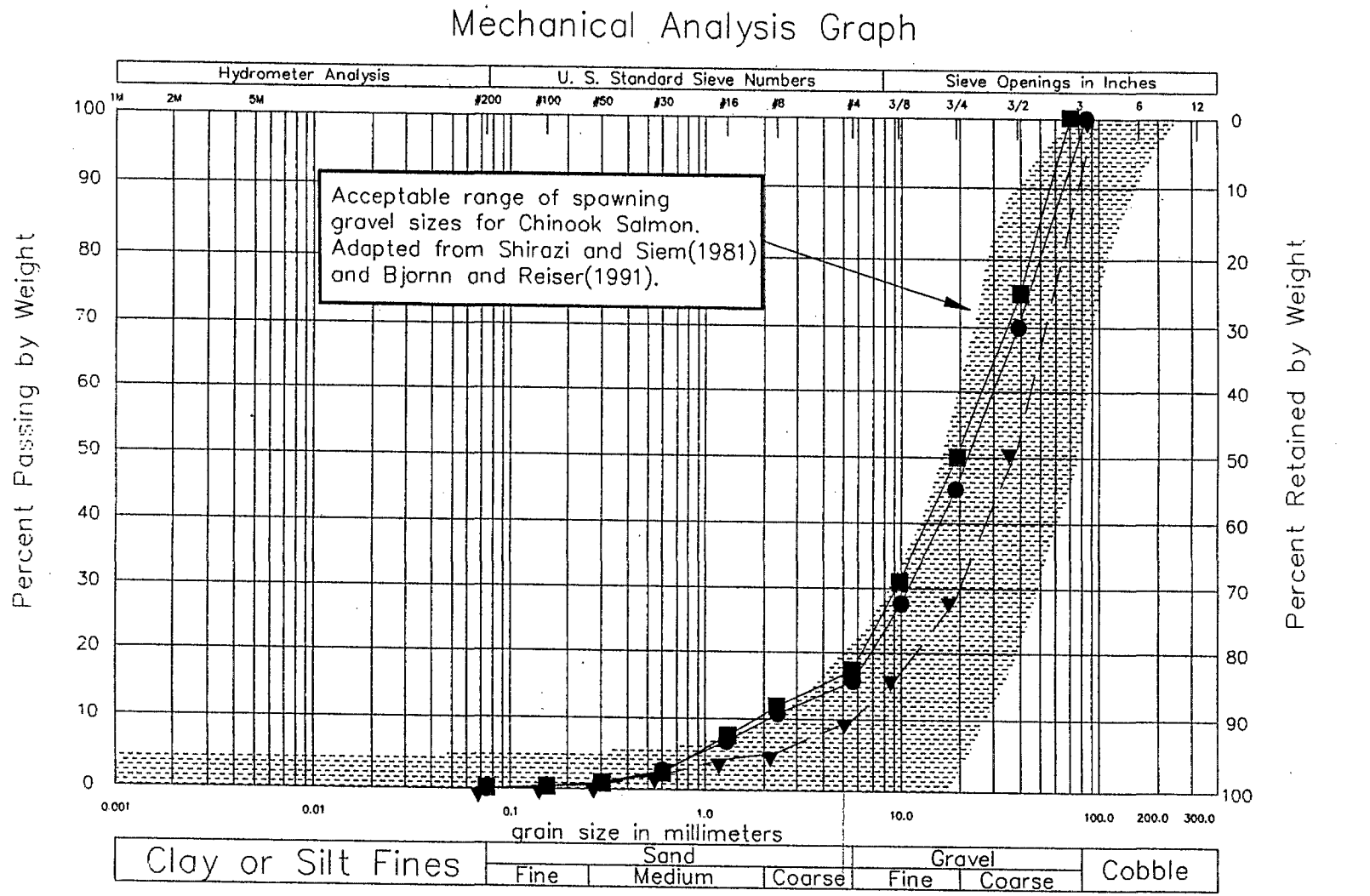

MECHANICAL ANALYSIS OF GRAVEL

STANISLAUS RIVER MILE 48.8

SAN JOAQUIN RIVER BASIN SPAWNING GRAVEL ANALYSIS

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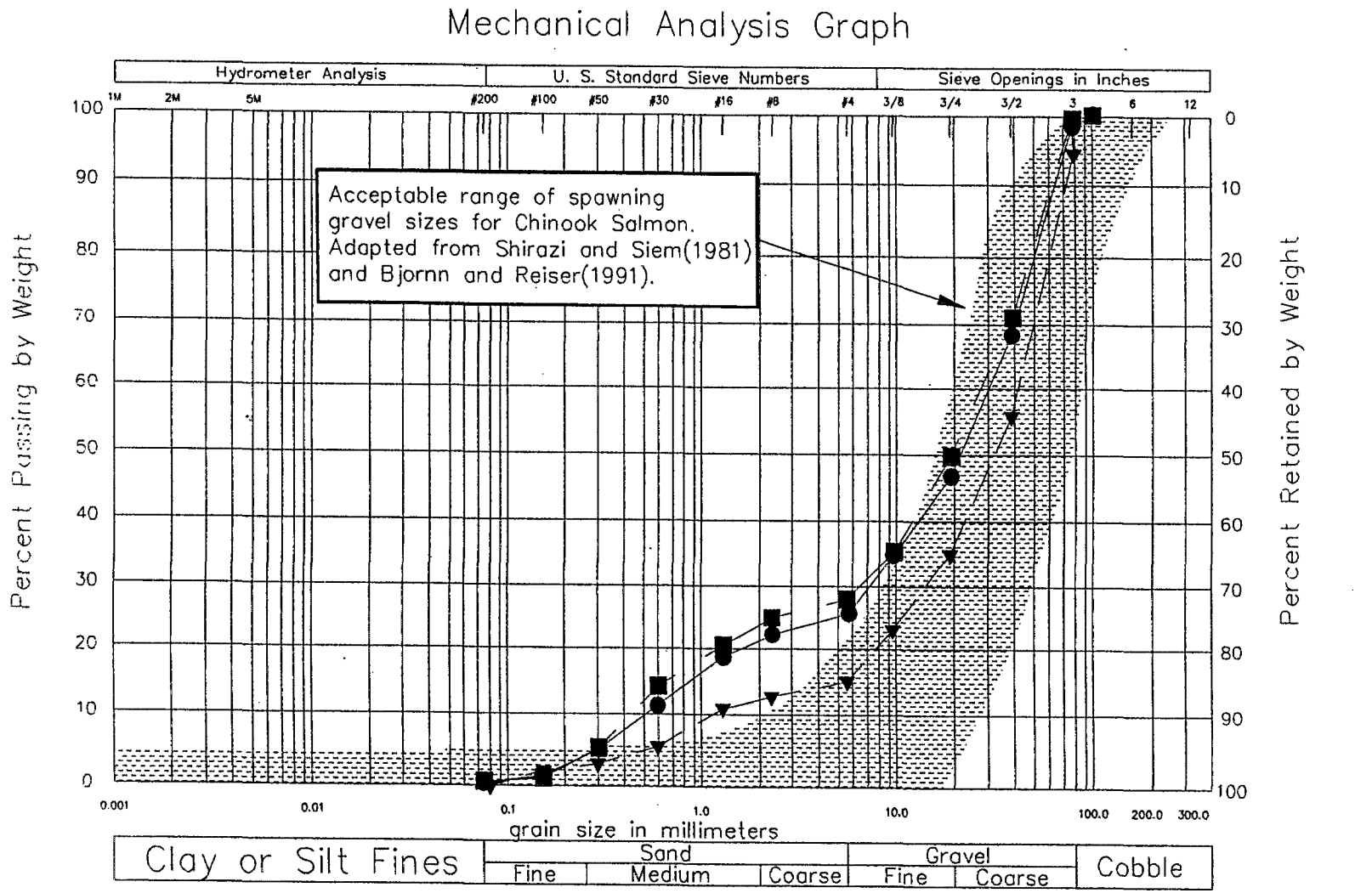

MECHANICAL ANALYSIS OF GRAVEL

STANISLAUS RIVER MILE 49.2

SAN JOAQUIN RIVER BASIN SPAWNING GRAVEL ANALYSIS

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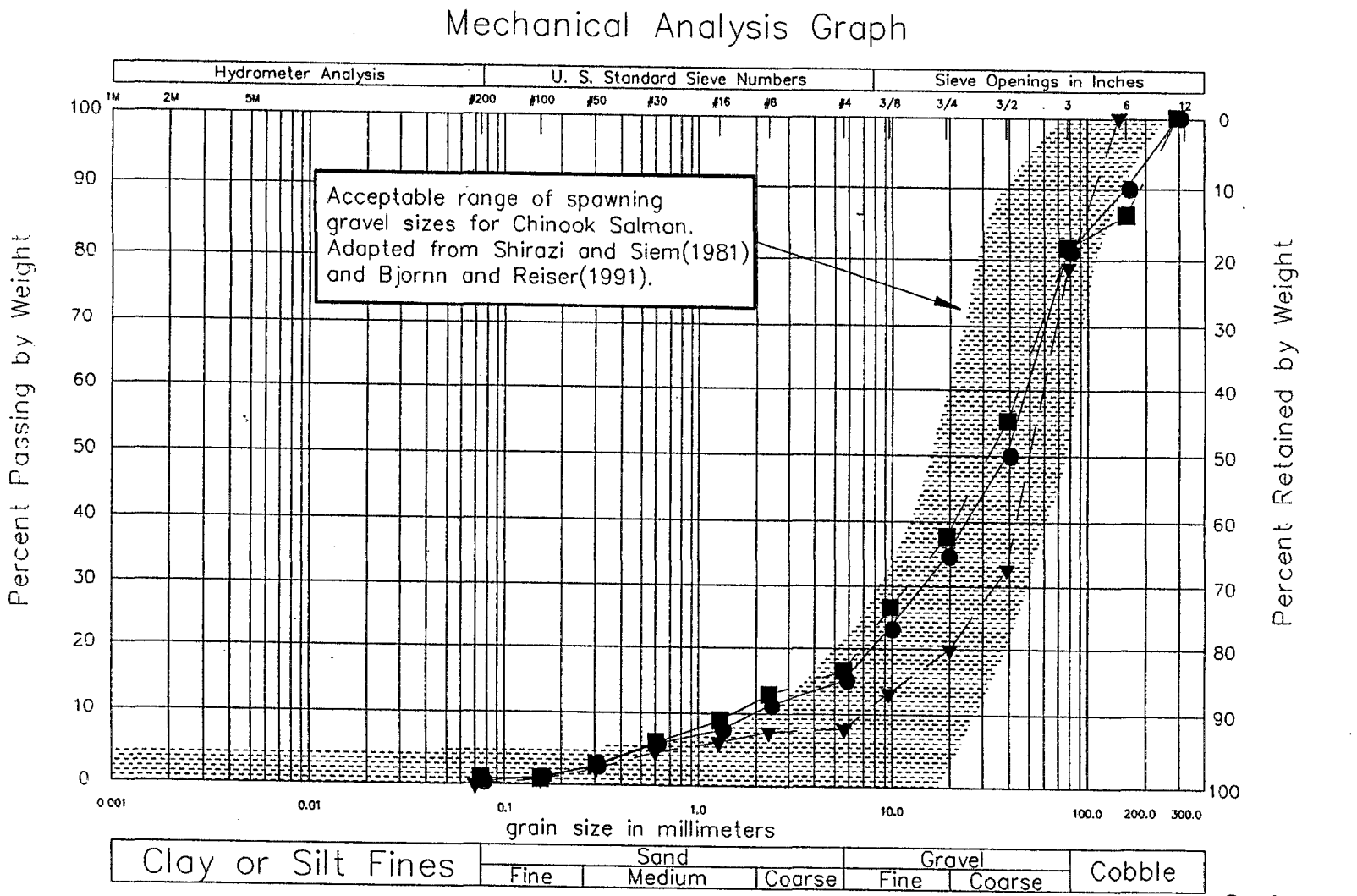

MECHANICAL ANALYSIS OF GRAVEL

STANISLAUS RIVER MILE 49.4

SAN JOAQUIN RIVER BASIN SPAWNING GRAVEL ANALYSIS

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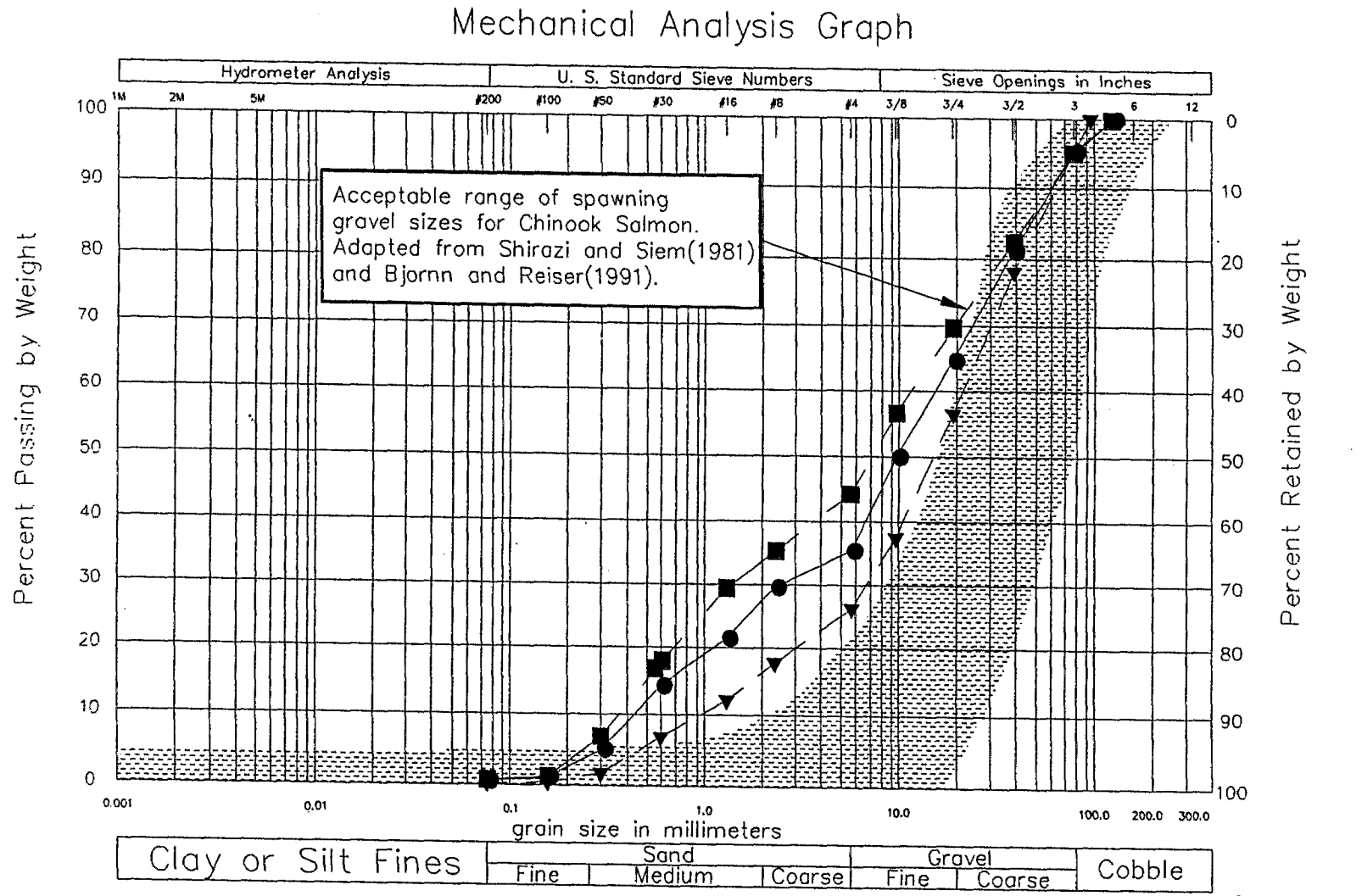

MECHANICAL ANALYSIS OF GRAVEL

STANISLAUS RIVER MILE 49.7

SAN JOAQUIN RIVER BASIN SPAWNING GRAVEL ANALYSIS

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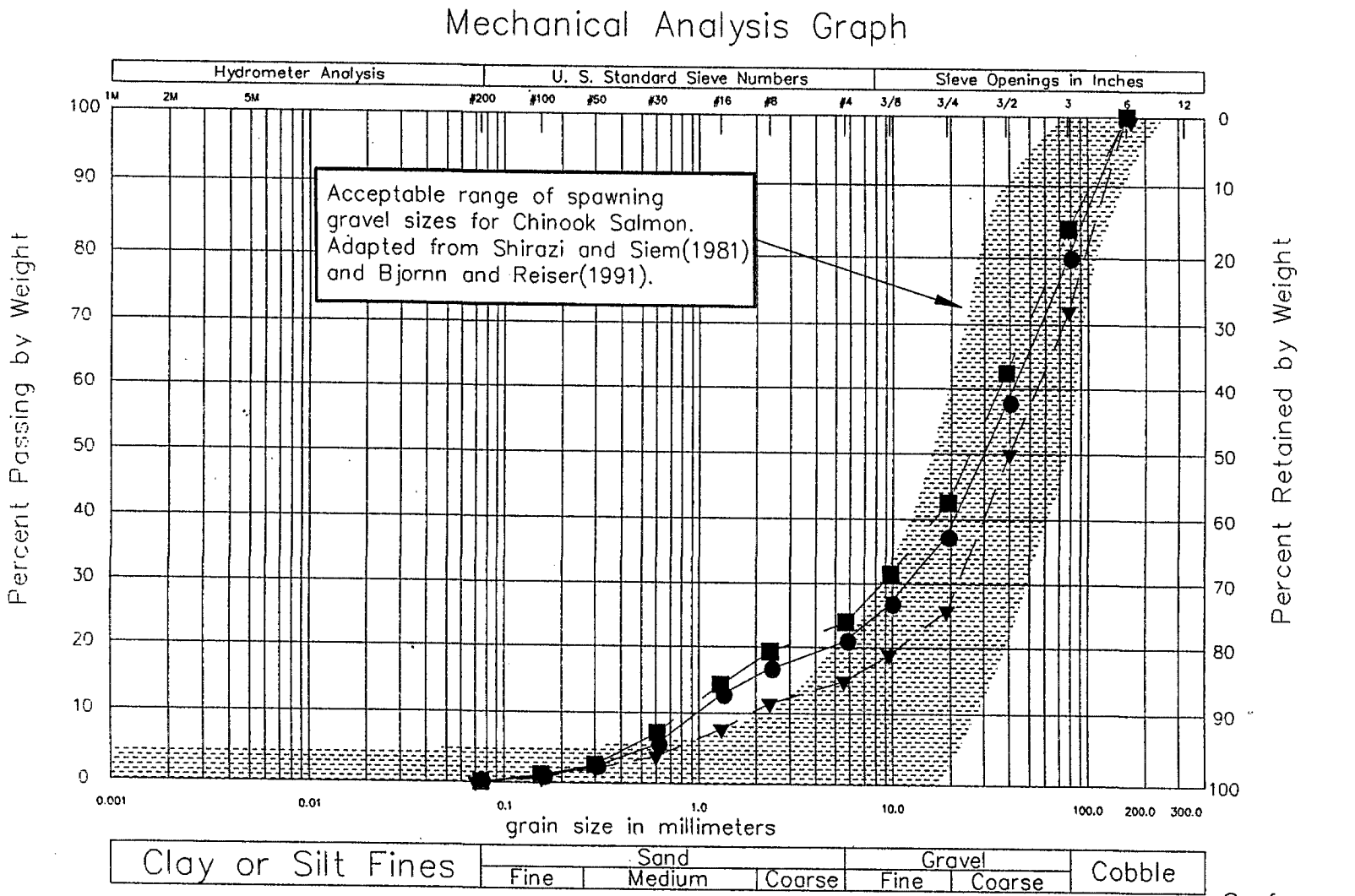

MECHANICAL ANALYSIS OF GRAVEL

STANISLAUS RIVER MILE 50.9

SAN JOAQUIN RIVER BASIN SPAWNING GRAVEL ANALYSIS

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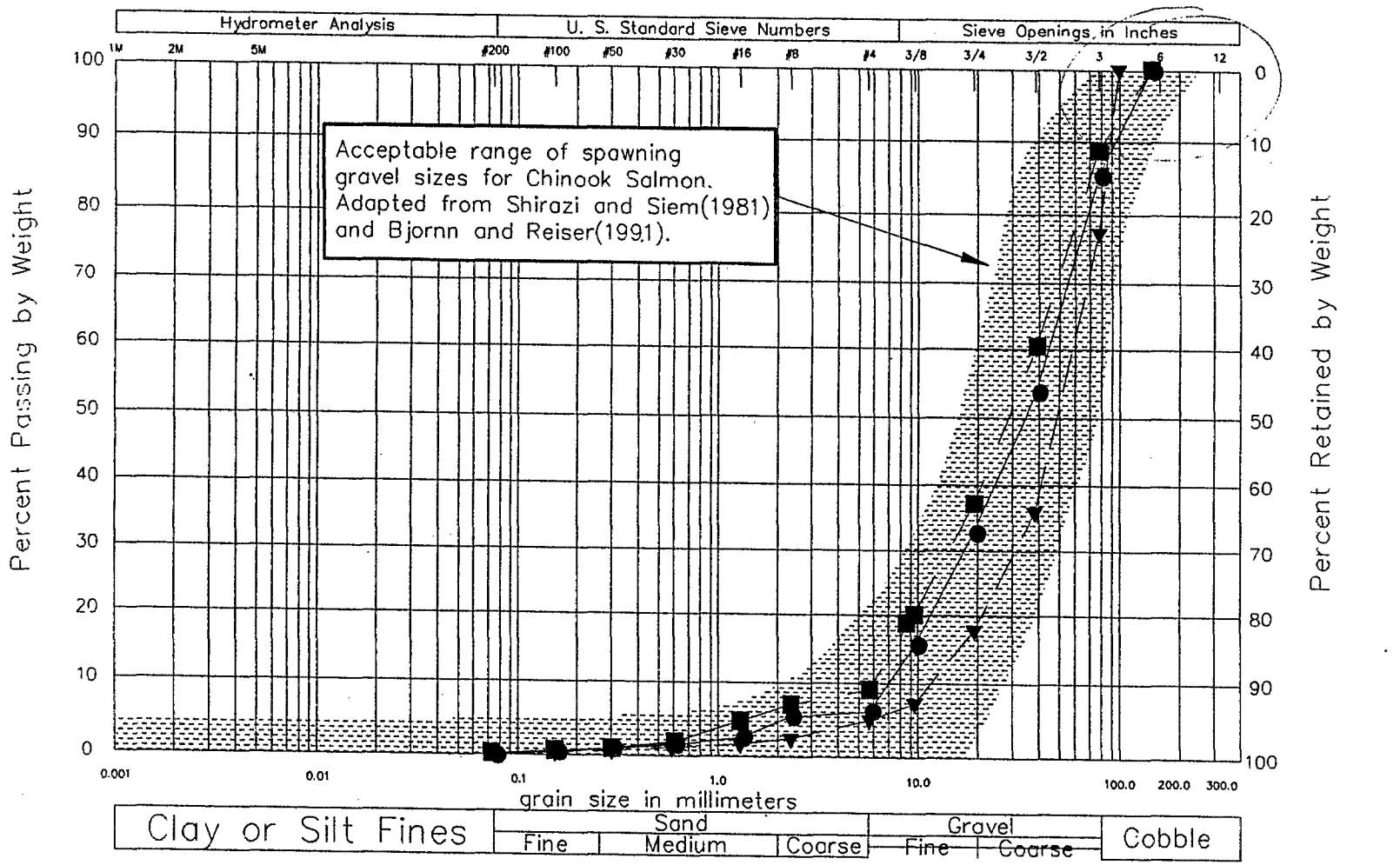
Mechanical Analysis Graph



MECHANICAL ANALYSIS OF GRAVEL

STANISLAUS RIVER MILE 51.4

SAN JOAQUIN RIVER BASIN SPAWNING GRAVEL ANALYSIS

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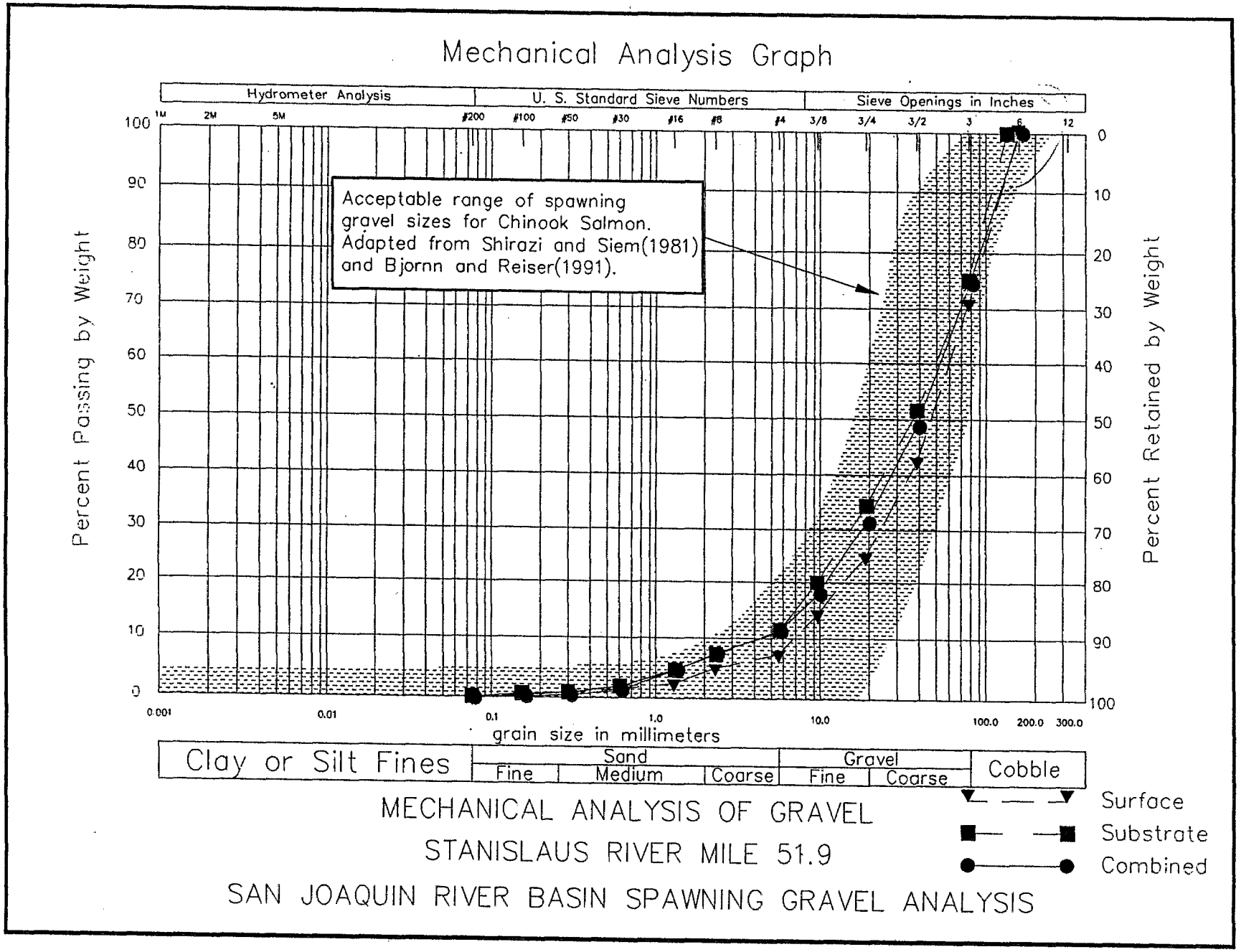

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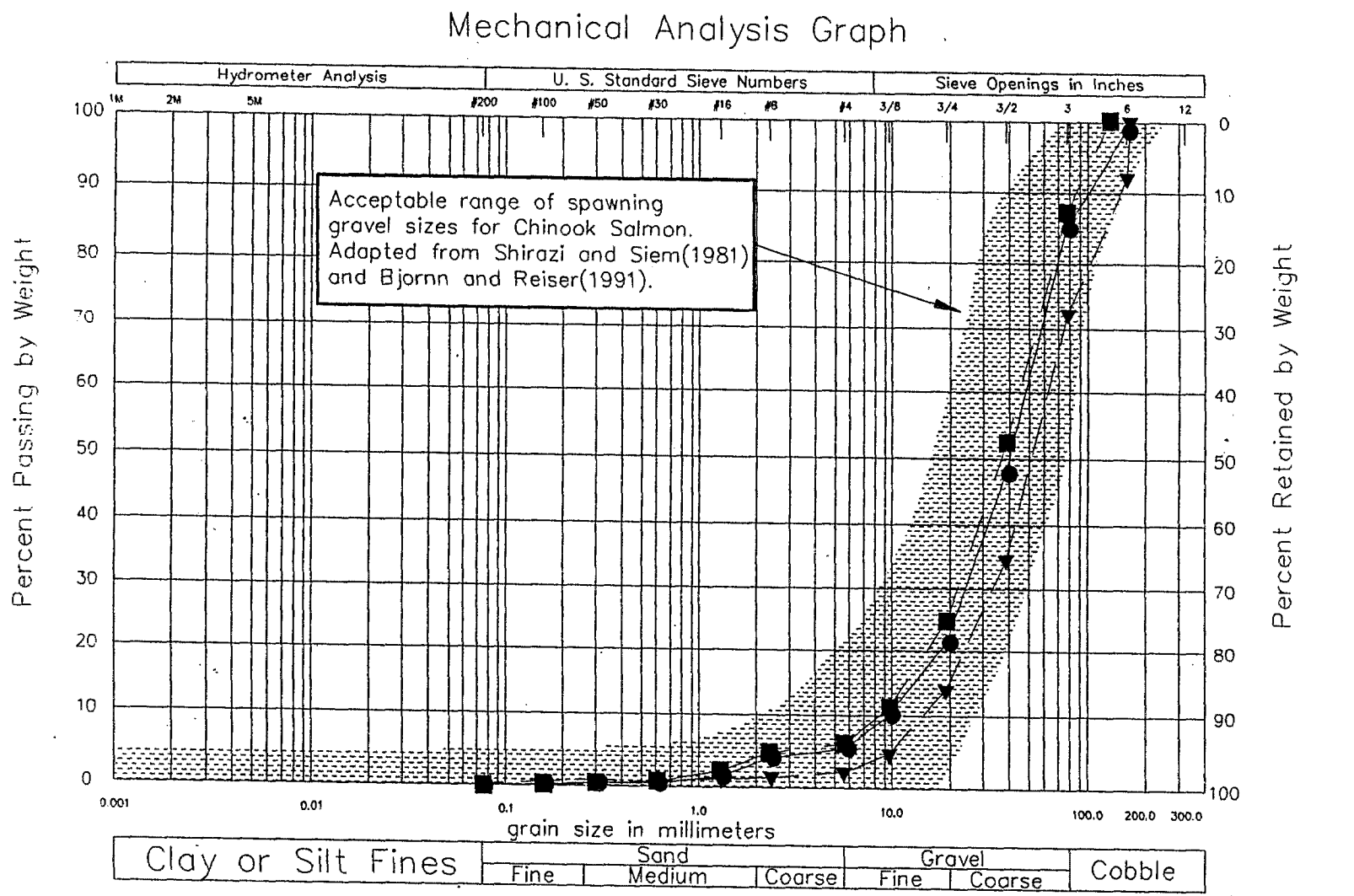

MECHANICAL ANALYSIS OF GRAVEL

STANISLAUS RIVER MILE 52.5

SAN JOAQUIN RIVER BASIN SPAWNING GRAVEL ANALYSIS

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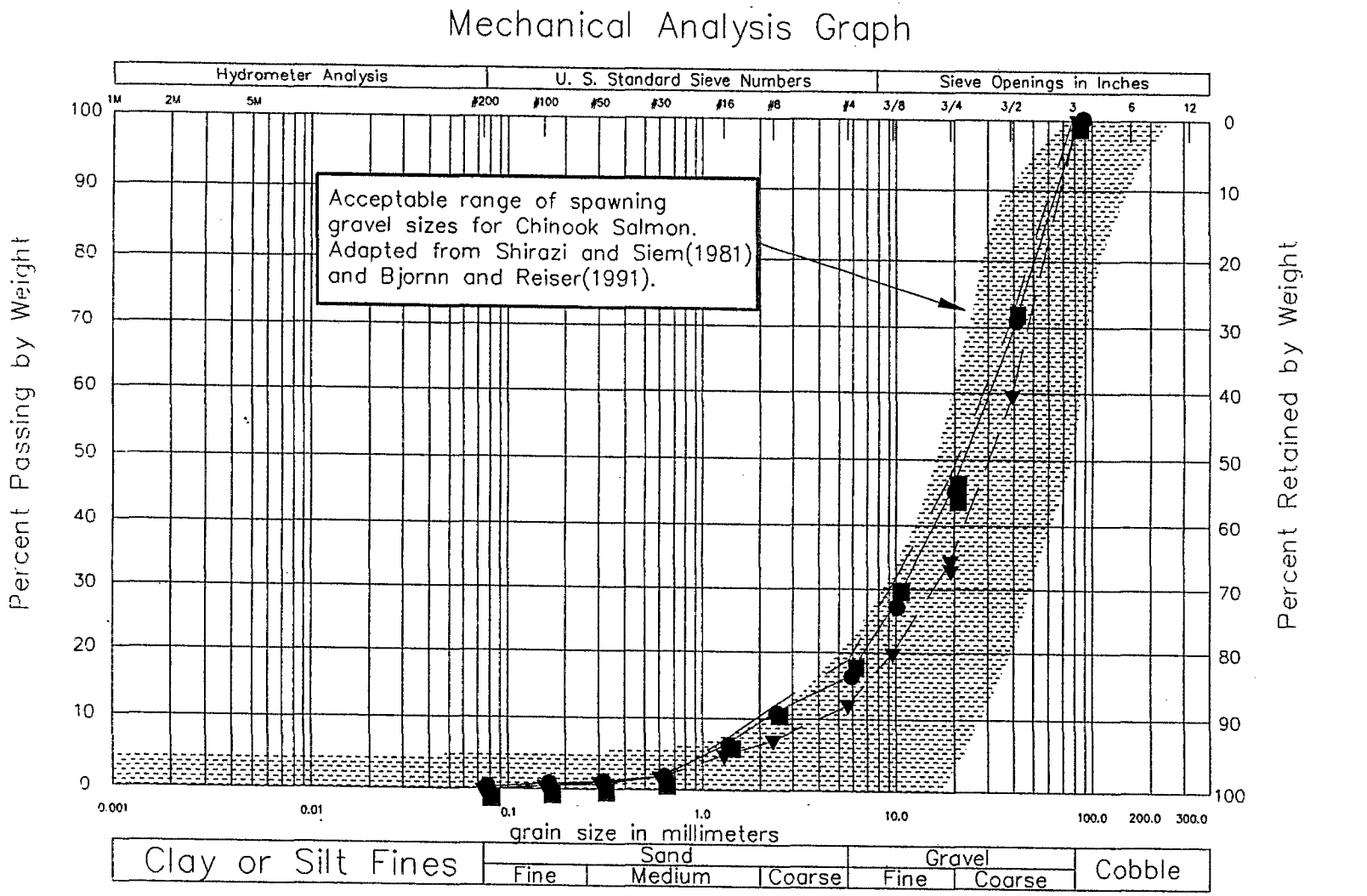

MECHANICAL ANALYSIS OF GRAVEL

STANISLAUS RIVER MILE 53.3

SAN JOAQUIN RIVER BASIN SPAWNING GRAVEL ANALYSIS

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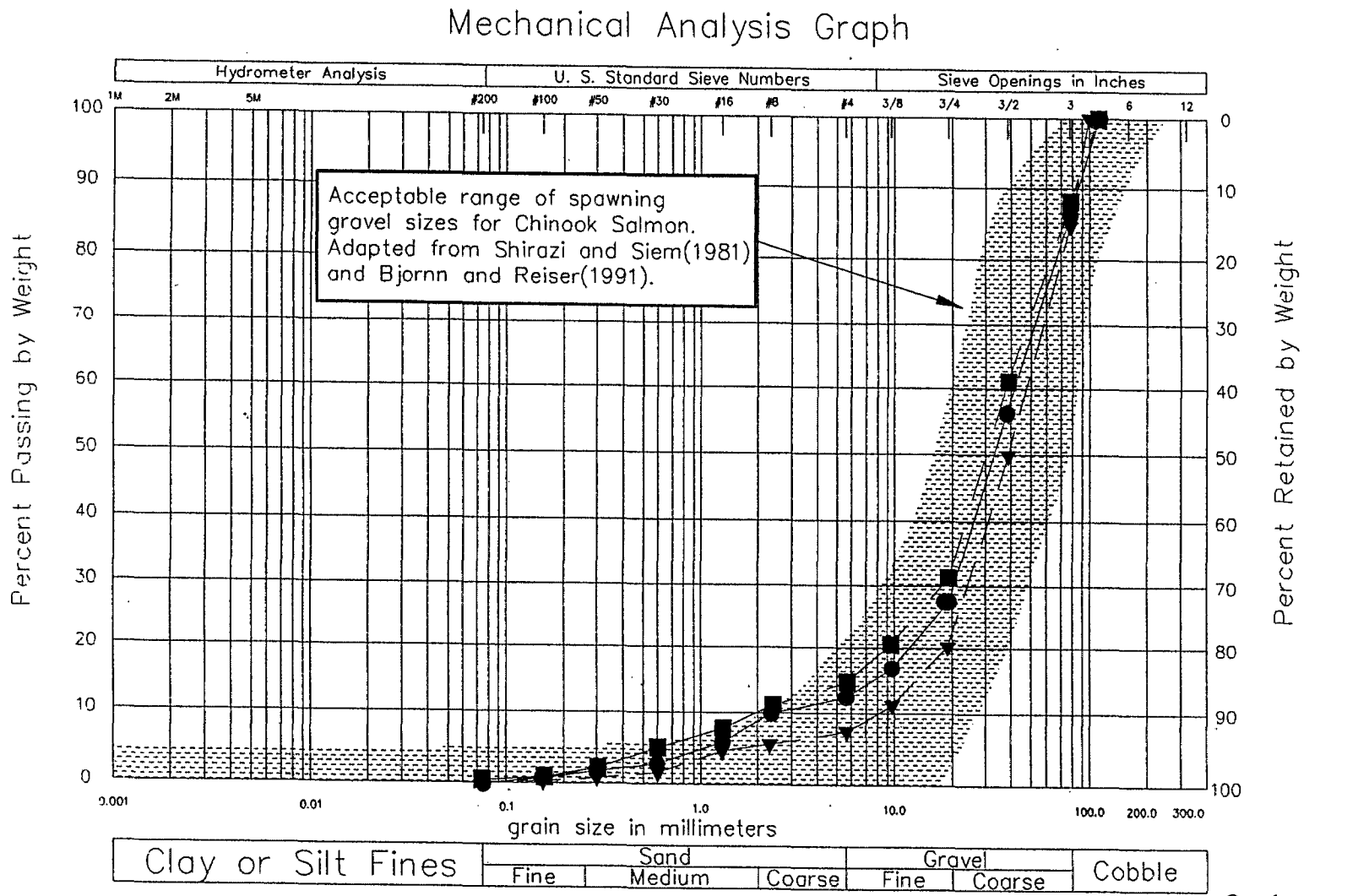

MECHANICAL ANALYSIS OF GRAVEL

STANISLAUS RIVER MILE 53.4

SAN JOAQUIN RIVER BASIN SPAWNING GRAVEL ANALYSIS

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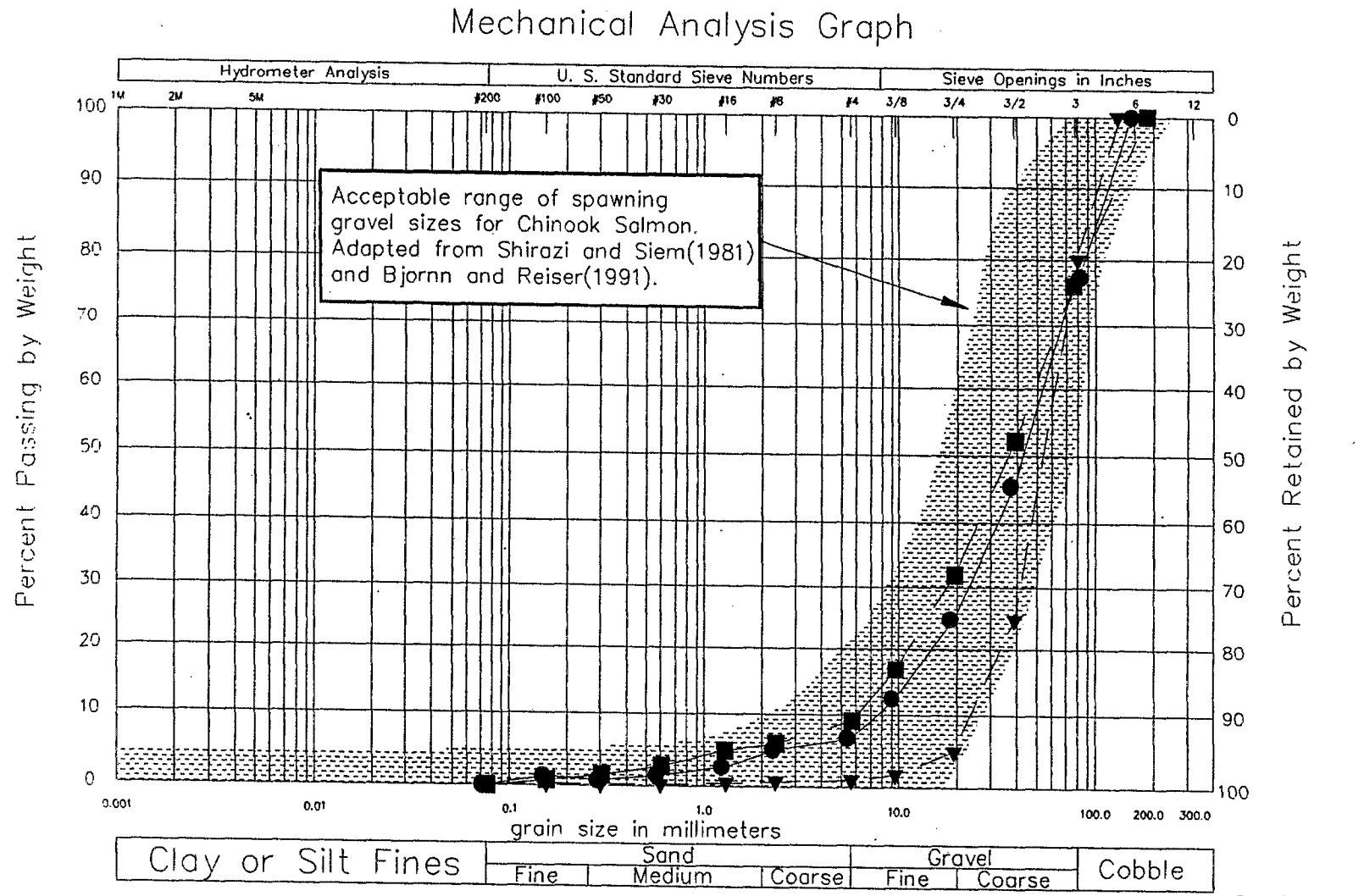

MECHANICAL ANALYSIS OF GRAVEL

STANISLAUS RIVER MILE 2MI

SAN JOAQUIN RIVER BASIN SPAWNING GRAVEL ANALYSIS

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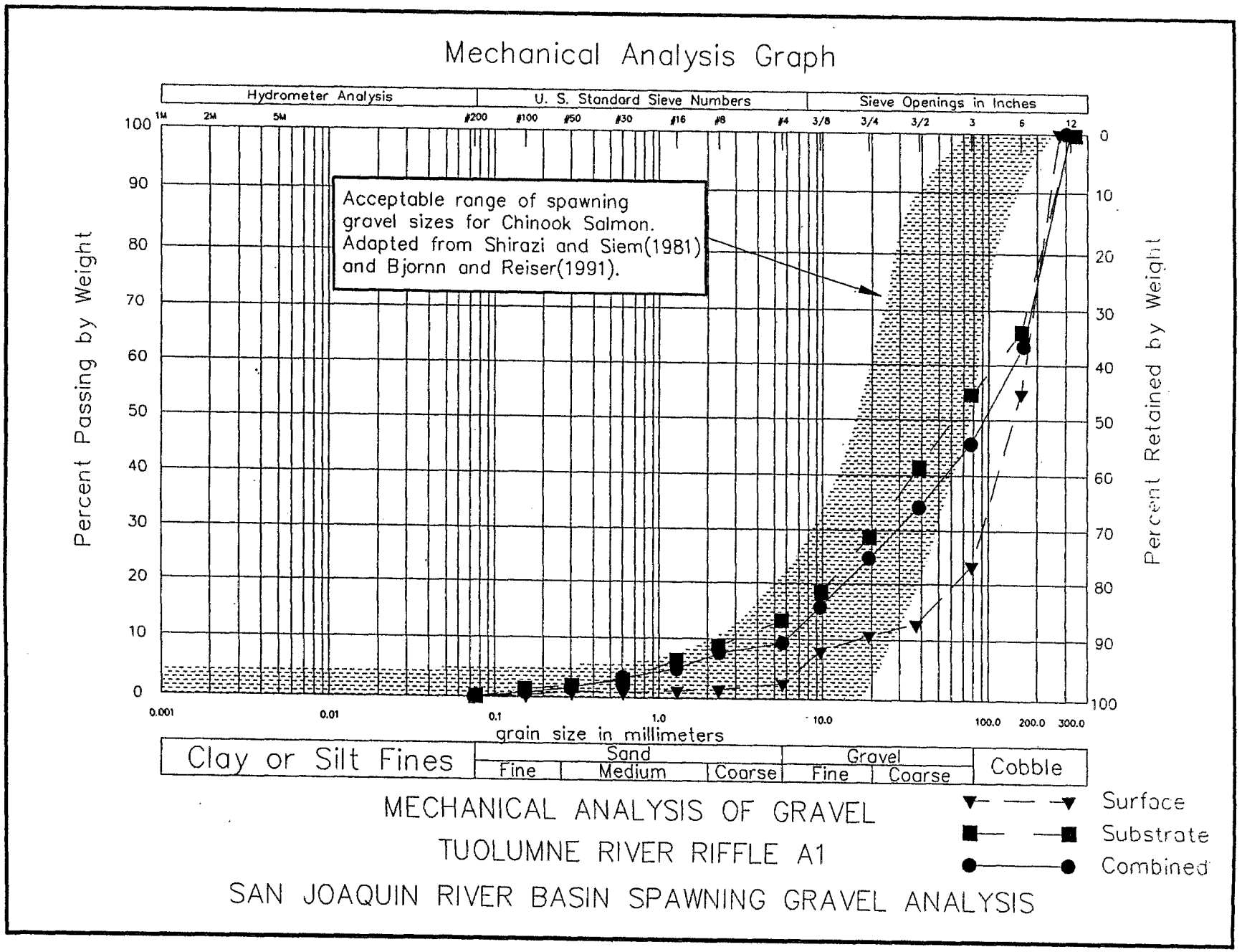

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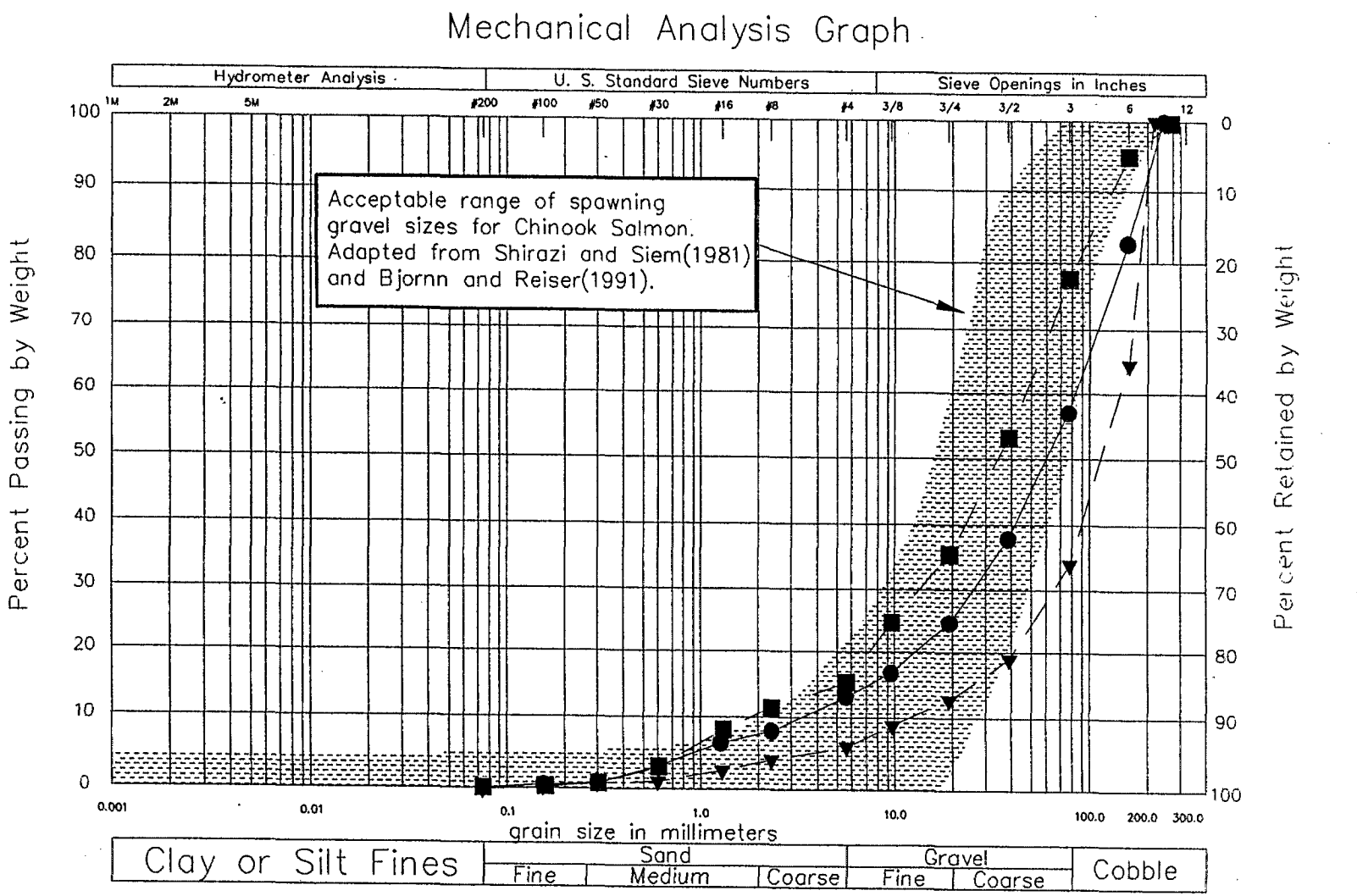

MECHANICAL ANALYSIS OF GRAVEL

TUOLUMNE RIVER RIFFLE A2

SAN JOAQUIN RIVER BASIN SPAWNING GRAVEL ANALYSIS

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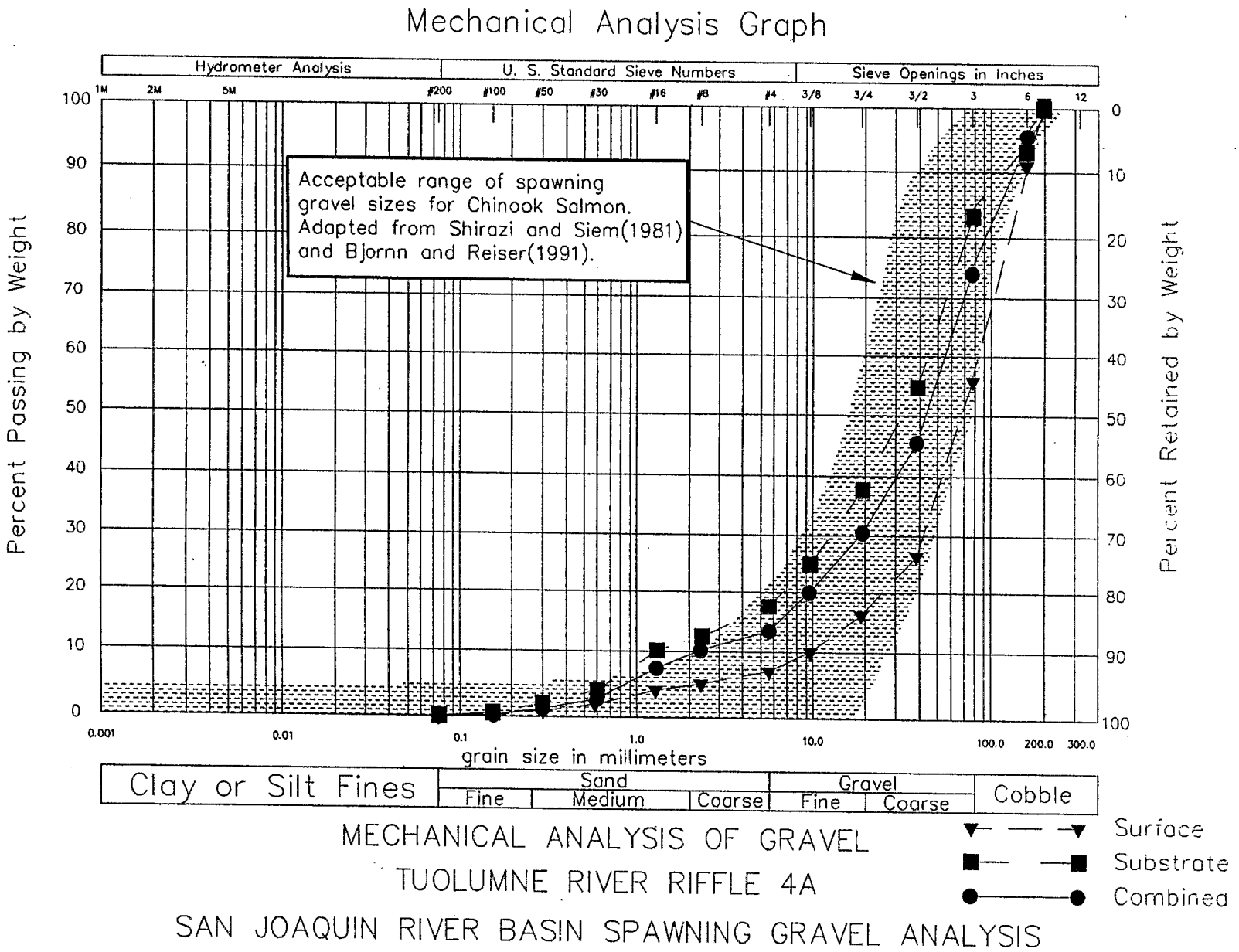

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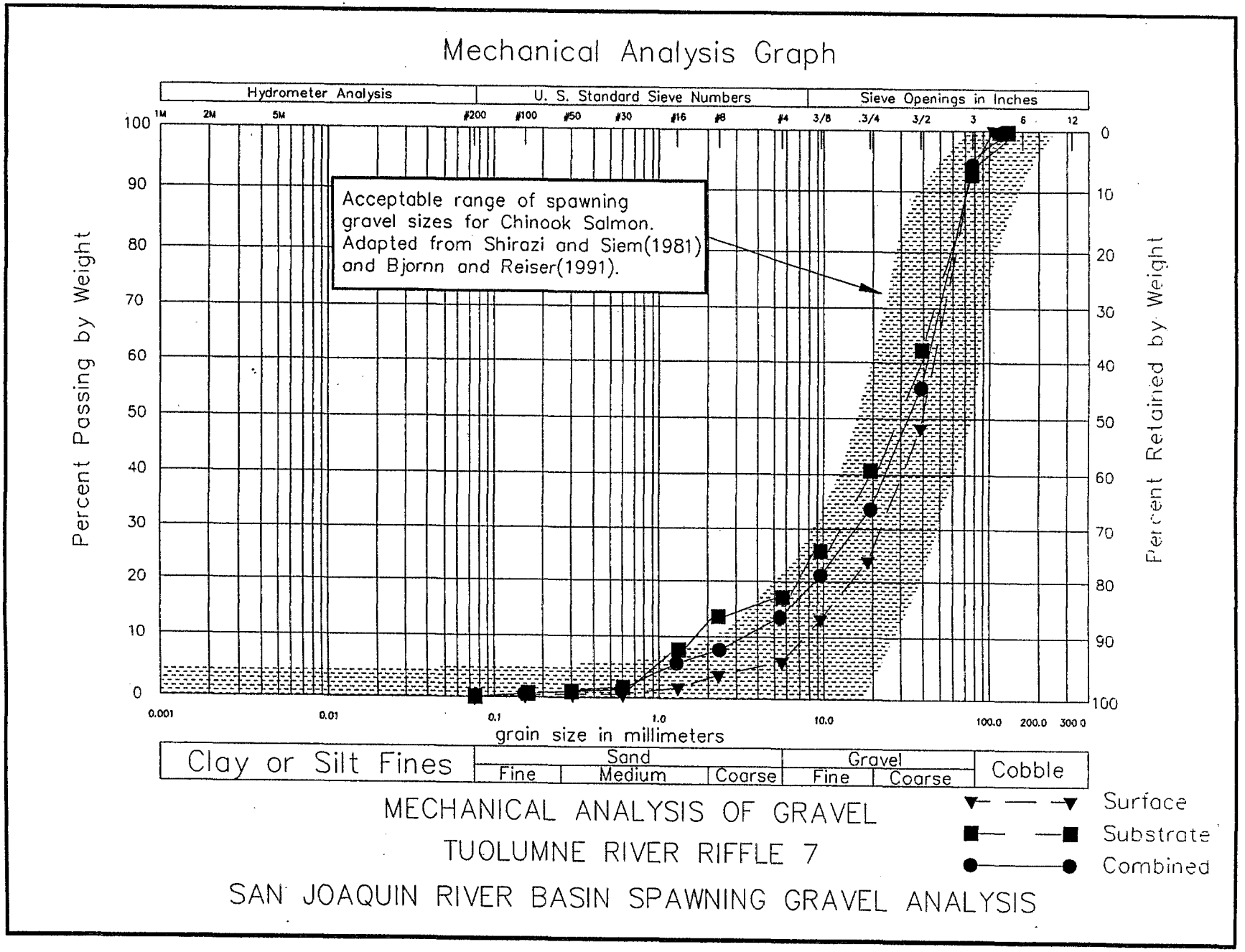

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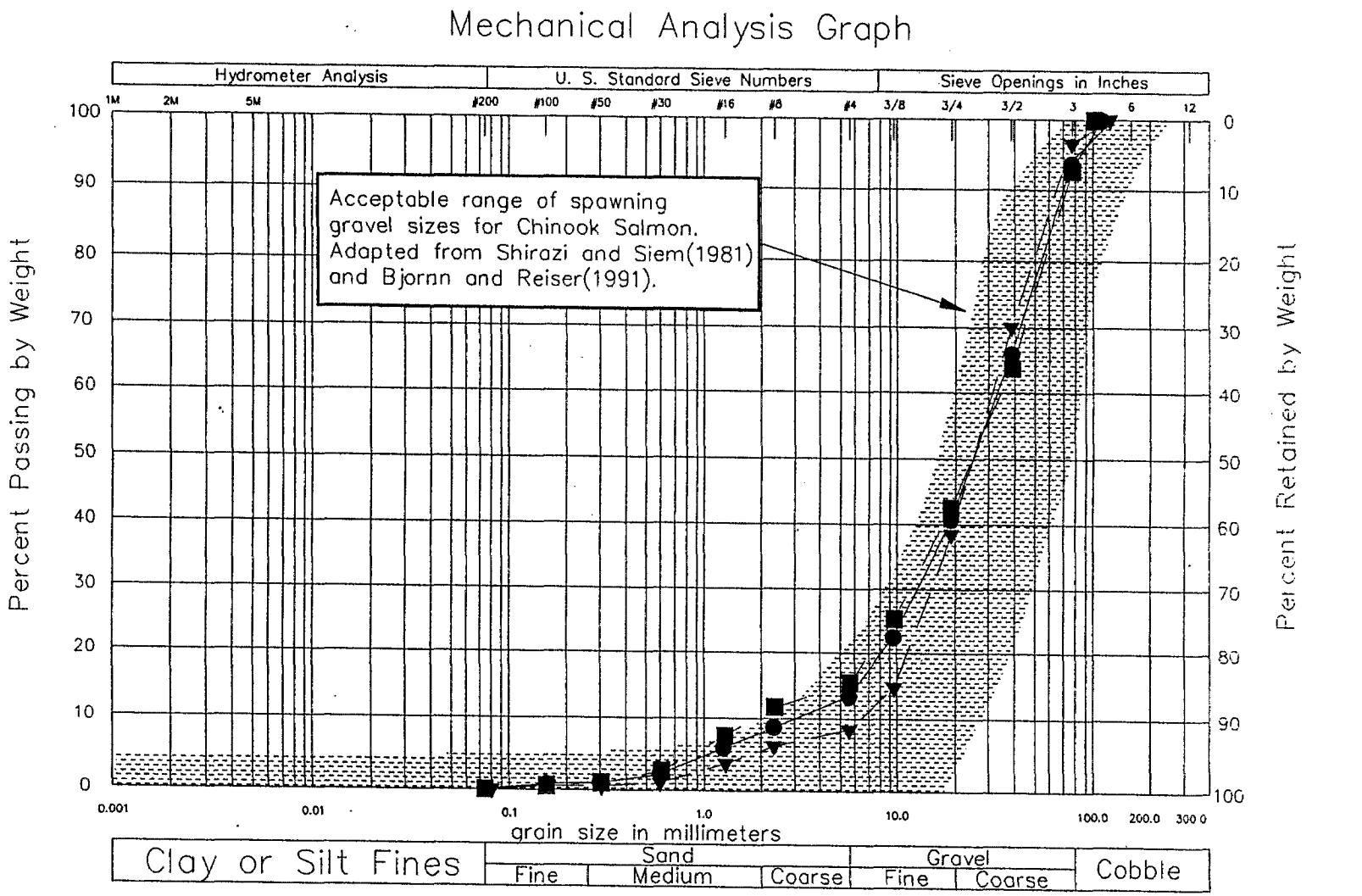

MECHANICAL ANALYSIS OF GRAVEL

TUOLUMNE RIVER RIFFLE 9

SAN JOAQUIN RIVER BASIN SPAWNING GRAVEL ANALYSIS

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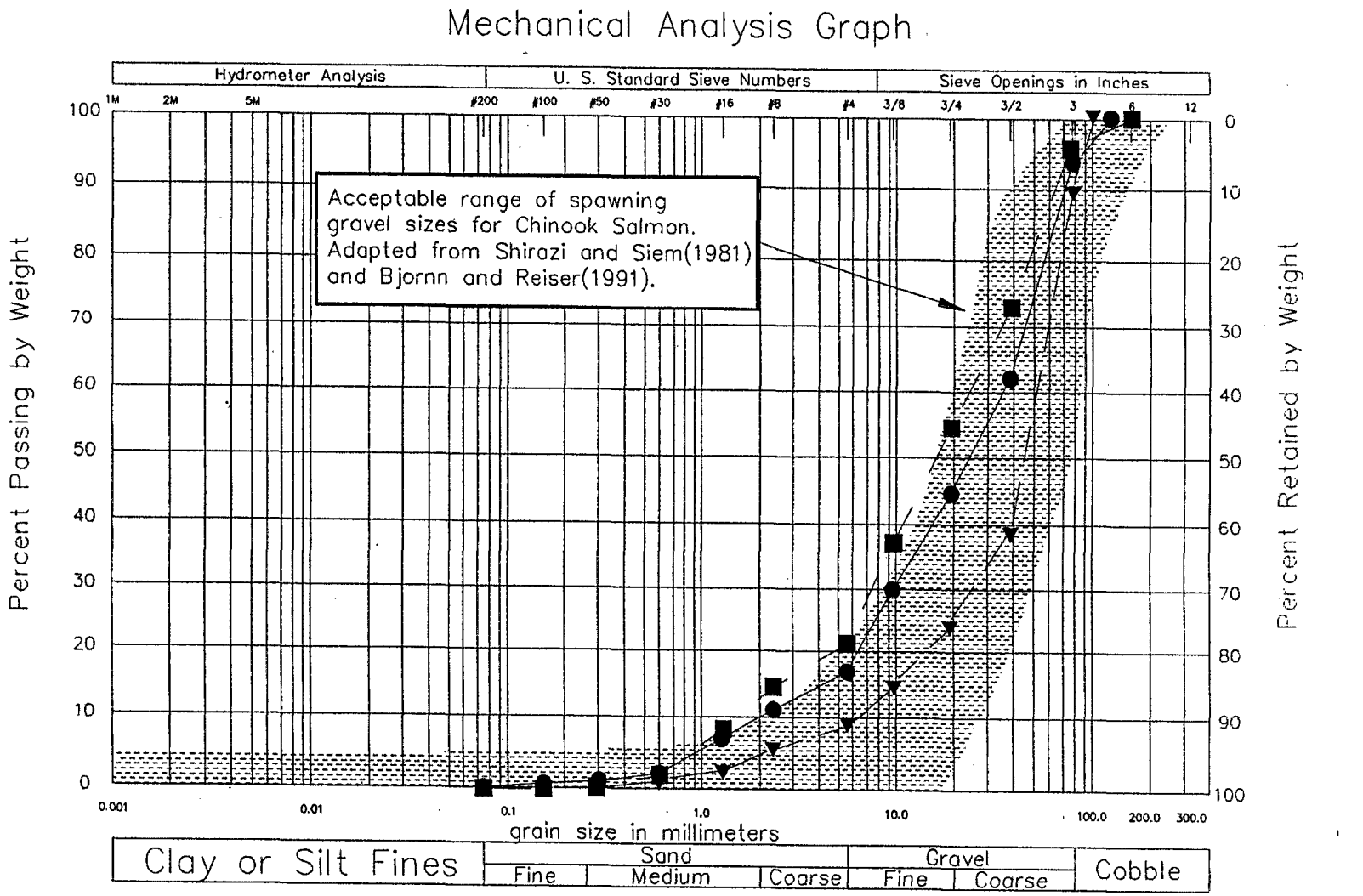

MECHANICAL ANALYSIS OF GRAVEL

TUOLUMNE RIVER RIFFLE 12

SAN JOAQUIN RIVER BASIN SPAWNING GRAVEL ANALYSIS

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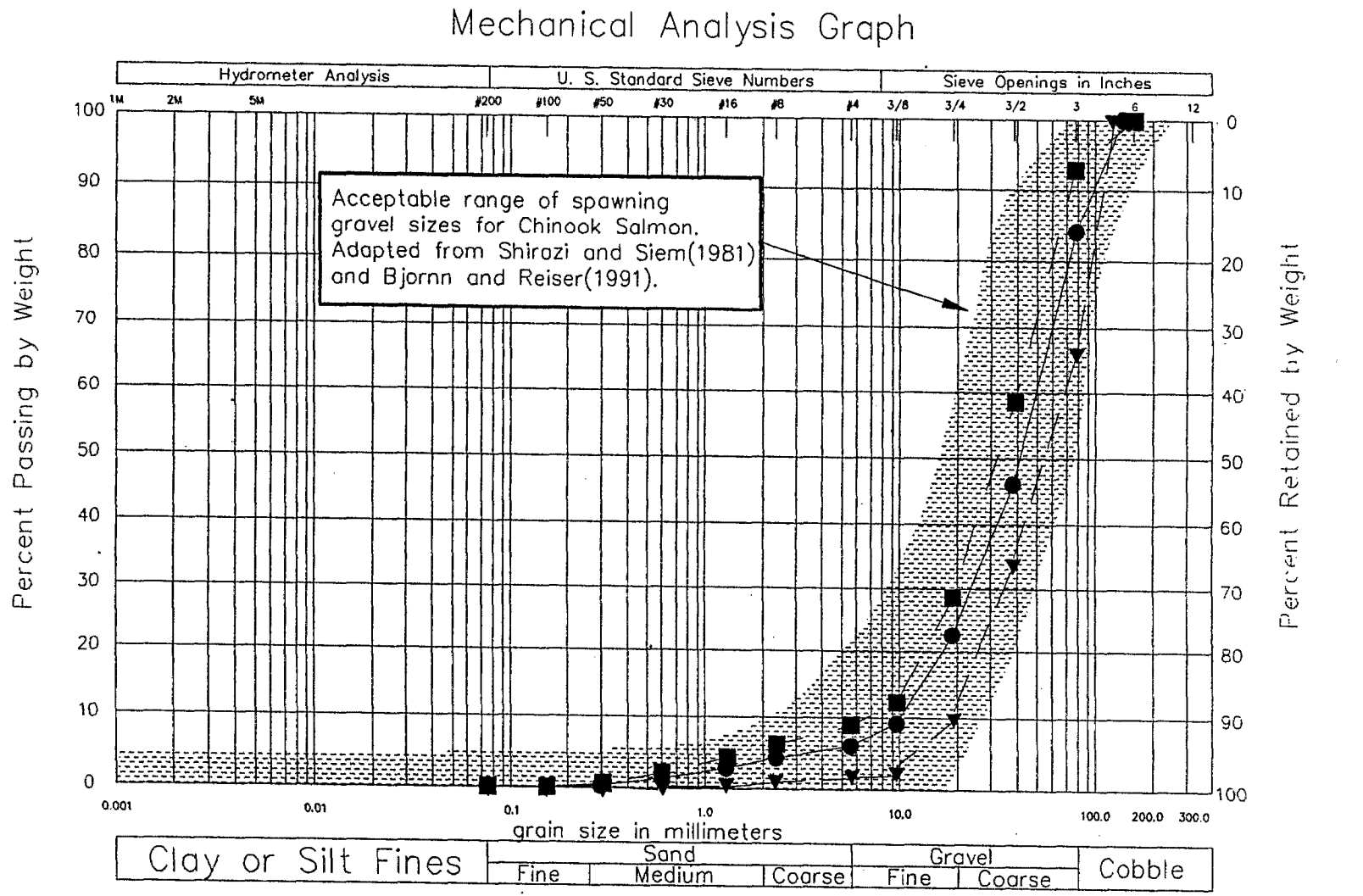

MECHANICAL ANALYSIS OF GRAVEL

TUOLUMNE RIVER RIFFLE 15

SAN JOAQUIN RIVER BASIN SPAWNING GRAVEL ANALYSIS

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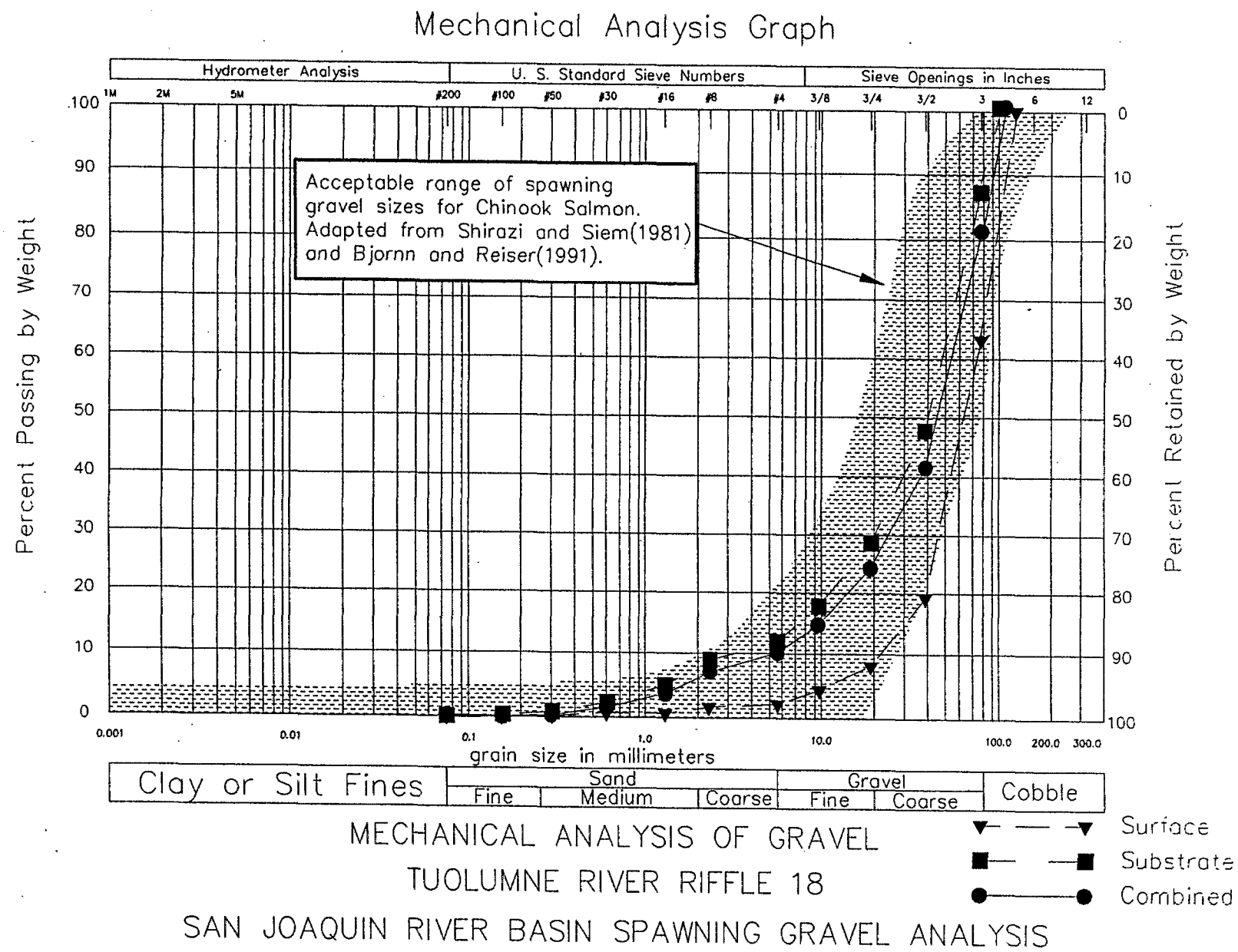

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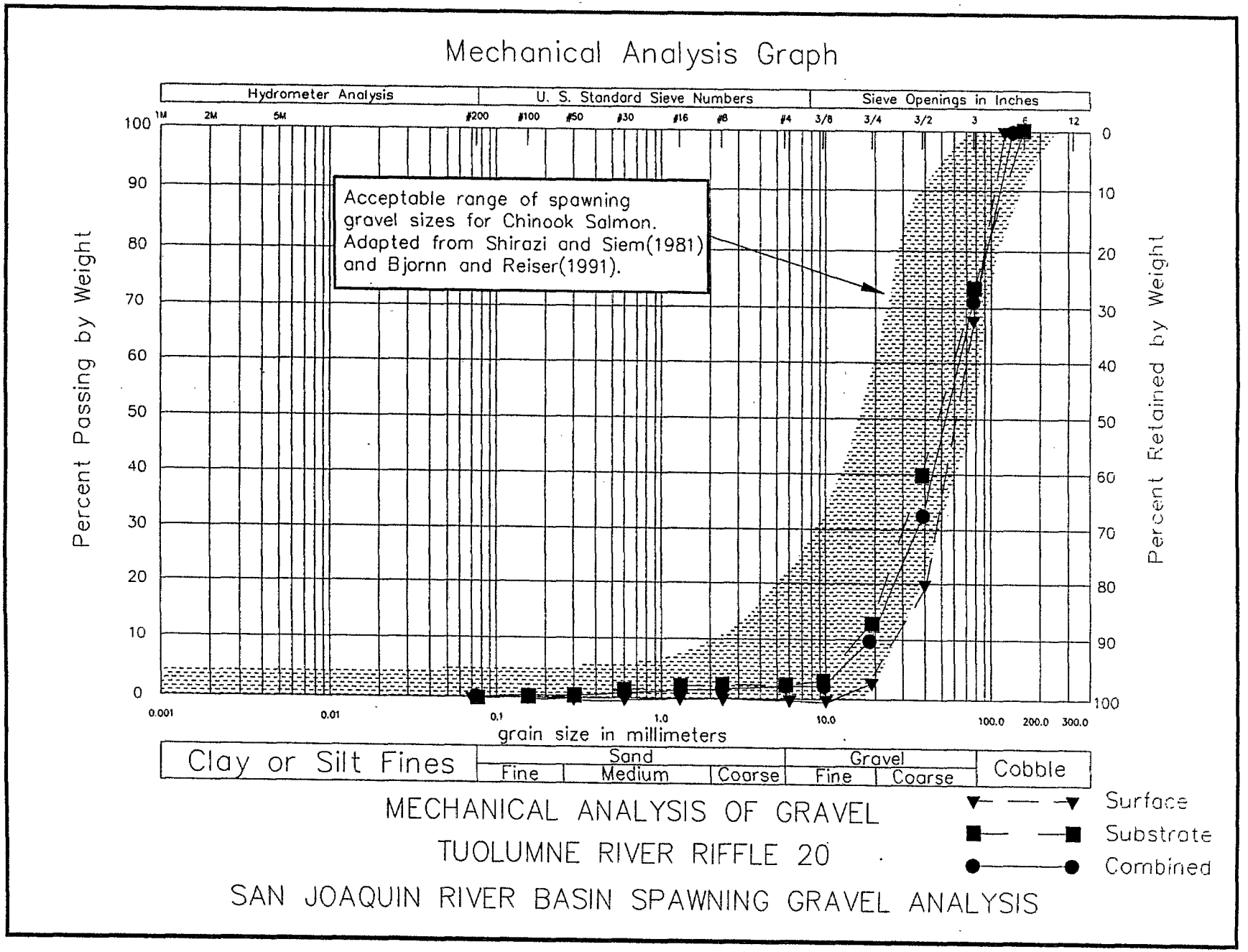

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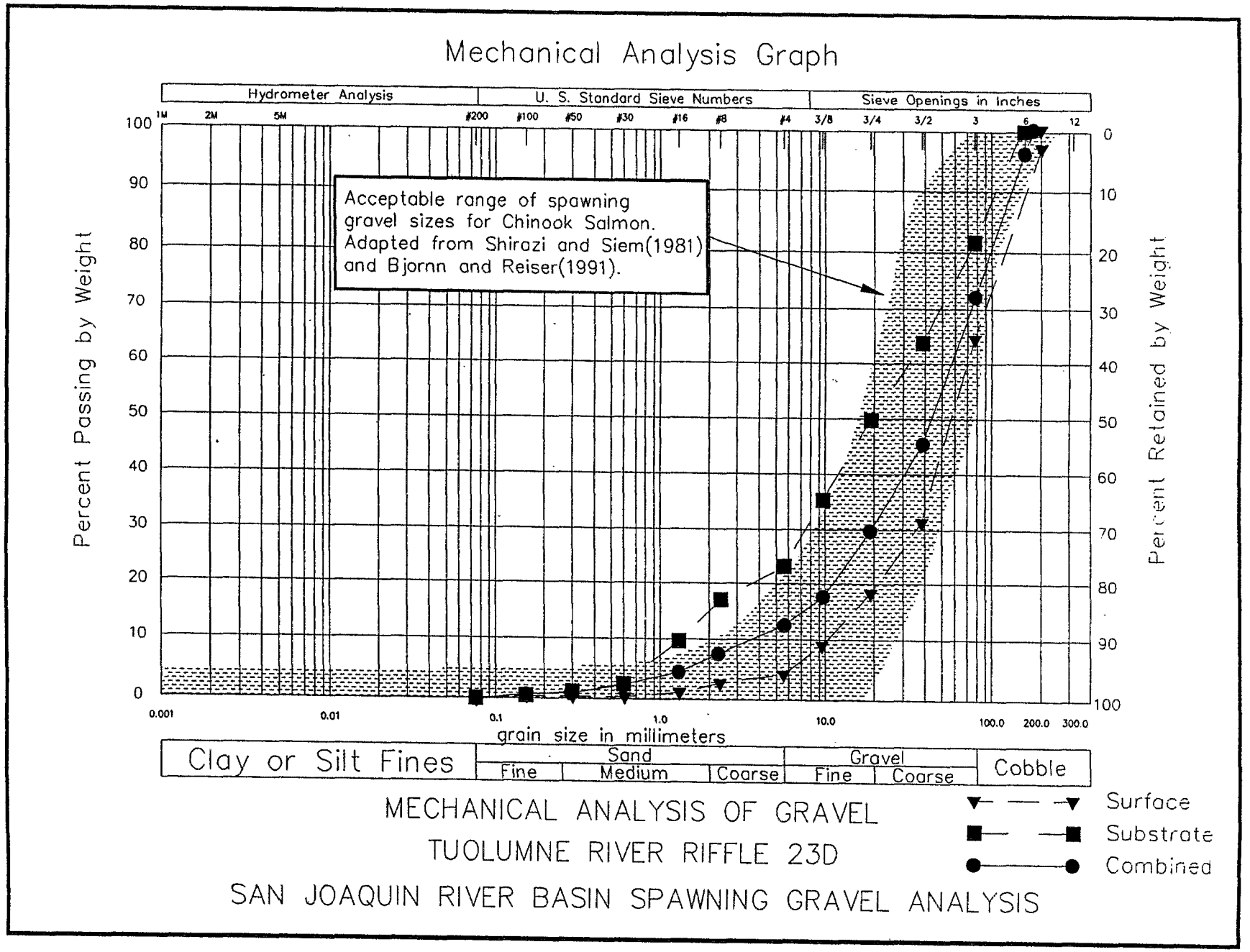

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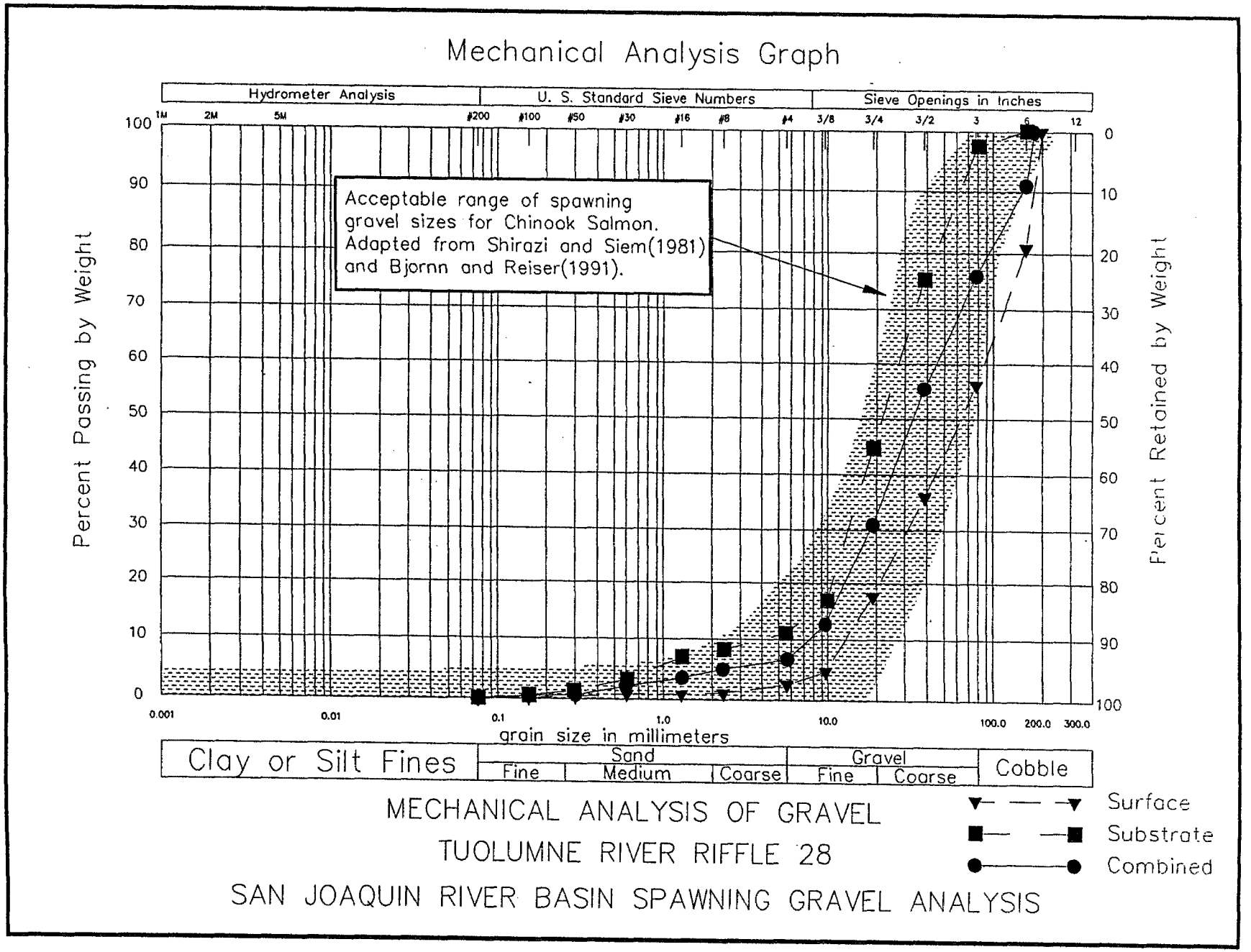

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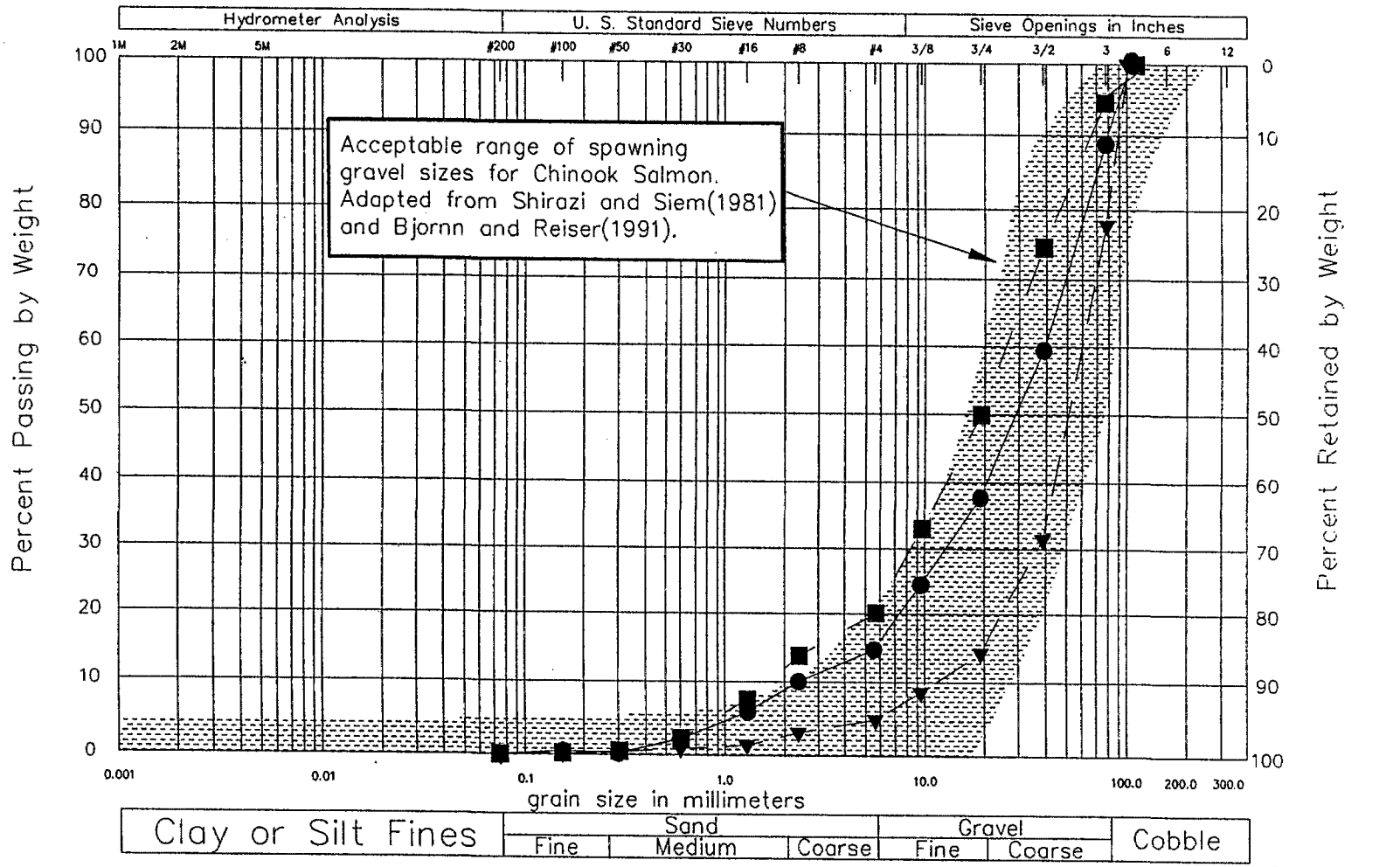
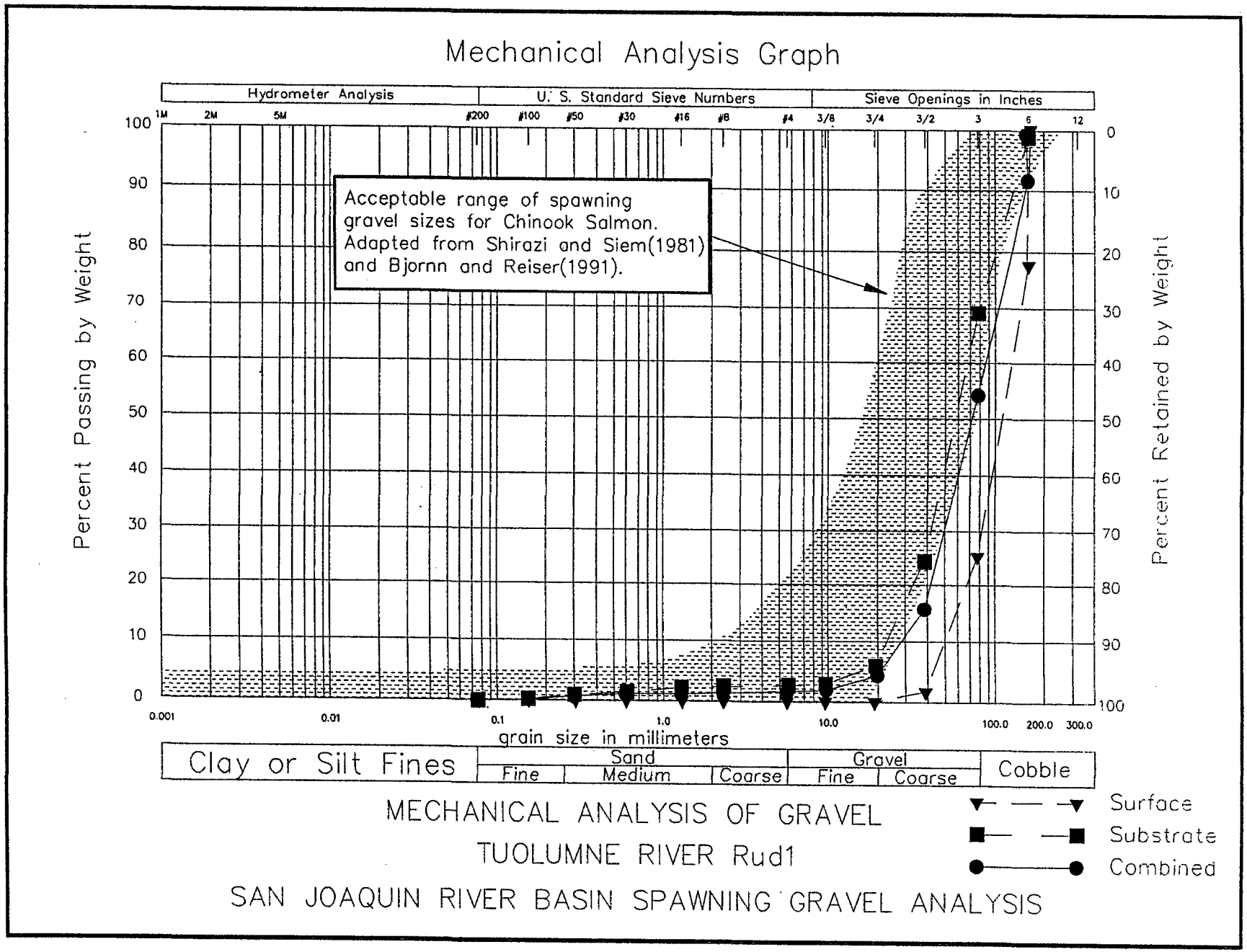
Mechanical Analysis Graph



MECHANICAL ANALYSIS OF GRAVEL

TUOLUMNE RIVER RIFFLE 30

SAN JOAQUIN RIVER BASIN SPAWNING GRAVEL ANALYSIS



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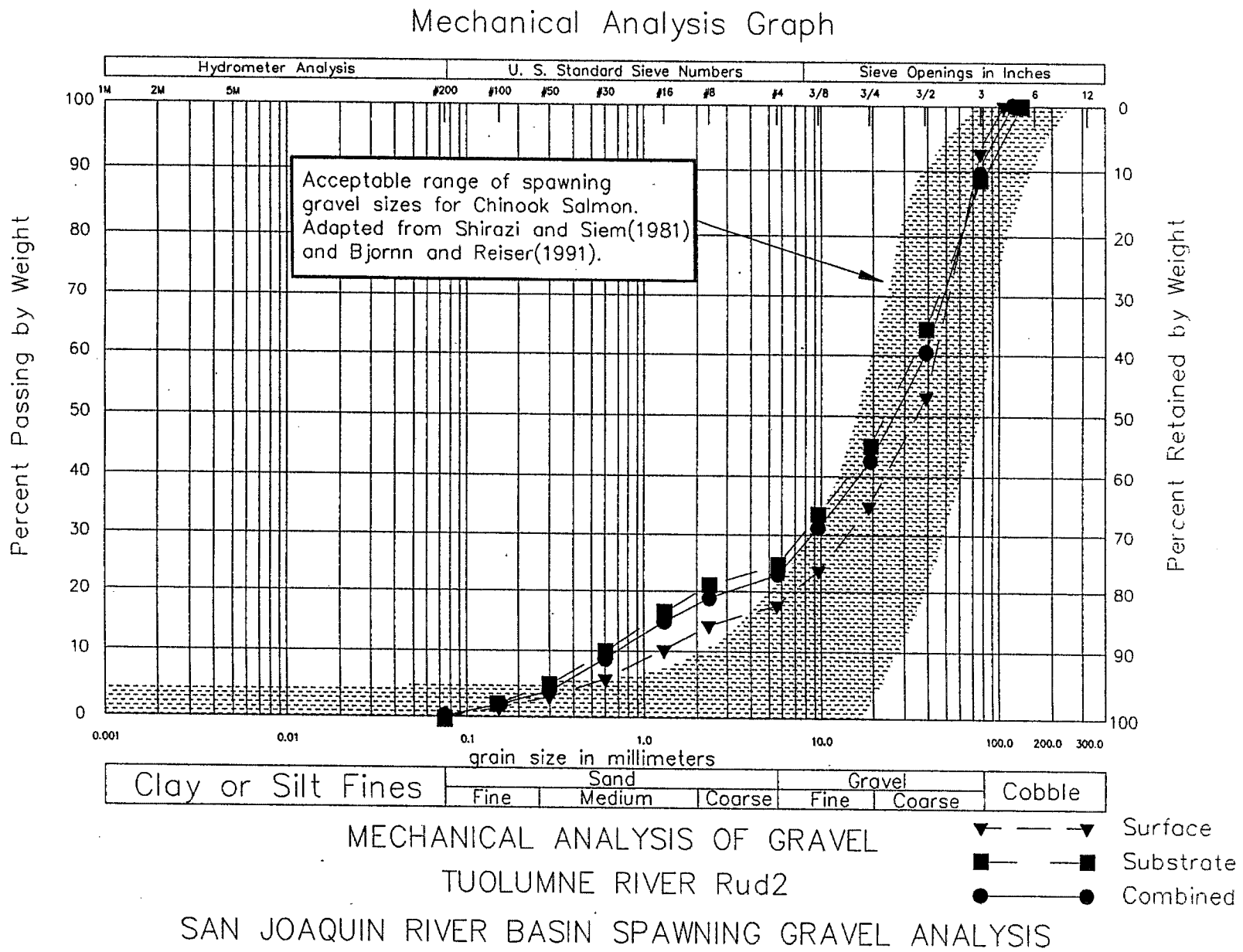

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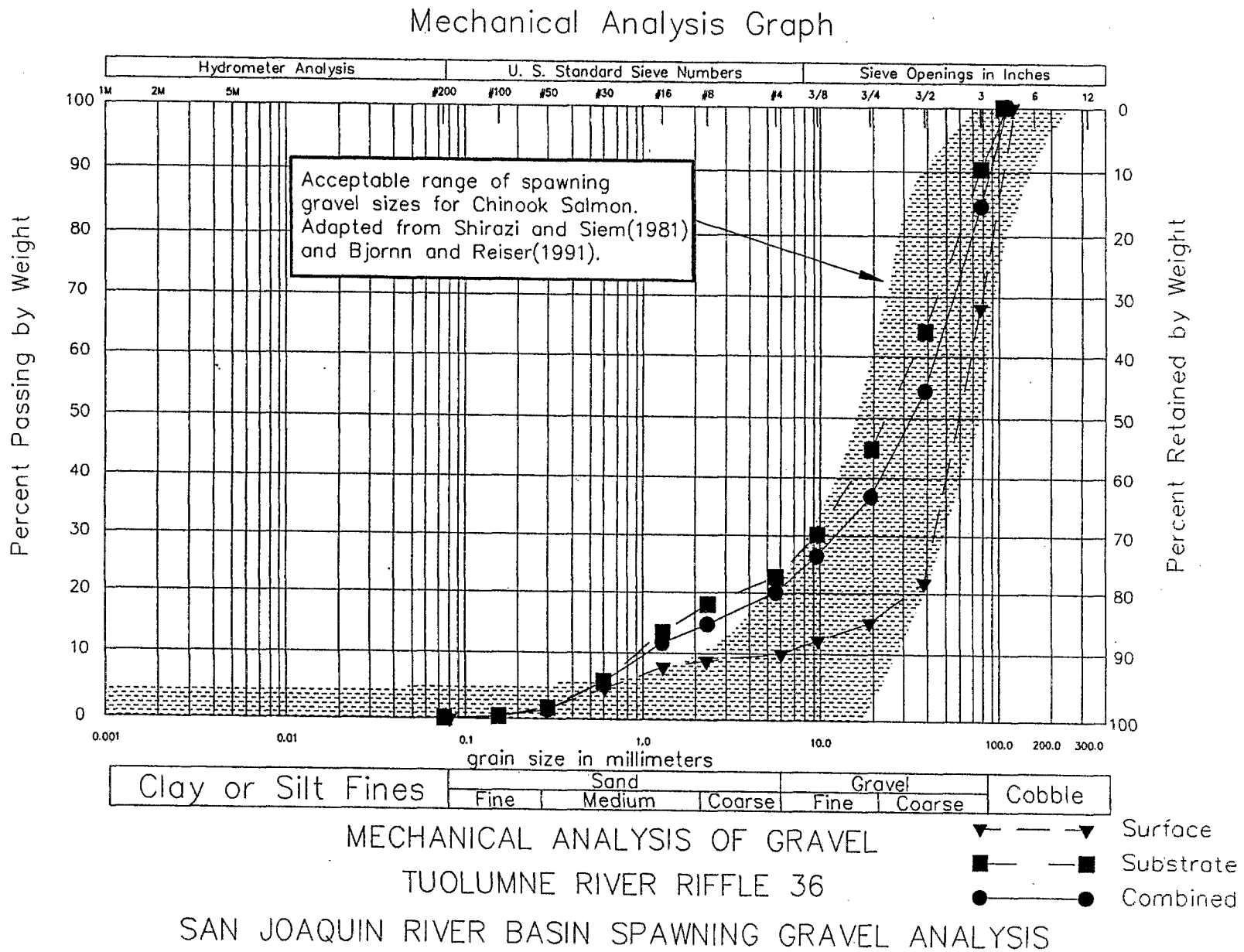

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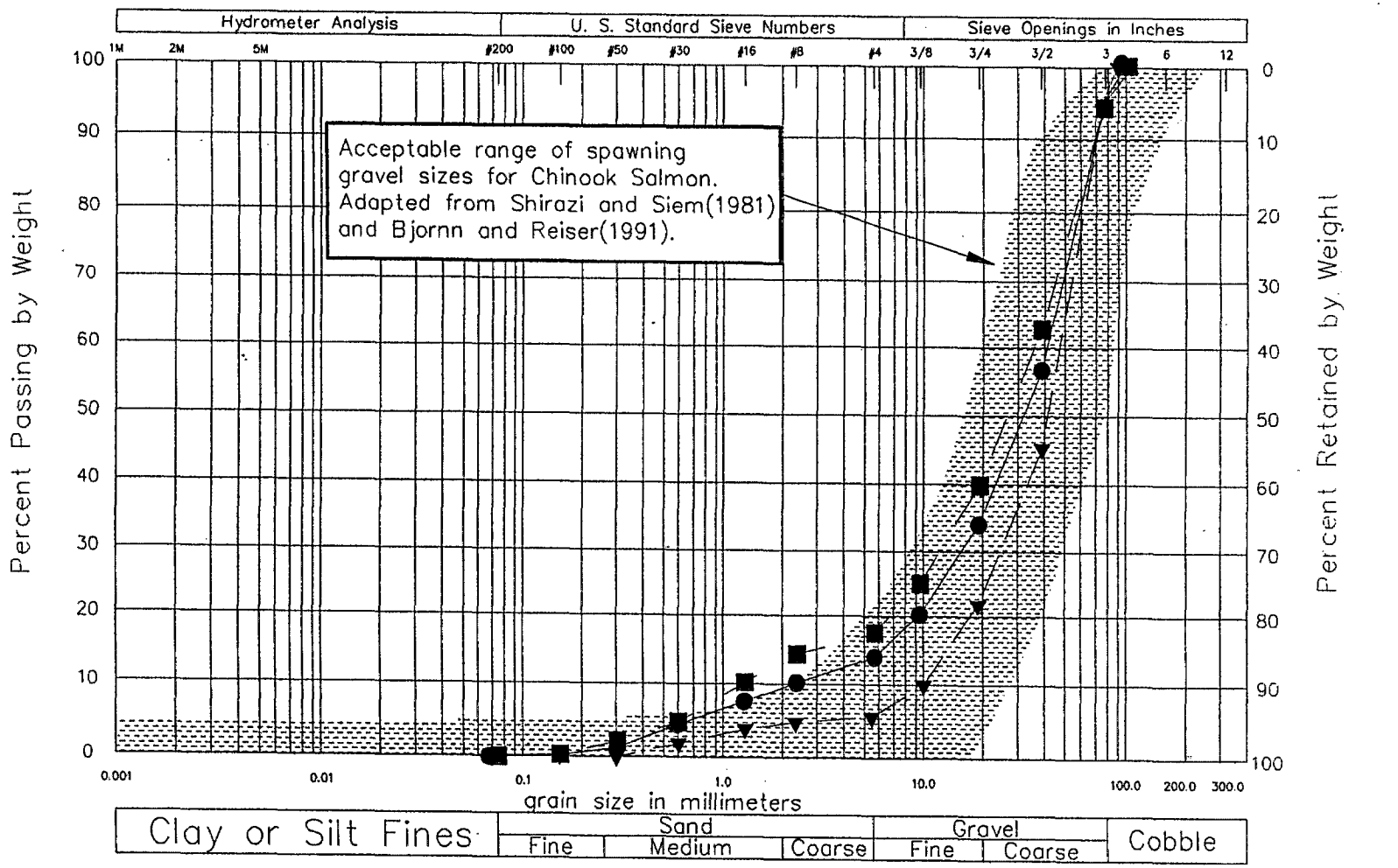
Mechanical Analysis Graph



MECHANICAL ANALYSIS OF GRAVEL

TUOLUMNE RIVER RIFFLE 40

SAN JOAQUIN RIVER BASIN SPAWNING GRAVEL ANALYSIS

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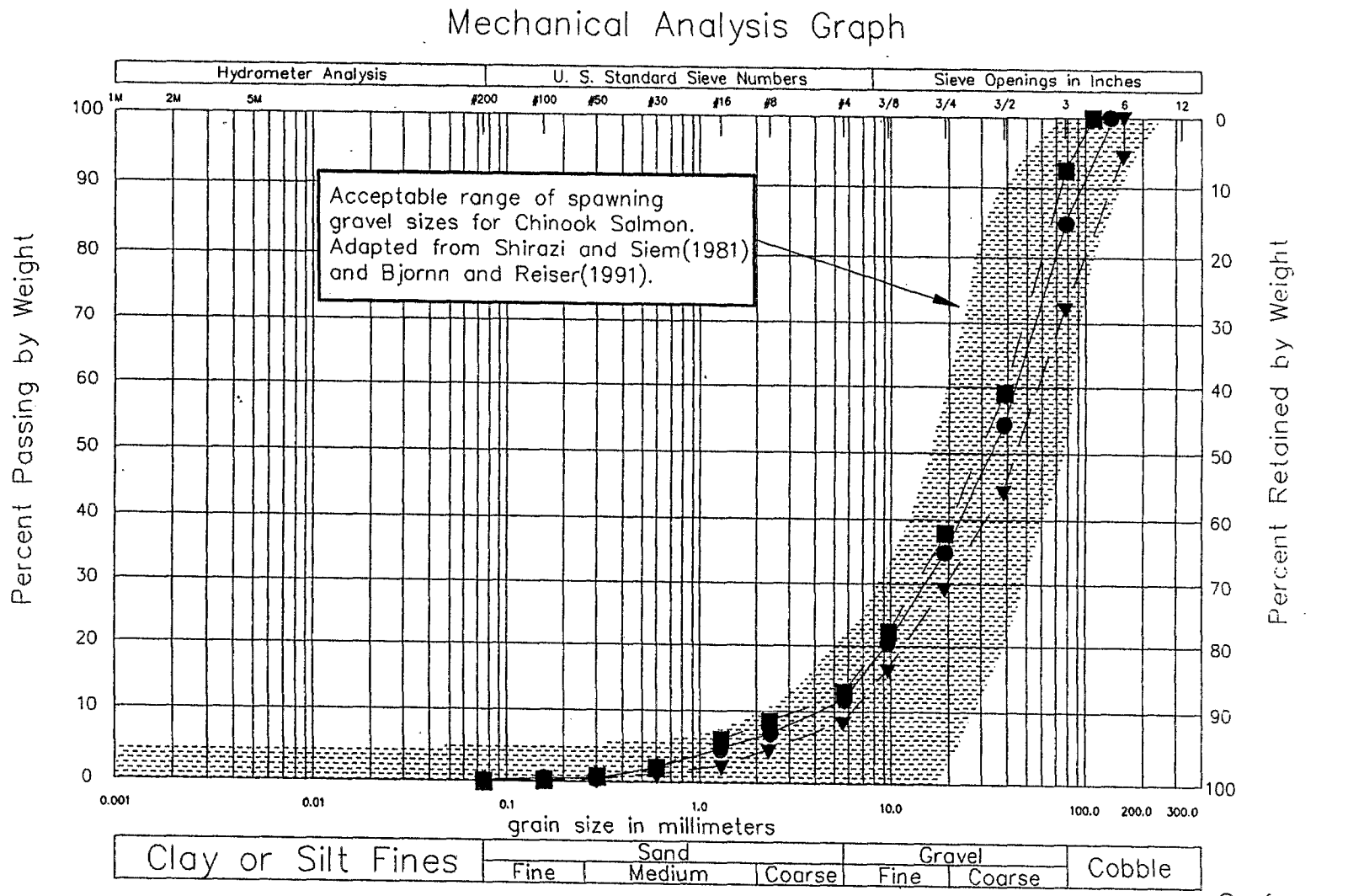


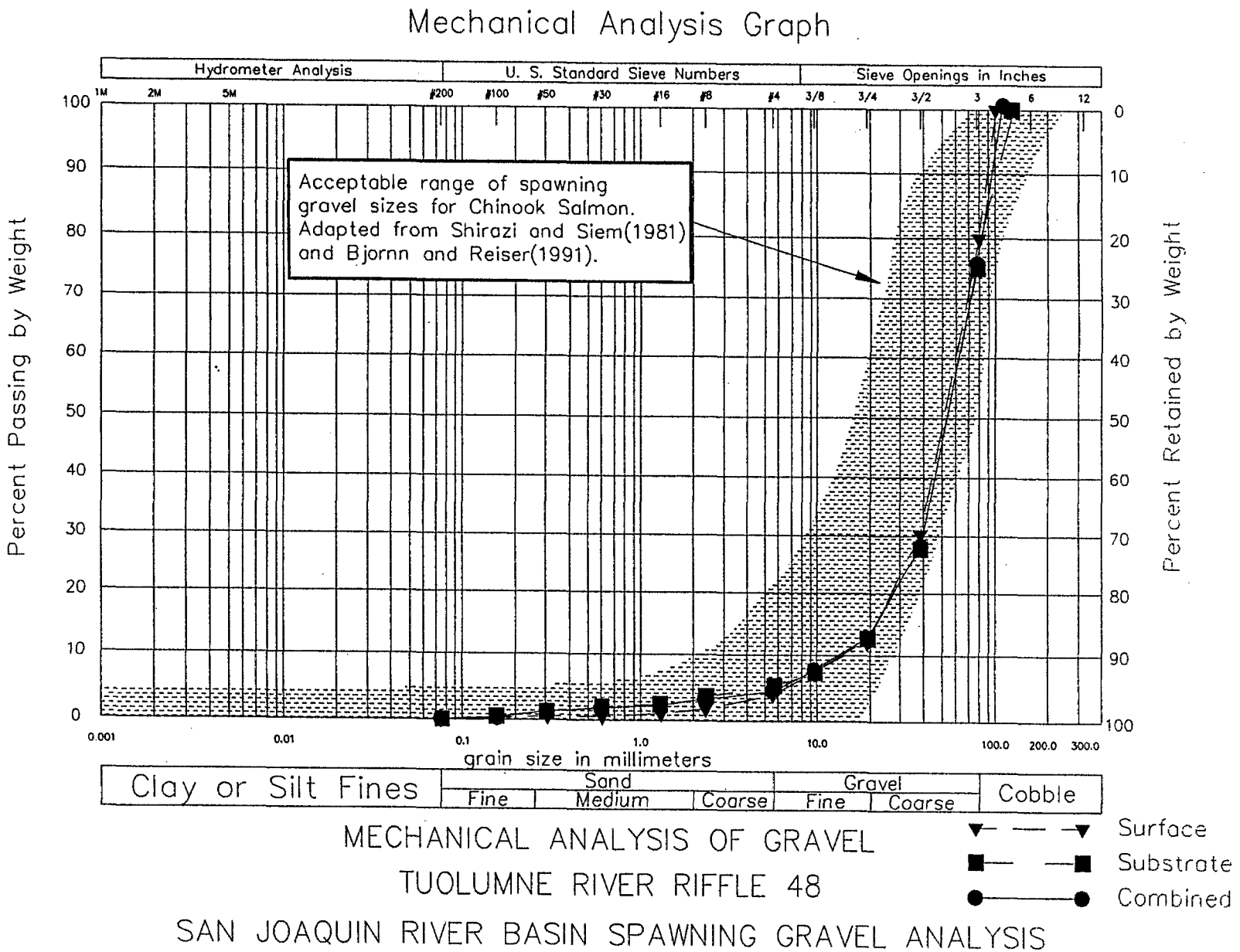
MECHANICAL ANALYSIS OF GRAVEL

TUOLUMNE RIVER RIFFLE 43

SAN JOAQUIN RIVER BASIN SPAWNING GRAVEL ANALYSIS

C-104791

C-104791



MECHANICAL ANALYSIS OF GRAVEL

TUOLUMNE RIVER RIFFLE 48

SAN JOAQUIN RIVER BASIN SPAWNING GRAVEL ANALYSIS

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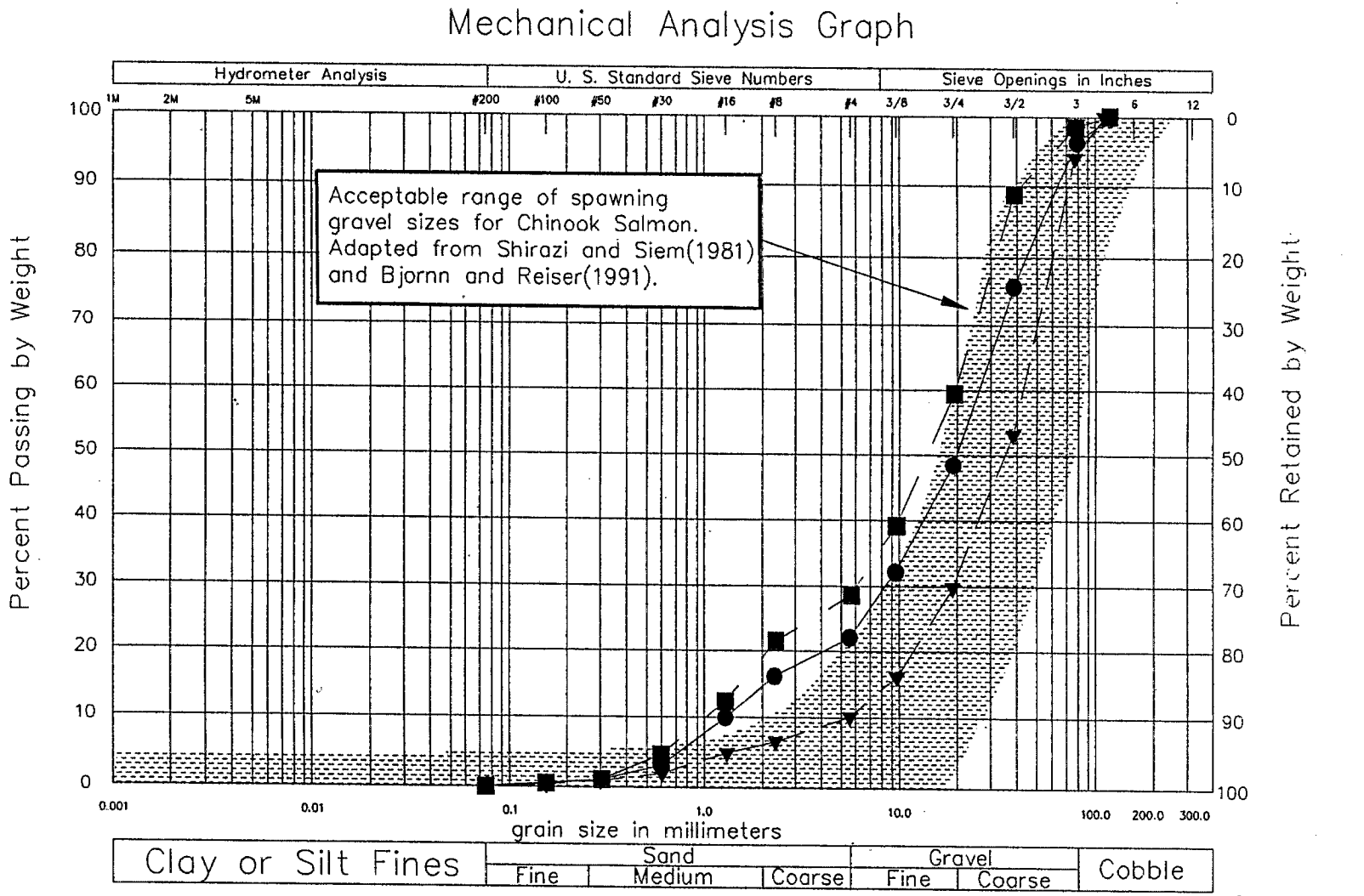


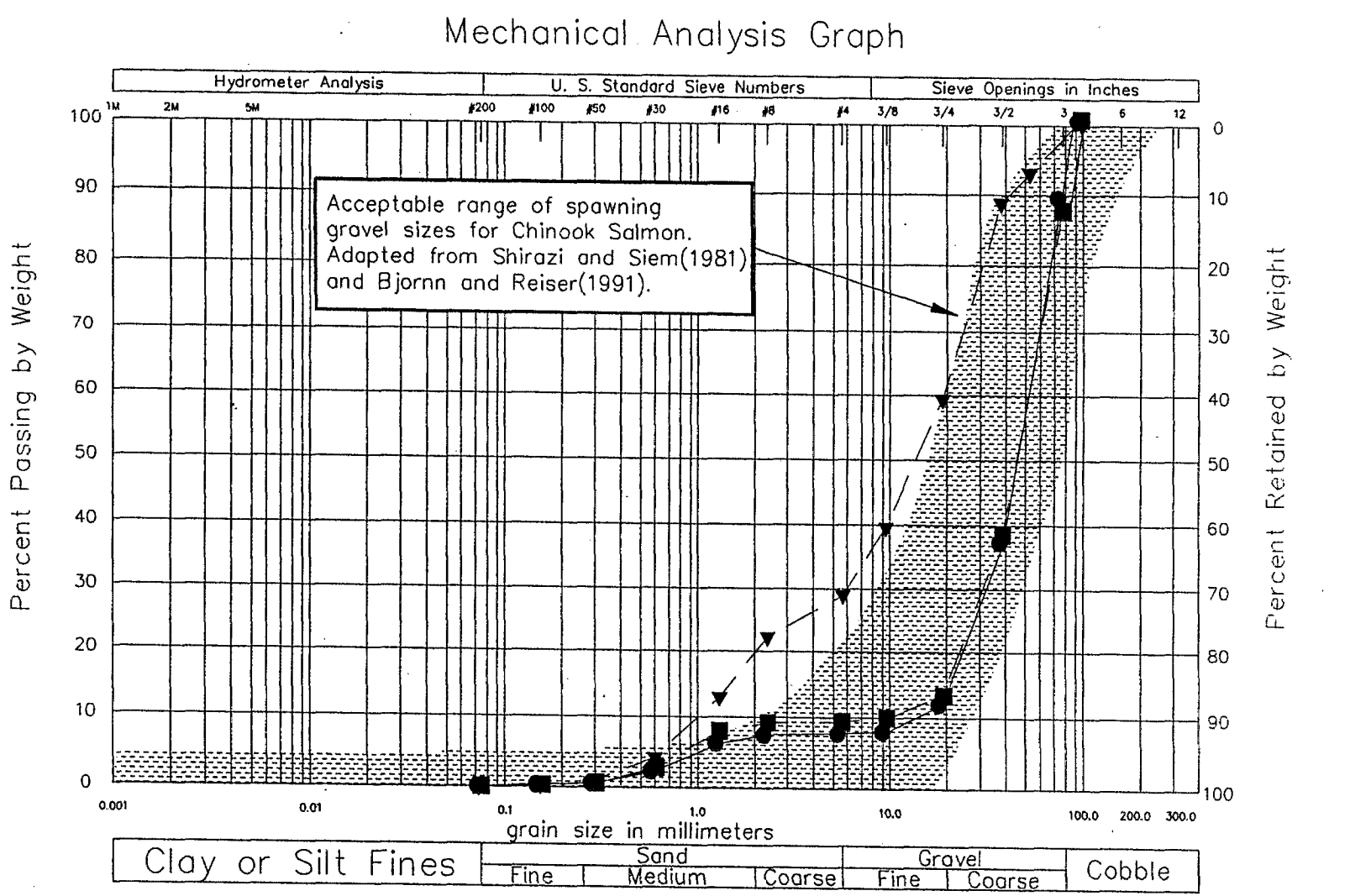
MECHANICAL ANALYSIS OF GRAVEL

TUOLUMNE RIVER RIFFLE 50

SAN JOAQUIN RIVER BASIN SPAWNING GRAVEL ANALYSIS

C-104793

C-104793



MECHANICAL ANALYSIS OF GRAVEL

TUOLUMNE RIVER RIFFLE 54

SAN JOAQUIN RIVER BASIN SPAWNING GRAVEL ANALYSIS

C-104794

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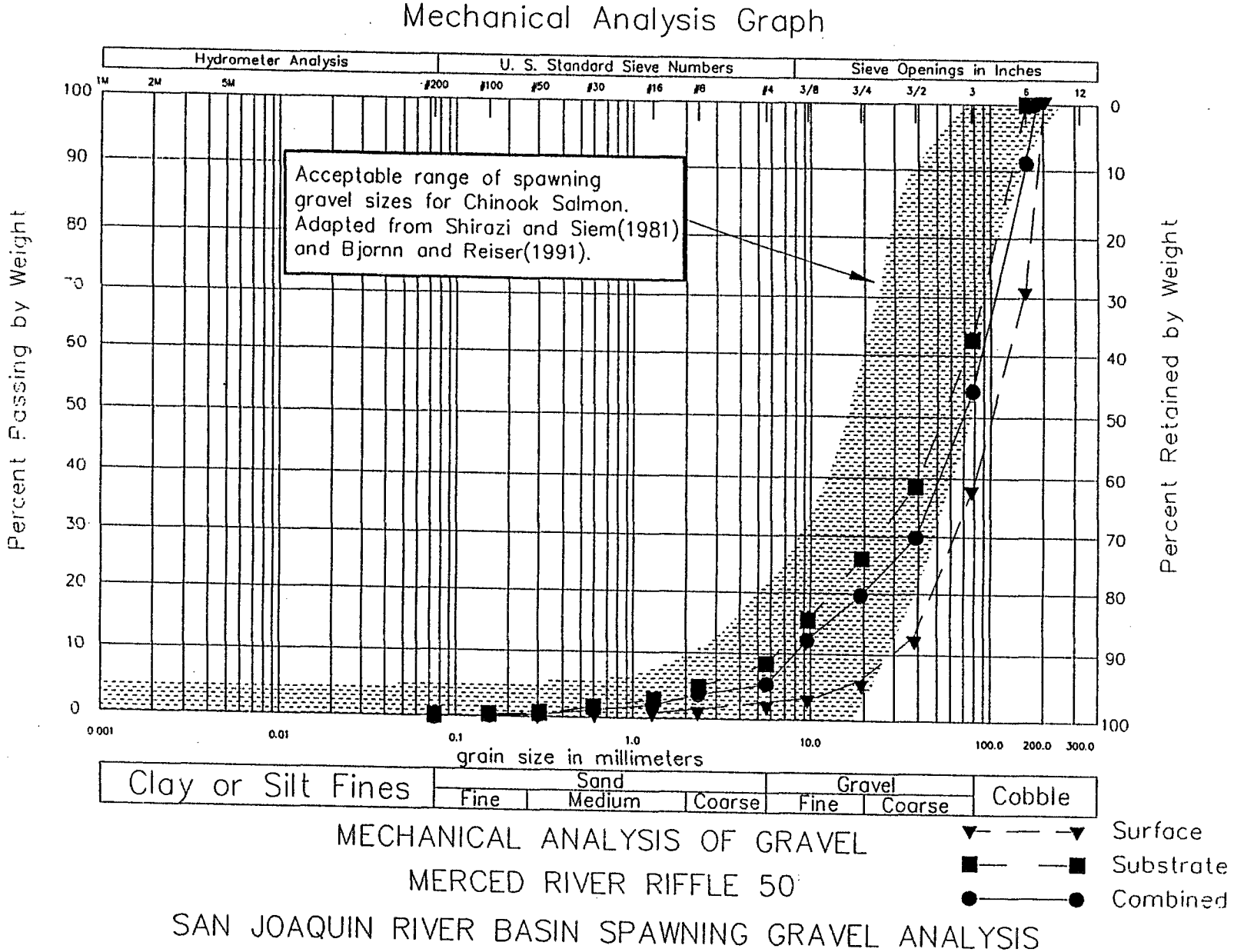

MECHANICAL ANALYSIS OF GRAVEL

MERCED RIVER RIFFLE 50

SAN JOAQUIN RIVER BASIN SPAWNING GRAVEL ANALYSIS

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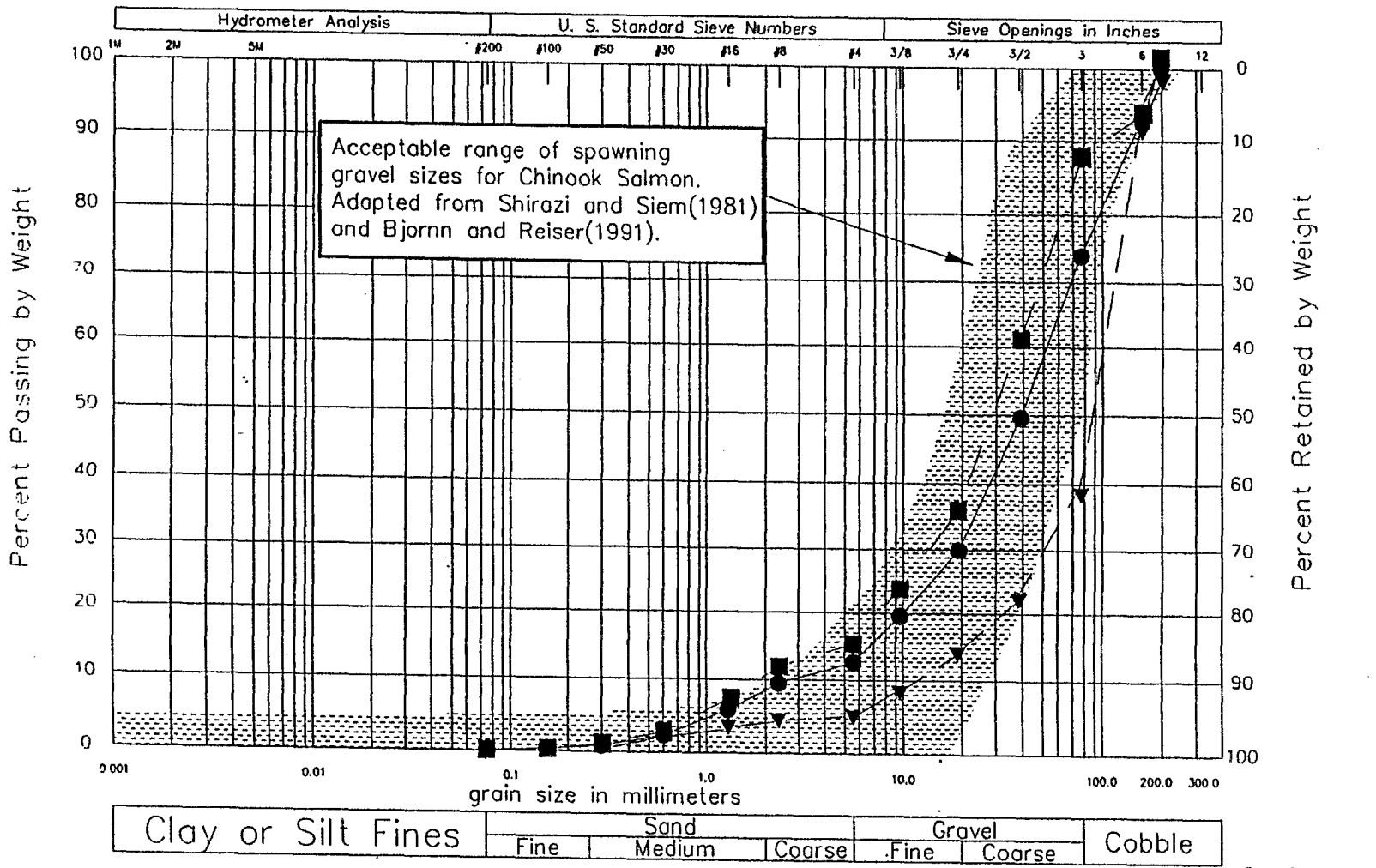
C-104795

C-104796

Mechanical Analysis Graph



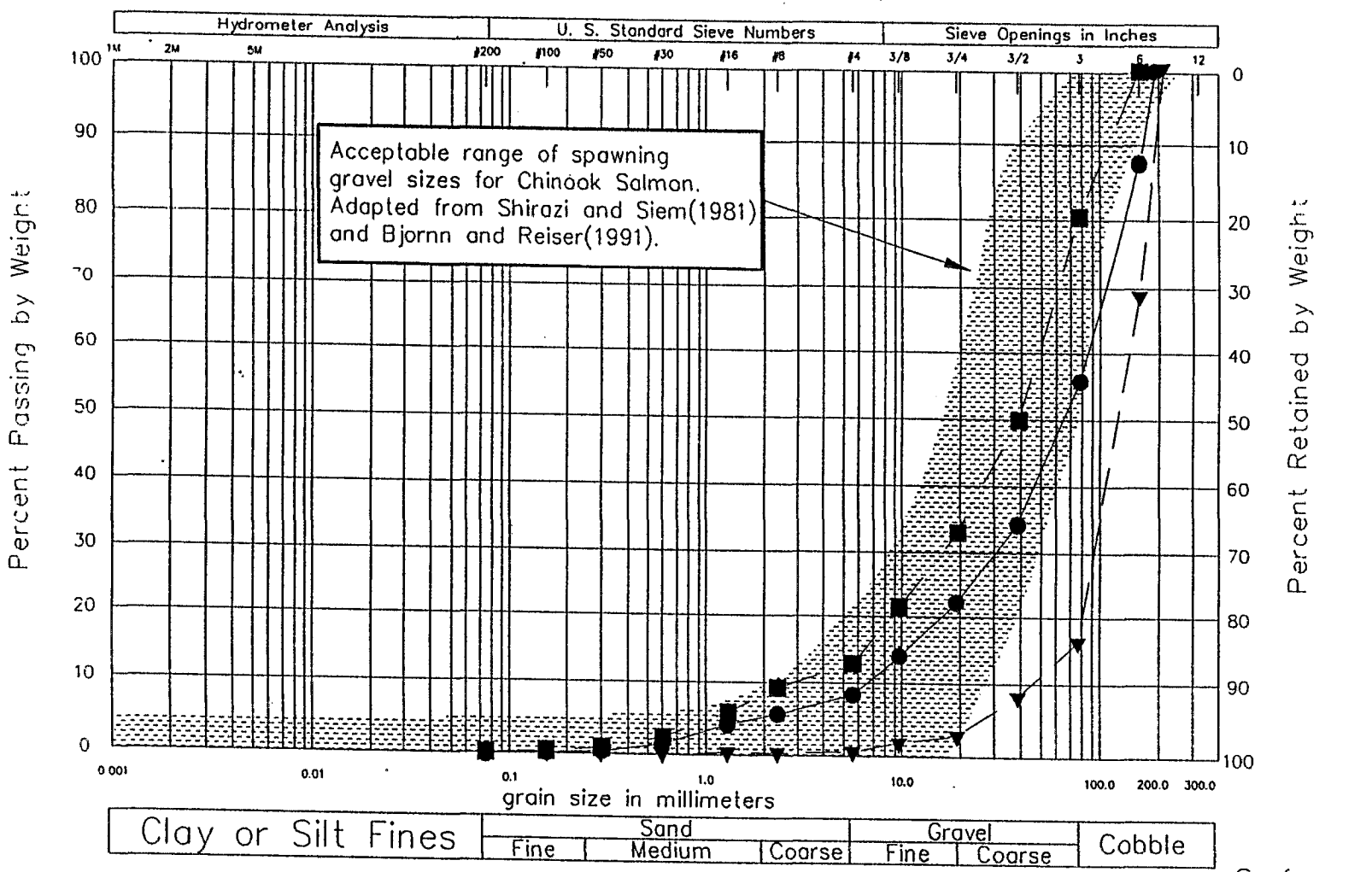
MECHANICAL ANALYSIS OF GRAVEL

MERCED RIVER RIFFLE 51

SAN JOAQUIN RIVER BASIN SPAWNING GRAVEL ANALYSIS

C-104796

Mechanical Analysis Graph



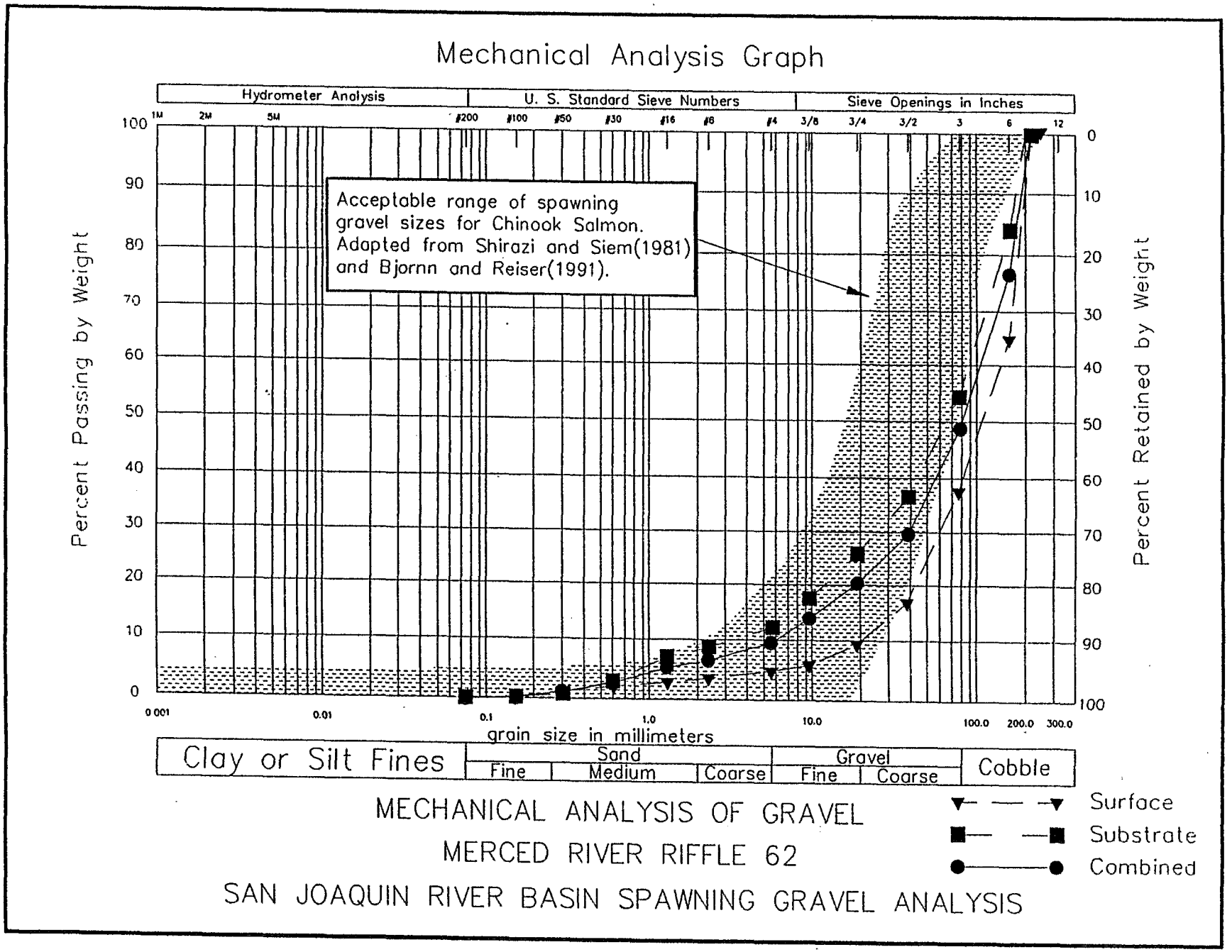
MECHANICAL ANALYSIS OF GRAVEL

MERCED RIVER RIFFLE 52

SAN JOAQUIN RIVER BASIN SPAWNING GRAVEL ANALYSIS

C-104797

C-104797



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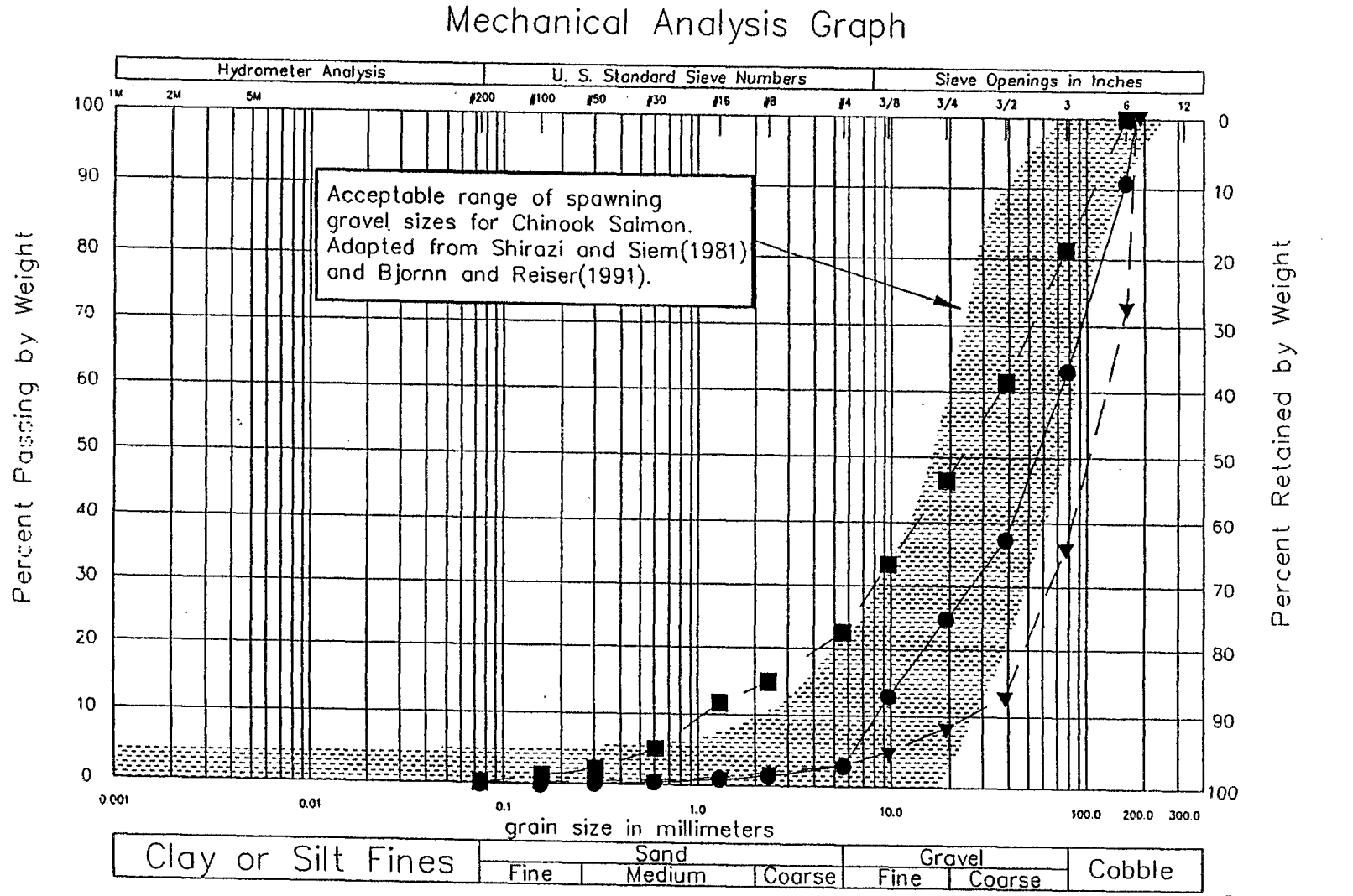


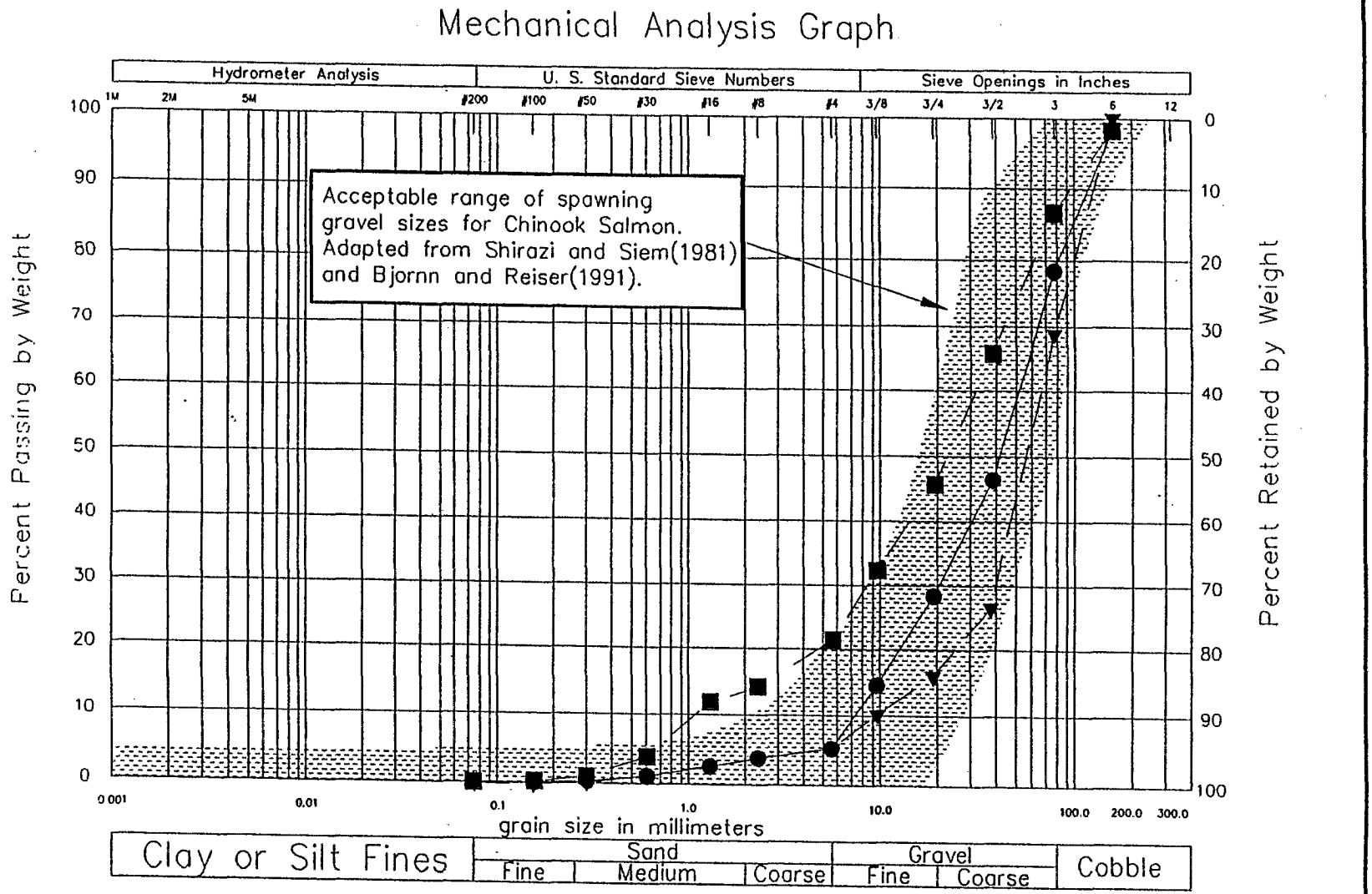
MECHANICAL ANALYSIS OF GRAVEL

MERCED RIVER RIFFLE 64

SAN JOAQUIN RIVER BASIN SPAWNING GRAVEL ANALYSIS

C-104799

C-104799



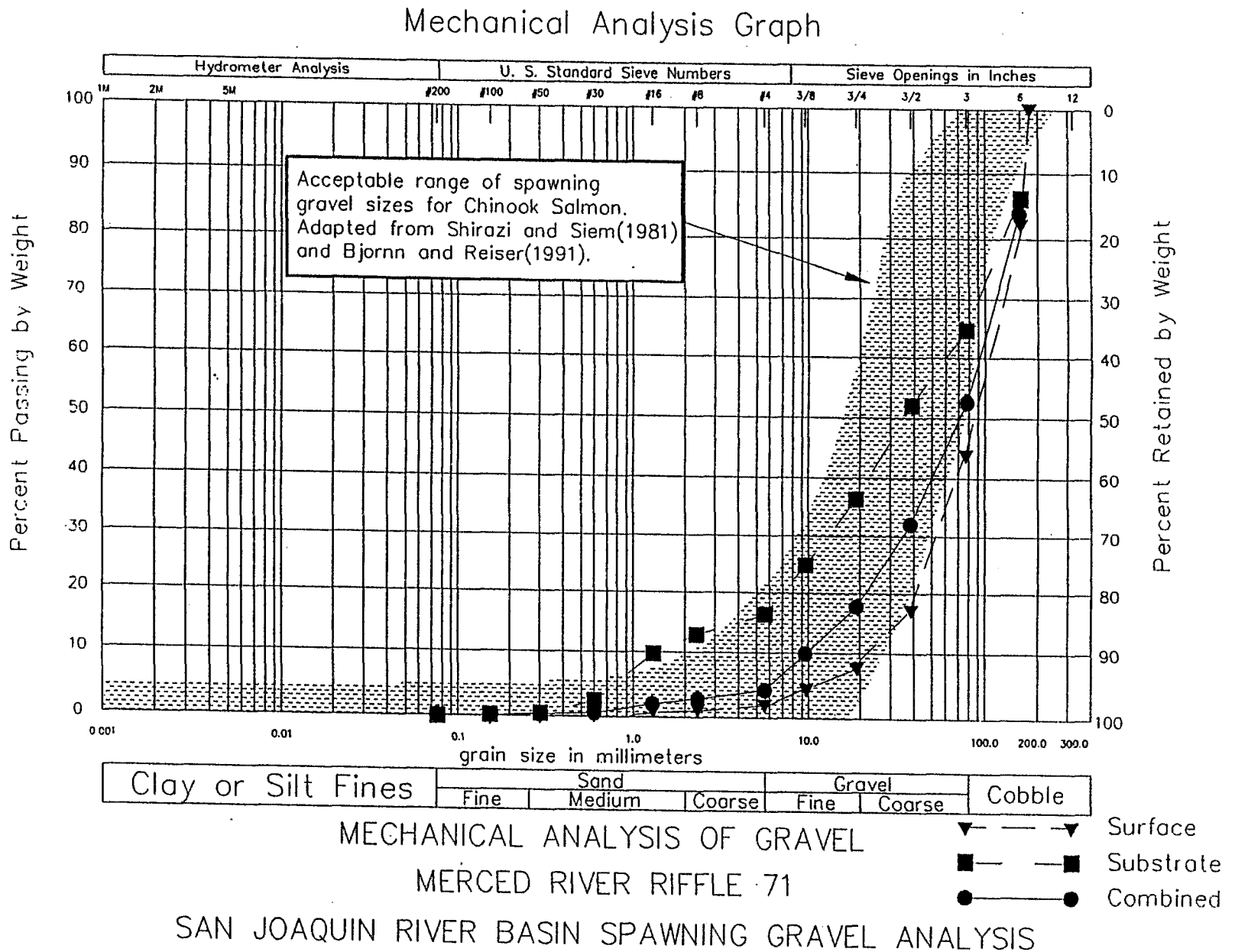
MECHANICAL ANALYSIS OF GRAVEL

MERCED RIVER RIFFLE 65

SAN JOAQUIN RIVER BASIN SPAWNING GRAVEL ANALYSIS

C-104800

C-104800



MECHANICAL ANALYSIS OF GRAVEL

MERCED RIVER RIFFLE 71

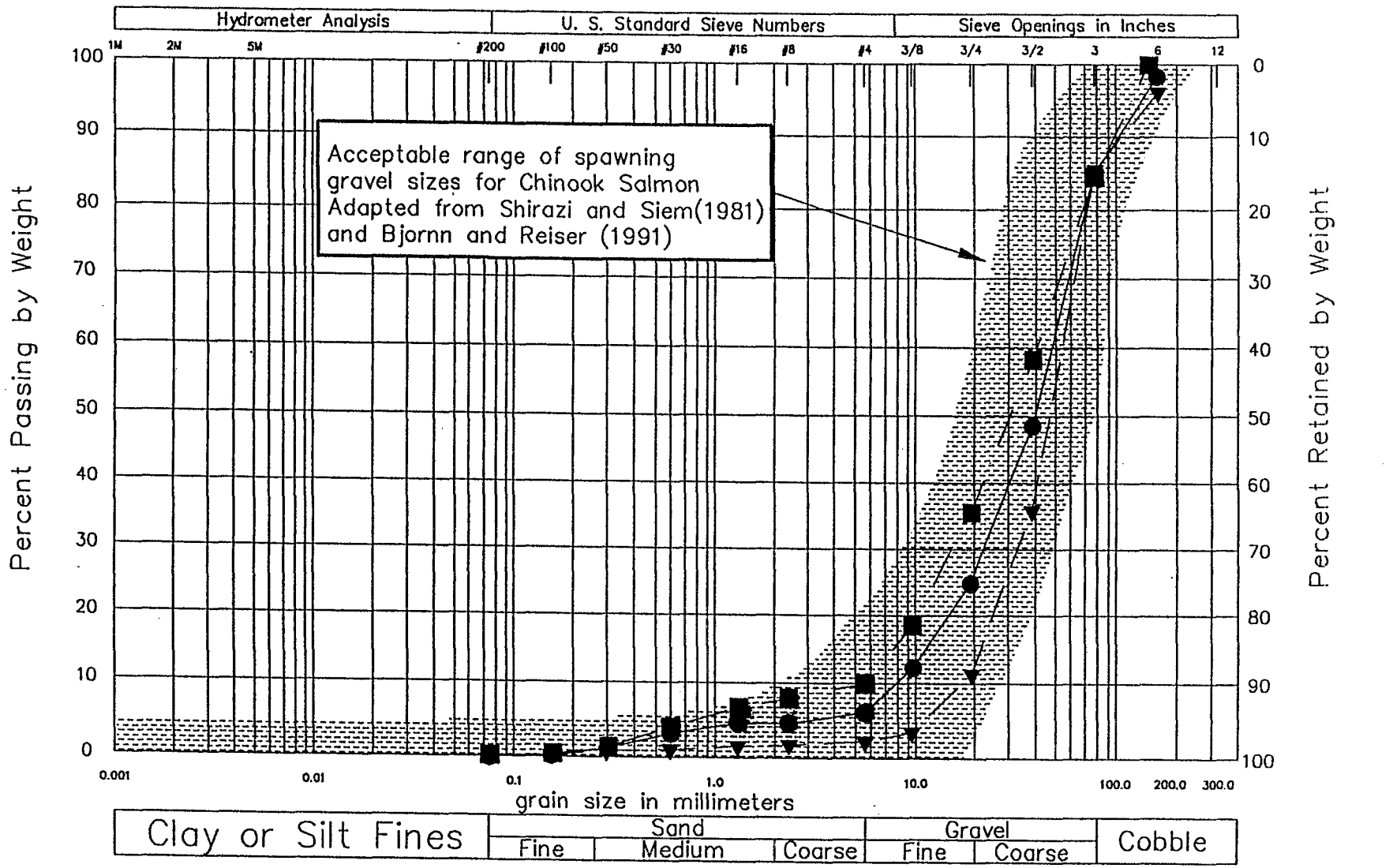
SAN JOAQUIN RIVER BASIN SPAWNING GRAVEL ANALYSIS

C-104801

C-104801

C-104802

Mechanical Analysis Graph



Surface
Substrate
Combined

MECHANICAL ANALYSIS OF GRAVEL

MERCED RIVER RIFFLE GALL1

SAN JOAQUIN RIVER BASIN SPAWNING GRAVEL ANALYSIS

C—104802