

BOULDER CITY BYPASS SOIL/BEDROCK FIELD SAMPLE DATA SHEET

Tetra Tech, Inc.
Soil/Bedrock Sampling and ABS

Date: 1e/2/14

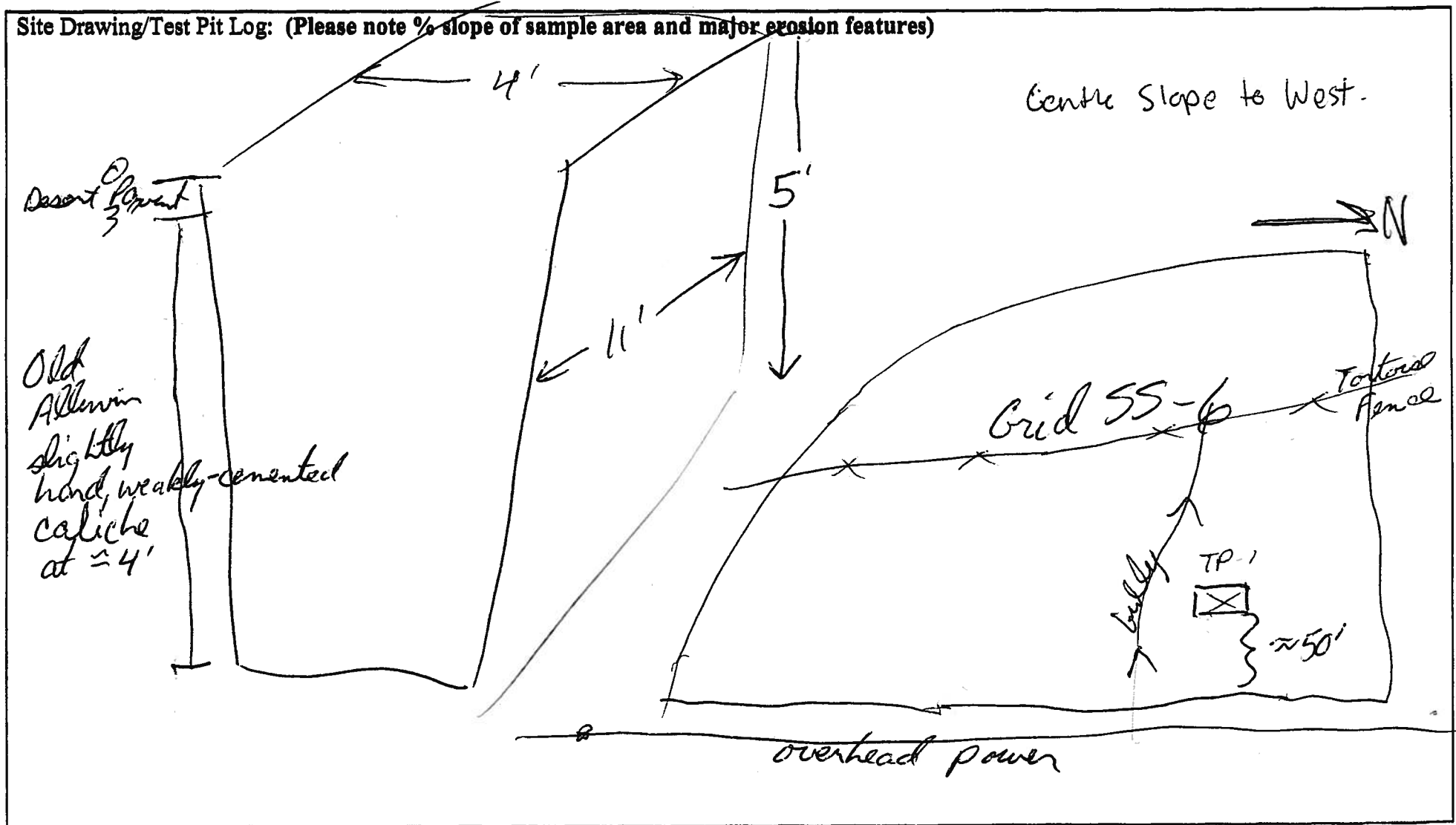
Page 1/2

Associated ABS Testing?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Collected By: <u>RF, ES,</u>	Log Book No: <u>1</u>	
Sample Team Initials: <u>ES, RF, LP, RJ</u>	GPS Waypoint: <u>TP-1-SB</u>	
GPS System/Unit #: <u>TP-1 LP</u> <u>TT-1</u>	Latitude: <u>N 35° 59' 04.8"</u>	
	Longitude: <u>W 114° 54' 17.8"</u>	
GPS coordinates should be collected for the center of each sample.		

(1) Soil/Bedrock Sample #	Associated ABS Air Sample #	Grid ID/ Number	Sample Method	Number of Aliquots	(2) Parent Material	(3) Soil Texture	(4) Vegetation Cover	(4) Stoniness
<u>BC-SB-00001</u> <u>Subsurface Test Pit</u>		<u>0</u>	<u>back hoe</u>	<u>5</u> <u>(6 each Bucket)</u>	<u>old Alluvium</u>	<u>Sandy Loam</u>	<u>< 10%</u>	<u>< 10%</u>
NOTES: To be used to complete details above.								
1) Surface Soil (0-8 inch) 2) Subsurface Test Pits (0-10 ft.) 3) Subsurface Auger Sample (0-45 ft.) 4) Outcrop Geologic Sample 5) Rock Core Drill Sample 6) Discrete "Target" Sample		<u>BC-XX-###</u>	Hand Backhoe HSA Core Drill Outcrop		New Alluvium Old Alluvium Qtz Monzonite Volcanic Breccia Other (describe)	Sand Loamy Sand Sandy Loam Loam Other (describe)	Proportion of grid covered w/ vegetation? <10% 10-25% 25-50% >50%	Proportion of stones greater than 6 inches? <10% 10-25% 25-50% >50%

BOULDER CITY BYPASS SOIL/BEDROCK FIELD SAMPLE DATA SHEET

Date: 6/2/14	Soil/Bedrock Sample Number: BC-SB-00001	Grid/ID Number: SS-6	GPS Waypoint: TP-1-SB
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BOULDER CITY BYPASS SOIL/BEDROCK FIELD SAMPLE DATA SHEET

Tetra Tech, Inc.
Soil/Bedrock Sampling and ABS

Date: 6/2/14

Associated ABS Testing?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Collected By: <u>RF, LP, RJ</u>	Log Book No: <u>1</u>	
Sample Team Initials: <u>RF, LP, RJ</u>	GPS Waypoint: <u>TB-2-SB</u>	
GPS System/Unit #: <u>TT-1</u>	Latitude: <u>N 35° 58' 58.4"</u>	
	Longitude: <u>W 114° 55' 10.7"</u>	
GPS coordinates should be collected for the center of each sample.		

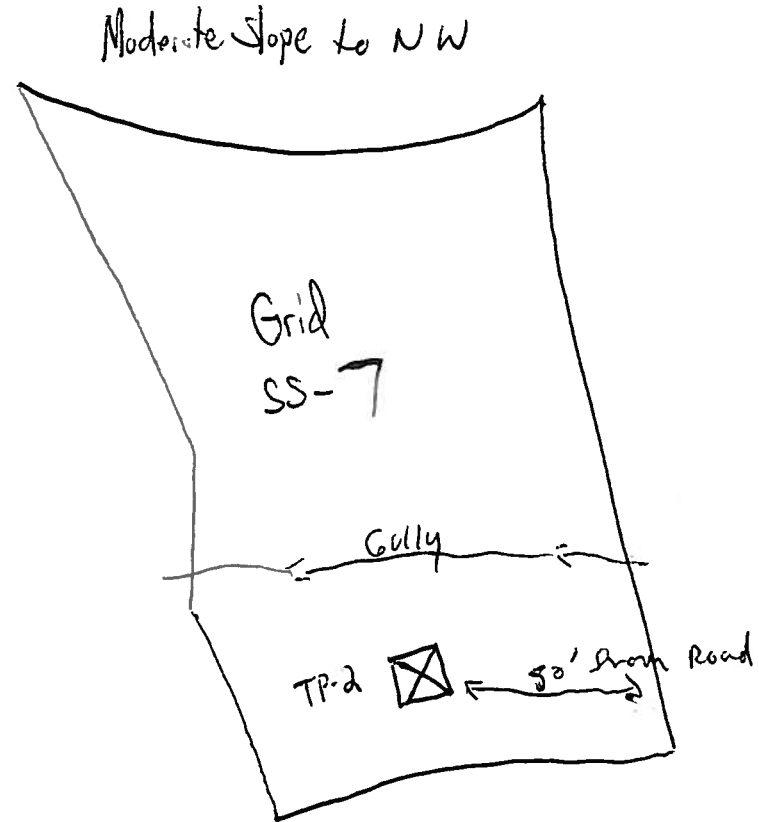
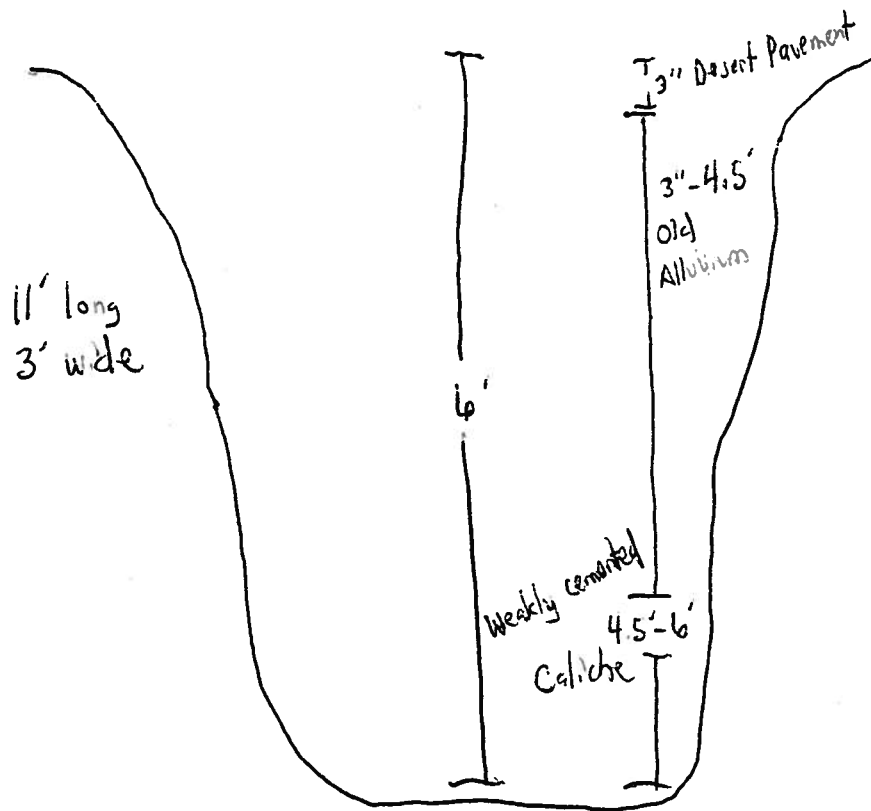
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(1) Soil/Bedrock Sample #	Associated ABS Air Sample #s	Grid ID/ Number	Sample Method	Number of Aliquots	(2) Parent Material	(3) Soil Texture	(4) Vegetation Cover	(4) Stoniness
BC-SB-00002	/	SS-7	Backhoe	5	Old Alluvium	Sandy Loam	<10%	<10%
NOTES: To be used to complete details above.								
1) Surface Soil (0-6 inch) 2) Subsurface Test Pits (0-10 ft.) 3) Subsurface Auger Sample (0-45 ft.) 4) Outcrop Geologic Sample 5) Rock Core Drill Sample 6) Discrete "Target" Sample		BC-XX-###	Hand Backhoe HSA Core Drill Outcrop		New Alluvium Old Alluvium Qtz Monzonite Volcanic Breccia Other (describe)	Sand Loamy Sand Sandy Loam Loam Other (describe)	Proportion of grid covered w/ vegetation? <10% 10-25% 25-50% >50%	Proportion of stones greater than 6 inches? <10% 10-25% 25-50% >50%

BOULDER CITY BYPASS SOIL/BEDROCK FIELD SAMPLE DATA SHEET

Date:	Soil/Bedrock Sample Number:	Grid/ID Number:	GPS Waypoint:
6/2/14	BC-SB-00002	SS-7	TP-2-SB

Site Drawing/Test Pit Log: (Please note % slope of sample area and major erosion features)



BOULDER CITY BYPASS SOIL/BEDROCK FIELD SAMPLE DATA SHEET

Tetra Tech, Inc.
Soil/Bedrock Sampling and ABS

Date: 6/2/14

Associated ABS Testing?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Collected By: RF, ES, LP <u>LP</u> ES	Log Book No: <u>1</u>	
Sample Team Initials: <u>LP, ES, RF, RJ</u>	GPS Waypoint: <u>TP-3-SB</u>	
GPS System/Unit #: <u>TT-1</u>	Latitude: <u>N 35° 58' 54.4"</u>	
	Longitude: <u>W 114° 55' 07.3"</u>	
GPS coordinates should be collected for the center of each sample.		

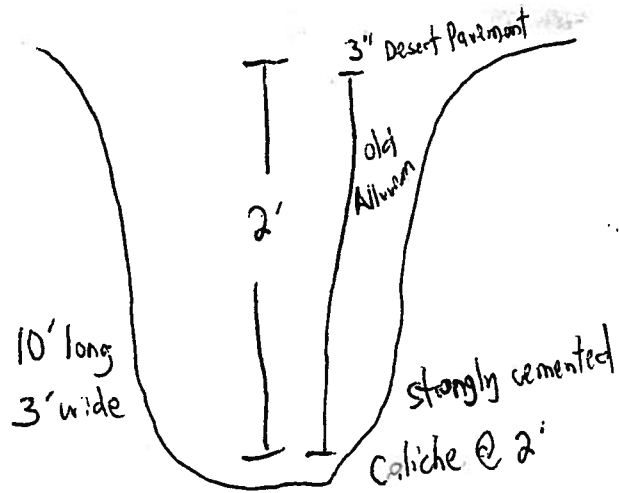
(1) Soil/Bedrock Sample #	Associated ABS Air Sample #s	Grid ID/ Number	Sample Method	Number of Aliquots	(2) Parent Material	(3) Soil Texture	(4) Vegetation Cover	(4) Stoniness
BC-SB-00003	/	11	Backhoe	5	Old Alluvium	Sandy Loam	<10%	<10%
NOTES: To be used to complete details above.								
1) Surface Soil (0-8 inch) 2) Subsurface Test Pits (0-10 ft.) 3) Subsurface Auger Sample (0-45 ft.) 4) Outcrop Geologic Sample 5) Rock Core Drill Sample 6) Discrete "Target" Sample		BC-XX-####	Hand Backhoe HSA Core Drill Outcrop		New Alluvium Old Alluvium Qtz Monzonite Volcanic Breccia Other (describe)	Sand Loamy Sand Sandy Loam Loam Other (describe)	Proportion of grid covered w/ vegetation? <10% 10-25% 25-50% >50%	Proportion of stones greater than 6 inches? <10% 10-25% 25-50% >50%

BOULDER CITY BYPASS SOIL/BEDROCK FIELD SAMPLE DATA SHEET

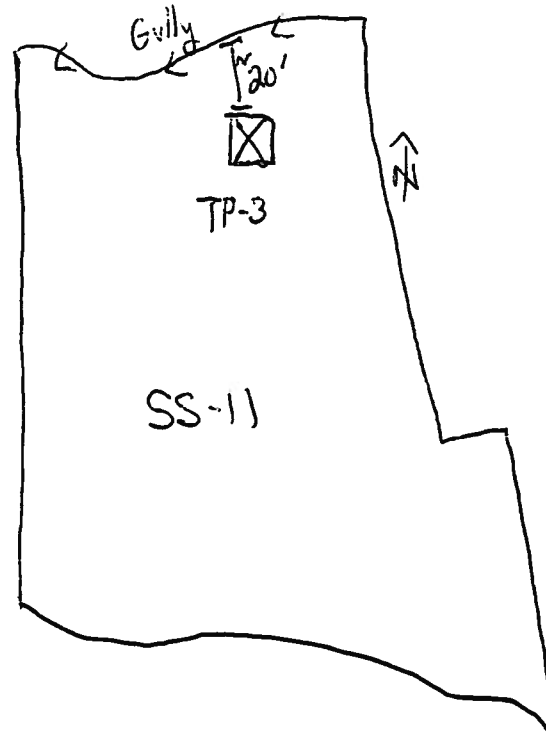
Date: 6/2/14	Soil/Bedrock Sample Number: BC-SB-00003	Grid/ID Number: SS-11	GPS Waypoint: SS TP-3
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SS

Site Drawing/Test Pit Log: (Please note % slope of sample area and major erosion features)



Gently sloping to the NW



BOULDER CITY BYPASS SOIL/BEDROCK FIELD SAMPLE DATA SHEET

Tetra Tech, Inc.
Soil/Bedrock Sampling and ABS

Date: 6/6/14

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Associated ABS Testing?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Collected By: <u>Team 1</u>	Log Book No: <u>1</u>	
Sample Team Initials: <u>ES, KV, LP</u>	GPS Waypoint: <u>TP-4</u>	
GPS System/Unit #: <u>TT-1</u>	Latitude: _____	
	Longitude: _____	
GPS coordinates should be collected for the center of each sample.		

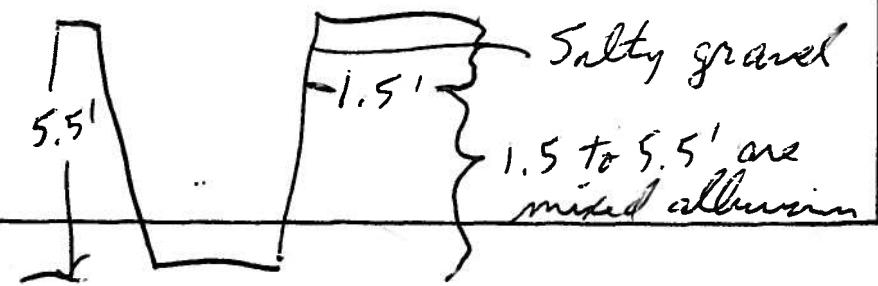
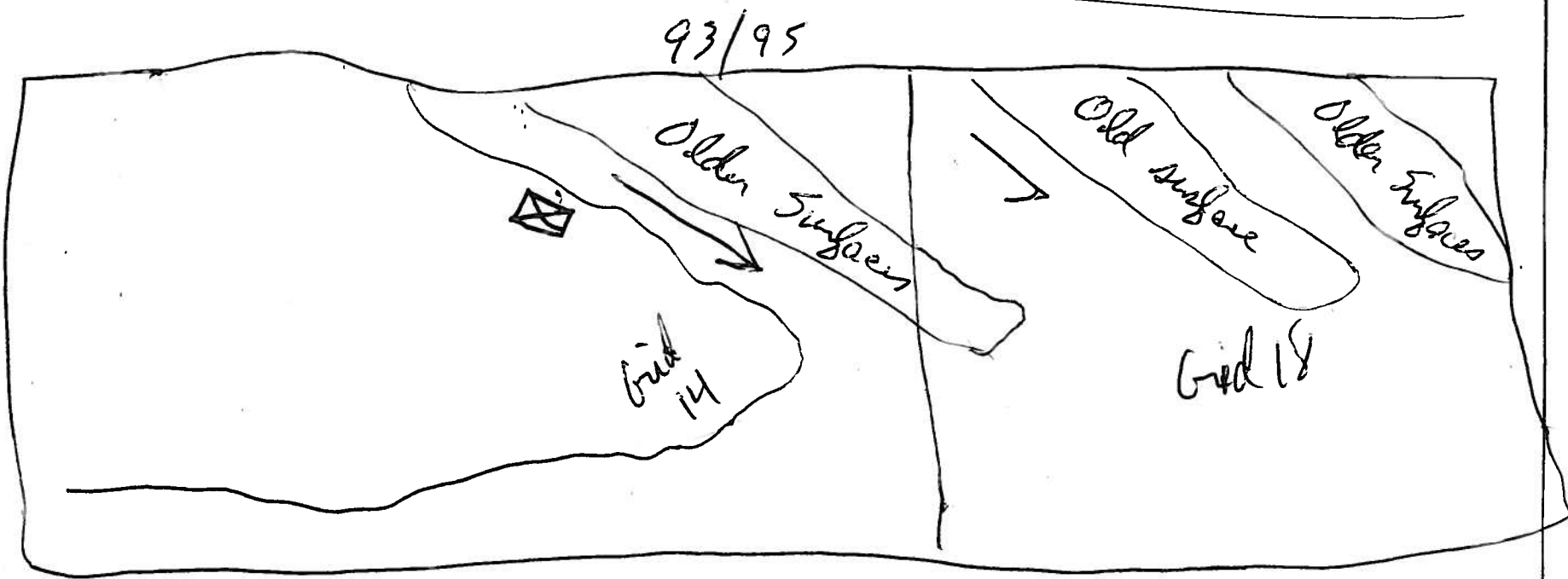
(1) Soil/Bedrock Sample #	Associated ABS Air Sample #	Grid ID/ Number	Sample Method	Number of Aliquots	(2) Parent Material	(3) Soil Texture	(4) Vegetation Cover	(4) Stoniness
BC-SB-00004	<u>Yes</u> BC-ABS-00028 BC-ABS-00029	14	Backhoe	5	New + old Alluvium	Sandy Loam	10-25% more in gullies	< 10%
NOTES: To be used to complete details above.								
1) Surface Soil (0-8 inch) 2) Subsurface Test Pits (0-10 ft.) 3) Subsurface Auger Sample (0-46 ft.) 4) Outcrop Geologic Sample 5) Rock Core Drill Sample 6) Discrete "Target" Sample		BC-XX-###	Hand Backhoe HSA Core Drill Outcrop		New Alluvium Old Alluvium Qtz Monzonite Volcanic Breccia Other (describe)	Sand Loamy Sand Sandy Loam Loam Other (describe)	Proportion of grid covered w/ vegetation? <10% 10-25% 25-50% >50%	Proportion of stones greater than 6 inches? <10% 10-25% 25-50% >50%

BOULDER CITY BYPASS SOIL/BEDROCK FIELD SAMPLE DATA SHEET

Date: 6/6/14	Soil/Bedrock Sample Number: BC-SB-00004	Grid/ID Number: 14	GPS Waypoint: TP-4
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Site Drawing/Test Pit Log: (Please note % slope of sample area and major erosion features)

N ←



BOULDER CITY BYPASS SOIL/BEDROCK FIELD SAMPLE DATA SHEET

Tetra Tech, Inc.
Soil/Bedrock Sampling and ABS

Date: 6/6/14

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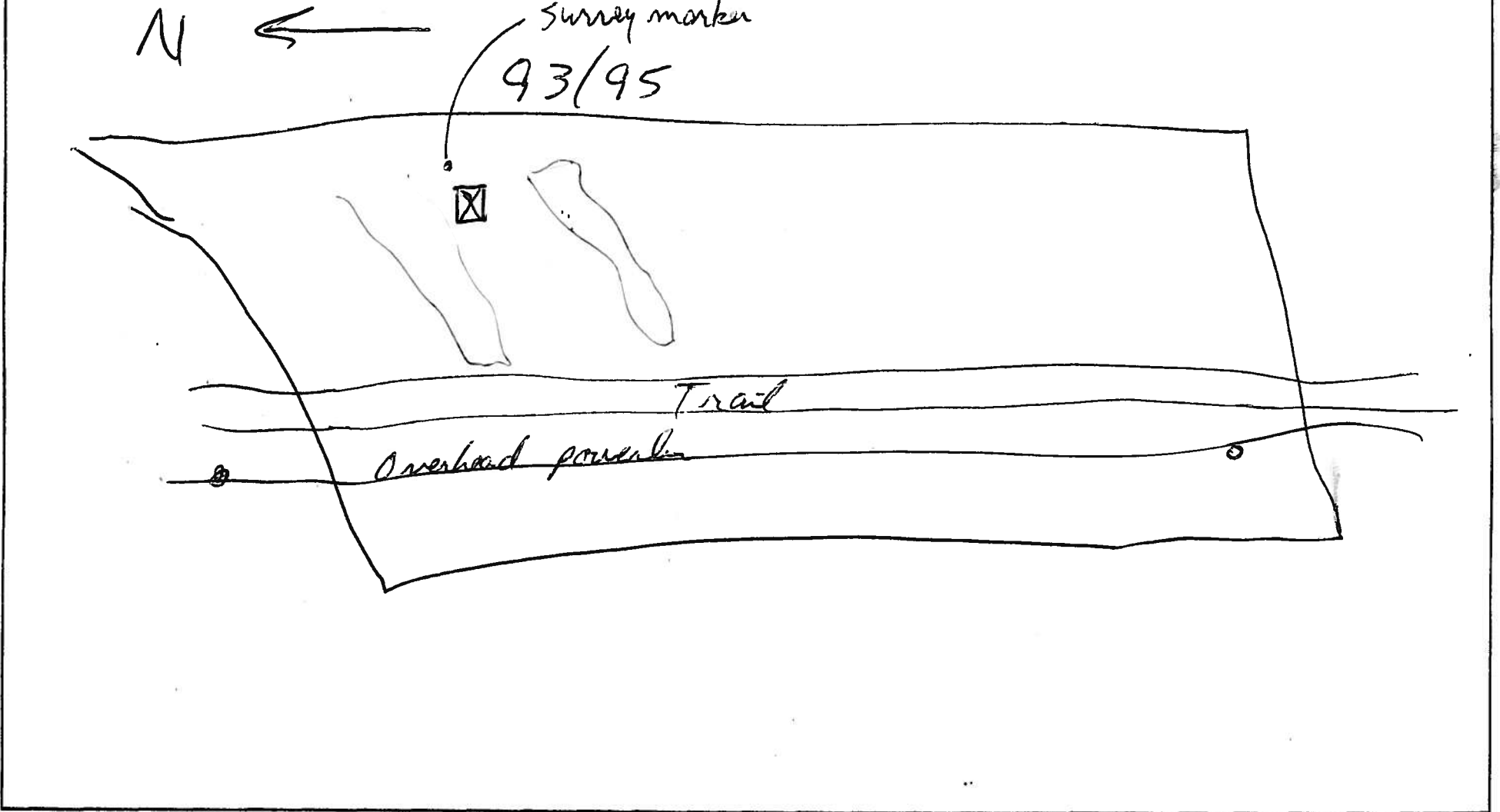
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Collected By: <u>Team 1</u>	Log Book No: <u>1</u>	
Sample Team Initials: <u>KV, LP, ES</u>	GPS Waypoint: <u>TP-5</u>	
GPS System/Unit #: <u>TI-1</u>	Latitude: _____	
	Longitude: _____	
GPS coordinates should be collected for the center of each sample.		

(1) Soil/Bedrock Sample #	Associated ABS Air Sample #	Grid ID/ Number	Sample Method	Number of Aliquots	(2) Parent Material	(3) Soil Texture	(4) Vegetation Cover	(4) Stoniness
BC-SB-00005	<u>Yes</u> BC-ABS-00028 BC-ABS-00029	21	Backhoe	5	Old Alluvium	Sandy Loam	10-25% <u>creosote</u> <u>brush</u> <u>chestnut</u>	10-25%
NOTES: To be used to complete details above.								
1) Surface Soil (0-8 inch) 2) Subsurface Test Pits (0-10 ft.) 3) Subsurface Auger Sample (0-48 ft.) 4) Outcrop Geologic Sample 5) Rock Core Drill Sample 6) Discrete "Target" Sample		BC-XX-###	Hand Backhoe HSA Core Drill Outcrop		New Alluvium Old Alluvium Qtz Monzonite Volcanic Breccia Other (describe)	Sand Loamy Sand Sandy Loam Loam Other (describe)	Proportion of grid covered w/ vegetation? <10% 10-25% 25-50% >50%	Proportion of stones greater than 8 inches? <10% 10-25% 25-50% >50%

BOULDER CITY BYPASS SOIL/BEDROCK FIELD SAMPLE DATA SHEET

Date: 6/6/14	Soil/Bedrock Sample Number: BC-SB-00005	Grid/ID Number: 21	GPS Waypoint: TP-5
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Site Drawing/Test Pit Log: (Please note % slope of sample area and major erosion features)



BOULDER CITY BYPASS SOIL/BEDROCK FIELD SAMPLE DATA SHEET

Tetra Tech, Inc.
Soil/Bedrock Sampling and ABS

Date: 6/6/14

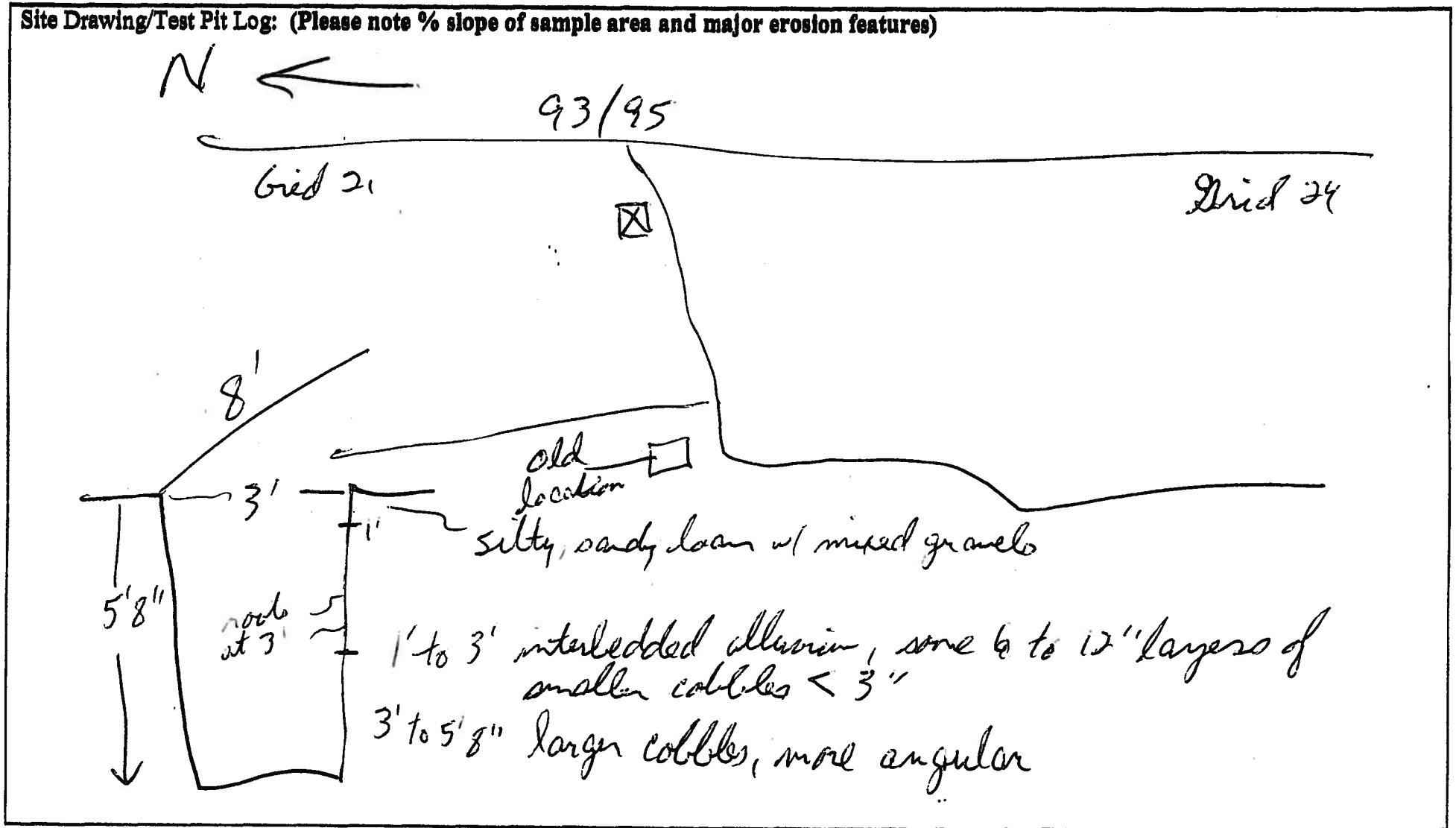
Associated ABS Testing?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Collected By: <u>Team 1</u>	Log Book No: <u>1</u>	
Sample Team Initials: <u>KV, LP, ES</u>	GPS Waypoint: <u>TP-6</u>	
GPS System/Unit #: <u>TT-1</u>	Latitude: _____	
	Longitude: _____	
GPS coordinates should be collected for the center of each sample.		

(1) Soil/Bedrock Sample #	Associated ABS Air Sample #	Grid ID/ Number	Sample Method	Number of Aliquots	(2) Parent Material	(3) Soil Texture	(4) Vegetation Cover	(4) Stoniness
BC-SB-00006	Yes BC-ABS-00038 BC-ABS-00039	21 or 24?	Backhoe	5	Alluvium Older but disturbed graded	Sandy Loam	10-25% cruciate cut clear chestnut spots	10-25%
NOTES: To be used to complete details above.								
1) Surface Soil (0-8 inch) 2) Subsurface Test Pits (0-10 ft.) 3) Subsurface Auger Sample (0-48 ft.) 4) Outcrop Geologic Sample 5) Rock Core Drill Sample 6) Discrete "Target" Sample		BC-XX-###	Hand Backhoe HSA Core Drill Outcrop		New Alluvium Old Alluvium Qtz Monzonite Volcanic Breccia Other (describe)	Sand Loamy Sand Sandy Loam Loam Other (describe)	Proportion of grid covered w/ vegetation? <10% 10-25% 25-50% >50%	Proportion of stones greater than 6 inches? <10% 10-25% 25-50% >50%

BOULDER CITY BYPASS SOIL/BEDROCK FIELD SAMPLE DATA SHEET

Date: 6/6/14	Soil/Bedrock Sample Number: BC-SB-00006	Grid/ID Number: 21 or 24	GPS Waypoint: TP-6
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Site Drawing/Test Pit Log: (Please note % slope of sample area and major erosion features)



BOULDER CITY BYPASS SOIL/BEDROCK FIELD SAMPLE DATA SHEET

Tetra Tech, Inc.
Soil/Bedrock Sampling and ABS

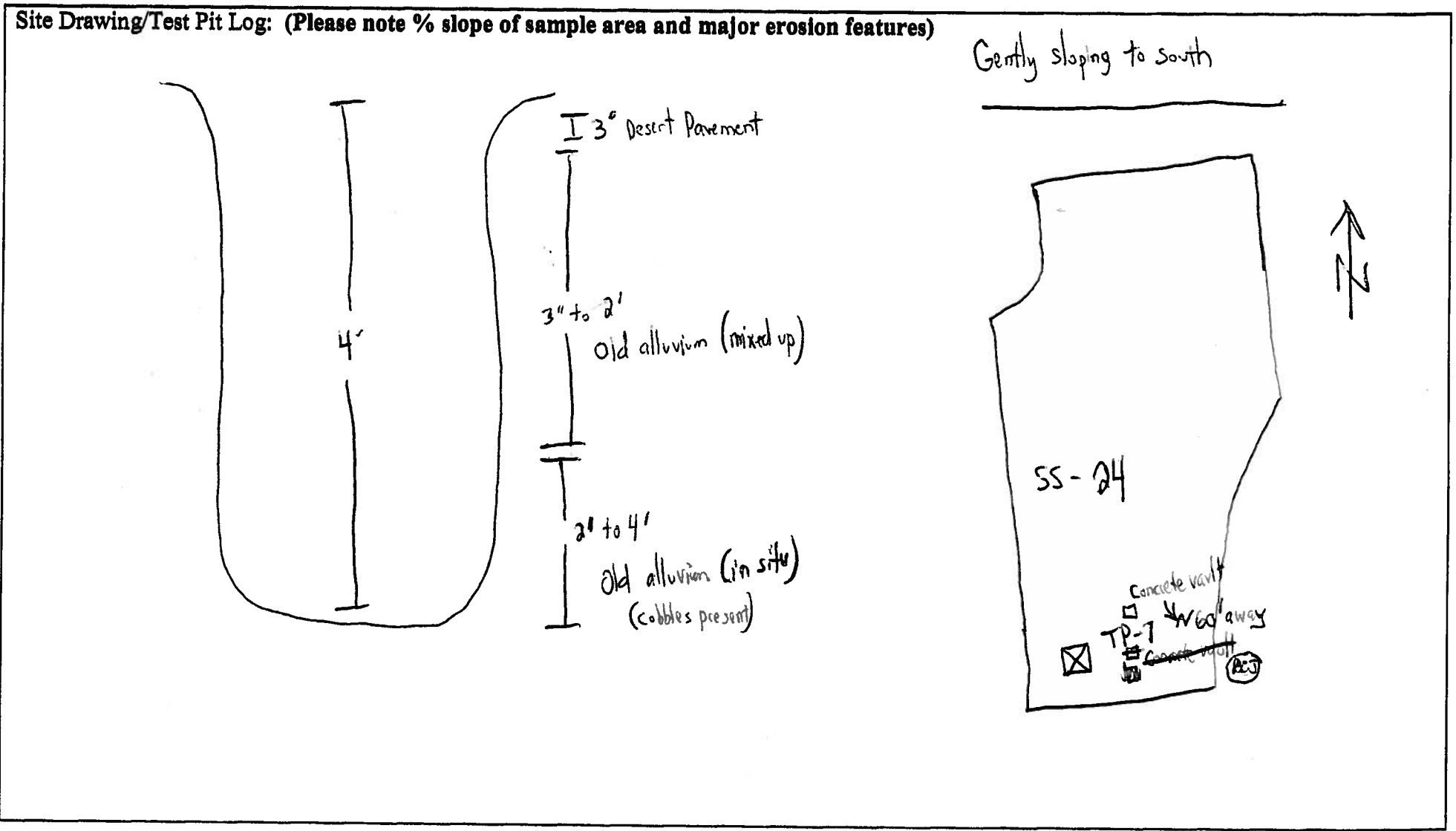
Date: 6/2/14

Associated ABS Testing?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Collected By: <u>LP</u>	Log Book No: <u>1</u>	
Sample Team Initials: <u>ES, RF, LP, RS</u>	GPS Waypoint: <u>TP-7-SB</u>	
GPS System/Unit #: <u>TT-1</u>	Latitude: <u>N 35° 58' 23.7"</u>	
	Longitude: <u>W 114° 54' 51.8"</u>	
GPS coordinates should be collected for the center of each sample.		

(1) Soil/Bedrock Sample #	Associated ABS Air Sample #s	Grid ID/ Number	Sample Method	Number of Aliquots	(2) Parent Material	(3) Soil Texture	(4) Vegetation Cover	(4) Stoniness
BC-SB-00007	/	24	Backhoe	5	New Old Alluvium (RS)	Sandy Loam	<10%	<10%
NOTES: To be used to complete details above.								
1) Surface Soil (0-8 inch) 2) Subsurface Test Pits (0-10 ft.) 3) Subsurface Auger Sample (0-45 ft.) 4) Outcrop Geologic Sample 5) Rock Core Drill Sample 6) Discrete "Target" Sample		BC-XX-###	Hand Backhoe HSA Core Drill Outcrop		New Alluvium Old Alluvium Qtz Monzonite Volcanic Breccia Other (describe)	Sand Loamy Sand Sandy Loam Loam Other (describe)	Proportion of grid covered w/ vegetation? <10% 10-25% 25-50% >50%	Proportion of stones greater than 6 inches? <10% 10-25% 25-50% >50%

BOULDER CITY BYPASS SOIL/BEDROCK FIELD SAMPLE DATA SHEET

Date: 6/2/14	Soil/Bedrock Sample Number: BC-SB-00007	Grid/ID Number: SS-24	GPS Waypoint: TP-7-SB
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BOULDER CITY BYPASS SOIL/BEDROCK FIELD SAMPLE DATA SHEET

Tetra Tech, Inc.
Soil/Bedrock Sampling and ABS

Date: 6/6/14

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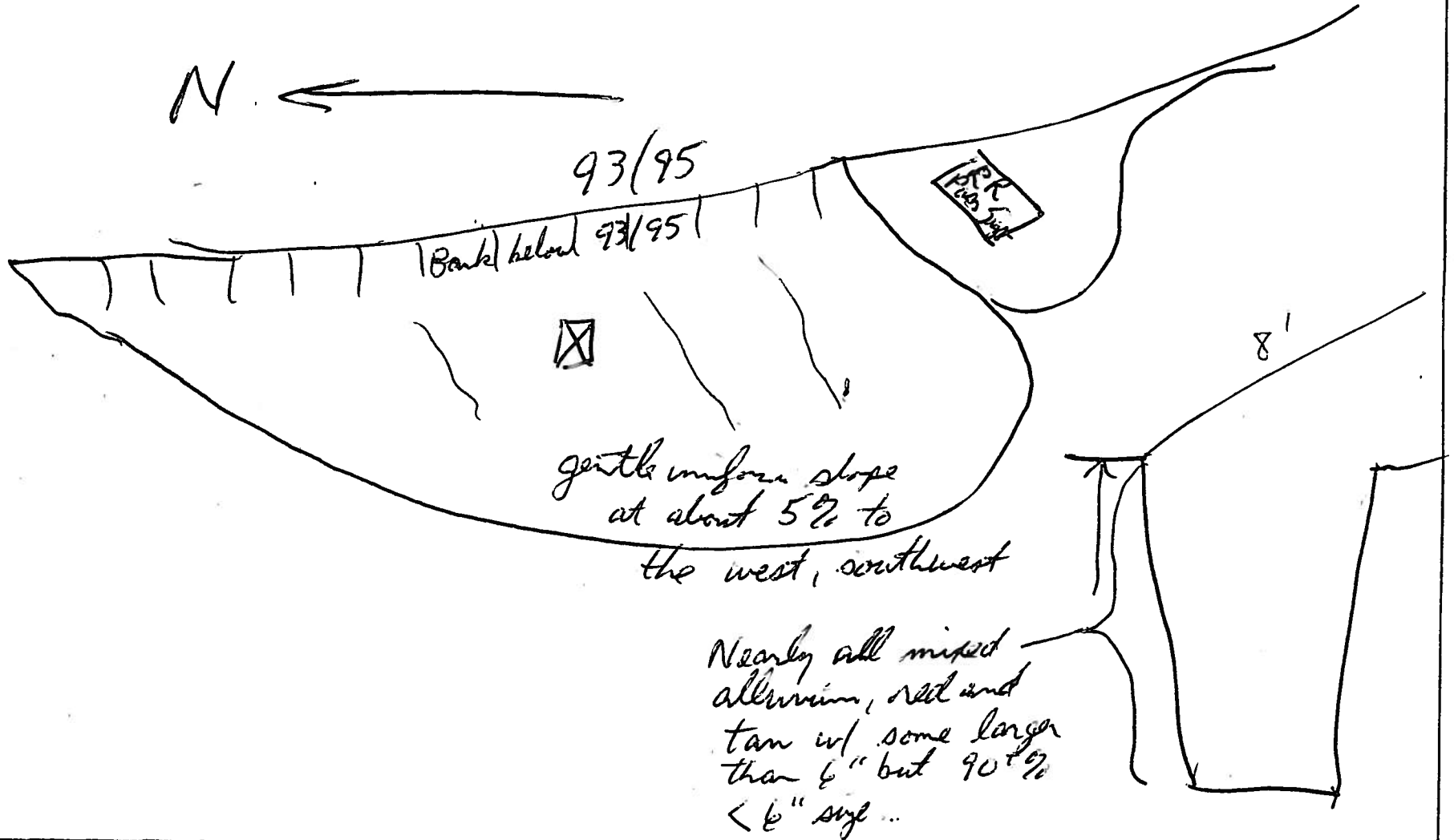
Associated ABS Testing?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Collected By: <u>Team 1</u>	Log Book No: <u>1</u>	
Sample Team Initials: <u>KV, LP, ES</u>	GPS Waypoint: <u>TP-8</u>	
GPS System/Unit #: <u>TT-1</u>	Latitude: _____	
	Longitude: _____	
GPS coordinates should be collected for the center of each sample.		

(1) Soil/Bedrock Sample #	Associated ABS Air Sample #	Grid ID/ Number	Sample Method	Number of Aliquots	(2) Parent Material	(3) Soil Texture	(4) Vegetation Cover	(4) Stoniness
BC-SB-00008	<u>Yes</u> BC-ABS-00038 BC-ABS-00039	<u>26</u>	<u>Backhoe</u>	<u>5</u>	<u>Alluvium</u> <u>Disturbed</u>	<u>Sandy</u> <u>loam</u> <u>but</u> <u>coarse</u> <u>sand</u>	<u><10%</u> <u>mostly</u> <u>grass</u>	<u><10%</u>
NOTES: To be used to complete details above.								
1) Surface Soil (0-8 inch) 2) Subsurface Test Pits (0-10 ft.) 3) Subsurface Auger Sample (0-48 ft.) 4) Outcrop Geologic Sample 5) Rock Core Drill Sample 6) Discrete "Target" Sample		BC-XX-###	Hand Backhoe HSA Core Drill Outcrop		New Alluvium Old Alluvium Qtz Monzonite Volcanic Breccia Other (describe)	Sand Leamy Sand Sandy Loam Loam Other (describe)	Proportion of grid covered w/ vegetation? <10% 10-25% 25-50% >50%	Proportion of stones greater than 8 inches? <10% 10-25% 25-50% >50%

BOULDER CITY BYPASS SOIL/BEDROCK FIELD SAMPLE DATA SHEET

Date: 6/6/14	Soil/Bedrock Sample Number: BC-SB-00008	Grid/ID Number: 26	GPS Waypoint: TP-8
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Site Drawing/Test Pit Log: (Please note % slope of sample area and major erosion features)



BOULDER CITY BYPASS SOIL/BEDROCK FIELD SAMPLE DATA SHEET

Tetra Tech, Inc.
Soil/Bedrock Sampling and ABS

Date: 6/2/14

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Associated ABS Testing?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Collected By: <u>LP</u>	Log Book No: <u>1</u>	
Sample Team Initials: <u>ES, RF, LP, JS</u>	GPS Waypoint: <u>TP-9-SB</u>	
GPS System/Unit #: <u>TT-1</u>	Latitude: <u>N35°58'16.1"</u>	
	Longitude: <u>W114°54'46.9"</u>	
GPS coordinates should be collected for the center of each sample.		

(1) Soil/Bedrock Sample #	Associated ABS Air Sample #s	Grid ID/ Number	Sample Method	Number of Allquots	(2) Parent Material	(3) Soil Texture	(4) Vegetation Cover	(4) Stoniness
BC-SB-00009	/	28	backhoe	5	New Alluvium	Sand	<10%	<10%

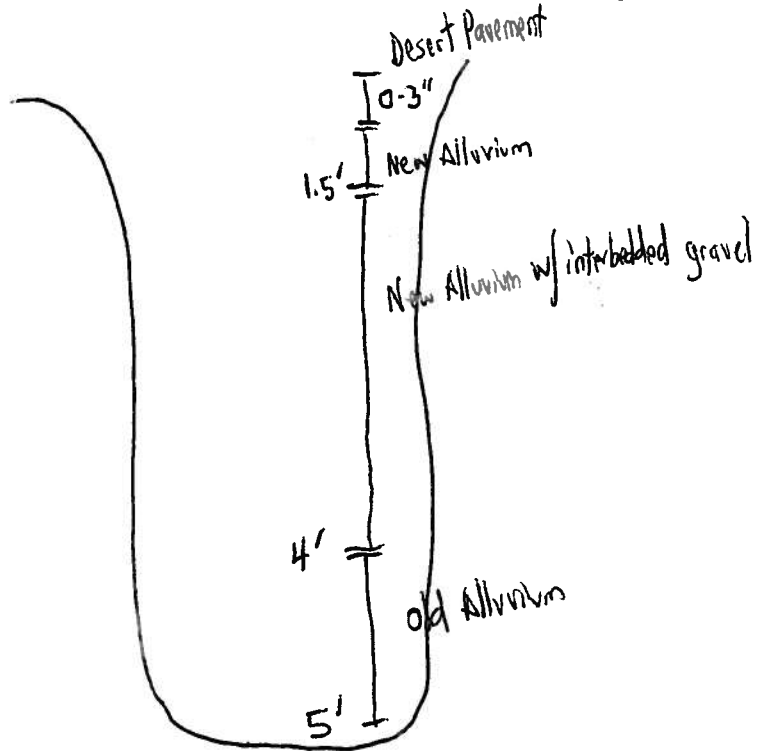
NOTES: To be used to complete details above.

1) Surface Soil (0-8 inch) 2) Subsurface Test Pits (0-10 ft.) 3) Subsurface Auger Sample (0-48 ft.) 4) Outcrop Geologic Sample 5) Rock Core Drill Sample 6) Discrete "Target" Sample	BC-XX-###	Hand Backhoe HSA Core Drill Outcrop	New Alluvium Old Alluvium Qtz Monzonite Volcanic Breccia Other (describe)	Sand Loamy Sand Sandy Loam Loam Other (describe)	Proportion of grid covered w/ vegetation? <10% 10-25% 25-50% >50%	Proportion of stones greater than 6 inches? <10% 10-25% 25-50% >50%
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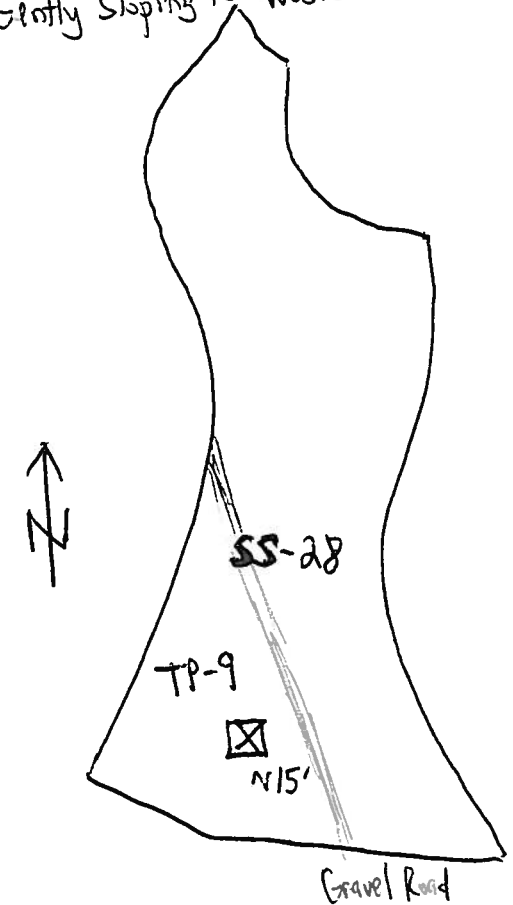
BOULDER CITY BYPASS SOIL/BEDROCK FIELD SAMPLE DATA SHEET

Date: 6/2/14	Soil/Bedrock Sample Number: BC-SB-00009	Grid/ID Number: SS-28	GPS Waypoint: TP-9-SB
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Site Drawing/Test Pit Log: (Please note % slope of sample area and major erosion features)



Gently sloping to west.



BOULDER CITY BYPASS SOIL/BEDROCK FIELD SAMPLE DATA SHEET

Tetra Tech, Inc.
Soil/Bedrock Sampling and ABS

Date: 6/2/14

Associated ABS Testing?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Collected By: <u>RF</u>	Log Book No: <u>1</u>	
Sample Team Initials: <u>ES, RF, LP, AS</u>	GPS Waypoint: <u>TP-SB-10</u>	
GPS System/Unit #: <u>TT-1</u>	Latitude: <u>35°58'11.1"</u>	
	Longitude: <u>114°54'42.7"</u>	
GPS coordinates should be collected for the center of each sample.		

(1) Soil/Bedrock Sample #	Associated ABS Air Sample #s	Grid ID/ Number	Sample Method	Number of Aliquots	(2) Parent Material	(3) Soil Texture	(4) Vegetation Cover	(4) Stoniness
BC-SB-00010	/	35	Backhoe	5	New Alluvium	Sand	<10%	<10%

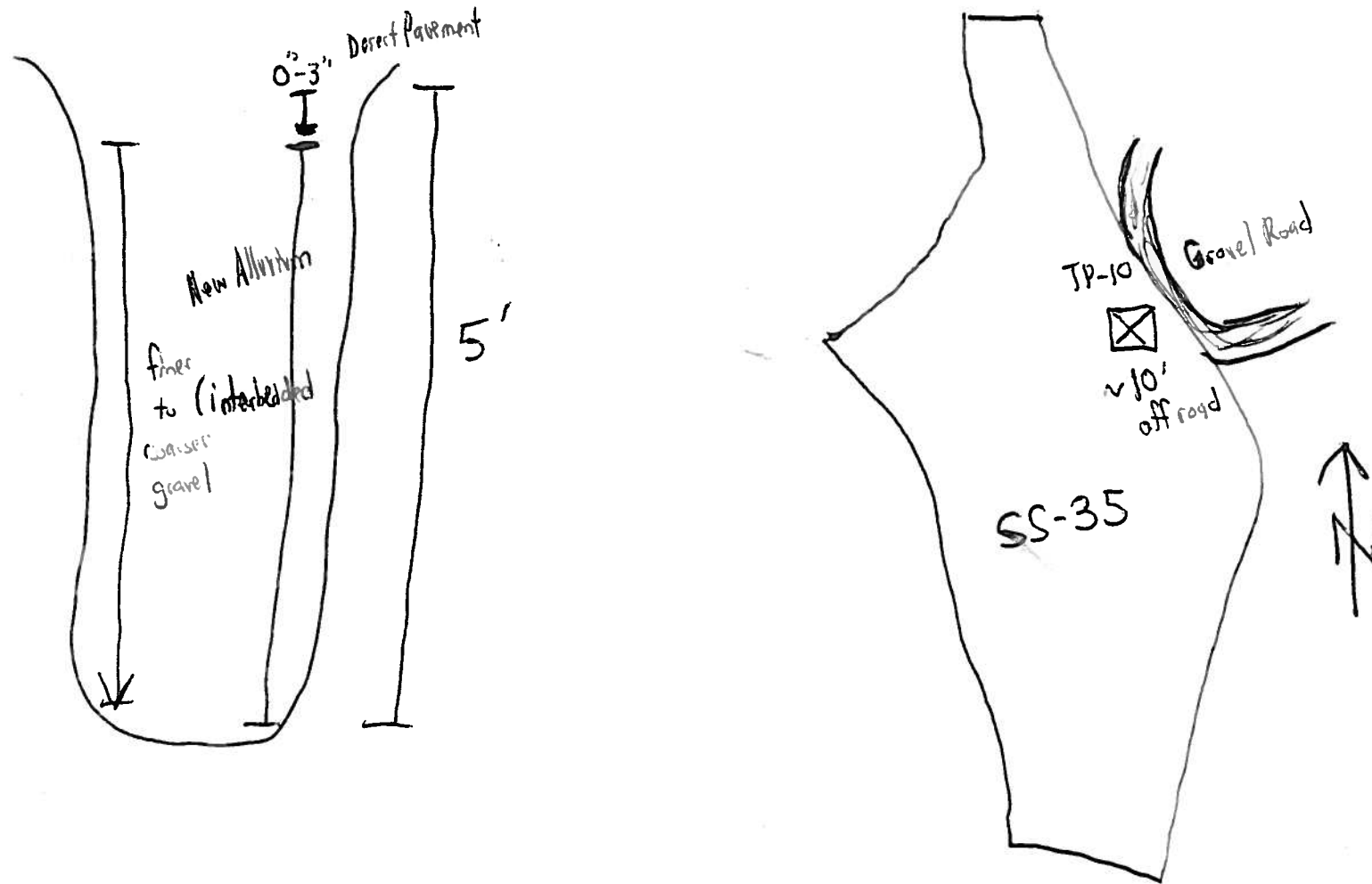
NOTES: To be used to complete details above.

1) Surface Soil (0-8 inch)	BC-XX-###	Hand Backhoe HSA Core Drill Outcrop	New Alluvium Old Alluvium Qtz Monzonite Volcanic Breccia Other (describe)	Sand Loamy Sand Sandy Loam Loam Other (describe)	Proportion of grid covered w/ vegetation?	Proportion of stones greater than 6 inches?
2) Subsurface Test Pits (0-10 ft.)					<10%	<10%
3) Subsurface Auger Sample (0-45 ft.)					10-25%	10-25%
4) Outcrop Geologic Sample					25-50%	25-50%
5) Rock Core Drill Sample					>50%	>50%
6) Discrete "Target" Sample						

BOULDER CITY BYPASS SOIL/BEDROCK FIELD SAMPLE DATA SHEET

Date: 6/2/14	Soil/Bedrock Sample Number: BC-SB-00010	Grid/ID Number: SS-35	GPS Waypoint: TP-10-SB
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Site Drawing/Test Pit Log: (Please note % slope of sample area and major erosion features)



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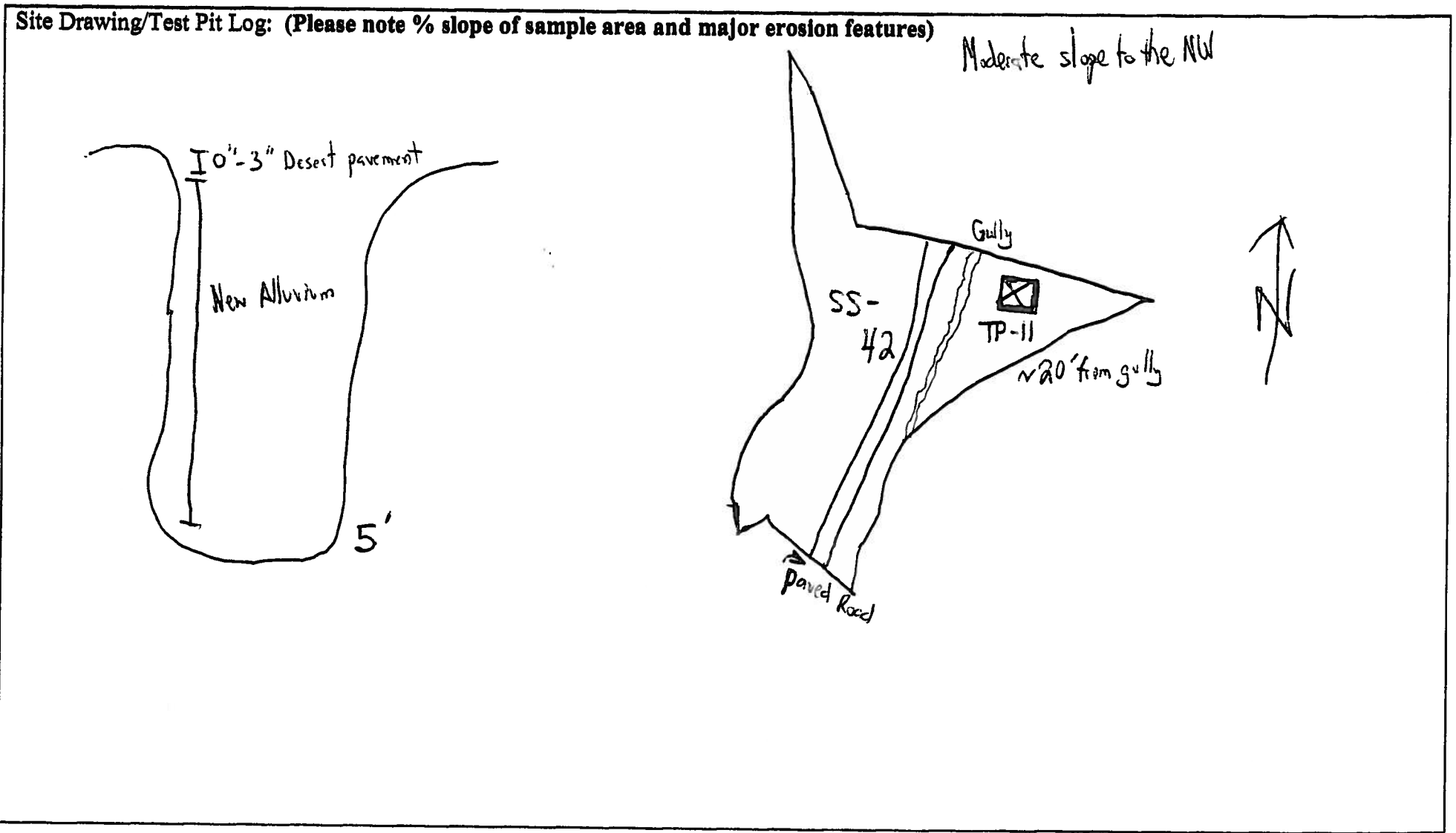
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Collected By: <u>LP</u>	Log Book No: <u>1</u>	
Sample Team Initials: <u>ES, RF, LP, RJ</u>	GPS Waypoint: <u>TP-SB-11</u>	
GPS System/Unit #: <u>TT-1</u>	Latitude: <u>N35° 58' 04.7"</u>	
	Longitude: <u>W114° 54' 39.4"</u>	
GPS coordinates should be collected for the center of each sample.		

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(1) Soil/Bedrock Sample #	Associated ABS Air Sample #s	Grid ID/ Number	Sample Method	Number of Allquots	(2) Parent Material	(3) Soil Texture	(4) Vegetation Cover	(4) Stoniness
BC-SB-00011	/	TP 42	Backhoe	5	New Alluvium	Sand	< 10%	
NOTES: To be used to complete details above.								
1) Surface Soil (0-6 inch) 2) Subsurface Test Pits (0-10 ft.) 3) Subsurface Auger Sample (0-45 ft.) 4) Outcrop Geologic Sample 5) Rock Core Drill Sample 6) Discrete "Target" Sample		BC-XX-###	Hand Backhoe HSA Core Drill Outcrop		New Alluvium Old Alluvium Qtz Monzonite Volcanic Breccia Other (describe)	Sand Loamy Sand Sandy Loam Loam Other (describe)	Proportion of grid covered w/ vegetation? <10% 10-25% 25-50% >50%	Proportion of stones greater than 6 inches? <10% 10-25% 25-50% >50%

BOULDER CITY BYPASS SOIL/BEDROCK FIELD SAMPLE DATA SHEET

Date: 6/2/14	Soil/Bedrock Sample Number: BC-SB-00011	Grid/ID Number: SS-42	GPS Waypoint: TP-SB-11
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BOULDER CITY BYPASS SOIL/BEDROCK FIELD SAMPLE DATA SHEET

Tetra Tech, Inc.
Soil/Bedrock Sampling and ABS

Date: 6/3/14

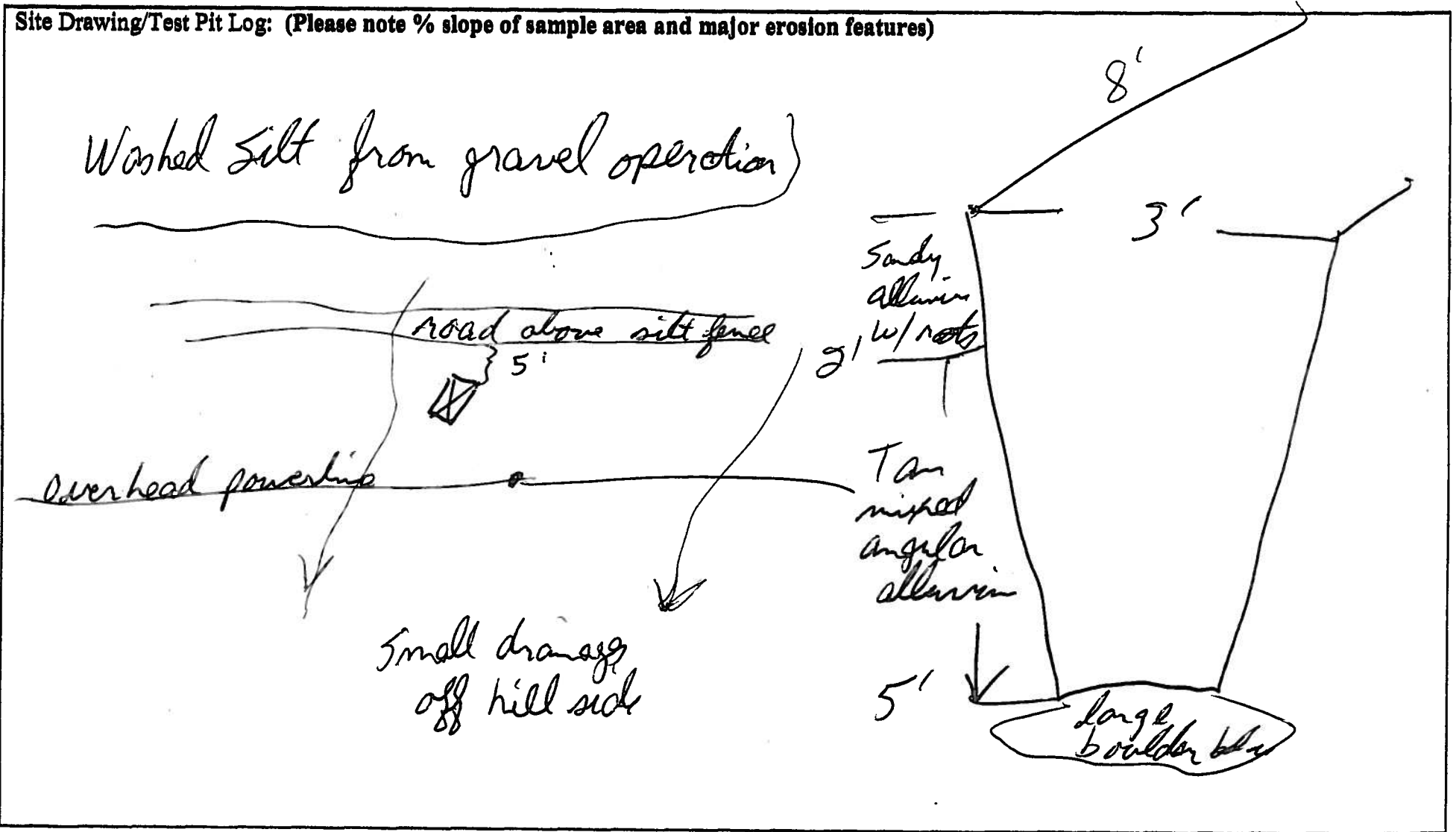
Associated ABS Testing?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Collected By: <u>Team 1</u>	Log Book No: <u>1</u>	
Sample Team Initials: <u>RF, ES, PB</u>	GPS Waypoint: <u>TP-12-SB</u>	
GPS System/Unit #: <u>TT-1</u>	Latitude: _____	
	Longitude: _____	
GPS coordinates should be collected for the center of each sample.		

(1) Soil/Bedrock Sample #	Associated ABS Air Sample #s	Grid ID/ Number	Sample Method	Number of Aliquots	(2) Parent Material	(3) Soil Texture	(4) Vegetation Cover	(4) Stoniness
BC-SB-00012	<u>Yes</u> BC-ABS-00010 BC-ABS-00009	<u>40</u>	<u>Backhoe</u>	<u>5</u>	<u>Rounded old alluvium</u>	<u>Sandy loam</u>	<u>< 10% creosote sedgebrush</u>	<u>10-25% angular</u>
NOTES: To be used to complete details above.								
1) Surface Soil (0-8 inch) 2) Subsurface Test Pits (0-10 ft.) 3) Subsurface Auger Sample (0-45 ft.) 4) Outcrop Geologic Sample 5) Rock Core Drill Sample 6) Discrete "Target" Sample		BC-XX-###	Hand Backhoe HSA Core Drill Outcrop		New Alluvium Old Alluvium Qtz Monzonite Volcanic Breccia Other (describe)	Sand Loamy Sand Sandy Loam Loam Other (describe)	Proportion of grid covered w/ vegetation? <10% 10-25% 25-50% >50%	Proportion of stones greater than 8 inches? <10% 10-25% 25-50% >50%

BOULDER CITY BYPASS SOIL/BEDROCK FIELD SAMPLE DATA SHEET

Date: 6/3/14	Soil/Bedrock Sample Number: BC-SB-00012	Grid/ID Number: 40	GPS Waypoint: TP-12-SB
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Site Drawing/Test Pit Log: (Please note % slope of sample area and major erosion features)



BOULDER CITY BYPASS SOIL/BEDROCK FIELD SAMPLE DATA SHEET

Tetra Tech, Inc.
Soil/Bedrock Sampling and ABS

Date: 6/3/14

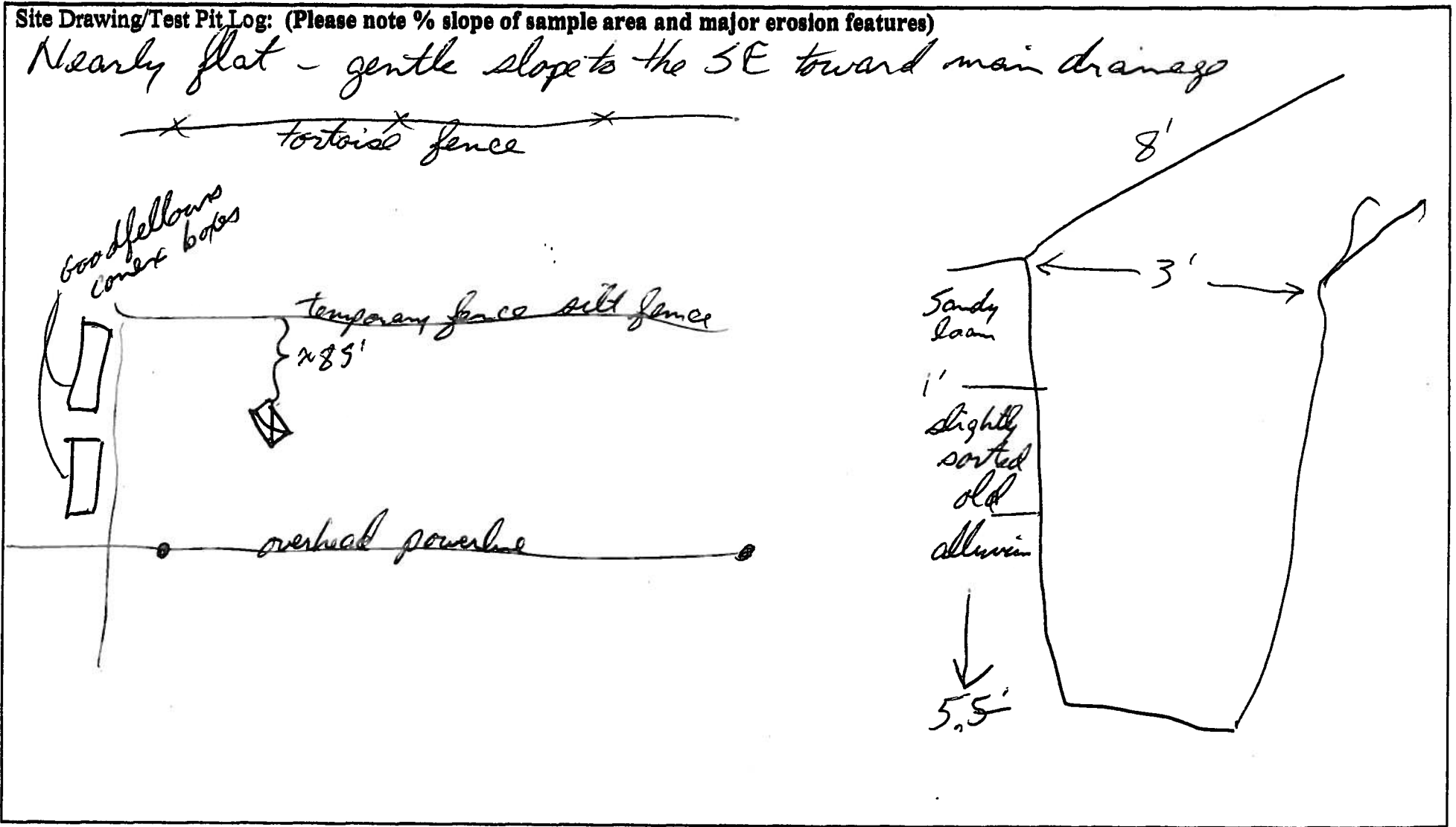
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Collected By: <u>Team 1</u>	Log Book No: <u>1</u>	
Sample Team Initials: <u>RF, ES</u>	GPS Waypoint: <u>TP-13-SB</u>	
GPS System/Unit #: <u>TT-1</u>	Latitude: _____	
	Longitude: _____	
GPS coordinates should be collected for the center of each sample.		

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(1) Soil/Bedrock Sample #	Associated ABS Air Sample #	Grid ID/ Number	Sample Method	Number of Aliquots	(2) Parent Material	(3) Soil Texture	(4) Vegetation Cover	(4) Stoniness
BC-SB-00013	Yes BC-ABS-00013 00010 BC-ABS-00009	46	Backhoe	5	Old Alluvium	Sandy loam	<10% but w/ Cactus may be 10-15%	<10%
NOTES: To be used to complete details above.								
1) Surface Soil (0-8 inch)		BC-XX-###	Hand Backhoe HSA Core Drill Outcrop		New Alluvium Old Alluvium Qtz Monzonite Volcanic Breccia Other (describe)	Sand Loamy Sand Sandy Loam Loam Other (describe)	Proportion of grid covered w/ vegetation? <10% 10-25% 25-50% >50%	Proportion of stones greater than 8 inches? <10% 10-25% 25-50% >50%

BOULDER CITY BYPASS SOIL/BEDROCK FIELD SAMPLE DATA SHEET

Date: 6/3/14	Soil/Bedrock Sample Number: BC-SB-00013	Grid/ID Number: 46	GPS Waypoint: TP-13-5B
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BOULDER CITY BYPASS SOIL/BEDROCK FIELD SAMPLE DATA SHEET

Tetra Tech, Inc.
Soil/Bedrock Sampling and ABS

Date: 6/3/14

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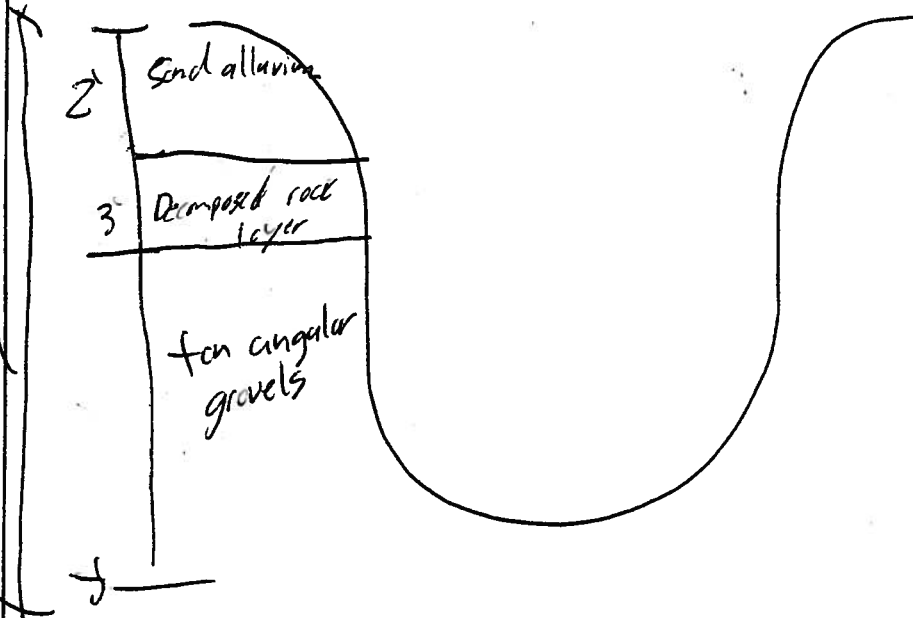
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Collected By: <u>Team 1</u>	Log Book No: <u>6</u>	
Sample Team Initials: <u>RF, ES</u>	GPS Waypoint: <u>TP-14-SB</u>	
GPS System/Unit #: <u>TT-1</u>	Latitude: _____	
	Longitude: _____	
GPS coordinates should be collected for the center of each sample.		

(1) Soil/Bedrock Sample #	Associated ABS Air Sample #	Grid ID/ Number	Sample Method	Number of Aliquots	(2) Parent Material	(3) Soil Texture	(4) Vegetation Cover	(4) Stoniness
BC-SB-00014	Yes BC-ABS-00009 BC-ABS-00010	51	Backhoe	5	Angular old Alluvium	Sandy Loam	< 10%	10-25%
NOTES: To be used to complete details above.								
1) Surface Soil (0-8 inch) 2) Subsurface Test Pits (0-10 ft.) 3) Subsurface Auger Sample (0-48 ft.) 4) Outcrop Geologic Sample 5) Rock Core Drill Sample 6) Discrete "Target" Sample		BC-XX-###	Hand Backhoe HSA Core Drill Outcrop		New Alluvium Old Alluvium Qtz Monzonite Volcanic Breccia Other (describe)	Sand Loamy Sand Sandy Loam Loam Other (describe)	Proportion of grid covered w/ vegetation? <10% 10-25% 25-50% >50%	Proportion of stones greater than 8 inches? <10% 10-25% 25-50% >50%

BOULDER CITY BYPASS SOIL/BEDROCK FIELD SAMPLE DATA SHEET

Date: 6/3/14	Soil/Bedrock Sample Number: BC-SB-00014	Grid/ID Number: 51	GPS Waypoint: TP-14-SB
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Site Drawing/Test Pit Log: (Please note % slope of sample area and major erosion features)



BOULDER CITY BYPASS SOIL/BEDROCK FIELD SAMPLE DATA SHEET

Tetra Tech, Inc.
Soil/Bedrock Sampling and ABS

Date: 6/3/14

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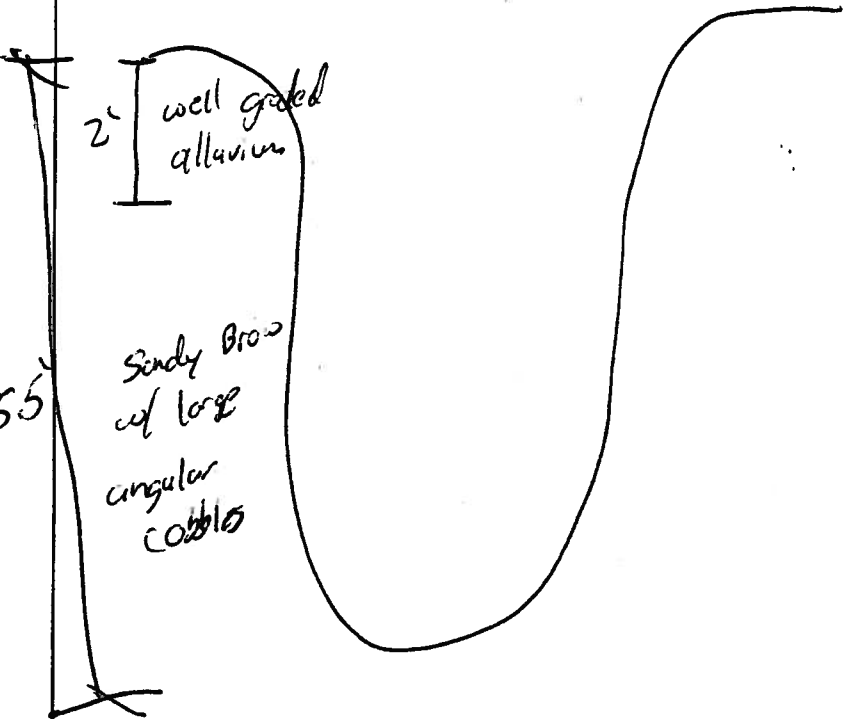
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Collected By: <u>Team 1</u>	Log Book No: <u>1</u>	
Sample Team Initials: <u>RF</u>	GPS Waypoint: <u>TP-15-5B</u>	
GPS System/Unit #: <u>TT-1</u>	Latitude: _____	
	Longitude: _____	
GPS coordinates should be collected for the center of each sample.		

(1) Soil/Bedrock Sample #	Associated ABS Air Sample #	Grid ID/ Number	Sample Method	Number of Aliquots	(2) Parent Material	(3) Soil Texture	(4) Vegetation Cover	(4) Stoniness
BC-SB-00015	<u>Yes</u> BC-ABS-00009 BC-ABS-00010	52	Backhoe	5	Old Alluvium	Sandy Loam	10-25%	10-25%
NOTES: To be used to complete details above.								
1) Surface Soil (0-6 inch) 2) Subsurface Test Pits (0-10 ft.) 3) Subsurface Auger Sample (0-45 ft.) 4) Outcrop Geologic Sample 5) Rock Core Drill Sample 6) Discrete "Target" Sample		BC-XX-###	Hand Backhoe HSA Core Drill Outcrop		New Alluvium Old Alluvium Qtz Monzonite Volcanic Breccia Other (describe)	Sand Loamy Sand Sandy Loam Loam Other (describe)	Proportion of grid covered w/ vegetation? <10% 10-25% 25-50% >50%	Proportion of stones greater than 6 inches? <10% 10-25% 25-50% >50%

BOULDER CITY BYPASS SOIL/BEDROCK FIELD SAMPLE DATA SHEET

Date: 6/3/14	Soil/Bedrock Sample Number: BC-SB- 000 15	Grid/ID Number: 52	GPS Waypoint: TP-15-SB
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Site Drawing/Test Pit Log: (Please note % slope of sample area and major erosion features)



BOULDER CITY BYPASS SOIL/BEDROCK FIELD SAMPLE DATA SHEET

Tetra Tech, Inc.
Soil/Bedrock Sampling and ABS

Date: 6/6/14

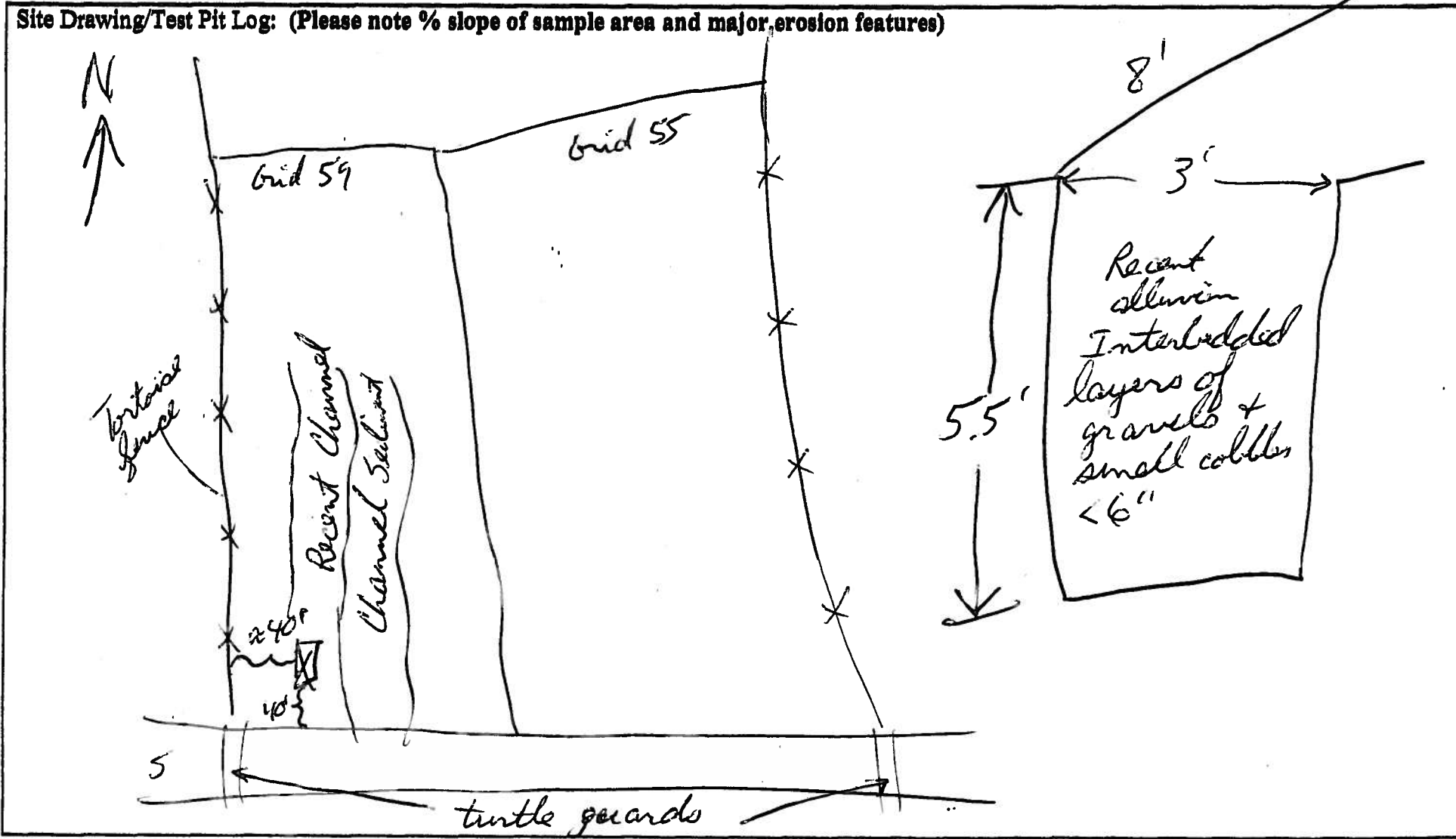
Page 1/2

Associated ABS Testing?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Collected By: <u>Team 1</u>	Log Book No: <u>1</u>	
Sample Team Initials: <u>KV, LP, SM, ES</u>	GPS Waypoint: <u>TP-16-B</u> (May be 2 TP-165)	
GPS System/Unit #: <u>TT-1</u>	Latitude: _____	
	Longitude: _____	
GPS coordinates should be collected for the center of each sample.		

(1) Soil/Bedrock Sample #	Associated ABS Air Sample #s	Grid ID/ Number	Sample Method	Number of Aliquots	(2) Parent Material	(3) Soil Texture	(4) Vegetation Cover	(4) Stoniness
BC-SB-00016	<u>Yes</u> BC-ABS-00028 BC-ABS-00029	52	Backhoe	5	Young Alluvium	Loamy Sandy LSS	<10% creosote + catclaw	<10%
NOTES: To be used to complete details above.								
1) Surface Soil (0-8 inch) 2) Subsurface Test Pits (0-10 ft.) 3) Subsurface Auger Sample (0-48 ft.) 4) Outcrop Geologic Sample 5) Rock Core Drill Sample 6) Discrete "Target" Sample		BC-XX-####	Hand Backhoe HSA Core Drill Outcrop		New Alluvium Old Alluvium Qtz Monzonite Volcanic Breccia Other (describe)	Sand Loamy Sand Sandy Loam Loam Other (describe)	Proportion of grid covered w/ vegetation? <10% 10-25% 25-50% >50%	Proportion of stones greater than 6 inches? <10% 10-25% 25-50% >50%

BOULDER CITY BYPASS SOIL/BEDROCK FIELD SAMPLE DATA SHEET

Date: 6/6/14	Soil/Bedrock Sample Number: BC-SB-00016	Grid/ID Number: 52	GPS Waypoint: TP-16
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BOULDER CITY BYPASS SOIL/BEDROCK FIELD SAMPLE DATA SHEET

Tetra Tech, Inc.
Soil/Bedrock Sampling and ABS

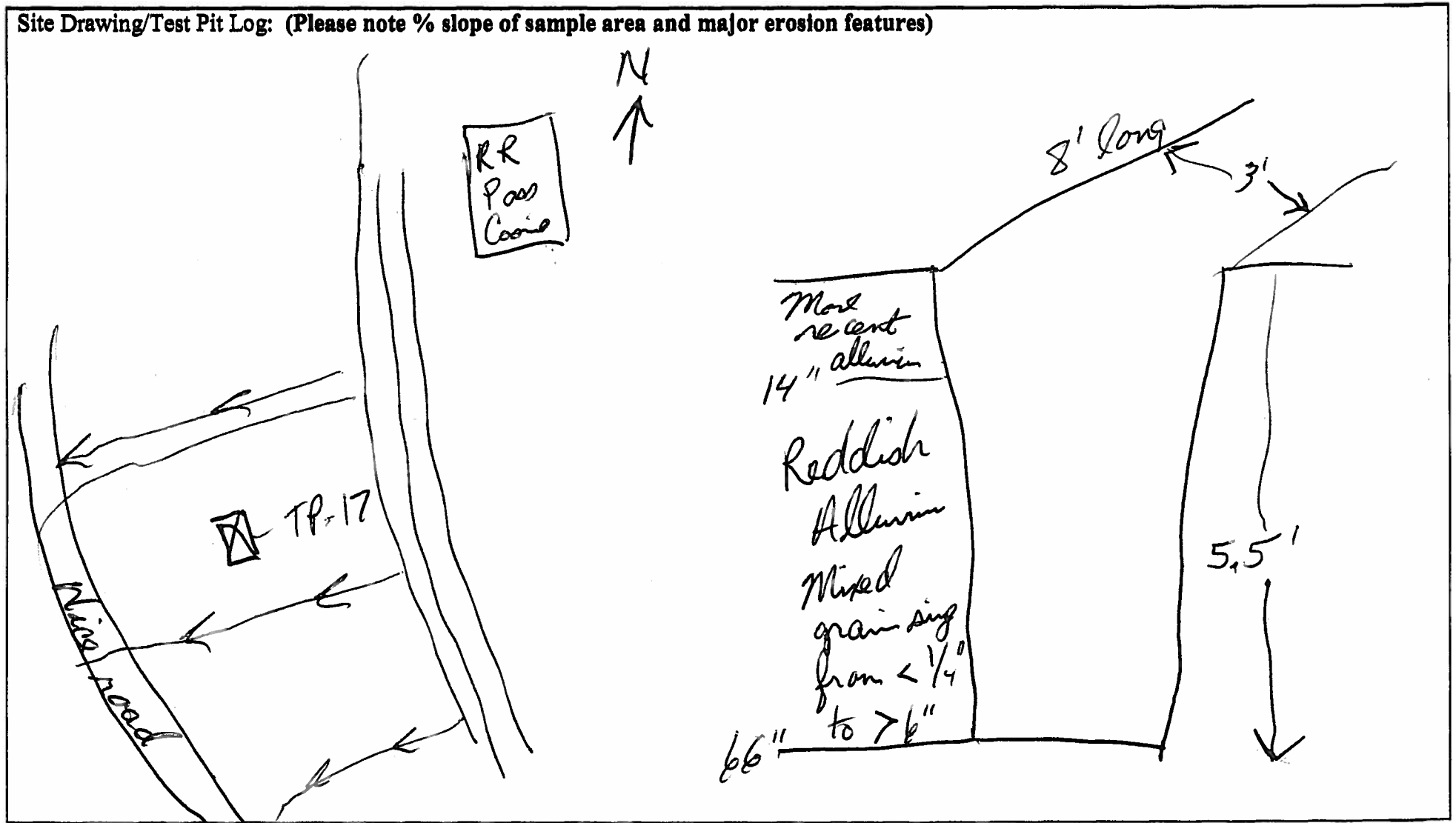
Date: 6/3/14

Associated ABS Testing?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Collected By: <u>Team 1</u>	Log Book No: <u>1</u>	
Sample Team Initials: <u>RF, ES</u>	GPS Waypoint: <u>RF SB-17 TP-17-SB</u>	
GPS System/Unit #: <u>TT-1</u>	Latitude: _____	
	Longitude: _____	
GPS coordinates should be collected for the center of each sample.		

(1) Soil/Bedrock Sample #	Associated ABS Air Sample #	Grid ID/ Number	Sample Method	Number of Aliquots	(2) Parent Material	(3) Soil Texture	(4) Vegetation Cover	(4) Stoniness
BC-SB-00017	BC-ABS-00009 BC-ABS-00010	58	Backhoe	5	Old Alluvium	Sandy loam	< 10% creosote sagebrush	10-25% Red Qtz & Volcanics
NOTES: To be used to complete details above.								
1) Surface Soil (0-8 inch) 2) Subsurface Test Pits (0-10 ft.) 3) Subsurface Auger Sample (0-45 ft.) 4) Outcrop Geologic Sample 5) Rock Core Drill Sample 6) Discrete "Target" Sample		BC-XX-###	Hand Backhoe HSA Core Drill Outcrop		New Alluvium Old Alluvium Qtz Monzonite Volcanic Breccia Other (describe)	Sand Loamy Sand Sandy Loam Loam Other (describe)	Proportion of grid covered w/ vegetation? <10% 10-25% 25-50% >50%	Proportion of stones greater than 8 inches? <10% 10-25% 25-50% >50%

BOULDER CITY BYPASS SOIL/BEDROCK FIELD SAMPLE DATA SHEET

Date: 6/3/14	Soil/Bedrock Sample Number: BC-SB-00017	Grid/ID Number: 58	GPS Waypoint: SB-17 TP-17-SB
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BOULDER CITY BYPASS SOIL/BEDROCK FIELD SAMPLE DATA SHEET

Tetra Tech, Inc.
Soil/Bedrock Sampling and ABS

Date: 6/6/14

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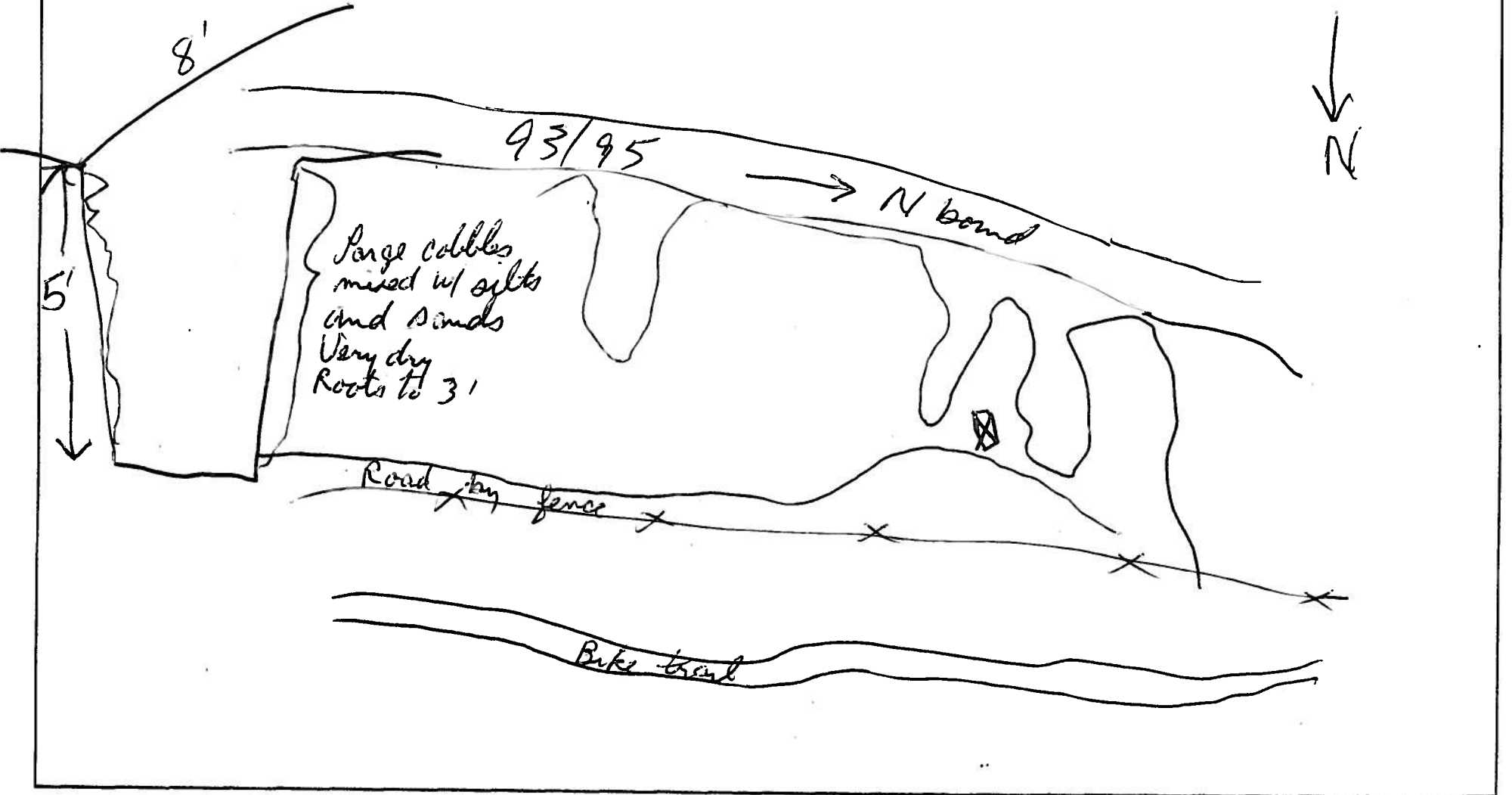
Associated ABS Testing?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Collected By: <u>Team 1</u>	Log Book No: <u>1</u>	
Sample Team Initials: <u>KV, LP, SM, ES</u>	GPS <u>TP-18-SB</u>	
GPS System/Unit #: <u>TT-1</u>	Waypoint: <u>SR</u>	
	Latitude: _____	
	Longitude: _____	
GPS coordinates should be collected for the center of each sample.		

(1) Soil/Bedrock Sample #	Associated ABS Air Sample #	Grid ID/ Number	Sample Method	Number of Aliquots	(2) Parent Material	(3) Soil Texture	(4) Vegetation Cover	(4) Stoniness
BC-SB-00018	<u>Yes</u> BC-ABS-00028 BC-ABS-00029	<u>60</u>	<u>Backhoe</u>	<u>5</u>	<u>Rhyolite + Volcanic breccia</u>	<u>Loam</u>	<u>< 10%</u>	<u>75-50% Manganese 12" org</u>
NOTES: To be used to complete details above.								
1) Surface Soil (0-8 inch) 2) Subsurface Test Pits (0-10 ft.) 3) Subsurface Auger Sample (0-48 ft.) 4) Outcrop Geologic Sample 5) Rock Core Drill Sample 6) Discrete "Target" Sample		BC-XX-###	Hand Backhoe HSA Core Drill Outcrop		New Alluvium Old Alluvium Qtz Monzonite Volcanic Breccia Other (describe)	Sand Loamy Sand Sandy Loam Loam Other (describe)	Proportion of grid covered w/ vegetation? <10% 10-25% 25-50% >50%	Proportion of stones greater than 8 inches? <10% 10-25% 25-50% >50%

BOULDER CITY BYPASS SOIL/BEDROCK FIELD SAMPLE DATA SHEET

Date: 6/6/14	Soil/Bedrock Sample Number: BC-5B-00018	Grid/ID Number: 60	GPS Waypoint: TP-18-5B
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Site Drawing/Test Pit Log: (Please note % slope of sample area and major erosion features)



BOULDER CITY BYPASS SOIL/BEDROCK FIELD SAMPLE DATA SHEET

Tetra Tech, Inc.
Soil/Bedrock Sampling and ABS

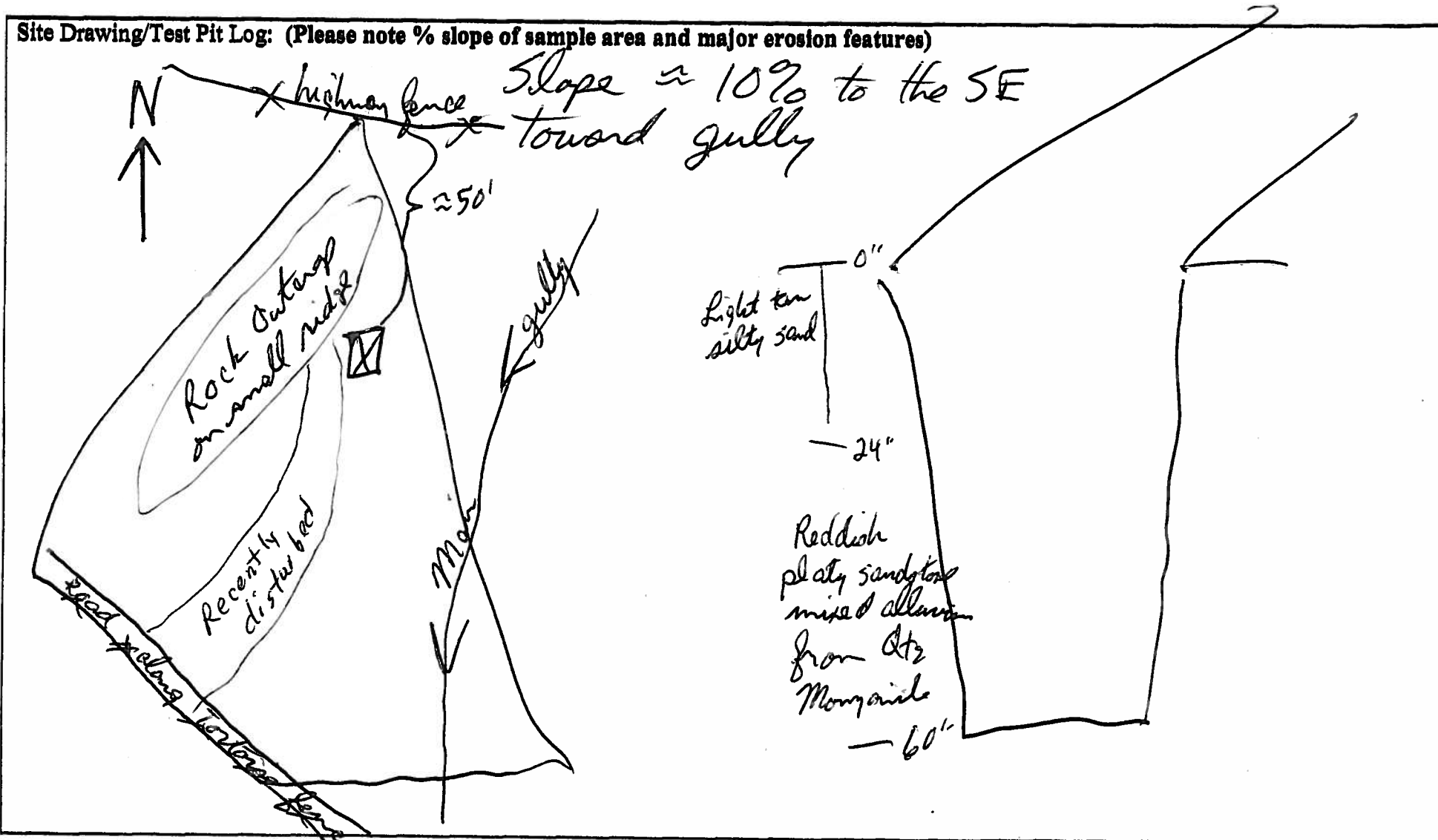
Date: 6/3/14

Associated ABS Testing?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Collected By: <u>Team 1</u>	Log Book No: _____	
Sample Team Initials: <u>RF, ES</u>	GPS Waypoint: <u>TP-19-5B</u>	
GPS System/Unit #: <u>TT-1</u>	Latitude: _____	
	Longitude: _____	
GPS coordinates should be collected for the center of each sample.		

(1) Soil/Bedrock Sample #	Associated ABS Air Sample #s	Grid ID/ Number	Sample Method	Number of Aliquots	(2) Parent Material	(3) Soil Texture	(4) Vegetation Cover	(4) Stoniness
BC-SB-00019	<u>Yes</u> BCABS-00010 BC-ABS-00009	61	Backhoe	5	Old Alluvium Volcanic	Sandy Loam	<10% creosote saltbrush cheatgrass	10-25 hill w/ outcrop included
NOTES: To be used to complete details above.								
1) Surface Soil (0-6 Inch) 2) Subsurface Test Pits (0-10 ft.) 3) Subsurface Auger Sample (0-45 ft.) 4) Outcrop Geologic Sample 5) Rock Core Drill Sample 6) Discrete "Target" Sample		BC-XX-###	Hand Backhoe HSA Core Drill Outcrop		New Alluvium Old Alluvium Qtz Monzonite Volcanic Breccia Other (describe)	Sand Loamy Sand Sandy Loam Loam Other (describe)	Proportion of grid covered w/ vegetation? <10% 10-25% 25-50% >50%	Proportion of stones greater than 6 inches? <10% 10-25% 25-50% >50%

BOULDER CITY BYPASS SOIL/BEDROCK FIELD SAMPLE DATA SHEET

Date: 6/3/14	Soil/Bedrock Sample Number: BC-SB-00019	Grid/ID Number: 61	GPS Waypoint: TP-19-SB
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BOULDER CITY BYPASS SOIL/BEDROCK FIELD SAMPLE DATA SHEET

Tetra Tech, Inc.
Soil/Bedrock Sampling and ABS

Date: 6/3/14

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Associated ABS Testing?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Collected By: <u>Team 1</u>	Log Book No: <u>1</u>	
Sample Team Initials: <u>RF, ES</u>	GPS Waypoint: <u>TP-20-5B</u>	
GPS System/Unit #: <u>TT-1</u>	Latitude: _____	
	Longitude: _____	
GPS coordinates should be collected for the center of each sample.		

(1) Soil/Bedrock Sample #	Associated ABS Air Sample #s	Grid ID/ Number	Sample Method	Number of Aliquots	(2) Parent Material	(3) Soil Texture	(4) Vegetation Cover	(4) Stoniness
BC-SB-00020	<u>Yes</u> BC-ABS-00010 BC-ABS-00009	63	Backhoe	5	Red gtn mariposita	Sandy loam	<10% creosote	10-25%
NOTES: To be used to complete details above.								
1) Surface Soil (0-6 inch) 2) Subsurface Test Pits (0-10 ft.) 3) Subsurface Auger Sample (0-48 ft.) 4) Outcrop Geologic Sample 5) Rock Core Drill Sample 6) Discrete "Target" Sample		BC-XX-###	Hand Backhoe HSA Core Drill Outcrop		New Alluvium Old Alluvium Qtz Monzonite Volcanic Breccia Other (describe)	Sand Loamy Sand Sandy Loam Loam Other (describe)	Proportion of grid covered w/ vegetation? <10% 10-25% 25-50% >50%	Proportion of stones greater than 6 inches? <10% 10-25% 25-50% >50%

BOULDER CITY BYPASS SOIL/BEDROCK FIELD SAMPLE DATA SHEET

Date: 6/3/14	Soil/Bedrock Sample Number: BC-5B-00020	Grid/ID Number: 63	GPS Waypoint: TP-19-5B-925 TP-20-5B
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Site Drawing/Test Pit Log: (Please note % slope of sample area and major erosion features)

