

027347 TYPE STREAM SEDIMENT REPLICATE SAMPLER JHF AIR TEMP(C) + 21.0 WEATHER CALM-CLEAR  
 PHASE E MAP NH1309 SITE G075 TIME TAKEN 11/04/02/80 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.456 (29 27' 21") LONG 102.832 (102 49' 55") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 BED MATERIAL COBBLE SAMPLE: COLOR M-GY-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 01

## REMARKS:

1-38 STILLWELL CROSSING 7.5 MIN. TOPO., COLLECTED IN MAIN CHANNEL OF BRAIDED TRIBUTARY GOING UPSTREAM 80M STARTING 50M UPSTREAM OF ROAD;

1-51 MED-COARSE SAND AND SILT COMPOSED OF LIMESTONE AND VOLCANIC ROCK FRAG;  
 1-78 BOB WEST & TEXAS PARKS AND WILDLIFE & 3407 S CHADBORNE & SAN ANGELO, TX 76901;

027348 TYPE STREAM SEDIMENT REPLICATE SAMPLER JHF AIR TEMP(C) + 24.0 WEATHER CALM-CLEAR  
 PHASE E MAP NH1309 SITE G076 TIME TAKEN 12/04/02/80 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.470 (29 28' 12") LONG 102.839 (102 50' 20") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 BED MATERIAL SAND SAMPLE: COLOR L-YL-GY ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 15 ORGANIC MATERIAL(%) 01

## REMARKS:

1-38 STILLWELL CROSSING 7.5 MIN. TOPO. COLLECTED IN CENTER GOING UPSTREAM OVER A 70M INTERVAL STARTING 100M UPSTREAM FROM CONFLUENCE;

1-51 & 1-54 POORLY SORTED CARBONATE SAND;  
 1-78 BOB WEST & TEXAS PARKS AND WILDLIFE & 3407 S CHADBOURNE & SAN ANGELO, TX 76901;

027349 TYPE OTHER REPLICATE SAMPLER JHF AIR TEMP(C) + 24.0 WEATHER LT WIND-CLEAR  
 PHASE R MAP NH1309 SITE G077 TIME TAKEN 13/04/02/80 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.474 (29 28' 26") LONG 102.852 (102 51' 7") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL  
 SURFACE GEOL UNIT QD RESULTS REQ YES, RELEASED 800708 BED MATERIAL SAMPLE: COLOR M-YL-BN ODOR NONE

## REMARKS:

1-38 STILLWELL CROSSING 7.5 MIN QUAD READING TAKEN ON ALLUVIAL SURFACE 100M WEST OF ROAD. CARBONATE RICH TERRACE DEPOSIT;

1-78 BOB WEST & TEXAS PARKS AND WILDLIFE & 3407 S CHADBOURNE & SAN ANGELO, TX 76901;

027350 TYPE STREAM SEDIMENT REPLICATE SAMPLER JHF AIR TEMP(C) + 24.0 WEATHER LT WIND-CLEAR  
 PHASE E MAP NH1309 SITE G078 TIME TAKEN 15/04/02/80 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.481 (29 28' 51") LONG 102.857 (102 51' 25") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 BED MATERIAL PEBBLE SAMPLE: COLOR L-YL-GY ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 18 ORGANIC MATERIAL(%) 01

## REMARKS:

1-38 STILLWELL CROSSING 7.5 MIN QUAD COLLECTED IN THE CENTER GOING UPSTREAM OVER A 60M INTERVAL STARTING 88M UPSTREAM FROM CONFLUENCE:

J-51 # 1-54 POORLY SORTED CARBONATE SAND;

1-78 BOB WEST & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

027461	TYPE	STREAM SEDIMENT	REPLICATE	SAMPLER	CSL	AIR TEMP(C)	+ 17.0	WEATHER	LT WIND-CLEAR			
	PHASE	E	MAP	NH1309	SITE	G127	TIME TAKEN	10/04/02/80	RELIEF	MODERATE	VEGETATION	BRUSH-SPARSE
	LOCATION:	LAT	29.682	( 29 40'55")	LONG	102.987	(102 59'13")		CONTAMINANTS	NONE	STREAM FLOW(M/SEC)	
	SURFACE GEOL UNIT	QD	RESULTS REQ NO		,RELEASED	800708			WATER: WIDTH(M)		DEPTH(M)	LEVEL DRY
									BED MATERIAL	PEBBLE	SAMPLE: COLOR	L-GY-BN
												ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 01

## REMARKS:

1-38 MARAVILLAS CANYON N.W. 7.5' QUAD COLLECTED SEDIMENT OVER A 60M INTERVAL STARTING 22M UPSTREAM OF FORD AND GOING UPSTREAM IN MID-CHANNEL OF WESTERN CHANNEL:

1-51 CARBONATE:

027462	TYPE	STREAM SEDIMENT	REPLICATE	SAMPLER	CSL	AIR TEMP(C)	+ 18.0	WEATHER	LT WIND-CLEAR			
	PHASE	E	MAP	NH1309	SITE	G128	TIME TAKEN	12/04/02/80	RELIEF	MODERATE	VEGETATION	BRUSH-SPARSE
	LOCATION:	LAT	29.678	( 29 40'40")	LONG	102.973	(102 58'22")		CONTAMINANTS	NONE	STREAM FLOW(M/SEC)	
	SURFACE GEOL UNIT	LKSE	RESULTS REQ NO		,RELEASED	800708			WATER: WIDTH(M)		DEPTH(M)	LEVEL DRY
									BED MATERIAL	COBBLE	SAMPLE: COLOR	L-GY-BN
												ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 01

## REMARKS:

1-38 MARAVILLAS CANYON N.W. 7.5' QUAD COLLECTED SEDIMENT OVER A 61M INTERVAL STARTING 15M UPSTREAM OF FORD AND GOING UPSTREAM IN MID-CHANNEL:

1-51 CARBONATE:

027463	TYPE	STREAM SEDIMENT	REPLICATE	SAMPLER	CSL	AIR TEMP(C)	+ 18.0	WEATHER	-CLEAR			
	PHASE	E	MAP	NH1309	SITE	G129	TIME TAKEN	13/04/02/80	RELIEF	GENTLE	VEGETATION	BRUSH-SPARSE
	LOCATION:	LAT	29.674	( 29 40'26")	LONG	102.987	(102 59'13")		CONTAMINANTS	OTHER	STREAM FLOW(M/SEC)	
	SURFACE GEOL UNIT	QD	RESULTS REQ NO		,RELEASED	800708			WATER: WIDTH(M)		DEPTH(M)	LEVEL DRY
									BED MATERIAL	COBBLE	SAMPLE: COLOR	L-GY-BN
												ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 01

## REMARKS:

1-38 MARAVILLAS CANYON N.W. 7.5' QUAD COLLECTED SEDIMENT OVER A 83M INTERVAL STARTING 38M UPSTREAM OF FORD AND GOING UPSTREAM IN MID-CHANNEL:

1-51 CARBONATE DOM. ALSO BOLSON MATERIAL:

J-60 ROADS AND HOUSES UPSTREAM:



027464 TYPE STREAM SEDIMENT REPLICATE SAMPLER CSL AIR TEMP(C) + 19.0 WEATHER -CLEAR  
 PHASE E MAP NH1309 SITE G130 TIME TAKEN 14/04/02/80 RELIEF MODERATE VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.661 (29 39' 39") LONG 102.986 (102 59' 9") CONTAMINANTS OTHER STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 SURFACE GEOL UNIT QD RESULTS REQ NO ,RELEASED 800708 BED MATERIAL PEBBLE SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 01

## REMARKS:

1-38 MARAVILLAS CANYON N.W. 7.5' QUAD COLLECTED SEDIMENT OVER A 60M INTERVAL STARTING 106M DOWNSTREAM OF VOLCANIC KNOLL ON SW  
 BANK AND GOING UPSTREAM IN MID-CHANNEL;  
 1-51 DOM CARB.;  
 1-60 ROAD UPSTREAM;

027465 TYPE STREAM SEDIMENT REPLICATE SAMPLER CSL AIR TEMP(C) + 19.5 WEATHER -CLEAR  
 PHASE E MAP NH1309 SITE G131 TIME TAKEN 15/04/02/80 RELIEF GENTLE VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.656 (29 39' 21") LONG 102.989 (102 59' 20") CONTAMINANTS OTHER STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 SURFACE GEOL UNIT QD RESULTS REQ NO ,RELEASED 800708 BED MATERIAL SILT SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 01

## REMARKS:

1-38 MARAVILLAS CANYON N.W. 7.5' QUAD COLLECTED SEDIMENT OVER A 60M INTERVAL STARTING AT LARGE GREASEWOOD AND GOING UPSTREAM IN  
 MID-CHANNEL;  
 1-51 DOM CARB.;  
 1-60 ROAD AND DAMS UPSTREAM;

027466 TYPE STREAM SEDIMENT REPLICATE SAMPLER CSL AIR TEMP(C) + 15.0 WEATHER LT WIND-CLEAR  
 PHASE E MAP NH1309 SITE H132 TIME TAKEN 11/05/02/80 RELIEF MODERATE VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.672 (29 40' 19") LONG 102.957 (102 57' 25") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 SURFACE GEOL UNIT LKSE RESULTS REQ NO ,RELEASED 800708 BED MATERIAL BOULDER SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 01

## REMARKS:

1-38 MARAVILLAS CANYON N.W. 7.5' QUAD COLLECTED SEDIMENT OVER A 60M INTERVAL STARTING WHERE CHANNEL RUNS NEXT TO CLIFFS AND  
 GOING UPSTREAM IN MID-CHANNEL;  
 1-51 CARB;

027467 TYPE STREAM SEDIMENT REPLICATE SAMPLER CSL AIR TEMP(C) + 16.5 WEATHER LT WIND-CLEAR  
 PHASE E MAP NH1309 SITE H133 TIME TAKEN 12/05/02/80 RELIEF MODERATE VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.675 (29 40' 30") LONG 102.955 (102 57' 18") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 SURFACE GEOL UNIT LKSE RESULTS REQ NO ,RELEASED 800708 BED MATERIAL BOULDER SAMPLE: COLOR L-GY-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 02

## REMARKS:

J-38 MARAVILLAS CANYON N.W. 7.5' QUAD COLLECTED SEDIMENT OVER A 60M INTERVAL STARTING AT LARGE BOULDER AT BEND AND GOING UPSTREAM IN MID-CHANNEL;  
J-51 CARB:

027468 TYPE STREAM SEDIMENT REPLICATE SAMPLER CSL AIR TEMP(C) + 18.0 WEATHER LT WIND-CLEAR  
PHASE E MAP NH1309 SITE H134 TIME TAKEN 13/05/02/80 RELIEF MODERATE VEGETATION BRUSH-SPARSE  
LOCATION: LAT 29.671 (29 40' 15") LONG 102.942 (102 56' 31") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
SURFACE GEOL UNIT LKSE RESULTS REQ NO ,RELEASED 800708 BED MATERIAL BOULDER SAMPLE: COLOR L-GY-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 02

## REMARKS:

J-38 MARAVILLAS CANYON 7.5' QUAD COLLECTED SEDIMENT OVER A 60M INTERVAL STARTING AT TWO LARGE BOULDERS IN STREAM BED AND GOING UPSTREAM IN MID-CHANNEL;  
J-51 CARB:

027469 TYPE STREAM SEDIMENT REPLICATE SAMPLER CSL AIR TEMP(C) + 18.0 WEATHER -CLEAR  
PHASE E MAP NH1309 SITE H135 TIME TAKEN 14/05/02/80 RELIEF MODERATE VEGETATION BRUSH-SPARSE  
LOCATION: LAT 29.659 (29 39' 32") LONG 102.935 (102 56' 6") CONTAMINANTS OTHER STREAM FLOW(M/SEC)  
WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
SURFACE GEOL UNIT LKSE RESULTS REQ YES ,RELEASED 800708 BED MATERIAL BOULDER SAMPLE: COLOR L-GY-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 02

## REMARKS:

J-38 MARAVILLAS CANYON N.W. 7.5' QUAD COLLECTED SEDIMENT OVER A 70M INTERVAL STARTING 35M DOWNSTREAM OF BEND AND GOING UPSTREAM IN MID-CHANNEL;  
I-51 DOM. CARBONATE WITH SOME VOLCANICS;  
I-60 CARNOTITE PROSPECT IN UPPER REACHES OF THIS BASIN;  
J-78 BOB WEST & REGIONAL DIRECTOR & TEXAS PARKS & WILDLIFE & 3407 S CHADBOURNE & SAN ANGELO TEXAS 76901:

027470 TYPE STREAM SEDIMENT REPLICATE SAMPLER CSL AIR TEMP(C) + 17.0 WEATHER LT WIND-OVERCAST  
PHASE E MAP NH1309 SITE H136 TIME TAKEN 11/07/02/80 RELIEF GENTLE VEGETATION BRUSH-SPARSE  
LOCATION: LAT 29.650 (29 39' 0") LONG 102.994 (102 59' 38") CONTAMINANTS OTHER STREAM FLOW(M/SEC)  
WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
SURFACE GEOL UNIT QD RESULTS REQ NO ,RELEASED 800708 BED MATERIAL SJLT SAMPLE: COLOR L-GY-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 02

## REMARKS:

J-38 MARAVILLAS CANYON N.W. 7.5' QUAD COLLECTED SEDIMENT OVER A 60M INTERVAL STARTING 35M UPSTREAM OF ROAD AND GOING UPSTREAM IN MID-CHANNEL;  
I-51 BOLSON;  
I-60 STREAM BED DISTURBED BY CATTLE:



029206 TYPE STREAM SEDIMENT REPLICATE SAMPLER SAR AIR TEMP(C) + 26.5 WEATHER CALM-CLEAR  
 PHASE E MAP NH1309 SITE H181 TIME TAKEN 11/04/02/80 RELIEF HIGH VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.585( 29 35' 6") LONG 102.967(102 52' 1") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES ,RELEASED 800708 BED MATERIAL PEBBLE SAMPLE: COLOR L-OR-GY ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 01

## REMARKS:

1-38 MARAVILLAS CANYON SE QUAD; SAMPLE TAKEN OVER 60M DISTANCE AT 3M INTERVALS GOING UPSTREAM STARTING 40M ABOVE ROAD;  
 J-51 FINE TO COARSE-GRAINED SAND AND PEBBLES CONSISTING MAINLY OF LIMESTONE, WITH FEW GASSY, BASALTIC FRAGS;  
 I-78 BOB WEST, REGIONAL DIRECTOR & TEXAS PARKS & WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029207 TYPE OTHER REPLICATE SAMPLER SAR AIR TEMP(C) + 27.0 WEATHER -CLEAR  
 PHASE R MAP NH1309 SITE H182 TIME TAKEN 11/04/02/80 RELIEF HIGH VEGETATION GRASS-SPARSE  
 LOCATION: LAT 29.583( 29 34' 58") LONG 102.867(102 52' 1") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES ,RELEASED 800708 BED MATERIAL SAMPLE: COLOR L-GY-BN ODOR NONE

## REMARKS:

J-38 MARAVILLAS CANYON SE QUAD; READING TAKEN FROM FLAGGY LIMESTONE LOCATED ON S WALL OF STREAM BED; 150M FROM ROAD;  
 I-78 BOB WEST, REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029208 TYPE STREAM SEDIMENT REPLICATE SAMPLER SAR AIR TEMP(C) + 27.0 WEATHER LT WIND-CLEAR  
 PHASE E MAP NH1309 SITE H183 TIME TAKEN 12/04/02/80 RELIEF HIGH VEGETATION GRASS-SPARSE  
 LOCATION: LAT 29.563( 29 33' 46") LONG 102.846(102 50' 45") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES ,RELEASED 800708 BED MATERIAL PEBBLE SAMPLE: COLOR L-BN-GY ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 01

## REMARKS:

1-38 MARAVILLAS CANYON SE QUAD; SAMPLE TAKEN OVER 60M DISTANCE AT 3M INTERVALS GOING UPSTREAM STARTING 30M ABOVE ROAD;  
 J-51 FINE TO COARSE GRAINED SAND AND PEBBLES CONSISTING OF LIMESTONE AND SOME AGATE FRAGS;  
 I-78 BOB WEST, REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029209 TYPE STREAM SEDIMENT REPLICATE SAMPLER SAR AIR TEMP(C) + 26.0 WEATHER -CLEAR  
 PHASE E MAP NH1309 SITE H184 TIME TAKEN 13/05/02/80 RELIEF HIGH VEGETATION GRASS-SPARSE  
 LOCATION: LAT 29.558( 29 33' 28") LONG 102.837(102 50' 13") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES ,RELEASED 800708 BED MATERIAL COBBLE SAMPLE: COLOR L-OR-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 01

## REMARKS:

1-38 MARAVILLAS CANYON SE QUAD; SAMPLE TAKEN OVER 80M DISTANCE AT IRREGULAR INTERVALS GOING UPSTREAM STARTING 30M ABOVE ROAD;  
 I-51 FINE TO COARSE GRAINED SAND AND PEBBLES CONSISTING OF LIMESTONE AND FEW AGATE FRAGS;  
 I-78 BOB WEST, REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029210 TYPE OTHER REPLICATE SAMPLER SAR AIR TEMP(C) + 26.5 WEATHER -CLEAR  
 PHASE R MAP NH1309 SITE H185 TIME TAKEN 13/05/02/80 RELIEF HIGH VEGETATION GRASS-SPARSE  
 LOCATION: LAT 29.558 (29 33'28") LONG 102.837 (102 50'13") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT LKSP RESULTS REQ YES, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL  
 BED MATERIAL SAMPLE: COLOR L-PK-GY ODOR NONE

## REMARKS:

1-38 MARAVILLAS CANYON SE QUAD; READING TAKEN FROM FLAGGY, FOSSILIFEROUS LIMESTONE ON E SIDE OF STREAM, 10M FROM ROAD;  
 LIMESTONE HAS ABUNDANT IRON STAINING;

1-78 BOB WEST, REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029211 TYPE STREAM SEDIMENT REPLICATE SAMPLER SAR AIR TEMP(C) + 27.5 WEATHER -CLEAR  
 PHASE E MAP NH1309 SITE H186 TIME TAKEN 14/05/02/80 RELIEF HIGH VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.555 (29 33'18") LONG 102.816 (102 48'57") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT LKSP RESULTS REQ YES, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL PEBBLE SAMPLE: COLOR L-GY-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 01

## REMARKS:

1-38 MARAVILLAS CANYON SE QUAD; SAMPLE TAKEN OVER 60M DISTANCE AT IRREGULAR INTERVALS GOING UPSTREAM STARTING 20M ABOVE ROAD;  
 1-51 FINE GRAINED SILT, SAND TO COARSE GRAINED PEBBLES CONSISTING OF LIMESTONE, FEW AGATE AND BASALTIC, GASSY FRAGS; SOME  
 TUFFACEOUS FRAGS;

1-78 BOB WEST, REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029212 TYPE STREAM SEDIMENT REPLICATE SAMPLER SAR AIR TEMP(C) + 25.0 WEATHER -CLEAR  
 PHASE E MAP NH1309 SITE H187 TIME TAKEN 14/05/02/80 RELIEF HIGH VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.562 (29 33'43") LONG 102.781 (102 46'51") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT QD RESULTS REQ YES, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL COBBLE SAMPLE: COLOR L-BN-GY ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 01

## REMARKS:

1-38 MARAVILLAS CANYON SE QUAD; SAMPLE COLLECTED OVER 100M DISTANCE AT IRREGULAR INTERVALS GOING UPSTREAM STARTING 20M ABOVE  
 ROAD;

1-51 FINE SILT TO COARSE PEBBLES CONSISTING OF LIMESTONE, AGATE, BASALTIC AND TUFFACEOUS FRAGS;

1-78 BOB WEST, REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029213 TYPE STREAM SEDIMENT REPLICATE SAMPLER SAR AIR TEMP(C) + 25.0 WEATHER LT WIND-CLEAR  
 PHASE E MAP NH1309 SITE H188 TIME TAKEN 16/05/02/80 RELIEF HIGH VEGETATION GRASS-SPARSE  
 LOCATION: LAT 29.566 (29 33'57") LONG 102.777 (102 46'37") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT QD RESULTS REQ YES, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL COBBLE SAMPLE: COLOR L-BN-GY ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 01

## REMARKS:



1-38 MARAVILLAS CANYON SE QUAD; SAMPLE COLLECTED OVER 30M DISTANCE AT 3M INTERVALS GOING UPSTREAM STARTING 20M ABOVE ROAD;  
 1-51 FINE SILT TO COARSE PEBBLES CONSISTING OF LIMESTONE, AGATE, BASALTIC AND TUFFACEOUS ROCKS;  
 1-78 BOB WEST, REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029214 TYPE STREAM SEDIMENT REPLICATE SAMPLER SAR AIR TEMP(C) + 28.0 WEATHER LT WIND-CLEAR  
 PHASE E MAP NH1309 SITE H189 TIME TAKEN 11/06/02/80 RELIEF HIGH VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.600 (29 36' 0") LONG 102.847 (102 50' 49") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT LKSP RESULTS REQ YES, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL COBBLE SAMPLE: COLOR L-OR-GY ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 01

## REMARKS:

1-38 MARAVILLAS CANYON SE QUAD, SAMPLE TAKEN OVER 30M DISTANCE AT 3M INTERVALS ALONG CHANNELS STARTING AT BASE OF SMALL HILL ON  
 E SIDE OF CANYON;  
 1-51 FINE TO COARSE SAND AND PEBBLES CONSISTING PRIMARILY OF LIMESTONE FRAGS, WITH FEW AGATE FRAGS;  
 1-78 BOB WEST, REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029215 TYPE OTHER REPLICATE SAMPLER SAR AIR TEMP(C) + 27.5 WEATHER LT WIND-CLEAR  
 PHASE R MAP NH1309 SITE H190 TIME TAKEN 11/06/02/80 RELIEF HIGH VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.604 (29 36' 14") LONG 102.846 (102 50' 45") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT LKSP RESULTS REQ YES, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL  
 BED MATERIAL SAMPLE: COLOR M-GY-BN ODOR NONE

## REMARKS:

1-38 MARAVILLAS CANYON SE QUAD; READING TAKEN ON MASSIVE, POCK MARKED LIMESTONE ON W SIDE OF ROAD;  
 1-78 BOB WEST, REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029217 TYPE STREAM SEDIMENT REPLICATE SAMPLER SAR AIR TEMP(C) + 28.0 WEATHER CALM-CLEAR  
 PHASE E MAP NH1309 SITE H191 TIME TAKEN 13/06/02/80 RELIEF HIGH VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.603 (29 36' 10") LONG 102.872 (102 52' 19") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL PEBBLE SAMPLE: COLOR L-GY-OR ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 01

## REMARKS:

1-38 MARAVILLAS CANYON SE QUAD; SAMPLE TAKEN OVER 100M DISTANCE AT IRREGULAR INTERVALS GOING UPSTREAM STARTING 30M ABOVE ROAD;  
 1-51 FINE TO COARSE SAND AND PEBBLES CONSISTING OF LIMESTONE FRAGS AND FEW AGATE FRAGS;  
 1-78 BOB WEST, REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029218 TYPE OTHER REPLICATE SAMPLER SAR AIR TEMP(C) + 28.5 WEATHER CALM-CLEAR  
 PHASE R MAP NH1309 SITE H192 TIME TAKEN 13/06/02/80 RELIEF HIGH VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.589 (29 35' 20") LONG 102.863 (102 51' 46") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL  
 BED MATERIAL SAMPLE: COLOR M-GY-BN ODOR NONE

## REMARKS:

1-38 MARAVILLAS CANYON SE QUAD; READING TAKEN FROM PITTED, MASSIVE LIMESTONE WHICH IS SANTA ELENA; LOCATION IS 5M S OF ROAD;  
1-78 BOB WEST, REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029219 TYPE OTHER REPLICATE SAMPLER SAR AIR TEMP(C) + 27.5 WEATHER CALM-CLEAR  
PHASE R MAP NH1309 SITE H193 TIME TAKEN 14/06/02/80 RELIEF HIGH VEGETATION BRUSH-SPARSE  
LOCATION: LAT 29.596( 29 35'45") LONG 102.769(102 46' 8") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
SURFACE GEOL UNIT LKLT RESULTS REQ YES, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL  
BED MATERIAL SAMPLE: COLOR M-BN-GY ODOR NONE

## REMARKS:

1-38 MARAVILLAS CANYON SE QUAD; READING TAKEN ON MASSIVE, PITTED LIMESTONE THAT MAKES UP BED OF ROAD;  
1-78 BOB WEST, REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029220 TYPE OTHER REPLICATE SAMPLER SAR AIR TEMP(C) + 28.0 WEATHER CALM-CLEAR  
PHASE R MAP NH1309 SITE H194 TIME TAKEN 14/06/02/80 RELIEF HIGH VEGETATION BRUSH-SPARSE  
LOCATION: LAT 29.599( 29 35'56") LONG 102.765(102 45'54") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
SURFACE GEOL UNIT LKLT RESULTS REQ YES, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL  
BED MATERIAL SAMPLE: COLOR M-GY-BN ODOR NONE

## REMARKS:

1-38 MARAVILLAS CANYON SE QUAD; READING TAKEN ON THINLY BEDDED, PUNKY LIMESTONE ON N SIDE OF ROAD; THIS UNIT OVERLAIN BY  
MASSIVE LIMESTONE LAYER WITH RADIOMETRIC READING OF 44 CPS;  
1-78 BOB WEST, REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029221 TYPE STREAM SEDIMENT REPLICATE SAMPLER SAR AIR TEMP(C) + 28.5 WEATHER CALM-CLEAR  
PHASE E MAP NH1309 SITE H195 TIME TAKEN 15/06/02/80 RELIEF HIGH VEGETATION BRUSH-SPARSE  
LOCATION: LAT 29.600( 29 36' 0") LONG 102.759(102 45'32") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
SURFACE GEOL UNIT LKT RESULTS REQ YES, RELEASED 800703 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
BED MATERIAL SAND SAMPLE: COLOR L-GY-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 01

## REMARKS:

1-38 MARAVILLAS CANYON SE QUAD; SAMPLE TAKEN OVER 60M DISTANCE AT 3M INTERVALS GOING UPSTREAM STARTING 30M ABOVE ROAD;  
1-51 FINE SILT, FINE SAND TO PEBBLES CONSISTING OF LIMESTONE FRAGS;  
1-78 BOB WEST, REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029222 TYPE STREAM SEDIMENT REPLICATE SAMPLER SAR AIR TEMP(C) + 27.5 WEATHER LT WIND-CLEAR  
PHASE E MAP NH1309 SITE H196 TIME TAKEN 15/06/02/80 RELIEF HIGH VEGETATION BRUSH-SPARSE  
LOCATION: LAT 29.591( 29 35'27") LONG 102.769(102 46' 8") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
SURFACE GEOL UNIT LKT RESULTS REQ YES, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
BED MATERIAL SAND SAMPLE: COLOR L-BN-GY ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 01

## REMARKS:



1-38 MARAVILLAS CANYON SE QUAD; SAMPLE TAKEN OVER 60M DISTANCE AT 3M INTERVALS GOING UPSTREAM STARTING 30M ABOVE ROAD;  
 1-51 FINE SILT TO COARSE PEBBLES CONSISTING OF LIMESTONE AND VERY FEW TUFFACEOUS FRAGS;  
 1-78 BOB WEST, REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029237 TYPE STREAM SEDIMENT REPLICATE SAMPLER CJS AIR TEMP(C) + 19.5 WEATHER LT WIND-CLEAR  
 PHASE E MAP NH1309 SITE H211 TIME TAKEN 11/15/02/80 RELIEF GENTLE VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.769( 29 46' 8") LONG 102.979(102 58'44") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL PEBBLE SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 01

## REMARKS:

1-38 DOVE MOUNTAIN 15' QUAD, SAMPLE COLLECTED OVER A 60M INTERVAL GOING UPSTREAM STARTING 25M UPSTREAM FROM ROAD;  
 1-51 LIMESTONE FRAGMENTS;  
 1-78 HERMAN MAYHEW & 13059 BERRY KNOLL & DALLAS, TX 75230;

029259 TYPE STREAM SEDIMENT REPLICATE SAMPLER CJS AIR TEMP(C) + 23.0 WEATHER CALM-CLEAR  
 PHASE E MAP NH1309 SITE H232 TIME TAKEN 11/04/02/80 RELIEF MODERATE VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.528( 29 31'40") LONG 102.887(102 53'13") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT QD RESULTS REQ YES, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL SILT SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 18 ORGANIC MATERIAL(%)

## REMARKS:

1-38 MARAVILLAS CANYON SW 7 1/2' QUAD., SAMPLE COLLECTED OVER A 60M INTERVAL GOING UPSTREAM STARTING 30M UPSTREAM FROM ROAD;  
 1-51 CLAY, SAND, SILT WITH SMALL LIMESTONE AND VOLCANIC ROCK FRAGMENTS;  
 1-78 BOB WEST & REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX. 76901;

029260 TYPE STREAM SEDIMENT REPLICATE SAMPLER CJS AIR TEMP(C) + 24.0 WEATHER CALM-CLEAR  
 PHASE E MAP NH1309 SITE H233 TIME TAKEN 12/04/02/80 RELIEF MODERATE VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.509( 29 30'32") LONG 102.890(102 53'24") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT UKSE RESULTS REQ YES, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL COBBLE SAMPLE: COLOR L-YL-BN ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%)

## REMARKS:

1-38 MARAVILLAS CANYON SW 7 1/2' QUAD., SAMPLE COLLECTED OVER A 60M INTERVAL GOING UPSTREAM STARTING 50M UPSTREAM FROM ROAD;  
 1-51 LIMESTONE BEDROCK AND LIMESTONE ROCK FRAGMENTS;  
 1-78 BOB WEST & REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX. 76901;

029261 TYPE OTHER REPLICATE SAMPLER CJS AIR TEMP(C) + 24.0 WEATHER  
 PHASE R MAP NH1309 SITE H234 TIME TAKEN 12/04/02/80 RELIEF VEGETATION  
 LOCATION: LAT 29.509( 29 30'32") LONG 102.889(102 53'20") CONTAMINANTS NONE STREAM FLOW(M/SEC)

SURFACE GEOL UNIT LKSE RESULTS REQ YES ,RELEASED 800708

WATER: WIDTH(M)  
BED MATERIALDEPTH(M)  
SAMPLE: COLOR L-PK-GY LEVEL  
ODOR NONE

## REMARKS:

1-38 MARAVILLAS CANYON SW 7 1/2' QUAD., READING TAKEN ON LIMESTONE BEDROCK IN STREAM 55M UPSTREAM FROM ROAD;  
 J-78 BOB WEST & REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S CHADBOURNE & SAN ANGELO, TX 76901;

029262 TYPE STREAM SEDIMENT REPLICATE SAMPLER CJS  
 PHASE E MAP NH1309 SITE H235 TIME TAKEN 13/04/02/80  
 LOCATION: LAT 29.504 (29 30' 14") LONG 102.887 (102 53' 13")  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES ,RELEASED 800708

AIR TEMP(C) + 26.0 WEATHER CALM-CLEAR  
 RELIEF MODERATE VEGETATION BRUSH-SPARSE  
 CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL PEBBLE SAMPLE: COLOR M-GY-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL (%)

## REMARKS:

1-38 MARAVILLAS CANYON SW 7 1/2' QUAD., SAMPLE COLLECTED OVER A 50M INTERVAL GOING UPSTREAM STARTING 40M UPSTREAM FROM ROAD;  
 1-51 LIMESTONE ROCK FRAGMENTS WITH FINER MATERIAL INTERSPERSED;  
 J-78 BOB WEST & REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S CHADBOURNE & SAN ANGELO, TX 76901;

029263 TYPE OTHER REPLICATE SAMPLER CJS  
 PHASE R MAP NH1309 SITE H236 TIME TAKEN 15/04/02/80  
 LOCATION: LAT 29.505 (29 30' 18") LONG 102.887 (102 53' 13")  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES ,RELEASED 800708

AIR TEMP(C) + 26.0 WEATHER LT WIND-CLEAR  
 RELIEF MODERATE VEGETATION BRUSH-SPARSE  
 CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL  
 BED MATERIAL SAMPLE: COLOR L-PK-GY ODOR NONE

## REMARKS:

1-38 MARAVILLAS CANYON SW 7 1/2' QUAD., READING TAKEN ON FLAGGY LIMESTONE OUTCROP ON WEST SIDE OF ROAD;  
 J-78 BOB WEST & REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S CHADBOURNE & SAN ANGELO, TX 76901;

029264 TYPE STREAM SEDIMENT REPLICATE SAMPLER CJS  
 PHASE E MAP NH1309 SITE H237 TIME TAKEN 15/04/02/80  
 LOCATION: LAT 29.509 (29 30' 32") LONG 102.895 (102 53' 42")  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES ,RELEASED 800708

AIR TEMP(C) + 26.5 WEATHER LT WIND-CLEAR  
 RELIEF MODERATE VEGETATION BRUSH-SPARSE  
 CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL PEBBLE SAMPLE: COLOR M-GY-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL (%)

## REMARKS:

J-38 MARAVILLAS CANYON SW 7 1/2' QUAD., SAMPLE COLLECTED OVER A 60M INTERVAL GOING UPSTREAM STARTING 20M UPSTREAM FROM ROAD;  
 1-51 LIMESTONE ROCK FRAGMENTS AND FINER MATERIAL INTERSPERSED;  
 1-78 BOB WEST & REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S CHADBOURNE & SAN ANGELO, TX 76901;

029265 TYPE OTHER REPLICATE SAMPLER CJS  
 PHASE R MAP NH1309 SITE H238 TIME TAKEN 15/04/02/80  
 LOCATION: LAT 29.552 (29 33' 7") LONG 102.942 (102 56' 31")

AIR TEMP(C) + 26.0 WEATHER V WINDY-CLEAR  
 RELIEF HIGH VEGETATION BRUSH-SPARSE  
 CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL



SURFACE GEOL UNIT TEU RESULTS REQ YES ,RELEASED 800708 BED MATERIAL SAMPLE: COLOR D-OR-BN ODOR NONE

## REMARKS:

1-38 MARAVILLAS CANYON SW 7 1/2' QUAD., READING TAKEN ON AMYGDALOIDAL BASALT OUTCROP ON WEST SIDE OF ROAD:  
1-78 BOB WEST & REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S CHADBOURNE & SAN ANGELO, TX 76901;

029266 TYPE STREAM SEDIMENT REPLICATE SAMPLER CJS AIR TEMP(C) + 26.0 WEATHER U WINDY-CLEAR  
PHASE E MAP NH1309 SITE H239 TIME TAKEN 16/04/02/80 RELIEF HIGH VEGETATION BRUSH-SPARSE  
LOCATION: LAT 29.577( 29 34' 37") LONG 102.969(102 58' 8") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
SURFACE GEOL UNIT LKSE RESULTS REQ YES ,RELEASED 800708 BED MATERIAL PEBBLE SAMPLE: COLOR L-GY-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL (%)

## REMARKS:

1-38 MARAVILLAS CANYON SW 7 1/2' QUAD., SAMPLE COLLECTED OVER A 50M INTERVAL GOING UPSTREAM STARTING 40M UPSTREAM FROM ROAD:  
1-51 LIMESTONE ROCK FRAGMENTS WITH FINER MATERIAL INTERSPERSED;  
1-78 BOB WEST & REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S CHADBOURNE SAN ANGELO, TX 76901;

029267 TYPE OTHER REPLICATE SAMPLER CJS AIR TEMP(C) + 26.0 WEATHER  
PHASE R MAP NH1309 SITE H240 TIME TAKEN 16/04/02/80 RELIEF VEGETATION  
LOCATION: LAT 29.576( 29 34' 33") LONG 102.969(102 58' 8") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
WATER: WIDTH(M) DEPTH(M) LEVEL  
SURFACE GEOL UNIT UKSE RESULTS REQ YES ,RELEASED 800708 BED MATERIAL SAMPLE: COLOR L-YL-WH ODOR NONE

## REMARKS:

1-38 MARAVILLAS CANYON SW 7 1/2' QUAD., READING TAKEN AT BASE OF FLAGGY LIMESTONE OUTCROP ON NORTH BANK OF STREAM:  
1-78 BOB WEST & REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S CHADBOURNE & SAN ANGELO, TX. 76901;

029268 TYPE STREAM SEDIMENT REPLICATE SAMPLER CJS AIR TEMP(C) + 26.5 WEATHER CALM-CLEAR  
PHASE E MAP NH1309 SITE H241 TIME TAKEN 13/04/02/80 RELIEF MODERATE VEGETATION BRUSH-SPARSE  
LOCATION: LAT 29.506( 29 30' 21") LONG 102.887(102 53' 13") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
SURFACE GEOL UNIT LKSE RESULTS REQ YES ,RELEASED 800708 BED MATERIAL PEBBLE SAMPLE: COLOR M-GY-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 18 ORGANIC MATERIAL (%)

## REMARKS:

1-38 MARAVILLAS CANYON SW 7 1/2' QUAD., SAMPLE COLLECTED OVER A 60M INTERVAL GOING UPSTREAM STARTING 40M UPSTREAM FROM  
CONFLUENCE;  
1-51 LIMESTONE ROCK FRAGMENTS WITH FINER MATERIAL INTERSPERSED;  
1-78 BOB WEST & REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029269 TYPE WELL WATER REPLICATE SAMPLER CJS AIR TEMP(C) + 14.5 WEATHER U WIND-CLEAR  
PHASE E MAP NH1309 SITE H242 TIME TAKEN 10/05/02/80 RELIEF MODERATE VEGETATION BRUSH-SPARSE  
LOCATION: LAT 29.571( 29 34' 15") LONG 102.946(102 56' 45") CONTAMINANTS NONE  
SURFACE GEOL UNIT QD RESULTS REQ YES ,RELEASED 800708 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	1150	DISSOLVED OXYGEN(PPM)	9.3
WATER TEMP(C)	+ 12.2	VISIBILITY(M)	CLEAR	PH	6.9 LO-TON PAPER
TOTAL ALKALINITY(PPM)	260	P ALKALINITY(PPM)	55	M ALKALINITY(PPM)	255
APPEARANCE	CLEAR	DISCHARGE(L/M)			
PRODUCING HORIZON	LKSE	CONFIDENCE	POSSIBLE	SOURCE	GEOL. INFERENCE

## WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	STEEL	PIPE COMPOSITION	GALVANIZED
METERS FROM HEAD	25	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSEHOLD	PUMPING FREQUENCY	FREQUENT
DEPTH TO PROD HORIZON(M)	333	CONFIDENCE OF PRODUCING DEPTH	POSSIBLE	SOURCE OF PRODUCING INFORMATION		GEOL. INFERENCE	
WELL DEPTH(M)	333	CONFIDENCE OF WELL DEPTH	POSSIBLE	SOURCE OF DEPTH INFORMATION		GEOL. INFERENCE	

## REMARKS:

1-38 MARAVILLAS CANYON SW 7 1/2' QUAD., SAMPLE COLLECTED FROM GROUND FAUCET IN EAST OF RANCH SHED AND OFFICE. WELL IS AT BASE OF OLD WINDMILL 6M NORTH OF SHED;  
 J-78 BOB WEST & REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S CHADBOURNE & SAN ANGELO, TX 76901;

029270	TYPE	STREAM SEDIMENT	REPLICATE	SAMPLER	CJS	AIR TEMP(C)	+ 15.0	WEATHER	LT WIND-CLEAR			
	PHASE	E	MAP	NH1309	SITE	H243	TIME TAKEN	11/05/02/80	RELIEF	MODERATE	VEGETATION	BRUSH-SPARSE
	LOCATION:	LAT	29.571(29 34' 15")	LONG	102.943(102 56' 34")	CONTAMINANTS	NONE	STREAM FLOW(M/SEC)				
	SURFACE GEOL UNIT	LKSP	RESULTS REQ	YES	RELEASED	800708	WATER: WIDTH(M)		DEPTH(M)		LEVEL	DRY
							BED MATERIAL	PEBBLE	SAMPLE: COLOR	L-GY-BN	ODOR	NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION	DRY	SAMPLE TREATMENT	NONE	NUMBER OF GRABS	20	ORGANIC MATERIAL(%)	
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## REMARKS:

1-38 MARAVILLAS CANYON SW 7 1/2' QUAD., SAMPLE COLLECTED OVER A 60M INTERVAL GOING UPSTREAM STARTING AT POINT DESIGNATED ON MAP;  
 J-51 PEBBLES OF LIMESTONE, SOME OF BASALT; WITH FINER MATERIAL INTERSPERSED;  
 J-78 BOB WEST & REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S CHADBOURNE & SAN ANGELO, TX 76901;

029284	TYPE	OTHER	REPLICATE	SAMPLER	MEW	AIR TEMP(C)	+ 12.0	WEATHER	V WINDY-RAINY			
	PHASE	R	MAP	NH1309	SITE	H256	TIME TAKEN	11/06/02/80	RELIEF	LOW	VEGETATION	BRUSH-MODERATE
	LOCATION:	LAT	29.576(29 34' 33")	LONG	103.038(103 2' 16")	CONTAMINANTS	NONE	STREAM FLOW(M/SEC)				
	SURFACE GEOL UNIT	TJ	RESULTS REQ	YES	RELEASED	800708	WATER: WIDTH(M)		DEPTH(M)		LEVEL	
							BED MATERIAL		SAMPLE: COLOR	M-RD-BN	ODOR	NONE

## REMARKS:

1-38 DAGGER FLATS 7 1/2' QUAD; READING TAKEN ON FLAT TOP SURFACE 10 METERS DOWN FROM CONTACT;  
 J-51 UNIT IS EXTREMELY WEATHER. INTRUSION FOLLOWS LITHOLOGICAL BOUNDARIES. COMPOSED OF COARSE CRYSTALLINE LIGHT AND DARK MINERALS OF APPROXIMATELY EQUAL PORPORTIONS;  
 J-78 ROBERT WEST & REGIONAL DIRECTOR & 3407 S CHADBOURNE & SAN ANGELO, TX & 76901;

029285	TYPE	OTHER	REPLICATE	SAMPLER	MEW	AIR TEMP(C)	+ 12.0	WEATHER				
	PHASE	R	MAP	NH1309	SITE	H257	TIME TAKEN	11/06/02/80	RELIEF	LOW	VEGETATION	BRUSH-MODERATE
	LOCATION:	LAT	29.576(29 34' 33")	LONG	103.037(103 2' 13")	CONTAMINANTS		STREAM FLOW(M/SEC)				
	SURFACE GEOL UNIT	LKLB	RESULTS REQ	YES	RELEASED	800708	WATER: WIDTH(M)		DEPTH(M)		LEVEL	
							BED MATERIAL		SAMPLE: COLOR	L-BU-GY	ODOR	NONE



## REMARKS:

1-38 DAGGER FLATS QUAD; READING TAKEN ON THICKEST UNIT 15 METERS BELOW SUMMIT;

1-51 MICROGRANULAR, HARD, SILICEOUS, 18 METERS THICK;

1-78 ROBERT WEST & REGIONAL DIRECTOR & 3407 S. CHADBOURNE & SAN ANGELO, TX & 76901;

029286	TYPE	OTHER	REPLICATE	SAMPLER	MEH	AIR TEMP(C) + 20.0	WEATHER	-CLEAR
	PHASE R	MAP NH1309	SITE H258	TIME TAKEN	10/05/02/80	RELIEF MODERATE	VEGETATION	BRUSH-MODERATE
	LOCATION:	LAT 29.557(29 33'25")	LONG 103.029(103 1'44")	CONTAMINANTS		WATER: WIDTH(M)	DEPTH(M)	LEVEL
	SURFACE GEOL UNIT	UKSE	RESULTS REQ YES	RELEASED	800708	BED MATERIAL	SAMPLE: COLOR L-YL-GY	ODOR NONE

## REMARKS:

1-38 DAGGER FLATS QUAD; READING TAKEN ON OUTCROP ON WALL BEHIND QUARRY;

1-51 A MICRO-CRYSTALLINE UNIT WITH CLAY LENSES AND FRACTURE ZONE INFILLING WITH GYPSUM;

1-78 ROBERT WEST & REGIONAL DIRECTOR & 3407 S. CHADBOURNE & SAN ANGELO, TX & 76901;

029287	TYPE	OTHER	REPLICATE	SAMPLER	MEH	AIR TEMP(C) + 20.0	WEATHER	-CLEAR
	PHASE R	MAP NH1309	SITE H259	TIME TAKEN	10/05/02/80	RELIEF MODERATE	VEGETATION	BRUSH-MODERATE
	LOCATION:	LAT 29.558(29 33'28")	LONG 103.027(103 1'37")	CONTAMINANTS		WATER: WIDTH(M)	DEPTH(M)	LEVEL
	SURFACE GEOL UNIT	LKSE	RESULTS REQ YES	RELEASED	800708	BED MATERIAL	SAMPLE: COLOR M-BU-GY	ODOR NONE

## REMARKS:

1-38 DAGGER FLATS QUAD; READING TAKEN ON OUTCROP 25 METERS WEST OF ROAD WHERE LKSE IS STAINED BLUE;

1-51 SANTA ELENA WEATHERS PITTED. BLUE STAIN IS POWDERY, APPEARS TO BE MANGANESE-MOLYBDENUM COMPOUND;

1-78 ROBERT WEST & REGIONAL DIRECTOR & 3407 S. CHADBOURNE & SAN ANGELO, TX & 76901;

029288	TYPE	STREAM SEDIMENT	REPLICATE	SAMPLER	MEH	AIR TEMP(C) + 23.0	WEATHER	-CLEAR	
	PHASE E	MAP NH1309	SITE H260	TIME TAKEN	14/05/02/80	RELIEF HIGH	VEGETATION	BRUSH-MODERATE	
	LOCATION:	LAT 29.559(29 33'32")	LONG 103.021(103 1'15")	CONTAMINANTS	NONE	WATER: WIDTH(M)	DEPTH(M)	LEVEL DRY	
	SURFACE GEOL UNIT	LKSE	RESULTS REQ YES	RELEASED	800708	BED MATERIAL	COBBLE	SAMPLE: COLOR L-BU-GY	ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 01

## REMARKS:

1-38 DAGGER FLAT QUAD; SAMPLE COLLECTED OVER 70M STARTING 30M, UPSTREAM OF ROAD CROSSING;

1-51 SAMPLE IS LIMESTONE IN ORIGIN. SOME CHERT AND GYPSUM VISIBLE;

1-78 ROBERT WEST & REGIONAL DIRECTOR & 3407 S. CHADBOURNE & SAN ANGELO, TX & 76901;

029289	TYPE	OTHER	REPLICATE	SAMPLER	MEH	AIR TEMP(C) + 18.0	WEATHER	LT WIND-CLEAR
	PHASE R	MAP NH1309	SITE H261	TIME TAKEN	09/12/02/80	RELIEF GENTLE	VEGETATION	BRUSH-MODERATE
	LOCATION:	LAT 29.545(29 32'42")	LONG 103.010(103 0'36")	CONTAMINANTS		WATER: WIDTH(M)	DEPTH(M)	LEVEL
	SURFACE GEOL UNIT	LKSE	RESULTS REQ YES	RELEASED	800708	BED MATERIAL	SAMPLE: COLOR L-RD-BU	ODOR NONE

## REMARKS:

1-38 DAGGER FLATS; READING TAKEN ON ONLY FLAT SURFACE OF OUTCROP IN STREAM BED;

1-51 WEATHERS PURPLE, LARGE IRON CONCENTRATED AREAS IN JOGS. WEATHERS IN PILLOWY FASHION;  
1-78 ROBERT WEST REGIONAL DIRECTOR 3407 S. CHADBOURNE SAN ANGELO, TX 76901;

029290 TYPE OTHER REPLICATE SAMPLER MEW AIR TEMP(C) + 19.0 WEATHER LT WIND-CLEAR  
PHASE R MAP NH1309 SITE H262 TIME TAKEN 10/12/02/80 RELIEF GENTLE VEGETATION BRUSH-MODERATE  
LOCATION: LAT 29.545( 29 32'42") LONG 103.012(103 0'43") CONTAMINANTS STREAM FLOW(M/SEC)  
WATER: WIDTH(M) DEPTH(M) LEVEL  
SURFACE GEOL UNIT UKSE RESULTS REQ YES, RELEASED 800708 BED MATERIAL SAMPLE: COLOR M-YL-GN ODOR NONE

## REMARKS:

1-38 DAGGER FLATS QUAD; READING TAKEN ON FAULT SET 3 METERS ABOVE STREAM;  
1-51 THIN BEDDED, SOME WAVY-BEDDING, HIGHLY MINERALIZED FROM DOWNWARD PERCOLATION OF WATER FROM T1;  
1-78 ROBERT WEST REGIONAL DIRECTOR 3407 S. CHADBOURNE SAN ANGELO, TX 76901;

029291 TYPE OTHER REPLICATE SAMPLER MEW AIR TEMP(C) + 19.0 WEATHER LT WIND-CLEAR  
PHASE R MAP NH1309 SITE H263 TIME TAKEN 12/12/02/80 RELIEF GENTLE VEGETATION BRUSH-MODERATE  
LOCATION: LAT 29.545( 29 32'42") LONG 103.013(103 0'46") CONTAMINANTS STREAM FLOW(M/SEC)  
WATER: WIDTH(M) DEPTH(M) LEVEL  
SURFACE GEOL UNIT T1 RESULTS REQ YES, RELEASED 800708 BED MATERIAL SAMPLE: COLOR M-RD-BN ODOR NONE

## REMARKS:

1-38 DAGGER FLATS; READING TAKEN AT CALCITE FRACTURE CONTACT IN T1;  
1-51 EXTREMELY WEATHERED, LARGE CRYSTALS, EQUAL PROPORTIONS OF LIGHT AND PINK MINERALS;  
1-78 ROBERT WEST REGIONAL DIRECTOR 3407 S. CHADBOURNE SAN ANGELO, TX 76901;

029293 TYPE OTHER REPLICATE SAMPLER MEW AIR TEMP(C) + 20.0 WEATHER LT WIND-CLEAR  
PHASE R MAP NH1309 SITE H264 TIME TAKEN 12/12/02/80 RELIEF GENTLE VEGETATION BRUSH-MODERATE  
LOCATION: LAT 29.544( 29 32'38") LONG 103.013(103 0'46") CONTAMINANTS STREAM FLOW(M/SEC)  
WATER: WIDTH(M) DEPTH(M) LEVEL  
SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 BED MATERIAL SAMPLE: COLOR L-BU-GY ODOR NONE

## REMARKS:

1-38 DAGGER FLATS QUAD; READING TAKEN DIRECTLY ABOVE T1 UNIT ON THICKEST SECTION OF LKSE;  
1-51 THIN AND THICK BEDS, WEATHERS TO YELLOW-GREEN, SOME NODULAR CHERT;  
1-78 ROBERT WEST REGIONAL DIRECTOR 3407 S. CHADBOURNE SAN ANGELO, TX 76901;

029294 TYPE STREAM SEDIMENT REPLICATE SAMPLER MEW AIR TEMP(C) + 23.0 WEATHER LT WIND-CLEAR  
PHASE E MAP NH1309 SITE H265 TIME TAKEN 13/12/02/80 RELIEF LOW VEGETATION BRUSH-MODERATE  
LOCATION: LAT 29.526( 29 31'33") LONG 103.013(103 0'46") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 BED MATERIAL NONE SAMPLE: COLOR L-BU-GY ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL (%) 0

## REMARKS:

1-38 DAGGER FLATS QUAD; SAMPLE COLLECTED OVER 60 METERS STARTING 30 METERS UPSTREAM FROM ROCK LEDGE FALL;  
1-51 COARSE SAND TO PBBLES OF LIMESTONE ORIGIN, MOSTLY LKSE;  
1-71 BEDROCK PREDOMINATES;



1-78 ROBERT WEST & REGIONAL DIRECTOR & 3407 S. CHADBOURNE & SAN ANGELO, TX & 76901;

029295 TYPE OTHER REPLICATE SAMPLER MEW AIR TEMP(C) + 22.5 WEATHER LT WIND-CLEAR  
 PHASE R MAP NH1309 SITE H266 TIME TAKEN 13/12/02/80 RELIEF LOW VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.525( 29 31'30") LONG 103.013(103 0'46") CONTAMINANTS STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES ,RELEASED 800708 BED MATERIAL SAMPLE: COLOR L-BU-GY ODOR NONE

## REMARKS:

1-38 DAGGER FLATS QUAD; READING TAKEN ON BEDROCK OF STREAM BED;  
 1-51 WEATHERS BLUE-GRAY, FORMS SHARP EDGES WHEN WEATHERS;  
 1-78 ROBERT WEST & REGIONAL DIRECTOR & 3407 S. CHADBOURNE & SAN ANGELO, TX & 76901;

029296 TYPE OTHER REPLICATE SAMPLER MEW AIR TEMP(C) + 24.0 WEATHER LT WIND-CLEAR  
 PHASE R MAP NH1309 SITE H267 TIME TAKEN 14/12/02/80 RELIEF LOW VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.540( 29 32'24") LONG 103.008(103 0'28") CONTAMINANTS STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL  
 SURFACE GEOL UNIT UKSE RESULTS REQ YES ,RELEASED 800708 BED MATERIAL SAMPLE: COLOR L-BU-GY ODOR NONE

## REMARKS:

1-38 DAGGER FLATS QUAD; READING TAKEN 20 METERS WEST OF ROAD ON LARGEST SECTION OF UKSE;  
 1-51 WEATHERED; MYLONITIC, NODULATED, SILICEOUS LIMESTONE;  
 1-78 ROBERT WEST & REGIONAL DIRECTOR & 3407 S. CHADBOURNE & SAN ANGELO, TX & 76901;

029300 TYPE STREAM SEDIMENT REPLICATE SAMPLER MEW AIR TEMP(C) + 26.0 WEATHER LT WIND-CLEAR  
 PHASE E MAP NH1309 SITE H270 TIME TAKEN 10/16/02/80 RELIEF LOW VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.757( 29 45'25") LONG 102.884(102 53' 2") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES ,RELEASED 800708 BED MATERIAL COBBLE SAMPLE: COLOR M-YL-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 01

## REMARKS:

1-38 DOVE MTN. 15' QUAD; SAMPLE COLLECTED OVER 60 METERS STARTING 80 METERS UPSTREAM FROM CONFLUENCE OF SAMPLE 029301;  
 1-51 POORLY SORTED MATERIAL OF APPROXIMATELY 70 PERCENT LIMESTONE ORIGIN AND 20 PERCENT VOLCANIC;  
 1-78 HERMAN MAYHEW & 10539 BERRY KNOLL & DALLAS, TX & 75230;

029301 TYPE STREAM SEDIMENT REPLICATE SAMPLER MEW AIR TEMP(C) + 26.0 WEATHER LT WIND-CLEAR  
 PHASE E MAP NH1309 SITE H271 TIME TAKEN 10/16/02/80 RELIEF LOW VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.756( 29 45'21") LONG 102.883(102 52'58") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 SURFACE GEOL UNIT LKLB RESULTS REQ YES ,RELEASED 800708 BED MATERIAL COBBLE SAMPLE: COLOR M-YL-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 01

## REMARKS:

1-38 DOVE MTN. 15' QUAD; COLLECTED OVER 60 METERS STARTING 40 METERS ABOVE ROAD CROSSING;

1-51 POORLY SORTED MATERIAL OF LIMESTONE AND VOLCANIC ORIGIN. PERCENTAGES-40 PERCENT VOLCANIC, 50 PERCENT LIMESTONE;  
 1-78 HERMAN MAYHEW & 10539 BERRY KNOLL & DALLAS, TX & 75230;

029302 TYPE STREAM SEDIMENT REPLICATE SAMPLER MEW AIR TEMP(C) + 26.0 WEATHER LT WIND-CLEAR  
 PHASE E MAP NH1309 SITE H272 TIME TAKEN 11/16/02/80 RELIEF LOW VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.763 (29 45'46") LONG 102.833 (102 49'58") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 SURFACE GEOL UNIT QD RESULTS REQ YES, RELEASED 800708 BED MATERIAL PEBBLE SAMPLE: COLOR L-PK-BN ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 01

## REMARKS:

1-38 DOVE MTN. 15' QUAD; COLLECTED OVER 60 METERS BEGINNING 20 METERS UPSTREAM FROM ROAD;  
 1-51 LARGE DETRITAL FRACTION. POORLY SORTED. PREDOMINATELY LIMESTONE IN ORIGIN;  
 1-78 HERMAN MAYHEW & 10539 BERRY KNOLL & DALLAS, TX & 75230;

029303 TYPE OTHER REPLICATE SAMPLER MEW AIR TEMP(C) + 26.5 WEATHER  
 PHASE R MAP NH1309 SITE H273 TIME TAKEN 12/16/02/80 RELIEF VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.767 (29 46' 1") LONG 102.839 (102 50'20") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL  
 SURFACE GEOL UNIT LKSP RESULTS REQ YES, RELEASED 800708 BED MATERIAL SAMPLE: COLOR M-YL-BN ODOR NONE

## REMARKS:

1-38 DOVE MTN 15' QUAD; READING TAKEN ON OUTCROP ON EAST SIDE OF ROAD;  
 1-51 LIMESTONE WHICH WEATHERS TO SHARP EDGES. THICK TO THIN BEDS. SOME WAVY BEDDING;  
 1-78 HERMAN MAYHEW & 10539 BERRY KNOLL & DALLAS, TEXAS & 75230;

029304 TYPE STREAM SEDIMENT REPLICATE SAMPLER MEW AIR TEMP(C) + 27.0 WEATHER -CLEAR  
 PHASE E MAP NH1309 SITE H274 TIME TAKEN 13/16/02/80 RELIEF GENTLE VEGETATION BRUSH-DENSE  
 LOCATION: LAT 29.767 (29 46' 1") LONG 102.872 (102 52'19") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 SURFACE GEOL UNIT LKSP RESULTS REQ YES, RELEASED 800708 BED MATERIAL PEBBLE SAMPLE: COLOR M-YL-BN ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 01

## REMARKS:

1-38 DOVE MTN. 15' QUAD; COLLECTED OVER 60 METERS STARTING 10 METERS ABOVE END OF ROAD;  
 1-51 EVIDENCE OF BOTH EXTRUSIVE VOLCANICS. LIMESTONE MATERIAL DOMINATES POORLY SORTED SAMPLE;  
 1-78 HERMAN MAYHEW & 10539 BERRY KNOLL & DALLAS, TX & 75230;

029307 TYPE STREAM SEDIMENT REPLICATE SAMPLER DJT AIR TEMP(C) + 17.0 WEATHER LT WIND-OVERCAST  
 PHASE E MAP NH1309 SITE H277 TIME TAKEN 10/07/02/80 RELIEF GENTLE VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.648 (29 38'52") LONG 103.055 (103 3'18") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 SURFACE GEOL UNIT QD RESULTS REQ NO, RELEASED 800708 BED MATERIAL SAND SAMPLE: COLOR M-GY-YL ODOR NONE

## SEDIMENT INFORMATION:



SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL (%) 01

REMARKS:

J-38 BONE SPRING N.E. 7.5 MIN. TOPO., COLLECTED IN MAIN CHANNEL OF BRAIDED WASH GOING UPSTREAM 50M STARTING IN BEND IN STREAM:  
1-51 MED. TO COARSE SAND AND SILT COMPOSED OF LIMESTONE AND VOLC. ROCK FRAG.:

029308 TYPE SOIL REPLICATE SAMPLER DJT AIR TEMP(C) + 17.0 WEATHER LT WIND-OVERCST  
PHASE R MAP NH1309 SITE H278 TIME TAKEN 11/07/02/80 RELIEF GENTLE VEGETATION BRUSH-MODERATE  
LOCATION: LAT 29.650 (29 39' 0") LONG 103.056 (103 3' 21") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
WATER: WIDTH(M) DEPTH(M) LEVEL  
SURFACE GEOL UNIT QD RESULTS REQ NO, RELEASED 800708 BED MATERIAL SAMPLE: COLOR M-YL-BN ODOR NONE

REMARKS:

J-38 BONE SPRING NE 7.5 MIN. TOPO., MEAS. ON RIDGE CREST COVERED WITH COBBLES OF L. S. AND BASALT:

029309 TYPE SOIL REPLICATE SAMPLER DJT AIR TEMP(C) + 18.0 WEATHER LT WIND-OVERCST  
PHASE R MAP NH1309 SITE H279 TIME TAKEN 12/07/02/80 RELIEF GENTLE VEGETATION BRUSH-MODERATE  
LOCATION: LAT 29.643 (29 38' 34") LONG 103.057 (103 3' 25") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
WATER: WIDTH(M) DEPTH(M) LEVEL  
SURFACE GEOL UNIT QD RESULTS REQ NO, RELEASED 800708 BED MATERIAL SAMPLE: COLOR M-YL-BN ODOR NONE

REMARKS:

J-38 BONE SPRING 7.5 MIN. TOPO., MEAS. ON RIDGE CREST COVERED WITH LIMESTONE AND BASALTIC COBBLES:

029310 TYPE STREAM SEDIMENT REPLICATE SAMPLER DJT AIR TEMP(C) + 19.0 WEATHER LT WIND-OVERCST  
PHASE E MAP NH1309 SITE H280 TIME TAKEN 13/07/02/80 RELIEF GENTLE VEGETATION BRUSH-MODERATE  
LOCATION: LAT 29.654 (29 39' 14") LONG 103.034 (103 2' 2") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
SURFACE GEOL UNIT QD RESULTS REQ YES, RELEASED 800708 BED MATERIAL SAND SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL (%) 01

REMARKS:

J-38 BONE SPRING 7.5 MIN. TOPO., COLLECTED IN MAIN CHANNEL OF BRAIDED WASH GOING UP STREAM 60M STARTING AT FENCELINE:  
J-51 COARSE SAND, SILT, AND SOIL COMPOSED OF L. S. AND VOLC. ROCK FRAG. :  
1-78 BOB WEST & REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901:

029311 TYPE OTHER REPLICATE SAMPLER DJT AIR TEMP(C) + 18.0 WEATHER CALM-OVERCST  
PHASE R MAP NH1309 SITE H281 TIME TAKEN 13/07/02/80 RELIEF GENTLE VEGETATION BRUSH-MODERATE  
LOCATION: LAT 29.653 (29 39' 10") LONG 103.035 (103 2' 6") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
WATER: WIDTH(M) DEPTH(M) LEVEL  
SURFACE GEOL UNIT QD RESULTS REQ NO, RELEASED 800708 BED MATERIAL SAMPLE: COLOR M-YL-BN ODOR NONE

REMARKS:

J-38 BONE SPRINGS N.E. 7.5 MIN. TOPO. MEAS. ON BOLSON COVER COMPOSED OF COBBLES OF L. S. AND BASALT:

029312 TYPE STREAM SEDIMENT REPLICATE SAMPLER DJT AIR TEMP(C) + 18.0 WEATHER LT WIND-OVERCAST  
 PHASE E MAP NH1309 SITE H282 TIME TAKEN 14/07/02/80 RELIEF GENTLE VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.651( 29 39' 3") LONG 103.023(103 1'22") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT QD RESULTS REQ NO ,RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL SAND SAMPLE: COLOR M-YL-BN ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 18 ORGANIC MATERIAL(%) 01

## REMARKS:

1-38 BONE SPRING N.E. 7.5 MIN. TOPO., COLLECTED FROM MAIN CHANNEL IN BRAIDED WASH GOING UPSTREAM 50M STARTING 400M UPSTREAM OF ROAD;  
 1-51 MED. TO COARSE GR. SAND, SILT, AND SOIL COMPOSED OF LIMESTONE AND BASALT FRAGMENTS, LKSE CONTRIBUTOR;

029313 TYPE STREAM SEDIMENT REPLICATE SAMPLER DJT AIR TEMP(C) + 16.0 WEATHER CALM-OVERCAST  
 PHASE E MAP NH1309 SITE H283 TIME TAKEN 15/07/02/80 RELIEF GENTLE VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.659( 29 39' 32") LONG 103.071(103 4'15") CONTAMINANTS OTHER STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT QD RESULTS REQ NO ,RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL PEBBLE SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 01

## REMARKS:

1-38 BONE SPRING NE 7.5 MIN. TOPO., COLLECTED IN CENTER GOING UPSTREAM 60M STARTING 30M UPSTREAM OF ROAD;  
 1-51 PREDOMINANTLY SILT WITH LESSER F. TO MED-GR. SAND;  
 1-60 GRAVEL PITS UPSTREAM;

029314 TYPE STREAM SEDIMENT REPLICATE SAMPLER DJT AIR TEMP(C) + 19.0 WEATHER CALM-OVERCAST  
 PHASE E MAP NH1309 SITE H284 TIME TAKEN 16/07/02/80 RELIEF GENTLE VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.649( 29 38' 56") LONG 103.064(103 3'50") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT QD RESULTS REQ NO ,RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL SAND SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 18 ORGANIC MATERIAL(%) 01

## REMARKS:

1-38 BONE SPRINGS N.E. 7.5 MIN TOPO., COLLECTED IN CENTER OF BRAIDED DRAINAGE GOING UPSTREAM 50M STARTING 300M UPSTREAM OF ROAD;  
 1-51 SAND AND SILT COMPOSED OF LIMESTONE AND BASALT FRAGMENTS;

029315 TYPE WELL WATER REPLICATE SAMPLER DJT AIR TEMP(C) + 8.0 WEATHER LT WIND-OVERCAST  
 PHASE E MAP NH1309 SITE H285 TIME TAKEN 09/08/02/80 RELIEF LOW VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.653( 29 39' 10") LONG 103.081(103 4'51") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QD RESULTS REQ YES ,RELEASED 800708 SAMPLE: COLOR L-WH-YL ODOR NONE

GENERAL WATER INFORMATION:  
 TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 710 DISSOLVED OXYGEN(PPM) 9.2  
 WATER TEMP(C) + 9.4 VISIBILITY(M) 0.50 PH 6.4 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 292 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 288



APPEARANCE MURKY DISCHARGE(L/M) PROBABLE SOURCE GEOL. INFERENCE  
 PRODUCING HORIZON QD CONFIDENCE

## WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION OTHER CASING NONE PIPE COMPOSITION OTHER  
 METERS FROM HEAD 0 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY RARE  
 DEPTH TO PROD HORIZON(M) 7 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH(M) 7 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

## REMARKS:

1-38 BONE SPRING NE 7.5 MIN. TOPO., COLLECTED FROM 20 FOOT DEEP PIT NEXT TO WIND MILL STRUCTURE, INTERSECTS WATER TABLE;  
 1-78 J. B. LOVE & BOX 387 & MARATHON, TX 79842;  
 3-19 OPEN PIT;  
 3-21 NO PIPING;

029316 TYPE STREAM SEDIMENT REPLICATE SAMPLER DJT AIR TEMP(C) + 10.0 WEATHER LT WIND-OVERCST  
 PHASE E MAP NH1309 SITE H286 TIME TAKEN 12/08/02/80 RELIEF LOW VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.687( 29 41' 13") LONG 103.041(103 2'27") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT QD RESULTS REQ YES RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL SILT SAMPLE: COLOR L-YL-BN QDQR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 15 ORGANIC MATERIAL(%) 02

## REMARKS:

1-38 BONE SPRING N.E. 7.5 MIN TOPO., COLLECTED IN CENTER OF POORLY DEFINED STREAM CHANNEL GOING UPSTREAM 40M STARTING 15M  
 UPSTREAM OF FENCE ROAD;  
 1-51 SILT AND CLAY DERIVED FROM BOLSON MATERIAL;  
 1-60 SEDIMENT FORMING SOIL;  
 1-78 J. B. LOVE & BOX 387 & MARATHON TX., 79842;

029317 TYPE STREAM SEDIMENT REPLICATE SAMPLER DJT AIR TEMP(C) + 10.0 WEATHER -OVERCST  
 PHASE E MAP NH1309 SITE H287 TIME TAKEN 13/08/02/80 RELIEF LOW VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.684( 29 41' 2") LONG 103.041(103 2'27") CONTAMINANTS OTHER STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT QD RESULTS REQ YES RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL SILT SAMPLE: COLOR L-YL-BN QDQR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 12 ORGANIC MATERIAL(%) 02

## REMARKS:

1-38 BONE SPRINGS N.E. 7.5 MIN. TOPO., COLLECTED IN CENTER OF WASH DRAINAGE GOING UPSTREAM 45M STARTING 20M UPSTREAM OF FENCE  
 ROAD;  
 1-51 SILT AND CLAY DERIVED FROM BOLSON MATERIAL;  
 1-60 SEDIMENT FORMING SOIL;  
 1-78 J. B. LOVE & BOX 387 & MARATHON, TX. 79842;

029318 TYPE STREAM SEDIMENT REPLICATE SAMPLER DJT AIR TEMP(C) + 9.0 WEATHER LT WIND-OVERCST  
 PHASE E MAP NH1309 SITE H288 TIME TAKEN 14/08/02/80 RELIEF LOW VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.663( 29 39' 46") LONG 103.059(103 3'32") CONTAMINANTS OTHER STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY

SURFACE GEOL UNIT QD RESULTS REQ YES ,RELEASED 800708 BED MATERIAL SILT SAMPLE: COLOR L-YL-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 12 ORGANIC MATERIAL(%) 02

## REMARKS:

1-38 BONE SPRING N.E. 7.5 MIN. TOPO., COLLECTED IN CENTER OF POORLY-DEFINED CHANNEL GOING UPSTREAM 40M STARTING 20M UPSTREAM OF STOCK POND;

1-51 SILT AND CLAY DERIVED FROM BOLSON MATERIAL;

1-60 AREA HAS BEEN PLOWED;

1-78 J. B. LOUE & BOX 387 & MARATHON, TX. 79842;

029319 TYPE WELL WATER REPLICATE SAMPLER DJT AIR TEMP(C) + 14.5 WEATHER LT WIND-OVERCST  
 PHASE E MAP NH1309 SITE H289 TIME TAKEN 11/11/02/80 RELIEF MODERATE VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.625(29 37'30") LONG 103.053(103 3'10") CONTAMINANTS OTHER  
 SURFACE GEOL UNIT QD RESULTS REQ YES ,RELEASED 800708 SAMPLE: COLOR -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 1860 DISSOLVED OXYGEN(PPM) 3.0  
 WATER TEMP(C) + 20.2 VISIBILITY(M) CLEAR PH 5.6 LO-ION PAPER  
 TOTAL ALKALINITY(PPM) 244 P ALKALINITY(PPM) 75 M ALKALINITY(PPM) 234  
 APPEARANCE CLEAR DISCHARGE(L/M) SOURCE  
 PRODUCING HORIZON UNKN CONFIDENCE

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION GALVANIZED  
 METERS FROM HEAD 2 WITH RESPECT TO PRESSURE TANK NONE USE HOUSE/STOCK PUMPING FREQUENCY INFREQUENT  
 DEPTH TO PROD HORIZON(M) CONFIDENCE OF PRODUCING DEPTH SOURCE OF PRODUCING INFORMATION  
 WELL DEPTH(M) CONFIDENCE OF WELL DEPTH SOURCE OF DEPTH INFORMATION

## REMARKS:

1-38 BONE SPRING NE 7.5' QUAD SAMPLED WELL FROM FAUCET ON NE SIDE OF OLD WOOD SHED, WELL LOCATED E. OF SHED;

1-60 PIPES ARE OLD AND RUSTY AND GREASEY;

1-78 BOB WEST & REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029320 TYPE STREAM SEDIMENT REPLICATE SAMPLER DJT AIR TEMP(C) + 16.0 WEATHER LT WIND-PJ CLDY  
 PHASE E MAP NH1309 SITE H290 TIME TAKEN 13/11/02/80 RELIEF LOW VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.639(29 38'20") LONG 103.005(103 0'18") CONTAMINANTS OTHER STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 SURFACE GEOL UNIT QD RESULTS REQ YES ,RELEASED 800708 BED MATERIAL SILT SAMPLE: COLOR M-YL-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 12 ORGANIC MATERIAL(%) 02

## REMARKS:

1-38 BONE SPRING N.E. 7.5 MIN. TOPO., COLLECTED IN CENTER GOING UPSTREAM 35M STARTING 20M UPSTREAM OF ROAD;

1-51 SILT, CLAY DERIVED FROM BOLSON;

1-60 SEDIMENT FORMING SOIL;

1-78 BOB WEST & REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029321 TYPE STREAM SEDIMENT REPLICATE SAMPLER DJT AIR TEMP(C) + 16.5 WEATHER LT WIND-OVERCST



STILLWELL

10-31-80

PAGE 046

PHASE E MAP NH1309 SITE H291 TIME TAKEN 15/11/02/80  
LOCATION: LAT 29.639 (29 38'20") LONG 103.076 (103 4'33")

RELIEF MODERATE  
CONTAMINANTS NONE

VEGETATION BRUSH-SPARSE  
STREAM FLOW (M/SEC)

SURFACE GEOL UNIT QD RESULTS REQ NO, RELEASED 800708

WATER: WIDTH (M)  
BED MATERIAL SILT

DEPTH (M) LEVEL DRY  
SAMPLE: COLOR L-YL-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL (%) 02

REMARKS:

J-38 BONE SPRING NE 7.5' QUAD COLLECTED SEDIMENT OVER A 60M. INTERVAL STARTING 56M. UPSTREAM OF ROAD AND GOING UPSTREAM IN MID-CHANNEL;  
J-51 MED. GR. SAND AND SILT DERIVED FROM BOLSON MATERIALS:

029322 TYPE STREAM SEDIMENT REPLICATE SAMPLER DJT  
PHASE E MAP NH1309 SITE H292 TIME TAKEN 14/11/02/80  
LOCATION: LAT 29.653 (29 39'10") LONG 103.102 (103 6'7")

AIR TEMP (C) + 19.0  
RELIEF GENTLE  
CONTAMINANTS OTHER

WEATHER LT WIND-OVERCAST  
VEGETATION BRUSH-MODERATE  
STREAM FLOW (M/SEC)

SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708

WATER: WIDTH (M)  
BED MATERIAL SAND

DEPTH (M) LEVEL DRY  
SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 18 ORGANIC MATERIAL (%) 02

REMARKS:

I-38 BONE SPRING N.E. 7.5 MIN. TOPO., COLLECTED IN CENTER GOING UPSTREAM 60M STARTING 20M UPSTREAM OF CONFLUENCE;  
I-51 SAND, SILT AND CLAY COMPOSED OF BOLSON MATERIAL AND L. S. FRAG;  
J-60 BANK SLUMP;  
I-78 J. B. LOVE & BOX 387 & MARATHON, TX 79842;

029323 TYPE STREAM SEDIMENT REPLICATE SAMPLER DJT  
PHASE E MAP NH1309 SITE H293 TIME TAKEN 15/11/02/80  
LOCATION: LAT 29.653 (29 39'10") LONG 103.103 (103 6'10")

AIR TEMP (C) + 19.0  
RELIEF GENTLE  
CONTAMINANTS OTHER

WEATHER LT WIND-OVERCAST  
VEGETATION BRUSH-MODERATE  
STREAM FLOW (M/SEC)

SURFACE GEOL UNIT QD RESULTS REQ YES, RELEASED 800708

WATER: WIDTH (M)  
BED MATERIAL SILT

DEPTH (M) LEVEL DRY  
SAMPLE: COLOR L-YL-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 12 ORGANIC MATERIAL (%) 02

REMARKS:

I-38 BONE SPRING N.E. 7.5 MIN. TOPO., COLLECTED IN CENTER OF POORLY DEFINED DRAINAGE GOING UPSTREAM 40M STARTING 20M UPSTREAM OF CONFLUENCE;  
I-51 CLAY, SILT AND SAND DERIVED FROM BOLSON MATERIAL AND LKSE;  
J-60 BANK SLUMP AND SEDIMENT FORMING SOIL;  
I-78 J. B. LOVE & BOX 387 & MARATHON, TX 79842;

029324 TYPE STREAM SEDIMENT REPLICATE SAMPLER DJT  
PHASE E MAP NH1309 SITE H294 TIME TAKEN 10/12/02/80  
LOCATION: LAT 29.716 (29 42'57") LONG 103.026 (103 1'33")

AIR TEMP (C) + 11.0  
RELIEF LOW  
CONTAMINANTS NONE

WEATHER LT WIND-PT CLDY  
VEGETATION BRUSH-MODERATE  
STREAM FLOW (M/SEC)

SURFACE GEOL UNIT QD RESULTS REQ YES, RELEASED 800708

WATER: WIDTH (M)  
BED MATERIAL SILT

DEPTH (M) LEVEL DRY  
SAMPLE: COLOR L-YL-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 16 ORGANIC MATERIAL (%) 02

## REMARKS:

1-38 BONE SPRINGS N.E. 7.5 MIN. TOPO., COLLECTED IN CENTER GOING UPSTREAM 50M STARTING 40M UPSTREAM OF POND;  
 1-51 SILT AND CLAY DERIVED FROM BOLSON;  
 1-60 NO WELL-DEFINED CHANNEL, SEDIMENT FORMING SOIL;  
 1-78 D. W. COLLINS & BOX 363 & MARATHON, TX. 79842;

029325 TYPE STREAM SEDIMENT REPLICATE SAMPLER DJT AIR TEMP(C) + 12.0 WEATHER LT WIND-OVERCAST  
 PHASE E MAP NH1309 SITE H295 TIME TAKEN 11/12/02/80 RELIEF LOW VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.684 (29 41' 2") LONG 103.019 (103 1' 8") CONTAMINANTS OTHER STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 SURFACE GEOL UNIT QD RESULTS REQ YES ,RELEASED 800708 BED MATERIAL SILT SAMPLE: COLOR M-GY-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 12 ORGANIC MATERIAL (%) 01

## REMARKS:

1-38 BONE SPRING N.E. 7.5 MIN. TOPO., COLLECTED IN RILLED WASH GOING UPSTREAM 70M STARTING 20M UPSTREAM OF FENCE;  
 1-51 SILT AND CLAY DERIVED FROM BOLSON MATERIAL;  
 1-60 SEDIMENT FORMING SOIL;  
 1-78 D. W. COLLINS & BOX 363 & MARATHON, TX. 79842;

029326 TYPE STREAM SEDIMENT REPLICATE SAMPLER DJT AIR TEMP(C) + 13.5 WEATHER LT WIND-PT CLDY  
 PHASE E MAP NH1309 SITE H296 TIME TAKEN 12/12/02/80 RELIEF LOW VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.684 (29 41' 2") LONG 103.030 (103 1' 48") CONTAMINANTS OTHER STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 SURFACE GEOL UNIT QD RESULTS REQ NO ,RELEASED 800708 BED MATERIAL SILT SAMPLE: COLOR M-YL-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 18 ORGANIC MATERIAL (%) 01

## REMARKS:

1-38 BONE SPRING N.E. 7.5 MIN. TOPO., COLLECTED IN CENTER GOING UPSTREAM 60M STARTING 20M UPSTREAM OF FENCE;  
 1-51 SILT AND CLAY DERIVED FROM BOLSON MATERIAL;  
 1-60 POORLY-DEFINED WASH, SEDIMENT FORMING SOIL;  
 1-78 D. W. COLLINS & BOX 363 & MARATHON, TX. 79842;

029327 TYPE STREAM SEDIMENT REPLICATE SAMPLER DJT AIR TEMP(C) + 15.0 WEATHER LT WIND-PT CLDY  
 PHASE E MAP NH1309 SITE H297 TIME TAKEN 13/12/02/80 RELIEF GENTLE VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.684 (29 41' 2") LONG 103.006 (103 0' 21") CONTAMINANTS OTHER STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 SURFACE GEOL UNIT QD RESULTS REQ YES ,RELEASED 800708 BED MATERIAL SILT SAMPLE: COLOR M-YL-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 12 ORGANIC MATERIAL (%) 01

## REMARKS:

1-38 BONE SPRING N.E. 7.5 MIN. TOPO., COLLECTED IN CENTER OF POORLY DEFINED CHANNEL GOING UPSTREAM 50M STARTING 20M UPSTREAM OF FENCE;  
 1-51 SILT AND CLAY DERIVED FROM BOLSON;



1-60 SEDIMENT FORMING SOIL;  
1-78 D. W. COLLINS & BOX 363 & MARATHON, TX. 79842;

029328 TYPE STREAM SEDIMENT REPLICATE SAMPLER DJT AIR TEMP(C) + 16.0 WEATHER LT WIND-PT CLDY  
PHASE E MAP NH1309 SITE H298 TIME TAKEN 14/12/02/80 RELIEF GENTLE VEGETATION BRUSH-MODERATE  
LOCATION: LAT 29.701 (29 42' 3") LONG 103.023 (103 1' 22") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
SURFACE GEOL UNIT QD RESULTS REQ YES ,RELEASED 800708 BED MATERIAL SILT SAMPLE: COLOR L-GY-BN ODOR NONE  
SEDIMENT INFORMATION:  
SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL (%)

## REMARKS:

J-38 BONE SPRING N.E. 7 1/2' QUAD, SAMPLE COLLECTED IN CENTER OF POORLY DEFINED STREAM CHANNEL GOING UPSTREAM 65M STARTING AT POINT DESIGNATED ON MAP;  
J-51 SAND, SILT, AND CLAY DERIVED FROM BOLSON;  
1-78 D. W. COLLINS & BOX 363 & MARATHON, TX. 79842;

029329 TYPE STREAM SEDIMENT REPLICATE SAMPLER DJT AIR TEMP(C) + 19.0 WEATHER CALM-PT CLDY  
PHASE E MAP NH1309 SITE H299 TIME TAKEN 14/12/02/80 RELIEF LOW VEGETATION BRUSH-MODERATE  
LOCATION: LAT 29.713 (29 42' 46") LONG 103.051 (103 3' 3") CONTAMINANTS OTHER STREAM FLOW(M/SEC)  
WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
SURFACE GEOL UNIT QD RESULTS REQ YES ,RELEASED 800708 BED MATERIAL SILT SAMPLE: COLOR M-YL-BN ODOR NONE  
SEDIMENT INFORMATION:  
SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 12 ORGANIC MATERIAL (%) 01

## REMARKS:

1-38 BONE SPRING N.E. 7.5 MIN. TOPO., COLLECTED IN POORLY-DEFINED DRAINAGE GOING UPSTREAM 45M STARTING 20M UPSTREAM OF ROAD;  
J-51 SILT AND CLAY DERIVED FROM BOLSON;  
1-60 SEDIMENT FORMING SOIL;  
1-78 D. W. COLLINS & BOX 363 & MARATHON, TX. 79842;

029330 TYPE STREAM SEDIMENT REPLICATE SAMPLER DJT AIR TEMP(C) + 20.0 WEATHER CALM-PT CLDY  
PHASE E MAP NH1309 SITE H300 TIME TAKEN 15/12/02/80 RELIEF LOW VEGETATION BRUSH-MODERATE  
LOCATION: LAT 29.716 (29 42' 57") LONG 103.055 (103 3' 18") CONTAMINANTS OTHER STREAM FLOW(M/SEC)  
WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
SURFACE GEOL UNIT QD RESULTS REQ NO ,RELEASED 800708 BED MATERIAL SILT SAMPLE: COLOR L-YL-BN ODOR NONE  
SEDIMENT INFORMATION:  
SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 15 ORGANIC MATERIAL (%) 02

## REMARKS:

1-38 BONE SPRING N.E. 7.5 MIN. TOPO., COLLECTED IN POORLY-DEFINED DRAINAGE GOING UPSTREAM 40M STARTING 20M UPSTREAM OF ROAD;  
1-51 SILT AND CLAY DERIVED FROM BOLSON;  
J-60 SEDIMENT FORMING SOIL;  
1-78 D. W. COLLINS & BOX 363 & MARATHON, TX. 79842;

029338 TYPE STREAM SEDIMENT REPLICATE SAMPLER DJT AIR TEMP(C) + 20.0 WEATHER CALM-CLEAR

STILLWELL

10-31-80

PAGE 049

PHASE E MAP NH1309 SITE H308 TIME TAKEN 12/04/02/80 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
LOCATION: LAT 29.466 (29 27'57") LONG 102.835 (102 50' 6") CONTAMINANTS NONE STREAM FLOW (M/SEC)

SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 WATER: WIDTH (M) DEPTH (M) LEVEL DRY  
BED MATERIAL PEBBLE SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:  
SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL (%) 01

REMARKS:

1-38 STILLWELL CROSSING 7.5 MIN. TOPO., COLLECTED IN CENTER GOING UPSTREAM 60M STARTING 20M DOWNSTREAM OF POND:  
1-51 COARSE-TO MEDIUM-GR. SAND AND SILT COMPOSED OF LIMESTONE AND TO A LESSER EXTENT VOLCANIC FRAGMENTS:  
1-78 BOB WEST & REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029339 TYPE STREAM SEDIMENT REPLICATE SAMPLER DJT AIR TEMP (C) + 21.0 WEATHER CALM-CLEAR  
PHASE E MAP NH1309 SITE H309 TIME TAKEN 13/04/02/80 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
LOCATION: LAT 29.476 (29 28'33") LONG 102.849 (102 50'56") CONTAMINANTS NONE STREAM FLOW (M/SEC)  
SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 WATER: WIDTH (M) DEPTH (M) LEVEL DRY  
BED MATERIAL SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:  
SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 15 ORGANIC MATERIAL (%) 02

REMARKS:

1-38 STILLWELL CROSSING 7.5 MIN. TOPO., COLLECTED IN CENTER OF VEGETATED CHANNEL GOING UPSTREAM 50M STARTING 45M UPSTREAM OF  
CONFLUENCE:  
1-51 MED. TO COARSE-GR. SAND AND SILT COMPOSED OF LIMESTONE AND MINOR VOLCANIC ROCK FRAGMENTS, LKSE CONTRIBUTED:  
1-78 BOB WEST & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029340 TYPE STREAM SEDIMENT REPLICATE SAMPLER DJT AIR TEMP (C) + 22.0 WEATHER CALM-CLEAR  
PHASE E MAP NH1309 SITE H310 TIME TAKEN 14/04/02/80 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
LOCATION: LAT 29.486 (29 29' 9") LONG 102.861 (102 51'39") CONTAMINANTS NONE STREAM FLOW (M/SEC)  
SURFACE GEOL UNIT LKSE RESULTS REQ NO, RELEASED 800708 WATER: WIDTH (M) DEPTH (M) LEVEL DRY  
BED MATERIAL SAND SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:  
SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 17 ORGANIC MATERIAL (%) 02

REMARKS:

1-38 STILLWELL CROSSING 7.5 MIN. TOPO., COLLECTED IN CENTER OF VEGETATED CHANNEL GOING UPSTREAM 45M STARTING 50M UPSTREAM OF  
ROAD:  
1-51 MED-COARSE GRAINED SAND AND SILT COMPOSED PREDOMINANTLY OF LIMESTONE FRAGMENTS, LKSE CONTRIBUTED:

029341 TYPE ROCK REPLICATE SAMPLER DJT AIR TEMP (C) + 22.0 WEATHER CALM-CLEAR  
PHASE R MAP NH1309 SITE H311 TIME TAKEN 14/04/02/80 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
LOCATION: LAT 29.481 (29 28'51") LONG 102.855 (102 51'18") CONTAMINANTS NONE STREAM FLOW (M/SEC)  
SURFACE GEOL UNIT LKSE RESULTS REQ NO, RELEASED 800708 WATER: WIDTH (M) DEPTH (M) LEVEL  
BED MATERIAL SAMPLE: COLOR M-YL-BN ODOR NONE

REMARKS:

1-38 STILLWELL CROSSING 7.5 MIN. TOPO., MEAS. ON MASSIVE LIMESTONE BEDS CONTAINING NUMEROUS CALCITE UUGS AND FRACTURE ZONES  
COATED WITH LIMONITE:



029342 TYPE STREAM SEDIMENT REPLICATE SAMPLER DJT AIR TEMP(C) + 24.0 WEATHER CALM-CLEAR  
 PHASE E MAP NH1309 SITE H312 TIME TAKEN 15/04/02/80 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.495( 29 29'42") LONG 102.869(102 52' 8") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT LKSE RESULTS REQ NO ,RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL SAND SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 18 ORGANIC MATERIAL(%) 01

## REMARKS:

1-38 STILLWELL CROSSING 7.5 MIN. TOPO., COLLECTED IN CENTER GOING UPSTREAM 60M STARTING 45M UPSTREAM OF CONFLUENCE;  
 1-51 MED. TO COARSE-GR. SAND AND SILT COMPOSED OF LIMESTONE AND VOLC. ROCK FRAG., DEFORMED AND BAKED LIMESTONE OUTCROPS OVER  
 INTERVAL;

029344 TYPE STREAM SEDIMENT REPLICATE SAMPLER DJT AIR TEMP(C) + 19.0 WEATHER CALM-CLEAR  
 PHASE E MAP NH1309 SITE H313 TIME TAKEN 10/05/02/80 RELIEF MODERATE VEGETATION BRUSH-DENSE  
 LOCATION: LAT 29.482( 29 28'55") LONG 102.815(102 48'54") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT LKSE RESULTS REQ NO ,RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL SAND SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 01

## REMARKS:

1-38 STILLWATER CROSSING 7.5 MIN. TOPO., COLLECTED IN CENTER GOING UPSTREAM 45M STARTING IN BEND IN STREAM;  
 1-51 MED. TO COARSE-GR. SAND AND SILT COMPOSED OF LIMESTONE FRAGMENTS;

029345 TYPE STREAM SEDIMENT REPLICATE SAMPLER DJT AIR TEMP(C) + 19.0 WEATHER -CLEAR  
 PHASE E MAP NH1309 SITE H314 TIME TAKEN 13/05/02/80 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.443( 29 26'34") LONG 102.867(102 52' 1") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT QD RESULTS REQ NO ,RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL SAND SAMPLE: COLOR L-YL-GY ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 18 ORGANIC MATERIAL(%) 01

## REMARKS:

1-38 STILLWELL CROSSING 7.5 MIN. TOPO. COLLECTED IN CENTER OF BRAIDED CHANNEL GOING UPSTREAM 60M STARTING 30M UPSTREAM OF  
 CONFLUENCE;  
 1-51 MED. TO COARSE SAND AND SILT COMPOSED OF LIMESTONE FRAG.;

029346 TYPE STREAM SEDIMENT REPLICATE SAMPLER DJT AIR TEMP(C) + 20.0 WEATHER LT WIND-CLEAR  
 PHASE E MAP NH1309 SITE H315 TIME TAKEN 14/05/02/80 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.432( 29 25'55") LONG 102.857(102 51'25") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT QD RESULTS REQ NO ,RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL SAND SAMPLE: COLOR L-GY-YL ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 01

## REMARKS:

1-38 STILLWELL CROSSING 7.5 MIN. TOPO., COLLECTED IN CENTER GOING UPSTREAM 50M STARTING 45M UPSTREAM OF CONFLUENCE;  
1-51 MED-COARSE SAND AND SILT COMPOSED OF LIMESTONE FRAG, CONTRIB BY LKSE:

029347 TYPE STREAM SEDIMENT REPLICATE SAMPLER DJT AIR TEMP(C) + 20.0 WEATHER LT WIND-CLEAR  
PHASE E MAP NH1309 SITE H316 TIME TAKEN 15/05/02/80 RELIEF GENTLE VEGETATION BRUSH-MODERATE  
LOCATION: LAT 29.442 (29 26'31") LONG 102.869 (102 52' 8") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
SURFACE GEOL UNIT QD RESULTS REQ NO , RELEASED 800708 BED MATERIAL SAND SAMPLE: COLOR L-GY-BN ODOR NONE  
SEDIMENT INFORMATION:  
SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 15 ORGANIC MATERIAL (%) 01

## REMARKS:

1-38 STILLWELL CROSSING 7.5 MIN. TOPO., COLLECTED IN CENTER OF POORLY-DEFINED WASH OVER 40M INTERVAL STARTING 20M UPSTREAM OF ROAD;  
1-51 MED.-GR SAND, SILT, AND SOIL CONTAINING L. S. FRAG.:

029355 TYPE STREAM SEDIMENT REPLICATE SAMPLER CJS AIR TEMP(C) + 16.0 WEATHER LT WIND-CLEAR  
PHASE E MAP NH1309 SITE H324 TIME TAKEN 12/05/02/80 RELIEF MODERATE VEGETATION BRUSH-SPARSE  
LOCATION: LAT 29.574 (29 34'33") LONG 102.946 (102 56'45") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
SURFACE GEOL UNIT QD RESULTS REQ YES , RELEASED 800708 BED MATERIAL PEBBLE SAMPLE: COLOR L-GY-BN ODOR NONE  
SEDIMENT INFORMATION:  
SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 18 ORGANIC MATERIAL (%)

## REMARKS:

1-38 MARAVILLAS CANYON SW 7 1/2' QUAD., SAMPLE COLLECTED OVER A 65M INTERVAL GOING UPSTREAM STARTING 45M UPSTREAM FROM CONFLUENCE;  
1-51 MOSTLY SAND, SILT, AND CLAY, BUT PEBBLES OF LIMESTONE, AND BASALT ALSO;  
1-78 BOB WEST & REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S CHADBOURNE & SAN ANGELO, TX 76901;

029356 TYPE STREAM SEDIMENT REPLICATE SAMPLER CJS AIR TEMP(C) + 16.0 WEATHER LT WIND-CLEAR  
PHASE E MAP NH1309 SITE H325 TIME TAKEN 12/05/02/80 RELIEF MODERATE VEGETATION BRUSH-SPARSE  
LOCATION: LAT 29.574 (29 34'26") LONG 102.942 (102 56'31") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
SURFACE GEOL UNIT UKSE RESULTS REQ YES , RELEASED 800708 BED MATERIAL PEBBLE SAMPLE: COLOR L-YL-BN ODOR NONE  
SEDIMENT INFORMATION:  
SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL (%)

## REMARKS:

1-38 MARAVILLAS CANYON SW 7 1/2' QUAD., SAMPLE COLLECTED OVER A 60M INTERVAL GOING UPSTREAM STARTING 20M UPSTREAM FROM ROAD;  
1-51 SILT, CLAY AND SOME LIMESTONE ROCK FRAGMENTS;  
1-78 BOB WEST & REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S CHADBOURNE & SAN ANGELO, TX 76901;

029357 TYPE STREAM SEDIMENT REPLICATE SAMPLER CJS AIR TEMP(C) + 16.5 WEATHER -CLEAR  
PHASE E MAP NH1309 SITE H326 TIME TAKEN 13/05/02/80 RELIEF MODERATE VEGETATION BRUSH-SPARSE  
LOCATION: LAT 29.574 (29 34'26") LONG 102.938 (102 56'16") CONTAMINANTS NONE STREAM FLOW(M/SEC)



SURFACE GEOL UNIT TEU RESULTS REQ YES ,RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL PEBBLE SAMPLE: COLOR M-YL-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 19 ORGANIC MATERIAL (%)

REMARKS:

1-38 MARAVILLAS CANYON SW 7 1/2' QUAD., SAMPLE COLLECTED OVER A 70M INTERVAL GOING UPSTREAM STARTING 35M UPSTREAM FROM CONFLUENCE:

J-51 COBBLES AND PEBBLES OF BASALT MOSTLY, BUT SOME LIMESTONE FRAGMENTS ALSO;  
 1-78 BOB WEST & REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S CHADBOURNE & SAN ANGELO, TX 76901;

029358 TYPE OTHER REPLICATE SAMPLER CJS AIR TEMP(C) + 17.5 WEATHER -CLEAR  
 PHASE R MAP NH1309 SITE H327 TIME TAKEN 14/05/02/80 RELIEF MODERATE VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.574 (29 34' 26") LONG 102.938 (102 56' 16") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT TEU RESULTS REQ YES ,RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL  
 BED MATERIAL SAMPLE: COLOR D-RD-BN ODOR NONE

REMARKS:

J-38 MARAVILLAS CANYON SW 7 1/2' QUAD., READING TAKEN ON STEEPLY-DIPPING, AMYGDALOIDAL BASALT OUTCROP ON SOUTH BANK OF STREAM CHANNEL:

J-78 BOB WEST & REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S CHADBOURNE & SAN ANGELO, TX 76901;

029359 TYPE STREAM SEDIMENT REPLICATE SAMPLER CJS AIR TEMP(C) + 17.0 WEATHER LT WIND-CLEAR  
 PHASE E MAP NH1309 SITE H328 TIME TAKEN 15/05/02/80 RELIEF HIGH VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.621 (29 37' 15") LONG 102.898 (102 53' 52") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES ,RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL NONE SAMPLE: COLOR L-YL-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL (%) 01

REMARKS:

1-38 MARAVILLAS CANYON SW 7 1/2' QUAD., SAMPLE COLLECTED OVER A 50M INTERVAL GOING UPSTREAM STARTING 50M UPSTREAM FROM CONFLUENCE:

J-51 & J-71 PREDOMINANTLY LIMESTONE BEDROCK WITH LIMESTONE ROCK FRAGMENTS AND FINER MATERIAL ALSO;  
 1-78 BOB WEST & REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S CHADBOURNE & SAN ANGELO, TX 76901;

029360 TYPE OTHER REPLICATE SAMPLER CJS AIR TEMP(C) + 17.0 WEATHER -CLEAR  
 PHASE R MAP NH1309 SITE H329 TIME TAKEN 15/05/02/80 RELIEF HIGH VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.622 (29 37' 19") LONG 102.899 (102 53' 56") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES ,RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL  
 BED MATERIAL SAMPLE: COLOR L-GY-WH ODOR NONE

REMARKS:

J-38 MARAVILLAS CANYON SW 7 1/2' QUAD., READING TAKEN ON BASE OF LIMESTONE CLIFF ON WEST SIDE OF STREAM:  
 1-78 BOB WEST & REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029361 TYPE OTHER REPLICATE SAMPLER CJS AIR TEMP(C) + 18.5 WEATHER

PHASE R MAP NH1309 SITE H330 TIME TAKEN 12/05/02/80  
 LOCATION: LAT 29.577 (29 34'37") LONG 102.923 (102 55'22")

RELIEF VEGETATION

CONTAMINANTS NONE

STREAM FLOW(M/SEC)

WATER: WIDTH(M)

DEPTH(M)

LEVEL

SURFACE GEOL UNIT UKSE RESULTS REQ YES , RELEASED 800708

BED MATERIAL

SAMPLE: COLOR M-PK-GY ODOR NONE

## REMARKS:

1-38 MARAVILLAS CANYON SW 7 1/2' QUAD., READING TAKEN ON THINLY BEDDED, PURPLISH GRAY LIMESTONE AT CONTACT OF LIMESTONE AND BROWN BASALT BELOW LIMESTONE;

1-78 BOB WEST & REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S CHADBOURNE & SAN ANGELO, TX. 76901;

029362 TYPE STREAM SEDIMENT REPLICATE SAMPLER CJS

AIR TEMP(C) + 18.0

WEATHER

PHASE E MAP NH1309 SITE H331 TIME TAKEN 10/06/02/80

RELIEF HIGH

VEGETATION BRUSH-SPARSE

LOCATION: LAT 29.584 (29 35' 2") LONG 102.991 (102 59'27")

CONTAMINANTS NONE

STREAM FLOW(M/SEC)

WATER: WIDTH(M)

DEPTH(M)

LEVEL DRY

SURFACE GEOL UNIT LKSE RESULTS REQ YES , RELEASED 800708

BED MATERIAL PEBBLE

SAMPLE: COLOR L-GY-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY

SAMPLE TREATMENT NONE

NUMBER OF GRABS 20

ORGANIC MATERIAL (%)

## REMARKS:

1-38 MARAVILLAS CANYON SW 7 1/2' QUAD., SAMPLE COLLECTED OVER A 60M INTERVAL GOING UPSTREAM STARTING 30M UPSTREAM FROM ROAD;

1-51 LIMESTONE FRAGMENTS AND FINER MATERIAL;

1-78 BOB WEST & REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S CHADBOURNE & SAN ANGELO, TX 76901;

029363 TYPE STREAM SEDIMENT REPLICATE SAMPLER CJS

AIR TEMP(C) + 16.0

WEATHER LT WIND-OVERCAST

PHASE E MAP NH1309 SITE H332 TIME TAKEN 10/07/02/80

RELIEF HIGH

VEGETATION BRUSH-SPARSE

LOCATION: LAT 29.549 (29 32'56") LONG 102.971 (102 58'15")

CONTAMINANTS NONE

STREAM FLOW(M/SEC)

WATER: WIDTH(M)

DEPTH(M)

LEVEL DRY

SURFACE GEOL UNIT LKSE RESULTS REQ YES , RELEASED 800708

BED MATERIAL PEBBLE

SAMPLE: COLOR L-GY-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY

SAMPLE TREATMENT NONE

NUMBER OF GRABS 20

ORGANIC MATERIAL (%) 01

## REMARKS:

1-38 MARAVILLAS CANYON SW 7 1/2' QUAD., SAMPLE COLLECTED OVER A 60M INTERVAL GOING UPSTREAM STARTING 30M UPSTREAM FROM CONFLUENCE;

1-51 LIMESTONE FRAGMENTS;

1-78 BOB WEST & REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S CHADBOURNE & SAN ANGELO, TX 76901;

029364 TYPE STREAM SEDIMENT REPLICATE SAMPLER CJS

AIR TEMP(C) + 16.5

WEATHER LT WIND-OVERCAST

PHASE E MAP NH1309 SITE H333 TIME TAKEN 12/07/02/80

RELIEF HIGH

VEGETATION BRUSH-SPARSE

LOCATION: LAT 29.524 (29 31'26") LONG 102.964 (102 57'50")

CONTAMINANTS NONE

STREAM FLOW(M/SEC)

WATER: WIDTH(M)

DEPTH(M)

LEVEL DRY

SURFACE GEOL UNIT LKSE RESULTS REQ YES , RELEASED 800708

BED MATERIAL PEBBLE

SAMPLE: COLOR L-BN-GY ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY

SAMPLE TREATMENT NONE

NUMBER OF GRABS 20

ORGANIC MATERIAL (%) 01

## REMARKS:

1-38 MARAVILLAS CANYON SW 7 1/2' QUAD., SAMPLE COLLECTED OVER A 70M INTERVAL GOING UPSTREAM STARTING AT POINT DESIGNATED ON MAP;



## 1-51 LIMESTONE FRAGMENTS;

1-78 BOB WEST &amp; REGIONAL DIRECTOR &amp; TEXAS PARKS AND WILDLIFE &amp; 3407 S CHADBOURNE &amp; SAN ANGELO, TX 76901;

029365 TYPE STREAM SEDIMENT REPLICATE SAMPLER CJS AIR TEMP(C) + 18.0 WEATHER LT WIND-OVERCST  
 PHASE E MAP NH1309 SITE H334 TIME TAKEN 14/07/02/80 RELIEF HIGH VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.568 (29 34' 4") LONG 102.989 (102 59' 20") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 BED MATERIAL PEBBLE SAMPLE: COLOR L-BN-GY ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL (%) 01

## REMARKS:

1-38 MARAVILLAS CANYON SW 7 1/2' QUAD, SAMPLE COLLECTED OVER AN 80M INTERVAL GOING UPSTREAM STARTING 150M DOWNSTREAM FROM CONFLUENCE;

## 1-51 LIMESTONE FRAGMENTS;

1-78 BOB WEST &amp; REGIONAL DIRECTOR &amp; TEXAS PARKS AND WILDLIFE &amp; 3407 S CHADBOURNE &amp; SAN ANGELO, TX 76901;

029366 TYPE OTHER REPLICATE SAMPLER CJS AIR TEMP(C) + 18.0 WEATHER  
 PHASE R MAP NH1309 SITE H335 TIME TAKEN 14/07/02/80 RELIEF VEGETATION  
 LOCATION: LAT 29.557 (29 33' 25") LONG 102.979 (102 58' 44") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL  
 SURFACE GEOL UNIT LKSP RESULTS REQ YES, RELEASED 800708 BED MATERIAL SAMPLE: COLOR L-BN-GY ODOR NONE

## REMARKS:

1-38 MARAVILLAS CANYON SW 7 1/2' QUAD, READING TAKEN ON LIMESTONE BRECCIA ON EAST BANK OF CANYON;

1-78 BOB WEST &amp; REGIONAL DIRECTOR &amp; TEXAS PARKS AND WILDLIFE &amp; 3407 S. CHADBOURNE &amp; SAN ANGELO, TX. 76901;

029367 TYPE OTHER REPLICATE SAMPLER CJS AIR TEMP(C) + 17.0 WEATHER -OVERCST  
 PHASE R MAP NH1309 SITE H336 TIME TAKEN 15/07/02/80 RELIEF MODERATE VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.603 (29 36' 10") LONG 102.944 (102 56' 38") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL  
 SURFACE GEOL UNIT UKSE RESULTS REQ YES, RELEASED 800708 BED MATERIAL SAMPLE: COLOR L-BN-GY ODOR NONE

## REMARKS:

1-38 MARAVILLAS CANYON SW 7 1/2' QUAD, READING TAKEN ON THIN-BEDDED, SHALEY LIMESTONE ON EAST BANK OF STREAM;

1-78 BOB WEST &amp; REGIONAL DIRECTOR &amp; TEXAS PARKS AND WILDLIFE &amp; 3407 S CHADBOURNE &amp; SAN ANGELO, TX. 76901;

029368 TYPE STREAM SEDIMENT REPLICATE SAMPLER CJS AIR TEMP(C) + 9.0 WEATHER U WINDY-OVERCST  
 PHASE E MAP NH1309 SITE H337 TIME TAKEN 10/08/02/80 RELIEF HIGH VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.625 (29 37' 30") LONG 102.890 (102 53' 24") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 BED MATERIAL COBBLE SAMPLE: COLOR M-BN-GY ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL (%) 01

## REMARKS:

1-38 MARAVILLAS CANYON SW 7 1/2' QUAD, SAMPLE COLLECTED OVER A 60M INTERVAL GOING UPSTREAM STARTING 20M UPSTREAM FROM

## CONFLUENCE:

I-51 LIMESTONE FRAGMENTS:

I-78 BOB WEST &amp; REGIONAL DIRECTOR &amp; TEXAS PARKS AND WILDLIFE &amp; 3407 S CHADBOURNE &amp; SAN ANGELO, TX. 76901:

029370	TYPE	STREAM SEDIMENT	REPLICATE	SAMPLER	CJS	AIR TEMP(C)	+ 9.0	WEATHER	U WINDY-OVERCAST			
	PHASE	E	MAP	NH1309	SITE	H338	TIME TAKEN	11/08/02/80	RELIEF	HIGH	VEGETATION	BRUSH-SPARSE
	LOCATION:	LAT	29.617( 29 37' 1")	LONG	102.888(102 53' 16")	CONTAMINANTS	NONE	STREAM FLOW(M/SEC)				
	SURFACE GEOL UNIT	LKSE	RESULTS REQ	YES	,RELEASED	800708	WATER: WIDTH(M)		DEPTH(M)		LEVEL	DRY
							BED MATERIAL	COBBLE	SAMPLE: COLOR	L-BN-GY	ODOR	NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION	DRY	SAMPLE TREATMENT	NONE	NUMBER OF GRABS	20	ORGANIC MATERIAL(%)	01
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## REMARKS:

I-38 MARAVILLAS CANYON SW 7 1/2' QUAD, SAMPLE COLLECTED OVER A 50M INTERVAL GOING UPSTREAM STARTING 60M UPSTREAM FROM ROAD:

I-51 LIMESTONE FRAGMENTS:

I-78 BOB WEST &amp; REGIONAL DIRECTOR &amp; TEXAS PARKS AND WILDLIFE &amp; 3407 S CHADBOURNE &amp; SAN ANGELO, TX 76901:

029371	TYPE	OTHER	REPLICATE	SAMPLER	CJS	AIR TEMP(C)	+ 10.0	WEATHER	U WINDY-OVERCAST			
	PHASE	R	MAP	NH1309	SITE	H339	TIME TAKEN	13/08/02/80	RELIEF	HIGH	VEGETATION	BRUSH-SPARSE
	LOCATION:	LAT	29.615( 29 36' 54")	LONG	102.890(102 53' 24")	CONTAMINANTS	NONE	STREAM FLOW(M/SEC)				
	SURFACE GEOL UNIT	LKSE	RESULTS REQ	YES	,RELEASED	800708	WATER: WIDTH(M)		DEPTH(M)		LEVEL	
							BED MATERIAL		SAMPLE: COLOR	L-BN-GY	ODOR	NONE

## REMARKS:

I-38 MARAVILLAS CANYON SW 7 1/2' QUAD, READING TAKEN ON BASE OF MASSIVE LIMESTONE OUTCROP ON WEST BANK OF CANYON:

I-78 BOB WEST &amp; REGIONAL DIRECTOR &amp; TEXAS PARKS AND WILDLIFE &amp; 3407 S CHADBOURNE &amp; SAN ANGELO, TX 76901:

029372	TYPE	STREAM SEDIMENT	REPLICATE	SAMPLER	CJS	AIR TEMP(C)	+ 9.5	WEATHER	U WINDY-OVERCAST			
	PHASE	E	MAP	NH1309	SITE	H340	TIME TAKEN	14/08/02/80	RELIEF	HIGH	VEGETATION	BRUSH-SPARSE
	LOCATION:	LAT	29.609( 29 36' 32")	LONG	102.890(102 53' 24")	CONTAMINANTS	NONE	STREAM FLOW(M/SEC)				
	SURFACE GEOL UNIT	LKSE	RESULTS REQ	YES	,RELEASED	800708	WATER: WIDTH(M)		DEPTH(M)		LEVEL	DRY
							BED MATERIAL	PEBBLE	SAMPLE: COLOR	L-GY-BN	ODOR	NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION	DRY	SAMPLE TREATMENT	NONE	NUMBER OF GRABS	18	ORGANIC MATERIAL(%)	
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## REMARKS:

I-38 MARAVILLAS CANYON SW 7 1/2' QUAD, SAMPLE COLLECTED OVER A 70M INTERVAL GOING UPSTREAM STARTING 30M UPSTREAM FROM ROAD:

I-51 LIMESTONE AND BASALT ROCK FRAGMENTS:

I-78 BOB WEST &amp; REGIONAL DIRECTOR &amp; TEXAS PARKS AND WILDLIFE &amp; 3407 S CHADBOURNE &amp; SAN ANGELO, TX 76901:

029373	TYPE	STREAM SEDIMENT	REPLICATE	SAMPLER	CJS	AIR TEMP(C)	+ 8.0	WEATHER	U WINDY-OVERCAST			
	PHASE	E	MAP	NH1309	SITE	H341	TIME TAKEN	15/08/02/80	RELIEF	HIGH	VEGETATION	BRUSH-SPARSE
	LOCATION:	LAT	29.606( 29 36' 21")	LONG	102.876(102 52' 33")	CONTAMINANTS	NONE	STREAM FLOW(M/SEC)				
	SURFACE GEOL UNIT	LKSE	RESULTS REQ	YES	,RELEASED	800708	WATER: WIDTH(M)		DEPTH(M)		LEVEL	DRY
							BED MATERIAL	PEBBLE	SAMPLE: COLOR	L-BN-GY	ODOR	NONE

## SEDIMENT INFORMATION:



SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL (%) 01

## REMARKS:

1-38 MARAVILLAS CANYON SW 7 1/2' QUAD, SAMPLE COLLECTED OVER A 60M INTERVAL GOING UPSTREAM STARTING 100M UPSTREAM FROM ROAD;  
 1-51 LIMESTONE FRAGMENTS;  
 1-78 BOB WEST & REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S CHADBOURNE & SAN ANGELO, TX 76901;

029374 TYPE STREAM SEDIMENT REPLICATE SAMPLER CJS AIR TEMP(C) + 9.0 WEATHER LT WIND-PT CLDY  
 PHASE E MAP NH1309 SITE H342 TIME TAKEN 10/11/02/80 RELIEF MODERATE VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.599 (29 35'56") LONG 102.901 (102 54' 3") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 BED MATERIAL PEBBLE SAMPLE: COLOR L-YL-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL (%)

## REMARKS:

1-38 MARAVILLAS CANYON SW 7 1/2' QUAD, SAMPLE COLLECTED OVER A 60M INTERVAL GOING UPSTREAM STARTING 70M UPSTREAM FROM  
 CONFLUENCE;  
 1-51 ASSORTED VOLCANIC AND LIMESTONE ROCK FRAGMENTS WITH FINER MATERIAL INTERSPERSED;  
 1-78 BOB WEST & REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S CHADBOURNE & SAN ANGELO, TX 76901;

029375 TYPE STREAM SEDIMENT REPLICATE SAMPLER CJS AIR TEMP(C) + 9.0 WEATHER LT WIND-PT CLDY  
 PHASE E MAP NH1309 SITE H343 TIME TAKEN 11/11/02/80 RELIEF MODERATE VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.599 (29 35'56") LONG 102.901 (102 54' 3") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 SURFACE GEOL UNIT LKLB RESULTS REQ YES, RELEASED 800708 BED MATERIAL PEBBLE SAMPLE: COLOR L-YL-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL (%)

## REMARKS:

1-38 MARAVILLAS CANYON SW 7 1/2' QUAD, SAMPLE COLLECTED OVER A 60M INTERVAL GOING UPSTREAM STARTING 70M UPSTREAM FROM  
 CONFLUENCE;  
 1-51 VOLCANIC, AND LIMESTONE ROCK FRAGMENTS WITH SAN, AND FINER MATERIAL;  
 1-78 BOB WEST & REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S CHADBOURNE & SAN ANGELO, TX 76901;

029376 TYPE STREAM SEDIMENT REPLICATE SAMPLER CJS AIR TEMP(C) + 10.0 WEATHER LT WIND-PT CLDY  
 PHASE E MAP NH1309 SITE H344 TIME TAKEN 13/11/02/80 RELIEF MODERATE VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.579 (29 34'44") LONG 102.898 (102 53'52") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 SURFACE GEOL UNIT UKSE RESULTS REQ YES, RELEASED 800708 BED MATERIAL PEBBLE SAMPLE: COLOR L-YL-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL (%)

## REMARKS:

1-38 MARAVILLAS CANYON SW 7 1/2' QUAD, SAMPLE COLLECTED OVER A 50M INTERVAL GOING UPSTREAM STARTING 15M UPSTREAM FROM ROAD;  
 1-51 BASALT FRAGMENTS MIXED WITH LIMESTONE FRAGMENTS AND FINER MATERIAL;  
 1-78 BOB WEST & REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S CHADBOURNE & SAN ANGELO, TX 76901;

029377 TYPE STREAM SEDIMENT REPLICATE SAMPLER CJS AIR TEMP(C) + 9.5 WEATHER LT WIND-PT CLDY  
 PHASE E MAP NH1309 SITE H345 TIME TAKEN 14/11/02/80 RELIEF MODERATE VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.531( 29 31'51") LONG 102.904(102 54'14") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT UKSE RESULTS REQ YES, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL PEBBLE SAMPLE: COLOR L-PK-BN ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 18 ORGANIC MATERIAL(%)

## REMARKS:

1-38 MARAVILLAS CANYON SW 7 1/2' QUAD, SAMPLE COLLECTED OVER A 55M INTERVAL GOING DOWNSTREAM STARTING 50M DOWNSTREAM FROM ROAD CROSSING;  
 1-51 PREDOMINANTLY LIMESTONE FRAGMENTS WITH SOME BASALT FRAGMENTS;  
 1-78 BOB WEST & REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S CHADBOURNE & SAN ANGELO, TX 76901;

029378 TYPE OTHER REPLICATE SAMPLER CJS AIR TEMP(C) + 8.0 WEATHER LT WIND-PT CLDY  
 PHASE R MAP NH1309 SITE H346 TIME TAKEN 15/11/02/80 RELIEF HIGH VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.615( 29 36'54") LONG 102.884(102 53' 2") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL  
 BED MATERIAL SAMPLE: COLOR L-GY-WH ODOR NONE

## REMARKS:

1-38 MARAVILLAS CANYON SW 7 1/2' QUAD, READING TAKEN ON CLIFF-LIKE LIMESTONE OUTCROP 50M UP-HILL ON SOUTH SIDE OF STREAM;  
 1-78 BOB WEST & REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S CHADBOURNE & SAN ANGELO, TX 76901;

029379 TYPE OTHER REPLICATE SAMPLER CJS AIR TEMP(C) + 7.5 WEATHER LT WIND-PT CLDY  
 PHASE R MAP NH1309 SITE H347 TIME TAKEN 15/11/02/80 RELIEF VEGETATION  
 LOCATION: LAT 29.561( 29 33'39") LONG 102.900(102 54' 0") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT UKSE RESULTS REQ YES, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL  
 BED MATERIAL SAMPLE: COLOR L-PK-GY ODOR NONE

## REMARKS:

1-38 MARAVILLAS CANYON SW 7 1/2' QUAD, READING TAKEN ON OUTCROPPING OF THINLY-BEDDED, SILTY LIMESTONE, EXPOSED ALONG NORTH SIDE OF ROAD;  
 1-78 BOB WEST & REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S CHADBOURNE & SAN ANGELO, TX 76901;

029380 TYPE STREAM SEDIMENT REPLICATE SAMPLER CJS AIR TEMP(C) + 15.0 WEATHER CALM-CLEAR  
 PHASE E MAP NH1309 SITE H348 TIME TAKEN 11/12/02/80 RELIEF HIGH VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.526( 29 31'33") LONG 102.918(102 55' 4") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL PEBBLE SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%)

## REMARKS:

1-38 MARAVILLAS CANYON SW 7 1/2' QUAD, SAMPLE COLLECTED OVER A 60M INTERVAL GOING UPSTREAM STARTING 35M UPSTREAM FROM ROAD;  
 1-51 LIMESTONE FRAGMENTS;  
 1-78 BOB WEST & REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S CHADBOURNE, SAN ANGELO, TX. 76901;



029381 TYPE STREAM SEDIMENT REPLICATE SAMPLER CJS AIR TEMP(C) + 17.0 WEATHER LT WIND-CLEAR  
 PHASE E MAP NH1309 SITE H349 TIME TAKEN 13/12/02/80 RELIEF HIGH VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.527( 29 31'37") LONG 102.919(102 55' 8") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES ,RELEASED 800708 BED MATERIAL PEBBLE SAMPLE: COLOR L-GY-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 18 ORGANIC MATERIAL(%)

## REMARKS:

1-38 MARAVILLAS CANYON SW 7 1/2' QUAD, SAMPLE COLLECTED OVER A 50M INTERVAL GOING UPSTREAM STARTING 20M UPSTREAM FROM ROAD;

1-51 LIMESTONE FRAGMENTS;

1-78 BOB WEST & REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX. 76901;

029382 TYPE STREAM SEDIMENT REPLICATE SAMPLER CJS AIR TEMP(C) + 18.0 WEATHER LT WIND-CLEAR  
 PHASE E MAP NH1309 SITE H350 TIME TAKEN 14/12/02/80 RELIEF HIGH VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.582( 29 34'55") LONG 102.961(102 57'39") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 SURFACE GEOL UNIT TEU RESULTS REQ YES ,RELEASED 800708 BED MATERIAL PEBBLE SAMPLE: COLOR M-YL-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%)

## REMARKS:

1-38 MARAVILLAS CANYON SW 7 1/2' QUAD, SAMPLE COLLECTED OVER A 60M INTERVAL GOING UPSTREAM STARTING 100M UPSTREAM FROM CONFLUENCE;

1-51 FRAGMENTS OF BASALT WITH FINER MATERIAL INTERSPERSED;

1-78 BOB WEST & REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029383 TYPE STREAM SEDIMENT REPLICATE SAMPLER CJS AIR TEMP(C) + 17.5 WEATHER LT WIND-CLEAR  
 PHASE E MAP NH1309 SITE H351 TIME TAKEN 15/12/02/80 RELIEF HIGH VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.583( 29 34'58") LONG 102.962(102 57'43") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 SURFACE GEOL UNIT QD RESULTS REQ YES ,RELEASED 800708 BED MATERIAL PEBBLE SAMPLE: COLOR L-YL-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%)

## REMARKS:

1-38 MARAVILLAS CANYON SW 7 1/2' QUAD, SAMPLE COLLECTED OVER A 60M INTERVAL GOING UPSTREAM STARTING 100M UPSTREAM FROM CONFLUENCE;

1-51 BASALT FRAGMENTS, SOME LIMESTONE FRAGMENTS, AND FINER MATERIAL INTERSPERSED;

1-78 BOB WEST & REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029384 TYPE STREAM SEDIMENT REPLICATE SAMPLER CJS AIR TEMP(C) + 18.0 WEATHER LT WIND-CLEAR  
 PHASE E MAP NH1309 SITE H352 TIME TAKEN 14/12/02/80 RELIEF MODERATE VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.580( 29 34'48") LONG 102.937(102 56'13") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 SURFACE GEOL UNIT TEU RESULTS REQ YES ,RELEASED 800708 BED MATERIAL PEBBLE SAMPLE: COLOR M-YL-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 18 ORGANIC MATERIAL (%)

## REMARKS:

1-38 MARAVILLAS CANYON SW 7 1/2' QUAD, SAMPLE COLLECTED OVER A 55M INTERVAL GOING UPSTREAM STARTING 70M UPSTREAM FROM CONFLUENCE:

1-51 BASALT FRAGMENTS AND FINES:

1-78 BOB WEST & REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S CHADBOURNE & SAN ANGELO, TX 76901:

029385 TYPE STREAM SEDIMENT REPLICATE SAMPLER CJS AIR TEMP(C) + 17.0 WEATHER LT WIND-CLEAR  
 PHASE E MAP NH1309 SITE H353 TIME TAKEN 15/12/02/80 RELIEF MODERATE VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.578 (29 34' 40") LONG 102.926 (102 55' 33") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 SURFACE GEOL UNIT UKSE RESULTS REQ YES, RELEASED 800708 BED MATERIAL PEBBLE SAMPLE: COLOR M-YL-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 18 ORGANIC MATERIAL (%)

## REMARKS:

1-38 MARAVILLAS CANYON SW 7 1/2' QUAD, SAMPLE COLLECTED OVER A 50M INTERVAL GOING UPSTREAM STARTING 25M UPSTREAM FROM ROAD:

1-51 BASALT, AND LIMESTONE FRAGMENTS WITH FINE MATERIAL INTERSPERSED:

1-78 BOB WEST & REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S CHADBOURNE & SAN ANGELO, TX. 76901:

029386 TYPE STREAM SEDIMENT REPLICATE SAMPLER CJS AIR TEMP(C) + 17.0 WEATHER LT WIND-CLEAR  
 PHASE E MAP NH1309 SITE H354 TIME TAKEN 15/12/02/80 RELIEF MODERATE VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.585 (29 35' 6") LONG 102.918 (102 55' 4") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 SURFACE GEOL UNIT LKLB RESULTS REQ YES, RELEASED 800708 BED MATERIAL PEBBLE SAMPLE: COLOR M-YL-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL (%)

## REMARKS:

1-38 MARAVILLAS CANYON SW 7 1/2' QUAD, SAMPLE COLLECTED OVER A 70M INTERVAL GOING UPSTREAM STARTING 30M UPSTREAM FROM CONFLUENCE:

1-51 SMALL PEBBLES OF LIMESTONE, AND BASALT WITH FINE MATERIAL INTERSPERSED:

1-78 BOB WEST & REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S CHADBOURNE & SAN ANGELO, TX, 76901:

029387 TYPE STREAM SEDIMENT REPLICATE SAMPLER CJS AIR TEMP(C) + 15.0 WEATHER LT WIND-CLEAR  
 PHASE E MAP NH1309 SITE H355 TIME TAKEN 11/13/02/80 RELIEF MODERATE VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.692 (29 41' 31") LONG 102.808 (102 48' 28") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 BED MATERIAL PEBBLE SAMPLE: COLOR L-GY-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL (%) 01

## REMARKS:

1-38 MARAVILLAS CANYON NE 7 1/2' QUAD, SAMPLE COLLECTED OVER A 10M INTERVAL GOING UPSTREAM STARTING 20M UPSTREAM FROM ROAD:

1-51 LIMESTONE FRAGMENTS:

1-78 G. STOUALL & 906 & EL CAMPO, TX 79437:



029388 TYPE OTHER REPLICATE SAMPLER CJS AIR TEMP(C) + 16.0 WEATHER LT WIND-CLEAR  
 PHASE R MAP NH1309 SITE H356 TIME TAKEN 12/13/02/80 RELIEF HIGH VEGETATION  
 LOCATION: LAT 29.660 (29 39'36") LONG 102.816 (102 48'57") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT QD RESULTS REQ NO , RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL  
 BED MATERIAL SAMPLE: COLOR L-GY-BN ODOR NONE

## REMARKS:

1-38 MARAVILLAS CANYON NE 7 1/2' QUAD, READING TAKEN ON LIMESTONE GRAVEL TERRACE NEXT TO ROAD;

029389 TYPE STREAM SEDIMENT REPLICATE SAMPLER CJS AIR TEMP(C) + 16.5 WEATHER LT WIND-CLEAR  
 PHASE E MAP NH1309 SITE H357 TIME TAKEN 12/13/02/80 RELIEF HIGH VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.654 (29 39'14") LONG 102.822 (102 49'19") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES , RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL PEBBLE SAMPLE: COLOR L-GY-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 01

## REMARKS:

J-38 MARAVILLAS CANYON NE 7 1/2' QUAD, SAMPLE COLLECTED OVER A 70M INTERVAL GOING UPSTREAM STARTING AT POINT DESIGNATED ON MAP;  
 1-51 LIMESTONE FRAGMENTS;  
 J-78 G. STOVALL & BOX 906 & EL CAMPO, TX 79437;

029391 TYPE STREAM SEDIMENT REPLICATE SAMPLER CJS AIR TEMP(C) + 18.0 WEATHER LT WIND-CLEAR  
 PHASE E MAP NH1309 SITE H358 TIME TAKEN 12/13/02/80 RELIEF HIGH VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.664 (29 39'50") LONG 102.801 (102 48' 3") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT LKSP RESULTS REQ YES , RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL PEBBLE SAMPLE: COLOR L-GY-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%)

## REMARKS:

1-38 MARAVILLAS CANYON NE 7 1/2' QUAD, SAMPLE COLLECTED OVER A 70M INTERVAL GOING UPSTREAM STARTING 15M UPSTREAM FROM ROAD;  
 1-51 LIMESTONE FRAGMENTS AND FINE MATERIAL;  
 J-78 G STOVALL & BOX 906 & EL CAMPO TX 79437;

029392 TYPE OTHER REPLICATE SAMPLER CJS AIR TEMP(C) + 18.0 WEATHER LT WIND-CLEAR  
 PHASE R MAP NH1309 SITE H359 TIME TAKEN 13/13/02/80 RELIEF HIGH VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.664 (29 39'50") LONG 102.801 (102 48' 3") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT QD RESULTS REQ NO , RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL  
 BED MATERIAL SAMPLE: COLOR L-GY-BN ODOR NONE

## REMARKS:

1-38 MARAVILLAS CANYON NE 7 1/2' QUAD, READING TAKEN ON LIMESTONE GRAVEL TERRACES ALONG STREAM CHANNEL;

029393 TYPE STREAM SEDIMENT REPLICATE SAMPLER CJS AIR TEMP(C) + 18.5 WEATHER LT WIND-CLEAR  
 PHASE E MAP NH1309 SITE H360 TIME TAKEN 13/13/02/80 RELIEF HIGH VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.674 (29 40'26") LONG 102.786 (102 47' 9") CONTAMINANTS NONE STREAM FLOW(M/SEC)

STILLWELL

10-31-80

PAGE 061

SURFACE GEOL UNIT LKSE RESULTS REQ YES ,RELEASED 800708

WATER: WIDTH(M)  
BED MATERIAL COBBLE

DEPTH(M)  
SAMPLE: COLOR L-GY-BN

LEVEL DRY  
ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY

SAMPLE TREATMENT NONE

NUMBER OF GRABS 18

ORGANIC MATERIAL(%) 01

REMARKS:

1-38 MARAVILLAS CANYON NE 7 1/2' QUAD, SAMPLE COLLECTED OVER A 65M INTERVAL GOING UPSTREAM STARTING AT POINT DESIGNATED ON MAP;  
1-51 LIMESTONE FRAGMENTS AND FINER MATERIAL INTERSPERSED;  
1-78 G. STOVALL & BOX 906 & EL CAMPO, TX 79437;

029394 TYPE STREAM SEDIMENT REPLICATE SAMPLER CJS

AIR TEMP(C) + 18.5

WEATHER LT WIND-CLEAR

PHASE E MAP NH1309 SITE H361 TIME TAKEN 14/13/02/80

RELIEF HIGH VEGETATION BRUSH-MODERATE

LOCATION: LAT 29.687 (29 41' 13") LONG 102.769 (102 46' 8")

CONTAMINANTS NONE

STREAM FLOW(M/SEC)

SURFACE GEOL UNIT LKSE RESULTS REQ YES ,RELEASED 800708

WATER: WIDTH(M)  
BED MATERIAL PEBBLE

DEPTH(M)  
SAMPLE: COLOR L-GY-BN

LEVEL DRY  
ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY

SAMPLE TREATMENT NONE

NUMBER OF GRABS 19

ORGANIC MATERIAL(%) 01

REMARKS:

1-38 MARAVILLAS CANYON NE 7 1/2' QUAD, SAMPLE COLLECTED OVER A 60M INTERVAL GOING UPSTREAM STARTING AT POINT DESIGNATED ON MAP;  
1-51 LIMESTONE FRAGMENTS OF ALL SIZES;  
1-78 G. STOVALL & BOX 906 & EL CAMPO, TX 79437;

029395 TYPE OTHER REPLICATE SAMPLER CJS

AIR TEMP(C) + 18.5

WEATHER

PHASE R MAP NH1309 SITE H362 TIME TAKEN 14/13/02/80

RELIEF VEGETATION

LOCATION: LAT 29.686 (29 41' 9") LONG 102.788 (102 47' 16")

CONTAMINANTS NONE

STREAM FLOW(M/SEC)

SURFACE GEOL UNIT QD RESULTS REQ NO ,RELEASED 800708

WATER: WIDTH(M)  
BED MATERIAL

DEPTH(M)  
SAMPLE: COLOR L-GY-BN

LEVEL  
ODOR NONE

REMARKS:

1-38 MARAVILLAS CANYON NE 7 1/2' QUAD, READING TAKEN ON LIMESTONE-GRAVEL STREAM-TERRACE DEPOSITS ALONG ROADSIDE;

029396 TYPE STREAM SEDIMENT REPLICATE SAMPLER CJS

AIR TEMP(C) + 20.0

WEATHER LT WIND-CLEAR

PHASE E MAP NH1309 SITE H363 TIME TAKEN 12/15/02/80

RELIEF GENTLE VEGETATION BRUSH-MODERATE

LOCATION: LAT 29.760 (29 45' 36") LONG 102.980 (102 58' 48")

CONTAMINANTS NONE

STREAM FLOW(M/SEC)

SURFACE GEOL UNIT LKSE RESULTS REQ YES ,RELEASED 800708

WATER: WIDTH(M)  
BED MATERIAL PEBBLE

DEPTH(M)  
SAMPLE: COLOR L-GY-BN

LEVEL DRY  
ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY

SAMPLE TREATMENT NONE

NUMBER OF GRABS 18

ORGANIC MATERIAL(%) 01

REMARKS:

1-38 DOVE MOUNTAIN 15' QUAD, SAMPLE COLLECTED OVER A 65M INTERVAL GOING UPSTREAM STARTING 20M UPSTREAM FROM ROAD;  
1-51 LIMESTONE FRAGMENTS;  
1-78 HERMAN MAYHEW & 13059 BERRY KNOLL & DALLAS, TX 75230;

029397 TYPE STREAM SEDIMENT REPLICATE SAMPLER CJS

AIR TEMP(C) + 21.0

WEATHER -CLEAR



PHASE E MAP NH1309 SITE H364 TIME TAKEN 12/15/02/80  
 LOCATION: LAT 29.756 (29 45' 21") LONG 102.979 (102 58' 44")

RELIEF GENTLE VEGETATION BRUSH-MODERATE  
 CONTAMINANTS NONE STREAM FLOW (M/SEC)

SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708

WATER: WIDTH (M) DEPTH (M) LEVEL DRY  
 BED MATERIAL PEBBLE SAMPLE: COLOR L-GY-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 17 ORGANIC MATERIAL (%)

## REMARKS:

J-38 DOVE MOUNTAIN 15' QUAD, SAMPLE COLLECTED OVER A 50M INTERVAL GOING UPSTREAM STARTING 30M UPSTREAM FROM ROAD;  
 I-51 LIMESTONE ROCK FRAGMENTS;  
 J-78 HERMAN MAYHEW & 13059 BERRY KNOLL & DALLAS 75230;

029398 TYPE STREAM SEDIMENT REPLICATE SAMPLER CJS  
 PHASE E MAP NH1309 SITE H365 TIME TAKEN 14/15/02/80  
 LOCATION: LAT 29.755 (29 45' 18") LONG 102.931 (102 55' 51")

AIR TEMP (C) + 23.0 WEATHER -CLEAR  
 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
 CONTAMINANTS NONE STREAM FLOW (M/SEC)

SURFACE GEOL UNIT LKSP RESULTS REQ YES, RELEASED 800708

WATER: WIDTH (M) DEPTH (M) LEVEL DRY  
 BED MATERIAL PEBBLE SAMPLE: COLOR L-GY-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL (%) 01

## REMARKS:

I-38 DOVE MOUNTAIN 15' QUAD, SAMPLE COLLECTED OVER A 60M INTERVAL GOING UPSTREAM STARTING AT POINT DESIGNATED ON MAP;  
 I-51 LIMESTONE FRAGMENTS;  
 J-78 HERMAN MAYHEW & 13059 BERRY KNOLL & DALLAS, TX 75230;

029399 TYPE STREAM SEDIMENT REPLICATE SAMPLER CJS  
 PHASE E MAP NH1309 SITE H366 TIME TAKEN 15/15/02/80  
 LOCATION: LAT 29.751 (29 45' 3") LONG 102.940 (102 56' 24")

AIR TEMP (C) + 23.0 WEATHER -CLEAR  
 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
 CONTAMINANTS NONE STREAM FLOW (M/SEC)

SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708

WATER: WIDTH (M) DEPTH (M) LEVEL DRY  
 BED MATERIAL PEBBLE SAMPLE: COLOR L-GY-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL (%) 01

## REMARKS:

J-38 DOVE MOUNTAIN 15' QUAD, SAMPLE COLLECTED OVER A 70M INTERVAL GOING UPSTREAM STARTING AT POINT DESIGNATED ON MAP;  
 I-51 LIMESTONE FRAGMENTS MOSTLY, WITH SOME VOLCANIC ROCK FRAGMENTS AS WELL;  
 I-78 HERMAN MAYHEW & 13059 BERRY KNOLL & DALLAS, TX 75230;

029400 TYPE STREAM SEDIMENT REPLICATE SAMPLER CJS  
 PHASE E MAP NH1309 SITE H367 TIME TAKEN 15/15/02/80  
 LOCATION: LAT 29.751 (29 45' 3") LONG 102.943 (102 56' 34")

AIR TEMP (C) + 23.0 WEATHER -CLEAR  
 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
 CONTAMINANTS NONE STREAM FLOW (M/SEC)

SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708

WATER: WIDTH (M) DEPTH (M) LEVEL DRY  
 BED MATERIAL PEBBLE SAMPLE: COLOR L-GY-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 17 ORGANIC MATERIAL (%)

## REMARKS:

1-38 DOVE MOUNTAIN 15' QUAD, SAMPLE COLLECTED OVER A 55M INTERVAL GOING UPSTREAM STARTING 100M DOWNSTREAM FROM FENCE CROSSING;  
1-51 MOSTLY LIMESTONE FRAGMENTS, BUT A FEW OF VOLCANIC ORIGIN ALSO; 1-78 HERMAN MAYHEW & 13059 BERRY KNOLL \* DALLAS, TX, 75230;

029401 TYPE STREAM SEDIMENT REPLICATE SAMPLER CJS AIR TEMP(C) + 23.0 WEATHER -CLEAR  
PHASE E MAP NH1309 SITE H368 TIME TAKEN 15/15/02/80 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
LOCATION: LAT 29.751 (29 45' 3") LONG 102.948 (102 56' 52") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
BED MATERIAL PEBBLE SAMPLE: COLOR L-GY-BN ODOR NONE  
SEDIMENT INFORMATION:  
SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL (%)

## REMARKS:

1-38 DOVE MOUNTAIN 15' QUAD, SAMPLE COLLECTED OVER A 70M INTERVAL GOING UPSTREAM STARTING 50M UPSTREAM FROM OLD ROAD CROSSING;  
1-51 LIMESTONE FRAGMENTS;  
1-78 HERMAN MAYHEW & 13059 BERRY KNOLL & DALLAS, TX 75230;

029402 TYPE WELL WATER REPLICATE SAMPLER CJS AIR TEMP(C) + 25.0 WEATHER -PT CLDY  
PHASE E MAP NH1309 SITE H369 TIME TAKEN 11/19/02/80 RELIEF GENTLE VEGETATION BRUSH-MODERATE  
LOCATION: LAT 29.802 (29 48' 7") LONG 102.908 (102 54' 28") CONTAMINANTS NONE SAMPLE: COLOR U-WH-GY ODOR NONE  
SURFACE GEOL UNIT QD RESULTS REQ YES, RELEASED 800708

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 3340 DISSOLVED OXYGEN(PPM) 2.9  
WATER TEMP(C) + 27.6 VISIBILITY(M) 3.00 PH 7.4 LO-ION PAPER  
TOTAL ALKALINITY(PPM) 148 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 150  
APPEARANCE MURKY DISCHARGE(L/M)  
PRODUCING HORIZON LKSE CONFIDENCE POSSIBLE SOURCE GEOL. INFERENCE

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION GALVANIZED  
METERS FROM HEAD 0 WITH RESPECT TO PRESSURE TANK NONE USE HOUSE/STOCK PUMPING FREQUENCY RARE  
DEPTH TO PROD HORIZON(M) 333 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER  
WELL DEPTH(M) 367 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION OWNER

## REMARKS:

1-38 DOVE MOUNTAIN 15' QUAD, SAMPLE COLLECTED FROM FAUCET AT WELL HEAD. WELL IS 4M SOUTH OF WHITE CEMENT SHED;  
1-78 HERMAN MAYHEW & 13059 BERRY KNOLL & DALLAS, TX 75230;

029403 TYPE OTHER REPLICATE SAMPLER JHF AIR TEMP(C) + 25.0 WEATHER LT WIND-CLEAR  
PHASE R MAP NH1309 SITE H370 TIME TAKEN 15/04/02/80 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
LOCATION: LAT 29.496 (29 29' 45") LONG 102.870 (102 52' 12") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL  
BED MATERIAL SAMPLE: COLOR L-RD-BN ODOR NONE

## REMARKS:

1-38 STILLWELL CROSSING 7.5 MIN QUAD READING TAKEN ON HIGHLY DEFORMED CALCAREOUS SANDSTONE WITH VEINS, UUGS OF CALCITE ON  
OUTCROP 10M EAST OF MAIN CHANNEL;  
1-78 BOB WEST & TEXAS PARKS AND WILDLIFE & 3407 S CHADBOURNE & SAN ANGELO, TX 76901;



029404 TYPE OTHER REPLICATE SAMPLER JHF AIR TEMP(C) + 18.0 WEATHER LT WIND-CLEAR  
 PHASE R MAP NH1309 SITE H371 TIME TAKEN 11/05/02/80 RELIEF MODERATE VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.481 (29 28'51") LONG 102.815 (102 48'54") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL  
 BED MATERIAL SAMPLE: COLOR L-YL-GY ODOR NONE

## REMARKS:

1-38 STILLWELL CROSSING 7.5 MIN QUAD READING TAKEN ON OUTCROP OF MASSIVE, IRREGULARLY WEATHERED FINE GRAINED LIMESTONE BUDA? ;  
 1-78 BOB WEST & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029405 TYPE STREAM SEDIMENT REPLICATE SAMPLER JHF AIR TEMP(C) + 18.0 WEATHER LT WIND-CLEAR  
 PHASE E MAP NH1309 SITE H372 TIME TAKEN 12/05/02/80 RELIEF MODERATE VEGETATION BRUSH-DENSE  
 LOCATION: LAT 29.483 (29 28'58") LONG 102.826 (102 49'33") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT LKSE RESULTS REQ NO, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL PEBBLE SAMPLE: COLOR L-YL-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 01

## REMARKS:

1-38 STILLWELL CROSSING 7.5 MIN QUAD COLLECTED IN THE CENTER GOING DOWNSTREAM OVER A 70M INTERVAL STARTING AT POINT DESIGNATED  
 ON MAP;  
 1-51 # 1-54 POORLY SORTED CARBONATE SAND;

029406 TYPE STREAM SEDIMENT REPLICATE SAMPLER JHF AIR TEMP(C) + 18.0 WEATHER LT WIND-CLEAR  
 PHASE E MAP NH1309 SITE H373 TIME TAKEN 12/05/02/80 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.440 (29 26'24") LONG 102.863 (102 51'46") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT LKSE RESULTS REQ NO, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL SAND SAMPLE: COLOR L-YL-GY ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 17 ORGANIC MATERIAL(%) 01

## REMARKS:

1-38 STILLWELL CROSSING 7.5 MIN. TOPO., COLLECTED IN CENTER GOING UPSTREAM M STARTING M UPSTREAM OF CONFLUENCE;  
 1-51 MED. TO COARSE-GR. SAND AND SILT COMPOSED OF L.S. FRAG;

029407 TYPE OTHER REPLICATE SAMPLER JHF AIR TEMP(C) + 20.0 WEATHER LT WIND-CLEAR  
 PHASE R MAP NH1309 SITE H374 TIME TAKEN 14/05/02/80 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.445 (29 26'42") LONG 102.860 (102 51'36") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT LKSE RESULTS REQ NO, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL  
 BED MATERIAL SAMPLE: COLOR L-BN-WH ODOR NONE

## REMARKS:

1-38 STILLWELL CROSSING 7.5 MIN QUAD READING TAKEN ON OUTCROP OF BROWN TO CLEAR TO WHITE CALCITE AT QUARRY;

029408 TYPE STREAM SEDIMENT REPLICATE SAMPLER JHF AIR TEMP(C) + 19.0 WEATHER LT WIND-CLEAR  
 PHASE E MAP NH1309 SITE H375 TIME TAKEN 14/05/02/80 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.447 (29 26'49") LONG 102.869 (102 52' 8") CONTAMINANTS NONE STREAM FLOW(M/SEC)

SURFACE GEOL UNIT LKSE RESULTS REQ NO ,RELEASED 800708

WATER: WIDTH(M)  
BED MATERIAL SANDDEPTH(M)  
SAMPLE: COLOR - -LEVEL DRY  
ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 15 ORGANIC MATERIAL(%) 01

## REMARKS:

I-38 STILLWELL CROSSING 7.5 MIN. TOPO., COLLECTED IN CENTER GOING UPSTREAM OVER A 68M INTERVAL STARTING AT POINT DESIGNATED ON MAP:

J-51 # I-54 POORLY SORTED CARBONATE SAND:

029409 TYPE WELL WATER

REPLICATE

SAMPLER JHF

AIR TEMP(C) + 21.0

WEATHER LT WIND-CLEAR

PHASE E MAP NH1309 SITE H376 TIME TAKEN 16/05/02/80

RELIEF GENTLE VEGETATION BRUSH-MODERATE

LOCATION: LAT 29.451 (29 27' 3") LONG 102.821 (102 49' 15")

CONTAMINANTS NONE

SURFACE GEOL UNIT LKSE RESULTS REQ NO ,RELEASED 800708

SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE

CONDUCTIVITY(MICROMHOS/CM) 1370

DISSOLVED OXYGEN(PPM) 3.7

WATER TEMP(C) + 24.7

VISIBILITY(M) CLEAR

PH 5.8 LO-ION PAPER

TOTAL ALKALINITY(PPM) 162

P ALKALINITY(PPM) 35

M ALKALINITY(PPM) 170

APPEARANCE CLEAR

DISCHARGE(L/M)

PRODUCING HORIZON LKSE

CONFIDENCE PROBABLE

SOURCE GEOL. INFERENCE

## WELL INFORMATION:

TYPE DRILLED

POWER CLASSIFICATION ELECTRIC

CASING STEEL

PIPE COMPOSITION GALVANIZED

METERS FROM HEAD 34

WITH RESPECT TO PRESSURE TANK AFTER

USE HOUSE/STOCK

PUMPING FREQUENCY FREQUENT

DEPTH TO PROD HORIZON(M) 33

CONFIDENCE OF PRODUCING DEPTH POSSIBLE

SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE

WELL DEPTH(M) 33

CONFIDENCE OF WELL DEPTH POSSIBLE

SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

## REMARKS:

I-38 STILLWELL CROSSING 7.5 MIN QUAD COLLECTED FROM 2 INCH PIPE AT OLD WELL SITE ADJACENT TO ORANGE DRUM, ACTUAL WELL 34M NORTH ADJACENT TO TELEPHONE POLE:

029410 TYPE STREAM SEDIMENT

REPLICATE

SAMPLER JHF

AIR TEMP(C) + 14.0

WEATHER LT WIND-OVERCAST

PHASE E MAP NH1309 SITE H377 TIME TAKEN 10/07/02/80

RELIEF HIGH VEGETATION BRUSH-MODERATE

LOCATION: LAT 29.481 (29 28' 51") LONG 102.998 (102 59' 52")

CONTAMINANTS NONE

STREAM FLOW(M/SEC)

SURFACE GEOL UNIT LKSE RESULTS REQ NO ,RELEASED 800708

WATER: WIDTH(M)  
BED MATERIAL PEBBLE

DEPTH(M)

LEVEL DRY

SAMPLE: COLOR L-YL-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY

SAMPLE TREATMENT NONE

NUMBER OF GRABS 16

ORGANIC MATERIAL(%) 01

## REMARKS:

I-38 SUE PEAKS 7.5 MIN QUAD COLLECTED IN THE CENTER GOING UPSTREAM OVER AN 80M INTERVAL STARTING AT A POINT DUE NORTH OF SHACK:  
I-51 # I-54 POORLY SORTED LIMESTONE FRAGMENTS:

029411 TYPE OTHER

REPLICATE

SAMPLER JHF

AIR TEMP(C) + 16.0

WEATHER LT WIND-OVERCAST

PHASE R MAP NH1309 SITE H378 TIME TAKEN 10/07/02/80

RELIEF HIGH VEGETATION BRUSH-MODERATE

LOCATION: LAT 29.478 (29 28' 40") LONG 102.992 (102 59' 31")

CONTAMINANTS NONE

STREAM FLOW(M/SEC)

SURFACE GEOL UNIT LKSE RESULTS REQ NO ,RELEASED 800708

WATER: WIDTH(M)  
BED MATERIAL

DEPTH(M)

LEVEL

SAMPLE: COLOR L-YL-GY ODOR NONE



## REMARKS:

1-38 SUE PEAKS 7.5 MIN QUAD READING TAKEN ON YELLOW-GREY MASSIVE LIMESTONE, WEATHERING ORANGE-BROWN ON NORTH SIDE OF ROAD IN STREAM CHANNEL;

029412 TYPE STREAM SEDIMENT REPLICATE SAMPLER JHF AIR TEMP(C) + 16.0 WEATHER LT WIND-OVERCAST  
 PHASE E MAP NH1309 SITE H379 TIME TAKEN 10/07/02/80 RELIEF HIGH VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.478 (29 28'40") LONG 102.979 (102 58'44") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 SURFACE GEOL UNIT LKSE RESULTS REQ NO ,RELEASED 800708 BED MATERIAL PEBBLE SAMPLE: COLOR L-YL-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 17 ORGANIC MATERIAL(%) 01

## REMARKS:

1-38 SUE PEAKS 7.5 MIN QUAD COLLECTED IN THE CENTER GOING UPSTREAM OVER A 64M INTERVAL STARTING 30M UPSTREAM FROM DIRT ROAD CROSSING;  
 1-51 # 1-54 POORLY SORTED LIMESTONE FRAGMENTS;

029413 TYPE STREAM SEDIMENT REPLICATE SAMPLER JHF AIR TEMP(C) + 17.0 WEATHER ~~LT WIND-OVERCAST~~  
 PHASE E MAP NH1309 SITE H380 TIME TAKEN 11/07/02/80 RELIEF HIGH VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.479 (29 28'44") LONG 102.978 (102 58'40") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 SURFACE GEOL UNIT LKSE RESULTS REQ NO ,RELEASED 800708 BED MATERIAL PEBBLE SAMPLE: COLOR L-YL-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 18 ORGANIC MATERIAL(%) 01

## REMARKS:

1-38 SUE PEAKS 7.5 MIN QUAD COLLECTED IN THE CENTER GOING UPSTREAM OVER A 64M INTERVAL STARTING 35M UPSTREAM FROM DIRT ROAD CROSSING;  
 1-51 # 1-54 POORLY SORTED LIMESTONE FRAGMENTS;

029415 TYPE STREAM SEDIMENT REPLICATE SAMPLER JHF AIR TEMP(C) + 17.0 WEATHER LT WIND-OVERCAST  
 PHASE E MAP NH1309 SITE H381 TIME TAKEN 12/07/02/80 RELIEF HIGH VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.488 (29 29'16") LONG 102.977 (102 58'37") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 SURFACE GEOL UNIT LKSE RESULTS REQ NO ,RELEASED 800708 BED MATERIAL PEBBLE SAMPLE: COLOR L-YL-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 18 ORGANIC MATERIAL(%) 01

## REMARKS:

1-38 SUE PEAKS 7.5 MIN QUAD COLLECTED IN THE CENTER GOING UPSTREAM OVER A 70M INTERVAL STARTING 200M UPSTREAM FROM DIRT ROAD CROSSING;  
 1-51 # 1-54 POORLY SORTED LIMESTONE FRAGMENTS;

029416 TYPE OTHER REPLICATE SAMPLER JHF AIR TEMP(C) + 18.0 WEATHER LT WIND-OVERCAST  
 PHASE R MAP NH1309 SITE H382 TIME TAKEN 12/07/02/80 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.491 (29 29'27") LONG 102.977 (102 58'37") CONTAMINANTS NONE STREAM FLOW(M/SEC)

SURFACE GEOL UNIT LKSE RESULTS REQ NO ,RELEASED 800708

WATER: WIDTH(M)  
BED MATERIAL

DEPTH(M)  
SAMPLE: COLOR L-YL-GY

LEVEL  
ODOR NONE

REMARKS:

1-38 SUE PEAKS 7.5 MIN QUAD READING TAKEN ON OUTCROP OF MASSIVE FINE GRAINED LIMESTONE 90M EAST OF ROAD:

029417 TYPE STREAM SEDIMENT REPLICATE SAMPLER JHF  
PHASE E MAP NH1309 SITE H383 TIME TAKEN 13/07/02/80  
LOCATION: LAT 29.496( 29 29'45") LONG 102.980(102 58'48")

AIR TEMP(C) + 18.0 WEATHER LT WIND-OVERCST  
RELIEF MODERATE VEGETATION BRUSH-MODERATE  
CONTAMINANTS NONE STREAM FLOW(M/SEC)

WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
BED MATERIAL PEBBLE SAMPLE: COLOR L-YL-BN ODOR NONE

SURFACE GEOL UNIT LKSE RESULTS REQ NO ,RELEASED 800708

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 18 ORGANIC MATERIAL(%) 02

REMARKS:

1-38 SUE PEAKS 7.5 MIN QUAD COLLECTED IN THE CENTER GOING UPSTREAM OVER A 60M INTERVAL STARTING AT POINT DESIGNATED ON MAP:  
1-51 # 1-54 POORLY SORTED LIMESTONE FRAGMENTS:

029418 TYPE STREAM SEDIMENT REPLICATE SAMPLER JHF  
PHASE E MAP NH1309 SITE H384 TIME TAKEN 15/08/02/80  
LOCATION: LAT 29.488( 29 29'16") LONG 102.916(102 54'57")

AIR TEMP(C) + 18.0 WEATHER LT WIND-OVERCST  
RELIEF HIGH VEGETATION BRUSH-MODERATE  
CONTAMINANTS NONE STREAM FLOW(M/SEC)

WATER: WIDTH(M) DEPTH(M) LEVEL  
BED MATERIAL SAMPLE: COLOR L-YL-BN ODOR NONE

SURFACE GEOL UNIT LKSE RESULTS REQ YES ,RELEASED 800708

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 17 ORGANIC MATERIAL(%) 02

REMARKS:

J-38 SUE PEAKS 7.5 MIN QUAD COLLECTED IN THE CENTER GOING UPSTREAM OVER A 75M INTERVAL STARTING 48M UPSTREAM FROM CONFLUENCE:  
1-51 # 1-54 POORLY SORTED LIMESTONE FRAGMENTS:  
J-78 BOB WEST & TEXAS PARKS AND WILDLIFE & 3407 S CHADBOURNE & SAN ANGELO, TX 76901:

029419 TYPE STREAM SEDIMENT REPLICATE SAMPLER JHF  
PHASE E MAP NH1309 SITE H385 TIME TAKEN 15/08/02/80  
LOCATION: LAT 29.488( 29 29'16") LONG 102.916(102 54'57")

AIR TEMP(C) + 18.0 WEATHER LT WIND-PJ CLDY  
RELIEF HIGH VEGETATION BRUSH-MODERATE  
CONTAMINANTS NONE STREAM FLOW(M/SEC)

WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
BED MATERIAL PEBBLE SAMPLE: COLOR L-YL-BN ODOR NONE

SURFACE GEOL UNIT LKSE RESULTS REQ YES ,RELEASED 800708

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 19 ORGANIC MATERIAL(%) 02

REMARKS:

1-38 SUE PEAKS 7.5 MIN QUAD COLLECTED IN THE CENTER GOING UPSTREAM OVER A 60M INTERVAL STARTING 35M UPSTREAM FROM CONFLUENCE:  
1-51 # 1-54 POORLY SORTED LIMESTONE FRAGMENTS:  
J-78 BOB WEST & TEXAS PARKS AND WILDLIFE & 3407 S CHADBOURNE & SAN ANGELO, TX 76901:

029420 TYPE OTHER REPLICATE SAMPLER JHF  
PHASE R MAP NH1309 SITE H386 TIME TAKEN 15/08/02/80

AIR TEMP(C) + 17.0 WEATHER LT WIND-OVERCST  
RELIEF MODERATE VEGETATION BRUSH-MODERATE



LOCATION: LAT 29.489 (29 29' 20") LONG 102.913 (102 54' 46")

CONTAMINANTS NONE

STREAM FLOW (M/SEC)

SURFACE GEOL UNIT LKSE RESULTS REQ YES , RELEASED 800708

WATER: WIDTH (M)  
BED MATERIAL

DEPTH (M) LEVEL  
SAMPLE: COLOR L-YL-BN ODOR NONE

REMARKS:

J-38 SUE PEAKS 7.5 MIN QUAD READING TAKEN ON OUTCROP OF MASSIVE FINE GRAINED LIMESTONE EXPOSED AT CUT BANK ON THE NORTHWEST SIDE OF THE CHANNEL;  
I-78 BOB WEST & TEXAS PARKS WILDLIFE & 3407 S CHADBOURNE & SAN ANGELO, TX 76901;

029421 TYPE STREAM SEDIMENT REPLICATE SAMPLER JHF  
PHASE E MAP NH1309 SITE H387 TIME TAKEN 16/08/02/80  
LOCATION: LAT 29.470 (29 28' 12") LONG 102.881 (102 52' 51")

AIR TEMP (C) + 17.0  
RELIEF MODERATE  
CONTAMINANTS NONE

WEATHER LT WIND-OVERCAST  
VEGETATION BRUSH-MODERATE  
STREAM FLOW (M/SEC)

SURFACE GEOL UNIT LKSE RESULTS REQ NO , RELEASED 800708

WATER: WIDTH (M)  
BED MATERIAL SILT

DEPTH (M) LEVEL  
SAMPLE: COLOR M-YL-BN QDQR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 18 ORGANIC MATERIAL (%) 02

REMARKS:

J-38 SUE PEAKS 7.5 MIN QUAD COLLECTED IN THE CENTER GOING UPSTREAM OVER A 72M INTERVAL STARTING AT POINT DESIGNATED ON MAP;  
I-51 #1-54 SILT AND CLAY WITH DESSICATION CRACKS, LIMESTONE FRAGMENTS;

029422 TYPE OTHER REPLICATE SAMPLER JHF  
PHASE R MAP NH1309 SITE H388 TIME TAKEN 16/08/02/80  
LOCATION: LAT 29.476 (29 28' 33") LONG 102.882 (102 52' 55")

AIR TEMP (C) + 16.0  
RELIEF MODERATE  
CONTAMINANTS NONE

WEATHER LT WIND-OVERCAST  
VEGETATION BRUSH-MODERATE  
STREAM FLOW (M/SEC)

SURFACE GEOL UNIT UKSE RESULTS REQ NO , RELEASED 800708

WATER: WIDTH (M)  
BED MATERIAL

DEPTH (M) LEVEL  
SAMPLE: COLOR L-RD-BN ODOR NONE

REMARKS:

J-38 SUE PEAKS 7.5 MIN QUAD READING TAKEN ON EXPOSURE OF INTERBEDDED CALCAREOUS SILT STONE AT QUARRY;

029423 TYPE STREAM SEDIMENT REPLICATE SAMPLER JHF  
PHASE E MAP NH1309 SITE H389 TIME TAKEN 10/11/02/80  
LOCATION: LAT 29.455 (29 27' 18") LONG 102.934 (102 56' 2")

AIR TEMP (C) + 15.0  
RELIEF HIGH  
CONTAMINANTS NONE

WEATHER LT WIND-PT CLDY  
VEGETATION BRUSH-MODERATE  
STREAM FLOW (M/SEC)

SURFACE GEOL UNIT LKSE RESULTS REQ NO , RELEASED 800708

WATER: WIDTH (M)  
BED MATERIAL PEBBLE

DEPTH (M) LEVEL DRY  
SAMPLE: COLOR L-YL-BN QDQR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 18 ORGANIC MATERIAL (%) 01

REMARKS:

J-38 SUE PEAKS 7.5 MIN QUAD COLLECTED IN THE CENTER GOING UPSTREAM OVER A 56M INTERVAL STARTING 89 M UPSTREAM FROM CONFLUENCE;  
I-51 #1-54 POORLY SORTED LIMESTONE FRAGMENTS;

029424 TYPE STREAM SEDIMENT REPLICATE SAMPLER JHF  
PHASE E MAP NH1309 SITE H390 TIME TAKEN 11/11/02/80  
LOCATION: LAT 29.456 (29 27' 21") LONG 102.933 (102 55' 58")

AIR TEMP (C) + 16.0  
RELIEF HIGH  
CONTAMINANTS NONE

WEATHER LT WIND-PT CLDY  
VEGETATION BRUSH-MODERATE  
STREAM FLOW (M/SEC)

SURFACE GEOL UNIT LKSE RESULTS REQ NO , RELEASED 800708

WATER: WIDTH (M)  
BED MATERIAL PEBBLE

DEPTH (M) LEVEL DRY  
SAMPLE: COLOR L-YL-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 19 ORGANIC MATERIAL (%) 01

## REMARKS:

1-38 SUE PEAKS 7.5 MIN QUAD COLLECTED IN THE CENTER GOING UPSTREAM OVER A 72M INTERVAL STARTING 78 M UPSTREAM FROM CONFLUENCE;  
1-51 # 1-54 POORLY SORTED LIMESTONE FRAGMENTS;

029425 TYPE OTHER REPLICATE SAMPLER JHF AIR TEMP(C) + 17.0 WEATHER LT WIND-PT CLDY  
PHASE R MAP NH1309 SITE H391 TIME TAKEN 11/11/02/80 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
LOCATION: LAT 29.450 (29 27' 0") LONG 102.929 (102 55' 44") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
SURFACE GEOL UNIT LKSE RESULTS REQ NO ,RELEASED 800708 BED MATERIAL PEBBLE SAMPLE: COLOR L-YL-GY ODOR NONE

## REMARKS:

1-38 SUE PEAKS 7.5 MIN QUAD READING TAKEN ON MASSIVE FINE-GRAINED LIMESTONE ON SOUTH SIDE OF CHANNEL 100M SOUTH OF FENCELINE;

029426 TYPE STREAM SEDIMENT REPLICATE SAMPLER JHF AIR TEMP(C) + 18.0 WEATHER LT WIND-PT CLDY  
PHASE E MAP NH1309 SITE H392 TIME TAKEN 12/11/02/80 RELIEF HIGH VEGETATION BRUSH-MODERATE  
LOCATION: LAT 29.440 (29 26' 24") LONG 102.912 (102 54' 43") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
SURFACE GEOL UNIT LKSE RESULTS REQ NO ,RELEASED 800708 BED MATERIAL PEBBLE SAMPLE: COLOR L-YL-BN ODOR

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 18 ORGANIC MATERIAL (%) 01

## REMARKS:

1-38 SUE PEAKS 7.5 MIN QUAD COLLECTED IN THE CENTER GOING UPSTREAM OVER A 70M INTERVAL STARTING AT POINT DESIGNATED ON MAP;  
1-51 # 1-54 POORLY SORTED LIMESTONE FRAGMENTS;

029427 TYPE OTHER REPLICATE SAMPLER JHF AIR TEMP(C) + 18.0 WEATHER LT WIND-PT CLDY  
PHASE R MAP NH1309 SITE H393 TIME TAKEN 13/11/02/80 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
LOCATION: LAT 29.445 (29 26' 42") LONG 102.922 (102 55' 19") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
SURFACE GEOL UNIT LKSE RESULTS REQ NO ,RELEASED 800708 BED MATERIAL PEBBLE SAMPLE: COLOR L-YL-BN ODOR NONE

## REMARKS:

1-38 SUE PEAKS 7.5 MIN QUAD READING TAKEN ON SURFACE OF LIMESTONE OUTCROP SPARSELY COVERED WITH SOIL;

029428 TYPE STREAM SEDIMENT REPLICATE SAMPLER JHF AIR TEMP(C) + 18.0 WEATHER LT WIND-PT CLDY  
PHASE E MAP NH1309 SITE H394 TIME TAKEN 15/11/02/80 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
LOCATION: LAT 29.439 (29 26' 20") LONG 102.893 (102 53' 34") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
SURFACE GEOL UNIT LKSE RESULTS REQ NO ,RELEASED 800708 BED MATERIAL PEBBLE SAMPLE: COLOR L-YL-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 18 ORGANIC MATERIAL (%) 01

## REMARKS:

1-38 SUE PEAKS 7.5 MIN QUAD COLLECTED IN THE CENTER GOING UPSTREAM OVER A 60 M INTERVAL STARTING ADJACENT TO CUTBANK AT POINT



## DESIGNATED ON MAP:

I-51 # I-54 POORLY SORTED LIMESTONE FRAGMENTS:

029429 TYPE WELL WATER REPLICATE SAMPLER JHF AIR TEMP(C) + 17.0 WEATHER LT WIND-PT CLDY  
 PHASE E MAP NH1309 SITE H395 TIME TAKEN 10/12/02/80 RELIEF GENTLE VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.752 (29 45' 7") LONG 102.796 (102 47' 45") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QD RESULTS REQ YES, RELEASED 800708 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 1130 DISSOLVED OXYGEN (PPM) 4.7  
 WATER TEMP (C) + 31.5 VISIBILITY (M) CLEAR PH 6.9 LO-ION PAPER  
 TOTAL ALKALINITY (PPM) 242 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 238  
 APPEARANCE CLEAR DISCHARGE (L/M)  
 PRODUCING HORIZON UNKN CONFIDENCE POSSIBLE SOURCE GEOL. INFERENCE

## WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION GALVANIZED  
 METERS FROM HEAD 1 WITH RESPECT TO PRESSURE TANK NONE USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON (M) 348 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE  
 WELL DEPTH (M) 348 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION USER

## REMARKS:

I-38 DOVE MOUNTAIN 15 MIN QUAD COLLECTED FROM FAUCET ON PIPE IN CORRUGATED ALUMINUM WELL HOUSE, GUY STOVALL OWNER;  
 I-78 G. STOVALL & BOX 906 & EL CAMPO, TX 79437;

029430 TYPE STREAM SEDIMENT REPLICATE SAMPLER JHF AIR TEMP(C) + 17.0 WEATHER LT WIND-PT CLDY  
 PHASE E MAP NH1309 SITE H396 TIME TAKEN 11/12/02/80 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.730 (29 43' 48") LONG 102.791 (102 47' 27") CONTAMINANTS NONE STREAM FLOW (M/SEC)  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 WATER: WIDTH (M) DEPTH (M) LEVEL DRY  
 BED MATERIAL PEBBLE SAMPLE: COLOR L-YL-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 19 ORGANIC MATERIAL (%) 03

## REMARKS:

J-38 MARAVILLAS CANYON NE 7.5 MIN QUAD COLLECTED IN THE CENTER GOING UPSTREAM OVER A 65 M INTERVAL STARTING 30M UPSTREAM FROM  
 DIRT ROAD CROSSING;  
 J-51 # I-54 POORLY SORTED LIMESTONE FRAGMENTS;  
 I-78 G. STOVALL & BOX 906 & EL CAMPO, TX 79437;

029431 TYPE STREAM SEDIMENT REPLICATE SAMPLER JHF AIR TEMP(C) + 18.0 WEATHER LT WIND-PT CLDY  
 PHASE E MAP NH1309 SITE H397 TIME TAKEN 12/12/02/80 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.733 (29 43' 58") LONG 102.779 (102 46' 44") CONTAMINANTS NONE STREAM FLOW (M/SEC)  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 WATER: WIDTH (M) DEPTH (M) LEVEL DRY  
 BED MATERIAL PEBBLE SAMPLE: COLOR L-YL-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 18 ORGANIC MATERIAL (%) 03

## REMARKS:

I-38 MARAVILLAS CANYON NE 7.5 MIN QUAD COLLECTED IN THE CENTER GOING UPSTREAM OVER A 68 M INTERVAL STARTING AT POINT DESIGNATED

## ON MAP:

1-51 # 1-54 POORLY SORTED LIMESTONE FRAGMENTS;  
1-78 G. STOVALL & BOX 906 & EL CAMPO, TX 79437;

029432 TYPE STREAM SEDIMENT REPLICATE SAMPLER JHF AIR TEMP(C) + 19.0 WEATHER LT WIND-PT CLDY  
PHASE E MAP NH1309 SITE H398 TIME TAKEN 13/12/02/80 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
LOCATION: LAT 29.740 (29 44'24") LONG 102.773 (102 46'22") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
BED MATERIAL PEBBLE SAMPLE: COLOR M-YL-BN ODOR NONE

SEDIMENT INFORMATION:  
SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 19 ORGANIC MATERIAL(%) 02

## REMARKS:

1-38 MARAVILLAS CANYON NE 7.5 MIN QUAD COLLECTED IN THE CENTER GOING UPSTREAM OVER AN 80 M INTERVAL STARTING 80 M UPSTREAM FROM  
DIRT ROAD CROSSING;  
1-51 # 1-54 POORLY SORTED LIMESTONE FRAGMENTS;  
1-78 G. STOVALL & BOX 906 & EL CAMPO, TX 79437;

029433 TYPE STREAM SEDIMENT REPLICATE SAMPLER JHF AIR TEMP(C) + 19.0 WEATHER LT WIND-PT CLDY  
PHASE E MAP NH1309 SITE H399 TIME TAKEN 14/12/02/80 RELIEF GENTLE VEGETATION BRUSH-MODERATE  
LOCATION: LAT 29.731 (29 43'51") LONG 102.815 (102 48'54") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
SURFACE GEOL UNIT QD RESULTS REQ YES, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
BED MATERIAL SILT SAMPLE: COLOR L-QR-BN ODOR NONE

SEDIMENT INFORMATION:  
SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 18 ORGANIC MATERIAL(%) 04

## REMARKS:

1-38 MARAVILLAS CANYON NE 7.5 MIN QUAD COLLECTED IN THE CENTER GOING UPSTREAM OVER A 30 M INTERVAL STARTING 25 M UPSTREAM FROM  
DIRT ROAD CROSSING;  
1-51 # 1-54 SILT AND CLAY WITH DESSICATION CRACKS;  
1-78 G. STOVALL & BOX 906 & EL CAMPO, TX 79437;

029434 TYPE STREAM SEDIMENT REPLICATE SAMPLER JHF AIR TEMP(C) + 20.0 WEATHER LT WIND-PT CLDY  
PHASE E MAP NH1309 SITE H400 TIME TAKEN 15/12/02/80 RELIEF MODERATE VEGETATION BRUSH-SPARSE  
LOCATION: LAT 29.720 (29 43'12") LONG 102.853 (102 51'10") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL  
BED MATERIAL PEBBLE SAMPLE: COLOR L-YL-BN ODOR NONE

SEDIMENT INFORMATION:  
SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 19 ORGANIC MATERIAL(%) 02

## REMARKS:

1-38 MARAVILLAS CANYON NE 7.5 MIN QUAD COLLECTED IN THE CENTER GOING UPSTREAM OVER A 68 M INTERVAL STARTING 120M UPSTREAM FROM  
CONFLUENCE;  
1-51 # 1-54 POORLY SORTED LIMESTONE FRAGMENTS;  
1-78 G. STOVALL & BOX 906 & EL CAMPO, TX 79437;



029435 TYPE STREAM SEDIMENT REPLICATE SAMPLER JHF AIR TEMP(C) + 21.0 WEATHER LT WIND-PT CLDY  
 PHASE E MAP NH1309 SITE H401 TIME TAKEN 16/12/02/80 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.719( 29 43' 8") LONG 102.854(102 51' 14") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL PEBBLE SAMPLE: COLOR L-YL-BN ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 02

## REMARKS:

1-38 MARAVILLAS CANYON NE 7.5 MIN QUAD COLLECTED IN THE CENTER GOING UPSTREAM OVER A 70 M INTERVAL STARTING 100 M UPSTREAM FROM  
 CONFLUENCE;  
 1-51 # 1-54 POORLY SORTED LIMESTONE FRAGMENTS;  
 1-78 G. STOVALL & BOX 906 & EL CAMPO, TX 79437;

029436 TYPE OTHER REPLICATE SAMPLER JHF AIR TEMP(C) + 15.0 WEATHER LT WIND-PT CLDY  
 PHASE R MAP NH1309 SITE H402 TIME TAKEN 10/13/02/80 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.692( 29 41' 31") LONG 102.808(102 48' 28") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL  
 BED MATERIAL SAMPLE: COLOR L-YL-GY ODOR NONE

## REMARKS:

1-38 MARAVILLAS CANYON NE 7.5 MIN QUAD READING TAKEN ON OUTCROP OF MASSIVE, FINE GRAINED LIMESTONE 55M NORTH OF POINT AT WHICH  
 ROAD CROSSES CHANNEL;  
 1-78 G. STOVALL & BOX 906 & EL CAMPO, TX 79437;

029437 TYPE STREAM SEDIMENT REPLICATE SAMPLER JHF AIR TEMP(C) + 17.0 WEATHER LT WIND-PT CLDY  
 PHASE E MAP NH1309 SITE H403 TIME TAKEN 11/13/02/80 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.661( 29 39' 39") LONG 102.818(102 49' 4") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL PEBBLE SAMPLE: COLOR L-YL-BN ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 18 ORGANIC MATERIAL(%) 01

## REMARKS:

1-38 MARAVILLAS CANYON NE 7.5 MIN QUAD COLLECTED IN THE CENTER GOING UPSTREAM OVER A 70 M INTERVAL STARTING 120 M UPSTREAM FROM  
 CONFLUENCE;  
 1-51 # 1-54 POORLY SORTED LIMESTONE FRAGMENTS;  
 1-78 G. STOVALL & BOX 906 & EL CAMPO, TX 79437;

029438 TYPE STREAM SEDIMENT REPLICATE SAMPLER JHF AIR TEMP(C) + 18.0 WEATHER LT WIND-PT CLDY  
 PHASE E MAP NH1309 SITE H404 TIME TAKEN 12/13/02/80 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.654( 29 39' 14") LONG 102.820(102 49' 12") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT QD RESULTS REQ YES, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL SAND SAMPLE: COLOR L-YL-BN ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 19 ORGANIC MATERIAL(%) 01

## REMARKS:

1-38 MARAVILLAS CANYON NE 7.5 MIN QUAD COLLECTED IN THE CENTER GOING UPSTREAM OVER A 67 M INTERVAL STARTING AT POINT DESIGNATED ON MAP;

1-51 # 1-54 POORLY SORTED LIMESTONE FRAGMENTS;  
1-78 G. STOUALL & BOX 906 & EL CAMPO, TX 79437;

029439	TYPE OTHER	REPLICATE	SAMPLER JHF	AIR TEMP(C) + 18.0	WEATHER LT WIND-PT CLDY
PHASE R	MAP NH1309	SITE H405	TIME TAKEN 12/13/02/80	RELIEF MODERATE	VEGETATION BRUSH-MODERATE
LOCATION: LAT 29.656 (29 39'21")		LONG 102.820 (102 49'12")		CONTAMINANTS NONE	STREAM FLOW(M/SEC)
SURFACE GEOL UNIT QD		RESULTS REQ YES	RELEASED 800708	WATER: WIDTH(M)	DEPTH(M) LEVEL
				BED MATERIAL	SAMPLE: COLOR L-YL-BN QDOR NONE

## REMARKS:

1-38 MARAVILLAS CANYON NE 7.5 MIN QUAD READING TAKEN ON SURFACE OF TERRACE GRAVEL, DOMINANTLY LIMESTONE;  
1-78 G. STOUALL & BOX 906 & EL CAMPO, TX 79437;

029440	TYPE STREAM SEDIMENT	REPLICATE	SAMPLER JHF	AIR TEMP(C) + 19.0	WEATHER LT WIND-PT CLDY
PHASE E	MAP NH1309	SITE H406	TIME TAKEN 13/13/02/80	RELIEF MODERATE	VEGETATION BRUSH-MODERATE
LOCATION: LAT 29.663 (29 39'46")		LONG 102.797 (102 47'49")		CONTAMINANTS NONE	STREAM FLOW(M/SEC)
SURFACE GEOL UNIT QD		RESULTS REQ YES	RELEASED 800708	WATER: WIDTH(M)	DEPTH(M) LEVEL DRY
				BED MATERIAL PEBBLE	SAMPLE: COLOR L-YL-BN QDOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 19 ORGANIC MATERIAL(%) 01

## REMARKS:

1-38 MARAVILLAS CANYON NE 7.5 MIN QUAD COLLECTED IN THE CENTER GOING UPSTREAM OVER A 70M INTERVAL STARTING AT POINT DESIGNATED ON MAP;

1-51 # 1-54 POORLY SORTED LIMESTONE FRAGMENTS;  
1-78 G. STOUALL & BOX 906 & EL CAMPO, TX 79437;

029441	TYPE STREAM SEDIMENT	REPLICATE	SAMPLER JHF	AIR TEMP(C) + 19.0	WEATHER LT WIND-PT CLDY
PHASE E	MAP NH1309	SITE H407	TIME TAKEN 13/13/02/80	RELIEF MODERATE	VEGETATION BRUSH-MODERATE
LOCATION: LAT 29.673 (29 40'22")		LONG 102.795 (102 47'42")		CONTAMINANTS NONE	STREAM FLOW(M/SEC)
SURFACE GEOL UNIT LKSE		RESULTS REQ YES	RELEASED 800708	WATER: WIDTH(M)	DEPTH(M) LEVEL DRY
				BED MATERIAL PEBBLE	SAMPLE: COLOR M-YL-BN QDOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 17 ORGANIC MATERIAL(%) 01

## REMARKS:

1-38 MARAVILLAS CANYON NE 7.5 MIN QUAD COLLECTED IN THE CENTER GOING UPSTREAM OVER A 70 M INTERVAL STARTING 35 M UPSTREAM FROM DIRT ROAD CROSSING;

1-51 # 1-54 POORLY SORTED LIMESTONE FRAGMENTS;  
1-78 GUY STOUALL & BOX 906 & EL CAMPO, TX 79437;

029442	TYPE OTHER	REPLICATE	SAMPLER JHF	AIR TEMP(C) + 19.0	WEATHER LT WIND-PT CLDY
PHASE R	MAP NH1309	SITE H408	TIME TAKEN 14/13/02/80	RELIEF MODERATE	VEGETATION BRUSH-MODERATE
LOCATION: LAT 29.674 (29 40'26")		LONG 102.794 (102 47'38")		CONTAMINANTS NONE	STREAM FLOW(M/SEC)
				WATER: WIDTH(M)	DEPTH(M) LEVEL



SURFACE GEOL UNIT QD RESULTS REQ YES ,RELEASED 800708 BED MATERIAL SAMPLE: COLOR L-YL-GY ODOR NONE

## REMARKS:

J-38 MARAVILLAS CANYON NE 7.5 MIN QUAD READING TAKEN ON PARTIALLY CONSOLIDATED TERRACE GRAVEL CONSISTING DOMINANTLY OF CARBONATE FRAGMENTS AT CUTBANK 15M NORTH OF ROAD:  
J-78 G. STOVALL & BOX 906 & EL CAMPO, TX 79437:

029443 TYPE STREAM SEDIMENT REPLICATE SAMPLER JHF AIR TEMP(C) + 20.0 WEATHER LT WIND-PT CLDY  
PHASE E MAP NH1309 SITE H409 TIME TAKEN 14/13/02/80 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
LOCATION: LAT 29.685 (29 41' 6") LONG 102.789 (102 47' 20") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
SURFACE GEOL UNIT LKSE RESULTS REQ YES ,RELEASED 800708 BED MATERIAL PEBBLE SAMPLE: COLOR L-YL-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 18 ORGANIC MATERIAL(%) 01

## REMARKS:

J-38 MARAVILLAS CANYON NE 7.5 MIN QUAD COLLECTED IN THE CENTER GOING UPSTREAM OVER A 66 M INTERVAL STARTING AT CUTBANK:  
I-51 # I-54 POORLY SORTED LIMESTONE FRAGMENTS:  
J-78 G. STOVALL & BOX 906 & EL CAMPO, TX 79437:

029444 TYPE STREAM SEDIMENT REPLICATE SAMPLER JHF AIR TEMP(C) + 19.0 WEATHER LT WIND-PT CLDY  
PHASE E MAP NH1309 SITE H410 TIME TAKEN 15/13/02/80 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
LOCATION: LAT 29.701 (29 42' 3") LONG 102.764 (102 45' 50") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
SURFACE GEOL UNIT LKSE RESULTS REQ YES ,RELEASED 800708 BED MATERIAL PEBBLE SAMPLE: COLOR L-YL-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 18 ORGANIC MATERIAL(%) 01

## REMARKS:

J-38 MARAVILLAS CANYON NE 7.5 MIN QUAD COLLECTED IN THE CENTER GOING DOWNSTREAM OVER AN 80 M INTERVAL STARTING AT CUTBANK:  
I-51 # I-54 POORLY SORTED LIMESTONE FRAGMENTS:  
I-78 G. STOVALL & BOX 906 & EL CAMPO, TX 79437:

029445 TYPE STREAM SEDIMENT REPLICATE SAMPLER JHF AIR TEMP(C) + 18.0 WEATHER LT WIND-CLEAR  
PHASE E MAP NH1309 SITE H411 TIME TAKEN 10/14/02/80 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
LOCATION: LAT 29.636 (29 38' 9") LONG 102.882 (102 52' 55") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
SURFACE GEOL UNIT LKSE RESULTS REQ YES ,RELEASED 800708 BED MATERIAL PEBBLE SAMPLE: COLOR L-YL-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 17 ORGANIC MATERIAL(%) 02

## REMARKS:

MARAVILLAS CANYON SW 7.5 MIN QUAD COLLECTED IN THE CENTER GOING UPSTREAM OVER A 56 M INTERVAL STARTING 66 M UPSTREAM FROM CULVERT:  
J-51 # I-54 POORLY SORTED LIMESTONE FRAGMENTS:  
I-78 BOB WEST & TEXAS PARKS AND WILDLIFE & 3407 S CHADBOURNE & SAN ANGELO TX 76901:

029446 TYPE OTHER REPLICATE SAMPLER JHF AIR TEMP(C) + 19.0 WEATHER LT WIND-CLEAR  
 PHASE R MAP NH1309 SITE H412 TIME TAKEN 10/14/02/80 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.635( 29 38' 6") LONG 102.884(102 53' 2") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 SURFACE GEOL UNIT LKSE RESULTS REQ NO ,RELEASED 800708 BED MATERIAL PEBBLE SAMPLE: COLOR M-YL-BN ODOR NONE

## REMARKS:

1-38 SUE PEAKS 7.5 MIN QUAD READING TAKEN ON MASSIVE, FINE GRAINED LIMESTONE 26M WEST OF ROAD:

029447 TYPE STREAM SEDIMENT REPLICATE SAMPLER JHF AIR TEMP(C) + 22.0 WEATHER LT WIND-CLEAR  
 PHASE E MAP NH1309 SITE H413 TIME TAKEN 12/14/02/80 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.647( 29 38' 49") LONG 102.902(102 54' 7") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES ,RELEASED 800708 BED MATERIAL PEBBLE SAMPLE: COLOR M-YL-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL (%) 02

## REMARKS:

1-38 MARAVILLAS CANYON SW 7.5 MIN QUAD COLLECTED IN THE CENTER GOING UPSTREAM OVER A 60 M INTERVAL STARTING 180 M UPSTREAM FROM CONFLUENCE:

1-51 # 1-54 POORLY SORTED LIMESTONE FRAGMENTS:

1-78 BOB WEST & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901:

029448 TYPE STREAM SEDIMENT REPLICATE SAMPLER JHF AIR TEMP(C) + 25.0 WEATHER LT WIND-CLEAR  
 PHASE E MAP NH1309 SITE H414 TIME TAKEN 13/14/02/80 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.659( 29 39' 32") LONG 102.903(102 54' 10") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES ,RELEASED 800708 BED MATERIAL PEBBLE SAMPLE: COLOR M-YL-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 18 ORGANIC MATERIAL (%) 02

## REMARKS:

1-38 MARAVILLAS CANYON SW 7.5 MIN QUAD COLLECTED IN THE CENTER GOING UPSTREAM OVER A 70 M INTERVAL STARTING 100M UPSTREAM FROM CONFLUENCE:

1-51 # 1-54 POORLY SORTED LIMESTONE FRAGMENTS:

1-78 BOB WEST & TEXAS PARKS AND WILDLIFE & 3407 S CHADBOURNE & SAN ANGELO, TX 76901:

029449 TYPE STREAM SEDIMENT REPLICATE SAMPLER JHF AIR TEMP(C) + 27.0 WEATHER LT WIND-CLEAR  
 PHASE E MAP NH1309 SITE H415 TIME TAKEN 14/14/02/80 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.659( 29 39' 32") LONG 102.902(102 54' 7") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES ,RELEASED 800708 BED MATERIAL PEBBLE SAMPLE: COLOR M-YL-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 18 ORGANIC MATERIAL (%) 02

## REMARKS:

1-38 MARAVILLAS CANYON SW 7.5 MIN QUAD COLLECTED IN THE CENTER GOING UPSTREAM OVER A 60 M INTERVAL STARTING 160 M UPSTREAM FROM CONFLUENCE:



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PAGE 076

1-78 BOB WEST & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029450 TYPE STREAM SEDIMENT REPLICATE SAMPLER JHF AIR TEMP(C) + 28.0 WEATHER LT WIND-CLEAR  
PHASE E MAP NH1309 SITE H416 TIME TAKEN 15/14/02/80 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
LOCATION: LAT 29.658 (29 39' 28") LONG 102.890 (102 53' 24") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 BED MATERIAL PEBBLE SAMPLE: COLOR D-YL-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 18 ORGANIC MATERIAL (%) 01

REMARKS:

1-38 MARAVILLAS CANYON SW 7.5 MIN QUAD COLLECTED IN THE CENTER GOING UPSTREAM OVER A 68 M INTERVAL STARTING 34 M UPSTREAM FROM  
DIRT ROAD CROSSING;  
1-78 BOB WEST & TEXAS PARKS AND WILDLIFE & 3407 S CHADBOURNE & SAN ANGELO, TX 76901;

029452 TYPE STREAM SEDIMENT REPLICATE SAMPLER CSL AIR TEMP(C) + 17.5 WEATHER LT WIND-OVERCAST  
PHASE E MAP NH1309 SITE H417 TIME TAKEN 12/07/02/80 RELIEF HIGH VEGETATION BRUSH-SPARSE  
LOCATION: LAT 29.637 (29 38' 13") LONG 102.986 (102 59' 9") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
SURFACE GEOL UNIT TEU RESULTS REQ NO, RELEASED 800708 BED MATERIAL PEBBLE SAMPLE: COLOR D-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL (%) 01

REMARKS:

1-38 MARAVILLAS CANYON N.W. 7.5' QUAD COLLECTED SEDIMENT OVER A 67 M. INTERVAL STARTING 20M. UPSTREAM OF JEEP TRAIL AND GOING  
UPSTREAM IN MID-CHANNEL;  
1-51 DOM. VOLCANIC ROCK FRAGMENTS WITH SUBSTANTIAL CARBONATE FRACTION;

029453 TYPE STREAM SEDIMENT REPLICATE SAMPLER CSL AIR TEMP(C) + 17.5 WEATHER LT WIND-OVERCAST  
PHASE E MAP NH1309 SITE H418 TIME TAKEN 13/07/02/80 RELIEF HIGH VEGETATION BRUSH-SPARSE  
LOCATION: LAT 29.631 (29 37' 51") LONG 102.981 (102 58' 51") CONTAMINANTS OTHER STREAM FLOW(M/SEC)  
WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
SURFACE GEOL UNIT TEU RESULTS REQ NO, RELEASED 800708 BED MATERIAL PEBBLE SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL (%) 02

REMARKS:

1-38 MARAVILLAS CANYON 7.5' QUAD COLLECTED SEDIMENT OVER A 60M. STARTING 20M. UPSTREAM OF DRY POND AND GOING UPSTREAM IN  
MID-CHANNEL;  
1-51 DOM. VOLCANIC ROCK FRAGMENTS;  
1-60 JEEP TRAIL CROSSING UPSTREAM;

029454 TYPE STREAM SEDIMENT REPLICATE SAMPLER CSL AIR TEMP(C) + 2.0 WEATHER -OVERCAST  
PHASE E MAP NH1309 SITE H419 TIME TAKEN 10/08/02/80 RELIEF MODERATE VEGETATION BRUSH-SPARSE  
LOCATION: LAT 29.655 (29 39' 18") LONG 102.927 (102 55' 37") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
WATER: WIDTH(M) DEPTH(M) LEVEL DRY

SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800709 BED MATERIAL PEBBLE SAMPLE: COLOR L-YL-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL (%) 02

REMARKS:

1-38 MARAVILLAS CANYON N.W. 7.5' QUAD COLLECTED SEDIMENT OVER A 60M. INTERVAL STARTING AT CLIFFS AND GOING UPSTREAM IN MID-CHANNEL;

1-51 L.S.;

1-78 BOB WEST & REGIONAL DIRECTOR & TEXAS PARKS & WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TEXAS 76901;

029455 TYPE STREAM SEDIMENT REPLICATE SAMPLER CSL AIR TEMP(C) + 2.0 WEATHER -OVERCAST PHASE E MAP NH1309 SITE H420 TIME TAKEN 11/08/02/80 RELIEF MODERATE VEGETATION BRUSH-SPARSE LOCATION: LAT 29.652( 29 39' 7") LONG 102.928(102 55'40") CONTAMINANTS NONE STREAM FLOW(M/SEC) WATER: WIDTH(M) DEPTH(M) LEVEL DRY SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 BED MATERIAL SAND SAMPLE: COLOR L-YL-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL (%) 02

REMARKS:

1-38 MARAVILLAS CANYON N.W. 7.5' QUAD COLLECTED SEDIMENT OVER A 60M. INTERVAL 120M. UPSTREAM OF CONFLUENCE AND GOING UPSTREAM IN MID-CHANNEL;

1-51 DONN, L.S. SOME VOLCANICS;

1-78 BOB WEST & REGIONAL DIRECTOR & TEXAS PARKS & WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TEXAS 76901;

029456 TYPE STREAM SEDIMENT REPLICATE SAMPLER CSL AIR TEMP(C) + 2.0 WEATHER -OVERCAST PHASE E MAP NH1309 SITE H421 TIME TAKEN 14/08/02/80 RELIEF MODERATE VEGETATION BRUSH-SPARSE LOCATION: LAT 29.645( 29 38'42") LONG 102.911(102 54'39") CONTAMINANTS NONE STREAM FLOW(M/SEC) WATER: WIDTH(M) DEPTH(M) LEVEL DRY SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 BED MATERIAL PEBBLE SAMPLE: COLOR L-YL-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL (%) 02

REMARKS:

1-38 MARAVILLAS CANYON N.W. 7.5' QUAD COLLECTED SEDIMENT OVER A 60M. INTERVAL STARTING AT BOULDERS AND GOING UPSTREAM IN MID-CHANNEL;

1-51 DONN, L.S.;

1-78 BOB WEST & REGIONAL DIRECTOR & TEXAS PARKS & WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO TEXAS 76901;

029457 TYPE STREAM SEDIMENT REPLICATE SAMPLER CSL AIR TEMP(C) + 0.0 WEATHER -OVERCAST PHASE E MAP NH1309 SITE H422 TIME TAKEN 15/08/02/80 RELIEF MODERATE VEGETATION BRUSH-SPARSE LOCATION: LAT 29.641( 29 38'27") LONG 102.922(102 55'19") CONTAMINANTS NONE STREAM FLOW(M/SEC) WATER: WIDTH(M) DEPTH(M) LEVEL DRY SURFACE GEOL UNIT LKLB RESULTS REQ YES, RELEASED 800708 BED MATERIAL PEBBLE SAMPLE: COLOR L-YL-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL (%) 02

REMARKS:



1-38 MARAVILLAS CANYON N.W. 7.5' QUAD COLLECTED SEDIMENT OVER A 60M. INTERVAL 1.5M. UPSTREAM OF CONFLUENCE AND GOING UPSTREAM IN MID-CHANNEL:

1-51 L.S. SOME VOLCANICS:

1-78 BOB WEST & REGIONAL DIRECTOR & TEXAS PARKS & WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TEXAS 76901:

029458	TYPE	STREAM SEDIMENT	REPLICATE	SAMPLER	CSL	AIR TEMP(C)	+ 15.0	WEATHER	LT WIND-OVERCST				
	PHASE	E	MAP	NH1309	SITE	H423	TIME TAKEN	13/11/02/80	RELIEF	GENTLE	VEGETATION	BRUSH-SPARSE	
	LOCATION:	LAT	29.639	(29 38'20")	LONG	103.012	(103 0'43")		CONTAMINANTS	NONE	STREAM FLOW(M/SEC)		
									WATER:	WIDTH(M)	DEPTH(M)	LEVEL DRY	
	SURFACE GEOL UNIT	UKSE	RESULTS REQ	YES	,RELEASED	800708			BED MATERIAL	SILT	SAMPLE: COLOR	L-YL-BN	ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 02

REMARKS:

1-38 BONE SPRING N.E. 7.5 MIN. QUAD COLLECTED SEDIMENT OVER A 40M. INTERVAL STARTING DUE SOUTH OF WILDLIFE SIGN ON FENCE AT ROAD AND GOING UPSTREAM IN MID-CHANNEL:

1-51 SILTS AND CLAYS:

1-78 BOB WEST & REGIONAL DIRECTOR & TEXAS PARKS & WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO TEXAS 76901:

029459	TYPE	STREAM SEDIMENT	REPLICATE	SAMPLER	CSL	AIR TEMP(C)	+ 17.0	WEATHER	LT WIND-OVERCST				
	PHASE	E	MAP	NH1309	SITE	H424	TIME TAKEN	16/11/02/80	RELIEF	GENTLE	VEGETATION	BRUSH-SPARSE	
	LOCATION:	LAT	29.656	(29 39'21")	LONG	103.104	(103 6'14")		CONTAMINANTS	NONE	STREAM FLOW(M/SEC)		
									WATER:	WIDTH(M)	DEPTH(M)	LEVEL DRY	
	SURFACE GEOL UNIT	QD	RESULTS REQ	NO	,RELEASED	800708			BED MATERIAL	SILT	SAMPLE: COLOR	L-GY-BN	ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 05

REMARKS:

1-38 BONE SPRING NE 7.5' QUAD COLLECTED SEDIMENT OVER A 60M. INTERVAL STARTING IN CLEARED AREA AND GOING UPSTREAM IN MID-CHANNEL:

1-51 DOM. L.S.:

029460	TYPE	STREAM SEDIMENT	REPLICATE	SAMPLER	CSL	AIR TEMP(C)	+ 17.0	WEATHER	LT WIND-PT CLDY				
	PHASE	E	MAP	NH1309	SITE	H425	TIME TAKEN	10/12/02/80	RELIEF	GENTLE	VEGETATION	BRUSH-SPARSE	
	LOCATION:	LAT	29.708	(29 42'28")	LONG	103.001	(103 0'3")		CONTAMINANTS	NONE	STREAM FLOW(M/SEC)		
									WATER:	WIDTH(M)	DEPTH(M)	LEVEL DRY	
	SURFACE GEOL UNIT	UKSE	RESULTS REQ	YES	,RELEASED	800708			BED MATERIAL	SILT	SAMPLE: COLOR	M-GY-BN	ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 BONE SPRING NE 7.5' QUAD COLLECTED SEDIMENT OVER A 45M. INTERVAL STARTING 20M. UPSTREAM OF DRY POND AND GOING UPSTREAM IN MID-CHANNEL:

1-51 SILT AND CLAY SOIL:

1-78 D.W. COLLINS & BOX 363 & MARATHON, TEXAS 79842:

029461 TYPE STREAM SEDIMENT REPLICATE SAMPLER CSL AIR TEMP(C) + 17.5 WEATHER LT WIND-PT CLDY  
 PHASE E MAP NH1309 SITE H426 TIME TAKEN 11/12/02/80 RELIEF GENTLE VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.729 (29 43'44") LONG 102.997 (102 59'49") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT QD RESULTS REQ YES, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL PEBBLE SAMPLE: COLOR L-YL-BN ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 01

## REMARKS:

1-38 MARAVILLAS CANYON N.W. 7.5' QUAD COLLECTED SEDIMENT OVER A 60M. INTERVAL STARTING 20M. UPSTREAM OF FENCE AND GOING  
 UPSTREAM IN MID-CHANNEL:  
 1-51 DOM. L.S.:  
 1-78 D.W. COLLINS & BOX 363 & MARATHON, TEXAS 79842:

029462 TYPE STREAM SEDIMENT REPLICATE SAMPLER CSL AIR TEMP(C) + 18.0 WEATHER LT WIND-QUERCST  
 PHASE E MAP NH1309 SITE H427 TIME TAKEN 12/12/02/80 RELIEF GENTLE VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.720 (29 43'12") LONG 102.991 (102 59'27") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT QD RESULTS REQ YES, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL PEBBLE SAMPLE: COLOR L-YL-BN ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 03

## REMARKS:

1-38 MARAVILLAS CANYON N.W. 7.5' QUAD COLLECTED SEDIMENT OVER A 56M. INTERVAL STARTING AT L.S. OUTCROP IN STREAM BED AND GOING  
 UPSTREAM IN MID-CHANNEL:  
 1-51 L.S.:  
 1-78 D.W. COLLINS & BOX 363 & MARATHON, TEXAS 79842:

029463 TYPE STREAM SEDIMENT REPLICATE SAMPLER CSL AIR TEMP(C) + 18.0 WEATHER LT WIND-QUERCST  
 PHASE E MAP NH1309 SITE H428 TIME TAKEN 13/12/02/80 RELIEF GENTLE VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.718 (29 43' 4") LONG 102.988 (102 59'16") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT LKSE RESULTS REQ NO, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL PEBBLE SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 05

## REMARKS:

1-38 MARAVILLAS CANYON N.W. 7.5' QUAD COLLECTED SEDIMENT OVER A 60M. INTERVAL STARTING AT FORK AND GOING UPSTREAM IN  
 MID-CHANNEL:  
 1-51 L.S.:  
 1-78 D.W. COLLINS & BOX 363 & MARATHON, TEXAS 79842:

029464 TYPE STREAM SEDIMENT REPLICATE SAMPLER CSL AIR TEMP(C) + 18.0 WEATHER LT WIND-QUERCST  
 PHASE E MAP NH1309 SITE H429 TIME TAKEN 13/12/02/80 RELIEF GENTLE VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.716 (29 42'57") LONG 102.987 (102 59'13") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL PEBBLE SAMPLE: COLOR M-GY-BN ODOR NONE



## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL (%) 05

## REMARKS:

1-38 MARAVILLAS CANYON N.W. 7.5' QUAD COLLECTED SEDIMENT OVER A 83M. INTERVAL STARTING AT BEND AND GOING UPSTREAM IN

MID-CHANNEL:

1-51 LIMESTONE:

1-78 D.W. COLLINS & BOX 363 & MARATHON, TEXAS 79842:

029465 TYPE STREAM SEDIMENT REPLICATE SAMPLER CSL AIR TEMP(C) + 18.5 WEATHER LT WIND-PT CLDY  
 PHASE E MAP NH1309 SITE H430 TIME TAKEN 14/12/02/80 RELIEF MODERATE VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.706 (29 42'21") LONG 102.977 (102 58'37") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 BED MATERIAL PEBBLE SAMPLE: COLOR M-GY-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL (%) 05

## REMARKS:

1-38 MARAVILLAS CANYON N.W. 7.5' QUAD COLLECTED SEDIMENT OVER A 60M. INTERVAL STARTING 20M. UPSTREAM OF CAVE ON EAST WALL AND  
 GOING UPSTREAM IN MID-CHANNEL:

1-51 LIMESTONE:

1-78 D.W. COLLINS & BOX 363 & MARATHON, TEXAS 79842:

029466 TYPE STREAM SEDIMENT REPLICATE SAMPLER CSL AIR TEMP(C) + 18.5 WEATHER LT WIND-PT CLDY  
 PHASE E MAP NH1309 SITE H431 TIME TAKEN 15/12/02/80 RELIEF MODERATE VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.688 (29 41'16") LONG 102.973 (102 58'22") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 BED MATERIAL SILT SAMPLE: COLOR M-GY-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL (%) 05

## REMARKS:

1-38 MARAVILLAS CANYON N.W. 7.5' QUAD COLLECTED SEDIMENT OVER A 40M. INTERVAL STARTING 40M. DOWNSTREAM OF CONFLUENCE AND GOING  
 UPSTREAM IN MID-CHANNEL:

1-51 LIMESTONE:

1-78 D.W. COLLINS & BOX 363 & MARATHON, TEXAS 79842:

029467 TYPE STREAM SEDIMENT REPLICATE SAMPLER CSL AIR TEMP(C) + 17.0 WEATHER LT WIND-PT CLDY  
 PHASE E MAP NH1309 SITE H432 TIME TAKEN 10/13/02/80 RELIEF GENTLE VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.723 (29 43'22") LONG 102.954 (102 57'14") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 BED MATERIAL PEBBLE SAMPLE: COLOR L-GY-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL (%) 02

## REMARKS:

1-38 MARAVILLAS CANYON N.W. 7.5' QUAD COLLECTED SEDIMENT OVER A 103M. INTERVAL STARTING AT BAR AT E. BANK AND GOING UPSTREAM IN  
 MID-CHANNEL:

1-51 LIMESTONE;  
1-78 D.W. COLLINS & BOX 363 & MARATHON, TEXAS 79842;

029468 TYPE STREAM SEDIMENT REPLICATE SAMPLER CSL AIR TEMP(C) + 17.0 WEATHER LT WIND-PT CLDY  
PHASE E MAP NH1309 SITE H433 TIME TAKEN 11/13/02/80 RELIEF GENTLE VEGETATION BRUSH-SPARSE  
LOCATION: LAT 29.725 (29 43' 30") LONG 102.951 (102 57' 3") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
SURFACE GEOL UNIT LKSP RESULTS REQ YES, RELEASED 800708 BED MATERIAL PEBBLE SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:  
SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 02

## REMARKS:

1-38 MARAVILLAS CANYON N.W. 7.5' QUAD COLLECTED SEDIMENT OVER A 62M. INTERVAL STARTING AT BEND AND GOING UPSTREAM IN  
MID-CHANNEL;  
1-51 LIMESTONE;  
1-78 D.W. COLLINS & BOX 363 & MARATHON, TEXAS 79842;

029469 TYPE STREAM SEDIMENT REPLICATE SAMPLER CSL AIR TEMP(C) + 17.0 WEATHER LT WIND-PT CLDY  
PHASE E MAP NH1309 SITE H434 TIME TAKEN 12/13/02/80 RELIEF GENTLE VEGETATION BRUSH-SPARSE  
LOCATION: LAT 29.723 (29 43' 22") LONG 102.952 (102 57' 7") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
SURFACE GEOL UNIT LKSP RESULTS REQ YES, RELEASED 800708 BED MATERIAL COBBLE SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:  
SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 02

## REMARKS:

1-38 MARAVILLAS CANYON N.W. 7.5' QUAD COLLECTED SEDIMENT OVER A 62M. INTERVAL STARTING AT MID-BEND AND GOING UPSTREAM IN  
MID-CHANNEL;  
1-51 LIMESTONE;  
1-78 D.W. COLLINS & BOX 363 & MARATHON, TEXAS 79842;

029470 TYPE STREAM SEDIMENT REPLICATE SAMPLER CSL AIR TEMP(C) + 17.5 WEATHER LT WIND-PT CLDY  
PHASE E MAP NH1309 SITE H435 TIME TAKEN 12/13/02/80 RELIEF GENTLE VEGETATION BRUSH-SPARSE  
LOCATION: LAT 29.717 (29 43' 1") LONG 102.953 (102 57' 10") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
SURFACE GEOL UNIT LKSP RESULTS REQ YES, RELEASED 800708 BED MATERIAL SAND SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:  
SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 03

## REMARKS:

1-38 MARAVILLAS CANYON N.W. 7.5' QUAD COLLECTED SEDIMENT OVER A 60M. INTERVAL STARTING AT CLUSTER OF SOTOL IN STREAM AND GOING  
UPSTREAM IN MID-CHANNEL;  
1-51 LIMESTONE;  
1-78 D.W. COLLINS & BOX 363 & MARATHON, TEXAS 79842;

029471 TYPE STREAM SEDIMENT REPLICATE SAMPLER CSL AIR TEMP(C) + 18.0 WEATHER LT WIND-PT CLDY



PHASE E MAP NH1309 SITE H436 TIME TAKEN 13/13/02/80 RELIEF GENTLE VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.716 (29 42'57") LONG 102.952 (102 57' 7") CONTAMINANTS NONE STREAM FLOW (M/SEC)  
 SURFACE GEOL UNIT LKSP RESULTS REQ YES, RELEASED 800708 WATER: WIDTH (M) DEPTH (M) LEVEL DRY  
 BED MATERIAL PEBBLE SAMPLE: COLOR L-GY-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL (%) 05

## REMARKS:

J-38 MARAVILLAS CANYON N.W. 7.5' QUAD COLLECTED SEDIMENT OVER A 40M. INTERVAL STARTING 33M. DOWNSTREAM OF TRIBUTARY ABOVE BANK AND GOING UPSTREAM IN MID-CHANNEL;

J-51 LIMESTONE;

I-78 D.W. COLLINS & BOX 363 & MARATHON, TEXAS 79842;

029472 TYPE STREAM SEDIMENT REPLICATE SAMPLER CSL AIR TEMP (C) + 19.0 WEATHER LT WIND-PT CLDY  
 PHASE E MAP NH1309 SITE H437 TIME TAKEN 14/13/02/80 RELIEF MODERATE VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.708 (29 42'28") LONG 102.962 (102 57'43") CONTAMINANTS NONE STREAM FLOW (M/SEC)  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 WATER: WIDTH (M) DEPTH (M) LEVEL DRY  
 BED MATERIAL PEBBLE SAMPLE: COLOR L-YL-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL (%) 03

## REMARKS:

I-38 MARAVILLAS CANYON N.W. 7.5' QUAD COLLECTED SEDIMENT OVER A 65M. INTERVAL STARTING 50M. DOWNSTREAM OF TRIBUTARY ON WEST BANK AND GOING UPSTREAM IN MID-CHANNEL;

I-51 LIMESTONE;

I-78 D.W. COLLINS & BOX 363 & MARATHON, TEXAS 79842;

029473 TYPE STREAM SEDIMENT REPLICATE SAMPLER CSL AIR TEMP (C) + 19.5 WEATHER LT WIND-PT CLDY  
 PHASE E MAP NH1309 SITE H438 TIME TAKEN 14/13/02/80 RELIEF MODERATE VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.710 (29 42'36") LONG 102.959 (102 57'32") CONTAMINANTS NONE STREAM FLOW (M/SEC)  
 SURFACE GEOL UNIT LKSP RESULTS REQ YES, RELEASED 800708 WATER: WIDTH (M) DEPTH (M) LEVEL DRY  
 BED MATERIAL PEBBLE SAMPLE: COLOR L-GY-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL (%) 02

## REMARKS:

I-38 MARAVILLAS CANYON N.W. 7.5' QUAD COLLECTED SEDIMENT OVER A 60M. INTERVAL STARTING AT TRIBUTARY AND GOING UPSTREAM IN MID-CHANNEL;

J-51 LIMESTONE;

I-78 D.W. COLLINS & BOX 363 & MARATHON, TEXAS 79842;

029474 TYPE STREAM SEDIMENT REPLICATE SAMPLER CSL AIR TEMP (C) + 17.5 WEATHER LT WIND-PT CLDY  
 PHASE E MAP NH1309 SITE H439 TIME TAKEN 10/13/02/80 RELIEF MODERATE VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.632 (29 37'55") LONG 102.882 (102 52'55") CONTAMINANTS NONE STREAM FLOW (M/SEC)  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 WATER: WIDTH (M) DEPTH (M) LEVEL DRY  
 BED MATERIAL PEBBLE SAMPLE: COLOR L-YL-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL (%) 03

## REMARKS:

1-38 MARAVILLAS CANYON N.W. 7.5' QUAD COLLECTED SEDIMENT OVER A 61M INTERVAL STARTING 35M DOWNSTREAM OF BEND AND GOING UPSTREAM IN MID-CHANNEL;

1-51 LIMESTONE;

1-78 BOB WEST & REGIONAL DIRECTOR & TEXAS PARKS & WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO TEXAS 76901;

029475 TYPE STREAM SEDIMENT REPLICATE SAMPLER CSL AIR TEMP(C) + 19.5 WEATHER LT WIND-CLEAR  
 PHASE E MAP NH1309 SITE H440 TIME TAKEN 12/14/02/80 RELIEF HIGH VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.669 (29 40' 8") LONG 102.882 (102 52' 55") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES ,RELEASED 800708 BED MATERIAL BOULDER SAMPLE: COLOR L-GY-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL (%) 05

## REMARKS:

1-38 MARAVILLAS CANYON N.W. 7.5' QUAD COLLECTED SEDIMENT OVER A 62M INTERVAL STARTING AT PINNACLE ON N. WALL AND GOING UPSTREAM IN MID-CHANNEL;

1-51 LIMESTONE;

1-78 BOB WEST & REGIONAL DIRECTOR & TEXAS PARKS & WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO TEXAS 76901;

029476 TYPE OTHER REPLICATE SAMPLER CSL AIR TEMP(C) WEATHER  
 PHASE R MAP NH1309 SITE H441 TIME TAKEN 12/14/02/80 RELIEF VEGETATION  
 LOCATION: LAT 29.670 (29 40' 12") LONG 102.883 (102 52' 58") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL  
 SURFACE GEOL UNIT LKSE RESULTS REQ NO ,RELEASED 800708 BED MATERIAL SAMPLE: COLOR U-GY-WH ODOR

## REMARKS:

1-38 MARAVILLAS CANYON N.W. 7.5' QUAD SCINTILLOMETER READING ON MASSIVE CALCITE FRACTURE FILLING LOCATED ON MASSIVE CALCITE FRACTURE FILLING LOCATED ON N. WALL 89M UPSTREAM FROM CONFLUENCE;

029477 TYPE STREAM SEDIMENT REPLICATE SAMPLER CSL AIR TEMP(C) + 20.0 WEATHER LT WIND-CLEAR  
 PHASE E MAP NH1309 SITE H442 TIME TAKEN 13/14/02/80 RELIEF HIGH VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.672 (29 40' 19") LONG 102.884 (102 53' 2") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES ,RELEASED 800708 BED MATERIAL BOULDER SAMPLE: COLOR L-GY-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL (%) 05

## REMARKS:

1-38 MARAVILLAS CANYON N.W. 7.5' QUAD COLLECTED SEDIMENT OVER A 45M INTERVAL STARTING 20M DOWNSTREAM OF TRIBUTARY AND GOING UPSTREAM IN MID-CHANNEL AND BOTH BANKS;

1-51 LIMESTONE;

1-78 BOB WEST & REGIONAL DIRECTOR & TEXAS PARKS & WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO TEXAS 76901;

029478 TYPE STREAM SEDIMENT REPLICATE SAMPLER CSL AIR TEMP(C) + 20.5 WEATHER LT WIND-PT CLDY



PHASE E MAP NH1309 SITE H443 TIME TAKEN 14/14/02/80  
 LOCATION: LAT 29.679 (29 40'44") LONG 102.882 (102 52'55")

RELIEF HIGH VEGETATION BRUSH-SPARSE  
 CONTAMINANTS NONE STREAM FLOW(M/SEC)

SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708

WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL PEBBLE SAMPLE: COLOR L-GY-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL (%) 05

## REMARKS:

J-38 MARAVILLAS CANYON N.W. 7.5' QUAD COLLECTED SEDIMENT OVER A 52M INTERVAL STARTING 23M UPSTREAM OF NATURAL BRIDGE AND GOING UPSTREAM IN MID-CHANNEL;

J-51 LIMESTONE;

I-78 BOB WEST & REGIONAL DIRECTOR & TEXAS PARKS & WILDLIFE & 3407 S. CHABOURNE & SAN ANGELO, TEXAS 76901;

029479 TYPE OTHER REPLICATE SAMPLER CSL  
 PHASE R MAP NH1309 SITE H479 TIME TAKEN 14/14/02/80  
 LOCATION: LAT 29.678 (29 40'40") LONG 102.882 (102 52'55")

AIR TEMP(C) WEATHER  
 RELIEF VEGETATION  
 CONTAMINANTS STREAM FLOW(M/SEC)

SURFACE GEOL UNIT LKSE RESULTS REQ NO, RELEASED 800708

WATER: WIDTH(M) DEPTH(M) LEVEL  
 BED MATERIAL SAMPLE: COLOR M-GY-BN ODOR

## REMARKS:

J-38 MARAVILLAS CANYON N.W. 7.5' QUAD SCINTILLOMETER READING ON GY-BN LIMESTONE OUTCROP ON CUT BANK OF EAST HALL;

029480 TYPE OTHER REPLICATE SAMPLER CSL  
 PHASE R MAP NH1309 SITE H445 TIME TAKEN 15/14/02/80  
 LOCATION: LAT 29.645 (29 38'42") LONG 102.876 (102 52'33")

AIR TEMP(C) WEATHER LT WIND-PT CLDY  
 RELIEF HIGH VEGETATION BRUSH-SPARSE  
 CONTAMINANTS STREAM FLOW(M/SEC)

SURFACE GEOL UNIT LKSE RESULTS REQ NO, RELEASED 800708

WATER: WIDTH(M) DEPTH(M) LEVEL  
 BED MATERIAL SAMPLE: COLOR M-GY-BN ODOR NONE

## REMARKS:

I-38 MARAVILLAS CANYON N.W. 7.5' QUAD SCINTILLOMETER READING ON GY-BN MASSIVE LIMESTONE OUTCROP 2M E. OF ROAD AND N. OF BEND;

029481 TYPE STREAM SEDIMENT REPLICATE SAMPLER CSL  
 PHASE E MAP NH1309 SITE H446 TIME TAKEN 15/14/02/80  
 LOCATION: LAT 29.633 (29 37'58") LONG 102.901 (102 54' 3")

AIR TEMP(C) + 21.0 WEATHER LT WIND-CLEAR  
 RELIEF MODERATE VEGETATION BRUSH-SPARSE  
 CONTAMINANTS NONE STREAM FLOW(M/SEC)

SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708

WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL PEBBLE SAMPLE: COLOR L-GY-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL (%) 05

## REMARKS:

I-38 MARAVILLAS CANYON N.W. 7.5' QUAD COLLECTED SEDIMENT OVER A 52M INTERVAL STARTING 45M UPSTREAM OF TRIBUTARY AND GOING UPSTREAM IN MID-CHANNEL;

I-51 LIMESTONE;

J-78 BOB WEST & REGIONAL DIRECTOR & TEXAS PARKS & WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TEXAS 76901;

029482 TYPE STREAM SEDIMENT REPLICATE SAMPLER CSL  
 PHASE E MAP NH1309 SITE H447 TIME TAKEN 10/19/02/80

AIR TEMP(C) + 21.5 WEATHER LT WIND-PT CLDY  
 RELIEF GENTLE VEGETATION BRUSH-SPARSE

LOCATION: LAT 29.731 (29 43' 51") LONG 102.896 (102 53' 45")

CONTAMINANTS NONE

STREAM FLOW (M/SEC)

SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708

WATER: WIDTH (M)

DEPTH (M)

LEVEL DRY

BED MATERIAL PEBBLE

SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY

SAMPLE TREATMENT NONE

NUMBER OF GRABS 20

ORGANIC MATERIAL (%) 03

REMARKS:

1-38 MARAVILLAS CANYON N.W. 7.5' QUAD COLLECTED SEDIMENT OVER A 70M INTERVAL STARTING 160M UPSTREAM OF CONFLUENCE AND GOING UPSTREAM IN MID-CHANNEL:

1-51 DOM. L. S.:

J-78 HERMAN MAYHEW & 10539 BERRY KNOLL & DALLAS TEXAS 75230:

029483 TYPE STREAM SEDIMENT

REPLICATE

SAMPLER CSL

AIR TEMP (C) + 21.5

WEATHER LT WIND-PT CLDY

PHASE E MAP NH1309 SITE H448 TIME TAKEN 10/19/02/80

RELIEF GENTLE

VEGETATION BRUSH-SPARSE

LOCATION: LAT 29.727 (29 43' 37") LONG 102.898 (102 53' 52")

CONTAMINANTS NONE

STREAM FLOW (M/SEC)

SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708

WATER: WIDTH (M)

DEPTH (M)

LEVEL DRY

BED MATERIAL SAND

SAMPLE: COLOR D-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY

SAMPLE TREATMENT NONE

NUMBER OF GRABS 20

ORGANIC MATERIAL (%) 01

REMARKS:

1-38 MARAVILLAS CANYON N.W. 7.5' QUAD COLLECTED SEDIMENT OVER A 40M INTERVAL STARTING 20M UPSTREAM OF ROAD AND GOING UPSTREAM IN MID-CHANNEL:

J-51 DOM. VOLCANIC:

J-78 HERMAN MAYHEW & 10539 BERRY KNOLL & DALLAS, TEXAS 75230:

029484 TYPE STREAM SEDIMENT

REPLICATE

SAMPLER CSL

AIR TEMP (C) + 21.5

WEATHER LT WIND-PT CLDY

PHASE E MAP NH1309 SITE H449 TIME TAKEN 11/19/02/80

RELIEF GENTLE

VEGETATION BRUSH-SPARSE

LOCATION: LAT 29.720 (29 43' 12") LONG 102.898 (102 53' 52")

CONTAMINANTS NONE

STREAM FLOW (M/SEC) STAG

SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708

WATER: WIDTH (M) 1.20

DEPTH (M) 0.10

LEVEL POOLS

BED MATERIAL PEBBLE

SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY

SAMPLE TREATMENT NONE

NUMBER OF GRABS 20

ORGANIC MATERIAL (%) 02

REMARKS:

1-38 MARAVILLAS CANYON N.W. 7.5' QUAD COLLECTED SEDIMENT OVER A 65M INTERVAL STARTING 25M UPSTREAM OF ROAD AND GOING UPSTREAM IN MID-CHANNEL:

1-51 LIMESTONE:

J-78 HERMAN MAYHEW & 10539 BERRY KNOLL & DALLAS TEXAS 75230:

029485 TYPE STREAM SEDIMENT

REPLICATE

SAMPLER CSL

AIR TEMP (C) + 22.0

WEATHER -PT CLDY

PHASE E MAP NH1309 SITE H450 TIME TAKEN 11/19/02/80

RELIEF GENTLE

VEGETATION BRUSH-SPARSE

LOCATION: LAT 29.709 (29 42' 32") LONG 102.895 (102 53' 42")

CONTAMINANTS NONE

STREAM FLOW (M/SEC)

SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708

WATER: WIDTH (M)

DEPTH (M)

LEVEL DRY

BED MATERIAL PEBBLE

SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY

SAMPLE TREATMENT NONE

NUMBER OF GRABS 20

ORGANIC MATERIAL (%) 02



## REMARKS:

1-38 MARAVILLAS CANYON N.W. 7.5' QUAD COLLECTED SEDIMENT OVER A 110M INTERVAL STARTING 25M DOWNSTREAM OF TRIBUTARY ON S BANK AND GOING UPSTREAM IN MID-CHANNEL:

1-51 L. S.:

1-78 HERMAN MAYHEW & 10539 BERRY KNOLL & DALLAS, TEXAS 75230:

029486	TYPE	STREAM SEDIMENT	REPLICATE	SAMPLER CSL	AIR TEMP(C) + 23.0	WEATHER -PT CLDY		
	PHASE	E	MAP NH1309	SITE H451	TIME TAKEN 12/19/02/80	RELIEF GENTLE	VEGETATION BRUSH-SPARSE	
	LOCATION:	LAT 29.725 (29 43' 30")	LONG 102.901 (102 54' 3")			CONTAMINANTS NONE	STREAM FLOW(M/SEC)	
						WATER: WIDTH(M)	DEPTH(M)	LEVEL DRY
	SURFACE GEOL UNIT	LKSE	RESULTS REQ YES	RELEASED 800708	BED MATERIAL PEBBLE	SAMPLE: COLOR L-GY-BN	ODOR NONE	

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL (%) 01

## REMARKS:

1-38 MARAVILLAS CANYON N.W. 7.5' QUAD COLLECTED SEDIMENT OVER A 73M INTERVAL STARTING 30M UPSTREAM OF ROAD AND GOING UPSTREAM IN MID-CHANNEL:

1-51 DOM. L. S.:

1-78 HERMAN MAYHEW & 10539 BERRY KNOLL & DALLAS, TEXAS 75230:

029487	TYPE	STREAM SEDIMENT	REPLICATE	SAMPLER CSL	AIR TEMP(C) + 23.5	WEATHER -PT CLDY		
	PHASE	E	MAP NH1309	SITE H452	TIME TAKEN 13/19/02/80	RELIEF GENTLE	VEGETATION BRUSH-SPARSE	
	LOCATION:	LAT 29.746 (29 44' 45")	LONG 102.905 (102 54' 18")			CONTAMINANTS NONE	STREAM FLOW(M/SEC)	
						WATER: WIDTH(M)	DEPTH(M)	LEVEL DRY
	SURFACE GEOL UNIT	LKSP	RESULTS REQ YES	RELEASED 800708	BED MATERIAL PEBBLE	SAMPLE: COLOR L-GY-BN	ODOR NONE	

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL (%) 02

## REMARKS:

1-38 MARAVILLAS CANYON N.W. 7.5' QUAD COLLECTED SEDIMENT OVER A 73M INTERVAL STARTING 46M UPSTREAM OF JANK AND GOING UPSTREAM IN MID-CHANNEL:

1-51 L. S.:

1-78 HERMAN MAYHEW & 10539 BERRY KNOLL & DALLAS, TEXAS 75230:

029488	TYPE	STREAM SEDIMENT	REPLICATE	SAMPLER CSL	AIR TEMP(C) + 29.0	WEATHER -PT CLDY		
	PHASE	E	MAP NH1309	SITE H453	TIME TAKEN 14/19/02/80	RELIEF MODERATE	VEGETATION BRUSH-SPARSE	
	LOCATION:	LAT 29.688 (29 41' 16")	LONG 102.922 (102 55' 19")			CONTAMINANTS NONE	STREAM FLOW(M/SEC)	
						WATER: WIDTH(M)	DEPTH(M)	LEVEL DRY
	SURFACE GEOL UNIT	LKSE	RESULTS REQ YES	RELEASED 800708	BED MATERIAL PEBBLE	SAMPLE: COLOR L-GY-BN	ODOR NONE	

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL (%) 03

## REMARKS:

1-38 MARAVILLAS CANYON N.W. 7.5' QUAD COLLECTED SEDIMENT OVER A 20M INTERVAL STARTING 20M DOWNSTREAM OF CONFLUENCE AND GOING UPSTREAM ON BOTH BANKS:

1-51 L. S.:

1-78 HERMAN MAYHEW & 10539 BERRY KNOLL & DALLAS TEXAS 75230:

029489 TYPE STREAM SEDIMENT REPLICATE SAMPLER CSL AIR TEMP(C) + 29.0 WEATHER -PT CLDY  
 PHASE E MAP NH1309 SITE H454 TIME TAKEN 14/19/02/80 RELIEF MODERATE VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.689 (29 41'20") LONG 102.921 (102 55'15") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL PEBBLE SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 02

## REMARKS:

1-38 MARAVILLAS CANYON N.W. 7.5' QUAD COLLECTED SEDIMENT OVER AN 87M INTERVAL STARTING 50M UPSTREAM OF CONFLUENCE AND GOING  
 UPSTREAM IN MID-CHANNEL:  
 1-51 DOM. L. S. SOME VOLC.:  
 1-78 HERMAN MAYHEW & 10539 BERRY KNOLL & DALLAS TEXAS 75230:

029490 TYPE STREAM SEDIMENT REPLICATE SAMPLER CSL AIR TEMP(C) + 30.0 WEATHER LT WIND-PT CLDY  
 PHASE E MAP NH1309 SITE H456 TIME TAKEN 15/19/02/80 RELIEF MODERATE VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.674 (29 40'26") LONG 102.918 (102 55' 4") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL SILT SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 02

## REMARKS:

1-38 MARAVILLAS CANYON N.W. 7.5' QUAD COLLECTED SEDIMENT OVER A 40M INTERVAL STARTING 20M UPSTREAM OF ROAD AND GOING UPSTREAM  
 IN MID-CHANNEL:  
 1-51 DOM. L. S.:  
 1-78 HERMAN MAYHEW & 10539 BERRY KNOLL & DALLAS TEXAS 75230:

029491 TYPE STREAM SEDIMENT REPLICATE SAMPLER CSL AIR TEMP(C) + 30.0 WEATHER LT WIND-PT CLDY  
 PHASE E MAP NH1309 SITE H457 TIME TAKEN 17/19/02/80 RELIEF MODERATE VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.745 (29 44'42") LONG 102.935 (102 56' 6") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT LKSP RESULTS REQ YES, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL PEBBLE SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 02

## REMARKS:

1-38 MARAVILLAS CANYON N.W. 7.5' QUAD COLLECTED SEDIMENT OVER A 60M INTERVAL STARTING AT FLAT WASH AND GOING UPSTREAM IN  
 MID-CHANNEL:  
 1-51 L. S.:  
 1-78 HERMAN MAYHEW & 10539 BERRY KNOLL & DALLAS TEXAS 75230:

029492 TYPE STREAM SEDIMENT REPLICATE SAMPLER CSL AIR TEMP(C) + 27.5 WEATHER LT WIND-PT CLDY  
 PHASE E MAP NH1309 SITE H458 TIME TAKEN 14/20/02/80 RELIEF MODERATE VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.553 (29 33' 10") LONG 102.858 (102 51' 28") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT UKSE RESULTS REQ YES, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL SAND SAMPLE: COLOR L-GY-BN ODOR NONE



SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 02

REMARKS:

1-38 MARAVILLAS CANYON SE 7.5' QUAD COLLECTED SEDIMENT OVER A 75M INTERVAL STARTING 81M UPSTREAM OF CONFLUENCE AND GOING UPSTREAM IN MID-CHANNEL;  
 1-51 DOM. L.S. SOME VOLC.;  
 1-78 BOB WEST & REGIONAL DIRECTOR & TEXAS PARKS & WILDLIFE & 3407 S CHADBOURNE & SAN ANGELO TEXAS 76901;

029493 TYPE STREAM SEDIMENT REPLICATE SAMPLER CSL AIR TEMP(C) + 31.5 WEATHER -CLEAR  
 PHASE E MAP NH1309 SITE H459 TIME TAKEN 16/20/02/80 RELIEF MODERATE VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.548( 29 32'49") LONG 102.871(102 52'15") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 SURFACE GEOL UNIT UKSE RESULTS REQ YES ,RELEASED 800708 BED MATERIAL SAND SAMPLE: COLOR L-GY-BN QDOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 02

REMARKS:

1-38 MARAVILLAS CANYON SE 7.5' QUAD COLLECTED SEDIMENT OVER A 40M INTERVAL STARTING 110M UPSTREAM OF CONFLUENCE AND GOING UPSTREAM IN MID-CHANNEL;  
 1-51 DOM. L.S. SUBSTANTIAL VOLCANIC FRACTION;  
 1-78 BOB WEST & REGIONAL DIRECTOR & TEXAS PARKS & WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TEXAS 76901;

029495 TYPE OTHER REPLICATE SAMPLER CSL AIR TEMP(C) WEATHER  
 PHASE R MAP NH1309 SITE H460 TIME TAKEN 14/07/02/80 RELIEF VEGETATION  
 LOCATION: LAT 29.648( 29 38'52") LONG 102.953(102 57'10") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL  
 SURFACE GEOL UNIT LKSE RESULTS REQ NO ,RELEASED 800708 BED MATERIAL SAMPLE: COLOR M-OR-BN ODOR

REMARKS:

1-38 MARAVILLAS CANYON N.W. 7.5' QUAD SCINTILLOMETER READING ON GROUND SURFACE 1M. DUE EAST OF MAIN PIT;

029496 TYPE OTHER REPLICATE SAMPLER CSL AIR TEMP(C) WEATHER  
 PHASE R MAP NH1309 SITE H460 TIME TAKEN 14/07/02/80 RELIEF VEGETATION  
 LOCATION: LAT 29.648( 29 38'52") LONG 102.953(102 57'10") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL  
 SURFACE GEOL UNIT LKSE RESULTS REQ NO ,RELEASED 800708 BED MATERIAL SAMPLE: COLOR M-OR-BN ODOR

REMARKS:

1-38 MARAVILLAS CANYON N.W. 7.5' QUAD SCINTILLOMETER READING ON GROUND SURFACE 1M. NE OF MAIN PROSPECT PIT;

029497 TYPE OTHER REPLICATE SAMPLER CSL AIR TEMP(C) WEATHER  
 PHASE R MAP NH1309 SITE H460 TIME TAKEN 14/07/02/80 RELIEF VEGETATION  
 LOCATION: LAT 29.648( 29 38'52") LONG 102.953(102 57'10") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL  
 SURFACE GEOL UNIT LKSE RESULTS REQ NO ,RELEASED 800708 BED MATERIAL SAMPLE: COLOR M-OR-BN ODOR

REMARKS:

1-38 MARAVILLAS CANYON N.W. 7.5' QUAD SCINTILLOMETER READING ON TAILINGS PILE FROM PROSPECT PIT:

029498 TYPE OTHER REPLICATE SAMPLER CSL AIR TEMP(C) WEATHER  
 PHASE R MAP NH1309 SITE H460 TIME TAKEN 14/07/02/80 RELIEF VEGETATION  
 LOCATION: LAT 29.648 (29 38'52") LONG 102.953 (102 57'10") CONTAMINANTS STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL  
 SURFACE GEOL UNIT LKSE RESULTS REQ NO ,RELEASED 800708 BED MATERIAL SAMPLE: COLOR L-GY-BN ODOR

## REMARKS:

1-38 MARAVILLAS CANYON N.W. 7.5' QUAD SCINTILLOMETER READING ON GROUND SURFACE 20M. DUE EAST OF MAIN PROSPECT, READING TAKEN 1M. NORTH OF SMALL PIT:

029499 TYPE STREAM SEDIMENT REPLICATE SAMPLER SAR AIR TEMP(C) + 8.5 WEATHER U WINDY-RAINY  
 PHASE E MAP NH1309 SITE H464 TIME TAKEN 09/08/02/80 RELIEF MODERATE VEGETATION GRASS-MODERATE  
 LOCATION: LAT 29.613 (29 36'46") LONG 103.055 (103 3'18") CONTAMINANTS OTHER STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 SURFACE GEOL UNIT QD RESULTS REQ YES ,RELEASED 800708 BED MATERIAL SILT SAMPLE: COLOR M-BN-GY ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 10

## REMARKS:

1-38 DAGGER FLAT QUAD; SAMPLE COLLECTED OVER 100M DISTANCE AT IRREGULAR INTERVALS GOING UPSTREAM STARTING 20M ABOVE ROAD;  
 1-51 FINE SILT WITH FEW FRAGS OF LIMESTONE;  
 1-60 STREAM BED GROWN OVER WITH BRUSH AND GRASS;  
 1-78 BOB WEST, REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901:

029500 TYPE STREAM SEDIMENT REPLICATE SAMPLER SAR AIR TEMP(C) + 9.0 WEATHER U WINDY-RAINY  
 PHASE E MAP NH1309 SITE H465 TIME TAKEN 10/08/02/80 RELIEF MODERATE VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.609 (29 36'32") LONG 103.046 (103 2'45") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 SURFACE GEOL UNIT QD RESULTS REQ YES ,RELEASED 800708 BED MATERIAL COBBLE SAMPLE: COLOR L-BN-GY ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 01

## REMARKS:

1-38 DAGGER FLAT QUAD; SAMPLE COLLECTED OVER 80M DISTANCE AT IRREGULAR INTERVALS GOING UPSTREAM STARTING 20M ABOVE CONFLUENCE;  
 1-51 MED. SAND TO COARSE PEBBLES CONSISTING OF LIMESTONE AND FEW TUFFACEOUS AND AGATE FRAGS;  
 1-78 BOB WEST, REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901:

029501 TYPE STREAM SEDIMENT REPLICATE SAMPLER SAR AIR TEMP(C) + 7.5 WEATHER U WINDY-RAINY  
 PHASE E MAP NH1309 SITE H466 TIME TAKEN 11/08/02/80 RELIEF MODERATE VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.604 (29 36'14") LONG 103.046 (103 2'45") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 SURFACE GEOL UNIT QD RESULTS REQ YES ,RELEASED 800708 BED MATERIAL SAND SAMPLE: COLOR L-OR-GY ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 01



## REMARKS:

1-38 DAGGER FLAT QUAD; SAMPLE TAKEN OVER 60M DISTANCE AT 3M INTERVALS GOING UPSTREAM STARTING 20M ABOVE HILL;  
 1-51 FINE SILT TO COARSE SAND AND SOME PEBBLES CONSISTING OF LIMESTONE FRAGS;  
 1-78 BOB WEST, REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029502	TYPE	STREAM SEDIMENT	REPLICATE	SAMPLER	SAR	AIR TEMP(C)	+ 7.5	WEATHER	U WINDY-RAINY					
	PHASE	E	MAP	NH1309	SITE	H467	TIME TAKEN	11/08/02/80	RELIEF	MODERATE	VEGETATION	BRUSH-SPARSE		
	LOCATION:	LAT	29.604 (29 36' 14")	LONG	103.049 (103 2' 56")	CONTAMINANTS	NONE	STREAM FLOW(M/SEC)		DEPTH(M)		LEVEL	DRY	
	SURFACE GEOL UNIT	QD	RESULTS REQ	YES	RELEASED	800708	WATER: WIDTH(M)		BED MATERIAL	PEBBLE	SAMPLE: COLOR	L-BN-GY	QDQR	NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION	DRY	SAMPLE TREATMENT	NONE	NUMBER OF GRABS	20	ORGANIC MATERIAL(%)	01
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## REMARKS:

1-38 DAGGER FLAT QUAD; SAMPLE TAKEN OVER 60M DISTANCE AT 3M INTERVALS GOING UPSTREAM STARTING 20M PAST LARGE STEPPED LIMESTONE OUTCROP IN STREAM BED;  
 1-51 FINE-GRAINED FRACTION MAINLY DARK FRAGS; COARSE FRACTION IS LIMESTONE;  
 1-78 BOB WEST, REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029503	TYPE	WELL WATER	REPLICATE	SAMPLER	SAR	AIR TEMP(C)	+ 9.5	WEATHER	U WINDY-RAINY					
	PHASE	E	MAP	NH1309	SITE	H468	TIME TAKEN	12/08/02/80	RELIEF	MODERATE	VEGETATION	BRUSH-SPARSE		
	LOCATION:	LAT	29.605 (29 36' 18")	LONG	103.042 (103 2' 31")	CONTAMINANTS	OTHER	STREAM FLOW(M/SEC)		DEPTH(M)		LEVEL	DRY	
	SURFACE GEOL UNIT	QD	RESULTS REQ	YES	RELEASED	800708	WATER: WIDTH(M)		BED MATERIAL		SAMPLE: COLOR	-CL	QDQR	NONE

## GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	710	DISSOLVED OXYGEN(PPM)	5.8
WATER TEMP(C)	+ 17.7	VISIBILITY(M)	CLEAR	PH	6.8
TOTAL ALKALINITY(PPM)	305	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	300
APPEARANCE	CLEAR	DISCHARGE(L/M)	0.50	SOURCE	
PRODUCING HORIZON	UNKN	CONFIDENCE			

## WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	WIND	CASING	STEEL	PIPE COMPOSITION	GALVANIZED
METERS FROM HEAD	1	WITH RESPECT TO PRESSURE TANK	NONE	USE	STOCK	PUMPING FREQUENCY	CONSTANT
DEPTH TO PROD HORIZON(M)	30	CONFIDENCE OF PRODUCING DEPTH	POSSIBLE	SOURCE OF PRODUCING INFORMATION		GEOL. INFERENCE	
WELL DEPTH(M)	30	CONFIDENCE OF WELL DEPTH	POSSIBLE	SOURCE OF DEPTH INFORMATION		GEOL. INFERENCE	

## REMARKS:

1-38 DAGGER FLAT QUAD; WELL LOCATED 20M S OF ABANDONED HOUSE; SAMPLE TAKEN FROM LEAK IN PIPE RUNNING OUT OF WELL HEAD;  
 1-60 LEAK FLOWS INTO POOL OF WATER SO SAMPLE IS PARTIALLY TOTALLY FRESH AND SOME POOL WATER; POOL IS EPHEMERAL, THOUGH;  
 1-78 BOB WEST, REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029504	TYPE	STREAM SEDIMENT	REPLICATE	SAMPLER	SAR	AIR TEMP(C)	+ 9.0	WEATHER	U WINDY-RAINY					
	PHASE	E	MAP	NH1309	SITE	H469	TIME TAKEN	14/08/02/80	RELIEF	MODERATE	VEGETATION	BRUSH-SPARSE		
	LOCATION:	LAT	29.574 (29 34' 26")	LONG	103.038 (103 2' 16")	CONTAMINANTS	NONE	STREAM FLOW(M/SEC)		DEPTH(M)		LEVEL	DRY	
	SURFACE GEOL UNIT	QD	RESULTS REQ	YES	RELEASED	800708	WATER: WIDTH(M)		BED MATERIAL	PEBBLE	SAMPLE: COLOR	L-BN-GY	QDQR	NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION	DRY	SAMPLE TREATMENT	NONE	NUMBER OF GRABS	20	ORGANIC MATERIAL(%)	01
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## REMARKS:

1-38 DAGGER FLAT QUAD; SAMPLE TAKEN OVER 60M DISTANCE AT 3M INTERVALS GOING UPSTREAM STARTING 50M S OF BEND IN ROAD;

1-51 FINE SILT TO COARSE PEBBLES CONSISTING OF LIMESTONE FRAGS;

J-78 BOB WEST, REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029505	TYPE	STREAM SEDIMENT	REPLICATE	SAMPLER SAR	AIR TEMP(C) + 20.5	WEATHER	LT	WIND-PT	CLDY
	PHASE	E	MAP NH1309	SITE H470	TIME TAKEN 09/11/02/80	RELIEF	HIGH	VEGETATION	BRUSH-SPARSE
	LOCATION:	LAT 29.585 (29 35' 6")	LONG 102.790 (102 47' 24")		CONTAMINANTS	NONE		STREAM FLOW(M/SEC)	
					WATER: WIDTH(M)			DEPTH(M)	LEVEL DRY
	SURFACE GEOL UNIT	LKT	RESULTS REQ	YES	RELEASED	800708	BED MATERIAL	PEBBLE	SAMPLE: COLOR L-YL-BN
									ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 01

## REMARKS:

J-38 MARAVILLAS CANYON SE QUAD; SAMPLE TAKEN OVER 60M DISTANCE AT 3M INTERVALS GOING UPSTREAM STARTING 100M ABOVE CONFLUENCE;

1-51 FINE SAND TO COARSE PEBBLES CONSISTING OF VARIOUS COLORED LIMESTONE FRAGS;

J-78 BOB WEST, REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029506	TYPE	STREAM SEDIMENT	REPLICATE	SAMPLER SAR	AIR TEMP(C) + 22.5	WEATHER	LT	WIND-PT	CLDY
	PHASE	E	MAP NH1309	SITE H471	TIME TAKEN 10/11/02/80	RELIEF	HIGH	VEGETATION	BRUSH-SPARSE
	LOCATION:	LAT 29.591 (29 35' 27")	LONG 102.800 (102 48' 0")		CONTAMINANTS	NONE		STREAM FLOW(M/SEC)	
					WATER: WIDTH(M)			DEPTH(M)	LEVEL DRY
	SURFACE GEOL UNIT	LKSP	RESULTS REQ	YES	RELEASED	800708	BED MATERIAL	SAND	SAMPLE: COLOR L-BN-GY
									ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 01

## REMARKS:

J-38 MARAVILLAS CANYON SE QUAD; SAMPLE TAKEN OVER 60M DISTANCE AT 3M INTERVALS GOING UPSTREAM STARTING 20M ABOVE CONFLUENCE;

1-51 FINE SAND TO COARSE PEBBLES CONSISTING OF LIMESTONE FRAGS OF VARIOUS COLORS;

J-78 BOB WEST, REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029507	TYPE	STREAM SEDIMENT	REPLICATE	SAMPLER SAR	AIR TEMP(C) + 24.0	WEATHER	LT	WIND-PT	CLDY
	PHASE	E	MAP NH1309	SITE H472	TIME TAKEN 11/11/02/80	RELIEF	HIGH	VEGETATION	BRUSH-SPARSE
	LOCATION:	LAT 29.591 (29 35' 27")	LONG 102.801 (102 48' 3")		CONTAMINANTS	NONE		STREAM FLOW(M/SEC)	
					WATER: WIDTH(M)			DEPTH(M)	LEVEL DRY
	SURFACE GEOL UNIT	LKSP	RESULTS REQ	YES	RELEASED	800708	BED MATERIAL	PEBBLE	SAMPLE: COLOR L-YL-GY
									ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 01

## REMARKS:

J-38 MARAVILLAS CANYON SE QUAD; SAMPLE TAKEN OVER 60M DISTANCE AT 3M INTERVALS GOING UPSTREAM STARTING 20M ABOVE CONFLUENCE;

1-51 MED. SAND TO COARSE PEBBLES CONSISTING OF LIMESTONE FRAGS WHICH ARE VARI-COLORED;

J-78 BOB WEST, REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029508	TYPE	OTHER	REPLICATE	SAMPLER SAR	AIR TEMP(C) + 24.0	WEATHER	LT	WIND-PT	CLDY
	PHASE	R	MAP NH1309	SITE H473	TIME TAKEN 12/11/02/80	RELIEF	HIGH	VEGETATION	BRUSH-SPARSE



STILLWELL

10-31-80

PAGE 092

LOCATION: LAT 29.591 (29 35' 27") LONG 102.801 (102 48' 3")

CONTAMINANTS NONE

STREAM FLOW(M/SEC)

SURFACE GEOL UNIT LLKT RESULTS REQ YES ,RELEASED 800708

WATER: WIDTH(M)  
BED MATERIAL

DEPTH(M) LEVEL  
SAMPLE: COLOR M-BN-GY ODOR NONE

REMARKS:

J-38 MARAVILLAS CANYON SE QUAD; READING TAKEN ON PITTED, FOSSILIFEROUS LIMESTONE WITH IRON STAINING IN FRACTURES; LOCATION IS ON NE SIDE OF STREAM WHERE OUTCROP FORMS STREAM BED;  
I-78 BOB WEST, REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029509 TYPE OTHER REPLICATE SAMPLER SAR  
PHASE R MAP NH1309 SITE H474 TIME TAKEN 13/11/02/80  
LOCATION: LAT 29.578 (29 34' 40") LONG 102.787 (102 47' 13")

AIR TEMP(C) + 25.5  
RELIEF HIGH  
CONTAMINANTS NONE

WEATHER LT WIND-PT CLDY  
VEGETATION BRUSH-SPARSE  
STREAM FLOW(M/SEC)

SURFACE GEOL UNIT LLKT RESULTS REQ YES ,RELEASED 800708

WATER: WIDTH(M)  
BED MATERIAL

DEPTH(M) LEVEL  
SAMPLE: COLOR M-GY-BN ODOR NONE

REMARKS:

I-38 MARAVILLAS CANYON SE QUAD; READING TAKEN ON PITTED, IRON-STAINED LIMESTONE WHICH FORMS STREAM BED 75M NW OF END OF ROAD;  
I-78 BOB WEST, REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029510 TYPE STREAM SEDIMENT REPLICATE SAMPLER SAR  
PHASE E MAP NH1309 SITE H475 TIME TAKEN 14/11/02/80  
LOCATION: LAT 29.577 (29 34' 37") LONG 102.779 (102 46' 44")

AIR TEMP(C) + 26.0  
RELIEF MODERATE  
CONTAMINANTS NONE

WEATHER LT WIND-PT CLDY  
VEGETATION BRUSH-SPARSE  
STREAM FLOW(M/SEC)

SURFACE GEOL UNIT LKT RESULTS REQ YES ,RELEASED 800708

WATER: WIDTH(M)  
BED MATERIAL PEBBLE

DEPTH(M) LEVEL DRY  
SAMPLE: COLOR L-YL-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 01

REMARKS:

J-38 MARAVILLAS CANYON SE QUAD; SAMPLE TAKEN OVER 60M DISTANCE AT 3M INTERVALS GOING UPSTREAM STARTING 20M ABOVE CONFLUENCE;  
I-51 FINE SAND TO COARSE PEBBLES CONSISTING OF LIMESTONE FRAGS AND FEW EXTRUSIVE FRAGS;  
J-78 BOB WEST, REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029511 TYPE STREAM SEDIMENT REPLICATE SAMPLER SAR  
PHASE E MAP NH1309 SITE H476 TIME TAKEN 15/11/02/80  
LOCATION: LAT 29.577 (29 34' 37") LONG 102.779 (102 46' 44")

AIR TEMP(C) + 26.5  
RELIEF MODERATE  
CONTAMINANTS NONE

WEATHER LT WIND-PT CLDY  
VEGETATION BRUSH-SPARSE  
STREAM FLOW(M/SEC)

SURFACE GEOL UNIT QD RESULTS REQ YES ,RELEASED 800708

WATER: WIDTH(M)  
BED MATERIAL PEBBLE

DEPTH(M) LEVEL DRY  
SAMPLE: COLOR L-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 01

REMARKS:

I-38 MARAVILLAS CANYON SE QUAD; SAMPLE TAKEN OVER 60M DISTANCE AT 3M INTERVALS GOING UPSTREAM STARTING 20M ABOVE CONFLUENCE;  
I-51 FINE SAND TO COARSE PEBBLES CONSISTING OF LIMESTONE FRAGS;  
J-78 BOB WEST, REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029512 TYPE OTHER REPLICATE SAMPLER SAR  
PHASE R MAP NH1309 SITE H477 TIME TAKEN 10/12/02/80

AIR TEMP(C) + 28.5  
RELIEF MODERATE

WEATHER LT WIND-PT CLDY  
VEGETATION BRUSH-SPARSE

LOCATION: LAT 29.561 (29 33' 39") LONG 102.783 (102 46' 58")

CONTAMINANTS NONE

STREAM FLOW (M/SEC)

WATER: WIDTH (M)

DEPTH (M)

LEVEL

SURFACE GEOL UNIT LKT RESULTS REQ YES, RELEASED 800708

BED MATERIAL

SAMPLE: COLOR M-BN-GY

ODOR NONE

## REMARKS:

J-38 MARAVILLAS CANYON SE QUAD; READING TAKEN ON MASSIVE, PITTED LIMESTONE 20M ABOVE ROAD INTERSECTION, ON S SIDE OF ROAD;  
 I-78 BOB WEST, REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029513 TYPE STREAM SEDIMENT REPLICATE SAMPLER SAR

AIR TEMP (C) + 25.5

WEATHER LT WIND-PT CLDY

PHASE E MAP NH1309 SITE H478 TIME TAKEN 11/12/02/80

RELIEF MODERATE

VEGETATION BRUSH-SPARSE

LOCATION: LAT 29.559 (29 33' 32") LONG 102.823 (102 49' 22")

CONTAMINANTS NONE

STREAM FLOW (M/SEC)

WATER: WIDTH (M)

DEPTH (M)

LEVEL DRY

SURFACE GEOL UNIT LKSP RESULTS REQ YES, RELEASED 800708

BED MATERIAL PEBBLE

SAMPLE: COLOR L-YL-GY

ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY

SAMPLE TREATMENT NONE

NUMBER OF GRABS 20

ORGANIC MATERIAL (%) 01

## REMARKS:

I-38 MARAVILLAS CANYON SE QUAD; SAMPLE TAKEN OVER 60M DISTANCE AT IRREGULAR INTERVALS GOING UPSTREAM STARTING 200M ABOVE  
 CONFLUENCE;

I-51 FINE SAND TO COARSE PEBBLES CONSISTING OF LIMESTONE FRAGS, FEW AGATE AND EXTRUSIVE FRAGS;

J-78 BOB WEST, REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029514 TYPE STREAM SEDIMENT REPLICATE SAMPLER SAR

AIR TEMP (C) + 26.5

WEATHER LT WIND-PT CLDY

PHASE E MAP NH1309 SITE H479 TIME TAKEN 12/12/02/80

RELIEF MODERATE

VEGETATION BRUSH-SPARSE

LOCATION: LAT 29.561 (29 33' 39") LONG 102.834 (102 50' 2")

CONTAMINANTS NONE

STREAM FLOW (M/SEC)

WATER: WIDTH (M)

DEPTH (M)

LEVEL DRY

SURFACE GEOL UNIT LKSP RESULTS REQ YES, RELEASED 800708

BED MATERIAL PEBBLE

SAMPLE: COLOR L-BN-GY

ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY

SAMPLE TREATMENT NONE

NUMBER OF GRABS 20

ORGANIC MATERIAL (%) 01

## REMARKS:

I-38 MARAVILLAS CANYON SE QUAD; SAMPLE TAKEN OVER 60M DISTANCE AT 3M INTERVALS GOING UPSTREAM STARTING 20M ABOVE CONFLUENCE;

I-51 FINE SAND TO COARSE PEBBLES CONSISTING OF LIMESTONE FRAGS, FEW EXTRUSIVE FRAGS, FEW AGATE FRAGS;

J-78 BOB WEST, REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029515 TYPE STREAM SEDIMENT REPLICATE SAMPLER SAR

AIR TEMP (C) + 26.0

WEATHER LT WIND-PT CLDY

PHASE E MAP NH1309 SITE H480 TIME TAKEN 13/12/02/80

RELIEF MODERATE

VEGETATION BRUSH-SPARSE

LOCATION: LAT 29.566 (29 33' 57") LONG 102.843 (102 50' 34")

CONTAMINANTS NONE

STREAM FLOW (M/SEC)

WATER: WIDTH (M)

DEPTH (M)

LEVEL DRY

SURFACE GEOL UNIT LKSP RESULTS REQ YES, RELEASED 800708

BED MATERIAL PEBBLE

SAMPLE: COLOR L-YL-GY

ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY

SAMPLE TREATMENT NONE

NUMBER OF GRABS 20

ORGANIC MATERIAL (%) 01

## REMARKS:

J-38 MARAVILLAS CANYON SE QUAD; SAMPLE TAKEN OVER 60M DISTANCE AT 3M INTERVALS GOING UPSTREAM STARTING 20M ABOVE CONFLUENCE;

I-51 FINE SAND TO COARSE PEBBLES CONSISTING OF LIMESTONE FRAGS, SOME AGATE FRAGS;

I-78 BOB WEST, REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;



029516 TYPE STREAM SEDIMENT REPLICATE SAMPLER SAR AIR TEMP(C) + 24.5 WEATHER LT WIND-PT CLDY  
 PHASE E MAP NH1309 SITE H481 TIME TAKEN 15/12/02/80 RELIEF MODERATE VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.577(29 34'37") LONG 102.855(102 51'18") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT LKSP RESULTS REQ YES, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL PEBBLE SAMPLE: COLOR L-YL-BN ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 01

## REMARKS:

1-38 MARAVILLAS CANYON SE QUAD; SAMPLE TAKEN OVER 60M DISTANCE AT IRREGULAR INTERVALS GOING UPSTREAM STARTING 20M ABOVE  
 CONFLUENCE;

1-51 FINE SAND TO COARSE PEBBLES CONSISTING OF LIMESTONE FRAGS, FEW EXTRUSIVE FRAGS;

1-78 BOB WEST, REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029517 TYPE STREAM SEDIMENT REPLICATE SAMPLER SAR AIR TEMP(C) + 18.5 WEATHER CALM-PT CLDY  
 PHASE E MAP NH1309 SITE H482 TIME TAKEN 09/13/02/80 RELIEF HIGH VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.536(29 32' 9") LONG 102.998(102 59'52") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL COBBLE SAMPLE: COLOR L-BN-GY ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 05

## REMARKS:

1-38 MARAVILLAS CANYON SW QUAD; SAMPLE TAKEN OVER 60M DISTANCE AT IRREGULAR INTERVALS GOING UPSTREAM STARTING 20M ABOVE  
 CONFLUENCE;

1-51 COARSE SAND AND PEBBLES CONSISTING OF LIMESTONE FRAGS AND SOME AGATE FRAGS;

1-78 BOB WEST, REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029518 TYPE OTHER REPLICATE SAMPLER SAR AIR TEMP(C) + 20.0 WEATHER CALM-PT CLDY  
 PHASE R MAP NH1309 SITE H483 TIME TAKEN 10/13/02/80 RELIEF HIGH VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.526(29 31'33") LONG 102.998(102 59'52") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL  
 BED MATERIAL SAMPLE: COLOR M-BN-GY ODOR NONE

## REMARKS:

1-38 MARAVILLAS CANYON SW QUAD; READING TAKEN ON LIMESTONE BRECCIA; FRAGS ARE LIMESTONE AND CHERT; CEMENT IS CALCAREOUS;

LOCATION IS 5M W OF ROAD; THIS UNIT OVERLIES FOSSILIFEROUS LIMESTONE WITH COUNT OF 44 CPS;

1-78 BOB WEST, REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029519 TYPE OTHER REPLICATE SAMPLER SAR AIR TEMP(C) + 21.5 WEATHER CALM-PT CLDY  
 PHASE R MAP NH1309 SITE H484 TIME TAKEN 11/13/02/80 RELIEF HIGH VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.522(29 31'19") LONG 102.995(102 59'42") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL  
 BED MATERIAL SAMPLE: COLOR M-BN-GY ODOR NONE

## REMARKS:

1-38 MARAVILLAS CANYON SW QUAD; READING TAKEN ON SANTA ELENA LIMESTONE ON UPTHROWN SIDE OF FAULT; LOCATION IS 10M W OF ROAD, BY  
 FENCE;

1-78 BOB WEST, REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029520 TYPE OTHER REPLICATE SAMPLER SAR AIR TEMP(C) + 21.5 WEATHER CALM-PT CLDY  
 PHASE R MAP NH1309 SITE H485 TIME TAKEN 11/13/02/80 RELIEF HIGH VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.522 (29 31'19") LONG 102.994 (102 59'38") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL  
 BED MATERIAL SAMPLE: COLOR M-BN-GY ODOR NONE

## REMARKS:

1-38 MARAVILLAS CANYON SW QUAD; READING TAKEN ON SANTA ELENA LIMESTONE, ON DOWN THROWN SIDE OF FAULT; LOCATION IS 20M E OF ROAD  
 BY FENCE;

J-78 BOB WEST REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029521 TYPE OTHER REPLICATE SAMPLER SAR AIR TEMP(C) + 23.0 WEATHER CALM-PT CLDY  
 PHASE R MAP NH1309 SITE H486 TIME TAKEN 12/13/02/80 RELIEF HIGH VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.528 (29 31'40") LONG 102.997 (102 59'49") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL  
 BED MATERIAL SAMPLE: COLOR M-BN-GY ODOR NONE

## REMARKS:

1-38 MARAVILLAS CANYON SW QUAD; READING TAKEN ON MASSIVE, PITTED LIMESTONE LOCATED 20E OF ROAD;

J-78 BOB WEST, REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029522 TYPE STREAM SEDIMENT REPLICATE SAMPLER SAR AIR TEMP(C) + 25.5 WEATHER CALM-PT CLDY  
 PHASE E MAP NH1309 SITE H487 TIME TAKEN 13/13/02/80 RELIEF GENTLE VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.615 (29 36'54") LONG 102.990 (102 59'24") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT QD RESULTS REQ YES, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL SILT SAMPLE: COLOR L-YL-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 01

## REMARKS:

J-38 MARAVILLAS CANYON SW QUAD; SAMPLE TAKEN OVER 100M DISTANCE AT IRREGULAR INTERVALS GOING UPSTREAM STARTING 20M ABOVE ROAD.  
 1-51 FINE SILT WITH SOME LIMESTONE PEBBLES;

J-78 BOB WEST, REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029523 TYPE STREAM SEDIMENT REPLICATE SAMPLER SAR AIR TEMP(C) + 27.0 WEATHER CALM-PT CLDY  
 PHASE E MAP NH1309 SITE H488 TIME TAKEN 14/13/02/80 RELIEF GENTLE VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.612 (29 36'43") LONG 102.998 (102 59'52") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT QD RESULTS REQ YES, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL PEBBLE SAMPLE: COLOR L-YL-GY ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 01

## REMARKS:

J-38 MARAVILLAS CANYON SW QUAD; SAMPLE COLLECTED OVER 60M DISTANCE AT 3M INTERVALS GOING UPSTREAM STARTING 20M ABOVE ROAD.  
 1-51 COARSE SAND AND PEBBLES CONSISTING OF LIMESTONE AND EXTRUSIVE FRAGS; SILT FRACTION ALSO PRESENT;

J-78 BOB WEST, REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;



029524 TYPE STREAM SEDIMENT REPLICATE SAMPLER SAR AIR TEMP(C) + 29.5 WEATHER CALM-PT CLDY  
 PHASE E MAP NH1309 SITE H489 TIME TAKEN 15/13/02/80 RELIEF HIGH VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.499 (29 29'56") LONG 102.843 (102 50'34") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 BED MATERIAL PEBBLE SAMPLE: COLOR L-BN-GY ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 01

## REMARKS:

1-38 MARAVILLAS CANYON SE QUAD; SAMPLE TAKEN OVER 60M DISTANCE AT IRREGULAR INTERVALS GOING UPSTREAM STARTING 20M ABOVE ROAD;  
 1-51 FINE SAND TO PEBBLES CONSISTING OF LIMESTONE AND INTRUSIVE FRAGS;  
 1-78 BOB WEST, REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029525 TYPE STREAM SEDIMENT REPLICATE SAMPLER SAR AIR TEMP(C) + 27.0 WEATHER CALM-PT CLDY  
 PHASE E MAP NH1309 SITE H490 TIME TAKEN 16/13/02/80 RELIEF MODERATE VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.581 (29 34'51") LONG 102.979 (102 58'44") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 BED MATERIAL PEBBLE SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 01

## REMARKS:

1-38 MARAVILLAS CANYON SW QUAD; SAMPLE TAKEN OVER 60M DISTANCE AT 3M INTERVALS GOING UPSTREAM STARTING 20M ABOVE ROAD;  
 1-51 FINE SAND TO PEBBLES CONSISTING OF LIMESTONE AND SOME EXTRUSIVE FRAGS;  
 1-78 BOB WEST, REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029526 TYPE STREAM SEDIMENT REPLICATE SAMPLER SAR AIR TEMP(C) + 25.0 WEATHER LT WIND-PT CLDY  
 PHASE E MAP NH1309 SITE H491 TIME TAKEN 10/15/02/80 RELIEF MODERATE VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.763 (29 45'46") LONG 102.887 (102 53'13") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 SURFACE GEOL UNIT LKSP RESULTS REQ YES, RELEASED 800708 BED MATERIAL PEBBLE SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 01

## REMARKS:

1-38 DOVE MOUNTAIN QUAD; SAMPLE TAKEN OVER 60M DISTANCE AT IRREGULAR INTERVALS GOING UPSTREAM STARTING 20M ABOVE ROAD;  
 1-51 FINE SAND TO PEBBLES CONSISTING OF LIMESTONE FRAGS OF VARIOUS COLORS;  
 1-78 HERMAN MAYHEW & 10539 BERRY KNOLL & DALLAS, TX 75230;

029527 TYPE STREAM SEDIMENT REPLICATE SAMPLER SAR AIR TEMP(C) + 29.0 WEATHER LT WIND-PT CLDY  
 PHASE E MAP NH1309 SITE H492 TIME TAKEN 11/15/02/80 RELIEF MODERATE VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.751 (29 45' 3") LONG 102.906 (102 54'21") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 BED MATERIAL PEBBLE SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 01

## REMARKS:

1-38 DOVE MOUNTAIN QUAD; SAMPLE COLLECTED OVER 60M DISTANCE AT 3M INTERVALS GOING UPSTREAM STARTING 20M ABOVE ROAD;  
 1-51 MED. SAND TO PEBBLES CONSISTING OF LIMESTONE FRAGS AND FEW TI FRAGS;  
 J-78 HERMAN MAYHEW & 10539 BERRY KNOLL & DALLAS, TX 75230;

029528	TYPE	STREAM SEDIMENT	REPLICATE	SAMPLER SAR	AIR TEMP(C) + 29.5	WEATHER	LT WIND-PT CLDY			
	PHASE	E	MAP NH1309	SITE H493	TIME TAKEN 11/15/02/80	RELIEF	MODERATE	VEGETATION	BRUSH-SPARSE	
	LOCATION:	LAT 29.757(29 45'25")	LONG	102.902(102 54' 7")	CONTAMINANTS	NONE	STREAM FLOW(M/SEC)			
	SURFACE GEOL UNIT	QD	RESULTS REQ	YES	RELEASED	800708	WATER: WIDTH(M)	DEPTH(M)	LEVEL DRY	
							BED MATERIAL	PEBBLE	SAMPLE: COLOR L-GY-BN	ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION	DRY	SAMPLE TREATMENT	NONE	NUMBER OF GRABS	20	ORGANIC MATERIAL(%)	01
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## REMARKS:

J-38 DOVE MOUNTAIN QUAD; SAMPLE TAKEN OVER 60M DISTANCE AT 3M INTERVALS GOING UPSTREAM STARTING 20M ABOVE ROAD;  
 1-51 FINE SAND TO PEBBLES CONSISTING OF LIMESTONE FRAGS, SOME SANDSTONE AND AGATE FRAGS;  
 1-78 HERMAN MAYHEW & 10539 BERRY KNOLL & DALLAS, TX 75230;

029530	TYPE	STREAM SEDIMENT	REPLICATE	SAMPLER SAR	AIR TEMP(C) + 31.0	WEATHER	-PT CLDY			
	PHASE	E	MAP NH1309	SITE H494	TIME TAKEN 12/15/02/80	RELIEF	MODERATE	VEGETATION	BRUSH-SPARSE	
	LOCATION:	LAT 29.773(29 46'22")	LONG	102.886(102 53' 9")	CONTAMINANTS	NONE	STREAM FLOW(M/SEC)			
	SURFACE GEOL UNIT	LKSP	RESULTS REQ	YES	RELEASED	800708	WATER: WIDTH(M)	DEPTH(M)	LEVEL DRY	
							BED MATERIAL	PEBBLE	SAMPLE: COLOR L-BN-GY	ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION	DRY	SAMPLE TREATMENT	NONE	NUMBER OF GRABS	20	ORGANIC MATERIAL(%)	01
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## REMARKS:

J-38 DOVE MOUNTAIN QUAD; SAMPLE TAKEN OVER 60M DISTANCE AT IRREGULAR INTERVALS GOING UPSTREAM STARTING 20M ABOVE ROAD;  
 1-51 FINE SAND TO PEBBLES CONSISTING OF LIMESTONE FRAGS OF VARIOUS TYPES;  
 J-78 HERMAN MAYHEW & 10539 BERRY KNOLL & DALLAS, TX 75230;

029531	TYPE	STREAM SEDIMENT	REPLICATE	SAMPLER SAR	AIR TEMP(C) + 32.0	WEATHER	-PT CLDY			
	PHASE	E	MAP NH1309	SITE H495	TIME TAKEN 12/15/02/80	RELIEF	MODERATE	VEGETATION	BRUSH-SPARSE	
	LOCATION:	LAT 29.780(29 46'48")	LONG	102.904(102 54'14")	CONTAMINANTS	NONE	STREAM FLOW(M/SEC)			
	SURFACE GEOL UNIT	LKSE	RESULTS REQ	YES	RELEASED	800708	WATER: WIDTH(M)	DEPTH(M)	LEVEL DRY	
							BED MATERIAL	PEBBLE	SAMPLE: COLOR L-YL-GY	ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION	DRY	SAMPLE TREATMENT	NONE	NUMBER OF GRABS	20	ORGANIC MATERIAL(%)	01
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## REMARKS:

1-38 DOVE MOUNTAIN QUAD; SAMPLE TAKEN OVER 60M DISTANCE AT 3M INTERVALS GOING UPSTREAM STARTING 20M ABOVE ROAD;  
 1-51 FINE SAND TO PEBBLES CONSISTING OF LIMESTONE FRAGS;  
 J-78 HERMAN MAYHEW & 10539 BERRY KNOLL & DALLAS, TX 75230;

029532	TYPE	STREAM SEDIMENT	REPLICATE	SAMPLER SAR	AIR TEMP(C) + 31.5	WEATHER	-PT CLDY		
	PHASE	E	MAP NH1309	SITE H496	TIME TAKEN 13/15/02/80	RELIEF	MODERATE	VEGETATION	BRUSH-SPARSE



LOCATION: LAT 29.795 (29 47' 42") LONG 102.914 (102 54' 50") CONTAMINANTS NONE  
 WATER: WIDTH(M) STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 BED MATERIAL PEBBLE DEPTH(M) LEVEL DRY  
 SAMPLE: COLOR L-YL-BN ODOR NONE

## SEDIMENT INFORMATION

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 01

## REMARKS:

1-38 DOVE MOUNTAIN QUAD; SAMPLE TAKEN OVER 60M DISTANCE AT IRREGULAR INTERVALS GOING UPSTREAM STARTING 20M ABOVE ROAD;  
 1-51 FINE SAND TO PEBBLES CONSISTING OF LIMESTONE FRAGS AND FEW AGATE FRAGS;  
 1-78 HERMAN MAYHEW & 10539 BERRY KNOLL & DALLAS, TX 75230;

029533 TYPE OTHER REPLICATE SAMPLER SAR AIR TEMP(C) + 31.0 WEATHER -PT CLDY  
 PHASE R MAP NH1309 SITE H497 TIME TAKEN 13/15/02/80 RELIEF MODERATE VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.817 (29 49' 1") LONG 102.942 (102 56' 31") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT T1 RESULTS REQ YES, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL  
 BED MATERIAL SAMPLE: COLOR M-RD-BN ODOR NONE

## REMARKS:

1-38 DOVE MOUNTAIN QUAD; READING TAKEN ON TRACHYTIC, PLATY ROCK LOCATED ON SE SIDE OF EAST BLACK HILL;  
 1-78 HERMAN MAYHEW & 10539 BERRY KNOLL & DALLAS, TX 75230;

029534 TYPE OTHER REPLICATE SAMPLER SAR AIR TEMP(C) + 31.5 WEATHER -PT CLDY  
 PHASE R MAP NH1309 SITE H498 TIME TAKEN 14/15/02/80 RELIEF HIGH VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.820 (29 49' 12") LONG 102.943 (102 56' 34") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT T1 RESULTS REQ YES, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL  
 BED MATERIAL SAMPLE: COLOR M-RD-BN ODOR NONE

## REMARKS:

1-38 DOVE MOUNTAIN QUAD; READING TAKEN ON WEATHERED, TRACHYTIC ROCK WITH FELDSPAR PHENOCRYSTS LOCATED ON N SIDE OF EAST BLACK HILL 7M UP SLOPE;  
 1-78 HERMAN MAYHEW & 10539 BERRY KNOLL & DALLAS, TX 75230;

029535 TYPE OTHER REPLICATE SAMPLER SAR AIR TEMP(C) + 32.0 WEATHER -PT CLDY  
 PHASE R MAP NH1309 SITE H499 TIME TAKEN 14/15/02/80 RELIEF HIGH VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.821 (29 49' 15") LONG 102.943 (102 56' 34") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL  
 BED MATERIAL SAMPLE: COLOR M-BN-GY ODOR NONE

## REMARKS:

1-38 DOVE MOUNTAIN QUAD; READING TAKEN ON MASSIVE, PITTED LIMESTONE WITH SILICIFIED, IRON-STAINED RUDISTIDS LOCATED 7M N OF ROAD;  
 1-78 HERMAN MAYHEW & 10539 BERRY KNOLL & DALLAS, TX 75230;

029536 TYPE STREAM SEDIMENT REPLICATE SAMPLER SAR AIR TEMP(C) + 22.0 WEATHER -PT CLDY  
 PHASE E MAP NH1309 SITE H500 TIME TAKEN 10/19/02/80 RELIEF MODERATE VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.762 (29 45' 43") LONG 102.927 (102 55' 37") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT QD RESULTS REQ YES, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL PEBBLE SAMPLE: COLOR L-BN-GY ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 01

## REMARKS:

1-38 DOVE MOUNTAIN QUAD; SAMPLE TAKEN OVER 60M DISTANCE AT 3M INTERVALS GOING UPSTREAM STARTING 20M ABOVE ROAD;  
 1-51 MED. SAND TO PEBBLES CONSISTING OF LIMESTONE AND SOME AGATE FRAGS; SOME TI FRAGS ALSO PRESENT;  
 1-78 HERMAN MAYHEW & 10539 BERRY KNOLL & DALLAS, TX 75230;

029537 TYPE STREAM SEDIMENT REPLICATE SAMPLER SAR AIR TEMP(C) + 25.0 WEATHER -PT CLDY  
 PHASE E MAP NH1309 SITE H501 TIME TAKEN 11/19/02/80 RELIEF MODERATE VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.753 (29 45' 10") LONG 102.924 (102 55' 26") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 SURFACE GEOL UNIT LKSP RESULTS REQ YES, RELEASED 800708 BED MATERIAL SAND SAMPLE: COLOR M-RD-GY ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 01

## REMARKS:

1-38 DOVE MOUNTAIN QUAD; SAMPLE COLLECTED OVER 60M DISTANCE AT IRREGULAR INTERVALS GOING UPSTREAM STARTING 20M ABOVE DAM;  
 1-51 FINE SAND TO PEBBLES CONSISTING OF BASALTIC FRAGS, LIMESTONE FRAGS, AGATE FRAGS;  
 1-78 HERMAN MAYHEW & 10539 BERRY KNOLL & DALLAS, TX 75230;

029538 TYPE STREAM SEDIMENT REPLICATE SAMPLER SAR AIR TEMP(C) + 24.0 WEATHER -PT CLDY  
 PHASE E MAP NH1309 SITE H502 TIME TAKEN 12/19/02/80 RELIEF MODERATE VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.768 (29 46' 4") LONG 102.925 (102 55' 30") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 SURFACE GEOL UNIT QD RESULTS REQ YES, RELEASED 800708 BED MATERIAL SAND SAMPLE: COLOR L-GY-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 01

## REMARKS:

1-38 DOVE MOUNTAIN QUAD; SAMPLE TAKEN OVER 60M DISTANCE AT IRREGULAR INTERVALS ALONG CHANNELS, GOING UPSTREAM STARTING 20M ABOVE DAM;  
 1-51 SILT TO PEBBLES CONSISTING OF LIMESTONE FRAGS;  
 1-78 HERMAN MAYHEW & 10539 BERRY KNOLL & DALLAS, TX 75230;

029539 TYPE STREAM SEDIMENT REPLICATE SAMPLER SAR AIR TEMP(C) + 26.5 WEATHER -PT CLDY  
 PHASE E MAP NH1309 SITE H503 TIME TAKEN 12/19/02/80 RELIEF MODERATE VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.775 (29 46' 30") LONG 102.913 (102 54' 46") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 SURFACE GEOL UNIT QD RESULTS REQ YES, RELEASED 800708 BED MATERIAL PEBBLE SAMPLE: COLOR L-YL-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 01

## REMARKS:

1-38 DOVE MOUNTAIN QUAD; SAMPLE TAKEN OVER 60M DISTANCE AT 3M INTERVALS GOING UPSTREAM STARTING 20M ABOVE ROAD;  
 1-51 FINE SAND TO PEBBLES CONSISTING OF LIMESTONE AND SOME SANDSTONE AND AGATE FRAGS;  
 1-78 HERMAN MAYHEW & 10539 BERRY KNOLL & DALLAS, TX 75230;



029540 TYPE STREAM SEDIMENT REPLICATE SAMPLER SAR AIR TEMP(C) + 28.0 WEATHER -PT CLOUDY  
 PHASE E MAP NH1309 SITE H504 TIME TAKEN 13/19/02/80 RELIEF MODERATE VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.795( 29 47'42") LONG 102.893(102 53'34") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT QD RESULTS REQ YES, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 BED MATERIAL PEBBLE SAMPLE: COLOR L-BN-GY ODOR NONE

SEDIMENT INFORMATION:  
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 01

## REMARKS:

1-38 DOVE MOUNTAIN QUAD; SAMPLE TAKEN OVER 60M DISTANCE AT 3M INTERVALS GOING UPSTREAM STARTING 20M ABOVE ROAD;  
 J-51 FINE TO COARSE GRAINED SAND AND PEBBLES CONSISTING OF LIMESTONE AND AGATE FRAGS;  
 1-78 HERMAN MAYHEW & 10539 BERRY KNOLL & DALLAS, TX 75230;

029541 TYPE OTHER REPLICATE SAMPLER SAR AIR TEMP(C) + 26.5 WEATHER -CLEAR  
 PHASE R MAP NH1309 SITE H505 TIME TAKEN 11/20/02/80 RELIEF MODERATE VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.754( 29 45'14") LONG 102.927(102 55'37") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT T1 RESULTS REQ YES, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL  
 BED MATERIAL SAMPLE: COLOR D-RD-BN ODOR NONE

## REMARKS:

1-38 DOVE MOUNTAIN QUAD; READING TAKEN ON BASALT WITH CALCITE IN FILLING OF VESICLES; LOCATION IS 20M E OF DAM ON N SIDE OF  
 STREAM BED;  
 1-78 HERMAN MAYHEW & 10539 BERRY KNOLL & DALLAS, TX 75230;

029542 TYPE OTHER REPLICATE SAMPLER SAR AIR TEMP(C) + 26.5 WEATHER -CLEAR  
 PHASE R MAP NH1309 SITE H506 TIME TAKEN 11/20/02/80 RELIEF MODERATE VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.752( 29 45' 7") LONG 102.927(102 55'37") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT LKSP RESULTS REQ YES, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL  
 BED MATERIAL SAMPLE: COLOR M-BN-GY ODOR NONE

## REMARKS:

1-38 DOVE MOUNTAIN QUAD; READING TAKEN ON PITTED LIMESTONE WITH IRON-STAINED RUDISTIDS; MASSIVE BEDDING; LOCATION IS 1M S OF  
 ROAD ON LINE WITH DAM;  
 1-78 HERMAN MAYHEW & 10539 BERRY KNOLL & DALLAS, TX 75230;

029543 TYPE OTHER REPLICATE SAMPLER SAR AIR TEMP(C) + 28.0 WEATHER -CLEAR  
 PHASE R MAP NH1309 SITE H507 TIME TAKEN 12/20/02/80 RELIEF HIGH VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.765( 29 45'54") LONG 102.942(102 56'31") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT LKSP RESULTS REQ YES, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL  
 BED MATERIAL SAMPLE: COLOR L-BN-GY ODOR NONE

## REMARKS:

1-38 DOVE MOUNTAIN QUAD; READING TAKEN ON MED. BEDDED, TILTED LIMESTONE 0.2M FROM LIMESTONE - BASALT CONTACT; LOCATION IS 10M N  
 OF ROAD, IN STREAM BED;  
 J-78 HERMAN MAYHEW & 10539 BERRY KNOLL & DALLAS, TX 75230;

029544 TYPE OTHER REPLICATE SAMPLER SAR AIR TEMP(C) + 28.5 WEATHER -CLEAR  
 PHASE R MAP NH1309 SITE H508 TIME TAKEN 12/20/02/80 RELIEF HIGH VEGETATION BRUSH-SPARSE

LOCATION: LAT 29.766 (29 45' 57") LONG 102.942 (102 56' 31")

CONTAMINANTS NONE

STREAM FLOW (M/SEC)

SURFACE GEOL UNIT T1 RESULTS REQ YES, RELEASED 800708

WATER: WIDTH (M)  
BED MATERIAL

DEPTH (M) LEVEL  
SAMPLE: COLOR D-RD-BN ODOR NONE

REMARKS:

J-38 DOVE MOUNTAIN QUAD; READING TAKEN ON BLOCKY BASALTIC ROCK WITH SILICK INFILLED VESICLES; LOCATION IS AT CREST OF SMALL HILL TO N OF ROAD:  
I-78 HERMAN MAYHEW & 10539 BERRY KNOLL & DALLAS, TX 75230;

029545 TYPE OTHER REPLICATE SAMPLER SAR  
PHASE R MAP NH1309 SITE H509 TIME TAKEN 12/20/02/80  
LOCATION: LAT 29.765 (29 45' 54") LONG 102.941 (102 56' 27")

AIR TEMP (C) + 28.5  
RELIEF HIGH  
CONTAMINANTS NONE

WEATHER -CLEAR  
VEGETATION BRUSH-SPARSE  
STREAM FLOW (M/SEC)

SURFACE GEOL UNIT LKSP RESULTS REQ YES, RELEASED 800708

WATER: WIDTH (M)  
BED MATERIAL

DEPTH (M) LEVEL  
SAMPLE: COLOR M-BN-GY ODOR NONE

REMARKS:

I-38 DOVE MOUNTAIN QUAD; READING TAKEN ON LIMESTONE BRECCIA WHICH CONTAINS BASALT FRAGS; BRECCIA IS HIGHLY WEATHERED; LOCATION IS 3M S OF ROAD:  
I-38 HERMAN MAYHEW & 10539 BERRY KNOLL & DALLAS, TX 75230;

029546 TYPE OTHER REPLICATE SAMPLER SAR  
PHASE R MAP NH1309 SITE H510 TIME TAKEN 13/20/02/80  
LOCATION: LAT 29.775 (29 46' 30") LONG 102.944 (102 56' 38")

AIR TEMP (C) + 29.5  
RELIEF HIGH  
CONTAMINANTS NONE

WEATHER -CLEAR  
VEGETATION BRUSH-SPARSE  
STREAM FLOW (M/SEC)

SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708

WATER: WIDTH (M)  
BED MATERIAL

DEPTH (M) LEVEL  
SAMPLE: COLOR L-GY-BN ODOR NONE

REMARKS:

I-38 DOVE MOUNTAIN QUAD; READING TAKEN ON LIMESTONE BRECCIA CONTAINING LIMESTONE AND SOME AGATE FRAGS; LOCATION IS IN MIDDLE OF ROAD:  
J-78 HERMAN MAYHEW & 10539 BERRY KNOLL & DALLAS, TX 75230;

029547 TYPE OTHER REPLICATE SAMPLER SAR  
PHASE R MAP NH1309 SITE H511 TIME TAKEN 14/20/02/80  
LOCATION: LAT 29.771 (29 46' 15") LONG 102.915 (102 54' 54")

AIR TEMP (C) + 29.5  
RELIEF HIGH  
CONTAMINANTS NONE

WEATHER -CLEAR  
VEGETATION BRUSH-SPARSE  
STREAM FLOW (M/SEC)

SURFACE GEOL UNIT LKSP RESULTS REQ YES, RELEASED 800708

WATER: WIDTH (M)  
BED MATERIAL

DEPTH (M) LEVEL  
SAMPLE: COLOR L-GY-BN ODOR NONE

REMARKS:

I-38 DOVE MOUNTAIN QUAD; READING TAKEN ON LIMESTONE BRECCIA WITH EQUAL NUMBERS OF LIMESTONE AND AGATE FRAGS; LOCATION IS 10M S OF WATER TANK:  
I-78 HERMAN MAYHEW & 10539 BERRY KNOLL & DALLAS, TX 75230;

029548 TYPE OTHER REPLICATE SAMPLER SAR  
PHASE R MAP NH1309 SITE H512 TIME TAKEN 15/20/02/80  
LOCATION: LAT 29.773 (29 46' 22") LONG 102.896 (102 53' 45")

AIR TEMP (C) + 30.5  
RELIEF HIGH  
CONTAMINANTS NONE

WEATHER -CLEAR  
VEGETATION BRUSH-SPARSE  
STREAM FLOW (M/SEC)

SURFACE GEOL UNIT LKSP RESULTS REQ YES, RELEASED 800708

WATER: WIDTH (M)  
BED MATERIAL

DEPTH (M) LEVEL  
SAMPLE: COLOR L-GY-BN ODOR NONE

REMARKS:



1-38 DOVE MOUNTAIN QUAD; READING TAKEN ON BRECCIA WITH LIMESTONE, AGATE AND TI FRAGS AND CALCAREOUS MATRIX; LOCATION IS 10M SW OF ROAD;

1-78 HERMAN MAYHEW & 10539 BERRY KNOLL & DALLAS, TX 75230;

029550	TYPE OTHER	REPLICATE	SAMPLER SAR	AIR TEMP(C) + 29.0	WEATHER LT WIND-CLEAR	
	PHASE R	MAP NH1309	SITE H513	TIME TAKEN 11/22/02/80	RELIEF HIGH	VEGETATION BRUSH-SPARSE
	LOCATION: LAT 29.602 (29 36' 7")			LONG 102.891 (102 53' 27")	CONTAMINANTS NONE	STREAM FLOW(M/SEC)
	SURFACE GEOL UNIT LKSE			RESULTS REQ YES	RELEASED 800708	WATER: WIDTH(M)
				BED MATERIAL	DEPTH(M)	LEVEL
					SAMPLE: COLOR M-GY-BN	ODOR NONE

## REMARKS:

1-38 MARAVILLAS CANYON SW QUAD; READING TAKEN FROM PUNKY, FOSSILIFEROUS LIMESTONE LOCATED ON W SIDE OF AND AT BASE OF 3M TALL MASSIVE LIMESTONE BED, ON UPTHROWN SIDE OF FAULT OR POSS. AT FAULT;

1-78 BOB WEST, REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029551	TYPE OTHER	REPLICATE	SAMPLER SAR	AIR TEMP(C) + 29.5	WEATHER LT WIND-CLEAR	
	PHASE R	MAP NH1309	SITE H514	TIME TAKEN 11/22/02/80	RELIEF HIGH	VEGETATION BRUSH-SPARSE
	LOCATION: LAT 29.602 (29 36' 7")			LONG 102.891 (102 53' 27")	CONTAMINANTS NONE	STREAM FLOW(M/SEC)
	SURFACE GEOL UNIT LKSE			RESULTS REQ YES	RELEASED 800708	WATER: WIDTH(M)
				BED MATERIAL	DEPTH(M)	LEVEL
					SAMPLE: COLOR M-BN-GY	ODOR NONE

## REMARKS:

1-38 MARAVILLAS CANYON SW QUAD; READING TAKEN ON TOP OF PITTED, FOSSILIFEROUS LIMESTONE BED IN MIDDLE OF LEVEL PART BETWEEN TWO PEAKS; DOWN THROWN SIDE OF FAULT;

1-78 BOB WEST, REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029552	TYPE OTHER	REPLICATE	SAMPLER SAR	AIR TEMP(C) + 32.0	WEATHER -CLEAR	
	PHASE R	MAP NH1309	SITE H515	TIME TAKEN 12/22/02/80	RELIEF HIGH	VEGETATION BRUSH-SPARSE
	LOCATION: LAT 29.590 (29 35' 24")			LONG 102.895 (102 53' 42")	CONTAMINANTS NONE	STREAM FLOW(M/SEC)
	SURFACE GEOL UNIT UKSE			RESULTS REQ YES	RELEASED 800708	WATER: WIDTH(M)
				BED MATERIAL	DEPTH(M)	LEVEL
					SAMPLE: COLOR L-BN-GY	ODOR NONE

## REMARKS:

1-38 MARAVILLAS CANYON SW QUAD; READING TAKEN ON THIN BEDDED, TILTED, SEM-CONGLOMERATIC LIMESTONE ABOVE STREAM EDGE ON UPTHROWN SIDE OF FAULT;

1-78 BOB WEST, REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029553	TYPE OTHER	REPLICATE	SAMPLER SAR	AIR TEMP(C) + 32.5	WEATHER -CLEAR	
	PHASE R	MAP NH1309	SITE H516	TIME TAKEN 12/22/02/80	RELIEF HIGH	VEGETATION BRUSH-SPARSE
	LOCATION: LAT 29.590 (29 35' 24")			LONG 102.895 (102 53' 42")	CONTAMINANTS NONE	STREAM FLOW(M/SEC)
	SURFACE GEOL UNIT LKSE			RESULTS REQ YES	RELEASED 800708	WATER: WIDTH(M)
				BED MATERIAL	DEPTH(M)	LEVEL
					SAMPLE: COLOR L-PK-GY	ODOR NONE

## REMARKS:

1-38 MARAVILLAS CANYON SW QUAD; READING TAKEN ON PITTED LIMESTONE THAT FORMS STREAM BED, ON DOWN THROWN SIDE OF FAULT;

1-78 BOB WEST, REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029554 TYPE OTHER REPLICATE SAMPLER SAR AIR TEMP(C) + 32.0 WEATHER -CLEAR  
 PHASE R MAP NH1309 SITE H517 TIME TAKEN 13/22/02/80 RELIEF HIGH VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.589 (29 35'20") LONG 102.896 (102 53'45") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT TEU RESULTS REQ YES, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL  
 BED MATERIAL SAMPLE: COLOR M-RD-BN ODOR NONE

## REMARKS:

1-38 MARAVILLAS CANYON SW QUAD; READING TAKEN ON TRACHYTIC ROCK WITH FELDSPAR INCLUSIONS; LOCATION IS E SIDE OF ROAD;

1-78 BOB WEST, REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029555 TYPE OTHER REPLICATE SAMPLER SAR AIR TEMP(C) + 30.5 WEATHER -CLEAR  
 PHASE R MAP NH1309 SITE H518 TIME TAKEN 13/22/02/80 RELIEF HIGH VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.560 (29 33'36") LONG 102.901 (102 54' 3") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT UKSE RESULTS REQ YES, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL  
 BED MATERIAL SAMPLE: COLOR L-YL-OR ODOR NONE

## REMARKS:

1-38 MARAVILLAS CANYON SW QUAD; READING TAKEN ON THINLY BEDDED, TILTED SILTSTONE LOCATED ON NH SIDE OF ROAD; OUTCROP IS PEN

FORMATION;

1-78 BOB WEST, REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029556 TYPE OTHER REPLICATE SAMPLER SAR AIR TEMP(C) + 30.0 WEATHER -CLEAR  
 PHASE R MAP NH1309 SITE H519 TIME TAKEN 14/22/02/80 RELIEF HIGH VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.559 (29 33'32") LONG 102.902 (102 54' 7") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT TEU RESULTS REQ YES, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL  
 BED MATERIAL SAMPLE: COLOR M-RD-BN ODOR NONE

## REMARKS:

1-38 MARAVILLAS CANYON SW QUAD; READING TAKEN ON GASSY, BASALTIC ROCK LOCATED ON W SIDE OF ROAD;

1-78 BOB WEST, REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029557 TYPE OTHER REPLICATE SAMPLER SAR AIR TEMP(C) + 30.0 WEATHER -CLEAR  
 PHASE R MAP NH1309 SITE H520 TIME TAKEN 14/22/02/80 RELIEF HIGH VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.553 (29 33'10") LONG 102.899 (102 53'56") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT TEU RESULTS REQ YES, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL  
 BED MATERIAL SAMPLE: COLOR M-RD-BN ODOR NONE

## REMARKS:

1-38 MARAVILLAS CANYON SW QUAD; READING TAKEN ON GASSY, BASALTIC ROCK LOCATED 200M ABOVE ROAD;

1-78 BOB WEST, REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029558 TYPE OTHER REPLICATE SAMPLER SAR AIR TEMP(C) + 30.0 WEATHER -CLEAR  
 PHASE R MAP NH1309 SITE H521 TIME TAKEN 15/22/02/80 RELIEF HIGH VEGETATION BRUSH-SPARSE  
 LOCATION: LAT 29.545 (29 32'42") LONG 102.895 (102 53'42") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT TEU RESULTS REQ YES, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL  
 BED MATERIAL SAMPLE: COLOR M-RD-BN ODOR NONE

## REMARKS:

1-38 MARAVILLAS CANYON SW QUAD; READING TAKEN ON GASSY, BASALTIC ROCK LOCATED 150M ABOVE ROAD;



1-78 BOB WEST, REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029559 TYPE STREAM SEDIMENT REPLICATE SAMPLER DJT AIR TEMP(C) + 18.0 WEATHER CALM-PT CLDY  
 PHASE E MAP NH1309 SITE H522 TIME TAKEN 15/13/02/80 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.581 (29 34'51") LONG 103.007 (103 0'25") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 BED MATERIAL PEBBLE SAMPLE: COLOR L-YL-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 18 ORGANIC MATERIAL (%) 01

REMARKS:

1-38 DAGGER FLAT 7.5 MIN. TOPO., COLLECTED IN CENTER OF BOULDER STREWN CHANNEL GOING UPSTREAM 60M STARTING AT POINT BETWEEN HIGH PEAKS;

1-51 MED. TO COARSE SAND, SILT, AND PEBBLES OF L.S.;

1-78 BOB WEST & REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029560 TYPE STREAM SEDIMENT REPLICATE SAMPLER DJT AIR TEMP(C) + 18.0 WEATHER LT WIND-CLEAR  
 PHASE E MAP NH1309 SITE H523 TIME TAKEN 11/14/02/80 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.541 (29 32'27") LONG 103.036 (103 2' 9") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 BED MATERIAL PEBBLE SAMPLE: COLOR L-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL (%) 01

REMARKS:

1-38 DAGGER FLAT 7.5 MIN. TOPO., COLLECTED IN CENTER OF MAJOR CHANNEL GOING DOWNSTREAM 60M STARTING 10M DOWNSTREAM OF CONFLUENCE;

1-51 SAND AND SILT COMPOSED OF LIMESTONE FRAG.;

1-78 BOB WEST & REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029561 TYPE WELL WATER REPLICATE SAMPLER DJT AIR TEMP(C) + 18.0 WEATHER -PT CLDY  
 PHASE E MAP NH1309 SITE H524 TIME TAKEN 15/14/02/80 RELIEF LOW VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.660 (29 39'36") LONG 103.047 (103 2'49") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QD RESULTS REQ NO, RELEASED 800708 SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 460 DISSOLVED OXYGEN(PPM) 9.2  
 WATER TEMP(C) + 13.9 VISIBILITY(M) CLEAR PH 2.2 LO-IQN PAPER  
 TOTAL ALKALINITY(PPM) 220 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 218  
 APPEARANCE CLEAR DISCHARGE(L/M)  
 PRODUCING HORIZON QD CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE POWER CLASSIFICATION WIND CASING STEEL PIPE COMPOSITION GALVANIZED  
 METERS FROM HEAD 700 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY FREQUENT  
 DEPTH TO PROD HORIZON(M) 9 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER  
 WELL DEPTH(M) 9 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 BONE SPRING N.E. 7.5 MIN TOPO., COLLECTED FROM GALVANIZED FAUCET OVER STONE HOLDING TANK 700M N.E. OF WINDMILL:

029562 TYPE ROCK REPLICATE SAMPLER DJT AIR TEMP(C) + 19.0 WEATHER CALM-PT CLDY  
 PHASE R MAP NH1309 SITE H525 TIME TAKEN 16/13/02/80 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.581 (29 34'51") LONG 103.006 (103 0'21") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 BED MATERIAL SAMPLE: COLOR M-GY-BN ODOR NONE

## REMARKS:

1-38 DAGGER FLAT 7.5 MIN TOPO., MEAS. ON MASSIVE LIMESTONE BEDS WITH ABUNDANT CALLITE LINED FRACTURES AND VEINS:  
 1-78 BOB WEST & REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029563 TYPE ROCK REPLICATE SAMPLER DJT AIR TEMP(C) + 21.0 WEATHER LT WIND-PT CLDY  
 PHASE R MAP NH1309 SITE H526 TIME TAKEN 10/14/02/80 RELIEF HIGH VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.542 (29 32'31") LONG 103.037 (103 2'13") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 BED MATERIAL SAMPLE: COLOR M-BN-GY ODOR NONE

## REMARKS:

1-38 DAGGER FLAT 7.5 MIN. TOPO., MEAS. ON MASSIVE LIMESTONE CONTAINING CHERT NODULES;

029564 TYPE ROCK REPLICATE SAMPLER DJT AIR TEMP(C) + 22.0 WEATHER LT WIND-PT CLDY  
 PHASE R MAP NH1309 SITE H527 TIME TAKEN 12/14/02/80 RELIEF HIGH VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.547 (29 32'49") LONG 103.027 (103 1'37") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 BED MATERIAL SAMPLE: COLOR M-YL-GY ODOR NONE

## REMARKS:

1-38 DAGGER FLAT 7.5 MIN. TOPO., MEAS. ON MASSIVE, FOSSILIFEROUS LIMESTONE:  
 1-78 BOB WEST & REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029565 TYPE ROCK REPLICATE SAMPLER DJT AIR TEMP(C) + 18.0 WEATHER LT WIND-PT CLDY  
 PHASE R MAP NH1309 SITE H528 TIME TAKEN 13/13/02/80 RELIEF GENTLE VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.587 (29 35'13") LONG 102.933 (102 55'58") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL  
 SURFACE GEOL UNIT UKSE RESULTS REQ NO, RELEASED 800708 BED MATERIAL SAMPLE: COLOR L-YL-BN ODOR NONE

## REMARKS:

1-38 MARA VILLAS CANYON S. W. 7.5 MIN. TOPO., MEAS. ON FAULT ZONE (?) COMPOSED OF GRANULATED LIMESTONE CONTAINING ABUND. CLAY  
 MATERIAL OVERLAIN BY RD. TO GY. CLAYEY ZONE CONTAINING LARGE FRAG. OF VESICULAR BASALT - MAXIMUM READING 80 CPS.

029566 TYPE ROCK REPLICATE SAMPLER DJT AIR TEMP(C) + 19.0 WEATHER LT WIND-PT CLDY  
 PHASE R MAP NH1309 SITE H529 TIME TAKEN 14/13/02/80 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.590 (29 35'24") LONG 102.936 (102 56' 9") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL  
 SURFACE GEOL UNIT UKSE RESULTS REQ NO, RELEASED 800708 BED MATERIAL SAMPLE: COLOR M-YL-GY ODOR NONE



## REMARKS:

1-38 MARAVILLAS CANYON S.W. 7.5 MIN. TOPO., MEAS. ON MARLY LIMESTONE:

029567	TYPE ROCK	REPLICATE	SAMPLER DJT	AIR TEMP(C) + 20.0	WEATHER LT WIND-PT CLDY
	PHASE R	MAP NH1309	SITE H530	RELIEF	VEGETATION BRUSH-MODERATE
	LOCATION: LAT	29.599 (29 35'56")	LONG 102.939 (102 56'20")	CONTAMINANTS NONE	STREAM FLOW(M/SEC)
	SURFACE GEOL UNIT UKSE	RESULTS REQ NO	RELEASED 800708	WATER: WIDTH(M)	DEPTH(M) LEVEL
				BED MATERIAL	SAMPLE: COLOR L-YL-GY ODOR NONE

## REMARKS:

1-38 MARAVILLAS CANYON S.E. 7.5 MIN. TOPO., MEAS. ON INTERBEDDED CALCAREOUS SHALE AND ARGILLACEOUS LIMESTONE:

029568	TYPE ROCK	REPLICATE	SAMPLER DJT	AIR TEMP(C) + 18.5	WEATHER LT WIND-PT CLDY
	PHASE R	MAP NH1309	SITE H531	RELIEF GENTLE	VEGETATION BRUSH-MODERATE
	LOCATION: LAT	29.583 (29 34'58")	LONG 102.933 (102 55'58")	CONTAMINANTS NONE	STREAM FLOW(M/SEC)
	SURFACE GEOL UNIT UKSE	RESULTS REQ NO	RELEASED 800708	WATER: WIDTH(M)	DEPTH(M) LEVEL
				BED MATERIAL	SAMPLE: COLOR L-YL-GY ODOR NONE

## REMARKS:

1-38 MARAVILLAS CANYON S.W. 7.5 MIN. TOPO., MEAS. ON CALCAREOUS SHALE AND ARGILLACEOUS LIMESTONE UNIT, CALCITE COATS FRACTURE SURFACE:

029569	TYPE ROCK	REPLICATE	SAMPLER DJT	AIR TEMP(C) + 19.0	WEATHER LT WIND-PT CLDY
	PHASE R	MAP NH1309	SITE H532	RELIEF MODERATE	VEGETATION BRUSH-MODERATE
	LOCATION: LAT	29.581 (29 34'51")	LONG 102.932 (102 55'55")	CONTAMINANTS NONE	STREAM FLOW(M/SEC)
	SURFACE GEOL UNIT UKSE	RESULTS REQ NO	RELEASED 800708	WATER: WIDTH(M)	DEPTH(M) LEVEL
				BED MATERIAL	SAMPLE: COLOR M-YL-GY ODOR NONE

## REMARKS:

1-38 MARAVILLAS CANYON S.W. 7.5 MIN. TOPO., MEAS. ON LIMESTONE WITH BLOCKY WEATHERING PATTERN:

029570	TYPE STREAM SEDIMENT	REPLICATE	SAMPLER DJT	AIR TEMP(C) + 21.0	WEATHER -PT CLDY
	PHASE E	MAP NH1309	SITE H533	RELIEF GENTLE	VEGETATION BRUSH-MODERATE
	LOCATION: LAT	29.798 (29 47'52")	LONG 102.943 (102 56'34")	CONTAMINANTS NONE	STREAM FLOW(M/SEC)
	SURFACE GEOL UNIT LKSE	RESULTS REQ YES	RELEASED 800708	WATER: WIDTH(M)	DEPTH(M) LEVEL DRY
				BED MATERIAL	SAMPLE: COLOR M-GY-YL ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 21 ORGANIC MATERIAL(%) 01

## REMARKS:

1-38 DOVE MOUNTAIN 15 MIN. TOPO., COLLECTED IN CENTER GOING UPSTREAM 70M STARTING 200M UPSTREAM OF BEND:

1-51 PEBBLES, COARSE SAND, AND SILT DERIVED FROM L. S. PREDOMINATE SAMPLE:

1-78 HERMAN MAYHEW & 10539 BERRY KNOLL & DALLAS, TX 75230:

029571	TYPE STREAM SEDIMENT	REPLICATE	SAMPLER DJT	AIR TEMP(C) + 21.0	WEATHER -PT CLDY
	PHASE E	MAP NH1309	SITE H534	RELIEF MODERATE	VEGETATION BRUSH-MODERATE

LOCATION: LAT 29.783 (29 46' 58") LONG 102.967 (102 58' 1")

CONTAMINANTS NONE  
WATER: WIDTH(M)STREAM FLOW(M/SEC)  
DEPTH(M)

LEVEL DRY

SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708

BED MATERIAL PEBBLE

SAMPLE: COLOR M-GY-YL ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY

SAMPLE TREATMENT NONE

NUMBER OF GRABS 20

ORGANIC MATERIAL(%) 01

## REMARKS:

1-38 DOVE MOUNTAIN 15 MIN. TOPO., COLLECTED IN CENTER GOING UPSTREAM 75M STARTING 180M UPSTREAM OF CONFLUENCE;

1-51 PEBBLES, COARSE SAND AND SOME SILT COMPOSED OF LIMESTONE AND CHERT FRAGMENTS;

1-78 HERMAN MAYHEW &amp; 10539 BERRY KNOLL &amp; DALLAS, TX. 75230;

029573 TYPE STREAM SEDIMENT REPLICATE SAMPLER DJT

AIR TEMP(C) + 20.0

WEATHER -PT CLDY

PHASE E MAP NH1309 SITE H535 TIME TAKEN 10/18/02/80

RELIEF MODERATE

VEGETATION BRUSH-MODERATE

LOCATION: LAT 29.782 (29 46' 55") LONG 102.959 (102 57' 32")

CONTAMINANTS NONE

STREAM FLOW(M/SEC)

SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708

WATER: WIDTH(M)

DEPTH(M)

LEVEL DRY

BED MATERIAL PEBBLE

SAMPLE: COLOR M-GY-YL ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY

SAMPLE TREATMENT NONE

NUMBER OF GRABS 19

ORGANIC MATERIAL(%) 01

## REMARKS:

1-38 DOVE MOUNTAIN 7.5 MIN. TOPO., COLLECTED IN CENTER GOING UPSTREAM 65M STARTING 200M UPSTREAM OF WINDMILL;

1-51 MED. TO COARSE SAND AND SILT COMPOSED OF LIMESTONE AND CHERT;

1-78 HERMAN MAYHEW &amp; 10539 BERRY KNOLL &amp; DALLAS, TX. 75230;

029574 TYPE ROCK REPLICATE SAMPLER DJT

AIR TEMP(C) + 17.0

WEATHER LT WIND-PT CLDY

PHASE R MAP NH1309 SITE H536 TIME TAKEN 10/19/02/80

RELIEF GENTLE

VEGETATION BRUSH-MODERATE

LOCATION: LAT 29.802 (29 48' 7") LONG 102.929 (102 55' 44")

CONTAMINANTS NONE

STREAM FLOW(M/SEC)

SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708

WATER: WIDTH(M)

DEPTH(M)

LEVEL

BED MATERIAL

SAMPLE: COLOR M-YL-GY ODOR NONE

## REMARKS:

1-38 DOVE MTN. 15 MIN. TOPO., MEAS. ON MASSIVE LIMESTONE CLIFF;

1-78 HERMAN MAYHEW &amp; 10539 BERRY KNOLL &amp; DALLAS, TX. 75230;

029575 TYPE ROCK REPLICATE SAMPLER DJT

AIR TEMP(C) + 19.5

WEATHER LT WIND-PT CLDY

PHASE R MAP NH1309 SITE H537 TIME TAKEN 11/19/02/80

RELIEF MODERATE

VEGETATION BRUSH-MODERATE

LOCATION: LAT 29.799 (29 47' 56") LONG 102.918 (102 55' 4")

CONTAMINANTS NONE

STREAM FLOW(M/SEC)

SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708

WATER: WIDTH(M)

DEPTH(M)

LEVEL

BED MATERIAL

SAMPLE: COLOR M-GY-YL ODOR NONE

## REMARKS:

1-38 DOVE MTN. 15 MIN. TOPO., MEAS. ON M.GY.BN. TO M.YL.OR., FOSSILIFEROUS LIMESTONE;

1-78 HERMAN MAYHEW &amp; 10539 BERRY KNOLL &amp; DALLAS, TX. 75230;

029576 TYPE STREAM SEDIMENT REPLICATE SAMPLER DJT

AIR TEMP(C) + 24.0

WEATHER LT WIND-PT CLDY

PHASE E MAP NH1309 SITE H538 TIME TAKEN 10/19/02/80

RELIEF MODERATE

VEGETATION BRUSH-MODERATE

LOCATION: LAT 29.775 (29 46' 30") LONG 102.871 (102 52' 15")

CONTAMINANTS OTHER

STREAM FLOW(M/SEC)



SURFACE GEOL UNIT UKSE RESULTS REQ YES ,RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
BED MATERIAL SAND SAMPLE: COLOR M-GY-YL ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 01

## REMARKS:

1-38 DOVE MTN, 15 MIN. TOPO., COLLECTED IN CENTER GOING UPSTREAM 70M STARTING 100M UPSTREAM OF CONFLUENCE;  
1-51 COARSE SAND AND SILT COMPOSED OF LIMESTONE AND CHERT FRAG;  
1-60 SLUMPING BANKS AND EARTHEN DAM UPSTREAM;  
1-78 HERMAN MAYHEW & 10539 BERRY KNOLL & DALLAS, TX 75230;

029577 TYPE STREAM SEDIMENT REPLICATE SAMPLER DJT AIR TEMP(C) + 26.0 WEATHER -PT CLDY  
PHASE E MAP NH1309 SITE H539 TIME TAKEN 11/19/02/80 RELIEF GENTLE VEGETATION BRUSH-MODERATE  
LOCATION: LAT 29.780 (29 46'48") LONG 102.863 (102 51'46") CONTAMINANTS OTHER STREAM FLOW(M/SEC)  
SURFACE GEOL UNIT LKSP RESULTS REQ YES ,RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
BED MATERIAL SAMPLE: COLOR L-YL-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION SAMPLE TREATMENT NUMBER OF GRABS 1 ORGANIC MATERIAL(%) 01

## REMARKS:

1-38 DOVE MTN 15 MIN. TOPO., COLLECTED IN CENTER GOING UPSTREAM 70M STARTING 20M UPSTREAM OF FENCE LINE;  
1-51 MED. TO COARSE SAND AND SILT COMPOSED OF L. S. FRAG. AND BANK SLUMP SILT;  
1-60 BANK SLUMP;  
1-78 HERMAN MAYHEW & 10539 BERRY KNOLL & DALLAS, TX 75230;

029578 TYPE STREAM SEDIMENT REPLICATE SAMPLER DJT AIR TEMP(C) + 26.0 WEATHER LT WIND-PT CLDY  
PHASE E MAP NH1309 SITE H540 TIME TAKEN 12/19/02/80 RELIEF LOW VEGETATION BRUSH-MODERATE  
LOCATION: LAT 29.780 (29 46'48") LONG 102.863 (102 51'46") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
SURFACE GEOL UNIT QD RESULTS REQ YES ,RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
BED MATERIAL PEBBLE SAMPLE: COLOR M-YL-GY ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 18 ORGANIC MATERIAL(%) 01

## REMARKS:

1-38 DOVE MTN 15 MIN. TOPO., COLLECTED IN CENTER GOING UPSTREAM 60M STARTING 20M UPSTREAM OF FENCE LINE;  
1-51 MED-GR SAND AND SILT COMPOSED OF LIMESTONE FRAG. DERIVED FROM BOLSON AND LKSE;  
1-78 HERMAN MAYHEW & 10539 BERRY KNOLL & DALLAS, TX, 75230;

029579 TYPE STREAM SEDIMENT REPLICATE SAMPLER DJT AIR TEMP(C) + 27.5 WEATHER -PT CLDY  
PHASE E MAP NH1309 SITE H541 TIME TAKEN 14/19/02/80 RELIEF GENTLE VEGETATION BRUSH-MODERATE  
LOCATION: LAT 29.770 (29 46'12") LONG 102.853 (102 51'10") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
SURFACE GEOL UNIT LKSP RESULTS REQ YES ,RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
BED MATERIAL SAND SAMPLE: COLOR M-YL-GY ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 21 ORGANIC MATERIAL(%) 01

## REMARKS:

1-38 DOVE MTN 15 MIN. TOPO., COLLECTED IN CENTER GOING UPSTREAM 30M STARTING AT PT. WHERE BANKS STEEPEN:  
1-51 MED. TO COARSE-GR SAND AND SILT COMPOSED OF L. S. AND CONTAINING BLACK MINERAL FLAKES, SIGNIFICANT CONTRIB. FROM TI AND LKSE:

1-78 HERMAN MAYHEW & 10539 BERRY KNOLL & DALLAS, TX 75230:

029580	TYPE	STREAM SEDIMENT	REPLICATE	SAMPLER DJT	AIR TEMP(C)	+ 28.0	WEATHER	-PT CLDY
	PHASE	E	MAP NH1309	SITE H542	TIME TAKEN	15/19/02/80	RELIEF	GENTLE
	LOCATION:	LAT 29.773(29 46'22")	LONG	102.835(102 50' 6")	CONTAMINANTS	NONE	VEGETATION	BRUSH-MODERATE
	SURFACE GEOL UNIT	LKSP	RESULTS REQ	YES	RELEASED	800708	WATER: WIDTH(M)	DEPTH(M)
								LEVEL DRY
					BED MATERIAL	SAND	SAMPLE: COLOR	M-YL-GY
								QDQR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION	DRY	SAMPLE TREATMENT	NONE	NUMBER OF GRABS	20	ORGANIC MATERIAL(%)	01
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REMARKS:

1-38 DOVE MTN 15 MIN. TOPO., COLLECTED IN CENTER GOING UPSTREAM 60M STARTING 30M UPSTREAM OF STONE DAM:  
1-51 MED. TO COARSE-GR. SAND AND SILT COMPOSED OF LIMESTONE FRAG SIGNIFICANT CONTRIB FROM LKSE:  
1-78 HERMAN MAYHEW & 10539 BERRY KNOLL & DALLAS, TX 75230:

029581	TYPE	ROCK	REPLICATE	SAMPLER DJT	AIR TEMP(C)	+ 30.0	WEATHER	-PT CLDY
	PHASE	R	MAP NH1309	SITE H543	TIME TAKEN	17/19/02/80	RELIEF	HIGH
	LOCATION:	LAT 29.752(29 45' 7")	LONG	102.861(102 51' 39")	CONTAMINANTS	NONE	VEGETATION	BRUSH-MODERATE
	SURFACE GEOL UNIT	LKLB	RESULTS REQ	YES	RELEASED	800708	WATER: WIDTH(M)	DEPTH(M)
								LEVEL
					BED MATERIAL		SAMPLE: COLOR	M-YL-OR
								QDQR NONE

REMARKS:

1-38 DOVE MTN 15 MIN. TOPO., MEAS. ON M.YL. BN. TO M.YL. OR. CLAY CONTAINING SANDSTONE LENSES:  
1-78 HERMAN MAYHEW & 10539 BERRY KNOLL & DALLAS, TX. 75230:

029582	TYPE	ROCK	REPLICATE	SAMPLER DJT	AIR TEMP(C)	+ 21.0	WEATHER	-PT CLDY
	PHASE	R	MAP NH1309	SITE H544	TIME TAKEN	11/20/02/80	RELIEF	HIGH
	LOCATION:	LAT 29.760(29 45' 36")	LONG	102.856(102 51' 21")	CONTAMINANTS	NONE	VEGETATION	BRUSH-MODERATE
	SURFACE GEOL UNIT	LKSE	RESULTS REQ	YES	RELEASED	800708	WATER: WIDTH(M)	DEPTH(M)
								LEVEL
					BED MATERIAL		SAMPLE: COLOR	L-BN-GY
								QDQR NONE

REMARKS:

1-38 DOVE MTN 15 MIN. TOPO., MEAS ON GRAY, HIGHLY FRACTURED L.S. WITH NUMEROUS VEINS AND PODS OF CALCITE:  
1-78 HERMAN MAYHEW & 10539 BERRY KNOLL & DALLAS, TX. 75230:

029583	TYPE	ROCK	REPLICATE	SAMPLER DJT	AIR TEMP(C)	+ 20.0	WEATHER	-PT CLDY
	PHASE	R	MAP NH1309	SITE H545	TIME TAKEN	11/20/02/80	RELIEF	HIGH
	LOCATION:	LAT 29.759(29 45' 32")	LONG	102.854(102 51' 14")	CONTAMINANTS	NONE	VEGETATION	BRUSH-MODERATE
	SURFACE GEOL UNIT	LKSE	RESULTS REQ	YES	RELEASED	800708	WATER: WIDTH(M)	DEPTH(M)
								LEVEL
					BED MATERIAL		SAMPLE: COLOR	M-GY-BN
								QDQR NONE

REMARKS:

1-38 DOVE MTN 15 MIN. TOPO., MEAS. ON MASSIVE LIMESTONE BEDS WHICH ARE LOCALLY HIGHLY FRACTURED:  
1-78 HERMAN MAYHEW & 10539 BERRY KNOLL & DALLAS, TX. 75230:



029584 TYPE ROCK REPLICATE SAMPLER DJT AIR TEMP(C) + 24.0 WEATHER -PT CLDY  
 PHASE R MAP NH1309 SITE H546 TIME TAKEN 12/20/02/80 RELIEF HIGH VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.757(29 45'25") LONG 102.847(102 50'49") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT T1 RESULTS REQ YES, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL  
 BED MATERIAL SAMPLE: COLOR M-BK-GY ODOR NONE

## REMARKS:

1-38 DOVE MTN. 15 MIN. TOPO., MEAS. ON HIGHLY WEATHERED, COARSELY CRYSTALLINE INTRUSIVE ROCK CONTAINING PHENOCRYSTS OF  
 HORNBLLENDE OR PYROXENE IN A FELDSPAR GROUNDMASS;  
 1-78 HERMAN MAYHEW & 10539 BERRY KNOLL & DALLAS, TX 75230;

029585 TYPE ROCK REPLICATE SAMPLER DJT AIR TEMP(C) + 25.5 WEATHER -PT CLDY  
 PHASE R MAP NH1309 SITE H546 TIME TAKEN 13/20/02/80 RELIEF HIGH VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.757(29 45'25") LONG 102.847(102 50'49") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT LKLB RESULTS REQ YES, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL  
 BED MATERIAL SAMPLE: COLOR D-BN-GY ODOR NONE

## REMARKS:

1-38 DOVE MTN. 15 MIN. TOPO., MEAS. ON MASSIVE LIMESTONE LEDGE ABOVE INTRUSIVE ROCK, EXTREMELY STREAKY DUE TO BAKING INTRUSIVE  
 ROCK IS ABOVE L.S. UNIT ALSO;  
 1-78 HERMAN MAYHEW & 10539 BERRY KNOLL & DALLAS, TX 75230;

029586 TYPE ROCK REPLICATE SAMPLER DJT AIR TEMP(C) + 26.0 WEATHER -PT CLDY  
 PHASE R MAP NH1309 SITE H546 TIME TAKEN 13/20/02/80 RELIEF HIGH VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.757(29 45'25") LONG 102.847(102 50'49") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT T1 RESULTS REQ YES, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL  
 BED MATERIAL SAMPLE: COLOR D-GN-BN ODOR NONE

## REMARKS:

1-38 DOVE MTN 15 MIN. TOPO., MEAS. ON D.GN, BN. TO D.GY. FINE-GRAINED INTRUSIVE ROCK, WEATHERS TO M, OR BN. ;  
 1-78 HERMAN MAYHEW & 10539 BERRY KNOLL & DALLAS, TX 75230;

029587 TYPE ROCK REPLICATE SAMPLER DJT AIR TEMP(C) + 27.5 WEATHER -PT CLDY  
 PHASE R MAP NH1309 SITE H549 TIME TAKEN 14/20/02/80 RELIEF HIGH VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.751(29 45' 3") LONG 102.860(102 51'36") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT LKLB RESULTS REQ YES, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL  
 BED MATERIAL SAMPLE: COLOR M-YL-BN ODOR NONE

## REMARKS:

1-38 DOVE MTN 15 MIN. TOPO., MEAS. ON THIN TO MASSIVE-BEDDED LIMESTONE CONTAINING SHALEY LAYERS;  
 1-78 HERMAN MAYHEW & 10539 BERRY KNOLL & DALLAS, TX 75230;

029588 TYPE ROCK REPLICATE SAMPLER DJT AIR TEMP(C) + 28.0 WEATHER -PT CLDY  
 PHASE R MAP NH1309 SITE H550 TIME TAKEN 16/20/02/80 RELIEF HIGH VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.754(29 45'14") LONG 102.866(102 51'57") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT TEU RESULTS REQ YES, RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL  
 BED MATERIAL SAMPLE: COLOR D-BN-GY ODOR NONE

## REMARKS:

1-38 DOVE MTN. 15 MIN. TOPO., MEAS. ON FINE-GRAINED EXTRUSIVE ROCK;  
1-78 HERMAN MAYHEW & 10539 BERRY KNOLL & DALLAS, TX 75230;

029589 TYPE ROCK REPLICATE SAMPLER DJT AIR TEMP(C) + 25.0 WEATHER -PT CLDY  
PHASE R MAP NH1309 SITE H551 TIME TAKEN 16/20/02/80 RELIEF GENTLE VEGETATION BRUSH-MODERATE  
LOCATION: LAT 29.759 (29 45'32") LONG 102.867 (102 52' 1") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
WATER: WIDTH(M) DEPTH(M) LEVEL  
SURFACE GEOL UNIT UKSE RESULTS REQ YES, RELEASED 800708 BED MATERIAL SAMPLE: COLOR M-YL-BN ODOR NONE

## REMARKS:

1-38 DOVE MTN. 15 MIN. TOPO., MEAS. ON FLAGGY LIMESTONE IN BULLDOZER OUTCROP SOME SURFACES WERE SLICKENSIDED;  
1-78 HERMAN MAYHEW & 10539 BERRY KNOLL & DALLAS, TX 75230;

029590 TYPE STREAM SEDIMENT REPLICATE SAMPLER DJT AIR TEMP(C) + 26.0 WEATHER LT WIND-CLEAR  
PHASE E MAP NH1309 SITE H552 TIME TAKEN 12/22/02/80 RELIEF HIGH VEGETATION BRUSH-DENSE  
LOCATION: LAT 29.537 (29 32'13") LONG 102.793 (102 47'34") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
SURFACE GEOL UNIT LKSP RESULTS REQ YES, RELEASED 800708 BED MATERIAL SILT SAMPLE: COLOR M-GY-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 18 ORGANIC MATERIAL(%) 01

## REMARKS:

1-38 MARAVILLAS CANYON S.E. 7.5 MIN. TOPO., COLLECTED IN CENTER GOING UPSTREAM 60M STARTING 20M UPSTREAM OF CONFLUENCE;  
1-51 MED. TO COARSE SAND AND SILT COMPOSED OF LIMESTONE AND MINOR BASALTIC FRAG.;  
1-78 BOB WEST & REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029591 TYPE ROCK REPLICATE SAMPLER DJT AIR TEMP(C) + 32.0 WEATHER LT WIND-CLEAR  
PHASE R MAP NH1309 SITE H553 TIME TAKEN 11/22/02/80 RELIEF HIGH VEGETATION BRUSH-MODERATE  
LOCATION: LAT 29.538 (29 32'16") LONG 102.793 (102 47'34") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
WATER: WIDTH(M) DEPTH(M) LEVEL  
SURFACE GEOL UNIT LKSP RESULTS REQ YES, RELEASED 800708 BED MATERIAL SAMPLE: COLOR M-BN-GY ODOR NONE

## REMARKS:

1-38 MARAVILLAS CANYON S.E. 7.5 MIN. TOPO., MEAS. ON FLAGGY ARGILLACEOUS LIMESTONE;  
1-78 BOB WEST & REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029592 TYPE STREAM SEDIMENT REPLICATE SAMPLER DJT AIR TEMP(C) + 36.0 WEATHER LT WIND-PJ CLDY  
PHASE E MAP NH1309 SITE H554 TIME TAKEN 14/22/02/80 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
LOCATION: LAT 29.524 (29 31'26") LONG 102.822 (102 49'19") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
SURFACE GEOL UNIT LKSP RESULTS REQ YES, RELEASED 800708 BED MATERIAL SILT SAMPLE: COLOR M-YL-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%) 02

## REMARKS:

1-38 MARAVILLAS CANYON S. E. 7.5 MIN. TOPO., COLLECTED IN CENTER GOING UPSTREAM 50M STARTING 30M UPSTREAM OF CONFLUENCE;  
1-51 SILT, COARSE SAND, AND PEBBLES COMPOSED OF LIMESTONE FRAG;



1-78 BOB WEST & REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901:

029595 TYPE STREAM SEDIMENT REPLICATE SAMPLER JHF AIR TEMP(C) + 28.0 WEATHER LT WIND-PT CLDY  
 PHASE E MAP NH1309 SITE H557 TIME TAKEN 09/18/02/80 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.739 (29 44' 20") LONG 102.880 (102 52' 48") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 BED MATERIAL SAND SAMPLE: COLOR M-YL-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 18 ORGANIC MATERIAL(%) 02

## REMARKS:

1-38 MARAVILLAS CANYON NW 7.5 MIN QUAD COLLECTED IN THE CENTER GOING UPSTREAM OVER A 66M INTERVAL STARTING 80M UPSTREAM FROM  
 DIRT ROAD CROSSING;

1-51 #1-54 LIMESTONE, VOLCANIC FRAGMENTS;

1-78 HERMAN MAHEW & 10539 BERRY KNOLL & DALLAS, TX 75230;

029596 TYPE OTHER REPLICATE SAMPLER JHF AIR TEMP(C) + 28.0 WEATHER -PT CLDY  
 PHASE R MAP NH1309 SITE H558 TIME TAKEN 10/18/02/80 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.738 (29 44' 16") LONG 102.881 (102 52' 51") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 BED MATERIAL SAND SAMPLE: COLOR L-GY-BN ODOR NONE

## REMARKS:

1-38 MARAVILLAS CANYON NW 7.5 MIN QUAD READING TAKEN ON FINE GRAINED, FLAGGY LIMESTONE IN STREAM CHANNEL 10M SOUTH OF ROAD;

1-78 HERMAN MAHEW & 10539 BERRY KNOLL & DALLAS, TX 75230;

029597 TYPE STREAM SEDIMENT REPLICATE SAMPLER JHF AIR TEMP(C) + 29.0 WEATHER LT WIND-PT CLDY  
 PHASE E MAP NH1309 SITE H559 TIME TAKEN 10/18/02/80 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.725 (29 43' 30") LONG 102.886 (102 53' 9") CONTAMINANTS OTHER STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 BED MATERIAL SILT SAMPLE: COLOR D-YL-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 19 ORGANIC MATERIAL(%) 05

## REMARKS:

1-38 MARAVILLAS CANYON NW 7.5 MIN QUAD COLLECTED IN THE CENTER GOING UPSTREAM OVER A 70M INTERVAL STARTING 35M UPSTREAM FROM  
 DIRT ROAD CROSSING;

1-51 #1-54 SILT AND CLAY WITH DESSICATION CRACKS;

1-60 STREAM SEDIMENT FORMING SOIL;

1-78 HERMAN MAHEW & 10539 BERRY KNOLL & DALLAS, TX 75230;

029598 TYPE STREAM SEDIMENT REPLICATE SAMPLER JHF AIR TEMP(C) + 30.0 WEATHER LT WIND-PT CLDY  
 PHASE E MAP NH1309 SITE H560 TIME TAKEN 11/18/02/80 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.722 (29 43' 19") LONG 102.887 (102 53' 13") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 BED MATERIAL PEBBLE SAMPLE: COLOR L-YL-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 17 ORGANIC MATERIAL (%) 01

## REMARKS:

I-38 MARAVILLAS CANYON NW 7.5 MIN QUAD COLLECTED IN THE CENTER GOING UPSTREAM OVER A 58M INTERVAL STARTING 80M UPSTREAM FROM DIRT ROAD CROSSING:

I-51 #1-54 POORLY SORTED LIMESTONE, TRACE VOLCANIC FRAGMENTS:

I-78 HERMAN MAHEW & 10539 BERRY KNOLL & DALLAS, TX 75230:

029599 TYPE STREAM SEDIMENT REPLICATE SAMPLER JHF AIR TEMP(C) + 31.0 WEATHER -PT CLDY  
 PHASE E MAP NH1309 SITE H561 TIME TAKEN 12/18/02/80 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.717 (29 43' 1") LONG 102.891 (102 53' 27") CONTAMINANTS NONE STREAM FLOW (M/SEC)  
 WATER: WIDTH (M) DEPTH (M) LEVEL DRY  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 BED MATERIAL PEBBLE SAMPLE: COLOR M-YL-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 19 ORGANIC MATERIAL (%) 01

## REMARKS:

J-38 MARAVILLAS CANYON NW 7.5 MIN QUAD COLLECTED IN THE CENTER GOING UPSTREAM OVER A 60M INTERVAL STARTING 70M DOWNSTREAM FROM CONFLUENCE:

J-51 #1-54 POORLY SORTED LIMESTONE FRAGMENTS:

J-78 HERMAN MAHEW & 10539 BERRY KNOLL & DALLAS, TX 75230:

029600 TYPE STREAM SEDIMENT REPLICATE SAMPLER JHF AIR TEMP(C) + 32.0 WEATHER LT WIND-PT CLDY  
 PHASE E MAP NH1309 SITE H562 TIME TAKEN 13/18/02/80 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.706 (29 42' 21") LONG 102.893 (102 53' 34") CONTAMINANTS NONE STREAM FLOW (M/SEC)  
 WATER: WIDTH (M) DEPTH (M) LEVEL DRY  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 BED MATERIAL PEBBLE SAMPLE: COLOR M-YL-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 19 ORGANIC MATERIAL (%) 02

## REMARKS:

I-38 MARAVILLAS CANYON 7.5 MIN QUAD COLLECTED IN THE CENTER GOING UPSTREAM OVER A 50M INTERVAL STARTING 40M UPSTREAM FROM CONFLUENCE:

I-51 #1-54 POORLY SORTED LIMESTONE FRAGMENTS, TRACE AMT. OF VOLCANICS:

J-78 HERMAN MAHEW & 10539 BERRY KNOLL & DALLAS, TX 75230:

029601 TYPE STREAM SEDIMENT REPLICATE SAMPLER JHF AIR TEMP(C) + 33.0 WEATHER LT WIND-PJ CLDY  
 PHASE E MAP NH1309 SITE H563 TIME TAKEN 13/18/02/80 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.702 (29 42' 7") LONG 102.887 (102 53' 13") CONTAMINANTS NONE STREAM FLOW (M/SEC)  
 WATER: WIDTH (M) DEPTH (M) LEVEL DRY  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 BED MATERIAL PEBBLE SAMPLE: COLOR M-YL-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 18 ORGANIC MATERIAL (%) 01

## REMARKS:

I-38 MARAVILLAS CANYON NW 7.5 MIN QUAD COLLECTED IN THE CENTER GOING UPSTREAM OVER A 54M INTERVAL STARTING 28M UPSTREAM FROM POINT AT WHICH JEEP TRAIL ENTERS CHANNEL:



1-51 #1-54 LIMESTONE, VOLCANIC SAND, SILT AND CLAY WITH DESICCATION CRACKS;  
1-78 HERMAN MAHEW & 10539 BERRY KNOLL & DALLAS, TX 75230;

029602 TYPE OTHER REPLICATE SAMPLER JHF AIR TEMP(C) + 31.0 WEATHER LT WIND-CLEAR  
PHASE R MAP NH1309 SITE H564 TIME TAKEN 14/18/02/80 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
LOCATION: LAT 29.700 (29 42' 0") LONG 102.890 (102 53' 24") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
WATER: WIDTH(M) DEPTH(M) LEVEL  
SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 BED MATERIAL SAMPLE: COLOR M-RD-BN ODOR NONE

REMARKS:

1-38 MARAVILLAS CANYON NW 7.5 MIN QUAD READING TAKEN ON PROMINENT KNOB OF SCORLATED EXTRUSIVE VOLCANIC ROCK;  
1-78

029603 TYPE STREAM SEDIMENT REPLICATE SAMPLER JHF AIR TEMP(C) + 32.0 WEATHER LT WIND-CLEAR  
PHASE E MAP NH1309 SITE H565 TIME TAKEN 14/18/02/80 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
LOCATION: LAT 29.699 (29 41' 56") LONG 102.882 (102 52' 55") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 BED MATERIAL PEBBLE SAMPLE: COLOR M-YL-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 16 ORGANIC MATERIAL (%) 01

REMARKS:

1-38 MARAVILLAS CANYON 7.5 MIN QUAD COLLECTED IN THE CENTER GOING UPSTREAM OVER A 70M INTERVAL STARTING 20M UPSTREAM FROM DIRT ROAD CROSSING;  
1-51 #1-54 POORLY SORTED LIMESTONE, EXTRUSIVE VOLCANIC FRAGMENTS;  
1-78 HERMAN MAHEW & 10539 BERRY KNOLL & DALLAS TX 75230;

029604 TYPE STREAM SEDIMENT REPLICATE SAMPLER JHF AIR TEMP(C) + 33.0 WEATHER -CLEAR  
PHASE E MAP NH1309 SITE H566 TIME TAKEN 16/18/02/80 RELIEF MODERATE VEGETATION BRUSH-SPARSE  
LOCATION: LAT 29.687 (29 41' 13") LONG 102.890 (102 53' 24") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 BED MATERIAL PEBBLE SAMPLE: COLOR L-YL-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 16 ORGANIC MATERIAL (%) 01

REMARKS:

1-38 MARAVILLAS CANYON NW 7.5 MIN QUAD COLLECTED IN THE CENTER GOING UPSTREAM OVER A 54M INTERVAL STARTING 85M UPSTREAM FROM CONFLUENCE;  
1-51 #1-54 LIMESTONE FRAGMENTS;  
1-78 HERMAN MAHEW & 10539 BERRY KNOLL & DALLAS, TX 75230;

029605 TYPE STREAM SEDIMENT REPLICATE SAMPLER JHF AIR TEMP(C) + 33.0 WEATHER -CLEAR  
PHASE E MAP NH1309 SITE H567 TIME TAKEN 16/18/02/80 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
LOCATION: LAT 29.690 (29 41' 24") LONG 102.886 (102 53' 9") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 BED MATERIAL PEBBLE SAMPLE: COLOR M-YL-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 15 ORGANIC MATERIAL (%) 01

## REMARKS:

1-38 MARAVILLAS CANYON NW 7.5 MIN QUAD COLLECTED IN THE CENTER GOING UPSTREAM OVER A 56M INTERVAL STARTING 44M UPSTREAM FROM CONFLUENCE  
1-51 #1-54 LIMESTONE FRAGMENTS, SOME VOLCANIC FRAGMENTS:  
1-78 HERMAN MAHEW & 10539 BERRY KNOLL & DALLAS, TX 75230:

029606 TYPE OTHER REPLICATE SAMPLER JHF AIR TEMP(C) + 33.0 WEATHER LT WIND-CLEAR  
PHASE R MAP NH1309 SITE H568 TIME TAKEN 16/18/02/80 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
LOCATION: LAT 29.693 (29 41'34") LONG 102.880 (102 52'48") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
WATER: WIDTH(M) DEPTH(M) LEVEL  
SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 BED MATERIAL SAMPLE: COLOR L-GY-YL ODOR NONE

## REMARKS:

1-38 MARAVILLAS CANYON NW 7.5 MIN QUAD READING TAKEN ON OUTCROP OF MASSIVE, FINE GRAINED LIMESTONE 35M EAST OF ROAD:  
1-78 HERMAN MAHEW & 10539 BERRY KNOLL & DALLAS TX 75230:

029607 TYPE STREAM SEDIMENT REPLICATE SAMPLER JHF AIR TEMP(C) + 32.0 WEATHER -CLEAR  
PHASE E MAP NH1309 SITE H569 TIME TAKEN 13/19/02/80 RELIEF MODERATE VEGETATION BRUSH-DENSE  
LOCATION: LAT 29.539 (29 32'20") LONG 102.841 (102 50'27") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
SURFACE GEOL UNIT LKSE RESULTS REQ NO, RELEASED 800708 BED MATERIAL PEBBLE SAMPLE: COLOR M-YL-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 16 ORGANIC MATERIAL (%) 01

## REMARKS:

J-38 MARAVILLAS CANYON SE 7.5 MIN QUAD COLLECTED IN THE CENTER GOING UPSTREAM OVER A 56M INTERVAL STARTING 220M UPSTREAM FROM CONFLUENCE:  
J-51 #1-54 POORLY SORTED LIMESTONE, VOLCANIC FRAGMENTS:  
J-78 BOB WEST & TEXAS PARKS AND WILDLIFE & 3407 S CHADBOURNE & SAN ANGELO, TX 76901:

029608 TYPE STREAM SEDIMENT REPLICATE SAMPLER JHF AIR TEMP(C) + 34.0 WEATHER LT WIND-CLEAR  
PHASE E MAP NH1309 SITE H570 TIME TAKEN 15/19/02/80 RELIEF MODERATE VEGETATION BRUSH-DENSE  
LOCATION: LAT 29.554 (29 33'14") LONG 102.858 (102 51'28") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
SURFACE GEOL UNIT LKSE RESULTS REQ NO, RELEASED 800708 BED MATERIAL PEBBLE SAMPLE: COLOR M-YL-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 16 ORGANIC MATERIAL (%) 01

## REMARKS:

J-38 MARAVILLAS CANYON SE 7.5 MIN QUAD COLLECTED IN THE CENTER GOING UPSTREAM OVER A 64M INTERVAL STARTING 160M FROM CONFLUENCE:  
J-51 #1-54 POORLY SORTED LIMESTONE, VOLCANIC FRAGMENTS:  
J-78 BOB WEST & TEXAS PARKS AND WILDLIFE & 3407 S CHADBOURNE & SAN ANGELO, TX 76901:



029609 TYPE OTHER REPLICATE SAMPLER JHF AIR TEMP(C) + 31.0 WEATHER LT WIND-CLEAR  
 PHASE P MAP NH1309 SITE H571 TIME TAKEN 10/21/02/80 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.612(29 36'43") LONG 102.908(102 54'28") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT LKSE RESULTS REQ NO ,RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL  
 BED MATERIAL SAMPLE: COLOR L-GY-YL ODOR NONE

REMARKS:  
 I-38 MARAVILLAS CANYON SW 7.5 MIN QUAD READING TAKEN ON BEDDED LIMESTONE:

029610 TYPE OTHER REPLICATE SAMPLER JHF AIR TEMP(C) + 34.0 WEATHER LT WIND-CLEAR  
 PHASE R MAP NH1309 SITE H572 TIME TAKEN 11/21/02/80 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.612(29 36'43") LONG 102.912(102 54'43") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT LKSE RESULTS REQ NO ,RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL  
 BED MATERIAL SAMPLE: COLOR M-RD-BN ODOR NONE

REMARKS:  
 I-38 MARAVILLAS CANYON 7.5 MIN QUAD READING TAKEN ON OUTCROP OF CALCAREOUS SHALE WITH IRON RICH COATINGS ON BEDDING PLANES:

029611 TYPE OTHER REPLICATE SAMPLER JHF AIR TEMP(C) + 34.0 WEATHER LT WIND-CLEAR  
 PHASE R MAP NH1309 SITE H573 TIME TAKEN 11/21/02/80 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.614(29 36'50") LONG 102.913(102 54'46") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT TEW RESULTS REQ YES ,RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL  
 BED MATERIAL SAMPLE: COLOR - -OT ODOR NONE

REMARKS:  
 J-38 MARAVILLAS CANYON SW 7.5 MIN QUAD READING TAKEN ON PURPLE WEATHERED VOLCANIC ROCK WITH NUMEROUS PORE SPACES, ZEOLITE AND CHALCEDONY FILLINGS:

029612 TYPE OTHER REPLICATE SAMPLER JHF AIR TEMP(C) + 33.0 WEATHER LT WIND-CLEAR  
 PHASE R MAP NH1309 SITE H574 TIME TAKEN 12/21/02/80 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.613(29 36'46") LONG 102.920(102 55'12") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT LKSE RESULTS REQ NO ,RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL  
 BED MATERIAL SAMPLE: COLOR L-YL-GY ODOR NONE

REMARKS:  
 J-38 MARAVILLAS CANYON SW 7.5 MIN QUAD READING TAKEN ON OUTCROP OF BEDDED FOSSILIFEROUS LIMESTONE:

029613 TYPE OTHER REPLICATE SAMPLER JHF AIR TEMP(C) + 34.0 WEATHER LT WIND-CLEAR  
 PHASE R MAP NH1309 SITE H575 TIME TAKEN 13/21/02/80 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.617(29 37' J") LONG 102.926(102 55'33") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
 SURFACE GEOL UNIT UKSE RESULTS REQ NO ,RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL  
 BED MATERIAL SAMPLE: COLOR M-GY-YL ODOR NONE

REMARKS:  
 I-38 MARAVILLAS CANYON SW 7.5 MIN QUAD READING TAKEN ON CALCAREOUS SHALE:

029614 TYPE OTHER REPLICATE SAMPLER JHF AIR TEMP(C) + 34.0 WEATHER LT WIND-CLEAR

PHASE R MAP NH1309 SITE H576 TIME TAKEN 14/21/02/80  
 LOCATION: LAT 29.624 (29 37'26") LONG 102.932 (102 55'55")

RELIEF MODERATE VEGETATION BRUSH-MODERATE  
 CONTAMINANTS NONE STREAM FLOW(M/SEC)

SURFACE GEOL UNIT TEV RESULTS REQ NO ,RELEASED 800708

WATER: WIDTH(M) DEPTH(M) LEVEL  
 BED MATERIAL SAMPLE: COLOR M-RD-BN ODOR NONE

## REMARKS:

1-38 MARAVILLAS CANYON 7.5 MIN QUAD READING TAKEN ON EXTRUSIVE VOLCANIC RESEMBLING SCORIA, ZEOLITE, QUARTZ FILLINGS;

029615 TYPE OTHER REPLICATE SAMPLER JHF  
 PHASE R MAP NH1309 SITE H577 TIME TAKEN 15/21/02/80  
 LOCATION: LAT 29.524 (29 31'26") LONG 102.926 (102 55'33")

AIR TEMP(C) + 32.0 WEATHER LT WIND-CLEAR  
 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
 CONTAMINANTS NONE STREAM FLOW(M/SEC)

SURFACE GEOL UNIT QD RESULTS REQ NO ,RELEASED 800708

WATER: WIDTH(M) DEPTH(M) LEVEL  
 BED MATERIAL SAMPLE: COLOR L-YL-GY ODOR NONE

## REMARKS:

J-38 MARAVILLAS CANYON SW 7.5 MIN QUAD READING TAKEN ON TERRACE GRAVEL SURFACE WITH DOMINANTLY LIMESTONE FRAGMENTS;

029616 TYPE OTHER REPLICATE SAMPLER JHF  
 PHASE R MAP NH1309 SITE H578 TIME TAKEN 15/21/02/80  
 LOCATION: LAT 29.520 (29 31'12") LONG 102.927 (102 55'37")

AIR TEMP(C) + 33.0 WEATHER LT WIND-CLEAR  
 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
 CONTAMINANTS NONE STREAM FLOW(M/SEC)

SURFACE GEOL UNIT LKSE RESULTS REQ NO ,RELEASED 800708

WATER: WIDTH(M) DEPTH(M) LEVEL  
 BED MATERIAL SAMPLE: COLOR L-YL-GY ODOR NONE

## REMARKS:

1-38 MARAVILLAS CANYON SW 7.5 MIN QUAD READING TAKEN ON MASSIVE, FINE-GRAINED LIMESTONE;

029617 TYPE OTHER REPLICATE SAMPLER JHF  
 PHASE R MAP NH1309 SITE H579 TIME TAKEN 16/21/02/80  
 LOCATION: LAT 29.517 (29 31' 1") LONG 102.926 (102 55'33")

AIR TEMP(C) + 33.0 WEATHER LT WIND-CLEAR  
 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
 CONTAMINANTS NONE STREAM FLOW(M/SEC)

SURFACE GEOL UNIT LKSE RESULTS REQ NO ,RELEASED 800708

WATER: WIDTH(M) DEPTH(M) LEVEL  
 BED MATERIAL SAMPLE: COLOR L-YL-GY ODOR NONE

## REMARKS:

J-38 MARAVILLAS CANYON SW 7.5 MIN QUAD READING TAKEN ON MASSIVE, FINE GRAINED LIMESTONE;

029618 TYPE OTHER REPLICATE SAMPLER JHF  
 PHASE R MAP NH1309 SITE H580 TIME TAKEN 16/21/02/80  
 LOCATION: LAT 29.510 (29 30'36") LONG 102.920 (102 55'12")

AIR TEMP(C) + 34.0 WEATHER LT WIND-CLEAR  
 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
 CONTAMINANTS NONE STREAM FLOW(M/SEC)

SURFACE GEOL UNIT LKSE RESULTS REQ NO ,RELEASED 800708

WATER: WIDTH(M) DEPTH(M) LEVEL  
 BED MATERIAL SAMPLE: COLOR L-YL-GY ODOR NONE

## REMARKS:

1-38 MARAVILLAS CANYON SW 7.5 MIN QUAD READING TAKEN ON MASSIVE, FINE GRAINED LIMESTONE;

029631 TYPE STREAM SEDIMENT REPLICATE SAMPLER CJS  
 PHASE E MAP NH1309 SITE H591 TIME TAKEN 13/18/02/80  
 LOCATION: LAT 29.805 (29 48'18") LONG 102.949 (102 56'56")

AIR TEMP(C) + 25.5 WEATHER -PT CLDY  
 RELIEF GENTLE VEGETATION BRUSH-MODERATE  
 CONTAMINANTS NONE STREAM FLOW(M/SEC)



SURFACE GEOL UNIT LKSE RESULTS REQ YES ,RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
BED MATERIAL PEBBLE SAMPLE: COLOR L-GY-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL (%)

## REMARKS:

1-38 DOVE MOUNTAIN 15' QUAD, SAMPLE COLLECTED OVER A 60M INTERVAL GOING UPSTREAM STARTING 35M UPSTREAM FROM ROAD:

1-51 LIMESTONE FRAGMENTS:

1-78 HERMAN MAYHEW & 13059 BERRY KNOLL & DALLAS, TX 75230:

029632 TYPE OTHER REPLICATE SAMPLER CJS AIR TEMP(C) + 25.5 WEATHER U WINDY-PT CLDY  
PHASE R MAP NH1309 SITE H592 TIME TAKEN 13/18/02/80 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
LOCATION: LAT 29.805 (29 48' 18") LONG 102.949 (102 56' 56") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
WATER: WIDTH(M) DEPTH(M) LEVEL  
SURFACE GEOL UNIT LKSE RESULTS REQ NO ,RELEASED 800708 BED MATERIAL SAMPLE: COLOR L-GY-WH ODOR NONE

## REMARKS:

1-38 DOVE MOUNTAIN 15' QUAD, READING TAKEN ON LIMESTONE OUTCROP ON NORTH SIDE OF STREAM BED:

029633 TYPE STREAM SEDIMENT REPLICATE SAMPLER CJS AIR TEMP(C) + 26.0 WEATHER -PT CLDY  
PHASE E MAP NH1309 SITE H593 TIME TAKEN 14/18/02/80 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
LOCATION: LAT 29.793 (29 47' 34") LONG 102.955 (102 57' 18") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
SURFACE GEOL UNIT LKSE RESULTS REQ YES ,RELEASED 800708 BED MATERIAL PEBBLE SAMPLE: COLOR L-GY-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 18 ORGANIC MATERIAL (%) 01

## REMARKS:

1-38 DOVE MOUNTAIN 15' QUAD, SAMPLE COLLECTED OVER A 55M INTERVAL GOING UPSTREAM STARTING 10M UPSTREAM FROM ROAD CROSSING:

1-51 LIMESTONE FRAGMENTS:

1-78 HERMAN MAYHEW & 13059 BERRY KNOLL & DALLAS, TX 75230:

029634 TYPE STREAM SEDIMENT REPLICATE SAMPLER CJS AIR TEMP(C) + 26.5 WEATHER -PT CLDY  
PHASE E MAP NH1309 SITE H594 TIME TAKEN 14/18/02/80 RELIEF GENTLE VEGETATION BRUSH-MODERATE  
LOCATION: LAT 29.787 (29 47' 13") LONG 102.958 (102 57' 28") CONTAMINANTS NONE STREAM FLOW(M/SEC)  
WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
SURFACE GEOL UNIT LKSE RESULTS REQ YES ,RELEASED 800708 BED MATERIAL PEBBLE SAMPLE: COLOR L-GY-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 19 ORGANIC MATERIAL (%)

## REMARKS:

1-38 DOVE MOUNTAIN 15' QUAD., SAMPLE COLLECTED OVER A 70M INTERVAL GOING UPSTREAM STARTING 15M UPSTREAM FROM ROAD:

1-51 LIMESTONE FRAGMENTS:

1-78 HERMAN MAYHEW & 13059 BERRY KNOLL & DALLAS, TX 75230:

029635 TYPE STREAM SEDIMENT REPLICATE SAMPLER CJS AIR TEMP(C) + 28.5 WEATHER -PT CLDY

PHASE E MAP NH1309 SITE H595 TIME TAKEN 15/18/02/80 RELIEF MODERATE VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.784 (29 47' 2") LONG 102.978 (102 58' 40") CONTAMINANTS NONE STREAM FLOW (M/SEC)  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES, RELEASED 800708 WATER: WIDTH (M) DEPTH (M) LEVEL DRY  
 BED MATERIAL PEBBLE SAMPLE: COLOR L-GY-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 17 ORGANIC MATERIAL (%)

## REMARKS:

1-38 DOVE MOUNTAIN 15' QUAD, SAMPLE COLLECTED OVER A 60M INTERVAL GOING UPSTREAM STARTING 60M UPSTREAM FROM CONFLUENCE;  
 1-51 LIMESTONE FRAGMENTS;  
 1-78 HERMAN MAYHEW & 13059 BERRY KNOLL & DALLAS, TX 75230;

029636 TYPE STREAM SEDIMENT REPLICATE SAMPLER CJS AIR TEMP (C) + 28.0 WEATHER U WINDY-CLEAR  
 PHASE E MAP NH1309 SITE H596 TIME TAKEN 15/19/02/80 RELIEF GENTLE VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.784 (29 47' 2") LONG 102.981 (102 58' 51") CONTAMINANTS NONE STREAM FLOW (M/SEC)  
 SURFACE GEOL UNIT QD RESULTS REQ YES, RELEASED 800708 WATER: WIDTH (M) DEPTH (M) LEVEL DRY  
 BED MATERIAL PEBBLE SAMPLE: COLOR L-GY-BN ODOR NONE

## SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL (%)

## REMARKS:

1-38 DOVE MOUNTAIN 15' QUAD, SAMPLE COLLECTED OVER A 50M INTERVAL GOING UPSTREAM STARTING 70M UPSTREAM FROM CONFLUENCE;  
 1-51 LIMESTONE FRAGMENTS;  
 1-78 HERMAN MAYHEW & 13059 BERRY KNOLL & DALLAS, TX 75230;

029637 TYPE OTHER REPLICATE SAMPLER CJS AIR TEMP (C) + 29.0 WEATHER  
 PHASE R MAP NH1309 SITE H597 TIME TAKEN 15/19/02/80 RELIEF VEGETATION  
 LOCATION: LAT 29.784 (29 47' 2") LONG 102.963 (102 57' 46") CONTAMINANTS NONE STREAM FLOW (M/SEC)  
 SURFACE GEOL UNIT TJ RESULTS REQ NO, RELEASED 800708 WATER: WIDTH (M) DEPTH (M) LEVEL  
 BED MATERIAL SAMPLE: COLOR M-BN-GY ODOR NONE

## REMARKS:

1-38 DOVE MOUNTAIN 15' QUAD, READING TAKEN NEAR TOP OF COARSE GRAINED INTRUSIVE VOLCANIC ROCK OUTCROP;

029638 TYPE OTHER REPLICATE SAMPLER CJS AIR TEMP (C) + 28.5 WEATHER  
 PHASE R MAP NH1309 SITE H598 TIME TAKEN 15/19/02/80 RELIEF VEGETATION  
 LOCATION: LAT 29.777 (29 46' 37") LONG 102.953 (102 57' 10") CONTAMINANTS NONE STREAM FLOW (M/SEC)  
 SURFACE GEOL UNIT LKSE RESULTS REQ NO, RELEASED 800708 WATER: WIDTH (M) DEPTH (M) LEVEL  
 BED MATERIAL SAMPLE: COLOR U-WH-GY ODOR NONE

## REMARKS:

1-38 DOVE MOUNTAIN 15' QUAD, READING TAKEN AT BASE OF CLIFF-LIKE EXPOSURE OF LIMESTONE;

029639 TYPE WELL WATER REPLICATE SAMPLER CJS AIR TEMP (C) + 28.0 WEATHER U WINDY-CLEAR  
 PHASE E MAP NH1309 SITE H599 TIME TAKEN 12/20/02/80 RELIEF GENTLE VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.700 (29 42' 0") LONG 102.997 (102 59' 49") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QD RESULTS REQ YES, RELEASED 800708 SAMPLE: COLOR -CL ODOR NONE



## GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	1310	DISSOLVED OXYGEN(PPM)	2.1
WATER TEMP(C)	+ 22.9	VISIBILITY(M)	CLEAR	PH 6.7	LO-ION PAPER
TOTAL ALKALINITY(PPM)	254	P ALKALINITY(PPM)	15	M ALKALINITY(PPM)	251
APPEARANCE	CLEAR	DISCHARGE(L/M)			
PRODUCING HORIZON	LKSE	CONFIDENCE	POSSIBLE	SOURCE	GEOL. INFERENCE

## WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	STEEL	PIPE COMPOSITION	OTHER
METERS FROM HEAD	45	WITH RESPECT TO PRESSURE TANK	NONE	USE	HOUSE/STOCK	PUMPING FREQUENCY	INFREQUENT
DEPTH TO PROD HORIZON(M)	333	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION		GEOL. INFERENCE	
WELL DEPTH(M)	350	CONFIDENCE OF WELL DEPTH	HIGH	SOURCE OF DEPTH INFORMATION		OWNER	

## REMARKS:

1-38 MARAVILLAS CANYON NW 7 1/2' QUAD., SAMPLE COLLECTED FROM PIPE AT SQUARE STOCK TANK 45M NORTHEAST OF PUMP HOUSE. WELL IS 1M SOUTH OF PUMP HOUSE;  
 1-78 D.W. COLLINS & BOX 363 & MARATHON, TX 79842;  
 3-21 PLASTIC AND GALVANIZED;

029640 TYPE WELL WATER REPLICATE SAMPLER CJS AIR TEMP(C) + 30.0 WEATHER U WINDY-CLEAR  
 PHASE E MAP NH1309 SITE H600 TIME TAKEN 14/20/02/80 RELIEF GENTLE VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.677 (29 40'37") LONG 102.995 (102 59'42") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QD RESULTS REQ NO ,RELEASED 800708 SAMPLE: COLOR - -CL ODOR NONE

## GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	630	DISSOLVED OXYGEN(PPM)	9.1
WATER TEMP(C)	+ 25.6	VISIBILITY(M)	CLEAR	PH 7.6	LO-ION PAPER
TOTAL ALKALINITY(PPM)	200	P ALKALINITY(PPM)	15	M ALKALINITY(PPM)	205
APPEARANCE	CLEAR	DISCHARGE(L/M)			
PRODUCING HORIZON	LKSE	CONFIDENCE	POSSIBLE	SOURCE	GEOL. INFERENCE

## WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	STEEL	PIPE COMPOSITION	GALVANIZED
METERS FROM HEAD	5	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSE/STOCK	PUMPING FREQUENCY	FREQUENT
DEPTH TO PROD HORIZON(M)	333	CONFIDENCE OF PRODUCING DEPTH	POSSIBLE	SOURCE OF PRODUCING INFORMATION		GEOL. INFERENCE	
WELL DEPTH(M)	333	CONFIDENCE OF WELL DEPTH	POSSIBLE	SOURCE OF DEPTH INFORMATION		GEOL. INFERENCE	

## REMARKS:

1-38 MARAVILLAS CANYON NW 7 1/2' QUAD., SAMPLE COLLECTED FROM GROUND FAUCET NEAR PRESSURE TANK. WELL IS AT TANK AND IS 8M WEST OF HOUSE;

029641 TYPE OTHER REPLICATE SAMPLER CJS AIR TEMP(C) + 35.0 WEATHER LT WIND-CLEAR  
 PHASE R MAP NH1309 SITE H601 TIME TAKEN 15/22/02/80 RELIEF HIGH VEGETATION BRUSH-MODERATE  
 LOCATION: LAT 29.524 (29 31'26") LONG 102.822 (102 49'19") CONTAMINANTS NONE  
 SURFACE GEOL UNIT QD RESULTS REQ NO ,RELEASED 800708 WATER: WIDTH(M) DEPTH(M) LEVEL  
 BED MATERIAL SAMPLE: COLOR L-GY-BN ODOR NONE

## REMARKS:

1-38 MARAVILLAS CANYON SE 7 1/2' QUAD, READING TAKEN ON LIMESTONE GRAVEL TERRACE DEPOSITS ON EAST BANK OF STREAM;

029642 TYPE STREAM SEDIMENT REPLICATE SAMPLER CJS AIR TEMP(C) + 35.0 WEATHER LT WIND-CLEAR

STILLWELL

10-31-80

PAGE 121

PHASE E MAP NH1309 SITE H602 TIME TAKEN 16/22/02/80  
LOCATION: LAT 29.523 (29 31'22") LONG 102.811 (102 48'39")

RELIEF HIGH VEGETATION BRUSH-MODERATE  
CONTAMINANTS NONE STREAM FLOW(M/SEC)

SURFACE GEOL UNIT LKSP RESULTS REQ YES, RELEASED 800708

WATER: WIDTH(M) DEPTH(M) LEVEL DRY  
BED MATERIAL PEBBLE SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL (%)

REMARKS:

J-38 MARAVILLAS CANYON SE 7 1/2' QUAD, SAMPLE COLLECTED OVER A 60M INTERVAL GOING UPSTREAM STARTING 150M UPSTREAM FROM CONFLUENCE;  
J-51 LIMESTONE FRAGMENTS OF ASSORTED SIZES WITH FINER MATERIAL INTERSPERSED. BASALT FRAGMENTS ARE PRESENT ALSO IN MINOR AMOUNT;  
I-78 BOB WEST \* REGIONAL DIRECTOR \* TEXAS PARKS AND WILDLIFE \* 3407 S CHADBOURNE \* SAN ANGELO, TX 76901;

029643 TYPE OTHER REPLICATE SAMPLER CJS  
PHASE R MAP NH1309 SITE H603 TIME TAKEN 16/22/02/80  
LOCATION: LAT 29.523 (29 31'22") LONG 102.811 (102 48'39")

AIR TEMP(C) + 36.0 WEATHER LT WIND-CLEAR  
RELIEF HIGH VEGETATION BRUSH-MODERATE  
CONTAMINANTS NONE STREAM FLOW(M/SEC)

SURFACE GEOL UNIT LKSP RESULTS REQ NO, RELEASED 800708

WATER: WIDTH(M) DEPTH(M) LEVEL  
BED MATERIAL SAMPLE: COLOR L-GY-WH ODOR NONE

REMARKS:

J-38 MARAVILLAS CANYON SE 7 1/2' QUAD, READING TAKEN ON THICK BEDDED LIMESTONE OUTCROP ON NORTH BANK OF STREAM:

029667 TYPE OTHER REPLICATE SAMPLER CSL  
PHASE R MAP NH1309 SITE H626 TIME TAKEN 15/07/02/80  
LOCATION: LAT 29.647 (29 38'49") LONG 102.954 (102 57'14")

AIR TEMP(C) WEATHER  
RELIEF VEGETATION  
CONTAMINANTS OTHER STREAM FLOW(M/SEC)

SURFACE GEOL UNIT LKSE RESULTS REQ NO, RELEASED 800708

WATER: WIDTH(M) DEPTH(M) LEVEL  
BED MATERIAL SAMPLE: COLOR M-PK-GY ODOR

REMARKS:

I-38 MARAVILLAS CANYON N.W. 7.5' QUAD SCINTILLOMETER READING ON PK-GY FRACTURE ZONE IN M-BN-GY LIMESTONE, CONTAINS CALCITE VEINS, READING TAKEN IN DRAW JUST BELOW COW PATH;  
I-60 GEOMETRY NOT REAL GOOD;

029668 TYPE OTHER REPLICATE SAMPLER CSL  
PHASE R MAP NH1309 SITE H627 TIME TAKEN 15/07/02/80  
LOCATION: LAT 29.647 (29 38'49") LONG 102.953 (102 57'10")

AIR TEMP(C) WEATHER  
RELIEF VEGETATION  
CONTAMINANTS STREAM FLOW(M/SEC)

SURFACE GEOL UNIT LKSE RESULTS REQ NO, RELEASED 800708

WATER: WIDTH(M) DEPTH(M) LEVEL  
BED MATERIAL SAMPLE: COLOR L-YL-BN ODOR

REMARKS:

J-38 MARAVILLAS CANYON N.W. 7.5' QUAD SCINTILLOMETER READING ON LIMESTONE OUTCROP IN DRAW 15M DOWNSTREAM OF BEND:

029669 TYPE OTHER REPLICATE SAMPLER CSL  
PHASE R MAP NH1309 SITE H628 TIME TAKEN 01/22/02/80  
LOCATION: LAT 29.747 (29 44'49") LONG 102.849 (102 50'56")

AIR TEMP(C) WEATHER  
RELIEF VEGETATION  
CONTAMINANTS STREAM FLOW(M/SEC)

SURFACE GEOL UNIT LKSE RESULTS REQ NO, RELEASED 800708

WATER: WIDTH(M) DEPTH(M) LEVEL  
BED MATERIAL SAMPLE: COLOR L-GY-BN ODOR



## REMARKS:

1-38 MARAVILLAS CANYON N.E. 7.5' QUAD SCINTILLOMETER READING ON L-GY-BN NODULAR L.S. WITH BIOCLASTIC BEDS. READING TAKEN ON OUTCROP N. OF STOCK POND:

029670	TYPE OTHER	REPLICATE	SAMPLER CSL	AIR TEMP(C)	WEATHER
	PHASE R	MAP NH1309	SITE H629	RELIEF	VEGETATION
		LOCATION: LAT 29.744 (29 44' 38")	LONG 102.845 (102 50' 42")	CONTAMINANTS	STREAM FLOW(M/SEC)
				WATER: WIDTH(M)	DEPTH(M)
	SURFACE GEOL UNIT LKSE	RESULTS REQ NO	RELEASED 800708	BED MATERIAL	SAMPLE: COLOR L-BN-GY LEVEL ODOR

## REMARKS:

1-38 MARAVILLAS CANYON N.E. 7.5' QUAD SCINTILLOMETER READING ON L-BN-GY MASSIVE L.S., TAKEN AT OUTCROP ON N. SIDE OF HILL JUST BELOW TEU CONTACT:

029671	TYPE OTHER	REPLICATE	SAMPLER CSL	AIR TEMP(C)	WEATHER
	PHASE R	MAP NH1309	SITE H630	RELIEF	VEGETATION
		LOCATION: LAT 29.735 (29 44' 6")	LONG 102.854 (102 51' 14")	CONTAMINANTS	STREAM FLOW(M/SEC)
				WATER: WIDTH(M)	DEPTH(M)
	SURFACE GEOL UNIT LKSE	RESULTS REQ NO	RELEASED 800708	BED MATERIAL	SAMPLE: COLOR M-GY-BN LEVEL ODOR NONE

## REMARKS:

1-38 MARAVILLAS CANYON N.E. 7.5' QUAD SCINTILLOMETER READING ON M-GY-BN MASSIVE L.S. AT OUTCROP 10M. N. OF ROAD:

029672	TYPE OTHER	REPLICATE	SAMPLER CSL	AIR TEMP(C)	WEATHER
	PHASE R	MAP NH1309	SITE H631	RELIEF	VEGETATION
		LOCATION: LAT 29.734 (29 44' 2")	LONG 102.862 (102 51' 43")	CONTAMINANTS	STREAM FLOW(M/SEC)
				WATER: WIDTH(M)	DEPTH(M)
	SURFACE GEOL UNIT LKSE	RESULTS REQ NO	RELEASED 800708	BED MATERIAL	SAMPLE: COLOR M-GY-BN LEVEL ODOR

## REMARKS:

1-38 MARAVILLAS CANYON N.E. 7.5' QUAD SCINTILLOMETER READING ON M-GY-BN NODULAR BEDDED L.S., READING TAKEN JUST BELOW TEU CONTACT:

029673	TYPE OTHER	REPLICATE	SAMPLER CSL	AIR TEMP(C)	WEATHER
	PHASE R	MAP NH1309	SITE H632	RELIEF	VEGETATION
		LOCATION: LAT 29.734 (29 44' 2")	LONG 102.862 (102 51' 43")	CONTAMINANTS	STREAM FLOW(M/SEC)
				WATER: WIDTH(M)	DEPTH(M)
	SURFACE GEOL UNIT TEU	RESULTS REQ NO	RELEASED 800708	BED MATERIAL	SAMPLE: COLOR D-BN-GY LEVEL ODOR

## REMARKS:

1-38 MARAVILLAS CANYON N.E. 7.5' QUAD SCINTILLOMETER READING ON D-GY-BN VOLCANIC ROCK, WEATHERS OR-BN, TAKEN JUST ABOVE CONTACT WITH LKSE:

029674	TYPE OTHER	REPLICATE	SAMPLER CSL	AIR TEMP(C)	WEATHER
	PHASE R	MAP NH1309	SITE H633	RELIEF	VEGETATION
		LOCATION: LAT 29.735 (29 44' 6")	LONG 102.866 (102 51' 57")	CONTAMINANTS	STREAM FLOW(M/SEC)
				WATER: WIDTH(M)	DEPTH(M)
					LEVEL

SURFACE GEOL UNIT TEU RESULTS REQ NO ,RELEASED 800708 BED MATERIAL SAMPLE: COLOR M-OR-BN ODOR

## REMARKS:

1-38 MARAVILLAS CANYON N.E. 7.5' QUAD SCINTILLOMETER READING ON GROUND SURFACE AT TOP OF KNOLL WEST OF DRAW:

029675	TYPE OTHER	REPLICATE	SAMPLER CSL	AIR TEMP(C)	WEATHER
	PHASE R MAP NH1309	SITE H634	TIME TAKEN 12/22/02/80	RELIEF	VEGETATION
	LOCATION: LAT 29.733 (29 43'58")	LONG 102.866 (102 51'57")		CONTAMINANTS	STREAM FLOW(M/SEC)
				WATER: WIDTH(M)	DEPTH(M) LEVEL
	SURFACE GEOL UNIT TEU	RESULTS REQ NO	,RELEASED 800708	BED MATERIAL	SAMPLE: COLOR M-BU-GY ODOR

## REMARKS:

1-38 MARAVILLAS CANYON N.E. 7.5' QUAD SCINTILLOMETER READING ON M-BU-GY VOLCANIC ROCK EXPOSED IN ROAD JUST NORTH OF DRAW:

029676	TYPE OTHER	REPLICATE	SAMPLER CSL	AIR TEMP(C)	WEATHER
	PHASE R MAP NH1309	SITE H635	TIME TAKEN 12/22/02/80	RELIEF	VEGETATION
	LOCATION: LAT 29.729 (29 43'44")	LONG 102.865 (102 51'54")		CONTAMINANTS	STREAM FLOW(M/SEC)
				WATER: WIDTH(M)	DEPTH(M) LEVEL
	SURFACE GEOL UNIT TEU	RESULTS REQ NO	,RELEASED 800708	BED MATERIAL	SAMPLE: COLOR M-BU-GY ODOR

## REMARKS:

1-38 MARAVILLAS CANYON N.E. 7.5' QUAD SCINTILLOMETER READING ON M-BU-GY VOLCANIC ROCK EXPOSED IN DRAW, READING TAKEN ON OUTCROP BETWEEN DRAW:

029677	TYPE OTHER	REPLICATE	SAMPLER CSL	AIR TEMP(C)	WEATHER
	PHASE R MAP NH1309	SITE H636	TIME TAKEN 13/22/02/80	RELIEF	VEGETATION
	LOCATION: LAT 29.726 (29 43'33")	LONG 102.857 (102 51'25")		CONTAMINANTS	STREAM FLOW(M/SEC)
				WATER: WIDTH(M)	DEPTH(M) LEVEL
	SURFACE GEOL UNIT LKSE	RESULTS REQ NO	,RELEASED 800708	BED MATERIAL	SAMPLE: COLOR L-GY-BN ODOR NONE

## REMARKS:

1-38 MARAVILLAS CANYON N.E. 7.5' QUAD SCINTILLOMETER READING ON L-GY-BN MASSIVE FINE GRAINED L.S. OUTCROP LOCATED JUST BENCH:

029678	TYPE OTHER	REPLICATE	SAMPLER CSL	AIR TEMP(C)	WEATHER
	PHASE R MAP NH1309	SITE H637	TIME TAKEN 13/22/02/80	RELIEF	VEGETATION
	LOCATION: LAT 29.725 (29 43'30")	LONG 102.859 (102 51'32")		CONTAMINANTS	STREAM FLOW(M/SEC)
				WATER: WIDTH(M)	DEPTH(M) LEVEL
	SURFACE GEOL UNIT LKSE	RESULTS REQ NO	,RELEASED 800708	BED MATERIAL	SAMPLE: COLOR M-GY-BN ODOR

## REMARKS:

1-38 MARAVILLAS CANYON N.W. 7.5' QUAD SCINTILLOMETER READING ON M-GY-BN NODULAR FINE GRAINED L.S. OUTCROP LOCATED AT S. SIDE OF DRAW JUST BELOW SADDLE:

029679	TYPE OTHER	REPLICATE	SAMPLER CSL	AIR TEMP(C)	WEATHER
	PHASE R MAP NH1309	SITE H638	TIME TAKEN 14/22/02/80	RELIEF	VEGETATION
	LOCATION: LAT 29.661 (29 39'39")	LONG 102.853 (102 51'10")		CONTAMINANTS	STREAM FLOW(M/SEC)
				WATER: WIDTH(M)	DEPTH(M) LEVEL



SURFACE GEOL UNIT LKSP RESULTS REQ NO ,RELEASED 800708 BED MATERIAL SAMPLE: COLOR M-GY-BN ODOR NONE

## REMARKS:

J-38 MARAVILLAS CANYON N.E. 7.5' QUAD SCINTILLOMETER READING ON M-GY-BN MASSIVE FINE GRAINED L.S. ON OUTCROP ON PROW;

029680	TYPE OTHER	REPLICATE	SAMPLER CSL	AIR TEMP(C)	WEATHER
	PHASE R MAP NH1309	SITE H639	TIME TAKEN 15/22/02/80	RELIEF	VEGETATION
	LOCATION: LAT 29.655 (29 39' 18")	LONG 102.847 (102 50' 49")		CONTAMINANTS	STREAM FLOW(M/SEC)
				WATER: WIDTH(M)	DEPTH(M) LEVEL
	SURFACE GEOL UNIT LKSP	RESULTS REQ NO ,RELEASED 800708		BED MATERIAL	SAMPLE: COLOR L-GY-BN ODOR NONE

## REMARKS:

I-38 MARAVILLAS CANYON N.E. 7.5' QUAD SCINTILLOMETER READING ON L-GY-BN MED. BEDDED FINE GRAINED LIMESTONE, OUTCROP ON N. BANK OF STREAM;

029681	TYPE OTHER	REPLICATE	SAMPLER CSL	AIR TEMP(C)	WEATHER
	PHASE R MAP NH1309	SITE H640	TIME TAKEN 15/22/02/80	RELIEF	VEGETATION
	LOCATION: LAT 29.651 (29 39' 3")	LONG 102.844 (102 50' 38")		CONTAMINANTS	STREAM FLOW(M/SEC)
				WATER: WIDTH(M)	DEPTH(M) LEVEL
	SURFACE GEOL UNIT LKSP	RESULTS REQ NO ,RELEASED 800708		BED MATERIAL	SAMPLE: COLOR M-GY-BN ODOR

## REMARKS:

I-38 MARAVILLAS CANYON N.E. 7.5' QUAD SCINTILLOMETER READING ON M-GY-BN MASSIVE FINE GRAINED LIMESTONE OUTCROP AT KNOLL;

029682	TYPE OTHER	REPLICATE	SAMPLER CSL	AIR TEMP(C)	WEATHER
	PHASE R MAP NH1309	SITE H641	TIME TAKEN 16/22/02/80	RELIEF	VEGETATION
	LOCATION: LAT 29.654 (29 39' 14")	LONG 102.846 (102 50' 45")		CONTAMINANTS	STREAM FLOW(M/SEC)
				WATER: WIDTH(M)	DEPTH(M) LEVEL
	SURFACE GEOL UNIT LKSP	RESULTS REQ NO ,RELEASED 800708		BED MATERIAL	SAMPLE: COLOR L-GY-BN ODOR

## REMARKS:

I-38 MARAVILLAS CANYON N.E. 7.5' QUAD SCINTILLOMETER READING ON L-GY MED. BEDDED FINE GRAINED L.S. OUTCROP ON S. STREAM BANK;

029727	TYPE OTHER	REPLICATE	SAMPLER SAR	AIR TEMP(C)	WEATHER
	PHASE R MAP NH1309	SITE H685	TIME TAKEN 15/22/02/80	+ 29.5	- CLEAR
	LOCATION: LAT 29.532 (29 31' 55")	LONG 102.903 (102 54' 10")		RELIEF HIGH	VEGETATION BRUSH-SPARSE
				CONTAMINANTS NONE	STREAM FLOW(M/SEC)
				WATER: WIDTH(M)	DEPTH(M) LEVEL
	SURFACE GEOL UNIT LKSE	RESULTS REQ YES ,RELEASED 800708		BED MATERIAL	SAMPLE: COLOR M-BN-GY ODOR NONE

## REMARKS:

I-38 MARAVILLAS CANYON SW QUAD; READING TAKEN ON SANDY LIMESTONE WITH COLORED BANDING; LOCATION IS BY SMALL STREAM ON S SIDE OF ROAD;

I-78 BOB WEST, REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029728	TYPE OTHER	REPLICATE	SAMPLER SAR	AIR TEMP(C)	WEATHER
	PHASE R MAP NH1309	SITE H686	TIME TAKEN 16/22/02/80	+ 28.0	- CLEAR
	LOCATION: LAT 29.562 (29 33' 43")	LONG 102.922 (102 55' 19")		RELIEF HIGH	VEGETATION BRUSH-SPARSE
				CONTAMINANTS NONE	STREAM FLOW(M/SEC)

SURFACE GEOL UNIT LKSE RESULTS REQ YES ,RELEASED 800708

WATER: WIDTH(M)  
BED MATERIALDEPTH(M)  
SAMPLE: COLOR M-BN-GYLEVEL  
ODOR NONE

## REMARKS:

1-38 MARAVILLAS CANYON SW QUAD; READING TAKEN ON PITTED LIMESTONE LOCATED AT W SIDE OF ROAD;  
 J-78 BOB WHITE, REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & SAN ANGELO, TX 76901;

029729 TYPE OTHER REPLICATE SAMPLER SAR  
 PHASE R MAP NH1309 SITE H687 TIME TAKEN 16/22/02/80  
 LOCATION: LAT 29.563 (29 33'46") LONG 102.920 (102 55'12")  
 SURFACE GEOL UNIT TEU RESULTS REQ YES ,RELEASED 800708

AIR TEMP(C) + 28.5  
 RELIEF HIGH  
 CONTAMINANTS NONE  
 WATER: WIDTH(M)  
 BED MATERIAL

WEATHER -CLEAR  
 VEGETATION BRUSH-SPARSE  
 STREAM FLOW(M/SEC)  
 DEPTH(M)  
 SAMPLE: COLOR M-RD-BN  
 LEVEL  
 ODOR NONE

## REMARKS:

1-38 MARAVILLAS CANYON SW QUAD; READING TAKEN ON GASSY, BASALTIC ROCK 15M FROM FAULT;  
 J-78 BOB WEST, REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029730 TYPE OTHER REPLICATE SAMPLER SAR  
 PHASE R MAP NH1309 SITE H688 TIME TAKEN 17/22/02/80  
 LOCATION: LAT 29.563 (29 33'46") LONG 102.921 (102 55'15")  
 SURFACE GEOL UNIT TEU RESULTS REQ YES ,RELEASED 800708

AIR TEMP(C) + 28.0  
 RELIEF HIGH  
 CONTAMINANTS NONE  
 WATER: WIDTH(M)  
 BED MATERIAL

WEATHER -CLEAR  
 VEGETATION BRUSH-SPARSE  
 STREAM FLOW(M/SEC)  
 DEPTH(M)  
 SAMPLE: COLOR M-BN-GY  
 LEVEL  
 ODOR NONE

## REMARKS:

1-38 MARAVILLAS CANYON SW QUAD; READING TAKEN FROM HIGHLY WEATHERED, TRACHYTIC ROCK WITH PHENOCRYSTS LOCATED 2M FROM FAULT;  
 J-78 BOB WEST, REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029731 TYPE OTHER REPLICATE SAMPLER SAR  
 PHASE R MAP NH1309 SITE H689 TIME TAKEN 17/22/02/80  
 LOCATION: LAT 29.562 (29 33'43") LONG 102.921 (102 55'15")  
 SURFACE GEOL UNIT UKSE RESULTS REQ YES ,RELEASED 800709

AIR TEMP(C) + 28.0  
 RELIEF HIGH  
 CONTAMINANTS NONE  
 WATER: WIDTH(M)  
 BED MATERIAL

WEATHER -CLEAR  
 VEGETATION BRUSH-SPARSE  
 STREAM FLOW(M/SEC)  
 DEPTH(M)  
 SAMPLE: COLOR L-YL-OR  
 LEVEL  
 ODOR NONE

## REMARKS:

1-38 MARAVILLAS CANYON SW QUAD; READING TAKEN ON PUNKY, CONTORTED SILTSTONE; PROBABLE LOCATION ON FAULT LINE; OUTCROP IS PEN  
 FORMATION;  
 J-78 BOB WEST, REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;

029732 TYPE OTHER REPLICATE SAMPLER SAR  
 PHASE R MAP NH1309 SITE H690 TIME TAKEN 18/22/02/80  
 LOCATION: LAT 29.544 (29 32'38") LONG 102.916 (102 54'57")  
 SURFACE GEOL UNIT LKSE RESULTS REQ YES ,RELEASED 800708

AIR TEMP(C) + 28.0  
 RELIEF HIGH  
 CONTAMINANTS NONE  
 WATER: WIDTH(M)  
 BED MATERIAL

WEATHER -CLEAR  
 VEGETATION BRUSH-SPARSE  
 STREAM FLOW(M/SEC)  
 DEPTH(M)  
 SAMPLE: COLOR M-BN-GY  
 LEVEL  
 ODOR NONE

## REMARKS:

J-38 MARAVILLAS CANYON SW QUAD; READING TAKEN ON SANDY, THIN-BEDDED LIMESTONE WITH COLORED BANDING LOCATED ON NE SIDE OF ROAD  
 NEXT TO FENCE;  
 J-78 BOB WEST, REGIONAL DIRECTOR & TEXAS PARKS AND WILDLIFE & 3407 S. CHADBOURNE & SAN ANGELO, TX 76901;



STILLWELL PRO	001	STILLWELL	029370	055	STILLWELL	029580	109
	002			056		029584	110
	003		029377	057		029589	111
	004		029381	058		029595	112
	005			059			113
	006		029388	060		029602	114
	007			061			115
	008			062		029609	116
LAB - SEDIMENT	009		029401	063			117
	010		029404	064			118
	011			065			119
	012		029412	066			120
	013			067			121
	014			068		029670	122
	015			069		029675	123
	016		029429	070		029680	124
	017		029432	071			125
	018		029435	072			
	019		029439	073			
	020			074			
	021		029446	075			
	022		029450	076			
	023			077			
	024		029458	078			
STILLWELL	027347		029461	079			
	027464			080			
	029206		029468	081			
				082			
				083			
				084			
	029210			085			
	029214			086			
	029219		029489	087			
	029237			088			
			029498	089			
			029502	090			
			029505	091			
	029286			092			
	029290			093			
	029295		029516	094			
				095			
	029302		029520	096			
			029524	097			
	029312		029528	098			
				099			
			029540	100			
				101			
	029328		029550	102			
			029554	103			
	029342		029559	104			
				105			
	029347		029562	106			
			029567	107			
				108			
	029365			109			