Appendix B

Test Pit Boring Logs

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/24/14
Test Pit No: 3-001
Excavator: 308
Weather: 35°
GW Depth: >4

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, GREY SILTY SAND	0	Ø	X		P / F
06-12	. ORANGE LENS					P / F
12-18	DARK BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36	ORANGE SILTY SAND					P / F
36-42	LIGHT BROWN CLAY					P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TP
Changed from Staked Position:

Date: 11/25/14
Test Pit No: 3-CDIE
Excavator: 308
Weather: ~~22~~ ~~32~~ 300°
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SILTY SAND	0	0	Y		P / F
06-12						P / F
12-18						P / F
18-24	BROWN SILTY CLAY			N		P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48	ORANGE SILTY SAND					P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TP
Logged By: ↓
Changed from Staked Position:

Date: 02/11/13
Test Pit No: 3-001E2
Excavator: 308
Weather: 40°
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	Ø	Ø	N		P / F
06-12	BROWN SILTY SAND	↓	↓	↓		P / F
12-18	↓					P / F
18-24	BROWN SILTY CLAY					P / F
24-30	↓					P / F
30-36						P / F
36-42						P / F
42-48		↓	↓	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/24/14
Test Pit No: 3-002
Excavator: 308
Weather: 32°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18	FINE SAND, GREY			N		P / F
18-24	SILTY CLAY					P / F
24-30						P / F
30-36	BROWN CLAY					P / F
36-42		M				P / F
42-48		W				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/24/14
Test Pit No: ~~3-003~~ 3-003
Excavator: 308
Weather: 32
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	Ø	Y		P / F
06-12	, ORANGE SILTY SAND					P / F
12-18						P / F
18-24	MEDIUM SAND CORE LENS			N		P / F
24-30	DARK BROWN SILTY CLAY					P / F
30-36						P / F
36-42	, COBBLES	M	30			P / F
42-48		W	60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/24/14
Test Pit No: 3-004
Excavator: 308
Weather: 32
GW Depth: 3½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	Ø	Y		P / F
06-12	DARK BROWN SILTY ~~SAND~~ CLAY			N		P / F
12-18						P / F
18-24						P / F
24-30						P / F
30-36	LIGHT BROWN CLAY	M				P / F
36-42		W				P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/24/14
Test Pit No: 3-005
Excavator: 308
Weather: 32°
GW Depth: 3½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	D	Y		P / F
06-12						P / F
12-18	GREY LENS					P / F
18-24	DARK BROWN SILTY CLAY			N		P / F
24-30						P / F
30-36		M				P / F
36-42	MEDIUM SAND	W				P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED

Page ___ of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/24/14
Test Pit No: 3-006
Excavator: 308
Weather: 32°
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18	ORANGE LENS					P / F
18-24	DARK BROWN SILTY CLAY			N		P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48	LIGHT BROWN CLAY					P / F
48-54	MEDIUM SAND					P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TVP
Changed from Staked Position:

Date: 11/24/14
Test Pit No: 3-007
Excavator: 308
Weather: 32°
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	Ø	Y		P / F
06-12	ORANGE LENS					P / F
12-18	LIGHT BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42	DARK BROWN CLAY					P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position: NO

Date: 10/30/14
Test Pit No: 3-008
Excavator: DAVE KIAD,
Weather: CLOUDY, ~35°F
GW Depth: 4.5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	LIGHT BROWN TO YELLOW BROWN SILTY SAND	M	0	Y	Y	P / F
06-12	DARK BROWN LOAMY SILT, TRACE FINE SAND, TRACE ROOTS.	M	0	N	Y	P / F
12-18		M	0	N	N	P / F
18-24		M	0	N	N	P / F
24-30		M	0	N	N	P / F
30-36		M	0	N	N	P / F
36-42	SANDY SILT, DARK REDDISH-BROWN, MOIST	M	0	N	N	P / F
42-48		M	0	N	N	P / F
48-54	(4.5') GRAVELLY SAND, ROUNDED, WET.	W	~~70~~ 60(MP)	N	~~N~~	~~P / F~~ NOT SAMPLED
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TJP
Changed from Staked Position:

Date: 11/07/14
Test Pit No: 3-009
Excavator: 308
Weather: 35° WINDY
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	ORANGE, TAN SILTY SAND	D	Ø	Y		P / F
06-12	DARK BROWN SILTY CLAY			N		P / F
12-18						P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42	LIGHT BROWN SILTY SAND					P / F
42-48		M				(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TYP
Changed from Staked Position:

Date: 11/07/14
Test Pit No: 3-010
Excavator: 308
Weather: 40° SUNNY
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	ORANGE, TAN SILTY SAND	D	Ø	Y		P / F
06-12	~~DARK~~ ↓	↓	↓	↓		P / F
12-18	DARK BROWN SILTY CLAY	↓	↓	N		P / F
18-24	↓	↓	↓	↓		P / F
24-30	↓	↓	↓	↓		P / F
30-36	↓	M	↓	↓		P / F
36-42	LIGHT BROWN SILTY SAND	W	↓	↓		P / F
42-48	ORANGE SILTY SAND, COBBLES	↓	40	N		(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TYP
Changed from Staked Position:

Date: 11/07/14
Test Pit No: 3-011
Excavator: 308
Weather: 45° SUNNY
GW Depth: 3 1/2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	LIGHT TAN SILTY SAND. SOILS	D	0			P / F
06-12	~~LIG~~ LIGHT BROWN SILTY CLAY	↓	↓			P / F
12-18	↓	↓	↓			P / F
18-24	DARK BROWN SILTY CLAY	↓	↓			P / F
24-30	↓	M	↓			P / F
30-36	GRAVELY SAND, COBBLES	W	40			P / F
36-42	↓	↓	60			P / F
42-48	↓	↓	↓			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/24/14
Test Pit No: 3-012
Excavator: 308
Weather: 35°
GW Depth: >4', 6½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN, ORANGE SILTY SAND	D	Ø	Y		P / F
06-12	DARK BROWN SILTY CLAY			N		P / F
12-18	LIGHT BROWN SILTY SAND					P / F
18-24						P / F
24-30						P / F
30-36	, ORANGE LENS					P / F
36-42	, COBBLES		60			P / F
42-48						P / F
48-54		M				P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TYP
Changed from Staked Position:

Date: 11/07/14
Test Pit No: 3-013
Excavator: 308
Weather: 45° SUNNY
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	0	Y		P / F
06-12	LIGHT GREY SILTY SAND	↓	↓	N		P / F
12-18	TAN SILTY CLAY	↓	↓	↓		P / F
18-24	↓, GREY LENS	M	↓	↓		P / F
24-30	DARK BROWN SILTY SAND (COBBLES)	↓	40	↓		P / F
30-36	↓	W	60	↓		P / F
36-42	GRAVELS, COBBLES	↓	↓	↓		P / F
42-48	↓	↓	↓	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/10/14
Test Pit No: 3-013W
Excavator: 308
Weather: 20°
GW Depth: >3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	LIGHT TAN, ORANGE SILTY SAND	D	0	Y		P / F
06-12	LIGHT BROWN SILTY SAND			N		P / F
12-18						P / F
18-24	LIGHT TAN SILTY CLAY			Y		P / F
24-30	DARK BROWN SILTY CLAY			N		P / F
30-36	LIGHT BROWN CLAY					P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/24/14
Test Pit No: 3-014
Excavator: 308
Weather: 32, 35°
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	ORANGE SILTY SAND, SOILS	0	Ø	Y		P / F
06-12	LIGHT BROWN SILTY CLAY			N		P / F
12-18						P / F
18-24	DARK BROWN CLAY					P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/25/14
Test Pit No: 3-014E
Excavator: 308
Weather: 32°
GW Depth: >2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, DARK BROWN SILTY CLAY	D	Ø	N		P / F
06-12						P / F
12-18						P / F
18-24	ORANGE SILTY CLAY					P / F
24-30	BROWN SILTY CLAY					P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TJP
Changed from Staked Position:

Date: 11/25/14
Test Pit No: 3-014E2
Excavator: 308
Weather: 30° SNOW
GW Depth: >41

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	0	Y		P / F
06-12						P / F
12-18	DARK BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36	LIGHT BROWN CLAY					P / F
36-42						P / F
42-48	ORANGE MEDIUM SAND					P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 02/11/15
Test Pit No: 3-01463
Excavator: 308
Weather: 40°
GW Depth: 74'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	0	Ø	N		P / F
06-12	LIGHT BROWN SILTY CLAY	↓	↓	↓		P / F
12-18	↓					P / F
18-24	BLACK SILTY CLAY					P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48	↓	↓	↓	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/24/14
Test Pit No: 3-015
Excavator: 308
Weather: 35°
GW Depth: 74'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	Ø	Y		P / F
06-12	LIGHT BROWN SILTY SAND			N		P / F
12-18	, COBBLES		30			P / F
18-24						P / F
24-30	GRAVELS, COBBLES		60			P / F
30-36						P / F
36-42	, ORANGE LENS					P / F
42-48						Ø / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MA
Logged By: TYP
Changed from Staked Position:

Date: 11/24/14
Test Pit No: 3-016
Excavator: 308
Weather: 32°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, GREY SILTY SAND	D	0	Y		P / F
06-12	DARK BROWN SILTY CLAY			N		P / F
12-18						P / F
18-24						P / F
24-30	MEDIUM SAND, ORANGE LENS					P / F
30-36						P / F
36-42		M				P / F
42-48		W				(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/24/14
Test Pit No: 3-017
Excavator: 308
Weather: 32°
GW Depth: ~~9~~ 5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	O	Ø	Y		P / F
06-12	DARK BROWN SILTY CLAY			N		P / F
12-18						P / F
18-24						P / F
24-30	ORANGE SILTY SAND					P / F
30-36						P / F
36-42	DARK BROWN CLAY					P / F
42-48		M				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/24/14
Test Pit No: 3-018
Excavator: 308
Weather: 32'
GW Depth: 4½

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	0	Y		P / F
06-12						P / F
12-18	DARK BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36	BROWN MEDIUM SAND					P / F
36-42		M				P / F
42-48		M				P / F
48-54	GRAVELS, COBBLES	W	60			P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: SLICKEN AREA, WIDENED, DUE TO SAND

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/24/14
Test Pit No: 3-019
Excavator: 308
Weather: 32°
GW Depth: 3 1/2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN, GREY SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18						P / F
18-24	ORANGE MEDIUM SAND, COKE LENS					P / F
24-30						P / F
30-36		M				P / F
36-42		W		N		P / F
42-48	GREY FINE SAND					P F
48-54	~~MED~~ COARSE GRAVEL					P / F
54-60	, COBBLES		40			P / F
60-66						P / F
66-72						P / F

Remarks: SLICKEN AREA, OXBOW

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MB
Logged By: TYP
Changed from Staked Position:

Date: 11/26/14
Test Pit No: 3-~~3~~020
Excavator: 308
Weather: 32°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, ORANGE SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18	BROWN, GREY SILTY CLAY					P / F
18-24						P / F
24-30	BROWN CLAY			N		P / F
30-36						P / F
36-42		M				P / F
42-48		W				P (F)
48-54	GRAVELLY SAND		40			P / F
54-60	GRAVELS, COBBLES		60			P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: SCOTT LOMBERT
Changed from Staked Position: NO

Date: 10/30/14
Test Pit No: 3-021
Excavator: Dave Kipp
Weather: Cloudy, 35°F
GW Depth: 4.2 Ft

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	yellowish brown sandy silt	M	0	N	N	(P)/ F
06-12	↓ roots	M	0	N	N	(P)/ F
12-18	foamy silt, reddish brown, trace roots	M	0	N	Y	P /(F)
18-24	↓	M	0	N	Y	P /(F)
24-30	silt, dk brown, some roots	M	0	N	Y	P /(F)
30-36	sand, yellowish red,	M	0	N	N	(P)/(F)
36-42	silty sand, reddish yellow + dk brown roots (large)	M	0	N	N	(P)/ F
42-48	silt, drk brown	M	0	N	N	(P)/ F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TYP
Changed from Staked Position:

Date: 11/07/14
Test Pit No: 3-022
Excavator: 308
Weather: 50° SUNNY
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	ORANGE, TAN SILTY SAND	D	~~20~~	Y		P / F
06-12						P / F
12-18	DARK BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42	~~M~~ GRAVELY SAND	M	40			P / F
42-48	GRAVELS, COBBLES	W	60			(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TYP
Changed from Staked Position:

Date: 11/07/14
Test Pit No: 3-023
Excavator: 308
Weather: 50° SUNNY
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN, ORANGE SILTY SAND	D	0	Y		P / F
06-12	DARK BROWN SILTY CLAY			N		P / F
12-18	LIGHT BROWN SILTY SAND					P / F
18-24						P / F
24-30		M				P / F
30-36		W				P / F
36-42	GRAVELY SAND COBBLES		40			P / F
42-48	GRAVELS, COBBLES		60			(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: JVP
Changed from Staked Position:

Date: 11/07/14
Test Pit No: 3-024
Excavator: 308
Weather: 50° SUNNY
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	ORANGE, TAN SILTY SAND	D	0	Y		P / F
06-12	DARK BROWN SILTY CLAY			N		P / F
12-18	LIGHT BROWN CLAY					P / F
18-24						P / F
24-30		M				P / F
30-36		W				P / F
36-42	MEDIUM ~~GRAVELLY~~ SILTY SAND, ORANGE TINT					P / F
42-48	, COBBLES		40	✓		(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TYP
Changed from Staked Position:

Date: 11/06/14
Test Pit No: 3-025
Excavator: 308
Weather: 50° SUNNY
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	O	Ø	Y		P / F
06-12	, ORANGE LENS			Y		P / F
12-18	DARK BROWN SILTY CLAY			N		P / F
18-24				N		P / F
24-30		M		N		P / F
30-36		W		N		P / F
36-42	GRAVELY SAND, ORANGE LENS		30	Y		P / F
42-48	GRAVELS, COBBLES		60	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TJP
Changed from Staked Position:

Date: 11/06/14
Test Pit No: ~~3-125W~~ 3-025W
Excavator: 308
Weather: 50° SUNNY
GW Depth: 2 1/2

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	ORANGE SILTY SAND	0	0	Y		P / F
06-12	DARK BROWN SILTY CLAY	↓	↓	N		P / F
12-18	↓	↓	↓	↓		P / F
18-24	GRAVELY SAND	M	40	↓		(P) / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/24/14
Test Pit No: 3-026
Excavator: 308
Weather: 25°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18	, ORANGE SILTY SAND					P / F
18-24						P / F
24-30	GREY SILTY CLAY			N		P / F
30-36	ORANGE MEDIUM SAND					P / F
36-42		BM				P / F
42-48	DARK MEDIUM SAND	W				P / F
48-54	, COBBLES		40			P / F
54-60			60			P / F
60-66						P / F
66-72						P / F

Remarks: SLICKEN AREA, OXBOW, DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/26/14
Test Pit No: 3-026N
Excavator: 308
Weather: 32° SNOW
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	0	~~1~~ 0	~~N~~ Y		P / F
06-12						P / F
12-18	LIGHT BROWN SILTY CLAY		~~N~~	N		P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42	BROWN CLAY					P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MD
Logged By: TY
Changed from Staked Position:

Date: 11/26/14
Test Pit No: 3-026N2
Excavator: 308
Weather: 32°
GW Depth: >2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	D	Ø	N		P / F
06-12	LIGHT BROWN SILTY CLAY					P / F
12-18						P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/25/14
Test Pit No: 3-027
Excavator: 308
Weather: 32 SNOW
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN, ORANGE SILTY SAND	D	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	ORANGE MEDIUM SAND	↓	↓	N		P / F
18-24	↓	↓	↓	↓		P / F
24-30	↓	↓	↓	↓		P / F
30-36	↓	M	↓	↓		P / F
36-42	GRAVELS, COBBLES	W	60	↓		P / F
42-48	↓	↓	↓	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/25/14
Test Pit No: 3-027E
Excavator: 308
Weather: 30° SNOW
GW Depth: >3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	Ø	Ø	Y		P / F
06-12						P / F
12-18	DARK BROWN BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 02/11/15
Test Pit No: ~~4-0~~ 3-027-E2
Excavator: 308
Weather: 40°
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	LIGHT BROWN SILTY CLAY	D	Ø	N		P / F
06-12	BROWN SILTY CLAY	↓	↓	↓		P / F
12-18	↓					P / F
18-24						P / F
24-30						P / F
30-36	LIGHT BROWN CLAY					P / F
36-42	↓					P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/25/14
Test Pit No: 3-028
Excavator: 308
Weather: 32° RAIN
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND, SOILS	D	Ø	Y		P / F
06-12	ORANGE SILTY SAND					P / F
12-18	LIGHT BROWN CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48	MEDIUM SAND	~~WET~~ M				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MJ
Logged By: TMP
Changed from Staked Position:

Date: 11/25/14
Test Pit No: 3-029
Excavator: 308
Weather: 35° RAIN
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, GREY SILTY CLAY	0	Ø	Y		P / F
06-12				↓		P / F
12-18	MEDIUM SAND			N		P / F
18-24						P / F
24-30						P / F
30-36	ORANGE LENS	↓				P / F
36-42		M				P / F
42-48		W	↓	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/25/14
Test Pit No: ~~11/25/14~~ 3-030
Excavator: 308
Weather: 35° RAINING
GW Depth: 3½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	9	~~10~~ Y		P / F
06-12	ORANGE SILTY SAND					P / F
12-18	DARK BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30	ORANGE LENS					P / F
30-36	MEDIUM SAND	M				P / F
36-42		W	40			P / F
42-48	COARSE GRAVEL					(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: SLICKEN OXBOW, DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/26/14
Test Pit No: 3-031
Excavator: 308
Weather: 32°
GW Depth: ~~4ft~~ 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	ORANGE SILTY SOIL	D	D	Y		P / F
06-12						P / F
12-18						P / F
18-24						P / F
24-30	~~BR~~ GREY SILTY CLAY			N		P / F
30-36						P / F
36-42		M				P / F
42-48	~~BR~~ ORANGE MEDIUM SAND	W				P / F
48-54	GRAVELS, COBBLES		40			P / F
54-60			60			P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: Scott LAMBERT
Changed from Staked Position: No

Date: 10/30/14
Test Pit No: 3-032
Excavator: Dave Kipp
Weather: Cloudy 35°F
GW Depth: 14 ft

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	Sand, yellowish brown	M	0	N	N	(P)/F
06-12	roots	M	0	N	N	(P)/F
12-18	brown silty clay	M	0	N	Y	P/(F)
18-24	reddish brown sand some clays	M	0	N	Y	P/(F)
24-30	dk brown some roots sandy silt	M	0	N	Y	P/(F)
30-36	dk brown, ~~sat~~ sandy silt	M	0	N	N	(P)/(F)
36-42	Gravel, variable sizes	W	80	N	Y	P/(F)
42-48		W	80	N	N	(P)/F
48-54						P/F
54-60						P/F
60-66						P/F
66-72						P/F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TYP
Changed from Staked Position:

Date: 11/07/14
Test Pit No: 3-033
Excavator: 308
Weather: 45° WINDY
GW Depth: 3½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	DARK TAN SILTY SAND	O	Ø	Y-?		P / F
06-12	DARK BROWN SILTY CLAY	↓	↓	N		P / F
12-18	↓	↓	↓	↓		P / F
18-24	↓	↓	↓	↓		P / F
24-30	GRAVELS, COBBLES	M	60	↓		P / F
30-36	↓	W	↓	↓		P / F
36-42	, ORANGE TINT	↓	↓	↓		P / F
42-48	↓	↓	↓	↓		(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED

Page ___ of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TYP
Changed from Staked Position:

Date: 11/07/14
Test Pit No: 3-034
Excavator: 308
Weather: 45° WINDY
GW Depth: 3½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	DARK TAN SILTY SAND	D	0	N		P / F
06-12	DARK BROWN SILTY CLAY					P / F
12-18						P / F
18-24						P / F
24-30	GRAVELS, COBBLES	M	40-60			P / F
30-36		M				P / F
36-42		W				P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED, SULFUR SMELL

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4 **Date:** 11/06/14
Contractor: Jordan Construction **Test Pit No:** 3-035
Photo ID: NP **Excavator:** 308
Logged By: TYP **Weather:** 50°/ SUNNY
Changed from Staked Position: **GW Depth:** 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN, ORANGE SILTY SAND	D	Ø	Y		P / F
06-12	LIGHT BROWN SILTY CLAY	↓	↓	N		P / F
12-18	↓	↓	↓	↓		P / F
18-24	DARK BROWN CLAY	↓	↓	↓		P / F
24-30	↓	M	↓	↓		P / F
30-36	GRAVEL, COBBLES	W	40	↓		P / F
36-42	↓	↓	60	↓		~~P~~ / F
42-48	↓	↓	↓	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TYP
Changed from Staked Position:

Date: 11/06/14
Test Pit No: 3-035 W
Excavator: 308
Weather: 50° SUNNY
GW Depth: 2 1/2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	ORANGE SILTY ~~SAND~~ SAND, SOIL	D	Ø	Y		P / F
06-12	& DARK BROWN SILTY CLAY	↓	↓	~~Y~~ N		P / F
12-18	↓	↓	↓	↓		P / F
18-24	GRAVELY SAND	M	40	↓		P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/25/14
Test Pit No: 3-036
Excavator: 308
Weather: 32°, SNOW
GW Depth: 3½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	Ø	Y		P / F
06-12				↓		P / F
12-18	LIGHT BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30		↓				P / F
30-36	DARK BROWN CLAY	M				P / F
36-42		W				P / F
42-48		↓	↓	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MD
Logged By: TP
Changed from Staked Position:

Date: 11/25/14
Test Pit No: 3-036E
Excavator: 308
Weather: 30° SNOW
GW Depth: >4', 5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, COBBLES	D	60	N		P / F
06-12						P / F
12-18	TAN SILTY CLAY		Ø	Y		P / F
18-24	GREY LENS					P / F
24-30	ORANGE SAND					P / F
30-36				N		P / F
36-42						P / F
42-48	BROWN SAND					P / F
48-54	GRAVELS, COBBLES	M	40			P / F
54-60		W	60			P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: T/P
Logged By: ↓
Changed from Staked Position:

Date: 02/11/15
Test Pit No: 3-036E2
Excavator: 308
Weather: 40°
GW Depth: >3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	D	Ø	N		P / F
06-12	BROWN SILTY CLAY					P / F
12-18						P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TP
Changed from Staked Position:

Date: 11/25/14
Test Pit No: 3-037
Excavator: 308
Weather: 32° SNOW
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	GREY, TAN SILTY SAND	D	0	Y		P / F
06-12						P / F
12-18						P / F
18-24	DARK BROWN SILTY CLAY			N		P / F
24-30						P / F
30-36	MEDIUM SAND, ORANGE					P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TVP
Changed from Staked Position:

Date: 11/25/14
Test Pit No: 3-038
Excavator: 308
Weather: 35° RAIN
GW Depth: 4 1/2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18						P / F
18-24	LIGHT BROWN SILTY CLAY			N		P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48		M				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: YP
Changed from Staked Position:

Date: 11/25/14
Test Pit No: 3-039
Excavator: 308
Weather: 35° RAIN
GW Depth: 3½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	0	Y		P / F
06-12						P / F
12-18	ORANGE SILTY CLAY, GREY LENS					P / F
18-24	ORANGE MEDIUM SAND, COKE LENS			N		P / F
24-30						P / F
30-36		M				P / F
36-42		W				P / F
42-48	COARSE GRAVEL		60			P / F
48-54	COBBLES					P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/26/14
Test Pit No: 3-039N
Excavator: 308
Weather: 32 SNOW
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	Ø	Ø	Y		P / F
06-12						P / F
12-18	DARK BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42	BROWN CLAY					P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/26/14
Test Pit No: 3-040
Excavator: 308
Weather: 30°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	ORANGE SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18	DARK BROWN SILTY CLAY					P / F
18-24				N		P / F
24-30	MEDIUM SAND					P / F
30-36	, ORANGE LENS					P / F
36-42	& GRAVELS, COBBLES	M	40			P / F
42-48		W	60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 10/10/14
Test Pit No: 3-041
Excavator: 308
Weather: 20°
GW Depth: 3½

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	O	Ø	Y		P / F
06-12	DARK BROWN SILTY CLAY	↓	↓	N		P / F
12-18	↓	↓	↓	↓		P / F
18-24	↓	↓	↓	↓		P / F
24-30	MEDIUM GRAVELY SAND (ORANGE LENS)	M	30	Y		P / F
30-36	GRAVELY SAND	W	40-60	N		P / F
36-42	↓	↓	↓	↓		P / F
42-48	↓	↓	↓	↓		(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/10/14
Test Pit No: 3-042
Excavator: 308
Weather: 20°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	0	Y		P / F
06-12	~~DARK B~~					P / F
12-18	~~DA~~ DARK BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42	GRAVEL + COBBLES	M	40-60			P / F
42-48		W				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TVP
Changed from Staked Position:

Date: 11/07/14
Test Pit No: 3-043
Excavator: 308
Weather: 45° WINDY
GW Depth: 3½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	LIGHT TAN, ORANGE SILTY SAND	D	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	DARK BROWN SILTY CLAY, TAN SILTY SAND	↓	↓	↓		P / F
18-24	↓	↓	↓	N		P / F
24-30	LIGHT BROWN CLAY	M	↓	↓		P / F
30-36	↓	M	↓	↓		P / F
36-42	GRAVELS, COBBLES	W	40-60	↓		P / F
42-48	↓	↓	↓	↓		(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/25/14
Test Pit No: 3-045
Excavator: 308
Weather: 32° SNOW
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN, ORANGE SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18						P / F
18-24	ORANGE SILTY SAND			N		P / F
24-30						P / F
30-36						P / F
36-42		M				P / F
42-48		W				P / F
48-54	BLACK SAND					P / F
54-60						P / F
60-66	COARSE GRAVEL					P / F
66-72			40-60			P / F

Remarks: DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TMP
Changed from Staked Position:

Date: 11/25/14
Test Pit No: 3-045G
Excavator: 308
Weather: 30° Snow
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	<0	Y		P / F
06-12						P / F
12-18	DARK BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42	LIGHT BROWN CLAY					P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TP
Changed from Staked Position:

Date: 11/25/14
Test Pit No: 3-045N
Excavator: 308
Weather: 30° SNOW
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	0	Ø	Y		P / F
06-12						P / F
12-18	LT DARK BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42	LIGHT BROWN CLAY					P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/26/14
Test Pit No: 3-045N2
Excavator: 308
Weather: 32 SNOW
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND, SOILS	0	0	Y		P / F
06-12						P / F
12-18	LIGHT BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30	ORANGE MEDIUM SAND					P / F
30-36						P / F
36-42						P / F
42-48	BROWN SILTY SAND					P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 02/11/15
Test Pit No: 3-045E2
Excavator: 308
Weather: 40°
GW Depth: 74'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, COBBLES	Ø	~20	N		P / F
06-12	BROWN SILTY CLAY	↓	Ø	↓		P / F
12-18	↓	↓	↓	↓		P / F
18-24	↓	↓	↓	↓		P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: mp
Logged By: TJP
Changed from Staked Position:

Date: 11/25/14
Test Pit No: 3-046
Excavator: 308
Weather: 35° RAIN
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, ORANGE SILTY SAND	0	0	Y		P / F
06-12						P / F
12-18	LIGHT BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TYP
Changed from Staked Position:

Date: 11/07/14
Test Pit No: 3-047
Excavator: 308
Weather: 50° CALM
GW Depth: 3½

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	ORANGE SILTY SAND	D	Ø	Y		P / F
06-12	LIGHT BROWN SILTY CLAY			N		P / F
12-18						P / F
18-24	LIGHT BROWN SILTY SAND					P / F
24-30		M				P / F
30-36	GRAVELLY SAND	W	40			P / F
36-42	GRAVEL & COBBLES		60			P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/26/14
Test Pit No: 3-048
Excavator: 308
Weather: 35°
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	0	0	Y		P / F
06-12						P / F
12-18	LIGHT BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36	BROWN CLAY					P / F
36-42						P / F
42-48	BROWN MEDIUM SAND					P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 12/01/14
Test Pit No: 3-049
Excavator: 308
Weather: 50
GW Depth: 3'2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	GRAVELS, COBBLES	O	60	N		P / F
06-12						P / F
12-18						P / F
18-24						P / F
24-30	BLACK SILTY SAND, COBBLES, ROOTS					P / F
30-36		M				P / F
36-42		W				P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TJP
Changed from Staked Position:

Date: 11/10/14
Test Pit No: 3-050
Excavator: 308
Weather: 20°
GW Depth: 3½

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	2 SOILS, TAN SILTY SAND	D	Ø	Y		P / F
06-12	ORANGE SILTY SAND	↓	↓	↓		P / F
12-18	DARK BROWN SILTY CLAY	↓	↓	N		P / F
18-24	↓	↓	↓	↓		P / F
24-30	↓	M	↓	↓		P / F
30-36	MEDIUM SAND COBBLES, ORANGE LENS	W	40	Y		P / F
36-42	GRAVELY SAND, COBBLES	↓	60	N		P / F
42-48	↓	↓	↓	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TYP
Changed from Staked Position:

Date: 11/07/14
Test Pit No: 3-051
Excavator: 308
Weather: 50° WINDY
GW Depth: 3 1/2

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	0	Y		P / F
06-12						P / F
12-18	TAN SILTY SAND GREY & ORANGE LENS					P / F
18-24						P / F
24-30	DARK BROWN SILTY CLAY	M		N		P / F
30-36		W				P / F
36-42	MEDIUM SAND					P / F
42-48	GRAVELS, COBBLES		60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TJP
Changed from Staked Position:

Date: 11/10/14
Test Pit No: J-05/2
Excavator: 308
Weather: 20°
GW Depth: >2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, LIGHT TAN SILTY SAND	0	0	Y		P / F
06-12	LIGHT BROWN SILTY CLAY			N		P / F
12-18	GREY SILTY CLAY					P / F
18-24						0 / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: ML
Logged By: TYP
Changed from Staked Position:

Date: 11/26/14
Test Pit No: 3-052
Excavator: 308
Weather: 35
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	0	Y		P / F
06-12						P / F
12-18	DARK BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42	GRAVELS, COBBLES		40			P / F
42-48			60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/26/14
Test Pit No: 3-053
Excavator: 308
Weather: 35°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, ORANGE SILTY CLAY	D	0	Y		P / F
06-12						P / F
12-18						P / F
18-24	BROWN CLAY			N		P / F
24-30						P / F
30-36	MEDIUM SAND					P / F
36-42		M				P / F
42-48	, ORANGE SAND	W				P / F
48-54	GRAVELS, COBBLES		40-60			P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/26/14
Test Pit No: 3-054
Excavator: 308
Weather: 35°
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	M	Ø	Y		P / F
06-12	BROWN SILTY CLAY			N		P / F
12-18	TAN SILTY SAND					P / F
18-24						P / F
24-30						P / F
30-36	GRAVELS, COBBLES		40-60			P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: Scott Lambert
Changed from Staked Position: ~~RD~~ 2 FT east

Date: 10/30/14
Test Pit No: 3-055
Excavator: Dave Kipp
Weather: Cloudy 35 F
GW Depth: 4.2 FT

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	sand yellowish brown roots	M	0	N	N	(P) / F
06-12	silt yellowish brown trace roots	M	0	N	Y	P / (F)
12-18	fine sand yellowish brown trace roots	M	0	N	Y	P / (F)
18-24	yellowish brown, silt loam	M	0	N	Y	P / (F)
24-30		M	0	N	N	(P) / F
30-36	loamy silt, dk brown	M	0	N	N	(P) / F
36-42	sandy silt, fine grain greyish brown	M	0	N	N	(P) / F
42-48	sand, grey, uniform in size	W	0	N	N	(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TYP
Changed from Staked Position:

Date: 11/06/14
Test Pit No: 3-056
Excavator: 308
Weather: 50° SUNNY
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN + ORANGE SILTY SAND	D	~~0~~	Y		P / F
06-12						P / F
12-18	DARK BROWN SILTY CLAY, GREY LENS					P / F
18-24	LIGHT BROWN CLAY			~~Y~~ N		P / F
24-30						P / F
30-36	COBBLES		30			P / F
36-42		M				P / F
42-48	GRAVELY SAND	W	40-60			(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MAP
Logged By: TYP
Changed from Staked Position:

Date: 11/10/14
Test Pit No: 3-057
Excavator: 308
Weather: 20°
GW Depth: 3 1/2

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, ORANGE & TAN SILTY SAND	D	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	DARK BROWN SILTY CLAY	↓	↓	N		P / F
18-24	↓	↓	↓	↓		P / F
24-30	LIGHT BROWN CLAY	M	↓	↓		P / F
30-36	GRAVELY SAND	W	30	↓		P / F
36-42	GRAVEL & COBBLES	↓	40-60	↓		P / F
42-48	↓	↓	↓	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 12/02/14
Test Pit No: 3-058
Excavator: 308
Weather: 250
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	0	Y		P / F
06-12						P / F
12-18	DARK BROWN SILTY CLAY			N		P / F
18-24	LIGHT BROWN SILTY SAND					P / F
24-30						P / F
30-36						P / F
36-42	LIGHT GREY SILTY SAND	M				P / F
42-48		W				P / F
48-54						P / F
54-60	MEDIUM SAND, COBBLES		40			P / F
60-66			60			P / F
66-72						P / F

Remarks: DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 12/03/14
Test Pit No: 3-0585
Excavator: 308
Weather: 20°
GW Depth: 6'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SILTY SOILS	D	Ø	Y/N		P / F
06-12	LIGHT BROWN SILTY CLAY					P / F
12-18						P / F
18-24	BROWN CLAY					P / F
24-30						P / F
30-36	TAN SILTY SAND					P / F
36-42						P / F
42-48	, ORANGE LENS					P / F
48-54						P / F
54-60	BROWN SILTY SAND					P / F
60-66		M				P / F
66-72		W				P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 12/02/14
Test Pit No: 3-058G
Excavator: 308
Weather: 32°
GW Depth: 74'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SILTY SOIL	D	Ø	N		P / F
06-12	LIGHT BROWN SILTY CLAY					P / F
12-18						P / F
18-24						P / F
24-30	BROWN CLAY					P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/26/14
Test Pit No: 3-059
Excavator: 308
Weather: 35°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SICS, ORANGE SILTY SAND	D	0	Y		P / F
06-12	TAN SILTY SAND					P / F
12-18						P / F
18-24				N		P / F
24-30	BROWN SILTY CLAY					P / F
30-36	GRAVELS, COBBLES, ORANGE LENS		60			P / F
36-42		M				P / F
42-48		W				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/26/14
Test Pit No: 3-060
Excavator: 308
Weather: 35°
GW Depth: >4', 5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, ORANGE SILTY CLAY	D	0	Y		P / F
06-12	GREY SILTY CLAY			N		P / F
12-18						P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42	GREY MEDIUM SAND					P / F
42-48	, ORANGE LENS					P / F
48-54	GRAVELS, COBBLES	M	40			P / F
54-60		W	60			P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/26/14
Test Pit No: 3-061
Excavator: 308
Weather: ~~4~~ 35°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	ORANGE SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18	GREY MEDIUM SAND			N		P / F
18-24	ORANGE SILTY CLAY					P / F
24-30	, GREY LENS					P / F
30-36	GRAVELS, COBBLES		60			P / F
36-42		M				P / F
42-48		W				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TY
Changed from Staked Position:

Date: 11/26/14
Test Pit No: 3-062
Excavator: 308
Weather: 35°
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SOIL	D	0	Y		P / F
06-12						P / F
12-18	GRAVELS, COBBLES		60	N		P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MD
Logged By: TYP
Changed from Staked Position:

Date: 12/10/14
Test Pit No: 3-063
Excavator: 308
Weather: 100
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND, SOILS	D	0	Y		P / F
06-12	BROWN SILTY SAND			N		P / F
12-18						P / F
18-24						P / F
24-30						P / F
30-36	GRAVELS, COBBLES	M	60			P / F
36-42		W				P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/10/14
Test Pit No: 3-064
Excavator: 308
Weather: 20°
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN, ORANGE SILTY SAND	O	Ø	Y		P / F
06-12						P / F
12-18	BLACK SILTY CLAY			N		P / F
18-24						P / F
24-30	BROWN CLAY	M				P / F
30-36	GRAVELY SAND	W	30			P / F
36-42	GRAVELS, COBBLES		60			P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks: DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TYP
Changed from Staked Position:

Date: 11/06/14
Test Pit No: 3-065
Excavator: 308
Weather: 50° SUNNY
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOIL, SILTY SAND, ORANGE	D	Ø	Y		P / F
06-12						P / F
12-18	ORANGE SILTY CLAY, GREY LENS					P / F
18-24	DARK BROWN SILTY CLAY			N		P / F
24-30						P / F
30-36						P / F
36-42	DARK BROWN CLAY	M				(P) / F
42-48	(COBBLES)	W	40			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TYP
Changed from Staked Position:

Date: 11/06/14
Test Pit No: 3-065W
Excavator: 308
Weather: 50° W INDY
GW Depth: >2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	~~SIL~~ TAN SILTY CLAY	D	0	~~N~~ Y		P / F
06-12	LIGHT BROWN SILTY CLAY	↓	↓	N		P / F
12-18	↓	↓	↓	↓		P / F
18-24	GREY SILTY CLAY	M	↓	↓		P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MO
Logged By: TYP
Changed from Staked Position:

Date: 12/02/14
Test Pit No: 3-066
Excavator: 308
Weather: 32°
GW Depth: 4"

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	0	X		P / F
06-12						P / F
12-18	GREY SILTY CLAY, ORANGE LENS			N		P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42	DARK BROWN CLAY	M				P / F
42-48	GRAVELS, COBBLES	W	60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 12/03/14
Test Pit No: 3-066E
Excavator: 308
Weather: 15°
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, ORANGE SILTY SAND	0	Ø	Y		P / F
06-12	DARK BROWN SILTY CLAY			N		P / F
12-18						P / F
18-24						P / F
24-30	LIGHT BROWN CLAY					P / F
30-36	COARSE SAND					P / F
36-42	COBBLES		40			P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 12/02/14
Test Pit No: 3-067
Excavator: 308
Weather: 20°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, SILTY SAND	D	0	Y		P / F
06-12	TAN MEDIUM SAND					P / F
12-18				N		P / F
18-24						P / F
24-30	DARK BROWN SILTY CLAY					P / F
30-36						P / F
36-42		M				P / F
42-48	GRAVELS, COBBLES	W	60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

TEST PIT EXCAVA...

...U, Reach A Phases 3 & 4

...Construction

Date: 11/26/19

Test Pit No: 3-068

Excavator: 308

Weather: 35°

GW Depth: 4'

...oto ID: MP

Logged By: TYP

Changed from Staked Position:

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	0	Y		P / F
06-12	BROWN SILTY CLAY			N		P / F
12-18						P / F
18-24	TAN SAND		60			P / F
24-30	GRAVEL, COBBLES	D				P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: SAMPLED TO 3' DUE TO COBBLES

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 12/01/14
Test Pit No: 3-069
Excavator: 308
Weather: 20°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	@ SOILS, TAN SILTY SAND	D	0	Y		P / F
06-12						P / F
12-18	, ORANGE SILTY SAND					P / F
18-24	GREY SILTY CLAY					P / F
24-30	@ BROWN CLAY			N		P / F
30-36						P / F
36-42		M				P / F
42-48		W				P / F
48-54	GRAVELS, COBBLES		60			P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 12/01/14
Test Pit No: 3-070
Excavator: 308
Weather: 20°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SILTY SOILS, [illegible]	D	0	Y		P / F
06-12	ORANGE SILTY SAND					P / F
12-18	BROWN SILTY SAND			N		P / F
18-24						P / F
24-30						P / F
30-36	ORANGE MEDIUM SAND					P / F
36-42		M				P / F
42-48		W				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 12/01/14
Test Pit No: 3-071
Excavator: 308
Weather: 15°
GW Depth: 3'2"

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	Ø	Y		P / F
06-12	DARK BROWN SILTY SOIL	↓	↓	↓		P / F
12-18	ORANGE SILTY SAND	↓	↓	↓		P / F
18-24	MEDIUM LIGHT BROWN SAND	↓	↓	N		P / F
24-30	↓	↓	↓	↓		P / F
30-36	↓	M	↓	↓		P / F
36-42	↓	W	↓	↓		P / F
42-48	↓	↓	↓	↓		P / F
48-54	↓	↓	↓	↓		P / F
54-60	↓	↓	↓	↓		P / F
60-66	↓	↓	↓	↓		P / F
66-72	↓	↓	↓	↓		P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 12/01/14
Test Pit No: 3-072
Excavator: 308
Weather: 10°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SILTY SOILS	D	Ø	Y		P / F
06-12	ORANGE SILTY SAND					P / F
12-18						P / F
18-24	GREY SILTY SAND			N		P / F
24-30	BROWN SILTY CLAY/SAND					P / F
30-36						P / F
36-42	GRAVELS, COBBLES	M	60			P / F
42-48		W				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TVP
Changed from Staked Position:

Date: 11/06/14
Test Pit No: ~~[illegible]~~3-072W
Excavator: 308
Weather: 50° SUNNY
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	0	Y		P / F
06-12	DARK BROWN SILTY CLAY			N		P / F
12-18						P / F
18-24						P / F
24-30	, COBBLES		40			P / F
30-36	GRAVELY SAND	M				P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TYP
Changed from Staked Position:

Date: 11/06/14
Test Pit No: 3-073
Excavator: 308
Weather: 11/06/14
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	LIGHT TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18	ORANGE SILTY CLAY, GREY LENS					P / F
18-24						P / F
24-30	DARK BROWN CLAY			N		P / F
30-36						P / F
36-42		M				P / F
42-48	SILTY CLAY, COBBLES	W	40			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 12/03/14
Test Pit No: 3-074
Excavator: 308
Weather: 150
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, ORANGE SILTY SAND	D	0	Y		P / F
06-12						P / F
12-18	GREY SILTY CLAY			N		P / F
18-24	DARK BROWN SILTY CLAY					P / F
24-30						P / F
30-36	TAN COARSE SAND					P / F
36-42	GRAVELS, COBBLES	M	60			P / F
42-48		W				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 12/03/14
Test Pit No: 3-074E
Excavator: 308
Weather: 200
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SILTY SOILS	D	Ø	N		P / F
06-12	LIGHT BROWN SILTY CLAY					P / F
12-18						P / F
18-24						P / F
24-30	DARK BROWN SILTY CLAY					P / F
30-36						P / F
36-42	BROWN CLAY					P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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THL11

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 12/02/14
Test Pit No: 3-075
Excavator: 308
Weather: 35°
GW Depth: 3½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	0	Y		P / F
06-12	ORANGE SILTY SAND					P / F
12-18						P / F
18-24						P / F
24-30	DARK BROWN CLAY			N		P / F
30-36		M				P / F
36-42		W				P / F
42-48	GRAVELS, COBBLES		60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: SLICKEN AREA, DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position: 20' EAST

Date: 12/01/14
Test Pit No: 3-076
Excavator: 308
Weather: 15°
GW Depth: 1'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, SILTY SAND	M	0	N		P / F
06-12		W				P / F
12-18	GRAVELS, COBBLES		40			P / F
18-24			60			P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: 0

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 12/10/14
Test Pit No: 3-077
Excavator: 308
Weather: 15°
GW Depth: 74'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, ORANGE SILTY SAND	0	0	Y		P / F
06-12						P / F
12-18						P / F
18-24	GREY SILTY CLAY			N		P / F
24-30	BROWN SILTY CLAY					P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54		0				P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 12/02/14
Test Pit No: 3-078
Excavator: 308
Weather: 20°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	0	Y		P / F
06-12	ORANGE SILTY SAND					P / F
12-18						P / F
18-24						P / F
24-30	GREY SILTY CLAY			N		P / F
30-36						P / F
36-42		M				P / F
42-48	GRAVELS, COBBLES	W	60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: SICKLER AREA

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 12/02/14
Test Pit No: 3-079
Excavator: 308
Weather: 15°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, ORANGE SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18	LIGHT BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36	DARK BROWN CLAY					P / F
36-42	, COBBLES	M	40			P / F
42-48	, GRAVELS	W	60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 12/01/14
Test Pit No: 3-080
Excavator: 308
Weather: 20°
GW Depth: 74"

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	0	Ø	Y		P / F
06-12						P / F
12-18	DARK BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 12/10/14
Test Pit No: 3-081
Excavator: 308
Weather: 15°
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, SILTY SAND	D	0	N		P / F
06-12						P / F
12-18						P / F
18-24						P / F
24-30						P / F
30-36	BROWNS SILTY CLAY					P / F
36-42	GRAVELS, COBBLES		60			P / F
42-48						0 / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: Scott Lambert
Changed from Staked Position: No

Date: 10/30/14
Test Pit No: 3-082
Excavator: Dave Kipp
Weather: Cloudy 43°F
GW Depth: 4.2 ft

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06		M	0	Y	Y	P / (F)
06-12	brown silt loam	M	0	Y	Y	P / (F)
12-18	yellowish brown silt	M	0	Y	Y	P / (F)
18-24	yellowish orange silty clay	M	0	Y	Y	P / (F)
24-30	sandy ~~silt~~ clay, dk brown / black	M	0	N	N	(P) / F
30-36	gravel black / grey	M	80	N	Y	P / (F)
36-42	silty gravel grey / black	M	40-50	N	N	(P) / F
42-48	gravel / rock	W	80-90	N	N	(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

18

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TP
Changed from Staked Position:

Date: 12/02/14
Test Pit No: 3-083
Excavator: 308
Weather: 30°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOIL, ORANGE SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18						P / F
18-24	DARK BROWN SILTY CLAY			N		P / F
24-30						P / F
30-36	COARSE SAND					P / F
36-42	GRAVELS, COBBLES	M	60			P / F
42-48		W				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MA
Logged By: TYP
Changed from Staked Position:

Date: 12/03/14
Test Pit No: 3-083E
Excavator: 308
Weather: 25°
GW Depth: 74'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SILTY SOILS	0	0	N		P / F
06-12						P / F
12-18	LIGHT BROWN SILTY CLAY					P / F
18-24						P / F
24-30	BROWN CLAY					P / F
30-36						P / F
36-42						P / F
42-48	BROWN SILTY SAND					P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 12/02/14
Test Pit No: 3-084
Excavator: 308
Weather: 35°
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	0	Y		P / F
06-12	ORANGE SILTY CLAY, SAND					P / F
12-18						P / F
18-24						P / F
24-30	DARK BROWN SILTY CLAY			N		P / F
30-36	TAN MEDIUM SAND					P / F
36-42	GRAVELS, COBBLES		60			P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: SLICKEN AREA

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 12/02/14
Test Pit No: 3-085
Excavator: 308
Weather: 35°
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	0	Y		P / F
06-12						P / F
12-18						P / F
18-24	ORANGE CLAY, GREY LENS					P / F
24-30		M		N		P / F
30-36		W				P / F
36-42	COARSE SAND					P / F
42-48	GRAVELS, COBBLES		60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: SLICKEN AREA, DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 12/02/14
Test Pit No: 3-086
Excavator: 308
Weather: 35°
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18	BROWN SILTY CLAY					P / F
18-24	GREY SILTY CLAY			N		P / F
24-30						P / F
30-36		M				P / F
36-42	GREY MEDIUM SAND	W				P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: SLICKEN AREA, DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 12/01/14
Test Pit No: [redacted] 3-087
Excavator: 308
Weather: 20°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, ORANGE SILTY SAND	D	0	Y		P / F
06-12						P / F
12-18						P / F
18-24	GREY SILTY CLAY			N		P / F
24-30						P / F
30-36						P / F
36-42	BROWN CLAY	M				P / F
42-48	TAN SAND	W				P / F
48-54			40			P / F
54-60	GRAVELS, COBBLES		60			P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 12/01/14
Test Pit No: 3088
Excavator: 308
Weather: 20°
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SILTY SOILS	D	0	N		P / F
06-12						P / F
12-18	BROWN SILTY SAND					P / F
18-24						P / F
24-30						P / F
30-36		M				P / F
36-42	GRAVELLY SAND	W				P / F
42-48						P / F
48-54			40			P / F
54-60	GRAVELS, COBBLES		60			P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: Scott Lambert
Changed from Staked Position: No

Date: 10/30/14
Test Pit No: 03-089
Excavator: Dave Kapp
Weather: Cloudy 43°F
GW Depth: 4.2 ft

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	fine sand yellow	D	0	~~N~~ Y	Y	P / F
06-12		M	0	N	Y	P / F
12-18		M	0	N	N	P / F
18-24	silt dk brown root traces	M	0	N	N	P / F
24-30	silt loam dk brown	M	0	N	Y	P / F
30-36		M	0	N	N	P / F
36-42	brown/orange silty sand	M	0	N	N	P / F
42-48	silt loam dk brown	M	0	N	N	P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: Scott Lambert
Changed from Staked Position: No

Date: 10/30/14
Test Pit No: 3-090
Excavator: Dave Kipp
Weather: Cloudy 53° F
GW Depth: 4.2 ft

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	roots	M	0	N	Y	P / (F)
06-12	roots	M	0	N	Y	P / (F)
12-18	roots	M	0	N	Y	P / (F)
18-24	roots	M	0	N	N	(P) / F
24-30	sandy silt yellowish brown	M	0	N	N	(P) / F
30-36		M	0	N	N	(P) / F
36-42		M	0	N	N	(P) / F
42-48	silt black / dk brown	M	0	N	N	(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: Scott Lambert
Changed from Staked Position: NO

Date: 10/30/14
Test Pit No: 3-091
Excavator: Dave Kirk
Weather: Cloudy 43 F
GW Depth: 4 ft

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	blackish brown orange mottles	M	0	Y	Y	P / (F)
06-12	clayey silt	M	0	Y	~	(P) / F
12-18	greyish white silty clay	M	0	Y	~	(P) / F
18-24		M	0	Y	~	(P) / F
24-30	blackish / brown silty clay	M	0	Y	~	(P) / F
30-36	brown / black clayey silt	M	0	Y	~	(P) / F
36-42	clayey sand greyish / blue	M	0	Y	~	(P) / F
42-48	clayey silt dk grey / black	W	0	N	N	(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 12/02/14
Test Pit No: 3-092
Excavator: 308
Weather: 35°
GW Depth: ~~4~~ 3½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, ORANGE SILTY SAND	D	0	Y		P / F
06-12						P / F
12-18						P / F
18-24	ORANGE SILTY CLAY			N		P / F
24-30						P / F
30-36	BLACK COARSE SAND	M				P / F
36-42	GRAVELS, COBBLES	W	60			P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TVP
Changed from Staked Position:

Date: 12/02/14
Test Pit No: 3-0926
Excavator: 308
Weather: 32°
GW Depth: 74'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SILTY SOILS	D	0	N		P / F
06-12	DARK BROWN SILTY CLAY					P / F
12-18						P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MV
Logged By: TW
Changed from Staked Position:

Date: 12/02/14
Test Pit No: 3-CP3
Excavator: 308
Weather: 35°
GW Depth: 3½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, ORANGE SILTY SAND	D	0	Y		P / F
06-12						P / F
12-18	DARK BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36		M				P / F
36-42	BLACK SILTY SAND	W				P / F
42-48						P / F
48-54						P / F
54-60	GRAVELS, COBBLES		60			P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TVP
Changed from Staked Position:

Date: 12/02/14
Test Pit No: 3-094
Excavator: 308
Weather: 35°
GW Depth: 5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, SILTY SAND, TAN	D	0	Y		P / F
06-12						P / F
12-18						P / F
18-24	DARK BROWN SILTY CLAY			N		P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54		M				P / F
54-60		W				P / F
60-66	COARSE GRAVEL		20			P / F
66-72	GRAVEL, COBBLES		40-60			P / F

Remarks: DEWATERED

Page ___ of ___

8:13am

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: Scott Lambert
Changed from Staked Position: No

Date: 10/31/14
Test Pit No: 3-095
Excavator: David Kipp
Weather: Scattered Cloud 38°F
GW Depth: 4 ft

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	silty sand (fine) roots	M	–	Y	N	P / F
06-12		M	–	N	Y	P / F
12-18	sand brown	M	–	N	Y	P / F
18-24	sand brown/orange	M	–	N	Y	P / F
24-30	silt loam brown	M	–	N	Y	P / F
30-36		M	–	N	N	P / F
36-42	sandy silt brown	M	5%	N	Y	P / F
42-48	sandy gravel brown/orange	W	20%	N	N	P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: Scott Lambert
Changed from Staked Position:

Date: 10/30/14
Test Pit No: 3-096
Excavator: Dave Kipp
Weather: Scattered cloud 50F
GW Depth: 5 Ft

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	brown silt black organic type soil	D	0	Y	Y	P/F
06-12		D	0	N	Y	P/F
12-18	orange silt	D	0	N	Y	P/F
18-24					Y	P/F
24-30	yellowish brown silty sand interladen roots (large)	M	0	N	Y	P/F
30-36		M	0	N	Y	P/F
36-42	silt loam dark brown	M	0	N	N	P/F
42-48	yellow/brown sandy silt	M	0	N	N	P/F
48-54	Grey sand. /rock	W	60-70	N	N	P/F
54-60						P/F
60-66						P/F
66-72						P/F

Remarks:

Page 1 of 1

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: Scott Lambert
Changed from Staked Position: No

Date: 10/30/14
Test Pit No: 3-097
Excavator: Dave Kipp
Weather: Cloudy 43 F
GW Depth: 4 ft

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06		D	0	Y	Y	P / (F)
06-12	yellowish brown silt roots	D	0	~~N~~ Y	Y	P / (F)
12-18	brown silt	M	0	N Y	Y	P / (F)
18-24	silt yellowish brown large roots	M	0	N	Y	P / (F)
24-30	silt dk brown partial sand yellow	M	0	N	N	(P) / F
30-36					N	(P) / F
36-42	sandy silt dk brown	M	0	N	N	(P) / F
42-48	sand grey / dk brown	W	0	N	N	(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: Scott Lambert
Changed from Staked Position: No

Date: 10/30/14
Test Pit No: 0-098
Excavator: Dave Kipp
Weather: Hazy 52°F
GW Depth: 3.9 ft

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	silt clay yellowish orange	D	0	Y	Y	P / F
06-12	yellowish brown silty clay	M	0	Y	Y	P / F
12-18	sandy silt	M	0	N	N	P / F
18-24	sandy silt black/dk brown	M	0	N	N	P / F
24-30		M	0	N	N	P / F
30-36		M	0	N	N	P / F
36-42	silt black/dk brown	W	0	N	N	P / F
42-48	gravel sand grey	W	0	N	N	P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page 1 of 1

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TYP
Changed from Staked Position:

Date: 11/06/14
Test Pit No: 3-099
Excavator: 308
Weather: 48° WINDY
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, ORANGE SILTY SAND	D	0	Y		P / F
06-12						P / F
12-18	GREY SILTY SAND LENS					P / F
18-24	LIGHT BROWN SILTY CLAY LENS			N		P / F
24-30						P / F
30-36		M				P / F
36-42	DARK BROWN CLAY	W				P / F
42-48	COBBLES		40			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: WEAK SULFUR SMELL
DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TWP
Changed from Staked Position:

Date: 11/06/14
Test Pit No: 3-099S
Excavator: 308
Weather: 48° WINDY
GW Depth: 2 1/2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	ORANGE SILTY SAND	D	0	Y		P / F
06-12	DARK BROWN SILTY CLAY	↓	↓	N		P / F
12-18	LIGHT ~~BROWN~~ GREY CLAY	↓	↓	↓		P / F
18-24	↓ COBBLES	↓	40	↓		(P) / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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10:30
to 10:50

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: Scott Lambert
Changed from Staked Position: No

Date: 10/31/14
Test Pit No: 3-100
Excavator: Dave Kipp
Weather: scattered cloud 39°F
GW Depth: 3.9 ft

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	light brown / orange microfine roots	M	0	y	y	P / F
06-12		M	0	y	y	P / F
12-18	grey (light) silty clay orange (come)	M	0	y	y	P / F
18-24		M	0	N	N	P / F
24-30		M	0	N	N	P / F
30-36	silt loam black	M	0	N	N	P / F
36-42	Sandy silt (fine) grey / dk grey	M	0	N	N	P / F
42-48	silty sand (fine) grey / dk grey	W	0	N	N	P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 12/02/14
Test Pit No: 3-101
Excavator: 308
Weather: 35°
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	0	0	Y		P / F
06-12	ORANGE SILTY SAND					P / F
12-18						P / F
18-24	DARK BROWN SILTY CLAY			N		P / F
24-30						P / F
30-36	LIGHT BROWN CLAY					P / F
36-42						P / F
42-48	COARSE SAND					P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 12/03/14
Test Pit No: 3-101E
Excavator: 308
Weather: 25°
GW Depth: >2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BLACK SILTY SOIL	D	0	N		P / F
06-12	LIGHT BROWN SILTY CLAY	↓	↓	↓		P / F
12-18	↓	↓	↓	↓		P / F
18-24	↓	↓	↓	↓		P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 12/02/19
Test Pit No: 3-102
Excavator: 308
Weather: 35
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18	ORANGE SILTY SAND					P / F
18-24	BROWN CLAY			N		P / F
24-30						P / F
30-36						P / F
36-42	COARSE SAND	D				P / F
42-48		M				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 12/02/14
Test Pit No: 3-103
Excavator: 308
Weather: 35
GW Depth: 4

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SILTY SOILS	D	Ø	Y		P / F
06-12	ORANGE SILTY SAND					P / F
12-18						P / F
18-24						P / F
24-30	DARK BROWN SILTY CLAY			N		P / F
30-36						P / F
36-42	GRAVELS, COBBLES	M	60			P / F
42-48		W				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: Scott Lambert
Changed from Staked Position: No

Date: 10/31/14
Test Pit No: 3-104
Excavator: Dave Kupp
Weather: scattered cloud 38°F
GW Depth: 3.8ft

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	sandy silt dk brown	M	—	N	Y	P / F
06-12	sandy silt brown / dk brown microfine roots	M	—	N	Y	P / F
12-18	silty sand brown microfine roots	M	—	N	Y	P / F
18-24		M	—	N	Y	P / F
24-30	sand (coarse) brown	M	—	N	N	P / F
30-36		M	—	N	N	P / F
36-42	sand (moderate grain) brown	W	—	N	N	P / F
42-48		W	—	N	N	P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page 1 of 1

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/4/14
Test Pit No: 3-105
Excavator: DAVE KIPP
Weather: CLOUDY, 30°F
GW Depth: 1.5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	ORANGE / BROWN SILT.	M	—	Y		P / F
06-12	SILTY ORANGE SAND (BROWN)	M	—	N		P / F
12-18	SANDY ORANGE	M	—	N		P / F
18-24	↓	W	—	N		P / F
24-30	SANDY ORANGE w/ COBBLES (ALLUVIUM)	W	30 80 (M)	N		P / F
30-36	↓	W	30 80 (M)	N		P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/24/14
Test Pit No: 3-106
Excavator: 308
Weather: 32°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	Ø	N		P / F
06-12						P / F
12-18	DARK BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30	LIGHT BROWN CLAY					P / F
30-36						P / F
36-42	GRAVELS, COBBLES	M	60			P / F
42-48		W				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MN
Logged By: TYP
Changed from Staked Position:

Date: 11/24/14
Test Pit No: 3-107
Excavator: 308
Weather: 32°
GW Depth: 3½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	1 SOILS. TAN SILTY SAND	D	D	Y		P / F
06-12						P / F
12-18						P / F
18-24	LIGHT BROWN SILTY CLAY			N		P / F
24-30		M				P / F
30-36						P / F
36-42	MEDIUM SAND	W				P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TYP
Changed from Staked Position:

Date: 11/06/14
Test Pit No: 3-108
Excavator: 308
Weather: 50° CLOUDY
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	ORANGE SILTY SAND	~~M~~ D	0	Y		P / F
06-12						P / F
12-18	GREY SILTY CLAY LENS					P / F
18-24	DARK BROWN SILTY CLAY	~~M~~		N		P / F
24-30	LIGHT BROWN CLAY					P / F
30-36		~~M~~ M				P / F
36-42			✓			P / F
42-48	, COBBLES	~~M~~ W	40	✓		(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: ~~YES~~ WEAK SULFUR SMELL

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TYP
Changed from Staked Position:

Date: 11/06/14
Test Pit No: 3-108W
Excavator: 308
Weather: 50° CLOUDY
GW Depth: 2 1/2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, SILTY CLAY	D	0	N		P / F
06-12	LIGHT BROWN SILTY CLAY	↓	↓	↓		P / F
12-18	↓	↓	↓	↓		P / F
18-24	GRAVELY SAND, COBBLES, ORANGE TINT	M	40	↓		P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/24/14
Test Pit No: 3-109
Excavator: 308
Weather: 32
GW Depth: @ 3½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS. TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18	, GREY LENS					P / F
18-24	DARK BROWN SILTY CLAY			N		P / F
24-30						P / F
30-36		M				P / F
36-42	MEDIUM SAND	M				P / F
42-48		W				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/8/14
Test Pit No: 2-110
Excavator: DAVE KIAP
Weather: PC CLOUDY, ~35°F
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN / GRAY / ORANGE MOTTLED SILT	M	—	Y		P / F
06-12	↓	M	—	Y		P / F
12-18	↓	M	—	Y		P / F
18-24	BROWNISH-GRAY SANDY SILT	M	—	N		P / F
24-30	↓	M	—	N		P / F
30-36	↓	M	—	N		P / F
36-42	GRAY SAND	M	—	N		P / F
42-48	↓	W	—	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page 1 of 1

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12 / 8 / 14
Test Pit No: 2-110E
Excavator: DAVE KIPP
Weather: CLOUDY, 23 °F
GW Depth: NOT ENCOUNTERED

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	DARK BROWN SILT	M	—	N		P / F
06-12	BROWNISH-GRAY SILT CLAY	M	—	N		P / F
12-18	BROWNISH-GRAY SILT	M	—	N		(P) / F
18-24	BROWNISH-GRAY SILT WITH SAND SEAMS	M	—	N		(P) / F
24-30	REDDISH-BROWN SAND	M	—	N		P / F
30-36	↓	M	—	N		P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 12/03/14
Test Pit No: 3-111
Excavator: 308
Weather: 30°
GW Depth: 3½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	ORANGE SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18	GREY SILTY CLAY, TAN SILTY CLAY					P / F
18-24	BROWN SILTY CLAY			N		P / F
24-30						P / F
30-36		M				P / F
36-42	BROWN COARSE SAND, COBBLES	W	60			P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: SLICKEN AREA

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TMP
Changed from Staked Position:

Date: 12/03/14
Test Pit No: 3-112
Excavator: 308
Weather: 35°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	40	Y		P / F
06-12						P / F
12-18	BLACK SILTY CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36	COARSE SAND					P / F
36-42		M				P / F
42-48	COBBLES	W	60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/4/14
Test Pit No: 3-113
Excavator: DAVE BLIPP
Weather: CLOUDY, 35°F
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	ORANGE / GRAY SILT	M	—	Y		P / F
06-12	↓	M	—	Y		P / F
12-18	↓	M	—	Y		P / F
18-24	BROWNISH GRAY SAND	M	—	N		P / F
24-30	GRAY SANDY SILT	M	—	N		P / F
30-36	↓	W	—	N		P / F
36-42	GRAY GRAVELLY SILT	W	—	N		P / F
42-48	BROWN SANDY GRAVEL	W	—	N		P / F
48-54	↓	W	—	N		P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: ALLUVIUM @ 44.5' BGS

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8:55 am

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: Scott Lambert
Changed from Staked Position: No

Date: 10/31/14
Test Pit No: 3-114
Excavator: Dave Knapp
Weather: scattered clouds 42°F
GW Depth: 4.2 Ft

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06		D	0	N	Y	P/F
06-12		D	0	N	Y	P/F
12-18	orange/brown fine sand roots	D	0	N	Y	P/F
18-24	clayey silt trace roots dk brown/brown	M	0	N	Y	P/F
24-30	clayey silt black	M	0	N	N	P/F
30-36		M	0	N	N	P/F
36-42	silty loam dk brown/black	M	0	N	N	P/F
42-48	sandy gravel greyish black	W	0	N	N	P/F
48-54						P/F
54-60						P/F
60-66						P/F
66-72						P/F

Remarks:

Page 1 of 1

9:10am
to 9:25

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: Scott Lambert
Changed from Staked Position: N

Date: ~~3~~ 10/31/14
Test Pit No: 3-115
Excavator: Dave Kipp
Weather: scattered cloud 35°F
GW Depth: 4.2 Ft

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	silt loam yellowish orange roots	D	0	y	Y	P / F
06-12	silt loam brown and yellow large roots	M	0	y	Y	P / F
12-18		M	0	N	N	P / F
18-24	silt loam dk brown trace roots	M	0	N	N	P / F
24-30		M	0	N	N	P / F
30-36		M	0	N	N	P / F
36-42	silty sand dk grey / dk brown	M	0%	N	N	P / F
42-48	sandy gravel dk grey	W	0%	N	N	P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

9.55am

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: Scott Lenbert
Changed from Staked Position: 2 Ft east

Date: 10/31/14
Test Pit No: 3-116
Excavator: Dave Kipp
Weather: scattered cloud
GW Depth: 3.9 Ft

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	clayey silt orange / light brown	M	0	~~N~~ Y	Y	P / F
06-12		M	0	~~N~~ Y	Y	P / F
12-18	silt sand yellowish orange	M	0	~~N~~ Y	Y	P / F
18-24		M	0	N	Y	P / F
24-30	silt loam dk brown orange mottles	M	0	N	N	P / F
30-36	clayey silt black / dk brown	M	0	N	N	P / F
36-42	clayey silt black / dk brown	M	0	N	N	P / F
42-48	sandy gravel grey w/ dk brown	W	30%	N	Y	P / F
48-54	rock and gravel grey	W	80%	N	N	P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page 1 of 1

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TJP
Changed from Staked Position:

Date: 11/06/14
Test Pit No: 3-117
Excavator: 308
Weather: 60° CLOUDY
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, ORANGE SILTY SAND	D	0	Y		P / F
06-12	, GREY LENS					P / F
12-18	DARK BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30		M				P / F
30-36	LIGHT BROWN CLAY	W				P / F
36-42	, COBBLES		40			P / F
42-48	GRAVELS, COBBLES		60			(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED, STRONG SULFUR ODER

Page ___ of ___

2' - ~~IIII~~ III
4' - ~~IIII~~ ~~IIII~~
3' - II

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TYP
Changed from Staked Position:

Date: 11/06/14
Test Pit No: 3-117 W
Excavator: 308
Weather: 50° ~~[illegible]~~ CLOUDY
GW Depth: 2 1/2

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	0	Y		P / F
06-12	LIGHT BROWN CLAY			N		P / F
12-18						P / F
18-24	LIGHT BROWN SILTY ~~SAND~~ CLAY, COBBLES		30			P / F
24-30	DARK BROWN SILTY CLA~~SAND~~, COBBLES	M	40			P / F
30-36	GRAVELS + COBBLES	W	60			P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

1:05 pm to 1:29 pm

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: Scott Lambert
Changed from Staked Position: No

Date: 10/31/14
Test Pit No: 3-118
Excavator: Dave Kipp
Weather: Scattered cloud, wind, 45°F
GW Depth: 4 ft

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	silty sand (fine) orangey yellow	M	0	Y	Y	P / F
06-12		M	0	Y	Y	P / F
12-18	greyish brown clayey silty ~~cla~~	M	0	Y	N	P / F
18-24	black silt loam	M	0	N	N	P / F
24-30		M	0	N	Y	P / F
30-36		M	0	N	N	P / F
36-42		W	0	N	N	P / F
42-48	gravelly sand black	W	60%	N	N	P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/4 /14
Test Pit No: 3-119
Excavator: DAVE KIPP
Weather: CLOUDY, ~25°F
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	REDDISH BROWN SILT	M	—	Y		P / F
06-12	BROWN TO GRAY SILT	M	—	N		P / F
12-18		M	—	N		P / F
18-24		M	—	N		P / F
24-30		W	—	N		P / F
30-36		W	—	N		P / F
36-42	SAND, GRAY, TRACE SILT	W	—	N		P / F
42-48		W	—	N		P / F
48-54		W	—	N		P / F
54-60	ALLUVIUM, SANDY GRAVEL.	W	30% (LM)	N		P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETRAS
Changed from Staked Position:

Date: 12/4/14
Test Pit No: 3-120
Excavator: DAVE KEPP
Weather: CLOUDY ~30°F
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	LIGHT BROWN TO ORANGE SILT, ROOTS.	M	—	Y		P / F
06-12	↓	M	—	Y		P / F
12-18	GRAY SILT, TRACE CLAY	M	—	N		P / F
18-24	↓	M	—	N		P / F
24-30	↓	M	—	N		P / F
30-36	SANDY LITTLE SILT	M	—	N		P / F
36-42		M	—	N		P / F
42-48		W	—	N		P / F
48-54		W	—	N		P / F
54-60	ALLUVIUM ~ 5' BGS	W	20% (M)	N		P / F
60-66	~~ALLUVIUM~~					P / F
66-72						P / F

Remarks:

Page 1 of 1

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: ~~3-121~~ 12/4/14
Test Pit No: 3-121
Excavator: DAVE HEIPA
Weather: LT RAIN, ~35°F
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN TO ORANGE SILT	M	—	Y		P / F
06-12	↓	M	—	Y		P / F
12-18	GRAY SANDY SILT, SOME RED-BROWN MOTTLING	M	—	N		P / F
18-24	↓	M	—	N		P / F
24-30	↓	W	—	N		P / F
30-36	↓	W	—	N		P / F
36-42	↓	W	—	N		P / F
42-48	GRAVELLY SAND	W	80%	N		P / F
48-54	↓	W	~~80~~ 30%			P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/9/14
Test Pit No: 3-122
Excavator: DAVE HOPP
Weather: CLOUDY, ~35°F
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	ORANGE/BROWN SILT	M	—	Y		P / F
06-12		M	—	Y		P / F
12-18		M	—	Y		P / F
18-24	BROWNISH-GRAY SANDY SILT	M	—	N		P / F
24-30		M	—	N		P / F
30-36		W	—	N		P / F
36-42	GRAY SILT	W	—	N		P / F
42-48		W	—	N		P / F
48-54		W	—	N		P / F
54-60	BROWN SANDY GRAVEL (ALLUVIUM)	W	~~TR~~ 60(%)	N		P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: Scott Lambert
Changed from Staked Position:

Date: 10/31/14
Test Pit No: 3-123
Excavator: Dave Lipp
Weather: Scattered cloud, windy 40°F
GW Depth: 3.9 Ft

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	silt light brown/orangish	D	0	Y	Y	P / F
06-12	sandy silt (fine) orange	D	0	Y	Y	P / F
12-18	clayey silt greyish brown	M	0	Y	Y	P / F
18-24	silt dk brown/black	M	0	N	Y	P / F
24-30		M	0	N	N	P / F
30-36	fine sand dk brown	M	0	N	N	P / F
36-42		M	0	N	N	P / F
42-48	silty sand (fine (black)	W	0	N	N	P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/21/14
Test Pit No: ~~[illegible]~~ 3-124
Excavator: 308
Weather: ~30°
GW Depth: 4 1/2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	0	0	Y		P / F
06-12						P / F
12-18	LIGHT BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36	DARK BROWN CLAY					P / F
36-42	SILTY SAND					P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

1:40 – 2pm

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: Scott Lambert
Changed from Staked Position: No

Date: 10/31/14
Test Pit No: 3-125
Excavator: Dave Kipp
Weather: Scattered cloud, windy, 45°F
GW Depth: 3.8 ft

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	silty sand orangey brown ~~do~~ roots	M	0	Y	Y	P / (F)
06-12		M	0	Y	Y	P / (F)
12-18	grey/brown clayey silt denser roots	M	0	Y	~~Y~~	P / (F)
18-24	silt black dense roots	M	0	N	~~Y~~	P / (F)
24-30	silt black	M	0	N	N	(P) / F
30-36		M	0	N	N	(P) / F
36-42	Gravelly sand black	W	20%	N	N	(P) / F
42-48		W	50%	N	N	(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TYP
Changed from Staked Position:

Date: 11/06/14
Test Pit No: 3-126
Excavator: 308
Weather: 48° CLOUDY
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, ORANGE SILTY SAND	D	Ø	Y		P / F
06-12	ORANGE SILTY SAND	↓	↓	↓		P / F
12-18	DARK BROWN SILTY CLAY	↓	↓	N		P / F
18-24	LIGHT BROWN CLAY, COBBLES	↓	↓	↓		P / F
24-30	↓	M	↓	↓		P / F
30-36	↓	W	30	↓		P / F
36-42	GRAVELY SAND	↓	40	↓		P / F
42-48	GRAVELS AND COBBLES	↓	60	↓		(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TYP
Changed from Staked Position:

Date: 11/06/14
Test Pit No: 3-126W
Excavator: 308
Weather: 50° CLOUDY
GW Depth: 2½

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	DARK BROWN SILTY SOIL	D	0	N		P / F
06-12	LIGHT BROWN SILTY CLAY					P / F
12-18						P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TYP
Changed from Staked Position: 38' DUE NORTH

Date: 11/06/14
Test Pit No: 3-127
Excavator: 308
Weather: 50° CLOUDY
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	ORANGE SILTY SAND	Y	Ø	Y		P / F
06-12						P / F
12-18	DARK BROWN SILTY CLAY	N		Y		P / F
18-24	LIGHT BROWN CLAY			N		P / F
24-30						P / F
30-36	LIGHT BROWN CLAY, COBBLES		30			P / F
36-42	GRAVELS, COBBLES		40			P / F
42-48			60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DE WATERED

Page ___ of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/4/14
Test Pit No: 3-128
Excavator: DAVE MIPP
Weather:
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	LIGHT BROWN SILT	M	—	~~N~~ Y		P / F
06-12	BROWNISH-GRAY SILT	M	—	N		P / F
12-18		M	—	N		P / F
18-24		M	—	N		P / F
24-30		M	—	N		P / F
30-36	GRAY SILTY SAND	M	—	N		P / F
36-42	DARK GRAY CLAY	M	—	N		(P) / F
42-48		~~M~~	—	N		(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/4/14
Test Pit No: 3-129
Excavator: DAVE KIDD
Weather: CLOUDY, ~30°F
GW Depth: 2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	ORANGE TO BROWNISH	M	—	Y		P / F
06-12	↓	M	—	Y		P / F
12-18	GRAY SILTY SAND	M	—	N		P / F
18-24	↓	M	—	N		P / F
24-30	SANDY ORANGE TO GRAY	W	—	N		P / F
30-36	↓	W	—	N		P / F
36-42	~~SANDY GRAY~~ GRAVELLY SAND	W	30%	N		P / F
42-48	↓	W	30(%)	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/4/14
Test Pit No: 3-130
Excavator: DAVE MOOR
Weather: CLOUDY, ~30°F
GW Depth: 2.5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	MOOTSH BROWN SILT	M	—	Y		P / F
06-12	~~[illegible]~~ GRAY SANDY SILT	M	—	Y		P / F
12-18	↓	M	—	N		P / F
18-24	↓	M	—	N		P / F
24-30	↓	M	—	N		P / F
30-36	BROWN SAND / TRACE SILT AINING	W	—	N		P / F
36-42	↓	W	—	N		P / F
42-48	↓	W	—	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TYP
Changed from Staked Position: 61' DUE WEST

Date: 11/06/14
Test Pit No: 3-131
Excavator: 308
Weather: 50° CLOUDY
GW Depth: 3 1/2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	ORANGE SILTY SAND	D	0	Y		P / F
06-12						P / F
12-18	DARK BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36	MEDIUM SILTY SAND	M				P / F
36-42		W	40			~~P~~ / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TYP
Changed from Staked Position:

Date: 11/06/14
Test Pit No: 3-13/W
Excavator: 308
Weather: 48° WINDY
GW Depth: 2½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	LIGHT BROWN SILTY SAND SOILS	D	0	N		P / F
06-12	DARK BROWN SILTY CLAY	↓	↓	↓		P / F
12-18	GREY SILTY CLAY	↓	↓	↓		P / F
18-24	↓	M	↓	↓		P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

12:30pm
to 12:45pm

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: Scott Lambert
Changed from Staked Position: No

Date: 10/31/14
Test Pit No: 3-132
Excavator: Dave Rigg
Weather: Fine wt wind 45°F
GW Depth: 3.9 ft

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06		D	0	N	Y	P / F
06-12	silt loam brown	D	0	N	Y	P / F
12-18	root dispersed throughout profile	M	0	N	Y	P / F
18-24		M	0	N	Y	P / F
24-30	silt loam orangey brown roots	M	0	N	Y	P / F
30-36	sandy silt (fine) orangey brown roots	M	0	N	Y	P / F
36-42	coarse sand orange roots	W	0	N	Y	P / F
42-48	silt black roots	W	10%	N	Y	P / F
48-54	gravel black	W	60%	N	N	P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

11:20 am

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: Scott Lambert
Changed from Staked Position: No

Date: 10/31/14
Test Pit No: 3-133
Excavator: Dave Kipp
Weather: scattered cloud, windy
GW Depth: 4.2 ft

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06		D	0	y	N	(P) / F
06-12	sand (fine) orange / light brown	D	0	y	N	(P) / F
12-18		D	0	y	Y	P / (F)
18-24	silty sand (fine) light brown	D	0	y	Y	P / (F)
24-30	silt dark brown	M	0	N	Y	P / (F)
30-36	silt dk brown / black	M	0	N	Y	P / (F)
36-42	sandy silt dk brown / brown	M	0	N	N	(P) / F
42-48		W	10%	N	Y	P / (F)
48-54	sandy gravel brownish orange	W	10%	N	N	(P) / F
54-60	gravel light brown / orange	W	30%	N	N	(P) / F
60-66						P / F
66-72						P / F

Remarks:

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14.30

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: Scott Lambert
Changed from Staked Position: No

Date: 10/31/14
Test Pit No: 3-134
Excavator: Dave Kipp
Weather: scattered cloud, wind, 48° F
GW Depth: 4.1 Ft

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	sand (fine) orange/yellow	D	—	Y	Y	P/F
06-12	silty clay orange	M	—	Y	Y	P/F
12-18		M	—	N	Y	P/F
18-24		M	—	N	N	P/F
24-30	clayey silt dk brown orange mottles	M	—	N	N	P/F
30-36	sandy silt dk brown	M	—	N	N	P/F
36-42	coarse sand dk grey	W	20%	N	N	P/F
42-48	gravelly sand dk grey	W	50%	N	N	P/F
48-54						P/F
54-60						P/F
60-66						P/F
66-72						P/F

Remarks:

Page 1 of 1

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/5/14
Test Pit No: 3-135
Excavator: DAVE VALPP
Weather: MOSTLY CLOUDY, ~35°F
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	LIGHT BROWN SILT	M	–	Y		P / F
06-12		M	–	Y		P / F
12-18	GRAY SILT	M	–	N		P / F
18-24		M	–	N		P / F
24-30	GRAY SILTY CLAY	M	–	N		P / F
30-36	GRAY SILTY SAND	M	–	N		P / F
36-42		M	–	N		P / F
42-48	GRAY SAND	M	–	N		P / F
48-54	~~GRAVELLY SAND (ALLUV~~ (MO) BROWN SANDY GRAVEL (ALLUVIUM)	W	~~10~~ 60(M)	N		P / F
54-60		W	~~10~~ 60(M)	N		P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: ~~3-136~~ 12/8/14
Test Pit No: 2-136
Excavator: DAVE KIPP
Weather: CLOUDY, 35°F
GW Depth: 4.5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN/ORANGE SILTY SAND	M	—	Y		P / F
06-12		M	—	Y		P / F
12-18	MOSTLY ORGANICS/PEAT WITH SILT	M	—	N		P / F
18-24	GRAY SILT W/ MOTTLING	M	—	N		P / F
24-30	GRAY SILTY CLAY	M	—	N		P / F
30-36		M	—	N		P / F
36-42		M	—	N		P / F
42-48		W	—	N		P / F
48-54		W	—	N		P / F
54-60				N		P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MANN PETRI
Changed from Staked Position:

Date: 12/8/14
Test Pit No: 3-1365
Excavator: DAVE RIPP
Weather: P. CLOUDY 35°F
GW Depth: NOT ENCOUNTERED

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	DARK GRAY SILT	M	—	N		P / F
06-12	↓	M	—	N		P / F
12-18	MODERATE BROWN SILTY CLAY, WITH LENSES	M	—	N		P / F
18-24	↓	M	—	N		P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/8/14
Test Pit No: 3-136 S/E
Excavator: DAVE KIPP
Weather: P. CLOUDY, ~35°F
GW Depth: NOT ENCOUNTERED

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN SILT	M	—	N		P / F
06-12	↓	M	—	N		P / F
12-18	↓	M	—	N		P / F
18-24	LIGHT BROWN SILT	M	—	N		P / F
24-30	BROWN SILT	M	—	N		(P) / F
30-36	BROWN SILTY SAND	M	—	N		(P) / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: Mann Peters
Changed from Staked Position:

Date: 12/8/14
Test Pit No: 3-13652
Excavator: Dave Kiop
Weather: P. cloudy, ≈35°F
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	Brown silt	M	—	N		P / F
06-12		M	—	N		P / F
12-18	Gray clayey silt	M	—	N		P / F
18-24		M	—	N		P / F
24-30	Silty sand	M		N		P / F
30-36	~~Silty sand~~ B(mp)	~~M~~ W	—	N		P / F
36-42		~~W~~ (mp)	—	~~N~~		P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/5/14
Test Pit No: 3-137
Excavator: DAVE KIAP
Weather: MOSTLY CLOUDY, 2 35°F
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	LIGHT BROWN / ORANGE SANDY SILT	M	—	Y		P / F
06-12	↓	M	—	Y		P / F
12-18	GRAY SILT	M	—	N		P / F
18-24	GRAY SILTY CLAY	M	—	N		P / F
24-30	↓	M	—	N		P / F
30-36	↓	M	—	N		P / F
36-42	↓	M	—	N		P / F
42-48	GRAY SANDY CLAY	W	—	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/8/14
Test Pit No: 3-1375
Excavator: DAVE KEIPP
Weather: CLOUDY, ~30°F
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	YELLOW BROWN SILT	M	—	Y		P / F
06-12	DARK GRAY SILT	M	—	N		P / F
12-18		M	—	N		P / F
18-24		M	—	N		P / F
24-30	~~DARK~~ GRAY SILTY CLAY	M	—	N		P / F
30-36		M	—	N		P / F
36-42	GRAY SANDY SILT	W	—	N		P / F
42-48		W	—	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page 1 of 1

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/8/14
Test Pit No: 3-137S2
Excavator: DAVE KIPP
Weather: PARTLY CLOUDY, ~35°F
GW Depth: NOT ENCOUNTERED

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	GRAYISH BROWN SILT	M	—	N		P / F
06-12	↓	M	—	N		P / F
12-18	GRAY SILT Y CLAY	M	—	N		(P) / F
18-24	↓	M	—	N		(P) / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: Scott Lambert
Changed from Staked Position: No

Date: 10/31/14
Test Pit No: 3-138.
Excavator: Dave Kipp
Weather: scattered cloud, wind, 48°F
GW Depth: 4ft

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	Silty clay yellow	M	0	Y	Y	P / F
06-12	Silt loam brown	M	0	N	Y	P / F
12-18	light brown/yellow clayey silt	M	0	N	Y	P / F
18-24	Silt yellow dk brown mottles	M	0	N	Y	P / F
24-30		M	0	N	Y	P / F
30-36		M	0	N	Y	P / F
36-42	Silt loam dk brown	M	0	N	~	P / F
42-48	Silt black/dk brown	W	0	N	~	P / F
48-54	gravel / Rock					P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TYP
Changed from Staked Position:

Date: 11/05/14
Test Pit No: 3-138W
Excavator: 308
Weather: 45° CLOUDY
GW Depth: 3½

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN & ORANGE SILTY SAND	D	0	Y		P / F
06-12	DARK BROWN SILTY CLAY			N		P / F
12-18						P / F
18-24	LIGHT BROWN CLAY					P / F
24-30		M				P / F
30-36	GRAVELS & COBBLES	W	40			P / F
36-42			60			P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TWP
Changed from Staked Position:

Date: 11/06/14
Test Pit No: 3-138 W2
Excavator: 308
Weather: 45° CLOUDY
GW Depth: 2 1/2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	LIGHT BROWN SILTY SAND	D	Ø	N		P / F
06-12	DARK BROWN SILTY CLAY					P / F
12-18						P / F
18-24	LIGHT GREY CLAY	M				P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PEETINS
Changed from Staked Position:

Date: 12/4/14
Test Pit No: 3-139
Excavator: DAVE · KIRK
Weather:
GW Depth: 31

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	ORANGE / BROWN SILT	M	—	Y		P / F
06-12	↓	M	—	Y		P / F
12-18	BROWN SILT	M	—	Y		P / F
18-24	BROWN SILTY CLAY	M	—	N		P / F
24-30	↓	M	—	N		P / F
30-36	↓	M	—	N		P / F
36-42	BROWNISH-GRAY SILTY SAND	W	—	N		P / F
42-48	↓	W	—	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/4/14
Test Pit No: 3-140
Excavator: DAVE WOOD
Weather: RAIN, ~35°F
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN ORANGE SANDY SILT	M	—	Y		P / F
06-12		M	—	Y		P / F
12-18		M	—	Y		P / F
18-24	GRAY SILT	M	—	N		P / F
24-30		M	—	N		P / F
30-36	GRAY SILTY CLAY	W	—	N		P / F
36-42	GRAVELLY SAND, BROWN	W	— 30cm	N		P / F
42-48		W	— 30(mm)	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: ~~[illegible]~~
Logged By: MARK PETERS
Changed from Staked Position:

Date: ~~3-14~~ 12/4/14
Test Pit No: 3-141
Excavator: DAVE KIDD
Weather: CLOUDY, ~30°F
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	LT/BROWN/ORANGE SILTY SAND	M	—	Y		P / F
06-12		M	—	Y		P / F
12-18		M	—	Y		P / F
18-24		M	—	Y		P / F
24-30	GRAY CLAYEY SILT	M	—	N		P / F
30-36		W	—	N		P / F
36-42		W	—	N		P / F
42-48	BROWN SANDY GRAVEL (ALLUVIUM)	W	~~X~~ 60(mm)	N		P / F
48-54		W	~~X~~ 60(mm)			P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/4/14
Test Pit No: 3-142
Excavator: DAVE [illegible]
Weather: MCW, 30°F
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN TO ORANGE SANDY SILT	M	—	Y		P / F
06-12	↓	M	—	Y		P / F
12-18	↓	M	—	Y		P / F
18-24	↓	M	—	Y		P / F
24-30	↓	M	—	N		P / F
30-36	BROWN SANDY SILT	W	—	N		P / F
36-42	↓	W	—	N		P / F
42-48	BROWN SANDY ORANGE	W	—	N		P / F
48-54	ALLUVIUM @ 48'	W	~~10~~ 60(%)	N		P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page 1 of 1

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP-1
Logged By: KM - TJP
Changed from Staked Position:

Date: 11/3/2014
Test Pit No: 3-143
Excavator: 308
Weather: cloudy 45°F
GW Depth: 3½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	dark brown soil	D	Ø	Y		P / F
06-12	orange, silty sand.	D	Ø	Y		P / F
12-18	↓	D	Ø	Y		P / F
18-24	dark black clays -	D/M		N		P / F
24-30		M		N		P / F
30-36		M		N		P / F
36-42	↓	W		N		P / F
42-48	~~gravels~~, dark sandy gravels + cobbles	W	40-60°	N		P / F
48-54	(alluvium)	W.	40-60°			P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

6-4'
5-2'
2-3'

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TYP
Changed from Staked Position:

Date: 11/05/14
Test Pit No: 143-W
Excavator: 308
Weather: 95° CLOUDY
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOIL, ORANGE SILTY SAND	D	Ø	Y		P / F
06-12	LIGHT BROWN SILTY CLAY	↓	↓	N		P / F
12-18	↓	↓	↓	↓		P / F
18-24	↓	↓	↓	↓		P / F
24-30	LIGHT TAN SILTY CLAY, GREY LENS	M	↓	↓		P / F
30-36	DARK BROWN CLAY	W	↓	↓		P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TYP
Changed from Staked Position:

Date: 11/05/14
Test Pit No: ~~3-143L~~ 3-143 W2 (m)
Excavator: 308
Weather: 50° CALM
GW Depth: 2½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	Ø	Y		P / F
06-12				N		P / F
12-18	DARK BROWN SILTY CLAY					P / F
18-24	LIGHT BROWN CLAY	M				(P) / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: ~~TP~~ NP
Logged By: TYP
Changed from Staked Position:

Date: 11/05/14
Test Pit No: 3-143 W3
Excavator: 308
Weather: 50° CALM
GW Depth: 2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	~~A~~ TAN SILTY SAND, SOIL	D	Ø	Y		P / F
06-12	LIGHT BROWN SILTY CLAY	↓	↓	N		P / F
12-18	DARK BROWN ~~SILT~~ CLAY	M	↓	↓		P / F
18-24	↓	W	↓	↓		P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK [illegible]
Changed from Staked Position:

Date: 12/4/14
Test Pit No: 3-144
Excavator: DAVE KIPP
Weather: RAIN, ~35°F
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	LIGHT BROWN SILT/ ORANGE MOTTLING	M	—	Y		P / F
06-12		M	—	Y		P / F
12-18	BROWN SAND W/ DECOMPOSED WOOD	M	—	Y		P / F
18-24	BROWN SAND	M	—	Y		P / F
24-30	BROWN SILTY SAND W/ ORANGE MOTTLING	M	—	N		P / F
30-36	BROWN GRAVELLY SAND	W	30 cm	N		P / F
36-42	BROWN SANDY GRAVEL	W	~~0~~ 50 cm	N		P / F
42-48		N	~~10~~ 60 cm	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/8/14
Test Pit No: 3-145
Excavator: DAVE UIPP
Weather: P. CLOUDY
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN/ORANGE MOTTLED SILT	M	—	Y		P / F
06-12		M	—	Y		P / F
12-18	BROWN SILT	M	—	N		P / F
18-24	↓	M	—	N		P / F
24-30	GRAY SILTY CLAY	M	—	N		P / F
30-36	↓	M	—	N		P / F
36-42	BROWN SILTY GRAVEL	W	~~20~~ 70 (MP)	N		P / F
42-48	SANDY GRAVEL (ALLUVIUM)	W	~~20~~ 70 (MP)	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/8/14
Test Pit No: 3-145S
Excavator: DAVE WIPP
Weather: P. CLOUDY, ~35°F
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	LIGHT BROWN SILTY SAND	M	—	Y		P / F
06-12	BROWN/YELLOW/GRAY SILT LEAF LITTER 9-12"	M	—	Y		P / F
12-18		M	—	Y		P / F
18-24		M	—	Y		P / F
24-30	DARK GRAY SILTY CLAY	M	—	N		P / F
30-36	~~DAR~~	M	—	N		P / F
36-42		M	—	N		P / F
42-48	SILTY GRAVEL	W	— 40(mm)	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/8/14
Test Pit No: 3-145G
Excavator: DAVE KIPP
Weather: P. CLOUDY, ~35°F
GW Depth:

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN SILT	M	—	N		P / F
06-12	GRAY SILT	M	—	M		P / F
12-18	↓	M	—	M		P / F
18-24	↓	M	—	M		P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/9/14
Test Pit No: 3-145 S/E
Excavator: DAVE KIPP
Weather: P. CLOUDY
GW Depth: NOT ENCOUNTERED

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN/THICK ORANGE SILT	M	—	Y		P / F
06-12	DARK GRAY SILT	M	—	N		P / F
12-18	DARK/LIGHT GRAY MOTTLED SILT	M	—	N		P / F
18-24	↓	M	—	N		P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position: 10W (AS STAKED)

Date: 12/5/14
Test Pit No: 2-146
Excavator: DAVE HEAP
Weather: P CLOUDY, ~35°F
GW Depth: 3.5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	LIGHT BROWN / ORANGE SILT	M	—	Y		P / F
06-12	GRAY / BROWN MOTTLED SILT	M	—	N		P / F
12-18	↓	M	—	N		P / F
18-24	↓	M	—	N		P / F
24-30	GRAY / BROWN MOTTLED SANDY SILT	M	—	N		P / F
30-36	↓	M	—	N		P / F
36-42	↓	M	—	N		P / F
42-48	↓	W	—	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: ALLUVIUM (≥ 70% ROCK) ≈ 4.5' BGS.

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NO
Logged By: TYP
Changed from Staked Position:

Date: 11/13/14
Test Pit No: 3-147
Excavator: 308
Weather: 40° OVERCAST
GW Depth: 3 1/2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SILTY SOIL	D	Ø	N		P / F
06-12	SILTY SAND / CLAY	↓	↓	N		P / F
12-18	↓	↓	↓	Y		P / F
18-24	↓	↓	↓	↓		P / F
24-30	ORANGE MEDIUM SAND ~~WET~~ AND GRAVEL	M	40%	↓		P / F
30-36	↓	↓ W	↓	↓		P / F
36-42	↓ GREY SILTY SAND, GRAVEL	↓	↓ 60%	↓ N		P / F
42-48	AND COBBLES ↓	↓	↓	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TYP
Changed from Staked Position:

Date: 11/3/14
Test Pit No: 3-148
Excavator: 308
Weather: 50° SUNNY
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	ORANGE SILTY SAND GREY SILTY LENS	D	Ø	Y		P / F
06-12						P / F
12-18						P / F
18-24	SILTY CLAY			N		P / F
24-30						P / F
30-36						P / F
36-42		M				P / F
42-48		W				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TJP
Changed from Staked Position:

Date: 11/3/14
Test Pit No: 3-149
Excavator: 308
Weather: 50° SUNNY
GW Depth: 4'/2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	ORANGE SILTY SAND	O	Ø	Y		P / F
06-12				X		P / F
12-18	& SILTY CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36		M				P / F
36-42	MEDIUME SAND WITH ROCKS AND COBBLES	M	30%			P / F
42-48		W				P / F
48-54		W	50%			P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PORTMAN
Changed from Staked Position:

Date: 12/4/14
Test Pit No: 3-150
Excavator: DAVE KIPP
Weather: P. CLOUDY, -30°F
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	EARTH BROWN SILT	M	—	Y		P / F
06-12	ORANGE/BROWN SAND	M	—	Y		P / F
12-18	ORANGE/GRAY MOTTLED SILTY SAND	M	—	Y		P / F
18-24	ORA	M	—	Y		P / F
24-30	ORANGE/GRAY MOTTLED SILT	M	—	Y		P / F
30-36	GRAY SILTY CLAY	M	—	N		P / F
36-42		W	—	N		P / F
42-48	GRAY SAND	W	—	N		P / F
48-54	BROWN GRAVELLY SAND	W	30 (cm)	N		P / F
54-60		W	30 (cm)	N		P / F
60-66	SANDY GRAVEL W/ COBBLES	W	60 (cm)	N		P / F
66-72		W	70 (cm)	N		P / F

Remarks:

CDM Smith, Inc.

TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4

Contractor: Jordan Construction

Date: 12/4/14

Test Pit No: 3-151

Photo ID:

Excavator: DAVE MIAP

Logged By: MARK PETERS

Weather: RAIN, ~35°F

Changed from Staked Position:

GW Depth: 2.5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN/GRAVEL SILTY SAND	M	–	Y		P / F
06-12		M	–	Y		P / F
12-18	BROWN/GRAY SANDY SILT	M	–	Y		P / F
18-24		M	–	N		P / F
24-30		W	–	N		P / F
30-36		W	–	N		P / F
36-42		W	–	N		P / F
42-48	BROWN SANDY GRAVEL CALCULUM	W	~~10~~ 60(m)	N		P / F
48-54		W	~~10~~ 60(m)	N		P / F
54-60		–				P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: Scott Lambert
Changed from Staked Position: No

Date: 10/31/14
Test Pit No: 3-152
Excavator: Dave Kipp
Weather: scattered cloud, wind, 50°F
GW Depth: 4 ft

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	sand (fine) orange monofine roots	D	0	y	✓	P / F
06-12	sandy silt orangey brown	D	0	y	✓	P / F
12-18	sandy silt dk brown	M	0	N	✓	P / F
18-24	clayey silt dk brown	M	0	N	✓	P / F
24-30		M	0	N	✓	P / F
30-36	sandy clay brown	M	0	N	✓	P / F
36-42		M	0	N	✓	P / F
42-48	silty sand gray	W	0	N	✓	P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP-2
Logged By: KM - TYP
Changed from Staked Position: SE 15 Ft

Date: 11/3/14
Test Pit No: 3-153
Excavator: 308
Weather: 45° SUNNY
GW Depth: 3 1/2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	DARK BROWN SOIL	D	Ø	Y		P / F
06-12	ORANGE SILTY SAND	D	Ø	Y		P / F
12-18	GRAY CLAY LENS ≈1" DARK CLAY	D		N		P / F
18-24		D/M				P / F
24-30		M				P / F
30-36		W				P / F
36-42		W				P / F
42-48	DARK SANDY GRAVELS, GRAVELS	W	40-60%			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TYP
Changed from Staked Position:

Date: 11/05/14
Test Pit No: ~~[illegible]~~ 153 W
Excavator: 308
Weather: 45° CLOUDY
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOIL, TAN SILTY SAND	D	0	Y		P / F
06-12	DARK BROWN SILTY CLAY			N		P / F
12-18						P / F
18-24						P / F
24-30		M				P / F
30-36	LIGHT BROWN CLAY	W				(P) / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/5/14
Test Pit No: 3-153
Excavator: DAVE KEPP
Weather: MOSTLY CLOUDY, ~35°F
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	GRAY/ORANGE MOTTLED SILT	M	–	Y		P / F
06-12		M	–	Y		P / F
12-18	GRAY SANDY CLAY	M	–	N		P / F
18-24		M	–	N		P / F
24-30		M	–	N		P / F
30-36		M	–	N		P / F
36-42	GRAY SILT	M	–	N		P / F
42-48	GRAY SANDY SILT.	W ~~[illegible]~~ (m)	–	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: ALLUVIUM (≈ 70% ROCK) ≈ 5YR 3/4

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TYP
Changed from Staked Position:

Date: 11/3/14
Test Pit No: 3-156
Excavator: 308
Weather: 45° SUNNY
GW Depth: 2 1/2'

Depth (In)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	CLAY AND SOIL	D	Ø	N		P / F
06-12	SILTY SAND	M	↓	N		P / F
12-18	↓	M	↓	Y		P / F
18-24	GRAVEL WITH ORANGE SILTY SAND	W	40%	Y		P / F
24-30	GRAVELY SAND	↓	60%	N		P / F
30-36	GRAVELY SAND WITH COBBLES	↓	↓	N		(P) / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: TP ~~DEWAR~~ DEWATERED SAMPLED TO 36" DUE TO SLUFFING

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TYP
Changed from Staked Position:

Date: 11/4/14
Test Pit No: 3-157
Excavator: 308
Weather: 40° WINDY
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	LIGHT BROWN SILTY CLAY WITH ORANGE LENS	D	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	BLACK SILTY CLAY WITH ORANGE AND GREY LENS	↓	↓	↓		P / F
18-24	↓	↓	↓	↓		P / F
24-30	MEDIUM SAND WITH COBBLES AND ORANGE LENS	M	40%	↓		P / F
30-36	↓	↓	↓	N		P / F
36-42	GRAVEL AND COBBLES	W	60%	↓		(P) / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: SLICKEN AREA

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TYP
Changed from Staked Position:

Date: 11/3/14
Test Pit No: 3-158
Excavator: 308
Weather: 45° - SUNNY
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SILTY SOIL	O	Ø	N		P / F
06-12	SILTY SAND	↓	↓	↓		P / F
12-18	↓	↓				P / F
18-24	ORANG SILTY SAND	M		Y		P / F
24-30	↓ DARK CLAY WITH MEDIUM	↓		↓		P / F
30-36	SAND	↓		↓		P / F
36-42	↓	W	↓	N		P / F
42-48	SAND WITH GRAVEL & COBBLES	≠ W	60%	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: TP DEWATERED

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TYP
Changed from Staked Position:

Date: 11/3/14
Test Pit No: 3-159
Excavator: 308
Weather: 45°-SUNNY
GW Depth: 3½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	ORANGE SILTY SAND	D	Ø	Y		P / F
06-12		D		Y		P / F
12-18	DARK CLAY	M		N		P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42	ORANGE CLAY / GRAY CLAY & FINE SAND WITH COBBLES	W	30%			P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TYP
Changed from Staked Position:

Date: 11/3/14
Test Pit No: 3-160
Excavator: 380
Weather: 45°-SUNNY
GW Depth: > 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	LIGHT BROWN SILTY SAND	O	Ø	~~N~~ Y		P / F
06-12	ORANGE SILTY SAND			Y		P / F
12-18	DARO BROWN			N		P / F
18-24	DARK CLAY					P / F
24-30						P / F
30-36						P / F
36-42		M				P / F
42-48	GREY SAND	M				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP-3
Logged By: TYP- KM
Changed from Staked Position:

Date: 11/3/14
Test Pit No: 3-161
Excavator: 308
Weather: 45°- SUNNY
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN / ORANGE SANDY SOIL	D	Ø	Y		P / F
06-12	AF BROWN/ORANGE SILTY SAND	D		Y		P / F
12-18	SILTY CLAY	D		Y		P / F
18-24		M		N		P / F
24-30		M				P / F
30-36		W				P / F
36-42		W				P / F
42-48	GRAY MEDIUM SAND	W				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED TEST PIT

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TYP
Changed from Staked Position:

Date: 11/04/14
Test Pit No: 3-162
Excavator: 308
Weather: 40° CLOUDY
GW Depth: 3 1/2

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOIL, ORANGE SILTY SAND	D	Ø	Y		P / F
06-12	ORANGE SILTY SAND			Y		P / F
12-18	SILTY CLAY, GREY LENS			Y		P / F
18-24	CLAY			N		P / F
24-30						P / F
30-36		M				P / F
36-42		W				P / F
42-48	GRAVEL, COBBLES	W	40-60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TYP
Changed from Staked Position:

Date: 11/05/14
Test Pit No: 3-163
Excavator: 308
Weather: 45° WINDY
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	ORANGE SILTY SAND, SOILS	D	Ø	Y		P / F
06-12	LIGHT GREY SILTY CLAY			N		P / F
12-18	DARK GREY BROWN CLAY					P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42		M				P / F
42-48	GRAVELS & COBBLES	W	60			(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ____

6-4'
3-2'

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TYP
Changed from Staked Position:

Date: 11/05/14
Test Pit No: 3-163 W
Excavator: 308
Weather: 45° CLOUDY
GW Depth: 2 1/2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOIL, SILTY CLAY, SMALL ORANGE LENS	D	Ø	Y ~~N~~		P / F
06-12	SILTY CLAY	↓	↓	N ~~Y~~		P / F
12-18	↓	↓	↓	↓		P / F
18-24	↓	M	↓	↓		(P) / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TYP
Changed from Staked Position:

Date: 11/05/14
Test Pit No: 3-163-W2
Excavator: 308
Weather: 2' 45° CLOUDY
GW Depth: 2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOIL, ORANGE SILTY SAND	D	Ø	Y		P / F
06-12	DARK BROWN SILTY CLAY	D		N		P / F
12-18	LIGHT BROWN CLAY	M				P / F
18-24		W				(P) / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TYP
Changed from Staked Position:

Date: 11/05/14
Test Pit No: 3-163-43
Excavator: 308
Weather: 45° to CLOUDY
GW Depth: 2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	ORANGE SILTY SAND	D	Ø	Y		P / F
06-12	DARK BROWN SILTY CLAY	↓	↓	N		P / F
12-18	↓	M	↓	↓		P / F
18-24	LIGHT BROWN CLAY	W	↓	↓		(P) / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TJP
Changed from Staked Position:

Date: 11/3/14
Test Pit No: 3-164
Excavator: 308
Weather: 50° SUNNY
GW Depth: 5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	ORANGE SILTY SAND GREY SILTY LENS	O	Ø	Y		P / F
06-12						P / F
12-18	SILTY CLAY					P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42		M				P / F
42-48	GRAVEL AND COBBLES WITH ORANGE SILTY SAND	W	40%			P / F
48-54	GRAVELS AND COBBLES		60%	N		P / F
54-60						P / F
60-66						P / F
66-72						

Remarks: SLICKEN AREA
TP ~~Ø~~ DEWATERED

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CDM Smith, Inc.

TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: ~~2016~~ 12/8/14
Test Pit No: 3-165
Excavator: DAVE KIPP
Weather: SL. CLOUDY ↑ 35°F
GW Depth: 50"

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN SILT	M	—	~~N~~		P / F
06-12	YELLOW/ORANGE/BROWN MOTTLED SILT	M	—	Y		P / F
12-18	↓	M	—	Y		P / F
18-24	DARK GRAY SILT	M	—	N		P / F
24-30	BROWN SILT	M	—	N		P / F
30-36	BROWN/REDDISH BROWN SILTY SAND	M	—	N		P / F
36-42	↓	M	—	N		(P) / F
42-48	↓	M	—	N		(P) / F
48-54	↓	M	—	N		P / F
54-60	↓	W	—	N		P / F
60-66	↓	W	—	N		P / F
66-72						P / F

Remarks: SANDY GRAVEL @ BOTTOM (S.S) 50% ROCK

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/8/14
Test Pit No: 3-166
Excavator: DAVE KIPP
Weather: PILLOUDING 30°F
GW Depth: 31

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN/YELLOW MOTTLED SILT	M	—	Y		P / F
06-12	↓	M	—	Y		P / F
12-18	BROWNISH - GRAY SILT	M	—	N		P / F
18-24		M	—	N		P / F
24-30	GRAY SILTY CLAY	M	—	N		P / F
30-36	↓	M	—	N		P / F
36-42	GRAVELLY SAND	W	— 30 mm	N		P / F
42-48	SANDY GRAVEL	W	— 50 mm	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: SANDY GRAVEL ALLUVIUM (20% ROCKS) @ BOTTOM OF HOLE (4' BGS.

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: Mann Peters
Changed from Staked Position:

Date: 12/8/14
Test Pit No: 3-166S
Excavator: DANG UTPP
Weather:
GW Depth: NOT ENCOUNTERED

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	Brown Yellow/Orange Mottled Silt	M	—	Y		P / F
06-12	↓	M	—	Y		P / F
12-18	Gray Silt	M	—	N		P / F
18-24	↓	M	—	N		P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TJP
Changed from Staked Position:

Date: 11/3/14
Test Pit No: 3-167
Excavator: 308
Weather: 45° SUNNY
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN/ORANGE SANDY SOIL	O	Ø	Y		P / F
06-12	BROWN, SILTY SAND	O		Y		P / F
12-18	SILTY CLAY	D		N		P / F
18-24		M				P / F
24-30		W				P / F
30-36						P / F
36-42						P / F
42-48	SANDY GRAVEL		40-60%			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: TP DEWATERED

Page ___ **of** _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/8/14
Test Pit No: 3-168
Excavator: DAVE KIPP
Weather: CLOUDY, ≈30°F
GW Depth: 3.5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	YELLOW/BROWN/ORANGE MOTTLED SILT	M	—	Y		P / F
06-12		M	—	Y		P / F
12-18	GRAY SILT	M	—	N		P / F
18-24		M	—	N		P / F
24-30		M	—	N		P / F
30-36	GRAY SAND	M	—	N		P / F
36-42	BROWN SANDY GRAVEL (ALLUVIUM)	W	~~10~~ 60 (mm)	N		P / F
42-48		W	~~20~~ 70 mm	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/8/14
Test Pit No: 2-169
Excavator: DAVE HEPP
Weather: CLOUDY, ~25 °F
GW Depth: 5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN/YELLOW/GRAY MOTTLED SILT	M	—	Y		P / F
06-12	↓	M	—	Y		P / F
12-18	BROWN SILT	M	—	N		P / F
18-24	↓	M	—	N		P / F
24-30	DARK GRAY SILT	M	—	N		P / F
30-36	↓	M	—	N		P / F
36-42	↓	M	—	N		P / F
42-48	↓	M	—	N		P / F
48-54	GRAY SAND (m)	W	—	N		P / F
54-60	↓ GRAY SAND	W	—	N		P / F
60-66	↓	W	—	N		P / F
66-72						P / F

Remarks:

Page 1 of 1

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/5/14
Test Pit No: 3-170
Excavator: DAVE WEBB
Weather: P. CLOUDY, 35°F
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN/ORANGE SILT	M	—	Y		P / F
06-12	↓	M	—	Y		P / F
12-18	↓	M	—	Y		P / F
18-24	GRAY SILT	M	—	N		P / F
24-30	↓	M	—	N		P / F
30-36	↓	M	—	N		P / F
36-42	↓	M	—	N		P / F
42-48	GRAY ORANGELY SILT	W	— 30(m)	N		P / F
48-54	BROWN ORANGELY SAND	W	— 30(m)	N		P / F
54-60	↓	W	— 30(m)	N		P / F
60-66						P / F
66-72						P / F

Remarks: ALLUVIUM @ 5' BGS

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TYP
Changed from Staked Position:

Date: 11/3/14
Test Pit No: 3-171
Excavator: 308
Weather: 50° SUNNY
GW Depth: 4 1/2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	ORANGE SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18	DARK SILTY CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36		M				P / F
36-42						P / F
42-48						P / F
48-54		W				P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: GRAVEL AND ROCK AT 72"
TP DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TYP
Changed from Staked Position:

Date: 11/4/14
Test Pit No: 3-172
Excavator: 308
Weather: 40° WINDY
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SILTY SAND, YELLOW/ORANGE COLORING	D	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	LIGHT BROWN SILTY CLAY			↓		P / F
18-24	DARK SILTY CLAY			N		P / F
24-30	↓	↓	↓	↓		P / F
30-36	MEDIUM SAND MIXED WITH GRAVELS	M	40%			P / F
36-42	GRAVELS AND COBBLES	W	60%			P / F
42-48	↓	↓	↓	↓		(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: #

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TYP
Changed from Staked Position:

Date: 11/3/14
Test Pit No: 3-173
Excavator: 308
Weather: 40° WINDY
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	ORANGE SILTY SAND WITH SOILS	D	Ø	Y		P / F
06-12	BLACK SILTY CLAY			Y		P / F
12-18	LIGHT BROWN SILTY CLAY WITH ORANGE LENS			N		P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42		M				P / F
42-48		M				(P) F
48-54	GRAVEL AND COBBLES	W	~60%			P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TYP
Changed from Staked Position:

Date: 11/3/14
Test Pit No: 3-174
Excavator: 308
Weather: 40° SUNNY
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN SAND ~~(FINE~~ (FINE	D	Ø	Y		P / F
06-12	BROWN SILTY SAND LIGHT			Y		P / F
12-18	BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30		M				P / F
30-36		W				P / F
36-42	DARK BROWN MEDIUM SAND	W				P / F
42-48	DARK SANDY GRAVELS /COBBLES	W	40-60%			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: TP DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TYP
Changed from Staked Position:

Date: 11/04/14
Test Pit No: 3-175
Excavator: 308
Weather: 40° WINDY
GW Depth: 4 1/2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOIL, ORANGE SILTY SAND					P / F
06-12	ORANGE SILTY SAND					P / F
12-18	↓					P / F
18-24	~~CLAY~~ SILTY CLAY, GREY LENS					P / F
24-30	CLAY					P / F
30-36						P / F
36-42						P / F
42-48						(P) / F
48-54	↓					P / F
54-60	RT GRAVELS + COBBLES					P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED

Page ___ of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TYP
Changed from Staked Position:

Date: 11/04/14
Test Pit No: 3-176
Excavator: 308
Weather: 40° WINDY
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	ORANGE SILTY SAND, SOILS	D	Ø	Y		P / F
06-12						P / F
12-18	SILTY CLAY			N		P / F
18-24						P / F
24-30		M				P / F
30-36	CLAY	W				P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/8/14
Test Pit No: 2-177
Excavator: DAVE KEAP
Weather: CLOUDY, ~85°F
GW Depth: 465'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	YELLOW/BROWN/GRAY MOTTLED SILT	M	—	Y		P / F
06-12		M	—	Y		P / F
12-18		M	—	~~[illegible]~~ Y		P / F
18-24	BROWNISH-GRAY SILT	M	—	N		P / F
24-30		M	—	N		P / F
30-36		M	—	N		P / F
36-42		M	—	N		P / F
42-48		W	—	N		P / F
48-54	BROWN GRAVELLY SAND	W	— 30 cm	N		P / F
54-60		W	— 30 cm	N		P / F
60-66						P / F
66-72						P / F

Remarks: SANDY GRAVEL BOTTOM OF HOLE ~5' BGS

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NA
Logged By: TYP
Changed from Staked Position:

Date: ~~3/5~~ 11/05/14
Test Pit No: 3-178
Excavator: 308
Weather: 45° WINDY
GW Depth: 3½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	ORANGE SILTY SAND, GREY LENS	~~D~~ O	Ø	Y		P / F
06-12	ORANGE SILTY SAND, SILTY CLAY, GREY LENS					P / F
12-18	LIGHT BROWN SILTY CLAY			N		P / F
18-24	DARK BROWN CLAY					P / F
24-30						P / F
30-36						P / F
36-42	MEDIUM SILTY SAND, GRAVELS	M	30%			P / F
42-48	GRAVELS + COBBLES	W	60%			(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TYP
Changed from Staked Position:

Date: 11/05/14
Test Pit No: 3-178W
Excavator: 308
Weather: 45° CLOUDY
GW Depth: >2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	Ø	Ø	N		P / F
06-12	SILTY CLAY (LIGHT BROWN)					P / F
12-18						P / F
18-24	(LIGHT GREY)					P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/17/14
Test Pit No: 3-179
Excavator: 308
Weather: 100
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18	ORANGE SILTY CLAY					P / F
18-24						P / F
24-30	GRAVELS, COBBLES		40-60	N		P / F
30-36						P / F
36-42		M				P / F
42-48		W				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 111 17/14
Test Pit No: 3 - 180
Excavator: 308
Weather: 100
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	0	0	Y		P / F
06-12						P / F
12-18	DARK BROWN SILTY SAND			N		P / F
18-24						P / F
24-30	LIGHT BROWN CLAY					P / F
30-36						P / F
36-42	MEDIUM SAND		30			P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/17/14
Test Pit No: 3-181
Excavator: 308
Weather: 50
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	0-30	Y		P / F
06-12						P / F
12-18	ORANGE SILTY SAND					P / F
18-24	LIGHT BROWN SILTY CLAY, ANGULAR ROCK		40-60	N		P / F
24-30						P / F
30-36						P / F
36-42		M				P / F
42-48		W				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/5/14
Test Pit No: 3-182
Excavator: DAVE KEAP
Weather:
GW Depth: 3.5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	GRAY/ORANGE MOTTLED SILT	M	—	Y		P / F
06-12	↓	M	—	Y		P / F
12-18	↓	M	—	Y		P / F
18-24	GRAY SILT	M	—	N		P / F
24-30	↓	M	—	N		P / F
30-36	BROWN SAND/GRAVEL ~~STRATAS~~ STREAMING	W	—	N		P / F
36-42	↓	W	—	N		P / F
42-48	BROWN SAND	W	—	N		P / F
48-54	BROWN SANDY GRAVEL	W	—	N		P / F
54-60	↓	W	~~10~~ 60(%)	N		P / F
60-66						P / F
66-72						P / F

Remarks: ACCQUIFER @ 5' BGS.

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TYP
Changed from Staked Position:

Date: 11/04/14
Test Pit No: 3-183
Excavator: 308
Weather: 40° CLOUDY
GW Depth: 3½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOIL WITH SILTY SAND	D	0	Y		P / F
06-12	SILTY SAND MIXED WITH CLAY	↓	↓	Y		P / F
12-18	↓	↓	↓	N		P / F
18-24	CLAY	↓	↓	↓		P / F
24-30	↓	↓	↓	↓		P / F
30-36	MEDIUM SAND WITH ORANGE & GREY LENS	M	↓	Y		P / F
36-42	↓	W	40%	↓		P / F
42-48	GRAVEL AND COBBLES WITH ORANGE SAND LENS	W	60%	↓		(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/5/14
Test Pit No: 3-184
Excavator: DAVE KIPP
Weather: P. CLOUDY, ~35°F
GW Depth: NOT ENCOUNTERED

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	LIGHT GRAY/ORANGE MOTTLED SILT	M	—	Y		P / F
06-12		M	—	Y		P / F
12-18		M	—	Y		P / F
18-24		M	—	Y		P / F
24-30	GRAY SILT	M	—	N		P / F
30-36		M	—	N		P / F
36-42	BROWN SANDY GRAVEL	M	~~2~~ 50 mm	N		P / F
42-48		M	~~2~~ 70 mm	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NA
Logged By: TYP
Changed from Staked Position:

Date: 11/4/14
Test Pit No: 3-185
Excavator: 308
Weather: 40° WINDY
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SILTY SAND WITH SOILS, ORANGE LENS	D	Ø	Y		P / F
06-12	SILTY SAND, ORANGE LENS					P / F
12-18						P / F
18-24	SILTY CLAY			N		P / F
24-30				N		P / F
30-36	ORANGE SILTY SAND ~~AT~~ LENS IN CLAY			Y		P / F
36-42		M				P / F
42-48	SILTY CLAY	W		N		P / F
48-54	GRAVELS	W	40%			P / F
54-60	GRAVELS & COBBLES	W	60%	N		(P) / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TYP
Changed from Staked Position:

Date: 11/4/14
Test Pit No: 3-186
Excavator: 308
Weather: 40° WINDY
GW Depth: 4 1/2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SILTY SAND WITH SOILS	D	Ø	Y		P / F
06-12	ORANGE SILTY SAND, ~~MIX~~ GREY LENS					P / F
12-18						P / F
18-24						P / F
24-30	SILTY CLAY			N		P / F
30-36						P / F
36-42		M				P / F
42-48		M				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TYP
Changed from Staked Position:

Date: 11/04/14
Test Pit No: 3-187
Excavator: 308
Weather: 45° CLOUDY
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS WITH ORANGE SILTY SAND	D	Ø	Y		P / F
06-12	ORANGE ~~AND~~ SILTY SAND					P / F
12-18						P / F
18-24	CLAY WITH ORANGE LENS					P / F
24-30				N		P / F
30-36	CLAY	M				P / F
36-42	ORANGE MEDIUM SAND	M				P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position: STAKED 80'S (ONTO BANK ON ISLAND)

Date: 12/9/14
Test Pit No: 3-188
Excavator: DAVE WOPA
Weather: P. CLOUDY, ~35°F
GW Depth:

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	PEAT, BROWN SILT / ~~[illegible]~~ ORANGE SILT	M	—	Y		P / F
06-12	DARK GRAY / LIGHT BROWN MOTTLED SILT	M	—	N		P / F
12-18	GRAY SILT	M	—	N		P / F
18-24	↓	M	—	N		P / F
24-30	BROWNISH- GRAY CLAYEY SILT	M	—	N		P / F
30-36	REDDISH- BROWN SAND	M	—	N		P / F
36-42	REDDISH BROWN / GRAY MOTTLED SILT	M	—	N		P / F
42-48	GRAY SILTY GRAVEL	W	~50(mm)	N		P / F
48-54	SANDY GRAVEL	W	~~10~~ 60cm	N		P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TYP
Changed from Staked Position:

Date: 11/04/14
Test Pit No: 3-189
Excavator: 308
Weather: 40° CLOUDY
GW Depth: 3½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOIL, ~~or~~ SILTY SAND.	D	Ø	Y		P / F
06-12	ORANGE SILTY SAND	↓	↓	↓		P / F
12-18	↓	↓	↓	↓		P / F
18-24	SILTY CLAY	↓	↓	N		P / F
24-30	CLAY	M	↓	↓		P / F
30-36	↓	W	↓	↓		P / F
36-42	↓	↓	↓	↓		P / F
42-48	CLAY, MEDIUM SAND	↓	↓	↓		(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TYP
Changed from Staked Position:

Date: 11/09/14 05
Test Pit No: 3-190
Excavator: 308
Weather: 40° WINDY
GW Depth: 3½

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	ORANGE SILTY SAND	D	Ø	X		P / F
06-12						P / F
12-18	LIGHT BROWN SILTY CLAY			N		P / F
18-24	DARK BROWN CLAY					P / F
24-30		M				P / F
30-36		M				P / F
36-42	LIGHT BROWN SILTY SAND	W				P / F
42-48	GRAVELS		40			(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED

Page ___ of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/9/14
Test Pit No: 2-191
Excavator: DAVE KIPP
Weather: P. CLOUDY, ~40°F
GW Depth: S

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	MOOSE H- BROWN/ BROWN LOAMY SILT	M	—	Y		P / F
06-12	↓	M	—	Y		P / F
12-18	GRAY/BROWN MOTTLED SILT	M	—	Y		P / F
18-24	↓	M	—	Y		P / F
24-30	GRAY SILT.	M	—	N		P / F
30-36	DARK GRAY SILTY CLAY	M	—	N		P / F
36-42	↓	M	—	N		P / F
42-48	↓	M	—	N		P / F
48-54	↓	W	—	N		P / F
54-60	↓	W	—	N		P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/9/14
Test Pit No: 2-1915
Excavator: DAVE KIPP
Weather: SUNNY, WINDY (5) ~40°F
GW Depth: ~~[illegible]~~ 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	DARK BROWN LOAMY SAND	M	–	Y		P / F
06-12	LIGHT BROWN / ORANGE MOTTLED SILT.	M	–	Y		P / F
12-18	DARK GRAY CLAYEY SILT	M	–	N		P / F
18-24		M	–	N		P / F
24-30		M	–	N		P / F
30-36		W	–	N		P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/15/14
Test Pit No: 3-191E2
Excavator: DAVE WIPP
Weather: SUNNY, ~20°F
GW Depth: NOT ENCOUNTERED

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN SILT / ROOTS	M	—	N		P / F
06-12		M	—	N		P / F
12-18	BROWNISH GRAY SILT	M	—	N		P / F
18-24	BROWNY GRAY MOTTLED SILT	M	—	N		P / F
24-30	~~TRACE LEAVES~~ TRACE LEAVES 18-24"	M	—	N		P / F
30-36	BROWNISH-GRAY SANDY SILT	M	—	N		P / F
36-42		M	—	N		P / F
42-48	BROWNISH-GRAY COARSE SAND WITH SILT	M	—	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page 1 of 1

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/5/17
Test Pit No: 3-192
Excavator: DAVE VIPP
Weather: P. CLOUDY, ~40°F
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN CLAY SAND	M	—	N		P / F
06-12	LIGHT BROWN ORANGE MOTTLED SILT	M	—	Y		P / F
12-18	↓	M	—	Y		P / F
18-24	PALE GRAY SILT	M	—	N		P / F
24-30	PALE GRAY SILTY CLAY	M	—	N		P / F
30-36	↓	M	—	N		P / F
36-42	GRAY SANDY SILT	M	—	N		P / F
42-48	SILTY SAND WITH GRAVEL, TRACE COBBLES	W	≤ 25(%)	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/9/19
Test Pit No: 3-1925
Excavator: DAVE KIPP
Weather: SUNNY, WINDY (S); ≈ 40°F
GW Depth: NOT ENCOUNTERED

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	DARK BROWN TORMY SILT, TRACE TAILINGS	M	—	Y		P / F
06-12	LIGHT BROWN / ORANGE MOTTLED SILT	M	—	Y		P / F
12-18	DARK GRAY CLAYEY SILT	M	—	N		P / F
18-24		M	—	N		P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TYP
Changed from Staked Position:

Date: 11/05/14
Test Pit No: 3-193
Excavator: 308
Weather: ~~40~~ 45° WINDY
GW Depth: 3 1/2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, ORANGE SILTY CLAY	D	Ø	Y		P / F
06-12	LIGHT BROWN SILTY CLAY	↓	↓	N		P / F
12-18	↓	↓	↓	↓		P / F
18-24	↓	↓	↓	↓		P / F
24-30	↓	M	↓	↓		P / F
30-36	DRAK BROWN CLAY	M	↓	↓		P / F
36-42	↓	W	30	↓		P / F
42-48	GRAVELS & COBBLES	↓	60	↓		(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TYP
Changed from Staked Position:

Date: 11/05/14
Test Pit No: 3-193W
Excavator: 308
Weather: 48° & IN OY
GW Depth: 2 1/2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOIL, SILTY CLAY, SMALL ORANGE LENS	D	0	~~N~~ Y		P / F
06-12	SIL DARK BROWN SILTY CLAY	↓	↓	~~Y~~ N		P / F
12-18	↓	↓	↓	↓		P / F
18-24	↓	↓	↓	↓		(P) / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/17/14
Test Pit No: 3-194
Excavator: 308
Weather: 50
GW Depth: 4½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18	LIGHT BROWN SILTY SAND					P / F
18-24	TAN MEDIUM SAND, ORANGE SAND					P / F
24-30				N		P / F
30-36	DARK BROWN CLAY					P / F
36-42	GRAVELS, COBBLES	M	40-60			P / F
42-48		W				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/19/14
Test Pit No: 3-195
Excavator: 308
Weather: 80
GW Depth: 5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	ORANGE SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18	TAN SILTY SAND					P / F
18-24						P / F
24-30	ORANGE SILTY SAND, GREY VENS					P / F
30-36						P / F
36-42	MEDIUM SAND			N		P / F
42-48						P / F
48-54		M				P / F
54-60	GRAVELS, SAND	W	60			P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/17/14
Test Pit No: 3-196
Excavator: 308
Weather: 5°
GW Depth: 75'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	Ø	X		P / F
06-12						P / F
12-18						P / F
18-24	DARK BROWN SILTY CLAY, ORANGE LENS					P / F
24-30				N		P / F
30-36	LIGHT BROWN SILTY SAND					P / F
36-42						P / F
42-48	DARK BROWN SILTY CLAY					P / F
48-54	GRAVELS, COBBLES		40-60			P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TVP
Changed from Staked Position:

Date: 11/14/14
Test Pit No: 3-197
Excavator: 308
Weather: 100 SNOWING
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	0	0	Y		P / F
06-12						P / F
12-18	GREY LENS					P / F
18-24	DARK BROWN SILTY CLAY			N		P / F
24-30	LIGHT BROWN CLAY					P / F
30-36						P / F
36-42	GRAVELS, COBBLES		40-60			P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: ~~44~~ NO PHOTO
Logged By: TYP
Changed from Staked Position:

Date: 11/14/14
Test Pit No: 3-199
Excavator: 308
Weather: 10° SNOWING
GW Depth: 4½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	DARK BROWN SILTY CLAY	↓	↓	N		P / F
18-24	LIGHT BROWN SILTY CLAY	↓	↓	↓		P / F
24-30	↓	↓	↓	↓		P / F
30-36	MEDIUM SAND, COBBLES	↓	40	↓		P / F
36-42	↓	↓	↓	↓		P / F
42-48	↓	M	60	↓		P / F
48-54	↓	W	↓	↓		P / F
54-60	↓	↓	↓	↓		P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By:
Changed from Staked Position:

Date: 12/5/14
Test Pit No: 3-200
Excavator: DAVE KIAP
Weather: P. CLOUDY
GW Depth: 2.5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN/ORANGE SILT	M	—	Y		P / F
06-12	~~SANDY~~ GRAVELLY SAND, MACE TAILINGS (BROWN)	M	—	Y		P / F
12-18	↓	M	—	Y		P / F
18-24	BROWN GRAVELLY SAND	M	— 30 (mm)	N		P / F
24-30	↓	W	— 30 mm	N		P / F
30-36	BROWN SANDY GRAVEL	W	— 50 mm	N		P / F
36-42	↓	W	— 50 (mm)	N		P / F
42-48	↓	W	— 50 mm	N		P / F
48-54	↓	W	~~[illegible]~~ 120 (mm)	N		P / F
54-60	↓	W	~~30 [illegible]~~ mm	N		P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TYP
Changed from Staked Position:

Date: 11/4/14
Test Pit No: 3-201
Excavator: 308
Weather: 45° cloudy
GW Depth: 5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SILTY SAND WITH SOILS	O	Ø	Y		P / F
06-12	~~SILTY~~ ORANGE SILTY SAND					P / F
12-18						P / F
18-24	~~AA~~ SILTY CLAY WITH ORANGE SILTY SAND LENS			N		P / F
24-30						P / F
30-36	SILTY CLAY					P / F
36-42						P / F
42-48		M				(P) / F
48-54		M				P / F
54-60	GRAVEL AND COBBLES	W	60%			P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TYP
Changed from Staked Position:

Date: 11/04/14
Test Pit No: 3-202
Excavator: 308
Weather: ~40° CLOUDY
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	ORANGE SILTY SAND	O	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	CLAY			N		P / F
18-24	↓			↓		P / F
24-30	↓			↓		P / F
30-36	↓	↓	↓	↓		P / F
36-42	SILTY CLAY	M	↓	↓		P / F
42-48	↓	W				(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TYP
Changed from Staked Position:

Date: 11/04/14
Test Pit No: ~~3-~~ 3-203
Excavator: 308
Weather: 40° CLOUDY
GW Depth: 3½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS WITH ORANGE SILTY SAND	D	Ø	Y		P / F
06-12	ORANGE SILTY SAND	↓	↓	Y		P / F
12-18	CLAY			N		P / F
18-24	↓	↓	↓	↓		P / F
24-30		M				P / F
30-36		W				P / F
36-42		↓	↓			P / F
42-48	GRAVELS AND COBBLES		40-60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TYP
Changed from Staked Position:

Date: 11/04/14
Test Pit No: 3-204
Excavator: 308
Weather: 40° CLOUDY
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOIL GRAVELY SAND	D	30-40	Y		P / F
06-12	GRAVELY SAND	↓	↓	↓		P / F
12-18	ORANGE SILTY SAND	↓	Ø	↓		P / F
18-24	SILTY SAND WITH CLAY	↓	↓	N		P / F
24-30	↓	↓	↓	↓		P / F
30-36	CLAY	↓	↓	↓		P / F
36-42	↓	M	↓	↓		P / F
42-48	↓	W	↓	↓		(P) / F
48-54	GRAVEL & COBBLES	W	60	↓		P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TYP
Changed from Staked Position:

Date: 11/04/14
Test Pit No: 3-205
Excavator: 308
Weather: 40° CLOUDY
GW Depth: 3½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOIL WITH ORANGE SILTY SAND LENS	D	Ø	Y		P / F
06-12	SILTY SAND	↓	↓	↓		P / F
12-18	↓	↓	↓	N		P / F
18-24	CLAY	↓	↓	↓		P / F
24-30	↓	↓	↓	↓		P / F
30-36	MEDIUM SAND WITH ORANGE LENS	~~D~~ M	↓	↓		P / F
36-42	↓	W	↓	↓		P / F
42-48	GRAVEL & COBBLES	↓	40-60	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/14/14
Test Pit No: 3-206
Excavator: 308
Weather: 10° SNOWING
GW Depth: 6'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	0	X		P / F
06-12				↓		P / F
12-18	DARK BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30	LIGHT BROWN CLAY					P / F
30-36						P / F
36-42	LIGHT TAN MEDIUM SAND					P / F
42-48	↓, ORANGE LENS	↓	↓	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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6-4'
6-2'
2-3'

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TYP
Changed from Staked Position:

Date: 11/5/14
Test Pit No: 3-207w
Excavator: 308
Weather: 45° SUNNY
GW Depth: 2 1/2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND, SOIL	D	Ø	Y		P / F
06-12	DARK BROWN SILTY CLAY	↓	↓	N		P / F
12-18	↓	↓	↓	↓		P / F
18-24	LIGHT BROWN CLAY	M	↓	↓		(P) / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TYP
Changed from Staked Position:

Date: 11/05/14
Test Pit No: 3-207
Excavator: 308
Weather: 48° SUNNY
GW Depth: 3½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	ORANGE SILTY SAND	D	Ø	Y		P / F
06-12	(GREY LENS)					P / F
12-18	LIGHT BROWN CLAY			N		P / F
18-24						P / F
24-30	SILTY CLAY	M				P / F
30-36		M				P / F
36-42	DARK BROWN CLAY	W				P / F
42-48						Ø / F
48-54	COBBLES					P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/17/14
Test Pit No: 3-208
Excavator: [illegible]
Weather: Sunny, 30°F
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	Dark Brown Cobbly Silt	M	—	N		P / F
06-12	Brown Sand	M	—	N		P / F
12-18	Brown Silty Sand	M	—	N		P / F
18-24	↓	M	—	N		P / F
24-30	Brown Sand	M	—	N		P / F
30-36	Gray Coarse Sand	W	—	N		P / F
36-42	↓	W	—	N		(P) / F
42-48	↓	W	—	N		(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/9/14
Test Pit No: ~~3-210 3-190 (MP~~ 3-210 (MP)
Excavator: DAVE KLIAP
Weather: P. CLOUDY
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN SILT	M	—	~		P / F
06-12	GRAY SILT	M	—	~		P / F
12-18	↓	M	—	~		P / F
18-24	DARK GRAY CLAYEY SILT.	M	—	~		P / F
24-30	DARK GRAY SILTY CLAY	M	—	~		P / F
30-36	↓	M	—	~		P / F
36-42		M	—	~		P / F
42-48		W	—	~		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/9/14
Test Pit No: 3-211
Excavator: DAVE BLEAP
Weather: P. CLOUDY
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN SILT	M	—	N		P / F
06-12	GRAYISH-BROWN SILT	M	—	N		P / F
12-18	↓	M	—	N		P / F
18-24	↓	M	—	N		P / F
24-30	AEOBISH-BROWN SILTY SAND	M	—	N		P / F
30-36	↓	M	—	N		P / F
36-42	GRAY SANDY SILT	M	—	N		P / F
42-48	SANDY GRAVEL (ALLUVIUM)	W	20-70%	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/9/14
Test Pit No: 3-212
Excavator: DAVE KEPP
Weather: SUNNY, WINDY(5) 40°F
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	YELLOW/ORANGE/BROWN MOTTLED SILT	M	—	Y		P / F
06-12		M	—	Y		P / F
12-18		M	—	Y		P / F
18-24	GRAY SILT, MEDIST BROWN MOTTLES	M	—	N		P / F
24-30	DARK GRAY SILT	M	—	N		P / F
30-36		M	—	N		P / F
36-42		M	—	N		(P) / F
42-48	SANDY GRAVEL (ALLUVIUM)	~~M~~ W	~~10~~ 60%	~~N~~ N GW		(P) / F
48-54	~~SANDY GRAVEL (ALLUVIUM)~~ M	~~W~~ GW	~~10~~ 60%	~~N~~ N		~~P / F~~
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/9/14
Test Pit No: 3-212S
Excavator: DAVE KIPP
Weather: P CLOUDY, ~40°F.
GW Depth: NOT ENCOUNTERED

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SILT, BROWN/ORANGE/YELLOW MOTTLED	M	—	Y		P / F
06-12	↓	M	—	Y		P / F
12-18	DARK BROWNISH GRAY SILT	M	—	N		(P) / F
18-24	↓	M	—	N		(P) / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETGIS
Changed from Staked Position:

Date: 12/9/14
Test Pit No: 3-214
Excavator: DAVE KIPP
Weather: P. CLOUDY,
GW Depth: 85'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN LOAMY SILT	~	—	~		P / F
06-12	↓	~	—	~		P / F
12-18	GRAY SILT	~	—	~		P / F
18-24	↓	~	—	~		P / F
24-30	REDDISH-BROWN SAND	~	—	~		P / F
30-36	~~REDDISH-BROWN SAND~~ ↓	~	—	~		P / F
36-42	GRAY SILT	~	—	~		P / F
42-48	GRAY SANDY GRAVEL (ALLUVIUM)	W	~~20~~ 70 (NP)	~		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/17/14
Test Pit No: 3-215
Excavator: 308
Weather: 5°
GW Depth: 4 1/2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	Ø	Y		P / F
06-12	GREY LENS					P / F
12-18	ORANGE SILTY SAND					P / F
18-24	LIGHT BROWN SILTY CLAY			N		P / F
24-30	DARK BROWN CLAY					P / F
30-36						P / F
36-42	MEDIUM SAND		30			P / F
42-48	GRAVELS, COBBLES	M	40-60			(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/17/14
Test Pit No: 3-216
Excavator: 308
Weather: 100°
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	0	0	Y		P / F
06-12						P / F
12-18	DARK BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42	SILTY SAND					P / F
42-48	GRAVELS, COBBLES		40-60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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TH11

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/14/14
Test Pit No: 3-217
Excavator: 308
Weather: 10° SNOW
GW Depth: 4½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	ORANGE SILTY SAND	↓	↓	↓		P / F
18-24	↓	↓	↓	↓		P / F
24-30	ORANGE SILTY CLAY, GREY LENS	↓	↓	↓		P / F
30-36	↓	↓	↓	↓		P / F
36-42	ORANGE GRAVELY SAND	↓	30	↓		P / F
42-48	↓	M	40	N		P / F
48-54	, GREY SILTY CLAY LENS	W	↓	Y		P / F
54-60	↓	↓	↓	↓		P / F
60-66	ORANGE SAND, COBBLES	↓	60	↓		P / F
66-72	↓	↓	↓	↓		P / F

Remarks: SAMPLED DOWN TO 7', ~~COAR~~ COARSE ALLUVIAM @ 6½'

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TVP
Changed from Staked Position:

Date: 11/14/14
Test Pit No: 3-218
Excavator: 308
Weather: 10° SNOWING
GW Depth: >4

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	0	X		P / F
06-12	, GREY LENS					P / F
12-18						P / F
18-24	LIGHT BROWN SILTY CLAY, ORANGE LENS					P / F
24-30	& SILTY CLAY			N		P / F
30-36						P / F
36-42						P / F
42-48	MEDIUM SAND, ORANGE TINT					(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

111

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TVP
Changed from Staked Position:

Date: 11/14/14
Test Pit No: 3-219
Excavator: 308
Weather: 10° SNOWING
GW Depth: 4'12'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND, SOILS	D	0	Y		P / F
06-12						P / F
12-18	DARK BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30	LIGHT BROWN CLAY					P / F
30-36						P / F
36-42	TAN MEDIUM SAND					P / F
42-48	GRAVELY SAND	M	40%			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TYP
Changed from Staked Position:

Date: 11/05/14
Test Pit No: 3-220
Excavator: 308
Weather: 50 SUNNY
GW Depth: 3½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	ORANGE SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18	ORANGE SILTY CLAY, GREY LENS					P / F
18-24						P / F
24-30	DARK BROWN CLAY			N		P / F
30-36	SE LIGHT BROWN SILTY CLAY	M				P / F
36-42		W				P / F
42-48						(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/13/14
Test Pit No: 3-221
Excavator: 308
Weather: 15°
GW Depth: 4'/2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	0	Y		P / F
06-12	ORANGE SILTY SAND	↓	↓	↓		P / F
12-18	DARK BROWN SILTY CLAY					P / F
18-24	↓			N		P / F
24-30	LIGHT BROWN CLAY			↓		P / F
30-36	↓		↓			P / F
36-42	GRAVELS, COBBLES		40-60			P / F
42-48	↓	↓	↓	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/17/14
Test Pit No: 3-222
Excavator: DAE MIPP
Weather: SUNNY ~30°F
GW Depth: ~~A~~ 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN/ORANGE MOTTLED SILT	M	—	Y		P / F
06-12	ORANGE/GRAY MOTTLED SILTY SAND	M	—	Y		P / F
12-18		M	—	Y		P / F
18-24	GRAY/YELLOW MOTTLED SILT	M	—	Y		P / F
24-30	GRAY GRAVELLY SAND	M	—30(mm)	N		P / F
30-36		W	—30(mm)	N		P / F
36-42		W	—30(mm)	N		P / F
42-48	GRAY SANDY GRAVEL (ALLUVIUM)	W	~~20~~ 70(mm)	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page 1 of 1

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/13/14
Test Pit No: 3-223
Excavator: 308
Weather: 50
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	0	Y		P / F
06-12	ORANGE SILTY SAND	↓	↓	↓		P / F
12-18	LIGHT BROWN SILTY CLAY. GREY LENS	↓	↓	↓		P / F
18-24	LIGHT BROWN SILTY CLAY	↓	↓	N		P / F
24-30	↓	↓	↓	↓		P / F
30-36	DARK BROWN CLAY	↓	↓	↓		P / F
36-42	↓	↓	↓	↓		P / F
42-48	↓	M ~~[illegible]~~	↓	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: SLICKEN AREA

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/14/14
Test Pit No: 3-224
Excavator: 308
Weather: 10° - SNOWING
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN, ORANGE SILTY SAND	P	0	Y		P / F
06-12						P / F
12-18	ORANGE SILTY CLAY, GREY LENS					P / F
18-24	, LENS OF COKE					P / F
24-30	ORANGE MEDIUM SAND					P / F
30-36						P / F
36-42	GREY SILTY CLAY, SAND	M		N		P / F
42-48		W				P / F
48-54	ORANGE SILTY SAND					P / F
54-60	GRAVELS, COBBLES		40-60			P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/13/14
Test Pit No: 3-225
Excavator: 308
Weather: 10
GW Depth: 4½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	0	0	Y		P / F
06-12	ORANGE SILTY SAND					P / F
12-18	GREY LENS					P / F
18-24						P / F
24-30	LIGHT BROWN SILTY CLAY, ORANGE LENS					P / F
30-36	DARK BROWN CLAY			N		P / F
36-42						P / F
42-48	GRAVELY SAND		30			(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: SLICKEN AREA

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TVP
Changed from Staked Position:

Date: 11/13/14
Test Pit No: 3-226
Excavator: 308
Weather: 100
GW Depth: 4½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND. SOILS	0	0	Y		P / F
06-12	ORANGE SILTY SAND, GREY LENS					P / F
12-18						P / F
18-24	~~LIG~~ DARK BROWN SILTY CLAY			N		P / F
24-30						P / F
30-36	LIGHT BROWN CLAY					P / F
36-42						P / F
42-48						(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/10/14
Test Pit No: 3-227
Excavator: 308
Weather: 15°
GW Depth: 3½

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, ORANGE SILTY SAND	O	Ø	Y		P / F
06-12						P / F
12-18	DARK BROWN SILTY CLAY			N		P / F
18-24	LIGHT BROWN CLAY					P / F
24-30						P / F
30-36	GRAVELS, COBBLES	M	40			P / F
36-42		W	60			P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/10/14
Test Pit No: 3-228
Excavator: 308
Weather: 15°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	ORANGE SILTY SAND. SOILS	D	0	Y		P / F
06-12	LIGHT TAN SILTY CLAY			Y		P / F
12-18	DARK BROWN CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42		M				P / F
42-48		W				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/10/14
Test Pit No: ~~308~~ 3-228W
Excavator: 308
Weather: 10°
GW Depth: >3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, ~~#~~ TAN SILTY SAND	Ø	Ø	Y		P / F
06-12	DARK BROWN SILTY CLAY			~~Y~~ N		P / F
12-18						P / F
18-24	LIGHT BROWN CLAY					P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/9/14
Test Pit No: 3-230
Excavator: DAVE KEPP
Weather: CLOUDY, WINDY(S), ~40°F
GW Depth: 4.8'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN LOAMY SILT	M	—	N		P / F
06-12	GRAY SILT	M	—	N		P / F
12-18	↓	M	—	N		P / F
18-24	BROWN SANDY SILT	M	—	N		P / F
24-30	↓	M	—	N		P / F
30-36	↓	M	—	N		P / F
36-42	↓	M	—	N		P / F
42-48	GRAY SILTY CLAY.	W	—	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/9/14
Test Pit No: 3-231
Excavator: DAVE UTAP
Weather: Cloudy, 24°F.
GW Depth: 41

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN/YELLOW/ORANGE MOTTLED SILT	M	—	Y		P / F
06-12	↓	M	—	Y		P / F
12-18	BRAYISH-BROWN SILT.	M	—	N		P / F
18-24	BROWN SILT	M	—	N		P / F
24-30	BROWN SILTY CLAY	M	—	N		P / F
30-36	↓	M	—	N		P / F
36-42	GREENISH-GRAY SAND	M	—	N		P / F
42-48	↓	W	—	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETRI
Changed from Staked Position:

Date: 12/9/14
Test Pit No: 3-232
Excavator: DAVE KTAP
Weather: CLOUDY, ~ 40°F, WINDY (S)
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06		M	—	Y		P / F
06-12		M	—	Y		P / F
12-18		M	—	Y		P / F
18-24	DARK GRAY SILT MOTTLED WITH ORANGE / BROWN SILT	M	—	Y		P / F
24-30	DARK GRAY SILT	M	—	N		P / F
30-36	GRAY SILTY CLAY	M	—	N		P / F
36-42	↓	M	—	N		P / F
42-48	SANDY GRAVEL (ALLUVIUM)	W	~ 60%	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/18/14
Test Pit No: 3-233
Excavator: DAVE KIPP
Weather: P CLOUDY, ≈ 20°F
GW Depth: 3.5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN/ORANGE/GRAY/YELLOW MOTTLED SILT	M	—	Y		P / F
06-12		M	—	Y		P / F
12-18		M	—	Y		P / F
18-24		M	—	Y		P / F
24-30	BROWNISH GRAY SILT	M	—	N		P / F
30-36		M	—	N		P / F
36-42		W	—	N		P / F
42-48	GRAY SANDY GRAVEL (ALLUVIUM)	W	10 60 mm	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page 1 of 1

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/18/14
Test Pit No: 3-234
Excavator: DAVE HEAP
Weather: P. CLOUDY, ~25°F
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN/YELLOW ORANGE MOTTLED SILT	M	—	Y		P / F
06-12		M	—	Y		P / F
12-18		M	—	~~N~~ Y		P / F
18-24	GRAY SANDY SILT	M	—	~		P / F
24-30		M	—	~		P / F
30-36		M	—	~		P / F
36-42		W	—	~		P / F
42-48	BROWN SANDY GRAVEL (ALLUVIUM)	W	20%	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page 1 of 1

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK P GEFGS
Changed from Staked Position:

Date: 12/17/14
Test Pit No: 3-235
Excavator: DAVE KEPP
Weather: SUNNY, ~30°F
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN/YELLOW/ORANGE SILTY SAND	M	—	Y		P / F
06-12			—	Y		P / F
12-18	DARK GRAY SILT (15")		—	~~N~~ Y		P / F
18-24	~~DARK GRAY~~ SILT		—	~		P / F
24-30	BROWN GRAVELLY SAND		—	~		P / F
30-36			—	~		P / F
36-42	REDDISH BROWN CEMENTED GRAVELLY SAND		— 30 cm	~		P / F
42-48	BROWN GRAVELLY SAND		— 30 cm	~		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/17/14
Test Pit No: 3-236
Excavator: DAVE KIPP
Weather: SUNNY
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN/ORANGE MOTTLED SILT	M	—	Y		P / F
06-12	BROWN/YELLOW/ORANGE MOTTLED SILT	M	—	Y		P / F
12-18	↓	M	—	Y		P / F
18-24	LIGHT GRAY/GRAY MOTTLED SILT	M	—	Y		P / F
24-30	BROWN/GRAY SILTY SAND	M	—	N		P / F
30-36	↓	W	—	N		P / F
36-42	GRAVELLY SAND (GRAY)	W	~~X~~ -30(mm)	N		P / F
42-48	GRAY SANDY GRAVEL (ALLUVIUM)	W	~~30~~ 80(mm)	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TP
Changed from Staked Position:

Date: 11/14/14
Test Pit No: 3-237
Excavator: 308
Weather: 5° SNOWING
GW Depth: 5½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	~~TOPSOIL~~, TAN SILTY SAND	D	0	X		P / F
06-12						P / F
12-18	GREY SILTY CLAY, SILTY SAND					P / F
18-24	ORANGE SILTY SAND					P / F
24-30						P / F
30-36						P / F
36-42	LIGHT GREY CLAY			N		P / F
42-48	, ORANGE LENS					P / F
48-54	GRAVELS, COBBLES	D	40-60			P / F
54-60		M				P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 7/17/14
Test Pit No: 3-238
Excavator: 308
Weather: 100
GW Depth: ~~[illegible]~~ 41

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	0	0	Y		P / F
06-12						P / F
12-18	LIGHT GREY SAND			N		P / F
18-24						P / F
24-30						P / F
30-36	DARK BROWN SAND, ORANGE ~~&~~ LENS					P / F
36-42		M				P / F
42-48	GRAVELLY SAND	~~[illegible]~~ W	40-60			(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/17/14
Test Pit No: 3-239
Excavator: 308
Weather: 50
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN, ORANGE SILTY SAND	D	0	Y		P / F
06-12						P / F
12-18	DARK BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30	LIGHT BROWN CLAY					P / F
30-36						P / F
36-42	GRAVEL, COBBLES		40-60			P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: TYP
Changed from Staked Position:

Date: 11/10/14
Test Pit No: 3-240
Excavator: 308
Weather: 15°
GW Depth: 3½

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, ORANGE SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18						P / F
18-24	, GREY LENS					P / F
24-30	LIGHT BROWN CLAY			N		P / F
30-36		M				P / F
36-42		W				P / F
42-48						P / F
48-54	MEDIUM SAND, SILTY CLAY					P / F
54-60	MEDIUM SAND					P / F
60-66						P / F
66-72						P / F

Remarks:

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MKII

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TMP
Changed from Staked Position:

Date: 11/14/14
Test Pit No: 3-241
Excavator: 303
Weather: 100 snow
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	Ø	Ø	Y		P / F
06-12	GREY LENS					P / F
12-18	DARK BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30	LIGHT BROWN CLAY					P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/13/14
Test Pit No: 3-242
Excavator: 308
Weather: 100°
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	0	Y		P / F
06-12						P / F
12-18	ORANGE SILTY SAND					P / F
18-24	DARK BROWN SILTY CLAY			N		P / F
24-30	LIGHT BROWN MEDIUM SAND					P / F
30-36						P / F
36-42	DARK BROWN SAND SILTY CLAY					P / F
42-48	DARK BROWN CLAY					P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: T/P
Changed from Staked Position:

Date: 11/13/14
Test Pit No: 3-243
Excavator: 308
Weather: 15
GW Depth: ~~NA~~ 3½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	~~M~~ D	~~0~~	Y		P / F
06-12	ORANGE SILTY SAND					P / F
12-18						P / F
18-24	ORANGE SILTY SAND, GREY LENS					P / F
24-30						P / F
30-36	~~S~~ LIGHT BROWN ~~D~~ SILTY CLAY	~~F~~ M				P / F
36-42	~~G~~ GRAVELY SAND, GREEN LENS	~~F~~ W	40			P / F
42-48	GRAVELS, COBBLES	~~A~~ W	60	N		P / (F)
48-54						P / F
54-60						P / (F)
60-66						P / F
66-72						P / (F)

Remarks: DEWATERED, SAMPLED TO 8' FROM BUCKET

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/13/14
Test Pit No: 3-244
Excavator: 308
Weather: 15°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	0	Y		P / F
06-12						P / F
12-18	DARK BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30	LIGHT BROWN CLAY					P / F
30-36						P / F
36-42	GRAVELY SAND		40			P / F
42-48	GRAVELS, COBBLES	M	60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/13/14
Test Pit No: 3-245
Excavator: 308
Weather: 10°
GW Depth: 4 1/2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	0	Y		P / F
06-12						P / F
12-18	LIGHT BROWN SILTY ~~SA~~ CLAY			N		P / F
18-24						P / F
24-30	DARK BROWN CLAY					P / F
30-36						P / F
36-42						P / F
42-48						(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TJP
Changed from Staked Position:

Date: 11/10/14
Test Pit No: 3-246
Excavator: 308
Weather: 100
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, ORANGE SILTY SAND	D	0	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	↓	↓	↓	↓		P / F
18-24	↓	↓	↓	↓		[illegible]
24-30	LIGHT BROWN CLAY	M	↓	N		P / F
30-36	↓	W	↓	↓		P / F
36-42	GRAVELS, COBBLES	↓	40-60	↓		P / F
42-48	↓	↓	↓	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/10/14
Test Pit No: 3-247
Excavator: 328
Weather: 100°
GW Depth: 3½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	0	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	LIGHT BROWN SILTY CLAY			N		P / F
18-24	↓					P / F
24-30	DARK BROWN CLAY	↓		↓		P / F
30-36	↓	M	↓	↓		P / F
36-42	↓	W	↓	↓		P / F
42-48	COBBLES	↓	40	↓		(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MA
Logged By: TYP
Changed from Staked Position:

Date: 11/10/14
Test Pit No: 3-248
Excavator: 308
Weather: 10°
GW Depth: ~~3'~~ 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	Ø	Y		P / F
06-12	DARK BROWN SILTY CLAY					P / F
12-18				N		P / F
18-24						P / F
24-30	~~DAR~~ LIGHT BROWN CLAY	M				P / F
30-36		W				P / F
36-42						P / F
42-48	GRAVELS, COBBLES		40-60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By:
Changed from Staked Position:

Date: 12/9/14
Test Pit No: 3-252
Excavator: DAVE NEPO
Weather: CLOUDY, 40°F
GW Depth: 41'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN SILT W/ YELLOW MOTTLE	M	—	Y		P / F
06-12	BROWN SILT	M	—	N		P / F
12-18	↓	M	—	N		P / F
18-24	DARK GRAY SILT	M	—	N		P / F
24-30	GRAYISH-BROWN SILT W/ SAND	M	—	N		P / F
30-36	↓	M	—	N		P / F
36-42		M	—	N		(P) / F
42-48		W	—	N		(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/18/14
Test Pit No: 3-253
Excavator: DAVE NIPP
Weather: P. CLOUDY
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	LIGHT BROWN / ORANGE / YELLOW MOTTLED SILT	M	—	Y		P / F
06-12		M	—	Y		P / F
12-18		M	—	Y		P / F
18-24		M	—	Y		P / F
24-30	GRAY SILT	M	—	N		P / F
30-36		M	—	N		P / F
36-42		W	—	N		P / F
42-48		W	—	N		P / F
48-54	GRAY SANDY GRAVEL	W	—50(m)	N		P / F
54-60		W	70(m)	N		P / F
60-66						P / F
66-72						P / F

Remarks:

Page 1 of 1

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/18/14
Test Pit No: 3-254
Excavator: DAVE HIPP
Weather: P. CLOUDY, ~20°F
GW Depth: 3.5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	LIGHT BROWN/YELLOW/ORANGE MOTTLED SILTY SAND	M	—	Y		P / F
06-12	↓	M	—	Y		P / F
12-18	↓	M	—	Y		P / F
18-24	GRAY/ORANGE MOTTLED SILT	M	—	Y		P / F
24-30	GRAY SILT	M	—	N		P / F
30-36	↓	W	—	N		P / F
36-42	GRAY SANDY GRAVEL (ALLUVIUM)	W	~~[illegible]~~ 50(NA)	N		P / F
42-48		W	~~10~~ 60(NA)	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page 1 of 1

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/18/14
Test Pit No: 3-255
Excavator: DAVE KIPP
Weather: PC/CLOUDY, 20°F
GW Depth: 2.5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	LIGHT GRAY/YELLOW/ORANGE MOTTLED SILT	M	—	Y		P / F
06-12	↓	M	—	Y		P / F
12-18	↓	M	—	Y		P / F
18-24	GRAY SILTY SAND	M	—	N		P / F
24-30	GRAY SAND	W	—	N		P / F
30-36	GRAY SANDY ~~GRAVEL (ALLUVIUM)~~	W	—	N		P / F
36-42	GRAY SANDY GRAVEL (ALLUVIUM)	W	20% (mm)	N		P / F
42-48	↓	W	20% (mm)	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETH
Changed from Staked Position:

Date: 12/17/14
Test Pit No: 3-256
Excavator: DAVE WIPP
Weather: P. CLOUDY, ~25°F
GW Depth: 41

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	LIGHT BROWN / ORANGE MOTTLED SILT	M	—	Y		P / F
06-12		M	—	Y		P / F
12-18	DARK GRAY CLAYEY SILT	M	—	N		P / F
18-24		M	—	N		P / F
24-30		M	—	N		P / F
30-36	GRAY SANDY SILT	M	—	N		P / F
36-42		W	—	N		P / F
42-48		W	—	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position: 10' EAST (OFF TOE OF BERM)

Date: 12/17/14
Test Pit No: 3-257
Excavator: ONE STOP
Weather: SUNNY, ~30°F
GW Depth: 3

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	~~DARK~~ LIGHT BROWN SILTY SAND	M	—	Y		P / F
06-12	ORANGE / BROWN ~~LIGHT GRAY/BROWN MOTTLED~~ SILTY SAND	M	—	Y		P / F
12-18		M	—	Y		P / F
18-24	ORANGE / BROWN / LIGHT GRAY MOTTLED SILT	M	—	Y		P / F
24-30	BROWN SAND (START 27")	M	—	Y		P / F
30-36		W	—	N		P / F
36-42		W	—	N		(P) / F
42-48	GRAY SILTY GRAVEL	W	— 50(m)	N		(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page 1 of 1

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/14/14
Test Pit No: 3-258
Excavator: 308
Weather: 15° SNOWING
GW Depth: 6'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	0	0	Y		P / F
06-12						P / F
12-18	DARK BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42	LIGHT BROWN CLAY					P / F
42-48	, ORANGE LENS					P / F
48-54	GRAVELS, COBBLES		40-60			P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TJP
Changed from Staked Position:

Date: 11/14/14
Test Pit No: 3-259
Excavator: 308
Weather: 10° SNOWING
GW Depth: 4½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18	ORANGE SILTY SAND, GREY LENS					P / F
18-24	LIGHT BROWN SILTY CLAY, ORANGE LENS					P / F
24-30	DARK BROWN CLAY			N		P / F
30-36						P / F
36-42						P / F
42-48	LIGHT TAN MEDIUM SAND	M				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/14/14
Test Pit No: 3-200
Excavator: 308
Weather: 10° SNOWING
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND, SOILS	Ø	Ø	X		P / F
06-12	ORANGE SILTY SAND					P / F
12-18	, GREY LENS					P / F
18-24	BROWN, GREY SILTY CLAY, ORANGE LENS					P / F
24-30						P / F
30-36						P / F
36-42		M				P / F
42-48	ORANGE MEDIUM SAND	W		N		P / F
48-54						P / F
54-60						P / F
60-66	GREY GRAVELLY SAND		40			P / F
66-72						P / F

Remarks: PIT WIDENED WITH 2:1 SLOPED SIDES DUE TO UNSTABLE CONDITIONS, 6-7' SAMPLED FROM BUCKET

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: ~~TV~~ MP
Logged By: TYP
Changed from Staked Position:

Date: 11/14/14
Test Pit No: 3-261
Excavator: 308
Weather: 10° SNOW
GW Depth: 4½

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND, SOILS	O	Ø	X		P / F
06-12	↓	↓	↓	↓		P / F
12-18	DARK BROWN SILTY CLAY			N		P / F
18-24	↓			↓		P / F
24-30	LIGHT TAN MEDIUM SAND			Y		P / F
30-36	↓, ORANGE SAND LENS			↓		P / F
36-42	↓	↓		↓		P / F
42-48	GREY SILTY CLAY	M	↓	N		P / F
48-54	GRAVEL, COBBLES	W	40-60	↓		P / F
54-60	↓	↓	↓	↓		P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/13/14
Test Pit No: 3-262
Excavator: 308
Weather: 10°
GW Depth: 4'/2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SOIL	P	0	Y		P / F
06-12	ORANGE SILTY SAND					P / F
12-18						P / F
18-24	DARK BROWN SILTY CLAY			N		P / F
24-30						P / F
30-36	LIGHT BROWN CLAY					P / F
36-42	GRAVELY SAND		30			P / F
42-48	, ORANGE LENS	M	40			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/14/14
Test Pit No: 3-263
Excavator: 308
Weather: 100
GW Depth: 41

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND, SOILS	D	0	Y		P / F
06-12	SILTY CLAY, ORANGE LENS					P / F
12-18	~~ORANGE~~ GREY LENS					P / F
18-24						P / F
24-30	MEDIUM SAND			N		P / F
30-36						P / F
36-42		M				P / F
42-48		W				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NO PHOTO
Logged By: TVP
Changed from Staked Position:

Date: 11/18/14
Test Pit No: 3-264
Excavator: 308
Weather: 10°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND					P / F
06-12						P / F
12-18	ORANGE SILTY SAND					P / F
18-24	DARK BROWN SILTY CLAY					P / F
24-30						P / F
30-36						P / F
36-42	LIGHT BROWN CLAY					P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/10/14
Test Pit No: 3-265
Excavator: 308
Weather: 100°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	G	Y		P / F
06-12	ORANGE SILTY SAND					P / F
12-18						P / F
18-24	GREY SILTY CLAY WHITE LENS					P / F
24-30	LIGHT BROWN SILTY CLAY			N		P / F
30-36	DARK BROWN CLAY					P / F
36-42						P / F
42-48		M				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/21/14
Test Pit No: 3-266
Excavator: 308
Weather: 25°
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18						P / F
18-24	LIGHT BROWN CLAY			N		P / F
24-30	DARK BROWN SILTY CLAY	M				P / F
30-36		W				P / F
36-42	LIGHT BROWN CLAY, COBBLES		40			P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED. SLICKEN AREA

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/21/14
Test Pit No: 3-267
Excavator: 308
Weather: 20°
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	0	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	ORANGE SILTY SAND	↓	↓	↓		P / F
18-24	GREY SILTY CLAY	↓	↓	↓		P / F
24-30	GRAVELS, COBBLES	M	60	N		P / F
30-36	↓	W	↓	↓		P / F
36-42	SILTY SAND	↓	40	↓		P / F
42-48	↓, COBBLES	↓	40	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED, SICKEN AREA

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NO PHOTO
Logged By: TYI
Changed from Staked Position:

Date: 11/11/14
Test Pit No: 3-268
Excavator: 308
Weather: 80
GW Depth: 3 1/2

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	0	Y		P / F
06-12	DARK BROWN SILTY CLAY			N		P / F
12-18						P / F
18-24						P / F
24-30						P / F
30-36		M				P / F
36-42		W				P / F
42-48	SE GRAVELY SAND		50			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NO PHOTO, CAMERA NOT WORKING
Logged By: TJP
Changed from Staked Position:

Date: 11/11/14
Test Pit No: 3-269
Excavator: 308
Weather: 0°
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND, SOILS	D	0	Y		P / F
06-12						P / F
12-18	LIGHT BROWN SILTY CLAY			N		P / F
18-24	COBBLES		30			P / F
24-30		M				P / F
30-36	GRAVELS, COBBLES	W	60			P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED

Page ___ of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: Mark Peters
Changed from Staked Position: Staked 12' west of orig position (River)

Date: 12/9/14
Test Pit No: 3-273
Excavator: Dave Kidd
Weather: Cloudy, ~40°F
GW Depth: 41

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	Brown / Yellow / Orange Mottled Silt	M	—	Y		P / F
06-12	~~Brown Si~~ ↓	M	—	~~N~~ (M) Y		P / F
12-18	Gray Silt	M	—	N		P / F
18-24	Dark Gray Silt	M	—	N		P / F
24-30	↓	M	—	N		P / F
30-36	Brown / Reddish Brown Silty Sand	M	—	N		P / F
36-42	↓	M	—	N		(P) / F
42-48	↓	W	✓	N		(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: [illegible]
Changed from Staked Position:

Date: 12/18/14
Test Pit No: 3-274
Excavator: DAVE UTDP
Weather: P. CLOUDY, ~ 20°F
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN SILT	M	—	N		P / F
06-12		M	—	N		P / F
12-18	BROWN/ ORANGE / YELLOW MOTTLED SILT	M	—	Y		P / F
18-24	~~REDDISH- BROWN SAND~~	M	—	Y		P / F
24-30	REDDISH- BROWN SAND	M	—	N		P / F
30-36		M	—	N		P / F
36-42	GRAY SILTY SAND	~~M~~ W	—	N		P / F
42-48		W	—	N		P / F
48-54	GRAY SANDY GRAVEL	W	— 50mm	N	NO SAMPLE 48-54- GRAVEL SAND	~~P~~ / F
54-60		W	~~10~~ 60mm	N		P / F
60-66						P / F
66-72						P / F

Remarks:

Page 1 of 1

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/18/14
Test Pit No: 3-275
Excavator: DAVE NEPP
Weather: PCLOUDY, ~30°F
GW Depth: 41

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	ORANGE/YELLOW SILT	~	—	Y		P / F
06-12		~	—	Y		P / F
12-18		~	—	Y		P / F
18-24		~	—	Y		P / F
24-30	ORANGE SILT	~	—	N		P / F
30-36		~	—	N		P / F
36-42		~	—	N		P / F
42-48		W	—	N		P / F
48-54	BROWN/ORANGE SAND	W	—	N		P / F
54-60	BROWN ~~[illegible]~~ SAND GRAVEL (ALLUVIUM)	W	20% (GRAVEL)	N		P / F
60-66						P / F
66-72						P / F

Remarks:

Page 1 of 1

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/18/14
Test Pit No: 3-276
Excavator: Dave Kipp
Weather: Cloudy, 20°F
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	Brown/Yellow/Orange Silt	M	—	Y		P / F
06-12		M	—	Y		P / F
12-18		M	—	Y		P / F
18-24	Gray Silt	M	—	N		P / F
24-30		M	—	N		P / F
30-36		W	—	N		P / F
36-42	Gray Silty Sand	W	—	N		P / F
42-48		W	—	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/17/14
Test Pit No: 3-277
Excavator: DANG KOPP
Weather: P. CLOUDY, FLOOR
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN/YELLOW SILT	M	—	Y		P / F
06-12		M	—	Y		P / F
12-18	GRAY CL AYEY SILT	M	—	N		P / F
18-24		M	—	N		P / F
24-30		M	—	N		P / F
30-36		M	—	N		P / F
36-42		W	—	N		P / F
42-48	GRAY SANDY SILT	W	—	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/17/14
Test Pit No: 3-278
Excavator: DAVE USPO
Weather: SUNNY, 30°F
GW Depth: 3.5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	ORANGE / LIGHT BROWN / LIGHT GRAY MOTTLED SILT	M	—	Y		P / F
06-12		M	—	Y		P / F
12-18		M	—	Y		P / F
18-24		M	—	Y		P / F
24-30	DARK GRAY SILT	M	—	N		P / F
30-36	GRAY SAND	M	—	N		P / F
36-42		W	—	N		P / F
42-48		W	—	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/17/14
Test Pit No: 3-279
Excavator: 308
Weather: 10°
GW Depth: 5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN, ORANGE SILTY SAND	D	0	Y		P / F
06-12						P / F
12-18	DARK BROWN SILTY ~~SAND~~ CLAY			N		P / F
18-24						P / F
24-30	LIGHT BROWN CLAY					P / F
30-36						P / F
36-42						P / F
42-48						~~P~~ / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/17/14
Test Pit No: 3-280
Excavator: 308
Weather: 5°
GW Depth: 4½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	0	Y		P / F
06-12						P / F
12-18	DARK BROWN SILTY CLAY			N		P / F
18-24	LIGHT BROWN MEDIUM SAND					P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48	GRAVELS, SANDS	M	40			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MB
Logged By: TYP
Changed from Staked Position:

Date: 11/17/14
Test Pit No: 3-281
Excavator: 308
Weather: 10°
GW Depth: 6'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	4 SOILS, TAN SILTY SAND	D	Ø	X		P / F
06-12						P / F
12-18	MEDIUM SAND			N		P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/17/14
Test Pit No: 3-28/N
Excavator: 308
Weather: 10°
GW Depth: >2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, LIGHT TAN SILTY SAND	D	Ø	N		P / F
06-12	DARK BROWN SILTY CLAY	↓	↓	↓		P / F
12-18	↓	↓	↓	↓		P / F
18-24	↓	↓	↓	↓		P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/17/14
Test Pit No: 3-282
Excavator: 308
Weather: 15°
GW Depth: 4½

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, ORANGE, TAN SILTY SAND	D	0	X		P / F
06-12	↓	↓	↓	↓		P / F
12-18	↓			↓		P / F
18-24	MEDIUM SAND, ~~TA~~ COKE LENS, ORANGE COLOR			N		P / F
24-30	↓			↓		P / F
30-36	↓		↓			P / F
36-42	COURSE GRAVELLY SAND	↓	40-60			P / F
42-48	↓	M	↓	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MA
Logged By: TYP
Changed from Staked Position:

Date: 11/17/14
Test Pit No: 3-282N
Excavator: 308
Weather: 100
GW Depth: >41

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, SMALL TAN LENS	0	Ø	Y		P / F
06-12	DARK BROWN SILTY CLAY			N		P / F
12-18						P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42	MEDIUM SAND, SILTY CLAY					P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/17/14
Test Pit No: 3-283
Excavator: 308
Weather: 15°
GW Depth: 5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN, ORANGE SILTY SAND	D	0	Y		P / F
06-12						P / F
12-18	SILTY CLAY			N		P / F
18-24						P / F
24-30	LIGHT BROWN CLAY					P / F
30-36						P / F
36-42	TAN MEDIUM SAND					P / F
42-48	COURSE GRAVEL		40			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NO PHOTO
Logged By: TYP
Changed from Staked Position:

Date: 11/18/14
Test Pit No: 3-283N
Excavator: 308
Weather: 20°
GW Depth: 3 1/2

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18	LIGHT BROWN CLAY			N		P / F
18-24						P / F
24-30		M				P / F
30-36		W				P / F
36-42	DARK BROWN CLAY					P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NO PHOTO
Logged By: TYP
Changed from Staked Position:

Date: 11/18/14
Test Pit No: 3-284
Excavator: 308
Weather: 100°
GW Depth: 4½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN, ORANGE SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18	ORANGE SILTY SAND					P / F
18-24						P / F
24-30	LIGHT BROWN SILTY CLAY			N		P / F
30-36						P / F
36-42						P / F
42-48	, ORANGE CONS	M				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NO PHOTO
Logged By: TYP
Changed from Staked Position:

Date: 11/18/14
Test Pit No: 3-285
Excavator: 308
Weather: 10°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	ORANGE SILTY SAND	D	0	Y		P / F
06-12						P / F
12-18	LIGHT BROWN SILTY CLAY, GREY LENS					P / F
18-24				N		P / F
24-30	LIGHT BROWN CLAY					P / F
30-36						P / F
36-42	LIGHT BROWN MEDIUM SAND	M				P / F
42-48		W				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/10/14
Test Pit No: 3-286
Excavator: 308
Weather: 100
GW Depth: 3 1/2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, ORANGE, TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18	DARK BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30		M				P / F
30-36	LIGHT BROWN CLAY	W				P / F
36-42						P / F
42-48	GRAVELS, COBBLES		40-60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/21/14
Test Pit No: 3-287
Excavator: 308
Weather: 20w
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18						P / F
18-24	DARK BROWN SILTY CLAY			N		P / F
24-30		M				P / F
30-36	MEDIUM SAND	W				P / F
36-42	GRAVELS, COBBLES		60			P / F
42-48						Ø / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/21/14
Test Pit No: 3-288
Excavator: 308
Weather: 20°
GW Depth: 3½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	ORANGE SILTY SAND	D	0	Y		P / F
06-12	TAN SILTY SAND					P / F
12-18	GREY LENS					P / F
18-24	DARK BROWN SILTY CLAY			MN		P / F
24-30						P / F
30-36		M				P / F
36-42	SILTY SAND, COBBLES	W	60			P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MR
Logged By: TYP
Changed from Staked Position:

Date: 11/11/14
Test Pit No: 3-289
Excavator: 308
Weather: 0°
GW Depth: 3½

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TOPSOILS, TAN & ORANGE SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18	DARK BROWN SILTY CLAY			N		P / F
18-24	LIGHT BROWN CLAY					P / F
24-30						P / F
30-36		M				P / F
36-42		W				P / F
42-48	GRAVELS COBBLES		40-60			(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: SULFUR SMELL

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NO PHOTOS, CAMERA BROKE
Logged By: TYP
Changed from Staked Position:

Date: 11/11/14
Test Pit No: 3-28W
Excavator: 308
Weather: 0°
GW Depth: >3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	0	0	N		P / F
06-12	SEG LIGHT GREY SILTY CLAY					P / F
12-18						P / F
18-24						P / F
24-30						P / F
30-36	SEG LIGHT BROWN CLAY					P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/10/14
Test Pit No: 3-292
Excavator: DNG [illegible]
Weather: 1 cloudy, ~35°F
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	LIGHT BROWN SILTY SAND	M	—	N		P / F
06-12	DARK GRAY SILT	M	—	N		P / F
12-18		M	—	N		P / F
18-24		M	—	N		P / F
24-30		M	—	N		P / F
30-36		M	—	N		P / F
36-42		M	—	N		P / F
42-48		M	—	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page 1 of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MMM PGHS
Changed from Staked Position:

Date: 12/10/14
Test Pit No: 2-293
Excavator: DAUGHERTY
Weather: CLOUDY, SNOW? (SE), 40°F
GW Depth: NOT ENCOUNTERED

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN ORGANIC LOAMY SILT	M	—	Y		P / F
06-12		M	—	Y		P / F
12-18	DARK GRAY SILT	M	—	N		P / F
18-24		M	—	N		P / F
24-30		M	—	N		P / F
30-36		M	—	N		P / F
36-42	DARK SILTY CLAY	M	—	N		(P) / F
42-48		M	—	N		(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position: STAKED 10' SOUTH (RIVER

Date: 12/18/14
Test Pit No: 3-294
Excavator: DAVE KIPP
Weather: CLOUDY ~20°F
GW Depth: 3.5"

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN SANDY SILT / ROOTS	M	—	N		P / F
06-12		M	—	N		P / F
12-18		M	—	N		P / F
18-24	DEBRIS (PLASTIC CUP) @ 2')	M	—	N		P / F
24-30		M	—	N		P / F
30-36		W	—	N		P / F
36-42	DARK GRAY SILT / ROOTS	W	—	N		P / F
42-48		W	—	N		P / F
48-54	GRAY SILTY SAND	W	—	N		P / F
54-60		W	—	N		P / F
60-66	BLOODISH BROWN SANDY GRAVEL CALCAREOUS NOT SAMPLED	W	~~30~~ 80 (cm)	N		P / F
66-72		W	~~30~~ 80 (cm)	N		P / F

Remarks:

Page 1 of 1

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/17/14
Test Pit No: 3-295
Excavator: DAVE KIPP
Weather: SUNNY, ~30°F
GW Depth: 3.5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	~~BRANGE~~ / LIGHT GRAY / BROWN MOTTLED SILT	M	—	Y		P / F
06-12		M	—	Y		P / F
12-18		M	—	Y		P / F
18-24		M	—	Y		P / F
24-30	GRAY SILT	M	—	N		P / F
30-36	GRAY SAND	W	—	N		P / F
36-42	GRAY GRAVELLY SAND	W	~~A~~ 30(MAX)	N		P / F
42-48	GRAY SANDY GRAVEL (ALLUVIUM)	W	~~20~~ 70(MAX)	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TM
Changed from Staked Position:

Date: 11/17/14
Test Pit No: 3-296
Excavator: 308
Weather: 10°
GW Depth: 4½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN, ORANGE SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18	LIGHT BROWN SILTY CLAY					P / F
18-24	DARK BROWN SILTY CLAY			N		P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48		M				P (F)
48-54	GRAVELS, COBBLES	W	40			P / F
54-60			60			P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NO PHOTO
Logged By: TYB
Changed from Staked Position:

Date: 11/18/14
Test Pit No: 3-296N
Excavator: 308
Weather: 50
GW Depth: 5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	30ILS	Ø	Ø	N		P / F
06-12	LIGHT BROWN SILTY CLAY					P / F
12-18						P / F
18-24	DARK BROWN SILTY CLAY					P / F
24-30						P / F
30-36						P / F
36-42	LIGHT BROWN SILTY SAND					P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/17/14
Test Pit No: 3-297
Excavator: 308
Weather: 100°
GW Depth: 5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN, ORANGE SILTY SAND	0	Ø	X		P / F
06-12						P / F
12-18	DARK BROWN SILTY CLAY			N		P / F
18-24	TAN FINE SAND					P / F
24-30						P / F
30-36						P / F
36-42	DARK TAN MEDIUM SAND. ORANGE LENS					P / F
42-48	, COBBLES		40			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NO PHOTO
Logged By: TYP
Changed from Staked Position:

Date: 11/18/14
Test Pit No: 3-297N
Excavator: 308
Weather: 100°
GW Depth: >2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	LIGHT TAN SILTY SAND	D	Ø	N		P / F
06-12	LIGHT BROWN SILTY CLAY	↓	↓	↓		P / F
12-18	↓	↓	↓	↓		P / F
18-24	↓	↓	↓	↓		(P) / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/10/14
Test Pit No: 3-298
Excavator: DAVE KEPP
Weather: CLOUDY, WINDY (SE) ~ 40°F
GW Depth: NOT ENCOUNTERED

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN YELLOW MOTTLED SILT	M	—	Y		P / F
06-12	↓	M	—	Y		P / F
12-18	DARK GRAY SILT	M	—	N		P / F
18-24	↓	M	—	N		P / F
24-30	↓	M	—	N		P / F
30-36	GRAY SANDY SILT	M	—	N		P / F
36-42	REDDISH BROWN/GRAY MOTTLED SILT	M	—	N		P / F
42-48	↓	M	—	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: Marie Peters
Changed from Staked Position:

Date: 12/10/14
Test Pit No: 3-264
Excavator: Dave Lipp
Weather: P. cloudy, 45°F
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	Brown/Gray/Orange mottled sandy silt	M	—	Y		P / F
06-12		M	—	Y		P / F
12-18		M	—	Y		P / F
18-24		M	—	Y		P / F
24-30		M	—	Y		P / F
30-36		M	—	Y		P / F
36-42	Gray silt	W	—	N		P / F
42-48		W	—	N		P / F
48-54	~~Sand with~~ Gravelly sand, gray	W	30cm	N		P / F
54-60		W	30cm	N		P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NO PHOTO
Logged By: TVP
Changed from Staked Position:

Date: 11/18/14
Test Pit No: 3-300
Excavator: 308
Weather: 10°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN & ORANGE SILTY SAND	D	0	Y		P / F
06-12						P / F
12-18	LIGHT BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30	TAN FINE SAND					P / F
30-36	LIGHT BROWN CLAY					P / F
36-42	GRAVELS & COBBLES	M	40			P / F
42-48		W	60			(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/10/14
Test Pit No: 3-301
Excavator: DAVE KEAP
Weather:
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN / GRAY / ORANGE SANDY SILT	M	—	Y		P / F
06-12		M	—	Y		P / F
12-18		M	—	Y		P / F
18-24		M	—	Y		P / F
24-30		M	—	Y		P / F
30-36	GRAY SILT	M	—	N		P / F
36-42		W	—	N		P / F
42-48		W	—	N		P / F
48-54	GRAY SANDY SILT W/ GRAVEL	W	5 55(mm)	N		P / F
54-60	GRAY SANDY GRAVEL (ALLUVIUM)	[illegible]	2 70(mm)	N		P / F
60-66						P / F
66-72						P / F

Remarks: FACIES CHANGE - SOUTH SIDE OF PIT GRAVELLY SAND 2-4' (CLOSED TO MINE)

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NO PHOTO
Logged By: TYP
Changed from Staked Position:

Date: 11/18/14
Test Pit No: 3-302
Excavator: 308
Weather: 10°
GW Depth: 1½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND SOILS	D	Ø	X		P / F
06-12		M				P / F
12-18	GREY SILTY CLAY, ORANGE LENS	W				P / F
18-24	DARK ~~GREY~~ CLAY BROWN			N		P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48	CLAY, MEDIUM SAND					P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED, WIDENED, UNSTABLE

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/20/14
Test Pit No: 3-303
Excavator: 308
Weather: 15°
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	ORANGE SILTY SAND	D	2	Y		P / F
06-12						P / F
12-18	GREY SILTY GREY					P / F
18-24	DARK BROWN SILTY CLAY			N		P / F
24-30		M				P / F
30-36	DAR BROWN CLAY	W				P / F
36-42	SILTY CLAY, COBBLES		40			P / F
42-48						(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/20/14
Test Pit No: 3-304
Excavator: 308
Weather: 15°
GW Depth: 23 1/2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, DARK TAN SILTY SAND	D	Ø	Y		P / F
06-12	TOP ORANGE SILTY SAND					P / F
12-18	LIGHT BROWN SILTY CLAY			N		P / F
18-24	DARK BROWN CLAY					P / F
24-30		M				P / F
30-36		W				P / F
36-42	GRAVELS, COBBLES		60			P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/21/14
Test Pit No: 3-305
Excavator: 308
Weather: 20°
GW Depth: 4½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, ORANGE SILTY SAND	D	0	Y		P / F
06-12	DARK BROWN SILTY CLAY			N		P / F
12-18						P / F
18-24	LIGHT BROWN CLAY					P / F
24-30						P / F
30-36						P / F
36-42	COBBLES, SILTY SAND		40			P / F
42-48		M				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETER
Changed from Staked Position:

Date: 12/10/14
Test Pit No: 3-309
Excavator: DAVE WIPP
Weather: CLOUDY, ~40°F
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	DARK/LIGHT BROWN BROTTLED SILT.	M	—	N		P / F
06-12	DARK GRAY SILT	M	—	N		P / F
12-18		M	—	N		P / F
18-24		M	—	N		P / F
24-30	GRAY SILTY CLAY WITH COARSE SAND SEAMS	M	—	N		P / F
30-36		M	—	N		P / F
36-42	GRAY COARSE SAND	W	—	N		P / F
42-48		W	—	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page 1 of 1

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: Mark Peters
Changed from Staked Position:

Date: 12/10/14
Test Pit No: ~~3-210~~ 3-310 (MP)
Excavator: [illegible]
Weather: Pickup, windy (SE), 45°F
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	Reddish Brown/Brown Silt	M	—	Y		P / F
06-12	Brown Silt	M	—	N		P / F
12-18		M	—	N		P / F
18-24	Light Brown Sandy Silt	M	—	N		P / F
24-30	Dark Gray Clayey Silt	M	—	N		P / F
30-36		M	—	N		P / F
36-42		M	—	N		(P) / F
42-48		W	—	N		(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page 1 of 1

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/10/17
Test Pit No: 2-311
Excavator: DAVE KIPP
Weather: P. CLOUDY, ~ 400F WINDY (E)
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN SILT	M	—	N		P / F
06-12		M	—	N		P / F
12-18		M (MM)	—	N		P / F
18-24	BROWN SAND, TRACE GREEN	M	—	N		P / F
24-30	GRAYISH BROWN SILTY CLAY	M	—	N		P / F
30-36		M	—	N		P / F
36-42		M	—	N		P / F
42-48	BROWN ~~GRAVELLY SAND~~ SANDY GRAVEL (ALLUVIUM)	W	~~1~~ 60 mp	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position: STAKED 5' SOUTH OF SURVEY LOC.

Date: 12/10/14
Test Pit No: 3-312
Excavator: DAVE [illegible]
Weather:
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN / GRAY / ORANGE MOTTLED SANDY SILT	M	—	Y		P / F
06-12		M	—	Y		P / F
12-18		M	—	Y		P / F
18-24		M	—	Y		P / F
24-30	GRAY SILT	M	—	N		P / F
30-36		M	—	N		P / F
36-42		W	—	N		P / F
42-48		W	—	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MANN PGTNS
Changed from Staked Position:

Date: 12/10/14
Test Pit No: 3-313
Excavator: DAVE KIPP
Weather: P. CLOUDY, ~ 45°F
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	~~ORANGE~~ BROWN SILT	M	—	(Y) N		P / F
06-12	ORANGE / BROWN / GRAY MOTTLED SILT	M	—	Y		P / F
12-18	↓	M	—	Y		P / F
18-24	↓	M	—	Y		P / F
24-30	GRAY SILT w/ REDDISH-BROWN MOTTLING ↓	M	—	Y		P / F
30-36	GRAY SILT ↓	M	—	N		P / F
36-42	↓	M	—	N		(P) / F
42-48	↓	W	—	N		(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/10/14
Test Pit No: 3-314
Excavator: DAVE NEPP.
Weather: P Cloudy ~45°F
GW Depth: 2.5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN/ORANGE/YELLOW MOTTLED SANDY SILT	M	—	Y		P / F
06-12	↓	M	—	Y		P / F
12-18	↓	M	—	Y		P / F
18-24	REDDISH-BROWN GRAVELLY SAND	M	—	N		P / F
24-30	↓	M	—	N		P / F
30-36	↓	M	—	N		P / F
36-42	BROWN SANDY GRAVEL; TRACE SILT SEAMS	W	— SO(m)	N		P / F
42-48	↓	W	~~TO~~ 60(m)	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: ALLUVIUM @ 4' BGS (SANDY GRAVEL, 30% MOD

Page 1 of 1

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NO PHOTO
Logged By: TYP
Changed from Staked Position:

Date: 11/18/14
Test Pit No: 3-315
Excavator: 308
Weather: 10°
GW Depth: 5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	ORANGE, TAN SILTY SAND	D	Ø	X		P / F
06-12						P / F
12-18						P / F
18-24	TAN SILTY CLAY					P / F
24-30	DARK BROWN ~~SI~~ CLAY			N		P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: SULFUR SMELL

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NO PHOTO
Logged By: ~~DRF~~ TYP
Changed from Staked Position:

Date: 11/18/14
Test Pit No: 3-315E
Excavator: 308
Weather: 20°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	0	Y		P / F
06-12						P / F
12-18	ORANGE SILTY CLAY, WHITE LENS					P / F
18-24	LIGHT GREY SILTY CLAY			N		P / F
24-30						P / F
30-36						P / F
36-42	LIGHT GREY CLAY, COBBLES	M	30			P / F
42-48		W	40			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NO PHOTO
Logged By: TYP
Changed from Staked Position:

Date: 11/18/14
Test Pit No: 3-315E2
Excavator: 308
Weather: 20°
GW Depth: >2

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, LIGHT BROWN SILTY SAND	Ø	Ø	N		P / F
06-12	LIGHT BROWN SILTY CLAY					P / F
12-18						P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/20/14
Test Pit No: 3-316
Excavator: 308
Weather: 15°
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND, SOILS	D	0	Y		P / F
06-12	LIGHT BROWN SILTY CLAY			N		P / F
12-18						P / F
18-24						P / F
24-30	LIGHT TAN SILTY CLAY, COBBLES		60			P / F
30-36	ORANGE SILTY SAND, COBBLES					P / F
36-42						P / F
42-48		M				~~P / F~~
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MD
Logged By: TAP
Changed from Staked Position:

Date: 11/20/14
Test Pit No: 3-317
Excavator: 308
Weather: 15°
GW Depth: ~~7~~ 2½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	0	Y		P / F
06-12	DARK BROWN SILTY CLAY	↓	↓	N		P / F
12-18	LIGHT BROWN SILTY CLAY	↓	↓	↓		P / F
18-24	↓	M	↓	↓		P / F
24-30	↓	W	↓	↓		P / F
30-36	MEDIUM SAND	↓	↓	↓		P / F
36-42	GRAVELS, COBBLES	↓	60	↓		P / F
42-48	↓	↓	↓	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By:
Changed from Staked Position:

Date: 11/20/14
Test Pit No: 3-318
Excavator: 308
Weather: 15°
GW Depth: 2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	Ø	Y		P / F
06-12	DARK BROWN SILTY CLAY	~~D~~ M	↓	N		P / F
12-18	GRAVELS, COBBLES	~~M~~ W	60	↓		P / F
18-24	↓	W	↓	↓		P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED, 2' DUE TO ALLUVIUM

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: Mark Peters
Changed from Staked Position:

Date: 12/ 11 /14
Test Pit No: 3-321
Excavator: Dave Ulrop
Weather: P. Cloudy
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	Light Brown Silt	M	—	N		P / F
06-12	Dark Gray Silt	M	—	N		P / F
12-18		M	—	N		P / F
18-24	Gray Silt	M	—	N		P / F
24-30		M	—	N		P / F
30-36	Gray Silty Clay	M	—	N		P / F
36-42		M	—	N		P / F
42-48		N	—	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page 1 of 1

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By:
Changed from Staked Position:

Date: 12/10/14
Test Pit No: 3-322
Excavator: DANC WIPP
Weather: P CLOUDY
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN SILT	M	—	N		P / F
06-12		M	—	N		P / F
12-18		M	—	N		P / F
18-24	DARK GRAY SILT	M	—	N		P / F
24-30		M	—	N		P / F
30-36		M	—	N		P / F
36-42		M	—	N		(P) / F
42-48	DARK GRAY CLY SAND (ALLUVIUM)	W	~~10~~ 60 cm	N		(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ( ) of ( )

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position: ≈30' NE (M now-stake mold)

Date: 12/18/14
Test Pit No: 323
Excavator: DAVE [illegible]
Weather: CLOUDY ≈20°F
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN SILT	M	—	N		P / F
06-12	↓	M	—	N		P / F
12-18	LIGHT GRAY / ORANGE MOTTLED SILT (TO ≈20")	M	—	Y		P / F
18-24	↓ DARK GRAY SILT	M	—	Y		P / F
24-30	↓	M	—	N		P / F
30-36	GRAY SILT	M	—	N		P / F
36-42	GRAY SILTY SAND	M	—	N		P / F
42-48	↓	W	—	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: SANDY GRAVEL @ BOTTOM OF HOLE (4')

Page 1 of 1

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERSON
Changed from Staked Position:

Date: 12/10/14
Test Pit No: 3-324
Excavator: DAVE HIPP
Weather: PC CLOUDY
GW Depth: 3.5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN SILT	M	—	~~Y~~ N (cm)		P / F
06-12	BROWN/ORANGE/GRAY MOTTLED SILT	M	—	Y		P / F
12-18	DARK GRAY SILT	M	—	N		P / F
18-24		M	—	N		P / F
24-30	GRAY SILTY CLAY	M	—	N		P / F
30-36		M	—	N		P / F
36-42	SANDY GRAVEL (GRAY)	W	— SOM	Y		P / F
42-48		W	— SOM	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page 1 of 1

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/10/14
Test Pit No: 3-325
Excavator: DANG NIPP
Weather: P. CLOUDY, WINDY (G)
GW Depth: 21

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN/YELLOW/ORANGE MOTTLED SILT	M	—	Y		P / F
06-12	GRAY SILT	M	—	N		P / F
12-18	↓	M	—	N		P / F
18-24	↓	M	—	N		P / F
24-30	BROWNISH-GRAY SILTY SAND	M	—	N		P / F
30-36	BROWN GRAVELLY SAND	W	— 30 (cm)	N		P / F
36-42	↓	W	— 34 (cm)	N		(P) / F
42-48	↓	W	— 36 (cm)	N		(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position: 15' EAST (STAKE IN RIVER
Date: 12/10/14
Test Pit No: 3-32L
Excavator: DAVE HIPP
Weather: P. CLOUDY, ~45°F
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN SILTY SAND	M	—	N		P / F
06-12		M	—	N		P / F
12-18		M	—	N		P / F
18-24		M	—	N		P / F
24-30		M	—	N		P / F
30-36	COARSE REDDISH BROWN SAND, TRACE GRAVEL	W	— 5cm	N		P / F
36-42		W	— 5cm	N		P / F
42-48		W	— 5cm	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: SANDY GRAVEL ALLUVIUM, ~20% ROCK AT 41 BGS

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/10/14
Test Pit No: 3-327
Excavator: DAVE HIPPO
Weather: P. CLOUDY
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	LIGHT GRAY/ORANGE/BROWN MOTTLED SILT	M	—	Y		P / F
06-12	↓	M	—	Y		P / F
12-18	↓	M	—	Y		P / F
18-24	BROWN/GRAY MOTTLED SILT	M	—	N		P / F
24-30	DARK GRAY SILT	M	—	N		P / F
30-36	↓	M	—	N		P / F
36-42	↓	W	—	N		P / F
42-48	GRAY GRAVELLY SAND	W	—30 lbs	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/10/14
Test Pit No: 3-328
Excavator: DAVE KIPP
Weather: B, CLOUDY, ~
GW Depth: 3

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	YELLOW / ORANGE / REDDISH BROWN MOTTLED SILT	M	—	Y		P / F
06-12	↓	M	—	Y		P / F
12-18	GRAY / BROWN / YELLOW MOTTLED SILT	M	—	Y		P / F
18-24	↓	M	—	Y		P / F
24-30	DARK GRAY SILT MOTTLED W/ LT. YELLOW	M	—	Y		P / F
30-36	DARK GRAY SILT	M	—	N		P / F
36-42	GRAY SANDY SILT	W	—	N		P / F
42-48	GRAVELLY SAND	W	~~TO~~ 40(mm)	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: ALLUVIUM, ~60% ROCK @ 4' BGS

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NO PHOTO
Logged By: TYP
Changed from Staked Position:

Date: 11/18/14
Test Pit No: 3-329
Excavator: 308
Weather: 20'
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	0	Y		P / F
06-12						P / F
12-18	ORANGE SILTY CLAY					P / F
18-24						P / F
24-30	GREY SILTY CLAY			N		P / F
30-36	, ORANGE LENS					P / F
36-42	LIGHT BROWN CLAY	M				P / F
42-48		W				P / F
48-54	, COBBLES		40			P / F
54-60	GRAVELS, COBBLES		60			P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NO PHOTO
Logged By: TVP
Changed from Staked Position:

Date: 11/18/14
Test Pit No: 3-329E
Excavator: 308
Weather: 15
GW Depth: 4½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN & ORANGE SILTY SAND	D	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	↓	↓	↓	↓		P / F
18-24	DARK BROWN SILTY CLAY	↓	↓	N		P / F
24-30	↓	↓	↓	↓		P / F
30-36	LIGHT TAN SILTY SAND	↓	↓	↓		P / F
36-42	↓	↓	↓	↓		P / F
42-48	↓, COBBLES	↓	40	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TVP
Changed from Staked Position:

Date: 11/19/14
Test Pit No: 3-329W
Excavator: 308
Weather: 10°
GW Depth: 3½

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	0			P / F
06-12						P / F
12-18	LIGHT BROWN SILTY CLAY					P / F
18-24						P / F
24-30		M				P / F
30-36		W				P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/19/14
Test Pit No: 3-32962
Excavator: 308
Weather: 15°
GW Depth: 5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SILTY SOIL	0	0	N		P / F
06-12	LIGHT BROWN SILTY CLAY					P / F
12-18						P / F
18-24	DARK BROWN CLAY					P / F
24-30						P / F
30-36						P / F
36-42	BROWN SILTY SAND					P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NO PHOTO
Logged By: TYP
Changed from Staked Position:

Date: 11/18/14
Test Pit No: 3-330
Excavator: 308
Weather: 15°
GW Depth: 3½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18	DARK BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30	LIGHT BROWN CLAY					P / F
30-36		M				P / F
36-42		W				P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TKP
Changed from Staked Position:

Date: 11/20/14
Test Pit No: 3-331
Excavator: 308
Weather: 20°
GW Depth: 3½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18	DARK BROWN SILTY CLAY			N		P / F
18-24	LIGHT BROWN CLAY					P / F
24-30		M				P / F
30-36		W				P / F
36-42	BROWN MEDIUM SAND					P / F
42-48						Ø / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/20/14
Test Pit No: 3-332
Excavator: 308
Weather: 20
GW Depth: 3½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	8	Y		P / F
06-12	DARK BROWN SILTY CLAY			N		P / F
12-18						P / F
18-24	LIGHT BROWN CLAY					P / F
24-30		M				P / F
30-36		W				P / F
36-42	SILTY CLAY					P / F
42-48	SILTY SAND					P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/20/14
Test Pit No: 3-333
Excavator: 308
Weather: 20°
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	Ø	Y		P / F
06-12	LIGHT BROWN SILTY CLAY	M		N		P / F
12-18		W				P / F
18-24						P / F
24-30						P / F
30-36	SILTY SAND					P / F
36-42						P / F
42-48	, COBBLES		40			(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: ~~JMP~~
Logged By: TJP
Changed from Staked Position:

Date: 11/20/14
Test Pit No: 3-333W
Excavator: 308
Weather: 15°
GW Depth: >25'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	D	Ø	N		P / F
06-12	LIGHT GREY SILTY CLAY	↓	↓	↓		P / F
12-18	↓	↓	↓	↓		P / F
18-24		↓	↓	↓		(P) / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 12/23/14
Test Pit No: 3-334
Excavator: 308
Weather: 30°
GW Depth: 4½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND, ORANGE LENS	D	Ø	Y		P / F
06-12	BROWN SILTY CLAY			N		P / F
12-18	, ORANGE LENS					P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42	GREY COARSE SAND	M				P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/17/14
Test Pit No: 3-335
Excavator: [illegible]
Weather: P. CLOUDY, ~25°F
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	LIGHT BROWN SILTY SAND (109")	M	—	~~Y~~/N		P / F
06-12	DARK GRAY SILT	M	—	~~Y~~/N		P / F
12-18		M	—	N		P / F
18-24		M	—	N		P / F
24-30	DARK GRAY SILTY SAND	M	—	N		P / F
30-36		M	—	N		P / F
36-42		M	—	N		P / F
42-48	SANDY GRAVEL	W	— TO(N)	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page 1 of 1

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/11/14
Test Pit No: 3-336
Excavator: Dave Urpe
Weather: P. CLOUDY, ≈ 45°F
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN SILT	M	—	N		P / F
06-12	LIGHT BROWN/ OR ANGE MOTTLED SILT	M	—	N		P / F
12-18	DARK GRAY SILT	M	—	N		P / F
18-24		M	—	N		P / F
24-30	GRAY SILTY CLAY	M	—	N		P / F
30-36		M	—	N		(P) / F
36-42	GRAY SILT / SAND SEAMS.	M	—	N		(P) / F
42-48	GRAY SILT / WOOD FRAGMENTS	W	—	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: COBBLES @ BOTTOM OF HOLE (4.5' BGS.)

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 12/22/14
Test Pit No: 3-337
Excavator: 308
Weather: 32°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, BROWN SILTY CLAY	D	Ø	N		P / F
06-12	GRAVELS, COBBLES		60			P / F
12-18						P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42		M				P / F
42-48	BROWN FINE SAND	W	Ø			P / F
48-54	GRAVELS, COBBLES		60			P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position: ≈ 15' EAST (IN EMBANKMENT)

Date: 12/18/14
Test Pit No: 2-338
Excavator: DAVE WIPP
Weather: CLOUDY, ~20°F
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN SILT	M	—	N		P / F
06-12	LIGHT BROWN / ORANGE MOTTLED SILT	M	—	Y		P / F
12-18		M	—	Y		P / F
18-24	DARK GRAY SILTY CLAY	M	—	N		P / F
24-30		M	—	N		P / F
30-36		M	—	N		P / F
36-42		M	—	N		P / F
42-48		M	—	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: SILTY SAND @ BOTTOM OF HOLE (4')

Page 1 of 1

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 12/23/14
Test Pit No: 3-339
Excavator: 308
Weather: 25°
GW Depth: 4'12'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18	ORANGE SILTY SAND					P / F
18-24						P / F
24-30						P / F
30-36	DARK BROWN SILTY CLAY			N		P / F
36-42	, COBBLES		40			P / F
42-48	, GRAVEL		60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: SLICKEN AREA

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETRS
Changed from Staked Position:

Date: 12/10/14
Test Pit No: 3-340
Excavator: PAUL [illegible]
Weather: CLOUDY, WINDY (E), [illegible]
GW Depth: 4"

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	LIGHT BROWN/ GRAY/ ORANGE MOTTLED SILT	M	—	Y		P / F
06-12	↓	M	—	Y		P / F
12-18	↓	M	—	Y		P / F
18-24	REDDISH BROWN TO ORANGE SAND	M	—	Y		P / F
24-30	GRAY SILT	M	—	N		P / F
30-36	↓	M	—	N		P / F
36-42	↓	W	—	N		P / F
42-48	GRAY COARSE SAND	W	—	N		P / F
48-54	SANDY GRAVEL	W	— 50cm	N		P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/10/14
Test Pit No: 3-341
Excavator: DAVE KIPP
Weather: CLOUDY, 4400
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN/ORANGE MOTTLED SILT	M	—	Y		P / F
06-12		M	—	Y		P / F
12-18	GRAY/BROWN MOTTLED SILT	M	—	N		P / F
18-24	REDDISH BROWN TO GRAY SAND	M	—	N		P / F
24-30		M	—	N		P / F
30-36		M	—	N		P / F
36-42		W	—	N		P / F
42-48	GRAY SANDY GRAVEL	W	— 50(m)	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: ALLUVIUM (SANDY GRAVEL, ≈70% ROCK) @ 4' BGS.

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 12/23/14
Test Pit No: 3-342
Excavator: 308
Weather: 30°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, BROWN SILTY CLAY	D	Ø	N		P / F
06-12						P / F
12-18	TAN SILTY SAND, ORANGE LENS			Y		P / F
18-24						P / F
24-30	DARK BROWN SILTY CLAY			N		P / F
30-36						P / F
36-42		M				P / F
42-48		W				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: ~~TP~~ NO PHOTO
Logged By: TYP
Changed from Staked Position:

Date: 11/18/14
Test Pit No: 3-343
Excavator: 308
Weather: 15°
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOIL TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18	LIGHT BROWN SILTY SAND			N		P / F
18-24						P / F
24-30		M				P / F
30-36	G MEDIUM SAND	W				P / F
36-42			40			P / F
42-48	GRAVELS					(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 1/19/14
Test Pit No: 3-343E
Excavator: 308
Weather: 10°
GW Depth: >2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, DARK TAN SILTY SAND	D	D	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	DARK BROWN SILTY CLAY			N		P / F
18-24	↓	↓	↓	↓		P / F
24-30				↓		P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/19/14
Test Pit No: 3-343E2
Excavator: 308
Weather: 10°
GW Depth: 2'

Depth (In)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SILTY SOILS	D	Ø	N		P / F
06-12	SILTY CLAY	↓	↓	↓		P / F
12-18	↓	M	↓	↓		P / F
18-24	MEDIUM SAND	W	↓	↓		(P) / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TJP
Changed from Staked Position:

Date: 11/19/14
Test Pit No: 3-343W
Excavator: 308
Weather: 100
GW Depth: >2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	0	0	X		P / F
06-12	DARK BROWN SILTY CLAY			N		P / F
12-18						P / F
18-24						(P) / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NO PHOTO
Logged By: TYP
Changed from Staked Position:

Date: 11/18/14
Test Pit No: 3-344
Excavator: 308
Weather: 100
GW Depth: 41

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	0	Y		P / F
06-12	DARK BROWN SILTY CLAY			N		P / F
12-18	LIGHT BROWN CLAY					P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42	LIGHT BROWN SILTY SAND	M				P / F
42-48	, COBBLES	W	40			(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/20/14
Test Pit No: 3-345
Excavator: 308
Weather: 20'
GW Depth: 3½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18	DARK BROWN SILTY CLAY			N		P / F
18-24	LIGHT BROWN CLAY					P / F
24-30		M				P / F
30-36	LIGHT BROWN SILTY SAND	W				P / F
36-42						P / F
42-48	, COBBLES		40			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/20/14
Test Pit No: 3-346
Excavator: 308
Weather: 20°
GW Depth: 4½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	Ø	X		P / F
06-12						P / F
12-18						P / F
18-24	DARK BROWN SILTY CLAY			N		P / F
24-30	LIGHT BROWN CLAY					P / F
30-36						P / F
36-42						P / F
42-48	GRAVELS, COBBLES		60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TW
Changed from Staked Position:

Date: 11/20/14
Test Pit No: 3-347
Excavator: 308
Weather: 20°
GW Depth: 3½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND, SOILS	D	Ø	Y		P / F
06-12						P / F
12-18	DARK BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30	DARK BROWN SILTY SAND	M				P / F
30-36		W				P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/11/14
Test Pit No: 3-348
Excavator: DAVE NIPP
Weather: CLOUDY, ~40°F.
GW Depth: NOT ENCOUNTERED

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN SILT	M	—	N		P / F
06-12		M	—	N		P / F
12-18	BROWN/ORANGE MOTTLED SILT	M	—	Y		P / F
18-24	GRAY SILT	M	—	N		P / F
24-30		M	—	N		P / F
30-36	GRAY SILTY CLAY	M	—	N		P / F
36-42		M	—	N		P / F
42-48		M	—	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/17/14
Test Pit No: 3348E
Excavator: DAVE KIPP
Weather: CLOUDY, ~30°F
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	LIGHT BROWN SILT	M	—	Y		P / F
06-12		M	—	Y		P / F
12-18	GRAY CLAYEY SILT	M	—	N		P / F
18-24		M	—	N		P / F
24-30	GRAY SILTY SAND	M	—	N		P / F
30-36		M	—	N		P / F
36-42	GRAY SILT	M	—	N		P / F
42-48		W	—	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: Mark Peters
Changed from Staked Position:

Date: 12/17/14
Test Pit No: 3-348 E2
Excavator: [illegible]
Weather: Cloudy, ~20°F
GW Depth: 2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	Dark Brown Silt	M	—	N		P / F
06-12	Brown Clayey Silt	M	—	N		P / F
12-18		M	—	N		P / F
18-24	Gray Sand	W	—	N		P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: Gravel @ 24"

Page 1 of 1

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 12/22/14
Test Pit No: 3-349
Excavator: 308
Weather: 32°
GW Depth: 3 1/2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18	GRAVELY SAND			N		P / F
18-24						P / F
24-30						P / F
30-36		M	30			P / F
36-42	, COBBLES	W	40			P / F
42-48			60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/10/14
Test Pit No: 3-350
Excavator: DANE KEPP
Weather: CLOUDY, ANGOR
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN/ORANGE MOTTLED SILT	M	—	Y		P / F
06-12	~~BROWN TO REDDISH-BROWN~~ (MP)	M	—	Y		P / F
12-18	BROWN TO REDDISH-BROWN SILTY SAND	M	—	N		P / F
18-24		M	—	N		P / F
24-30		M	—	N		P / F
30-36		M	—	N		P / F
36-42	SANDY GRAVEL, BROWN	W	~~[illegible]~~	N		P / F
42-48	(ALLUVIUM @ 3.5')	W	~~10~~ 60 (MP)	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 12/23/14
Test Pit No: 3-351
Excavator: 308
Weather: 30°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18	ORANGE, GREY SILTY SAND					P / F
18-24						P / F
24-30	DARK BROWN SILTY CLAY			N		P / F
30-36						P / F
36-42		M				P / F
42-48	GRAVELS, COBBLES	W	60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: SLICKEN AREA

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 12/23/14
Test Pit No: 3-352
Excavator: 308
Weather: 30°
GW Depth: 3½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	0	Y		P / F
06-12	ORANGE SILTY SAND					P / F
12-18						P / F
18-24	GREY, ORANGE SILTY CLAY					P / F
24-30	BROWN SILTY CLAY			N		P / F
30-36		M				P / F
36-42		W				P / F
42-48						P / F
48-54	COARSE SAND					P / F
54-60	COBBLES		50			P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 12/23/14
Test Pit No: 3-353
Excavator: 308
Weather: 30°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	0	Y		P / F
06-12	DARK BROWN SILTY CLAY			N		P / F
12-18						P / F
18-24						P / F
24-30	LIGHT BROWN CLAY					P / F
30-36						P / F
36-42	COARSE GRAVEL	M	40			P / F
42-48	, COBBLES	W				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Date: 12/23/14
Contractor: Jordan Construction
Test Pit No: 3-353W
Photo ID: MP
Excavator: 308
Logged By: TYP
Weather: 30°
Changed from Staked Position:
GW Depth: >2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	0	0	Y		P / F
06-12	DARK BROWN SILTY CLAY	↓	↓	N		P / F
12-18	↓	↓	↓	↓		P / F
18-24	↓	↓	↓	↓		P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/19/14
Test Pit No: 3-354
Excavator: 308
Weather: 10°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18	LIGHT BROWN CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42		M				P / F
42-48		W				(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/19/14
Test Pit No: 3-355
Excavator: 388
Weather: 20
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	Ø	Y		P / F
06-12	LIGHT BROWN SILTY CLAY					P / F
12-18				N		P / F
18-24	LIGHT GREY CLAY					P / F
24-30						P / F
30-36			30			P / F
36-42	LIGHT BROWN SILTY CLAY, COBBLES	M	40-60			P / F
42-48		W				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: 4MP
Logged By: TYP
Changed from Staked Position:

Date: 12/23/14
Test Pit No: 3-356
Excavator: 308
Weather: 30°
GW Depth: 3½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	O	Ø	Y		P / F
06-12				N		P / F
12-18						P / F
18-24	BROWN SILTY CLAY					P / F
24-30						P / F
30-36		M				P / F
36-42	GRAVELS, COBBLES	W	60			P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/20/14
Test Pit No: 3-357
Excavator: 308
Weather: 10°
GW Depth: 4½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	0	Y		P / F
06-12	DARK BROWN SILTY CLAY			N		P / F
12-18	LIGHT BROWN CLAY					P / F
18-24						P / F
24-30						P / F
30-36	TAN SILTY CLAY					P / F
36-42	COBBLES		40			P / F
42-48			60			(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

4'-7
2'-1

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/20/14
Test Pit No: 3-358
Excavator: 358
Weather: 20'
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN, ORANGE SILTY SAND	D	0	Y		P / F
06-12						P / F
12-18	DARK BROWN SILTY CLAY			N		P / F
18-24	LIGHT BROWN CLAY					P / F
24-30		M				P / F
30-36		W				P / F
36-42	GRAVELLY SAND		40			P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/20/14
Test Pit No: 3-358N
Excavator: 308
Weather: 20°
GW Depth: >2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	0	0	Y		P / F
06-12	LIGHT BROWN SILTY CLAY, TAN LENS	↓	↓	↓		P / F
12-18	SILTY SAND			N		P / F
18-24	↓	↓	↓	↓		P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/20/14
Test Pit No: 3-358W
Excavator: 308
Weather: 20
GW Depth: 2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	0	Y		P / F
06-12	DARK BROWN SILTY CLAY			N		P / F
12-18	↓					P / F
18-24	LIGHT BROWN CLAY	M	↓	↓		P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TW
Changed from Staked Position:

Date: 11/20/14
Test Pit No: 3-358W2
Excavator: 308
Weather: 15°
GW Depth: >2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	0	Y		P / F
06-12	DARK BROWN SILTY CLAY	↓	↓	N		P / F
12-18	↓	↓	↓	↓		P / F
18-24	LIGHT BROWN CLAY	↓	↓	↓		P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 12/22/14
Test Pit No: 3-359
Excavator: 308
Weather: 32°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18	DARK BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36	LIGHT BROWN CLAY					P / F
36-42		M				P / F
42-48		W				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position: ~~24' [illegible]~~ STAKED 24' WEST (DIVER)

Date: 12/11/14
Test Pit No: 3-360
Excavator: DAVE KEAP
Weather: CLOUDY, MUDDY
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN SILT	M	—	N		P / F
06-12	BROWN / YELLOW / ORANGE MOTTLED SILT	M	—	Y		P / F
12-18	↓	M	—	Y		P / F
18-24	DARK GRAY SILT	M	—	N		P / F
24-30	↓	M	—	N		P / F
30-36	↓	M	—	N		P / F
36-42	GRAY SILTY CLAY	M	—	N		P / F
42-48	↓	M	—	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: SANDY GRAVEL ALLUVIUM (~~20%~~ 70 (MF) MOUNT) AT BOTTOM OF HOLE (4' BGS)

Page 1 of 1

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/17/14
Test Pit No: 3-360E
Excavator: DAVE NIAO
Weather: CLOUDY, ~20°F
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN/YELLOW MOTTLED	M	—	Y		P / F
06-12	↓	M	—	Y		P / F
12-18	DARK GRAY SILT	M	—	N		P / F
18-24	↓	M	—	N		P / F
24-30	BROWN SILTY SAND	M	—	N		P / F
30-36	~~GRAY SILTY CLAY~~ ↓	M	—	N		P / F
36-42	GRAY SILTY CLAY	W	—	N		P / F
42-48	GRAY SAND	W	—	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 12/22/14
Test Pit No: 3-361
Excavator: 308
Weather: 35°
GW Depth: 4 1/2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, ORANGE SILTY SAND	O	0	Y		P / F
06-12	TAN SILTY SAND, ORANGE SILTY SAND	↓	↓	↓		P / F
12-18	↓	↓	↓	↓		P / F
18-24	↓	↓	↓	↓		P / F
24-30	DARK BROWN SILTY CLAY	↓	↓	N		P / F
30-36	↓	↓	↓	↓		P / F
36-42	↓	↓	↓	↓		P / F
42-48	↓	↓	↓	↓		P / F
48-54	GRAVELS, COBBLES	M	60	↓		P / F
54-60	↓	W	↓	↓		P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 12/22/14
Test Pit No: 3-362
Excavator: 308
Weather: 35°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, ORANGE SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18						P / F
18-24						P / F
24-30	LIGHT BROWN CLAY, ORANGE LENS					P / F
30-36				N		P / F
36-42	~~LIGHT~~ BROWN CLAY	M				P / F
42-48		W				P / F
48-54	GRAVELS, COBBLES					P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4 **Date:** 11/19/14
Contractor: Jordan Construction **Test Pit No:** 3-363
Photo ID: MP **Excavator:** 308
Logged By: TYP **Weather:** 100
Changed from Staked Position: **GW Depth:** 41

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	0	Y		P / F
06-12						P / F
12-18	ORANGE SILTY CLAY					P / F
18-24	DARK BROWN SILTY CLAY			N		P / F
24-30						P / F
30-36						P / F
36-42	MEDIUM SAND	M				P / F
42-48		W				P / F
48-54						P / F
54-60	SAND, COBBLES		40			P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYB
Changed from Staked Position:

Date: 11/19/14
Test Pit No: 3-36E
Excavator: 308
Weather: 15°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, SILTY SAND, BROWN	D	Ø	N		P / F
06-12	LIGHT BROWN SILTY CLAY					P / F
12-18						P / F
18-24						P / F
24-30	LIGHT BROWN CLAY					P / F
30-36						P / F
36-42		M				P / F
42-48	SILTY SAND	W				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: SULFUR SMELL

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/19/14
Test Pit No: 3-363 W
Excavator: 308
Weather: 30°
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18	DARK BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30		M				P / F
30-36	TAN GRAVELY SAND	W	40			P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/19/14
Test Pit No: 3-364
Excavator: 308
Weather: 20'
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	0	N		P / F
06-12	DARK TAN SILTY CLAY					P / F
12-18						P / F
18-24						P / F
24-30	LIGHT TAN CLAY					P / F
30-36						P / F
36-42	LIGHT BROWN CLAY, COBBLES	M	40-60			P / F
42-48						(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/20/14
Test Pit No: 3-365
Excavator: 308
Weather: 10°
GW Depth: 4½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	Ø	N		P / F
06-12	DARK BROWN SILTY CLAY					P / F
12-18						P / F
18-24	LIGHT BROWN CLAY					P / F
24-30						P / F
30-36						P / F
36-42	ORANGE TINT GRAVELLY SAND. COBBLES		40			P / F
42-48		M	60			~~P~~ / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: ~~3-366~~ MP
Logged By: TYP
Changed from Staked Position:

Date: 12/22/14
Test Pit No: 3-366
Excavator: 308
Weather: 32°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	ORANGE SILTY SAND	D	0	Y		P / F
06-12						P / F
12-18	LIGHT BROWN CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36	DARK BROWN SILTY CLAY					P / F
36-42		M				P / F
42-48		W				P / F
48-54	GRAVELS, COBBLES		60			P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED, SLICKEN AREA

Page _

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/15/14
Test Pit No: 3-367
Excavator: DAVE KIPP
Weather: CLOUDY ~20°F
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN SAND	M	—	N		P / F
06-12	↓	M	—	N		P / F
12-18	GRAY SILT	M	—	N		P / F
18-24	BROWNISH GRAY SILT	M	—	N		P / F
24-30	↓	M	—	N		P / F
30-36	↓	M	—	N		P / F
36-42	SILTY SAND	W	—	N		P / F
42-48	↓	W	—	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

~~IIII~~ ~~IIII~~ III

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 12/22/14
Test Pit No: 3-368
Excavator: 308
Weather: 35°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, ORANGE SILTY SAND	D	Ø	Y		P / F
06-12	LIGHT BROWN SILTY CLAY			N		P / F
12-18						P / F
18-24	DARK BROWN SILTY CLAY					P / F
24-30						P / F
30-36						P / F
36-42		M				P / F
42-48		W				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Date: 12/23/14
Contractor: Jordan Construction
Test Pit No: 3-368w
Photo ID: MP
Excavator: 308
Logged By: TYP
Weather: 30°
Changed from Staked Position:
GW Depth: >2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	0	0	Y		P / F
06-12	DARK BROWN SILTY CLAY			N		P / F
12-18						P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 12/23/14
Test Pit No: 3-368W2
Excavator: 308
Weather: 30°
GW Depth: >2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, COBBLES	0	30	N		P / F
06-12	DARK BROWN SILTY CLAY		0			P / F
12-18						P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/11/14
Test Pit No: 3-369
Excavator: DAVE WARP
Weather: CLOUDY, 40°F
GW Depth: 41'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	ORANGE/BROWN/GREEN MOTTLED SILTY SAND	M	—	Y		P / F
06-12	↓	M	—	Y		P / F
12-18	GRAY SILT	M	—	N		P / F
18-24	↓	M	—	N		P / F
24-30	↓	M	—	N		P / F
30-36	GRAY/BROWN/MOOSEY-BROWN SAND	M	—	N		P / F
36-42	↓	M	—	N		(P) / F
42-48	↓	W	—	N		(P) / F
48-54						P / F
54-60						P / F
60-66						(P) / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/19/14
Test Pit No: 3-370
Excavator: 308
Weather: 20°
GW Depth: 4½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN, ORANGE SILTY SAND	D	Ø	X		P / F
06-12						P / F
12-18	ORANGE SILTY CLAY					P / F
18-24	LIGHT BROWN SILTY CLAY			N		P / F
24-30						P / F
30-36						P / F
36-42	DARK BROWN CLAY					P / F
42-48						(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/19/14
Test Pit No: 3-370N
Excavator: 308
Weather: 20°
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	Ø	N		P / F
06-12	DARK BROWN SILTY CLAY					P / F
12-18						P / F
18-24						P / F
24-30	, COBBLES	M	40			P / F
30-36		W				(P) / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/19/14
Test Pit No: 3-370 E
Excavator: 308
Weather: 15°
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SOIL	D	Ø	N		P / F
06-12	DARK BROWN SILTY CLAY					P / F
12-18						P / F
18-24	LIGHT BROWN CLAY					P / F
24-30		M				P / F
30-36		W				P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/19/14
Test Pit No: 3-371
Excavator: 308
Weather: 20°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	Ø	Y		P / F
06-12	ORANGE SILTY SAND					P / F
12-18						P / F
18-24	DARK BROWN SILTY CLAY			N		P / F
24-30						P / F
30-36						P / F
36-42	LIGHT BROWN CLAY	M				P / F
42-48		W				~~P / F~~
48-54	COARSE GRAVELLY SAND, COBBLES		40			P / F
54-60			60			P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/19/14
Test Pit No: 3-371N
Excavator: 308
Weather: 20°
GW Depth: 3½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, SILTY	D	Ø	N		P / F
06-12	SILTY CLAY					P / F
12-18						P / F
18-24						P / F
24-30	ORANGE SILTY CLAY, COBBLES		40-60	Y		P / F
30-36		M				P / F
36-42		W				P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TJP
Changed from Staked Position:

Date: 11/19/14
Test Pit No: 3-372
Excavator: 308
Weather: 25°
GW Depth:

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN, ORANGE SILTY SAND	D	Ø	Y		P / F
06-12		↓	↓	↓		P / F
12-18	, GREY LENS	M				P / F
18-24	DARK BROWN SILTY CLAY	W		N		P / F
24-30						P / F
30-36						P / F
36-42	COARSE GRAVEL		40			P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/19/14
Test Pit No: 3-372N
Excavator: 308
Weather: 20°
GW Depth: 3½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SOIL	P	0	N		P / F
06-12	DARK BROWN SILTY CLAY					P / F
12-18						P / F
18-24	TAN SILTY CLAY					P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: Mark Peters
Changed from Staked Position: Staked 6' East (river)

Date: 12/11/14
Test Pit No: 3-373
Excavator: Dave Kipp
Weather: Cloudy, ~40°F
GW Depth: 3.5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	Yellow/orange/brown mottled silt	M	—	Y		P / F
06-12	↓	M	—	Y		P / F
12-18	↓	M	—	Y		P / F
18-24	↓	M	—	Y		P / F
24-30	Gray silty clay	M	—	N		P / F
30-36	Brown silty sand	M	—	N		P / F
36-42	Gravelly sand (brown)	W	— 30 (mm)	N		P / F
42-48	Sandy gravel (brown) (alluvium	W	~~20~~ 70 mm	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/20/14
Test Pit No: 3-374
Excavator: 308
Weather: 15°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	Ø	Y		P / F
06-12	DARK BROWN SILTY CLAY			N		P / F
12-18						P / F
18-24	LIGHT BROWN CLAY					P / F
24-30						P / F
30-36						P / F
36-42	GRAVELS, COBBLES	M	40-60			P / F
42-48		W				(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DELAYERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 12/22/14
Test Pit No: 3-375
Excavator: 308
Weather: 35°
GW Depth: 3½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	ORANGE SILTY SAND	O	Ø	Y		P / F
06-12						P / F
12-18						P / F
18-24	DARK BROWN SILTY CLAY			N		P / F
24-30						P / F
30-36		M				P / F
36-42	COARSE SAND	W				P / F
42-48	GRAVELS, COBBLES		40			P / F
48-54						P / F
54-60						P / F
[illegible]						P / F
						P / F

[illegible]ERED, SLICKEN AREA

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/15/14
Test Pit No: 3-376
Excavator: DAVE [illegible]
Weather: D. CLOUDY, ~20°F
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN SILT	M	—	N		P / F
06-12		M	—	N		P / F
12-18		M	—	N		P / F
18-24	BROWN COARSE SAND	M	—	N		P / F
24-30	GRAY SILT	M	—	N		P / F
30-36	DARK GRAY SILTY CLAY	M	—	N		P / F
36-42		W	—	N		P / F
42-48		W	—	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/17/14
Test Pit No: 3-376 S
Excavator: DAVE WOOD
Weather: CLOUDY, ~ 20°F
GW Depth:

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN SILT SAND	M	—	N		P / F
06-12	GRAYISH-BROWN SILT	M	—	N		P / F
12-18		M	—	N		P / F
18-24	GRAY SILTY CLAY	M	—	N		P / F
24-30		M	—	N		P / F
30-36		M	—	N		P / F
36-42		W	—	N		P / F
42-48	GRAY SANDY GRAVEL (ALLUVIUM	W	~~10~~ 60(m)	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page 1 of 1

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/17/14
Test Pit No: 3-376E
Excavator: [illegible]
Weather: CLOUDY ~ 20° F
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	ORANGE / BROWN MOTTLED SILT	M	—	Y		P / F
06-12		M	—	Y		P / F
12-18	BROWN / GRAY MOTTLED SILT	M	—	N		P / F
18-24		M	—	N		P / F
24-30	GRAY CLAYEY SILT	M	—	N		P / F
30-36		M	—	N		P / F
36-42		M	—	N		P / F
42-48		W	—	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/17/14
Test Pit No: 3-376 S/E
Excavator: DAVE KEPP
Weather: CLOUDY, ~20°F
GW Depth: 41

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	ORANGE / BROWN MOTTLED SILT	M	—	Y		P / F
06-12		M	—	Y		P / F
12-18	GRAYISH BROWN SILT, 12-13" TAILINGS	M	—	~~N~~ Y		P / F
18-24	GRAY SILT	M	—	N		P / F
24-30		M	—	N		P / F
30-36		M	—	N		P / F
36-42	GRAY SAND	M	—	N		P / F
42-48	GRAY SANDY GRAVEL	W	— 50%	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETTIS
Changed from Staked Position:

Date: 12/17/14
Test Pit No: 3-3765/E2
Excavator: DAVE WEAR
Weather: CLOUDY ~200F
GW Depth: NOT ENCOUNTERED

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN/YELLOW MOTTLED SILT	M	—	Y		P / F
06-12	GRAY SILT	M	—	N		P / F
12-18	BROWN SILTY SAND	M	—	N		P / F
18-24	GRAY SILT	M	—	N		P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/17/14
Test Pit No: 3-376E2
Excavator: DAVE PREAP
Weather: CLOUDY MOON
GW Depth: NOT ENCOUNTERED

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN/ ORANGE MOTTLED SILT	M	—	Y		P / F
06-12	↓	M	—	Y		P / F
12-18	DARK GRAY SILT	M	—	N		P / F
18-24	GRAY SILT	M	—	N		P / F
24-30	↓	M	—	N		P / F
30-36	BROWN COARSE SAND	M	—	N		P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position: 10' TO ℄ DUE EAST

Date: 11/19/14
Test Pit No: 3-377
Excavator: 308
Weather: 20'
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOCS. TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18	LIGHT BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30	GRAVELLY SAND	M	30			P / F
30-36	SILTY SAND	W	40-60			P / F
36-42						P / F
42-48	, COBBLES					P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MD
Logged By: TYP
Changed from Staked Position:

Date: 11/19/14
Test Pit No: 3-377N
Excavator: 308
Weather: 15°
GW Depth: 3½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	0	0	Y		P / F
06-12	DARK BROWN SILTY CLAY	↓	↓	N		P / F
12-18	↓	↓	↓	↓		P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/19/14
Test Pit No: 3-377E
Excavator: 308
Weather: 15°
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	0	0	N		P / F
06-12	LIGHT BROWN SILTY CLAY	↓	↓	↓		P / F
12-18	↓	↓	↓	↓		P / F
18-24	LIGHT BROWN SAND	↓	↓	↓		(P) / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MMM PETAK
Changed from Staked Position:

Date: 12/15/14
Test Pit No: 3-37B
Excavator: DAVE KIPP
Weather: SUNNY, 20°F
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	YELLOW/ORANGE/BROWN MOTTLED SILT	M	—	Y		P / F
06-12	↓	M	—	Y		P / F
12-18	↓	M	—	Y		P / F
18-24	GRAY SILT	M	—	N		P / F
24-30	GRAY SILTY CLAY	M	—	N		P / F
30-36	↓	M	—	N		P / F
36-42	GRAY SILTY SAND	W	—	N		P / F
42-48	GRAY SAND MACK GRAVEL	W	5 (no)	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page 1 of 1

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: Mark Peters
Changed from Staked Position:

Date: 12/11/14
Test Pit No: 3-379
Excavator: [illegible]
Weather: Cloudy, [illegible]
GW Depth: @ 3.5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	ORANGE/BROWN/YELLOW MOTTLED SILT	M	–	Y		P / F
06-12	↓	M	–	Y		P / F
12-18	↓	M	–	Y		P / F
18-24	BROWNISH-GRAY SILT	M	–	N		P / F
24-30	↓	M	–	N		P / F
30-36	GRAY SILTY SAND	M	–	N		P / F
36-42	↓	W	–	N		P / F
42-48	GRAY SAND, LITTLE GRAVEL	W	~~20~~ 20(%)	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: GRAY SAND & GRAVEL (ALLUVIUM) @ BOTTOM OF HOLE (9')

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 12/22/14
Test Pit No: 3-380
Excavator: 308
Weather: 33°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18	DARK BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36	LIGHT BROWN SAND		40			P / F
36-42		M				P / F
42-48	, COBBLES	W	60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 12/22/14
Test Pit No: 3-380W
Excavator: 308
Weather: 32°
GW Depth: 4 1/2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	ORANGE SILTY SAND	0	Ø	Y		P / F
06-12						P / F
12-18	DARK BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30	LIGHT BROWN SILTY CLAY					P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 12/23/14
Test Pit No: 3-380W2
Excavator: 308
Weather: 30°
GW Depth: ~~2'~~ 3½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, COBBLES, SILTY CLAY	D	Ø	N		P / F
06-12	TAN SILTY SAND			Y		P / F
12-18	, GREY LENS					P / F
18-24	DARK BROWN SILTY CLAY			N		P / F
24-30						P / F
30-36	GREY CLAY	M				P / F
36-42	COARSE SAND, COBBLES	W	40			P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MD
Logged By: TYP
Changed from Staked Position:

Date: 11/20/14
Test Pit No: 3-381
Excavator: 308
Weather: 15°
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN, ORANGE SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18						P / F
18-24	LIGHT BROWN CLAY			N		P / F
24-30		M				P / F
30-36		W				P / F
36-42	DARK BROWN SILTY CLAY					P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/20/14
Test Pit No: 3-38W
Excavator: 308
Weather: 20°
GW Depth: >2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SILTY SOIL, DARK BROWN SILTY CLAY	D	Ø	N		P / F
06-12						P / F
12-18	LIGHT BROWN CLAY					P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TJP
Changed from Staked Position:

Date: 12/22/14
Test Pit No: 3-382
Excavator: 308
Weather: 35°
GW Depth: 5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18	BROWN SILTY SAND			N		P / F
18-24						P / F
24-30	LIGHT BROWN CLAY					P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54	GRAVELS, COBBLES		60			P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/15/14
Test Pit No: 3-383
Excavator: DAVE [illegible]
Weather:
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN / YELLOW / ORANGE MOTTLED TAILINGS	M	—	Y		P / F
06-12	↓	M	—	Y		P / F
12-18	GRAY SILT	M	—	N		P / F
18-24	DARK GRAY SILT	M	—	N		P / F
24-30	↓	M	—	N		P / F
30-36	↓	M	—	N		P / F
36-42	GRAY SANDY SILT	M	—	N		(P) / F
42-48	↓	W	—	N		(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 11/20/19
Test Pit No: 3-384
Excavator: 308
Weather: 20
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	ORANGE SILTY SAND	D	2	Y		P / F
06-12						P / F
12-18						P / F
18-24	~~DARK~~ LIGHT BROWN SILTY CLAY, GREY LENS			N		P / F
24-30	LIGHT BROWN SILTY CLAY	M				P / F
30-36	DARK BROWN SILTY CLAY	W				P / F
36-42	GRAVELLY SAND					P / F
42-48			40			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/15/14
Test Pit No: 3-385
Excavator: DAVE WEBB
Weather: SUNNY, ~20°F
GW Depth: 35'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	ORANGE/BROWN MOTTLED SILT	M	—	Y		P / F
06-12	↓	M	—	Y		P / F
12-18	OLIVE GRAY SILT	M	—	N		P / F
18-24	DARK GRAY SILT	M	—	N		P / F
24-30	↓	M	—	N		P / F
30-36	BROWN SILTY SAND	M	—	N		P / F
36-42	BROWN SAND	W	—	N		P / F
42-48	SAND WITH FINE GRAVEL	W	~ 20%	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/15/14
Test Pit No: 3-386
Excavator: [illegible]
Weather: SUNNY, [illegible]
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	LIGHT BROWN/LIGHT GRAY/ORANGE MOTTLED SILT	M	—	Y		P / F
06-12	↓	M	—	Y		P / F
12-18	↓	M	—	Y		P / F
18-24	DARK GRAY SILT	M	—	N		P / F
24-30	BROWNISH GRAY SILT	M	—	N		P / F
30-36	↓	M	—	N		P / F
36-42	↓	M	—	N		P / F
42-48	↓	M	—	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: Mary Peters
Changed from Staked Position: Staked 13' East of location (river)

Date: 12/11/14
Test Pit No: 3-387
Excavator: Dave Kipp
Weather: cloudy, windy(s), rlyo
GW Depth: 35'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	Brown/orange mottled silt	M	—	Y		P / F
06-12	↓	M	—	Y		P / F
12-18	Brown/orange/yellow mottled silt with boulders/roots (possible debris flow)	M	—	Y		P / F
18-24		M	—	Y		P / F
24-30	↓	M	—	Y		P / F
30-36		M	—	Y		P / F
36-42	Grey sand, little gravel	W	— 15 (min)	N		P / F
42-48	↓	W	— 15 (min)	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: Bottom of hole (4') Brown sandy gravel ~~20%~~ 70% Rock (Alluvium)

Page 1 of 1

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 12/22/~~2~~14
Test Pit No: 3-388
Excavator: 308
Weather: 35°
GW Depth: 4'12'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, ORANGE SILTY SAND	0	Ø	Y		P / F
06-12						P / F
12-18	DARK BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 12/22/14
Test Pit No: 3-389
Excavator: 308
Weather: 35°
GW Depth: 4'/2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	0	Y		P / F
06-12						P / F
12-18	LIGHT BROWN CLAY			N		P / F
18-24	DARK BROWN CLAY					P / F
24-30						P / F
30-36						P / F
36-42			40			P / F
42-48	GRAVELS					P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 12/22/14
Test Pit No: 3-389 W
Excavator: 308
Weather: 35°
GW Depth: 2 1/2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	Ø	Y		P / F
06-12	DARK BROWN SILTY CLAY			N		P / F
12-18						P / F
18-24	LIGHT BROWN CLAY	M				P / F
24-30		W				P / F
30-36						P / F
36-42						P / F
42-48	DARK BROWN CLAY					P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TVP
Changed from Staked Position:

Date: 11/20/14
Test Pit No: 3-390
Excavator: 308
Weather: 20°
GW Depth: 3½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SOIL, SAND	D	0	Y		P / F
06-12	TAN SILTY CLAY			N		P / F
12-18						P / F
18-24						P / F
24-30		M				P / F
30-36	GRAVELLY SAND	W				P / F
36-42	, COBBLES		40-60			P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: ~~3-391~~ MARK PETERS
Changed from Staked Position: STAKED 125' EAST OF 3-392.

Date: 12/15/14
Test Pit No: 3-391
Excavator: DAVE KIPP
Weather: SUNNY, ~100°F.
GW Depth: NOT ENCOUNTERED

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN SILT	M	—	N		P / F
06-12	↓	M	—	N		P / F
12-18	GRAY SILT	M	—	N		P / F
18-24	DARK GRAY SILT	M	—	N		P / F
24-30		M	—	N		P / F
30-36		M	—	N		P / F
36-42		M	—	N		P / F
42-48	↓	M	—	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/15/14
Test Pit No: 3-391E
Excavator: [illegible]
Weather: SUNNY, [illegible]
GW Depth: NOT ENCOUNTERED

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN YELLOWISH-BROWN SILT	M	—	N		P / F
06-12	↓	M	—	N		P / F
12-18	BROWNISH-GRAY SILT	M	—	N		P / F
18-24	↓	M	—	N		P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page 1 of 1

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/25/14
Test Pit No: ~~3-292~~ 3-392 Cmp
Excavator: Dark mtr
Weather: Sunny, 50F
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	Brown SILT	M	—	N		P / F
06-12		M	—	N		P / F
12-18		M	—	N		P / F
18-24	GRAY SILT	M	—	N		P / F
24-30	GRAY CLAYEY SILT	M	—	N		P / F
30-36		M	—	N		P / F
36-42	SILTY SAND (GRAY)	W	—	N		P / F
42-48	COARSE SAND (GRAY	W	—	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page 2 of 1

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MO
Logged By: TYP
Changed from Staked Position:

Date: 12/22/14
Test Pit No: 3-393
Excavator: 308
Weather: 32°
GW Depth: 4½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, ORANGE SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18	GREY SILTY SAND			N		P / F
18-24						P / F
24-30	DARK BROWN SILTY CLAY					P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TVP
Changed from Staked Position:

Date: 12/22/14
Test Pit No: 3-394
Excavator: 308
Weather: 32°
GW Depth: 4½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	0	Y		P / F
06-12						P / F
12-18	ORANGE LENS, LIGHT BROWN SILTY CLAY					P / F
18-24				N		P / F
24-30						P / F
30-36						P / F
36-42	GRAVELS, COBBLES		60			P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 12/22/14
Test Pit No: 3-395
Excavator: 309
Weather: 32°
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	9	Y		P / F
06-12						P / F
12-18						P / F
18-24	DARK BROWN SILTY CLAY			N		P / F
24-30						P / F
30-36						P / F
36-42	LIGHT BROWN CLAY					P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 12/22/14
Test Pit No: 3-395 W
Excavator: 308
Weather: 32°
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, ORANGE SILTY SAND	D	0	Y		P / F
06-12	DARK BROWN SILTY CLAY			N		P / F
12-18						P / F
18-24						P / F
24-30	LIGHT BROWN CLAY	M				P / F
30-36		W				P / F
36-42						P / F
42-48	MEDIUM SAND					P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 12/23/14
Test Pit No: 3-395W2
Excavator: 308
Weather: 30°
GW Depth: >2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	0	Y		P / F
06-12	DARK BROWN SILTY CLAY			N		P / F
12-18						P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/11/14
Test Pit No: 3-396
Excavator: DAVE [illegible]
Weather: CLOUDY, 40°F, [illegible] (S)
GW Depth: 3.5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN SANDY SILT	M	—	N		P / F
06-12		M	—	N		P / F
12-18		M	—	N		P / F
18-24	DARK GRAY SILTY CLAY	M	—	N		P / F
24-30		M	—	N		P / F
30-36		M	—	N		P / F
36-42	GRAY SANDY GRAVEL	W	— 50 (mm)	N		P / F
42-48		W	2 - 70 (mm)	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: Mark Peters
Changed from Staked Position:

Date: 12/15/14
Test Pit No: 3-396E
Excavator: Dave Kipp
Weather: Sunny, Floor.
GW Depth: Not encountered

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	Brown silt	M	—	N		P / F
06-12	Brown/light brown/orange mottled silt	M	—	Y		P / F
12-18	Brown silt	M	—	N		P / F
18-24		M	—	N		P / F
24-30		M	—	N		P / F
30-36		M	—	N		P / F
36-42		M	—	N		P / F
42-48		M	—	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/15/14
Test Pit No: 3-39662
Excavator: [illegible]
Weather: SUNNY, ~15°C
GW Depth: NOT ENCOUNTERED

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN SILT, TRACE YELLOW SILT	M	—	Y		P / F
06-12		M	—	Y		P / F
12-18	LIGHT BROWN / LIGHT GRAY / ORANGE MOTTLED SILT	M	—	Y		P / F
18-24		M	—	Y Y		P / F
24-30	GRAYISH-BROWN SANDY SILT	M	—	Y N		P / F
30-36	GRAYISH-BROWN SILT	M	—	Y N		P / F
36-42		M	—	Y N		(P)/F
42-48	DARK GRAY SILT	M	—	Y N		(P)/F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page 1 of 1

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETRI
Changed from Staked Position:

Date: 12/11/14
Test Pit No: 3-397
Excavator: DANE KIPP
Weather: CLOUDY, ~45°F
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN/ ORANGE MOTTLED SILT	M	—	Y		P / F
06-12	↓	M	—	Y		P / F
12-18	GRAY SILT	M	—	N		P / F
18-24	GRAY SAND	M	—	N		P / F
24-30	GRAY SILT	M	—	N		P / F
30-36	BROWN ~~SAND~~ SAND	W	—	N		P / F
36-42	GRAY GRAVELLY SAND	W	— 30(mm)	N		P / F
42-48	↓ (TRACE COBBLE 42-48")	W	35(mm)	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/11/14
Test Pit No: 3-398
Excavator: DAVE [illegible]
Weather: CLOUDY, ~ 45°F
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN/REDDISH-BROWN/GRAY MOTTLED SILT	M	—	Y		P / F
06-12		M	—	Y		P / F
12-18		M	—	Y		P / F
18-24	DARK GRAY SILT	M	—	N		P / F
24-30		M	—	N		P / F
30-36		M	—	N		P / F
36-42		W	—	N		P / F
42-48	GRAY SILTY SAND	W	—	N		P / F
48-54				N		P / F
54-60				N		P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/18/14
Test Pit No: 3-399
Excavator: DAVE INTAP
Weather: CLOUDY, 20°F
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	YELLOW/BROWN SILT	M	—	Y		P / F
06-12	BROWNISH-GRAY SILT	M	—	N		P / F
12-18	↓	M	—	N		P / F
18-24	↓	M	—	N		P / F
24-30	BROWN SILTY SAND	M	—	N		P / F
30-36	↓	M	—	N		P / F
36-42	↓	M	—	N		P / F
42-48	↓	W	—	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/11/14
Test Pit No: 3-400
Excavator: DAVE KIPP
Weather: Cloudy, 45°F.
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN SAND	M	—	Y		P / F
06-12		M	—	Y		P / F
12-18		M	—	N		P / F
18-24		M	—	N		P / F
24-30		M	—	N		P / F
30-36	BROWN SANDY GRAVEL	M	— 50 MP	N		P / F
36-42		W	~~5~~ 55 (GM)	N		P / F
42-48	GRAY GRAVELLY SAND (ALLUVIUM)	W	~~20~~ 60 (GM)	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page 1 of 1

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MATTH PETERS
Changed from Staked Position:

Date: 12/15/14
Test Pit No: 3-401
Excavator: [illegible]
Weather: SUNNY, ~15°F.
GW Depth: NOT ENCOUNTERED.

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN SILTY SAND	M	—	~		P / F
06-12	LIGHT BROWN SAND	M	—	~		P / F
12-18		M	—	~		P / F
18-24		M	—	~		P / F
24-30		M	—	~		P / F
30-36		M	—	~		P / F
36-42		M	—	~		P / F
42-48	LIGHT BROWN SILTY SAND	M	—	~		P / F
48-54				~		P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/16/14
Test Pit No: 3-401E
Excavator: DAVE KEPP
Weather: SUNNY, ~15°F
GW Depth: NOT ENCOUNTERED

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	DARK BROWN CLAY SILT	M	—	N		P / F
06-12	↓	M	—	N		P / F
12-18	BROWN SILTY SAND	M	—	N		P / F
18-24	↓	M	—	N		P / F
24-30	BROWN SAND	M	—	N		P / F
30-36	↓	M	—	N		P / F
36-42		M	—	N		P / F
42-48		M	—	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page 1 of 1

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/11/17
Test Pit No: 3-402
Excavator: [illegible]
Weather: CLOUDY, ~55°F
GW Depth: 3.5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN SILT, TRACE GRAY/ YELLOW TAILINGS	M	—	Y		P / F
06-12		M	—	Y		P / F
12-18	BROWN TO REDDISH - BROWN SILTY SAND	M	—	N		P / F
18-24	ALTERNATING SAND/SILT LAYERS	M	—	N		P / F
24-30	~~ALTERNATING~~	M	—	N		P / F
30-36	GRAY SAND	W	—	N		P / F
36-42		W	—	N		P / F
42-48		W	—	N		P / F
48-54	BROWN SANDY GRAVEL	W	— 50 (mp)	N		P / F
54-60		20 W	~~2~~ 70 mp	N		P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

ark Fork River OU, Reach A Phases 3 & 4
ordan Construction

MARK PETERS

m Staked Position:

Date: 12/11/14
Test Pit No: 3-403
Excavator: DAVE KLIPP
Weather: P CLOUDY, UNWDY(S) ~45°F
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	ORANGE/BROWN/GRAY MOTTLED SILT	M	—	Y		P / F
06-12	↓	M	—	Y		P / F
12-18	↓	M	—	Y		P / F
18-24	↓	M	—	Y		P / F
24-30	DARK GRAY SILT	M	—	N		P / F
30-36	↓	W	—	N		P / F
36-42	↓	W	—	N		P / F
42-48	GRAY SAND. WITH FINE ORANGE	W	— 20 cm	N		P / F
48-54	BROWN SANDY ORANGE	W	— 50 cm	N		P / F
54-60	↓	W	~~30~~ 80 ppm	N		P / F
60-66						P / F
66-72						P / F

Remarks:

Page 1 of 1

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK [illegible]
Changed from Staked Position:

Date: 12/11/14
Test Pit No: 3-404
Excavator: [illegible]
Weather: P. CLOUD
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	REDDISH BROWN SAND TRACE ORANGE TAILINGS	M	—	Y		P / F
06-12	~~REDDISH B~~ (SILT)	M	—	Y		P / F
12-18		M	—	Y		P / F
18-24		M	—	Y		P / F
24-30		M	—	Y		P / F
30-36	BROWN SAND/BLACK SILT/WOOD FRAGMENTS POSSIBLE DEBRIS FLOW	W	—	Y		P / F
36-42		NW	—	N		P / F
42-48		W	—	N		P / F
48-54		W	—	N		P / F
54-60	GRAY SANDY GRAVEL	W	~~30~~ 80(MP)	N		P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position: STAKED 20' EAST OF LOCATION

Date: 12/11/14
Test Pit No: 3-45
Excavator: Dave Wolf
Weather: P. CLOUDY, 30°F
GW Depth: 2.5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN SAND, LITTLE SILT	M	—	~		P / F
06-12	↓	M	—	~		P / F
12-18	BROWN GRAVELLY SAND	M	30(cm)	~		P / F
18-24	↓	M	30(cm)	~		P / F
24-30	↓	W	35(cm)	~		P / F
30-36	GRAY SANDY GRAVEL (ALLUVIUM)	W	80(cm)	~		P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 12/22/14
Test Pit No: 3-406
Excavator: 308
Weather: 32°
GW Depth: 4½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	0	0	Y		P / F
06-12	DARK BROWN SILTY CLAY			N		P / F
12-18						P / F
18-24						P / F
24-30	LIGHT BROWN SILTY SAND					P / F
30-36						P / F
36-42	COBBLES, GRAVELS		60			P / F
42-48						(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: Mark Peters
Changed from Staked Position:

Date: 12/15/17
Test Pit No: 3-407
Excavator: Dave Lamb.
Weather: Sunny, 270°F
GW Depth: 6'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	Brown silt	M	—	N		P / F
06-12	Light brown sand w/ silt slags	M	—	N		P / F
12-18		M	—	N		P / F
18-24		M	—	N		P / F
24-30		M	—	N		P / F
30-36		M	—	N		P / F
36-42		M	—	N		P / F
42-48	Light brown silt	M	—	N		P / F
48-54	Gray/reddish brown oxidized silt	M	—	N		P / F
54-60	Gray silty sand	M	—	N		P / F
60-66		M	—	N		P / F
66-72		M	—	N		P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK ACCOS
Changed from Staked Position:

Date: 12 / 16 / 14
Test Pit No: 3-407 N
Excavator: DAVE [illegible]
Weather: P. CLOUDY, ≈15°F
GW Depth:

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN SILT	M	—	N		P / F
06-12	LIGHT BROWN SAND	M	—	N		P / F
12-18	↓	M	—	N		P / F
18-24	↓	M	—	N		P / F
24-30	GRAY SILTY SAND	M	—	N		P / F
30-36	↓	M	—	N		P / F
36-42	GRAY LOAMY MOTTLED SILT	M	—	N		P / F
42-48	~~GRAY~~ ↓	M	—	Y		P / F
48-54	GRAY SILTY CLAY	M	—	Y		P / F
54-60	↓	M	—	N		P / F
60-66	↓	M	—	N		P / F
66-72	↓	M	—	N		P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: PETRS
Changed from Staked Position:

Date: 12/16/14
Test Pit No: 3-407N
Excavator: KTOP
Weather:
GW Depth: 6.5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
~~00-06~~ 72-78	GRAY SILT		—	~		P / F
~~06-12~~ 78-84		W	—	~		P / F
~~12-18~~ 84-90			—	~		P / F
~~18-24~~ 90-96	GRAY SANDY GRAVEL	W	40-60%	~		P / F
~~24-30~~						P / F
~~30-36~~						P / F
~~36-42~~						P / F
~~42-48~~						P / F
~~48-54~~						P / F
~~54-60~~						P / F
~~60-66~~						P / F
~~66-72~~						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/16/14
Test Pit No: 3-407E
Excavator: DOUG KIDD
Weather: P. CLOUDY, 15°F
GW Depth: NOT ENC CLUTCH

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN SANDY SILT	M	~~10~~ —	N		P / F
06-12	↓	M	~~10~~ —	N		P / F
12-18	SAND, LITTLE GRAVEL, TRACE COBBLES, BROWN	D	— 10 cm	N		P / F
18-24	↓	D	— 10 mm	N		P / F
24-30		M	~~10~~ 30 cm	N		P / F
30-36		M	~~10~~ 30 mm	N		P / F
36-42		M	~~10~~ 30 mm	N		P / F
42-48		M	— 10 mm	N		P / F
48-54		M	— 10 mm	N		P / F
54-60		M	— 10 mm	N		P / F
60-66		M	— 10 mm	N		P / F
66-72	↓	M	— 10 mm	N		P / F

Remarks:

Page 1 of 1

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: Mark Peters
Changed from Staked Position:

Date: 12/15/14
Test Pit No: 3-408
Excavator: Dave Utter
Weather: P. Cloudy, ~35°F.
GW Depth: 3.5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	Light gray/yellow/orange mottled silt	M	—	Y		P / F
06-12	↓	M	—	Y		P / F
12-18	↓	M	—	Y		P / F
18-24	Brown silt	M	—	N		P / F
24-30	Reddish brown/gray oxidized silt	M	—	N		P / F
30-36	Dark gray silt	M	—	N		P / F
36-42	↓	W	—	N		P / F
42-48	Gray silty sand	W	—	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page __

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 12/22/14
Test Pit No: 3-409
Excavator: 308
Weather: 32°
GW Depth: 4½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	Ø	Y		P / F
06-12	DARK BROWN SILTY CLAY			N		P / F
12-18						P / F
18-24						P / F
24-30	LIGHT BROWN CLAY					P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: ~~3-410~~ 12/16/14
Test Pit No: 3-410
Excavator: [illegible]
Weather: Cloudy, ~20°F.
GW Depth: 3.5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	YELLOW ORANGE / BROWN MOTTLED SILT	M	—	Y		P / F
06-12	↓	M	—	Y		P / F
12-18	ORAY SILT	M	—	~		P / F
18-24	↓	M	—	~		P / F
24-30	↓	M	—	~		P / F
30-36	BROWN ORGEN SAND	M	—	~		P / F
36-42	BROWNISH GRAY SAND	W	—	~		P / F
42-48	↓	W	—	~		P / F
48-54	SANDY GRAVEL COLLUVIUM	W	~~20~~ 70%	~		P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page 1 of 1

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/18/14
Test Pit No: 3-411
Excavator: DAVE HIPP
Weather: CLOUDY, ~20°.
GW Depth: NOT ENCOUNTERED

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	YELLOW SILT	M	–	Y		P / F
06-12	DARKER BROWN SILT	M	–	N		P / F
12-18		M	–	N		P / F
18-24		M	–	N		P / F
24-30		M	–	N		P / F
30-36		M	–	N		P / F
36-42		M	–	N		P / F
42-48		M	–	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page 1 of 1

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/16/14
Test Pit No: 3-412
Excavator: DAVE KIAP
Weather: P. CLOUDY, ≈10 °F
GW Depth: 6'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN / YELLOW / ORANGE MOTTLED SILT	M	—	✓		P / F
06-12		M	—	✓		P / F
12-18		M	—	✓		P / F
18-24	GRAY SILT	M	—	N		P / F
24-30		M	—	N		P / F
30-36		M	—	N		P / F
36-42		M	—	N		P / F
42-48	GRAY SILTY SAND	M	—	N		P / F
48-54		W	—	N		P / F
54-60	GRAY SAND	W	—	N		P / F
60-66	GRAY SANDY GRAVEL	W	— 50 (mm)	N		P / F
66-72		W	— 50 mm	N		P / F

Remarks: SANDY GRAVEL ALLUVIUM (~~10%~~ 60 (mm)) ROCK @ 6' BGS.

Page 1 of 1

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/16 /14
Test Pit No: 3-413
Excavator: BANG HOE
Weather: PARTLY CLOUDY, ~20 DEG
GW Depth: 3.5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN ORANGE MOTTLED SILT	M	—	Y		P / F
06-12		M	—	Y		P / F
12-18	LIGHT GRAY ORANGE/YELLOW MOTTLED SILTY SAND	M	—	Y		P / F
18-24		M	—	Y		P / F
24-30	SAND/COAL FRAGMENTS	M	—	Y		P / F
30-36	REDDISH BROWN ORANGE SAND	M	— 3(mm)	N		P / F
36-42	REDDISH-BROWN SANDY GRAVEL	W	— 5(mm)	N		P / F
42-48		W	20-70(mm)	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page 1 of 1

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 12/22/14
Test Pit No: 3-414
Excavator: 308
Weather: 32°
GW Depth: 2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN MEDIUM SAND	D	Ø	N		P / F
06-12						P / F
12-18						P / F
18-24	GREY SILTY SAND	M				P / F
24-30		W				P / F
30-36						P / F
36-42	DARK BROWN SILTY SAND					P / F
42-48	, ROOTS, STICKS, COBBLES		~~8~~ <30			(P) / F
48-54						P / F
54-60						P / F
60-66	GRAVELS, COBBLES		60			P / F
66-72						P / F

Remarks: DEWATERED

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/18/14
Test Pit No: 3-415
Excavator: DAVE WIPP
Weather: CLOUDY, ≈ 20°F
GW Depth: NOT ENCOUNTERED

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	YELLOW / BROWN SILT	M	—	Y		P / F
06-12	DARK GRAY SILT	M	—	N		P / F
12-18		M	—	N		P / F
18-24		M	—	N		P / F
24-30	GRAY CLAYEY SILT	M	—	N		P / F
30-36		M	—	N		P / F
36-42		M	—	N		P / F
42-48		M	—	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: ~~3-416~~ MARK PETERS
Changed from Staked Position:

Date: 12/16/14
Test Pit No: 3-416
Excavator: DAVE KIRK
Weather: CLOUDY, ~20°F
GW Depth: 5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	YELLOW/ORANGE/LIGHT GRAY MOTTLED SILT	M	—	Y		P / F
06-12	↓	M	—	Y		P / F
12-18	BROWN SAND / TAILINGS MIX	M	—	Y		P / F
18-24	GRAY SILT	M	—	N		P / F
24-30	↓	M	—	N		P / F
30-36	↓	M	—	N		P / F
36-42	DARK GRAY SILT	M	—	N		P / F
42-48	↓	M	—	N		P / F
48-54	↓	~~B~~ W	—	N		P / F
54-60	↓	W	—	N		P / F
60-66		~~B~~				P / F
66-72						P / F

Remarks: ALLUVIUM @ 5' BGS

Page 1 of 1

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/16/14
Test Pit No: 3-417
Excavator: DAVE KIRP
Weather: ~~D~~ CLOUDY ~2.0°F
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN / ORANGE MOTTLED SILT	M	—	Y		P / F
06-12	YELLOW / GRAY / ORANGE MOTTLED SILTY SAND	M	—	Y		P / F
12-18		M	—	Y		P / F
18-24		M	—	Y		P / F
24-30		M	—	Y		P / F
30-36	BROWN SAND	M	—	N		P / F
36-42	BROWN SAND & GRAVEL	W	— 50cm	N		P / F
42-48		~~25~~ W	~~25~~ 70cm	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/16/14
Test Pit No: 3-418
Excavator: DAVE KEPP
Weather: ~~[illegible]~~ P. CLOUDY, ~ 200F
GW Depth: 3.5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN / ORANGE / GRAY MOTTLED SILTY SAND	M	—	Y		P / F
06-12	↓	M	—	Y		P / F
12-18	↓	M	—	Y		P / F
18-24	BROWN / LIGHT GRAY / ORANGE MOTTLED SILT	M	—	Y		P / F
24-30		M	—	Y		P / F
30-36	GRAY SILTY SAND	M	—	N		P / F
36-42	↓	W	—	N		P / F
42-48	~~GRAY SILTY SAND~~ BROWN SANDY GRAVEL (ALLUVIUM)	W	~~20~~ 70	N		P / F
48-54	~~BROWN SANDY GRAVEL (ALLUVIUM)~~	~~W~~	~~20~~	~~N~~		P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/16/14
Test Pit No: 3-419
Excavator: DAVE KIPP
Weather:
GW Depth: 2.5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN ORANGE MOTTLED SILT SAND WITH ROOTS	M	—	Y		P / F
06-12	↓	M	—	Y		P / F
12-18	BROWN SILT	M	—	N		P / F
18-24	↓	M	—	N		P / F
24-30	BROWN SANDY GRAVEL	W	— 50(mm)	N		P / F
30-36	↓	W	~~[illegible]~~ 80(mm)	N		P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/18/14
Test Pit No: 3-42
Excavator: [illegible]
Weather: Cloudy 20°F
GW Depth: 2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN SILT	M	—	N		P / F
06-12	GRAY / ORANGE / BROWN MOTTLED SILT	M	—	N		P / F
12-18		M	✓	Y		P / F
18-24	(20") GRAY SANDY GRAVEL (Alluvium)	W	20 70%	N		P / F
24-30		W	20 70%	N		P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/16/14
Test Pit No: 3-421
Excavator: DAVE USAP
Weather: CLOUDY 15°F
GW Depth: 4.5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN SILT	M	—	N		P / F
06-12		M	—	N		P / F
12-18	LIGHT BROWN SAND	M	—	N		P / F
18-24		M	—	N		P / F
24-30	BROWNISH-GRAY SANDY SILT	M	—	N		P / F
30-36		M	—	N		P / F
36-42		M	—	N		P / F
42-48		M	—	N		P / F
48-54		W	—	N		P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/16/14
Test Pit No: 3-421S
Excavator: [illegible]
Weather: SUNNY, ±15°F
GW Depth: NOT ENCOUNTERED

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN SILTY SAND	~	—	~		P / F
06-12		~	—	~		P / F
12-18	BROWN SAND	~	—	~		P / F
18-24	DARK BROWN ~~SILTY SAND~~ SANDY SILT	~	—	~		P / F
24-30		~	—	~		P / F
30-36	BROWN SAND	~	—	~		P / F
36-42	DARK BROWN SILTY SAND	~	—	~		P / F
42-48		~	—	~		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page 1 of 1

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/16/14
Test Pit No: 3-421 E
Excavator: DAVE NEAR
Weather: P. CLOUDY ~15°F
GW Depth: NOT ENCOUNTERED

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN SILT	M	—	N		P / F
06-12	↓	M	—	N		P / F
12-18	BROWN SAND	M	—	N		P / F
18-24		M	5	N		P / F
24-30	BROWN SANDY SILT SEAMS	M	—	N		P / F
30-36	↓	M	—	N		P / F
36-42	BROWN SAND	M	—	N		P / F
42-48	↓	M	—	N		(P) / F
48-54		M	—	N		(P) / F
54-60						P / F
60-66						P / F
66-72						P / F
						P / F

Remarks:

Page 1 of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/16/14
Test Pit No: 3-422
Excavator: DAVE WEAR
Weather: CLOUDY, ~20°F
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	LIGHT GRAY / ORANGE / YELLOW MOTTLED SILT	M	—	Y		P / F
06-12		M	—	Y		P / F
12-18		M	—	Y		P / F
18-24		M	—	Y		P / F
24-30	GRAY SILT	M	—	N		P / F
30-36	GRAY SILT	M	—	N		P / F
36-42	LIGHT GRAY SILT	M	—	Y		P / F
42-48	GRAY SILT, CLAY	W	—	N		P / F
48-54	BROWN SAND	W	—	N		P / F
54-60	BROWN SANDY GRAVEL (ALLUV	W	~~20~~ 70(mf)	N		P / F
60-66						P / F
66-72						P / F

Remarks:

Page 1 of 1

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/16/14
Test Pit No: 3-423
Excavator: DAVE [illegible]
Weather: CLOUDY, 20°F
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	LIGHT GRAY/ YELLOW/ ORANGE MOTTLED SILT	M	—	Y		P / F
06-12		M	—	Y		P / F
12-18		M	—	Y		P / F
18-24		M	—	Y		P / F
24-30	GRAY SILT	M	—	Y		P / F
30-36	GRAY GRAVELLY SAND	M	—	N		P / F
36-42		M	—	N		P / F
42-48		W	—	N		P / F
48-54	GRAY SANDY GRAVEL (OLIGOCENE)	W	~~10~~ 60(ppm)	N		P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/16/14
Test Pit No: 3-424
Excavator: DAVE KIPP
Weather: P CLOUDY, 20°F.
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN SILTY SAND, TRACE TAILINGS	M	—	Y		P / F
06-12	GRAY / REDDISH BROWN MOTTLED SILT	M	—	Y		P / F
12-18		M	—	Y		P / F
18-24	REDDISH-BROWN GRAVELLY SAND	M	— 30(mm)	N		P / F
24-30		M	— 30(mm)	N		P / F
30-36		M	— 30(mm)	N		P / F
36-42	REDDISH-BROWN SANDY GRAVEL	W	10 60(mm)	N		P / F
42-48		W	20 80(mm)	N		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: MARK PETERS
Changed from Staked Position:

Date: 12/16/14
Test Pit No: 3-42S
Excavator: DAVE KIPP
Weather: PC CLOUDY, 20°F
GW Depth: 2.5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN/ORANGE MOTTLED SILTY SAND WITH ROOTS	M	—	Y		P / F
06-12	↓	M	—	Y		P / F
12-18	BROWN SILT	M	—	N		P / F
18-24	BROWN GRAVELLY SAND	M	— 30(mm)	N		P / F
24-30	BROWN SANDY GRAVEL (ALLUVIUM).	W	20 70(mm)	N		P / F
30-36		W	30 80(mm)	N		P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By: ~~3-426~~ Mark Peters
Changed from Staked Position:

Date: 12/18/14
Test Pit No: 3-426
Excavator: Dave Uiap
Weather: Cloudy, ~20°F
GW Depth: 71

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	Orange/Brown mottled silt with roots	M	—	Y		P / F
06-12	↓	M	—	Y		P / F
12-18	Dark gray silt with roots	M	—	N		P / F
18-24	Gray sand	W	—	N		P / F
24-30	Gray sandy gravel (alluvium)	W	~~20~~ 70(m)	N		P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: FYP
Logged By:
Changed from Staked Position: 20' SOUTH

Date: 02/10/15
Test Pit No: 4-001
Excavator: 308
Weather: 40°
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	0	0	N		P / F
06-12	BROWN SILTY SAND					P / F
12-18						P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 02/10/15
Test Pit No: 4-002
Excavator: 308
Weather: 40
GW Depth: 5 1/2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, BROWN SILTY CLAY TAN SILTY SAND	D	Ø	Y		P / F
06-12	↓					P / F
12-18	ORANGE SILTY CLAY					P / F
18-24	TAN SILTY CLAY					P / F
24-30	GREY SILTY CLAY			N		P / F
30-36	BLACK SILTY CLAY					P / F
36-42	BROWN SILTY CLAY					P / F
42-48						P / F
48-54						P / F
54-60		M				P / F
60-66	GRAVELS	~	40			P / F
66-72	COBBLES	↓	60			P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 02/10/15
Test Pit No: Y-003
Excavator: 308
Weather: 40°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	D	0	Y		P / F
06-12	TAN, ORANGE SILTY CLAY					P / F
12-18						P / F
18-24	GRAY SILTY CLAY					P / F
24-30	BROWN SILTY CLAY			N		P / F
30-36						P / F
36-42	MEDIUM SAND	M				P / F
42-48		W				P / F
48-54						P / F
54-60						P / F
60-66	GRAVELS		40			P / F
66-72	COBBLES		60			P / F

Remarks: DEWATERED

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 12-23-14
Test Pit No: 4-004
Excavator: 308
Weather: 30°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, BROWN SILTY CLAY	D	0	N		P / F
06-12						P / F
12-18	COARSE SAND					P / F
18-24						P / F
24-30	GRAVELS, COBBLES		60			P / F
30-36						P / F
36-42		M				P / F
42-48		W				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 12/23/14
Test Pit No: ~~TP~~ ~~4-004~~ 4-005 (MP)
Excavator: 308
Weather: 30
GW Depth: 4½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18	DARK BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42	LIGHT GREY CLAY					P / F
42-48		M				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TJP
Changed from Staked Position:

Date: 12/23/14
Test Pit No: ~~3~~ 4-006
Excavator: 308
Weather: 30°
GW Depth: 74'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, BROWN SILTY CLAY	D	Ø	N		P / F
06-12						P / F
12-18						P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42	LIGHT BROWN CLAY					P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TC
Logged By:
Changed from Staked Position: 30' SOUTH

Date: 02/10/15
Test Pit No: 4-008
Excavator: 308
Weather: 40°
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	0	0	N		P / F
06-12	BROWN MEDIUM SAND					P / F
12-18						P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TP
Logged By: ↓
Changed from Staked Position:

Date: 02/10/15
Test Pit No: 4-009
Excavator: 308
Weather: 40°
GW Depth: 5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	D	Ø	N		P / F
06-12	BROWN SILTY SAND					P / F
12-18						P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42	BROWN SILTY CLAY					P / F
42-48						P / F
48-54	GRAVELS	M	40			P / F
54-60	& COBBLES	W	60			P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 12/23/14
Test Pit No: 4-010
Excavator: 308
Weather: 30°
GW Depth: 4½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	0	Y		P / F
06-12	DARK BROWN SILTY CLAY			N		P / F
12-18						P / F
18-24						P / F
24-30	LIGHT BROWN CLAY					P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 12/23/14
Test Pit No: 4-011
Excavator: 308
Weather: 30°
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, ORANGE SILTY SAND	0	0	Y		P / F
06-12	BROWN SILTY CLAY			N		P / F
12-18						P / F
18-24						P / F
24-30	DARK BROWN SILTY CLAY					P / F
30-36						P / F
36-42	COARSE SAND					P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 12/23/14
Test Pit No: 4-012
Excavator: 308
Weather: 30°
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, ORANGE SILTY SAND	D	Ø	Y		P / F
06-12	DARK BROWN SILTY CLAY			N		P / F
12-18						P / F
18-24						P / F
24-30						P / F
30-36	TAN MEDIUM SAND					P / F
36-42	DARK BROWN CLAY					P / F
42-48						Ø F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: [illegible]
Changed from Staked Position:

Date: 02/10/15
Test Pit No: 4-013
Excavator: 308
Weather: 40°
GW Depth: 74'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS BROWN SILTY, MEDIUM SAND	D	Ø	N		P / F
06-12						P / F
12-18	COBBLES		<40			P / F
18-24			Ø			P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: T/P
Logged By: ✓
Changed from Staked Position:

Date: 02/10/15
Test Pit No: 4-014
Excavator: 308
Weather: 40°
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN SILTY SAND, COBBLES	D	<40	N		P / F
06-12	↓	↓	↓	↓		P / F
12-18	↓	↓	↓	↓		P / F
18-24	↓	↓	↓	↓		P / F
24-30	↓	↓	↓	↓		P / F
30-36	↓	↓	↓	↓		P / F
36-42	↓	↓	↓	↓		P / F
42-48	↓	↓	↓	✓		P / F
48-54	↓	↓	↓			P / F
54-60	↓	↓	↓			P / F
60-66	GRAVELS ↓		~60			P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 12/23/14
Test Pit No: 4-015
Excavator: 308
Weather: 30°
GW Depth: 74'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, ORANGE SILTY SAND	0	Ø	Y		P / F
06-12	BROWN SILTY CLAY			N		P / F
12-18						P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TVP
Changed from Staked Position:

Date: 12/23/14
Test Pit No: 4-015W
Excavator: 308
Weather: 30°
GW Depth: >2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, ORANGE SILTY SAND	0	0	Y		P / F
06-12	DARK BROWN SILTY CLAY			N		P / F
12-18						P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYD
Logged By: L
Changed from Staked Position:

Date: 02/10/15
Test Pit No: 4-016
Excavator: 308
Weather: 40°
GW Depth: 21

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	D	Ø	N		P / F
06-12	GRAVELS	↓	40	↓		P / F
12-18	BLACK SILTY CLAY	M	1			P / F
18-24	GRAVELS, COBBLES	W	60			P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 02/10/15
Test Pit No: 4-017
Excavator: 308
Weather: 40°
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN SILTY SAND SOILS	D	0	N		P / F
06-12	↓	↓	↓	↓		P / F
12-18	↓	↓	↓	↓		P / F
18-24	↓	↓	↓	↓		P / F
24-30	↓	↓	↓	↓		P / F
30-36	↓	↓	↓	↓		P / F
36-42	↓	↓	↓	↓		P / F
42-48	↓	↓	↓	↓		P / F
48-54	↓					P / F
54-60	↓					P / F
60-66	↓					P / F
66-72	↓					P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 02/10/15
Test Pit No: 4-017E
Excavator: 308
Weather: 40°
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	↓	Ø	N		P / F
06-12	BROWN SILTY SAND					P / F
12-18						P / F
18-24						P / F
24-30						P / F
30-36			↓			P / F
36-42	, COBBLES		40			P / F
42-48	↓	↓	↓	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By:
Changed from Staked Position:

Date: 02/10/15
Test Pit No: 4-018
Excavator: 308
Weather: 40°
GW Depth: 3½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS BROWN SILTY SAND	D	Ø	N		P / F
06-12						P / F
12-18						P / F
18-24						P / F
24-30	BROWN MEDIUM SAND					P / F
30-36		M				P / F
36-42	GRAVELS	W	40			P / F
42-48		W				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TP
Logged By:
Changed from Staked Position:

Date: 02/10/15
Test Pit No: 4-019
Excavator: 308
Weather: 40°
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS / TAN SILTY SAND	O	Ø	Y		P / F
06-12	BLACK SILTY CLAY			N		P / F
12-18						P / F
18-24						P / F
24-30	GRAVELS	M	40			P / F
30-36	COBBLES	W	60			P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 12/23/14
Test Pit No: 4-020
Excavator: 308
Weather: 30°
GW Depth: 4½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, DARK BROWN SILTY CLAY					P / F
06-12						P / F
12-18						P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42	COARSE SAND					P / F
42-48	DARK BROWN CLAY					P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By:
Changed from Staked Position: 10' EAST

Date: 02/10/15
Test Pit No: 4-021
Excavator: 308
Weather: 40
GW Depth: 31

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN, ORANGE SILTY SAND	D	0	Y		P / F
06-12						P / F
12-18	BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30	GRAVELS	M	40			P / F
30-36	, COBBLES	W	60			P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: 1YP
Logged By: [illegible]
Changed from Staked Position:

Date: 02/10/15
Test Pit No: Y-21E
Excavator: 308
Weather: 40°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18						P / F
18-24	TAN SILTY CLAY					P / F
24-30	GREY SILTY CLAY			N		P / F
30-36						P / F
36-42	BROWN SILTY CLAY	M				P / F
42-48		W				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 02/10/15
Test Pit No: 4-02162
Excavator: 308
Weather: 40°
GW Depth: >3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SILTY SOILS	↓	↓	N		P / F
06-12	BROWN SILTY CLAY					P / F
12-18	BROWN SILTY SAND					P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: L
Changed from Staked Position:

Date: 02/09/15
Test Pit No: 4-022
Excavator: 308
Weather: 40° RAIN
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18						P / F
18-24	BROWN SILTY CLAY			N		P / F
24-30						P / F
30-36		M				P / F
36-42	ORANGE SILTY SAND	W				P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TIP
Logged By: ↓
Changed from Staked Position:

Date: 02/10/15
Test Pit No: 4-023
Excavator: 308
Weather: 40°
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	BLACK SILTY CLAY	↓	↓	N		P / F
18-24	↓					P / F
24-30	GRAVELS	M	40	↓		P / F
30-36	↓ , COBBLES	W	60	↓		P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 12/23/14
Test Pit No: 4-024
Excavator: 308
Weather: 30°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, ORANGE SILTY SAND	D	Ø	Y		P / F
06-12	BROWN SILTY CLAY			N		P / F
12-18						P / F
18-24						P / F
24-30	GREY CLAY					P / F
30-36						P / F
36-42	COARSE SAND	M				P / F
42-48	GRAVEL, COBBLE	W	60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By:
Changed from Staked Position:

Date: 02/09/15
Test Pit No: 4-025
Excavator: 308
Weather: 40° WINDY
GW Depth: 6'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN, ORANGE SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18						P / F
18-24	BROWN SILTY CLAY			N		P / F
24-30						P / F
30-36						P / F
36-42	BLACK CLAY					P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66	GRAVELS	M	40			P / F
66-72	COBBLES	W	60			

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By:
Changed from Staked Position:

Date: 02/10/15
Test Pit No: 4-025E
Excavator: 308
Weather: 40°
GW Depth: 5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	X		P / F
06-12						P / F
12-18						P / F
18-24	BLACK SILTY CLAY			N		P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54		M				P / F
54-60	BROWN MEDIUM SAND	W				P / F
60-66	GRAVELS, COBBLES		60			P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 02/10/15
Test Pit No: 4-025E2
Excavator: 308
Weather: 40°
GW Depth: @ 3½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	ORANGE SILTY SAND					P / F
18-24	GREY SILTY CLAY			N		P / F
24-30	BROWN SILTY CLAY					P / F
30-36		M				P / F
36-42		W	↓			P / F
42-48	GRAVELS, COBBLES	↓	60	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 02/10/15
Test Pit No: 4-025EZ/N
Excavator: 308
Weather: 460
GW Depth: 31

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	D	Ø	N		P / F
06-12	BROWN SILTY CLAY	↓	↓	↓		P / F
12-18	↓	↓	↓	↓		P / F
18-24	↓	↓	↓	↓		P / F
24-30	MEDIUM COARSE SAND	M	↓	↓		P / F
30-36	GRAVELS, COBBLES	W	60	↓		P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TP
Logged By: ↓
Changed from Staked Position:

Date: 02/10/15
Test Pit No: 4-025C3
Excavator: 308
Weather: 40°
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	GREY SILTY CLAY					P / F
18-24	BROWN SILTY CLAY			N		P / F
24-30	↓	M	↓	↓		P / F
30-36	GRAVELS	W	40			P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By:
Changed from Staked Position:

Date: 02/10/15
Test Pit No: 4-025 E3/N
Excavator: 308
Weather: 40°
GW Depth: 73'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY CLAY	D	Ø	N		P / F
06-12	BROWN SILTY CLAY					P / F
12-18						P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TP
Logged By: ↓
Changed from Staked Position:

Date: 02/10/15
Test Pit No: 4-02SE4
Excavator: 308
Weather: 40°
GW Depth: >3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	↓	0	N		P / F
06-12	BROWN SILTY CLAY		↓	↓		P / F
12-18	BROWN SILTY SAND					P / F
18-24	BROWN SILTY CLAY					P / F
24-30	↓					P / F
30-36	BROWN SILTY SAND	↓	↓	↓		P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: C
Changed from Staked Position:

Date: 02/09/15
Test Pit No: 4-026
Excavator: 308
Weather: 40°
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	P	Ø	Y		P / F
06-12						P / F
12-18						P / F
18-24	BLACK SILTY CLAY			N		P / F
24-30						P / F
30-36		M				P / F
36-42	GRAVELS, COBBLES	W	~~40~~ 60			P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By:
Changed from Staked Position:

Date: 02/09/15
Test Pit No: 4-027
Excavator: 308
Weather: 40°
GW Depth: ~~4~~ 3½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18				N		P / F
18-24	DARK BROWN SILTY CLAY					P / F
24-30						P / F
30-36		M				P / F
36-42	GRAVELS	W	40			P / F
42-48	, COBBLES		60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TVP
Changed from Staked Position:

Date: 12/24/14
Test Pit No: 4-028
Excavator: 308
Weather: 40°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOIL, TAN SILTY SAND	D	0	Y		P / F
06-12						P / F
12-18	DARK BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30	COARSE SAND					P / F
30-36			40			P / F
36-42	GRAVEL, COBBLES	M	60			P / F
42-48		W				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TJP
Changed from Staked Position:

Date: 12/24/14
Test Pit No: 4-028W
Excavator: 308
Weather: 35°
GW Depth: >2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	0	Y		P / F
06-12	LIGHT BROWN SILTY CLAY			N		P / F
12-18						P / F
18-24	BROWN CLAY					P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By:
Changed from Staked Position:

Date: 02/09/15
Test Pit No: 4-029
Excavator: 308
Weather: 40° WINDY
GW Depth: 6'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	D	Ø	N		P / F
06-12	BROWN SILTY CLAY					P / F
12-18						P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42	LIGHT BROWN CLAY					P / F
42-48						P / F
48-54						P / F
54-60	BROWN SILTY SAND					P / F
60-66		M				P / F
66-72	GRAVELS, COBBLES	W	40-60			P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: ~~MC~~ TP TYP
Logged By:
Changed from Staked Position:

Date: 01/05/15
Test Pit No: 4-030
Excavator: 308
Weather: 40
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SAND, COBBLES	D	40	N		P / F
06-12						P / F
12-18			40			P / F
18-24	DARK BROWN SAND					P / F
24-30	GRAVELS, COBBLES	M	60			P / F
30-36		W				P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks: DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 02/10/15
Test Pit No: Y-031
Excavator: 308
Weather: 40°
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	Ø	Ø	N		P / F
06-12	TAN SILTY SAND					P / F
12-18						P / F
18-24	BLACK SILTY CLAY					P / F
24-30		M				P / F
30-36	GRAVELS, COBBLES	W	60			P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By: L
Changed from Staked Position:

Date: 02/10/15
Test Pit No: 4-032
Excavator: 308
Weather: 40°
GW Depth: 2½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SILTY SOIL	D	Ø	N		P / F
06-12	BROWN MEDIUM SAND	↓	↓	↓		P / F
12-18	↓	↓	↓	↓		P / F
18-24	GRAVELS	M	↓	↓		P / F
24-30	COBBLES	↓	40	↓		P / F
30-36	↓ ↓	↓	60	↓		P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TP
Changed from Staked Position:

Date: 12/24/14
Test Pit No: 4-033
Excavator: 308
Weather: 40°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, ORANGE SILTY SAND	D	0	Y		P / F
06-12						P / F
12-18	DARK BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36	GRAVELS, COBBLES		40			P / F
36-42		M	60			P / F
42-48		W				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: d
Changed from Staked Position:

Date: 02/08/15
Test Pit No: 4-034
Excavator: 308
Weather: 40°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	D	Ø	Y		P / F
06-12	TAN SILTY SAND			↓		P / F
12-18	BLACK SILTY CLAY			N		P / F
18-24	↓			↓		P / F
24-30		↓	↓			P / F
30-36	BROWN CLAY					P / F
36-42	↓	M				P / F
42-48		↓	↓			P / F
48-54	GRAVELS	↓	40	↓		P / F
54-60	↓, COBBLES		60			P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TYP
Changed from Staked Position:

Date: 12/24/14
Test Pit No: 4-035
Excavator: 308
Weather: 35°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN & ORANGE SILTY SAND	D	0	Y		P / F
06-12						P / F
12-18	DARK BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42		M				P / F
42-48	COARSE SAND	W	N			P / F
48-54	COBBLES, GRAVELS					P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.

TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4

Contractor: Jordan Construction

Photo ID: MP

Logged By: TYP

Changed from Staked Position:

Date: 12/24/19

Test Pit No: 4-036

Excavator: 308

Weather: 35°

GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	O	O	Y		P / F
06-12						P / F
12-18	DARK BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30	LIGHT BROWN CLAY					P / F
30-36						P / F
36-42	COARSE SAND	M				P / F
42-48		W				P / F
48-54	CO GRAVELS, COBBLES					P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TP
Changed from Staked Position:

Date: 12/24/14
Test Pit No: 4-0[illegible]
Excavator: 308
Weather: ~~[illegible]~~ 35°
GW Depth: 3'/2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, ORANGE SILTY SAND	D	Ø	Y		P / F
06-12	TAN SILTY SAND					P / F
12-18						P / F
18-24	DARK BROWN SILTY CLAY			N		P / F
24-30						P / F
30-36		M				P / F
36-42	GRAVELS, COBBLES	W	60			P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MD
Logged By: TYP
Changed from Staked Position:

Date: 12/24/14
Test Pit No: 4-038
Excavator: 308
Weather: 40°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, ORANGE SILTY SAND	D	0	Y		P / F
06-12						P / F
12-18	LIGHT BROWN SILTY CLAY			N		P / F
18-24	DARK BROWN SILTY CLAY					P / F
24-30						P / F
30-36	COARSE SAND		40			P / F
36-42	, GRAVELS, COBBLES	M	60			P / F
42-48		W				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: MP
Logged By: TJP
Changed from Staked Position:

Date: 12/24/14
Test Pit No: 4-038W
Excavator: 308
Weather: 360
GW Depth: 72'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	0	0	Y		P / F
06-12	LIGHT BROWN SILTY CLAY			N		P / F
12-18						P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: ~~[illegible]~~ NO PHOTO
Logged By: TVP
Changed from Staked Position:

Date: 01/05/15
Test Pit No: 4-038
Excavator: 308
Weather: 40°
GW Depth: 3'/2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, ORANGE & TAN SILTY SAND	D	Ø	Y		P / F
06-12	TAN SAND, COBBLES		40	N		P / F
12-18						P / F
18-24						P / F
24-30	ORANGE SAND					P / F
30-36	GRAVELS, COBBLES	M	60			P / F
36-42		W				P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NO PHOTO
Logged By: TYP
Changed from Staked Position:

Date: 01/05/15
Test Pit No: 4-040
Excavator: 308
Weather: 40
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	D	0	N		P / F
06-12	BROWN SAND					P / F
12-18						P / F
18-24						P / F
24-30		M	40			P / F
30-36	GRAVELS, COBBLES	W	60			P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: TYP
Changed from Staked Position:

Date: 01/05/15
Test Pit No: 4-041
Excavator: 308
Weather: 40
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOIL: ORANGE SILTY SAND	0	0	Y		P / F
06-12	TAN SAND					P / F
12-18	DARK BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30	ORANGE SILTY CLAY			Y		P / F
30-36				N		P / F
36-42	GRAVELS, COBBLES		40			P / F
42-48			60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: TYP
Changed from Staked Position:

Date: 01/05/15
Test Pit No: 4-042
Excavator: 308
Weather: 40°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	O	Ø	Y		P / F
06-12	ORANGE SILTY SAND					P / F
12-18	BROWN CLAY			N		P / F
18-24	DARK BROWN SILTY CLAY					P / F
24-30	TAN SILTY SAND					P / F
30-36		M	40			P / F
36-42		W	60			P / F
42-48	GRAVELS, COBBLES					P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: TYP
Changed from Staked Position:

Date: ~~[illegible]~~ 01/05/15
Test Pit No: 4-042W
Excavator: 308
Weather: 40° RAIN
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	0	Ø	Y		P / F
06-12	DARK BROWN SILTY CLAY			N		P / F
12-18						P / F
18-24						P / F
24-30	GRAVELS, COBBLES		60			P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By:
Changed from Staked Position:

Date: 02/09/15
Test Pit No: 4-043
Excavator: 308
Weather: 40°
GW Depth: 3½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND					P / F
06-12						P / F
12-18	BROWN SILTY CLAY					P / F
18-24						P / F
24-30						P / F
30-36	ORANGE MEDIUM SAND					P / F
36-42	GRAVELS					P / F
42-48	↓, COBBLES					P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TY
Logged By: C
Changed from Staked Position:

Date: 02/09/15
Test Pit No: 4-044
Excavator: 308
Weather: 40°
GW Depth: 3½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	D	Ø	N		P / F
06-12	BLACK SILTY CLAY					P / F
12-18						P / F
18-24						P / F
24-30	TAN SILTY SAND					P / F
30-36		M				P / F
36-42	ORANGE SILTY SAND	W				P / F
42-48						P / F
48-54	SILTY SAND					P / F
54-60			40-60			P / F
60-66	GRAVELS, COBBLES					P / F
66-72						

Remarks: DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By:
Changed from Staked Position:

Date: 02/09/15
Test Pit No: 4-045
Excavator: 308
Weather: 40°
GW Depth: ~~3~~ 2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS BROWN SILTY SAND	D	0	N		P / F
06-12	↓	↓	↓	↓		P / F
12-18	BROWN SILTY CLAY	↓	↓	↓		P / F
18-24	↓	M	↓	↓		P / F
24-30	~~G~~, ~~CO~~ SILT, COBBLES	↓	40	↓		P / F
30-36	↓, GRAVELS	~~M~~ ↓	60	↓		P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By:
Changed from Staked Position:

Date: 04/05/15
Test Pit No: 4-046
Excavator: 308
Weather: 40
GW Depth: 3'/2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	0	Y		P / F
06-12	GREY SILTY SAND					P / F
12-18	DARK BROWN SILTY CLAY			N		P / F
18-24	BROWN SILTY CLAY					P / F
24-30						P / F
30-36	GRAVELS	M				P / F
36-42	COBBLES	W	40			P / F
42-48		W	60			P / F
48-54		W				P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.

TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4

Contractor: Jordan Construction

Photo ID: TYP

Logged By: TYP

Changed from Staked Position:

Date: ~~12~~ 01/05/15

Test Pit No: 4-047

Excavator: 308

Weather: 40° RAIN

GW Depth: 2 1/2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, BROWN SILTY CLAY, ORANGE LENS	D	0	Y		P / F
06-12				N		P / F
12-18						P / F
18-24						P / F
24-30	MEDIUM TAN SAND	M				P / F
30-36	GRAVELS, COBBLES	W	60			P / F
36-42	, ORANGE LENS					P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks: DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 0
Test Pit No: 4-047W
Excavator: 308
Weather: 48°
GW Depth: 21

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND, SOILS	D	Ø	Y		P / F
06-12		↓		↓		P / F
12-18	LIGHT BROWN SILTY CLAY	M		N		P / F
18-24		W				P / F
24-30	GREY CLAY					P / F
30-36						P / F
36-42						P / F
42-48	GRAVELS, COBBLES	↓	60	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks: DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TP
Logged By:
Changed from Staked Position:

Date: 02/09/15
Test Pit No: 4-048
Excavator: 308
Weather: 40°
GW Depth: 5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	D	Ø	Y		P / F
06-12	TAN SILTY SAND BROWN SILTY CLAY					P / F
12-18				N		P / F
18-24						P / F
24-30						P / F
30-36	ORANGE SILTY CLAY					P / F
36-42						P / F
42-48						P / F
48-54	GRAVELS	M	50			P / F
54-60	COBBLES	W	60			P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TP
Logged By:
Changed from Staked Position:

Date: 02/09/15
Test Pit No: 4-048E
Excavator: 308
Weather: 40° WINDY
GW Depth: ~~4~~ 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	D	Ø	N		P / F
06-12	BROWN SILTY CLAY					P / F
12-18						P / F
18-24						P / F
24-30	LIGHT BROWN CLAY					P / F
30-36						P / F
36-42	ORANGE GRAVELS	M	40			P / F
42-48	, COBBLES	W	60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: TYP
Changed from Staked Position:

Date: 01/05/15
Test Pit No: 4-049
Excavator: 308
Weather: 40°
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, ORANGE & TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18	BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36		M				P / F
36-42	COARSE SAND	W	40			P / F
42-48	GRAVELS, COBBLES		60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: TYP
Changed from Staked Position:

Date: 01/05/15
Test Pit No: 4-050
Excavator: 308
Weather: 40
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, ORANGE & TAN SILTY SAND	D	0	Y		P / F
06-12						P / F
12-18	BROWN MEDIUM SAND			N		P / F
18-24	ORANGE LENS					P / F
24-30						P / F
30-36	COARSE SAND	M	40			P / F
36-42	GRAVELS, COBBLES	[illegible]	60			P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: TYP
Changed from Staked Position:

Date: 01/05/15
Test Pit No: 4-051
Excavator: 308
Weather: 40°
GW Depth: 2½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	0	Y		P / F
06-12	BROWN SILTY CLAY			N		P / F
12-18						P / F
18-24	ORANGE SILTY SAND	M				P / F
24-30	DARK BROWN CLAY	W				P / F
30-36	MEDIUM SAND					P / F
36-42	COARSE GRAVEL		40			P / F
42-48	, COBBLES		40-60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks: DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP I
Logged By:
Changed from Staked Position:

Date: 02/03/15
Test Pit No: 4-052
Excavator: 308
Weather: 400
GW Depth: 2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN SOILS	D	Ø	N		P / F
06-12	BLACK SILTY CLAY					P / F
12-18		M				P / F
18-24		W				P / F
24-30	LIGHT BROWN SILT CLAY					P / F
30-36			40			P / F
36-42	GRAVELS, COBBLES		60			P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						
66-72						

Remarks: DEWATERED

Page ___ of ___

CDM Smith

TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: T/P
Logged By: T/P
Changed from Staked Position:

Date: 07/05/15
Test Pit No: 4.053
Excavator: 308
Weather: 90°
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	ORANGE SILTY SAND	D	0	Y		P / F
06-12						P / F
12-18	BROWN SILTY CLAY			N		P / F
18-24	, COKE LENS	M				P / F
24-30		W				P / F
30-36	GREY CLAY					P / F
36-42						P / F
42-48			60			P / F
48-54	GRAVELS, COBBLES					P / F
54-60						P / F
60-66						P / F
66-72						

Remarks: TEST PIT UNSTABLE, SAMPLED DOWN TO 5'

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By:
Changed from Staked Position:

Date: 02/09/15
Test Pit No: 4-054
Excavator: 308
Weather: 40°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	D	Ø	N		P / F
06-12	BLACK SILTY CLAY					P / F
12-18						P / F
18-24						P / F
24-30	LIGHT BROWN SILTY GRAVELS					P / F
30-36	ORANGE SILTY CLAY					P / F
36-42		M	40			P / F
42-48	GRAVELS, COBBLES + COBBLES	W	60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TP
Logged By:
Changed from Staked Position:

Date: 02/09/15
Test Pit No: 4-055
Excavator: 308
Weather: 40°
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	O	Ø	N		P / F
06-12	BROWN SILTY SAND					P / F
12-18						P / F
18-24						P / F
24-30						P / F
30-36	BROWN SILTY CLAY	M				P / F
36-42	GRAVELS	W	40			P / F
42-48	COBBLES		60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.

TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: TYP
Changed from Staked Position:

Date: 01/05/14
Test Pit No: 4-056
Excavator: 308
Weather: 40°
GW Depth: 2½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	0	Y		P / F
06-12	BROWN CLAY			N		P / F
12-18						P / F
18-24	GREY CLAY	M				P / F
24-30		W				P / F
30-36			40			P / F
36-42	COARSE SAND		60			P / F
42-48	GRAVELS, COBBLES					P / F
48-54						P / F
54-60						P / F
60-66						
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.

TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4

Contractor: Jordan Construction

Photo ID: TYP

Logged By: ↓

Changed from Staked Position:

Date: 01/06/15

Test Pit No: 4-056W

Excavator: 308

Weather: 40°

GW Depth: 2½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	ORANGE SILTY SAND, SOILS	O	O	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	BROWN MEDIUM SAND, SILTY CLAY	↓	↓	N		P / F
18-24	↓	MM	↓	↓		P / F
24-30	↓	W	↓	↓		P / F
30-36	GRAVELS, COBBLES	↓	60	↓		P / F
36-42	↓	↓	↓	↓		P / F
42-48	↓					P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks: DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 02/09/15
Test Pit No: 4-057
Excavator: 308
Weather: 40°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	D	Ø	Y		P / F
06-12	TAN SILTY SAND					P / F
12-18	↓			↓		P / F
18-24	BROWN SILTY CLAY			N		P / F
24-30						P / F
30-36		↓	↓			P / F
36-42	& GRAVELS	M	40			P / F
42-48	↓ , COBBLES	W	60	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 02/09/15
Test Pit No: 4-0575
Excavator: 308
Weather: 40°
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	D	Ø	Y		P / F
06-12	TAN SILTY SAND	↓	↓	↓		P / F
12-18	↓					P / F
18-24	BROWN SILTY CLAY			N		P / F
24-30	↓	↓		↓		P / F
30-36	↓	M	↓			P / F
36-42	GRAVELS	W	40			P / F
42-48	↓	↓	↓	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 02/05/15
Test Pit No: 4-058
Excavator: 308
Weather: 40° WINDY
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12	BROWN SILTY CLAY			N		P / F
12-18						P / F
18-24						P / F
24-30						P / F
30-36	BROWN MEDIUM SAND					P / F
36-42		M				P / F
42-48	GRAVELS	W	40			P / F
48-54	COBBLES		60			P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By:
Changed from Staked Position:

Date: 02/03/15
Test Pit No: 4-059
Excavator: 308
Weather: 40°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN SOILS	D	0	N		P / F
06-12	BROWN SILTY CLAY					P / F
12-18						P / F
18-24						P / F
24-30						P / F
30-36	COARSE SAND					P / F
36-42		M				P / F
42-48	GRAVELS, COBBLES	W	60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

10

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TP
Logged By:
Changed from Staked Position:

Date: 02/03/15
Test Pit No: 4-059E
Excavator: 308
Weather: ~~30~~ 40°
GW Depth: >3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY CLAY	D	Ø	N		P / F
06-12	BLACK SILTY CLAY					P / F
12-18	LIGHT BROWN SILTY CLAY					P / F
18-24						P / F
24-30	BROWN CLAY					P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TP
Logged By: L
Changed from Staked Position:

Date: 02/03/15
Test Pit No: 4-059W
Excavator: 308
Weather: 400
GW Depth: ~~7~~ 2½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	D	0	N		P / F
06-12	LIGHT BROWN SILTY CLAY	↓	↓	↓		P / F
12-18	BLACK SILTY CLAY	↓	↓	↓		P / F
18-24	↓	M	↓	↓		P / F
24-30	SILTY SAND, COBBLES	W	40	↓		P / F
30-36	GRAVELS, ↓	↓	60	↓		P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: C
Changed from Staked Position:

Date: 02/05/15
Test Pit No: 4-060
Excavator: 308
Weather: 40° WINDY
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18						P / F
18-24	ORANGE SILTY SAND					P / F
24-30	BROWN SILTY CLAY			N		P / F
30-36						P / F
36-42						P / F
42-48		M				P / F
48-54	GRAVELS	W	40			P / F
54-60	COBBLES		60			P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 02/05/15
Test Pit No: 4-0605
Excavator: 308
Weather: 40° WINDY
GW Depth: 3½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS BROWN SILTY CLAY	D	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	BLACK CLAY			N		P / F
18-24	↓			↓		P / F
24-30	↓	↓	↓			P / F
30-36	BROWN MEDIUM SAND	M				P / F
36-42	↓	W	↓			P / F
42-48	↓, GRAVELS	↓	40	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 02/05/15
Test Pit No: Y-060E
Excavator: 308
Weather: 40° WINDY
GW Depth: 3½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	O	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	ORANGE SILTY CLAY					P / F
18-24	BLACK SILTY CLAY			N		P / F
24-30	↓	↓		↓		P / F
30-36		M				P / F
36-42	BROWN MEDIUM SAND	W	↓			P / F
42-48	↓ GRAVELS	↓	40	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: N/A
Logged By:
Changed from Staked Position:

Date: 02/09/15
Test Pit No: 4-061
Excavator: 308
Weather: 40°
GW Depth: 2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	GRAVELLY SAND	D	0	N		P / F
06-12	GRAVELS		40			P / F
12-18	COBBLES	M	60			P / F
18-24		W				P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TP
Logged By: ↓
Changed from Staked Position: 15' WEST

Date: 02/09/15
Test Pit No: 4-062
Excavator: 308
Weather: 40°
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SILTY SOILS GRAVELS	D	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	ORANGE SILTY SAND					P / F
18-24		↓	↓			P / F
24-30	GRAVELS	M	40			P / F
30-36	, COBBLES	W	60			P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TP
Logged By: L
Changed from Staked Position:

Date: 02/09/15
Test Pit No: 4-063
Excavator: 308
Weather: 40°
GW Depth: 3½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18						P / F
18-24						P / F
24-30	ORANGE SILTY CLAY	↓	↓	N		P / F
30-36	BROWN CLAY	M				P / F
36-42	GRAVELS	W	40	↓		P / F
42-48	& ↓ COBBLES	↓	60	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks: SLICKEN

Page ___ of ___

CDM Smith, Inc.

TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4

Contractor: Jordan Construction

Photo ID: TYP

Logged By:

Changed from Staked Position:

Date: 02/09/15

Test Pit No: Y-0635

Excavator: 308

Weather: 40°

GW Depth: >4

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	D	Ø	N		P / F
06-12	BLACK SILTY CLAY					P / F
12-18						P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48	+ COBBLES		60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.

TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4

Contractor: Jordan Construction

Photo ID: TYP

Logged By: TYP

Changed from Staked Position:

Date: 01/06/15

Test Pit No: 4-064

Excavator: 308

Weather: 40°

GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18	BROWN SILTY CLAY			N		P / F
18-24	DARK BROWN SILTY CLAY					P / F
24-30						P / F
30-36		M				P / F
36-42	MEDIUM SAND	W	60			P / F
42-48	, COBBLES					P / F
48-54						P / F
54-60						P / F
60-66						
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/06/15
Test Pit No: 4-065
Excavator: 308
Weather: 40°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18	BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30	LIGHT BROWN CLAY					P / F
30-36						P / F
36-42	COARSE GRAVEL	M	40			P / F
42-48	COARSE GRAVEL, COBBLES	W	60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/06/15
Test Pit No: ~~4-065~~ 4-065W
Excavator: 308
Weather: 40°
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOIL, ORANGE SILTY SAND	D	0	Y		P / F
06-12				↓		P / F
12-18	LIGHT BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36		M				P / F
36-42	GRAVELS, COBBLES	W	40			P / F
42-48		↓	60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks: DEWATERED

Page ___ of ___

CDM Smith, Inc.

TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4

Contractor: Jordan Construction

Photo ID: TYP

Logged By:

Changed from Staked Position:

Date: 01/07/14

Test Pit No: 4-066

Excavator: 308

Weather: 35°

GW Depth: 3½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, COARSE MEDIUM SAND	D	0	N		P / F
06-12						P / F
12-18			60			P / F
18-24	GRAVELS, COBBLES					P / F
24-30						P / F
30-36		M				P / F
36-42		W				P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: 178
Logged By:
Changed from Staked Position:

Date: 02/03/15
Test Pit No: 4-067
Excavator: 308
Weather: 35°
GW Depth: 41

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN SILTY CLAY	D	Ø	N		P / F
06-12	BLACK CLAY					P / F
12-18						P / F
18-24						P / F
24-30						P / F
30-36	BROWN SILTY CLAY					P / F
36-42		M				P / F
42-48		W				P / F
48-54	GRAVELS		40			P / F
54-60	COBBLES		60			P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 02/03/15
Test Pit No: 4-067G
Excavator: 308
Weather: 40°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	Ø	Ø	N		P / F
06-12	BROWN SILTY CLAY					P / F
12-18	TAN SILTY SAND					P / F
18-24	BROWN CLAY					P / F
24-30						P / F
30-36						P / F
36-42		M				P / F
42-48	SILTY SAND, CLAY	W				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: L
Changed from Staked Position:

Date: 02/03/15
Test Pit No: 4-067W
Excavator: 308
Weather: 35°
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY CLAY	D	0	N		P / F
06-12	BROWN SILTY CLAY					P / F
12-18						P / F
18-24	LIGHT BROWN CLAY					P / F
24-30						P / F
30-36	BROWN SILTY CLAY	M				P / F
36-42		W				P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/07/15
Test Pit No: 4-068
Excavator: 308
Weather: 35°
GW Depth: 4½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	ORANGE SILTY SAND	P	0	Y		P / F
06-12						P / F
12-18						P / F
18-24						P / F
24-30	GREY SILTY CLAY			N		P / F
30-36	BROWN SILTY CLAY					P / F
36-42						P / F
42-48						P / F
48-54		W				P / F
54-60	GRAVELS, COBBLES		60			P / F
60-66						P / F
66-72						P / F

Remarks: SICKEN AREA

Page ___ of ___

CDM Smith, Inc.

TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4

Contractor: Jordan Construction

Photo ID: TYP

Logged By: TYP

Changed from Staked Position:

Date: 01/~~15~~ 05/15

Test Pit No: 4-069

Excavator: 308

Weather: 35°

GW Depth: 4'/2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, ORANGE SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18						P / F
18-24	GREY SILTY CLAY			N		P / F
24-30	BROWN SILTY CLAY					P / F
30-36						P / F
36-42						P / F
42-48	COARSE SAND, COBBLES		40%			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYC
Logged By: [illegible]
Changed from Staked Position:

Date: 02/05/15
Test Pit No: 4-070
Excavator: 308
Weather: 35°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	0	Y		P / F
06-12						P / F
12-18	BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42		M				P / F
42-48		W				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TP
Logged By: ↓
Changed from Staked Position:

Date: 02/09/15
Test Pit No: 4-071
Excavator: 308
Weather: 40°, RAIN
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	D	Ø	N		P / F
06-12	TAN SILTY CLAY	↓	↓	↓		P / F
12-18	BLACK SILTY CLAY	↓	↓	↓		P / F
18-24	↓	↓	↓	↓		P / F
24-30	↓	M	↓	↓		P / F
30-36	GRAVELS, COBBLES	W	60	↓		P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 02/05/15
Test Pit No: 4-072
Excavator: 308
Weather: 40° WINDY
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	BROWN SILTY CLAY			N		P / F
18-24	↓			↓		P / F
24-30						P / F
30-36	BROWN MEDIUM SAND	↓				P / F
36-42	↓	M	↓			P / F
42-48	GRAVELS	W	40			P / F
48-54	↓ COBBLES	↓	60	↓		P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

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CDM Smith, Inc.

TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4

Contractor: Jordan Construction

Photo ID: TYP

Logged By:

Changed from Staked Position:

Date: 01/07/15

Test Pit No: 4-073

Excavator: 308

Weather: 35°

GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	COARSE GRAVEL, COBBLES	D	40-60	N		P / F
06-12						P / F
12-18						P / F
18-24		M				P / F
24-30		W				P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.

TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4

Contractor: Jordan Construction

Photo ID: TYP

Logged By:

Changed from Staked Position:

Date: 01/07/15

Test Pit No: 4-074

Excavator: 308

Weather: 30°

GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	Ø	Y		P / F
06-12	BROWN SILTY CLAY					P / F
12-18	MEDIUM SAND			N		P / F
18-24	DARK BROWN SILTY CLAY					P / F
24-30						P / F
30-36	MEDIUM SAND	M				P / F
36-42	GRAVELS, COBBLES	W	60			P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						
66-72						

Remarks: SLICKEN AREA

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By:
Changed from Staked Position:

Date: 01/07/15
Test Pit No: 4-075
Excavator: 308
Weather: 25
GW Depth: 4½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18						P / F
18-24	DARK BROWN SILTY CLAY			N		P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48		M				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/07/15
Test Pit No: 4-076
Excavator: 308
Weather: 35°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	↓	↓	↓	↓		P / F
18-24	↓	↓	↓	↓		P / F
24-30	↓	↓	↓	↓		P / F
30-36	DARK BROWN SILTY SE CLAY	↓	↓	N		P / F
36-42	↓	M	↓	↓		P / F
42-48	COARSE GRAVEL	W	40	↓		P / F
48-54	GRAVELS, COBBLES	↓	60	↓		P / F
54-60	↓	↓	↓	↓		P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/07/15
Test Pit No: 4-077
Excavator: 308
Weather: 35°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, SILTY SAND	D	0	N		P / F
06-12				↓		P / F
12-18	TAN SILTY SAND			Y		P / F
18-24	BROWN SILTY CLAY			N		P / F
24-30						P / F
30-36		↓	↓			P / F
36-42	COARSE SAND	~~SAT~~ M	40			P / F
42-48	GRAVELS, COBBLES	~~SAT~~ W	60	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By:
Changed from Staked Position:

Date: 01/07/15
Test Pit No: 4-077N
Excavator: 308
Weather: 35°
GW Depth: 74'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	Ø	Ø	N		P / F
06-12	TAN SILTY SAND			Y		P / F
12-18	DARK BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36	ORANGE SILTY SAND					P / F
36-42	GRAVELS, COBBLES		60			P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/07/15
Test Pit No: 4-077N1W
Excavator: 308
Weather: 35
GW Depth: >2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	D	Ø	N		P / F
06-12	TAN SILTY SAND	↓	↓	Y		P / F
12-18	DARK BROWN SILTY CLAY	↓	↓	N		P / F
18-24	↓	↓	↓	↓		P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: ~~PAP~~ TYP
Logged By: TYP
Changed from Staked Position:

Date: 01/07/14
Test Pit No: 4-078
Excavator: 308
Weather: 300
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, BROWN SILTY SAND	0	0	N		P / F
06-12						P / F
12-18						P / F
18-24	BROWN SILTY CLAY					P / F
24-30						P / F
30-36						P / F
36-42		M				P / F
42-48	DARK BROWN SILTY CLAY	W				P / F
48-54	COARSE SAND		40			P / F
54-60	, COBBLES		60			P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TP
Logged By: ↓
Changed from Staked Position:

Date: 02/03/15
Test Pit No: 4-079
Excavator: 308
Weather: 35°
GW Depth: 41

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN SILTY CLAY	D	Ø	N		P / F
06-12	BLACK CLAY					P / F
12-18						P / F
18-24						P / F
24-30						P / F
30-36	BROWN SILTY CLAY, SAND					P / F
36-42		M				P / F
42-48		W				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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Z

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TIP
Logged By:
Changed from Staked Position:

Date: 02/03/15
Test Pit No: 4-079C
Excavator: 308
Weather: 40°
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	D	0	N		P / F
06-12	~~BARO~~ BROWN SILTY CLAY					P / F
12-18						P / F
18-24	BLACK CLAY					P / F
24-30		M				P / F
30-36	GRAVELS, COBBLES	W	60			P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 07/05/15
Test Pit No: 4-080
Excavator: 308
Weather: 40
GW Depth: > 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	0	0	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	BROWN SILTY CLAY			N		P / F
18-24	↓	↓	↓	↓		P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 02/05/15
Test Pit No: 4-081
Excavator: 308
Weather: 40°
GW Depth: ~~4~~ 3½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12	↓ BROWN SILTY CLAY	↓	↓	↓		P / F
12-18	↓	↓	↓	N		P / F
18-24	↓	↓	↓	↓		P / F
24-30	↓	↓	↓	↓		P / F
30-36	↓	M	↓	↓		P / F
36-42	MEDIUM SAND	W	↓	↓		P / F
42-48	↓	↓	↓	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TP
Logged By: ↓
Changed from Staked Position:

Date: 02/05/15
Test Pit No: 4-082
Excavator: 308
Weather: 40°, WINDY
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	BLACK SILTY CLAY			N		P / F
18-24	↓	↓	↓	↓		P / F
24-30						P / F
30-36						P / F
36-42		↓	↓	↓		P / F
42-48		M	↓	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 02/05/15
Test Pit No: 4-083
Excavator: 308
Weather: 40° WINDY
GW Depth: 5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	O	Ø	Y		P / F
06-12	↓			↓		P / F
12-18	BLACK SILTY & CLAY			N		P / F
18-24	↓					P / F
24-30	BROWN CLAY					P / F
30-36						P / F
36-42						Ø / F
42-48	↓	↓				Ø / F
48-54	↓	M				P / F
54-60	COARSE SAND	W	↓			P / F
60-66	↓ GRAVELS	↓	40			P / F
66-72	↓, COBBLES		60	↓		P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/07/15
Test Pit No: 4-084
Excavator: 308
Weather: 28°
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	ORANGE SILTY SAND	D	Ø	Y		P / F
06-12				↓		P / F
12-18	GREY MEDIUM SAND			N		P / F
18-24						P / F
24-30		↓				P / F
30-36	, COKE LENS	M	↓			P / F
36-42		W	40			P / F
42-48	GRAVELS, COBBLES	↓	60	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/06/15
Test Pit No: 4-085
Excavator: 308
Weather: 40°
GW Depth: 4½

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, ORANGE SILTY SAND	D	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	↓	↓	↓	↓		P / F
18-24	BROWN SILTY SAND	↓	↓	N		P / F
24-30	↓	↓	↓	↓		P / F
30-36	↓	↓	↓	↓		P / F
36-42	↓	↓	↓	↓		P / F
42-48	GREY MEDIUM SAND	M	↓	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/07/15
Test Pit No: 4-086
Excavator: 308
Weather: 35°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND, SOILS	0	0	Y		P / F
06-12						P / F
12-18						P / F
18-24	LIGHT BROWN SILTY CLAY			N		P / F
24-30						P / F
30-36	DARK BROWN CLAY	M	2			P / F
36-42	MEDIUM SAND, COARSE	W	40			P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 02/05/15
Test Pit No: 4-087
Excavator: 308
Weather: 40° WINDY
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12	↓			↓		P / F
12-18	BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36		↓				P / F
36-42		M				P / F
42-48	↓	W	↓			P / F
48-54	GRAVELS	↓	40	↓		P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 02/05/15
Test Pit No: 4-087E
Excavator: 308
Weather: 40°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	BROWN SILTY CLAY			N		P / F
18-24				↓		P / F
24-30						P / F
30-36		↓				P / F
36-42		M				P / F
42-48	↓	W	↓	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 02/05/15
Test Pit No: 4-088
Excavator: 308
Weather: 40° WINDY
GW Depth: 5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	0	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	LIGHT BROWN SILTY CLAY			N		P / F
18-24	↓			↓		P / F
24-30	↓					P / F
30-36	DARK BROWN CLAY					P / F
36-42	↓					P / F
42-48	↓	↓	↓	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: C
Changed from Staked Position:

Date: 02/05/15
Test Pit No: 4-089
Excavator: 308
Weather: 40° WINDY
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18	ORANGE SILTY CLAY					P / F
18-24	BROWN CLAY			N		P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 02/04/15
Test Pit No: 4-090
Excavator: 308
Weather: 400
GW Depth: ~~8~~ 5½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN, ~~SM~~ ORANGE SILTY SAND	D	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18						P / F
18-24						P / F
24-30	BROWN SILTY CLAY			N		P / F
30-36	↓			↓		P / F
36-42						P / F
42-48						P / F
48-54	COARSE SAND	↓	↓			P / F
54-60	GRAVELS	M	40			P / F
60-66	↓ COBBLES	W	60	↓		P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 02/04/15
Test Pit No: 4-091
Excavator: 308
Weather: 40°
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	~~S~~ BLACK SILTY CLAY			N		P / F
18-24	↓	↓	↓			P / F
24-30	~~COA~~ ↓, COBBLES	M	40			P / F
30-36	GRAVELS, COBBLES [illegible]	W	60	↓		P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 02/04/15
Test Pit No: 4-092
Excavator: 308
Weather: 35°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	5	Y		P / F
06-12	↓			↓		P / F
12-18	ORANGE SILTY CLAY					P / F
18-24	BROWN SILTY CLAY			N		P / F
24-30	BLACK CLAY					P / F
30-36		↓				P / F
36-42		M	↓			P / F
42-48	GRAVEL, COBBLES	W	60	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 02/04/15
Test Pit No: 4-093
Excavator: 308
Weather: 35°
GW Depth: @ 4'/21

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12	↓			↓		P / F
12-18	ORANGE SILTY SAND					P / F
18-24	BROWN SILTY CLAY			N		P / F
24-30						P / F
30-36						P / F
36-42	GRAVELS	↓	↓			P / F
42-48		M	40			P / F
48-54	↓, COBBLES	W	60	↓		P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/06/14
Test Pit No: 4-094
Excavator: 308
Weather: 40°
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, ORANGE SILTY SAND	D	Ø	Y		P / F
06-12	DARK BROWN SILTY CLAY	↓	↓	N		P / F
12-18	↓	↓	↓	↓		P / F
18-24	LIGHT BROWN SILTY CLAY	↓	↓	↓		P / F
24-30	↓	↓	↓	↓		P / F
30-36	↓	↓	↓	↓		P / F
36-42	ORANGE SILTY CLAY	↓	↓	↓		P / F
42-48	↓	↓	↓	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 02/03/15
Test Pit No: 4-095
Excavator: 308
Weather: 35°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	↓	↓	↓		P / F
06-12	BLACK SILTY CLAY					P / F
12-18	↓					P / F
18-24	MEDIUM SAND		↓			P / F
24-30	GRAVELS	↓	40			P / F
30-36	↓ COBBLES	M	60	↓		P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 02/05/15
Test Pit No: 4-096
Excavator: 308
Weather: 40° WINDY
GW Depth: ≈ 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	BLACK SILTY CLAY	↓	↓	N		P / F
18-24	↓	↓	↓	↓		P / F
24-30	↓	↓	↓	↓		P / F
30-36	↓	M	↓	↓		P / F
36-42	BROWN SILTY SAND	W	↓	↓		P / F
42-48	GRAVELS	↓	40	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 02/05/15
Test Pit No: 4-096E
Excavator: 308
Weather: 40° CALM
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	↓	↓	↓	↓		P / F
18-24	BROWN SILTY CLAY	↓	↓	N		P / F
24-30	↓	↓	↓	↓		P / F
30-36	↓	↓	↓	↓		P / F
36-42	↓	M	↓	↓		P / F
42-48	↓	W	↓	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 02/05/15
Test Pit No: 4-097
Excavator: 308
Weather: 40° CALM
GW Depth: >3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY CLAY	20	0	Y		P / F
06-12	BLACK SILTY CLAY	↓	↓	N		P / F
12-18	↓		↓	↓		P / F
18-24	↓ GRAVELS		40			P / F
24-30	COBBLES		60			P / F
30-36	↓ ↓	↓	↓	↓		P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 02/04/15
Test Pit No: 4-098
Excavator: 308
Weather: 40°
GW Depth: 5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	BLACK SILTY CLAY			N		P / F
18-24	↓			↓		P / F
24-30	BROWN CLAY					P / F
30-36	↓					P / F
36-42	↓					P / F
42-48	↓	↓	↓	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 02/04/15
Test Pit No: 4-099
Excavator: 308
Weather: 40°
GW Depth: 5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	BLACK SILTY CLAY			N		P / F
18-24	↓			↓		P / F
24-30	BROWN CLAY					P / F
30-36	↓					P / F
36-42						P / F
42-48		↓	↓			P / F
48-54		M	40			P / F
54-60	GRAVELS	W	60	↓		P / F
60-66	COBBLES					P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 02/04/15
Test Pit No: 4-100
Excavator: 308
Weather: 40°
GW Depth: ~~4~~ 3½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18						P / F
18-24	BROWN SILTY CLAY, ORANGE SILTY CLAY			N		P / F
24-30						P / F
30-36		M				P / F
36-42	DARK BROWN CLAY	W				P / F
42-48	, COARSE SAND		40			P / F
48-54	GRAVELS, COBBLES		60			P / F
54-60						P / F
60-66						P / F
66-72						

Remarks: DEWATERED, SLICKEN

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TP
Logged By: ↓
Changed from Staked Position:

Date: 02/04/15
Test Pit No: 4-101
Excavator: 308
Weather: 35'
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12	ORANGE SILTY SAND	↓	↓	↓		P / F
12-18	BROWN SILTY CLAY			N		P / F
18-24	↓			↓		P / F
24-30						P / F
30-36		↓				P / F
36-42	BROWN CLAY	M				P / F
42-48	↓	W	↓			P / F
48-54	GRAVELS, COBBLES	↓	40	↓		P / F
54-60	↓		60			P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/06/15
Test Pit No: 4-102
Excavator: 308
Weather: 40°
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	ORANGE, TAN SILTY SAND / SOILS	0	Ø	Y		P / F
06-12						P / F
12-18						P / F
18-24	GREY, ORANGE SAND					P / F
24-30	LIGHT BROWN CLAY			N		P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By:
Changed from Staked Position:

Date: 01/07/15
Test Pit No: 4-102W
Excavator: 308
Weather: 35°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18						P / F
18-24	BROWN SILTY CLAY			N		P / F
24-30						P / F
30-36						P / F
36-42		M				P / F
42-48	COARSE SAND	W				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By:
Changed from Staked Position:

Date: 01/07/15
Test Pit No: ~~4-102W~~ 4-102W2 CMP
Excavator: 308
Weather: 35°
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOIL, TAN SILTY SAND	D	0	Y		P / F
06-12						P / F
12-18	LIGHT BROWN SILTY CLAY			N		P / F
18-24	DARK BROWN SILTY CLAY					P / F
24-30						P / F
30-36	MEDIUM SAND					P / F
36-42	, CLAY					P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 02/05/15
Test Pit No: 4-103
Excavator: 308
Weather: 40°
GW Depth: @ 3½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	↓			↓		P / F
18-24	ORANGE SILTY SAND					P / F
24-30	BLACK SILTY CLAY			N		P / F
30-36	↓	↓	↓	↓		P / F
36-42	GRAVELS	M	40			P / F
42-48	↓ COBBLES	W	60	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: SLICKEN

Page ___ of ___

CDM Smith, Inc.

TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4

Contractor: Jordan Construction

Photo ID: TP

Logged By: ↓

Changed from Staked Position:

Date: 02/04/15

Test Pit No: 4-104

Excavator: 308

Weather: 35°

GW Depth: 4½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12	↓ BROWN SILTY CLAY	↓	↓	↓		P / F
12-18	BLACK SILTY CLAY			N		P / F
18-24	↓			↓		P / F
24-30						P / F
30-36						P / F
36-42	BROWN CLAY	↓				P / F
42-48	↓	M	↓			P / F
48-54	COARSE SAND	W	40			P / F
54-60	GRAVELS, COBBLES	↓	60	↓		P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By:
Changed from Staked Position:

Date: 02/02/15
Test Pit No: 4-105
Excavator: 308
Weather: 30°
GW Depth: 4'/2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	D	D	M		P / F
06-12	LIGHT BROWN SILTY CLAY					P / F
12-18						P / F
18-24						P / F
24-30	BROWN CLAY					P / F
30-36						P / F
36-42	GRAVELS, COBBLES		40			P / F
42-48		M	60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 02/05/15
Test Pit No: 4-106
Excavator: 308
Weather: 45°
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	GREY SILTY CLAY					P / F
18-24	BROWN SILTY CLAY			N		P / F
24-30	↓	↓	↓	↓		P / F
30-36		M				P / F
36-42		W				P / F
42-48		↓				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks: DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 02/05/15
Test Pit No: Y-106E
Excavator: 308
Weather: 40°
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	D	Ø	N		P / F
06-12	BROWN SILTY CLAY	↓	↓	↓		P / F
12-18	↓	↓				P / F
18-24						P / F
24-30	~~CLAY~~ BROWN MEDIUM SAND	M				P / F
30-36	↓	W	↓	↓		P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 02/05/15
Test Pit No: 4-107
Excavator: 308
Weather: 40°
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	D	0	N		P / F
06-12	BROWN SILTY CLAY					P / F
12-18						P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TP
Logged By:
Changed from Staked Position:

Date: 02/04/15
Test Pit No: 4-108
Excavator: 308
Weather: 40°
GW Depth: ~ 6'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18	BLACK SILTY CLAY			N		P / F
18-24	BROWN CLAY					P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54	DARK BROWN CLAY					P / F
54-60						P / F
60-66	COARSE & SILTY SAND	M	40			P / F
66-72	GRAVELS, COBBLES	W	60			

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TP
Logged By:
Changed from Staked Position:

Date: 02/04/15
Test Pit No: 4-109
Excavator: 308
Weather: 40°
GW Depth: 5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18	BLACK SILTY CLAY			N		P / F
18-24						P / F
24-30	BROWN SILTY CLAY					P / F
30-36						P / F
36-42	COARSE SAND, ORANGE LENS					P / F
42-48						P / F
48-54	GRAVELS	M	40			P / F
54-60	, COBBLES	W	60			P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By:
Changed from Staked Position:

Date: 02/05/15
Test Pit No: ~~4-115~~ 4-110
Excavator: 308
Weather: 40° WINDY
GW Depth: 3½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	BROWN SILTY CLAY	D	Ø	Y		P / F
	TAN SILTY SAND					P / F
06-12	ORANGE SILTY SAND					P / F
12-18						P / F
18-24	BROWN SILTY CLAY			N		P / F
24-30						P / F
30-36	BROWN MEDIUM SAND	M				P / F
36-42		W				P / F
42-48	GRAVELS, COBBLES		60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 02/04/15
Test Pit No: 4-111
Excavator: 308
Weather: 32°
GW Depth: 5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	↓					P / F
18-24	ORANGE SILTY SAND					P / F
24-30	BLACK SILTY CLAY			N		P / F
30-36	↓			↓		P / F
36-42	, ORANGE LENS					P / F
42-48						P / F
48-54	GRAVELS	M	40			P / F
54-60	↓ , COBBLES	W	60			P / F
60-66						P / F
66-72						

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/06/15
Test Pit No: 4-112
Excavator: 308
Weather: 45°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, ~~OR~~ TAN SILTY SAND	D	Ø	Y		P / F
06-12				↓		P / F
12-18	DARK BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36	MEDIUM SAND					P / F
36-42	GRAVELS, COBBLES	M	40			P / F
42-48		W	60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/07/15
Test Pit No: 4-112W
Excavator: 308
Weather: 35°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	0	Y		P / F
06-12				↓		P / F
12-18	GREY SILTY CLAY			N		P / F
18-24	BROWN SILTY CLAY					P / F
24-30						P / F
30-36		↓				P / F
36-42	COARSE SAND	M				P / F
42-48		W	↓	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/07/15
Test Pit No: 4-112 W2
Excavator: 308
Weather: 35°
GW Depth: 31

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOIL, ORANGE SILTY SAND	D	Ø	Y		P / F
06-12	↓					P / F
12-18	GREY CLAY					P / F
18-24	↓	↓	↓	↓		P / F
24-30	COARSE GRAVEL	M	↓	N		P / F
30-36	↓, COBBLES	W	60	↓		P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TW
Logged By: ✓
Changed from Staked Position:

Date: 01/08/15
Test Pit No: 4-113
Excavator: 308
Weather: 20°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN & ORANGE SILTY SAND	D	0	Y		P / F
06-12						P / F
12-18						P / F
18-24	BROWN SILTY CLAY					P / F
24-30				N		P / F
30-36						P / F
36-42	GRAVELS, COBBLES	M	60			P / F
42-48		W				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By:
Changed from Staked Position:

Date: 02/02/15
Test Pit No: 4-114
Excavator: 308
Weather: 30°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	P	Ø	N		P / F
06-12	BLACK SILTY CLAY					P / F
12-18						P / F
18-24						P / F
24-30						P / F
30-36	COARSE SAND					P / F
36-42		M				P / F
42-48	GRAVELS	W	40			P / F
48-54	COBBLES		60			P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By:
Changed from Staked Position:

Date: 02/04/15
Test Pit No: 4-115
Excavator: 308
Weather: 32°
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS BROWN SILTY CLAY	D	Ø	N		P / F
06-12						P / F
12-18	BROWN MEDIUM SAND					P / F
18-24						P / F
24-30	GRAVELS, COBBLES	M	40			P / F
30-36		W	60			P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: L
Changed from Staked Position:

Date: 02/03/15
Test Pit No: 4-116
Excavator: 308
Weather: 40°
GW Depth: 41

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS THIN SILTY SAND	D	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	BLACK SILTY CLAY	↓	↓	N		P / F
18-24	↓	↓	↓	↓		P / F
24-30	↓	↓	↓	↓		P / F
30-36	↓	↓	↓	↓		P / F
36-42	BROWN CLAY	M	↓	↓		P / F
42-48	↓	↓	↓	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 02/03/15
Test Pit No: 4-117
Excavator: 308
Weather: 40°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOIL TAN SILTY SAND	D	Ø	Y		P / F
06-12	↓			↓		P / F
12-18	BLACK SILTY CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42	BROWN CLAY	M				P / F
42-48	↓	W	↓	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 02/03/15
Test Pit No: 4-11B
Excavator: 308
Weather: 40°
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	BLACK SILTY CLAY			N		P / F
18-24	↓	↓	↓	↓		P / F
24-30	↓	↓	↓	↓		P / F
30-36	BROWN CLAY	↓	↓	↓		P / F
36-42	↓	↓	↓	↓		P / F
42-48	↓	↓	↓	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/08/15
Test Pit No: 4-119
Excavator: 308
Weather: 20°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, ORANGE SILTY SAND	D	0	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	LIGHT BROWN SILTY CLAY			N		P / F
18-24	↓			↓		P / F
24-30						P / F
30-36	COARSE SAND	↓	↓			P / F
36-42	GRAVELS, COBBLES	M	40			P / F
42-48	↓	W	60	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By:
Changed from Staked Position:

Date: 08/08/15
Test Pit No: 4-120
Excavator: 308
Weather: 200
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	D	Y		P / F
06-12	BROWN SILTY CLAY					P / F
12-18	COARSE SAND			N		P / F
18-24	LIGHT BROWN SILTY CLAY					P / F
24-30	COARSE SAND					P / F
30-36	GRAVELS, COBBLES		40			P / F
36-42		M	60			P / F
42-48		W				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/08/15
Test Pit No: 4-121
Excavator: 308
Weather: 10°
GW Depth: 74'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	0	0	Y		P / F
06-12						P / F
12-18						P / F
18-24	GREY CLAY					P / F
24-30	LIGHT BROWN CLAY			N		P / F
30-36	DARK BROWN CLAY					P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/07/15
Test Pit No: 4-122
Excavator: 308
Weather: 35°
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18						P / F
18-24	DARK BROWN SILTY CLAY			N		P / F
24-30						P / F
30-36						P / F
36-42	COARSE SAND					P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/08/15
Test Pit No: 4-122W
Excavator: 308
Weather: 10°
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	Ø	Y		P / F
06-12	DARK BROWN SILTY CLAY			N		P / F
12-18						P / F
18-24	, COBBLES		~~Y~~ <40			P / F
24-30						P / F
30-36			Ø			P / F
36-42	GREY SILTY CLAY					P / F
42-48	, ORANGE LENS					~~P~~ F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/08/15
Test Pit No: 4-122W2
Excavator: 308
Weather: 10°
GW Depth: >3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOIL, TAN SILTY SAND	D	Ø	Y		P / F
06-12	DARK BROWN SILTY CLAY			N		P / F
12-18						P / F
18-24						P / F
24-30	TAN SILTY CLAY, COBBLES		40			P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/08/15
Test Pit No: 4-122N
Excavator: 308°
Weather: 30°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	ORANGE SILTY SAND, SOILS	D	~~0~~	Y		P / F
06-12	DARK BROWN SILTY CLAY			N		P / F
12-18						P / F
18-24						P / F
24-30						P / F
30-36		↓				P / F
36-42		M	↓			P / F
42-48	GRAVELS, COBBLES	W	~~0~~ 40	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By:
Changed from Staked Position:

Date: 01/08/15
Test Pit No: 4-122 N/W
Excavator: 308
Weather: 10°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND, COBBLES	D	Ø	Y		P / F
06-12						P / F
12-18						P / F
18-24	LIGHT BROWN SILTY CLAY			N		P / F
24-30	DARK BROWN SILTY CLAY					P / F
30-36						P / F
36-42		M				P / F
42-48		W				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/08/15
Test Pit No: 4-122N/W2
Excavator: 308
Weather: 10°
GW Depth: 84'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	↓	Ø	Y		P / F
06-12	DARK BROWN SILTY CLAY			N		P / F
12-18						P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42	TAN SILTY CLAY, COBBLES		40			P / F
42-48			60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/08/14
Test Pit No: 4-123
Excavator: 308
Weather: 28°
GW Depth: 4½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	Ø	Y		P / F
06-12	ORANGE SILTY SAND			↓		P / F
12-18	DARK BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30	LIGHT BROWN CLAY, COARSE SAND					P / F
30-36	COARSE SAND					P / F
36-42						P / F
42-48	, COBBLES	M	40			~~P / F~~
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/08/15
Test Pit No: 4.123N
Excavator: 308
Weather: 25°
GW Depth: 72' 73'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, BROWN SILTY CLAY	0	0	N		P / F
06-12	TAN + ORANGE SILTY SAND	↓	↓	Y		P / F
12-18	LIGHT BROWN SILTY CLAY	↓	↓	N		P / F
18-24	↓	↓	↓	↓		P / F
24-30	GRAVELS, COBBLES	↓	60	↓		P / F
30-36	↓	↓	↓	↓		P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By:
Changed from Staked Position:

Date: ~~07~~ 02/02/15
Test Pit No: 4-124
Excavator: 308
Weather: 300
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	D	Ø	N		P / F
06-12	BROWN SILTY CLAY					P / F
12-18						P / F
18-24	BLACK ~~SILT~~ SILTY CLAY					P / F
24-30	~~SILT~~ COARSE SAND					P / F
30-36		M				P / F
36-42		W				P / F
42-48	GRAVELS COBBLES		40			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TIP
Logged By: ↓
Changed from Staked Position:

Date: ~~04~~ 02/03/15
Test Pit No: 4-124E
Excavator: 308
Weather: 35°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	0	Ø	N		P / F
06-12	TAN SILTY CLAY	↓	↓	↓		P / F
12-18	BLACK SILTY CLAY	↓	↓	↓		P / F
18-24	↓	↓	↓	↓		P / F
24-30	↓	↓	↓	↓		P / F
30-36	↓	↓	↓	↓		P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 02/05/15
Test Pit No: 4-124W
Excavator: 308
Weather: 40° WINDY
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	D	Ø	N		P / F
06-12	BROWN SILTY CLAY	↓	↓	↓		P / F
12-18	↓	↓	↓	↓		P / F
18-24	↓	↓	↓	↓		P / F
24-30	↓	M	↓	↓		P / F
30-36	GRAVELS	W	40	↓		P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 02/03/15
Test Pit No: ~~4-124~~ 4-125
Excavator: 308
Weather: 35°
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	Ø	Y		P / F
06-12				↓		P / F
12-18	BLACK SILTY CLAY			N		P / F
18-24						P / F
24-30	BROWN CLAY					P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By:
Changed from Staked Position:

Date: 01/29/15
Test Pit No: 4-126
Excavator: 308
Weather: 40°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18	ORANGE SILTY SAND					P / F
18-24						P / F
24-30	BROWN SILTY CLAY			N		P / F
30-36						P / F
36-42	COARSE SAND	M				P / F
42-48		W				P / F
48-54	GRAVELS		40			P / F
54-60	, COBBLES		60			P / F
60-66						P / F
66-72						

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 02/03/15
Test Pit No: 4-127
Excavator: 308
Weather: 40°
GW Depth: 4'4"

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12	BLACK SILTY CLAY			N		P / F
12-18						P / F
18-24	BROWN CLAY					P / F
24-30	LIGHT BROWN SILTY CLAY					P / F
30-36						P / F
36-42	BROWN SILTY SAND					P / F
42-48		M				P / F
48-54	GRAVELS	W	40			P / F
54-60	COBBLES		60			P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TP
Logged By: ↓
Changed from Staked Position:

Date: 02/03/15
Test Pit No: 4-128
Excavator: 308
Weather: 40°
GW Depth: 4½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	0	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	↓			↓		P / F
18-24	BLACK SILTY CLAY			N		P / F
24-30	BROWN CLAY			↓		P / F
30-36	↓					P / F
36-42	↓	↓	↓			P / F
42-48	COARSE SAND	M				P / F
48-54	GRAVELS	W	40			P / F
54-60	COBBLES	↓	60	↓		P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/08/15
Test Pit No: ~~4-123~~ 4-129
Excavator: 308
Weather: 25°
GW Depth: 4'

Depth (in):	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18						P / F
18-24	DARK BROWN SILTY CLAY			N		P / F
24-30						P / F
30-36						P / F
36-42	COARSE SAND	M				P / F
42-48	GRAVELS, COBBLES	W	50			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: SLICKEN AREA

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/08/15
Test Pit No: 4-130
Excavator: 308
Weather: 30°
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	0	0	Y		P / F
06-12				↓		P / F
12-18	LIGHT BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36	DARK BROWN CLAY					P / F
36-42						P / F
42-48		↓	↓	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/29/15
Test Pit No: 4-131
Excavator: 308
Weather: 40°
GW Depth: 41'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	0	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	BLACK SILTY CLAY			N		P / F
18-24	↓			↓		P / F
24-30	BROWN CLAY					P / F
30-36	↓	↓	↓			P / F
36-42	↓	M				P / F
42-48	GRAVELS	W	40			P / F
48-54	↓ , COBBLES	↓	60	↓		P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By:
Changed from Staked Position:

Date: 01/29/15
Test Pit No: 4-132
Excavator: 308
Weather: 40°
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	R	0	Y		P / F
06-12						P / F
12-18	BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36	COARSE SAND	M				P / F
36-42	GRAVELS	W	40			P / F
42-48	, COBBLES		60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: C
Changed from Staked Position:

Date: 01/29/15
Test Pit No: 4-133
Excavator: 308
Weather: 35°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	D	Ø	N		P / F
06-12	BLACK SILTY CLAY					P / F
12-18						P / F
18-24	BROWN CLAY					P / F
24-30						P / F
30-36						P / F
36-42	COARSE SAND	M	✓			P / F
42-48	GRAVELS, COBBLES	W	60	✓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TP
Logged By: ↓
Changed from Staked Position:

Date: ~~04/24~~ 01/29/15
Test Pit No: 4-134
Excavator: 308
Weather: 40°
GW Depth: 4½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	10	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	↓ LIGHT BROWN SILTY CLAY			N		P / F
18-24	↓			↓		P / F
24-30	↓					P / F
30-36	↓					P / F
36-42	↓ BROWN SILTY SAND	↓				P / F
42-48	↓	M	↓			(P) / F
48-54	~~GR~~ GRAVELS	W	40			P / F
54-60	↓ COBBLES	↓	60	↓		P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/26/15
Test Pit No: 4-134S
Excavator: 308
Weather: 60
GW Depth: >3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	0	Ø	Y		P / F
06-12	BLACK SILTY CLAY	↓	↓	N		P / F
12-18	↓	↓	↓	↓		P / F
18-24	↓	↓	↓	↓		P / F
24-30	BROWN SAND	↓	↓	↓		P / F
30-36	COARSE GRAVEL	↓	↓	↓		P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TIP
Logged By: ↓
Changed from Staked Position:

Date: 01/29/15
Test Pit No: 4-135
Excavator: 308
Weather: 35°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN, ORANGE SILTY SAND	D	0	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	↓	↓	↓	↓		P / F
18-24	ORANGE SILTY CLAY	↓	↓	N		P / F
24-30	BLACK SILTY CLAY	↓	↓	↓		P / F
30-36	↓	↓	↓	↓		P / F
36-42	↓	M	↓	↓		P / F
42-48	GRAVELS	W	40	↓		P / F
48-54	COBBLES	↓	60	↓		P / F
54-60	↓	↓	66	↓		P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 02/03/15
Test Pit No: 4-136
Excavator: 308
Weather: 40°
GW Depth: >2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12	BLACK SILTY CLAY	↓	L	N		P / F
12-18	GRAVELS, COBBLES	↓	60	↓		P / F
18-24	↓	↓	↓	↓		P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: ~~01~~ 02/03/15
Test Pit No: 4-137
Excavator: 308
Weather: 40°
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	0	0	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	BROWN SILTY CLAY			N		P / F
18-24	↓			↓		P / F
24-30	↓	↓	↓			P / F
30-36	BLACK SILTY CLAY	M				P / F
36-42	↓	W				P / F
42-48	COARSE SAND	↓	↓			P / F
48-54	GRAVELS		40			P / F
54-60	COBBLES	↓	60	↓		P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 02/03/15
Test Pit No: 4-138
Excavator: 308
Weather: 40°
GW Depth: 4 1/2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	ORANGE SILTY SAND			↓		P / F
18-24	BROWN SILTY CLAY			N		P / F
24-30	↓			↓		P / F
30-36						P / F
36-42		↓				P / F
42-48		M	↓			P / F
48-54	SILTY CLAY, GRAVELS	W	40			P / F
54-60	↓	↓	↓			P / F
60-66	COBBLES		60			P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/08/15
Test Pit No: 4-139
Excavator: 308
Weather: 25°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	0	Y		P / F
06-12						P / F
12-18						P / F
18-24	LIGHT BROWN SILTY CLAY			N		P / F
24-30						P / F
30-36						P / F
36-42		M				P / F
42-48	MEDIUM SAND	W	40			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: L
Changed from Staked Position:

Date: 02/03/15
Test Pit No: 4-140
Excavator: 308
Weather: 35°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18						P / F
18-24	ORANGE SILTY SAND					P / F
24-30						P / F
30-36	BROWN SILTY CLAY			N		P / F
36-42		M				P / F
42-48	GRAVELS, COBBLES	W	60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: SLICKEN

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: J
Changed from Staked Position:

Date: 02/04/15
Test Pit No: 4-141
Excavator: 308
Weather: 35°
GW Depth: 21

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12				N		P / F
12-18		M				P / F
18-24	GRAVELS, COBBLES	W	40			P / F
24-30			60			P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/29/15
Test Pit No: 4-142
Excavator: 308
Weather: 400
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	P	Ø	N		P / F
06-12	BLACK SILTY CLAY	↓	↓	↓		P / F
12-18	↓					P / F
18-24						P / F
24-30	BROWN CLAY					P / F
30-36	↓	↓				P / F
36-42		M	↓			P / F
42-48	GRAVELS	W	40			P / F
48-54	↓ COBBLES	↓	60	↓		P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 02/04/15
Test Pit No: 4-143
Excavator: 308
Weather: 25°
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18						P / F
18-24						P / F
24-30	BROWN SILTY CLAY	M		N		P / F
30-36		W				P / F
36-42						P / F
42-48	GRAVELS, COBBLES	W	60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 02/03/15
Test Pit No: 4-144
Excavator: 308
Weather: 40
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	BLACK SILTY CLAY			N		P / F
18-24	GRAVELS		40			P / F
24-30	COBBLES		60			P / F
30-36	↓ ↓	↓	↓	↓		P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 02/03/15
Test Pit No: 4-145
Excavator: 308
Weather: 30°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN, ORANGE SILTY SAND	D	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	↓	↓	↓	↓		P / F
18-24	GREY SILTY SAND	↓	↓	↓		P / F
24-30	BROWN SILTY CLAY	↓	↓	N		P / F
30-36	GREY, ORANGE SILTY SAND	↓	↓	↓		P / F
36-42	↓	M	↓	↓		P / F
42-48	GRAVELS, COBBLES	W	60	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By:
Changed from Staked Position:

Date: 01/08/15
Test Pit No: 4-146
Excavator: 308
Weather: 10°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TANSILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18	BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42	COARSE SAND	M				P / F
42-48		W				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/09/15
Test Pit No: 4-146W
Excavator: 308
Weather: 10°
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND, SAND	0	Ø	Y		P / F
06-12	DARK BROWN SILTY CLAY			N		P / F
12-18						P / F
18-24						P / F
24-30	GREY SILTY CLAY					P / F
30-36						P / F
36-42	ORANGE SILTY CLAY, COBBLES		40			P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

OVER →

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By:
Changed from Staked Position:

Date: 01/29/15
Test Pit No: 4-147
Excavator: 308
Weather: 30°
GW Depth: ~~X~~ 4 1/2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS BROWN SILTY CLAY	D	0	Y		P / F
06-12	TAN SILTY SAND			N		P / F
12-18	DARK BROWN SILTY CLAY					P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42	GRAVELS		<40			P / F
42-48		M				P / F
48-54	COBBLES	W	60			P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TP
Logged By: ↓
Changed from Staked Position:

Date: 01/29/15
Test Pit No: 4-148
Excavator: 308
Weather: 35°
GW Depth: 4½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12	↓			↓		P / F
12-18	BLACK SILTY CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42		↓	↓			~~P~~ F
42-48	BROWN SILTY CLAY, COARSE SAND	M	<40			~~P~~ F
48-54		W	↓			P / F
54-60	↓, COBBLES	↓	40-60	↓		P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/29/15
Test Pit No: 4-149
Excavator: 308
Weather: 30°
GW Depth: 5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS BROWN SILTY SAND	Ø	Ø	Y		P / F
06-12	TAN SILTY SAND			↓		P / F
12-18	BROWN SILTY CLAY			N		P / F
18-24	BLACK SILTY CLAY					P / F
24-30						P / F
30-36						P / F
36-42	GRAVELS		<40			P / F
42-48		↓	↓			~~P~~ / F
48-54	COBBLES	M	40	↓		P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TP
Logged By: C
Changed from Staked Position:

Date: 01/29/15
Test Pit No: 4-149E
Excavator: 308
Weather: 40°
GW Depth: ~~4'~~ 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	Ø	Ø	Y		P / F
06-12	ORANGE SILTY CLAY LENS 1' 1' 1' 1' BLACK SILTY CLAY			N		P / F
12-18						P / F
18-24						P / F
24-30	GRAVEL		<40			P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By:
Changed from Staked Position:

Date: 01/28/15
Test Pit No: 4-150
Excavator: 308
Weather: 45°
GW Depth: 4½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS ORANGE SILTY SAND	D	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	TAN SILTY SAND					P / F
18-24	↓			↓		P / F
24-30	BROWN SILTY CLAY			N		P / F
30-36				↓		P / F
36-42	↓	↓	↓			P / F
42-48	COARSE SAND	M	↓			P / F
48-54	GRAVELS	W	40			P / F
54-60	↓ , COBBLES	↓	60	↓		P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: L
Changed from Staked Position:

Date: 02/03/15
Test Pit No: 4-151
Excavator: 308
Weather: 35°
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	D	Ø	N		P / F
06-12	BLACK SILTY CLAY					P / F
12-18						P / F
18-24	COARSE SAND					P / F
24-30	GRAVELS, COBBLES	M	40			P / F
30-36		W	60			P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.

TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4

Contractor: Jordan Construction

Photo ID: TYP

Logged By:

Changed from Staked Position:

Date: 02/04/15

Test Pit No: 4-152

Excavator: 308

Weather: 30°

GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS BLACK SILTY CLAY	D	Ø	N		P / F
06-12						P / F
12-18						P / F
18-24	GRAVELS COBBLES		40			P / F
24-30		M	60			P / F
30-36		W				P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TP
Logged By: C
Changed from Staked Position:

Date: 02/09/15
Test Pit No: 4-153
Excavator: 308
Weather: 35°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18						P / F
18-24	LIGHT BROWN SILTY CLAY			N		P / F
24-30	BROWN CLAY					P / F
30-36						P / F
36-42		M				P / F
42-48	GRAVELS, COBBLES	W	60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TP
Logged By: ↓
Changed from Staked Position:

Date: 02/09/15
Test Pit No: 4-154
Excavator: 308
Weather: 35°
GW Depth: 3½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS ORANGE SILTY SAND	0	Ø	Y		P / F
06-12	BROWN SILTY CLAY	↓	↓	↓		P / F
12-18	↓	↓	↓	N		P / F
18-24	↓	↓	↓	↓		P / F
24-30	SILTY CLAY, COBBLES	↓	↓	↓		P / F
30-36	GRAVELS, COBBLES	M	40	↓		P / F
36-42	↓	W	60	↓		P / F
42-48	↓	↓	↓	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

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7

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 02/04/15
Test Pit No: 4-155
Excavator: 308
Weather: 35°
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SAND, BROWN SAND	D	Ø	N		P / F
06-12	↓	↓	↓	↓		P / F
12-18	↓	↓	↓	↓		P / F
18-24	↓	↓	↓	↓		P / F
24-30	GRAVELS, COBBLES	M	40	↓		P / F
30-36	↓	W	60	↓		P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/08/15
Test Pit No: 4-~~[illegible]~~ 156
Excavator: 308
Weather: 10°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, ORANGE SILTY SAND	D	0	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	DARK BROWN SILTY CLAY			N		P / F
18-24	↓	↓	↓	↓		P / F
24-30	↓	↓	↓	↓		P / F
30-36	↓	↓	↓	↓		P / F
36-42	↓	M	↓	↓		P / F
42-48	COARSE SAND	W	↓	↓		(P) / F
48-54	↓					P / F
54-60	↓					P / F
60-66	↓					P / F
66-72	↓					P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: TYP
Changed from Staked Position:

Date: 1/9/15
Test Pit No: 4-156W
Excavator: 308
Weather: 10°
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	D	Ø	N		P / F
06-12	BROWN SILTY CLAY					P / F
12-18						P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42	COBBLES		40			P / F
42-48						P / F
48-54		M				P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By:
Changed from Staked Position:

Date: 01/08/15
Test Pit No: ~~[illegible]~~ 4-157
Excavator: 308
Weather: 10°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18						P / F
18-24	ORANGE SILTY SAND					P / F
24-30	DARK BROWN SILTY CLAY			N		P / F
30-36						P / F
36-42		M				P / F
42-48		W				(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: SLICKEN

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: d
Changed from Staked Position:

Date: 01/09/15
Test Pit No: ~~4-156~~ 4-158 (MP)
Excavator: 308
Weather: 10°
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18	LIGHT BROWN SILTY CLAY			N		P / F
18-24	DARK " " "					P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48	GRAVELS, COBBLES	M	60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: ~~OVER~~ → (MP)

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: TYP
Changed from Staked Position:

Date: 01/09/15
Test Pit No: 4-159
Excavator: 308
Weather: 10°
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SICTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18						P / F
18-24	Brown SICTY CLAY			N		P / F
24-30						P / F
30-36						P / F
36-42	, Cobbles		40			P / F
42-48		M				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By:
Changed from Staked Position:

Date: 02/04/15
Test Pit No: 4-160
Excavator: 308
Weather: 35°
GW Depth: 4½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	Ø	Ø	Y		P / F
06-12						P / F
12-18	ORANGE SILTY SAND					P / F
18-24						P / F
24-30	BROWN SILTY CLAY			N		P / F
30-36						P / F
36-42						P / F
42-48		M				P / F
48-54	GRAVELS	W	40			P / F
54-60						P / F
60-66	COBBLES		60			P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: C
Changed from Staked Position:

Date: 02/09/15
Test Pit No: 4-160 E/S
Excavator: 308
Weather: 40°
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	0	Ø	N		P / F
06-12	BLACK SILTY CLAY					P / F
12-18						P / F
18-24						P / F
24-30	BROWN CLAY					P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 02/09/15
Test Pit No: 4-16022
Excavator: 308
Weather: 40° RAIN
GW Depth: 34'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	D	Ø	N		P / F
06-12	TAN SILTY CLAY					P / F
12-18	BROWN SILTY CLAY					P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By:
Changed from Staked Position:

Date: 01/28/15
Test Pit No: 4-161
Excavator: 308
Weather: 45°
GW Depth: 4½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS ORANGE SILTY CLAY	O	Ø	Y		P / F
06-12						P / F
12-18						P / F
18-24						P / F
24-30	BLACK SILTY CLAY			N		P / F
30-36						P / F
36-42						P / F
42-48	COBBLES	M	40			P / F
48-54		W				P / F
54-60	GRAVELS		60			P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By:
Changed from Staked Position:

Date: 01/28/15
Test Pit No: 4-161E
Excavator: 308
Weather: 35°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	0	Ø	Y		P / F
06-12						P / F
12-18	BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30	BROWN CLAY					P / F
30-36						P / F
36-42	GRAVELS, COBBLES		60			P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TP
Logged By:
Changed from Staked Position:

Date: 01/29/15
Test Pit No: 4-16/E2
Excavator: 308
Weather: 25°
GW Depth: 5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18	BROWN SILTY CLAY					P / F
18-24	DARK BROWN SILTY CLAY			N		P / F
24-30						P / F
30-36						P / F
36-42	GRAVELS					P / F
42-48	COARSE SAND GRAVELS, COBBLES		40			P / F
48-54		M	60			P / F
54-60		W				P / F
60-66						P / F
66-72						

Remarks: 115' FROM 4-16/E - 4-16/E3 160' FROM 4-16/E2

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/29/15
Test Pit No: 4-161 E-2/N2
Excavator: 308
Weather: 40°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	0	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	↓			N		P / F
18-24	BLACK SILTY CLAY			↓		P / F
24-30	↓					P / F
30-36	↓					P / F
36-42	GRAVELS	M	40			P / F
42-48	↓ COBBLES	W	60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/29/15
Test Pit No: 4-161E2IN
Excavator: 308
Weather: 40°
GW Depth: 73'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS ORANGE TAN SILTY SAND	0	0	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	BLACK SILTY CLAY			N		P / F
18-24	↓			↓		P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: 125' NORTH OF 4-161E2

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By:
Changed from Staked Position:

Date: 01/29/15
Test Pit No: 4-16/E3
Excavator: 308
Weather: 40°
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS ORANGE, TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18	LIGHT BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36	BROWN SILTY CLAY					P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: 160' EAST OF 4-16/E2

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TIP
Logged By: ↓
Changed from Staked Position:

Date: 01/29/15
Test Pit No: Y-161 E3/N
Excavator: 308
Weather: 40°
GW Depth: >2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	0	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	BROWN SILTY CLAY			N		P / F
18-24	↓	↓	↓	↓		P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TP
Logged By:
Changed from Staked Position:

Date: 01/28/15
Test Pit No: 4-162
Excavator: 308
Weather: 45°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS ORANGE SILTY SAND	D	0	Y		P / F
06-12						P / F
12-18						P / F
18-24	ORANGE, BROWN SILTY CLAY			N		P / F
24-30						P / F
30-36	BROWN MEDIUM SAND					P / F
36-42		M				P / F
42-48	GRAVELS	W	40			P / F
48-54	, COBBLES		60			P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: C
Changed from Staked Position:

Date: 01/28/15
Test Pit No: 4-163
Excavator: 308
Weather: 45°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND					P / F
06-12						P / F
12-18	ORANGE, BROWN SILTY CLAY					P / F
18-24				N		P / F
24-30						P / F
30-36	BLACK CLAY					P / F
36-42		M				P / F
42-48		W				P / F
48-54	GRAVELS		40			P / F
54-60	, COBBLES		60			P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/28/15
Test Pit No: 4-164
Excavator: 308
Weather: 45°
GW Depth: 4'/2

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	ORANGE SILTY SAND					P / F
18-24	↓			↓		P / F
24-30	BLACK CLAY			N		P / F
30-36	↓		↓	↓		P / F
36-42	GRAVELS, COBBLES	↓	60			P / F
42-48	↓	M	↓	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By:
Changed from Staked Position:

Date: 01/09/15
Test Pit No: 4-165
Excavator: 308
Weather: 10°
GW Depth: 74'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	D	0	N		P / F
06-12	DARK BROWN SILTY CLAY					P / F
12-18						P / F
18-24						P / F
24-30						P / F
30-36	ORANGE SILTY SAND					P / F
36-42	COARSE SILTY SAND					P / F
42-48		M				(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: → OVER

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By:
Changed from Staked Position:

Date: 01/09/15
Test Pit No: 4-166
Excavator: 308
Weather: 100
GW Depth: 41

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, ORANGE SILTY SAND	D	0	Y		P / F
06-12						P / F
12-18	SILTY CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42	COARSE SAND	M				P / F
42-48	, COBBLES	W	60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

OVER →

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID:
Logged By:
Changed from Staked Position:

Date: 1/9/15
Test Pit No: 4-167
Excavator: 308
Weather: 10°
GW Depth: >4

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SIDTY SAND	D	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	SICTY CLAY	↓	↓	N		P / F
18-24	Gravels, cobbles	↓	↓	↓		P / F
24-30	↓	↓	↓	↓		P / F
30-36			↓	↓		P / F
36-42			40	↓		P / F
42-48						P / F
48-54			60			P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: TYP
Changed from Staked Position:

Date: 1/9/15
Test Pit No: 4-168
Excavator: 308
Weather: 10°
GW Depth: >2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18	SILTY CLAY			N		P / F
18-24						P / F
24-30	COARSE SAND					P / F
30-36	, COBBLES					P / F
36-42			40			P / F
42-48						P / F
48-54						P / F
54-60			60			P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/13/15
Test Pit No: 4-169
Excavator: 308
Weather: 60°
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, ORANGE SILTY SAND	D	D	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	↓	↓	↓	↓		P / F
18-24	BROWN SILTY CLAY	↓	↓	N		P / F
24-30	↓	↓	↓	↓		P / F
30-36	↓	↓	↓	↓		P / F
36-42	↓	↓	↓	↓		P / F
42-48	↓	M	↓	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/15/15
Test Pit No: 4-169W
Excavator: 308
Weather: 100
GW Depth: >2

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, BLACK, SILTY CLAY	0	0	N		P / F
06-12	↓	↓	↓	↓		P / F
12-18						P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/28/15
Test Pit No: 4-170
Excavator: 308
Weather: 45°
GW Depth: 4½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	BROWN SILTY CLAY			N		P / F
18-24	↓			↓		P / F
24-30						P / F
30-36						P / F
36-42	BLACK CLAY	↓				P / F
42-48	↓	M	↓			P / F
48-54	GRAVELS	W	40			P / F
54-60	↓ COBBLES	↓	60	↓		P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: L
Changed from Staked Position:

Date: 01/28/15
Test Pit No: 4-170 NG
Excavator: 308
Weather: ~~40~~ 45°
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY ~~SAND~~ CLAY	D	0	N		P / F
06-12	↓	↓	↓	↓		P / F
12-18	BLACK SILTY CLAY					P / F
18-24	↓	↓	↓	↓		P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/28/15
Test Pit No: 4-171
Excavator: 308
Weather: 45°
GW Depth: 4½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN, ORANGE SILTY SAND	D	0	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	↓	↓	↓	↓		P / F
18-24	↓	↓	↓	↓		P / F
24-30	LIGHT BROWN SILTY CLAY	↓	↓	N		P / F
30-36	↓	↓	↓	↓		P / F
36-42	BLACK CLAY	↓	↓	↓		P / F
42-48	↓ COBBLES	M	40	↓		P / F
48-54	GRAVELS, ↓	W	60	↓		P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/28/15
Test Pit No: 4-172
Excavator: 308
Weather: 45°
GW Depth: 4½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	0	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	ORANGE BROWN SILTY CLAY			N		P / F
18-24	↓	↓	↓	↓		P / F
24-30	↓	↓	↓	↓		P / F
30-36	BROWN CLAY	↓	↓	↓		P / F
36-42	GRAVELS, COBBLES	↓	40	↓		P / F
42-48	↓	M	60	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By:
Changed from Staked Position:

Date: 01/28/15
Test Pit No: 4-173
Excavator: 308
Weather: 45°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	0	Y		P / F
06-12						P / F
12-18	BLACK SILTY CLAY			N		P / F
18-24	BROWN SILTY SAND					P / F
24-30						P / F
30-36	COARSE SAND					P / F
36-42	, GRAVELS , COBBLES	M	60			P / F
42-48		W				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By:
Changed from Staked Position:

Date: 01/13/15
Test Pit No: ~~4-175~~ 4-174
Excavator: 308
Weather: 30°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	D	0	N		P / F
06-12	BROWN SILTY CLAY, TAN SILTY SAND					P / F
12-18						P / F
18-24						P / F
24-30						P / F
30-36	GREY SILTY CLAY					P / F
36-42		M				P / F
42-48	GRAVELS, COBBLES	W	60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: C
Changed from Staked Position:

Date: 01/13/15
Test Pit No: 4-175
Excavator: 308
Weather: 30°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	~~0~~	Y		P / F
06-12						P / F
12-18	LIGHT BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42	COARSE GRAVEL, COBBLES	M	40			P / F
42-48		W	60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/13/15
Test Pit No: 4-176
Excavator: 308
Weather: 30°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	LIGHT BROWN SILTY CLAY					P / F
18-24	↓			N		P / F
24-30	DARK BROWN CLAY			↓		P / F
30-36	↓	↓	↓			P / F
36-42	GRAVELS, COBBLES	M	60			P / F
42-48	↓	W	↓	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/13/15
Test Pit No: 4-177
Excavator: 308
Weather: 10°
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	DARK BROWN CLAY	↓	↓	N		P / F
18-24	LIGHT BROWN CLAY, COBBLES	↓	40	↓		P / F
24-30	↓	↓	↓	↓		P / F
30-36	↓	↓	↓	↓		P / F
36-42	↓	↓	↓	↓		P / F
42-48	↓	M	↓	↓		(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/15/17
Test Pit No: 4-178
Excavator: 308
Weather: 30°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	0	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	↓	↓	↓	↓		P / F
18-24	DARK BROWN SILTY CLAY	↓	↓	N		P / F
24-30	↓	↓	↓	↓		P / F
30-36	↓	↓	↓	↓		P / F
36-42	↓	M	↓	↓		P / F
42-48	GRAVELS, COBBLES	W	60	↓		~~P~~ / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By:
Changed from Staked Position:

Date: 01/28/15
Test Pit No: 4-179
Excavator: 308
Weather: 40°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	O	Ø	Y		P / F
06-12						P / F
12-18						P / F
18-24	BROWN SILTY CLAY			N		P / F
24-30						P / F
30-36	COARSE SAND					P / F
36-42		M				P / F
42-48	GRAVELS, COBBLES	W	60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/13/15
Test Pit No: 4-180
Excavator: 308
Weather: 20°
GW Depth: ~~3'~~ 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	0	Y		P / F
06-12						P / F
12-18						P / F
18-24	LIGHT BROWN SILTY CLAY			N		P / F
24-30	DARK BROWN					P / F
30-36						P / F
36-42		M	40			P / F
42-48	, COBBLES	W				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/15/15
Test Pit No: 4-180W
Excavator: 308
Weather: 10°
GW Depth: >21

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, BLACK SILTY CLAY	Ø	Ø	N		P / F
06-12						P / F
12-18						P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/13/15
Test Pit No: 4-181
Excavator: 308
Weather: 80°
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	0	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	GREY, ORANGE SILTY SAND					P / F
18-24	↓			↓		P / F
24-30	DARK BROWN SILTY CLAY			N		P / F
30-36	↓			↓		P / F
36-42	↓	↓	↓			P / F
42-48	COARSE GRAVEL	M	40	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: SLI CLEN

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/14/15
Test Pit No: 4-182
Excavator: 308
Weather: 6°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	0	Y		P / F
06-12	↓					P / F
12-18	ORANGE SILTY SAND			↓		P / F
18-24	LIGHT BROWN SILTY CLAY			N		P / F
24-30	DARK BROWN CLAY					P / F
30-36	↓	↓				P / F
36-42	COARSE GRAVEL	M	↓			P / F
42-48	↓, COBBLES	W	60	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: SLICKEN

Page ___ of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TP
Logged By:
Changed from Staked Position:

Date: 01/28/15
Test Pit No: 4-183
Excavator: 308
Weather: 40°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	D	Y		P / F
06-12						P / F
12-18	ORANGE SILTY SAND					P / F
18-24	BROWN SILTY CLAY			N		P / F
24-30						P / F
30-36						P / F
36-42	BROWN COARSE SAND	M				P / F
42-48	BLACK SILTY CLAY	W				P / F
48-54	GRAVELS					P / F
54-60	COBBLES					P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By:
Changed from Staked Position:

Date: 01/13/15
Test Pit No: 4-184
Excavator: 308
Weather: 30°
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	P	Ø	Y		P / F
06-12						P / F
12-18						P / F
18-24	LIGHT BROWN SILTY CLAY			N		P / F
24-30	DARK BROWN SILTY CLAY	M				P / F
30-36		W				P / F
36-42						(P) / F
	GRAVELS, COBBLES	W	60			P / F
						P / F
						P / F
						P / F
						P / F

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: 4 TYP
Logged By: L
Changed from Staked Position:

Date: 01/13/15
Test Pit No: 4-185
Excavator: 308
Weather: 30°
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	0	0	Y		P / F
06-12						P / F
12-18	DARK BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42	GREY CLAY					P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/13/15
Test Pit No: 4- 185N/W
Excavator: 308
Weather: 35°
GW Depth: >3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SILTY SOIL SILTY CLAY	D	Ø	N		P / F
06-12	↓	↓	↓	↓		P / F
12-18	↓	↓	↓	↓		P / F
18-24	↓	↓	↓	↓		P / F
24-30	LIGHT TAN SILTY CLAY, COBBLES	↓	60	↓		P / F
30-36	↓	↓	↓	↓		P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/27/15
Test Pit No: 4-186
Excavator: 308
Weather: ~45°
GW Depth: ~4½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	BLACK SILTY CLAY	↓	↓	N		P / F
18-24	↓	↓	↓	↓		P / F
24-30	↓	↓	↓	↓		P / F
30-36	↓	↓	↓	↓		P / F
36-42	BROWN CLAY	↓	↓	↓		P / F
42-48	↓	M	↓	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/14/15
Test Pit No: 4-187
Excavator: 308
Weather: 15°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, ORANGE SILTY SAND	D	0	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	LIGHT BROWN SILTY CLAY	↓	↓	N		P / F
18-24	↓	↓	↓	↓		P / F
24-30	↓	↓	↓	↓		P / F
30-36	DARK BROWN CLAY	↓	↓	↓		P / F
36-42	↓	M	↓	↓		P / F
42-48	COARSE SAND	W	↓	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position: 30' DUE NORTH

Date: 01/14/15
Test Pit No: 4-188
Excavator: 308
Weather: 150
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND, SOILS	D	Ø	Y		P / F
06-12						P / F
12-18						P / F
18-24						P / F
24-30	GREY SILTY CLAY			N		P / F
30-36	LIGHT BROWN SILTY CLAY					P / F
36-42		M				P / F
42-48	GRAVELS, COBBLES	W	60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/14/15
Test Pit No: 4-189
Excavator: 308
Weather: 10°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	Ø	Y		P / F
06-12				↓		P / F
12-18	DARK BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36		↓	↓			P / F
36-42	COARSE GRAVEL, COBBLES	M	60			P / F
42-48		W	↓	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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ALCONOX — $335 +50 / 4x96

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/13/15
Test Pit No: 4-190
Excavator: 308
Weather: 35°
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18						P / F
18-24	DARK BROWN SILTY CLAY			N		P / F
24-30		M				P / F
30-36		W				P / F
36-42	COBBLES		40			P / F
42-48		W				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/13/15
Test Pit No: 4-191
Excavator: 308
Weather: 25°
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	0	0	Y		P / F
06-12				↓		P / F
12-18	DARK BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36	COARSE SAND					P / F
36-42	SILTY CLAY, LARGE COBBLES		50			P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/13/15
Test Pit No: 4-19/W
Excavator: 308
Weather: 35°
GW Depth: >3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	0	0	N		P / F
06-12	SILTY CLAY	↓	↓	↓		P / F
12-18	↓	↓	↓	↓		P / F
18-24	↓	↓	↓	↓		P / F
24-30	GREY SILTY CLAY, COBBLES	↓	60	↓		P / F
30-36	↓	↓	↓	↓		P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/27/15
Test Pit No: 4-192
Excavator: 308
Weather: 40°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	D	Ø	N		P / F
06-12	BLACK SILTY CLAY	↓	↓	↓		P / F
12-18	↓					P / F
18-24	BROWN, ORANGE SILTY SAND					P / F
24-30	↓					P / F
30-36		↓				P / F
36-42		M	↓			P / F
42-48	GRAVELS, COBBLES	W	60	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: ~~01/26/15~~ 01/27/15
Test Pit No: 4-193
Excavator: 308
Weather: 40°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	BROWN SILTY CLAY			N		P / F
18-24	↓			↓		P / F
24-30						P / F
30-36		↓				P / F
36-42	↓	M	↓			P / F
42-48	GRAVELS, COBBLES	W	60	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: C
Changed from Staked Position:

Date: 01/27/15
Test Pit No: 4-1935
Excavator: 308
Weather: 55°
GW Depth: >3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	?	?	N		P / F
06-12	LIGHT BROWN SILTY SAND					P / F
12-18	BLACK SILTY CLAY					P / F
18-24						P / F
24-30						P / F
30-36						(P) / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: [illegible]
Changed from Staked Position:

Date: 01/27/15
Test Pit No: 4-193E
Excavator: 308
Weather: 55°
GW Depth: >3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	0	0	N		P / F
06-12	BLACK SILTY CLAY					P / F
12-18						P / F
18-24						P / F
24-30	BROWN CLAY					P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/27/15
Test Pit No: 4-194
Excavator: 308
Weather: ~~45°~~ 45°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12	BLACK SILTY CLAY			N		P / F
12-18						P / F
18-24	~~BLACK~~ BROWN CLAY					P / F
24-30						P / F
30-36						P / F
36-42	, COBBLES	M	40			P / F
42-48	GRAVELS,	W	60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By:
Changed from Staked Position:

Date: 01/27/15
Test Pit No: 4-195
Excavator: 308
Weather: 60°
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	0	0	N		P / F
06-12	LIGHT BROWN SILTY CLAY					P / F
12-18						P / F
18-24						P / F
24-30	BROWN CLAY					P / F
30-36						P / F
36-42	GRAVELS		40			P / F
42-48	COBBLES		60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: L
Changed from Staked Position: 30' SOUTH

Date: 01/14/15
Test Pit No: 4-196
Excavator: 308
Weather: 20
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	10	Y		P / F
06-12						P / F
12-18						P / F
18-24	LIGHT BROWN SILTY CLAY			N		P / F
24-30	DARK BROWN CLAY					P / F
30-36						P / F
36-42						P / F
42-48		M				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/14/15
Test Pit No: 4-197
Excavator: 308
Weather: 25°
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	DARK BROWN SILTY CLAY	↓	↓	N		P / F
18-24	↓	↓	↓	↓		P / F
24-30	↓	↓	↓	↓		P / F
30-36	↓	↓	↓	↓		P / F
36-42	COARSE SAND	↓	↓	↓		P / F
42-48	↓	M	↓	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/14/15
Test Pit No: 4-198
Excavator: 308
Weather: 30°
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18						P / F
18-24	LIGHT BROWN CLAY			N		P / F
24-30						P / F
30-36						P / F
36-42			40			P / F
42-48	GRAVELS, COBBLES	M	60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/13/15
Test Pit No: 4-199
Excavator: 308
Weather: 35
GW Depth: ~~5'~~ 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	0	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	DARK BROWN SILTY CLAY	↓	↓	N		P / F
18-24	BROWN SILTY CLAY	↓	↓	↓		P / F
24-30	↓	↓	↓	↓		P / F
30-36	↓	↓	↓	↓		P / F
36-42	GRAVELS, COBBLES	M	60	↓		P / F
42-48	↓	↓	↓	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TP
Logged By: ↓
Changed from Staked Position:

Date: 01/15/15
Test Pit No: 4-200
Excavator: 308
Weather: 35°
GW Depth: 4½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SILTY SAND, TAN	D	15	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	↓					P / F
18-24	GREY SILTY			✓		P / F
24-30	BLACK SILTY CLAY			N		P / F
30-36	↓			↓		P / F
36-42	↓	↓				P / F
42-48	↓	M	↓	✓		P / F
48-54	GRAVELS, COBBLES					P / F
54-60	↓ ↓					P / F
60-66	↓ ↓					P / F
66-72	↓ ↓					P / F

Remarks: SLICKEN

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TP
Logged By:
Changed from Staked Position:

Date: 01/26/15
Test Pit No: 4-201
Excavator: 308
Weather: 60°
GW Depth: 4 1/2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	0	Y		P / F
06-12						P / F
12-18	DARK BLACK SILTY CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42	BROWN CLAY					P / F
42-48	COARSE SAND	M				P / F
48-54		W				P / F
54-60	GRAVELS		40			P / F
60-66	COBBLES		40-60			P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/28/15
Test Pit No: 4-202
Excavator: 308
Weather: 40°
GW Depth: 5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS BROWN SILTY CLAY	Ø	Ø	Y		P / F
06-12	TAN SILTY SAND					P / F
12-18						P / F
18-24						P / F
24-30	LIGHT BROWN SILTY CLAY GREY LENS			N		P / F
30-36						P / F
36-42	BLACK SILTY CLAY					P / F
42-48						P / F
48-54		M				P / F
54-60	BROWN MEDIUM SAND	W				P / F
60-66						P / F
66-72	CG BOULDERS, GRAVELS		60			P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: C
Changed from Staked Position:

Date: 01/15/15
Test Pit No: 4-203
Excavator: 308
Weather: 35°
GW Depth: 4½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	0	Y		P / F
06-12						P / F
12-18	, ORANGE LENS					P / F
18-24	DARK BROWN SILTY CLAY			N		P / F
24-30						P / F
30-36						P / F
36-42	COARSE GRAVEL					P / F
42-48	, COBBLES		60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/27/15
Test Pit No: 4-204
Excavator: 308
Weather: 55°
GW Depth: 3½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS ORANGE SILTY SAND	D	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	LIGHT BROWN SILTY CLAY			N		P / F
18-24	↓			↓		P / F
24-30		↓	↓			P / F
30-36		M				P / F
36-42	GRAVELS, SILTY CLAY	W	40			P / F
42-48	↓ COBBLES	↓	60	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By:
Changed from Staked Position:

Date: 01/14/15
Test Pit No: 4-205
Excavator: 308
Weather: 25°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	Ø	Ø	Y		P / F
06-12						P / F
12-18	LIGHT BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30	BROWN CLAY					P / F
30-36						P / F
36-42		M				P / F
42-48	COARSE SAND	W				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By:
Changed from Staked Position:

Date: 01/14/15
Test Pit No: 4-206
Excavator: 308
Weather: 30°
GW Depth: 3.'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, ORANGE SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18						P / F
18-24	DARK BROWN SILTY CLAY			N		P / F
24-30	LIGHT BROWN CLAY					P / F
30-36		M				P / F
36-42	COARSE GRAVEL	W				P / F
42-48			40			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks: DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: 4 TP
Logged By:
Changed from Staked Position:

Date: 01/14/15
Test Pit No: 4-206W
Excavator: 308
Weather: 35°
GW Depth: >2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, ORANGE SILTY SAND	0	0	Y		P / F
06-12						P / F
12-18	RE: BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/14/15
Test Pit No: 4-206W2
Excavator: 308
Weather: 30°
GW Depth: >2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, SILTY CLAY	D	Ø	N		P / F
06-12	↓	↓	↓	↓		P / F
12-18	↓	↓	↓	↓		P / F
18-24	BROWN SILTY CLAY					P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By:
Changed from Staked Position:

Date: 01/15/15
Test Pit No: 4-207
Excavator: 308
Weather: 35°
GW Depth: 4 1/2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18				N		P / F
18-24	DARK BROWN SILTY CLAY					P / F
24-30						P / F
30-36						P / F
36-42		M				P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By:
Changed from Staked Position:

Date: 01/26/15
Test Pit No: 4-208
Excavator: 308
Weather: 60°
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	2	Y		P / F
06-12						P / F
12-18	BLACK SILTY CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42	BROWN CLAY	M				P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By:
Changed from Staked Position:

Date: 01/27/15
Test Pit No: 4-208E
Excavator: 308
Weather: 35°
GW Depth: >3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	0	Ø	Y		P / F
06-12	LIGHT BROWN SILTY CLAY			N		P / F
12-18	BLACK SILTY CLAY					P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: d
Changed from Staked Position:

Date: 01/15/15
Test Pit No: 4-209
Excavator: 308
Weather: 30°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOICS, TAN SICTY SAND	P	Ø	Y		P / F
06-12						P / F
12-18						P / F
18-24	BROWN COARSE SAND			N		P / F
24-30						P / F
30-36						P / F
36-42	ORANGE LENS	M	40			P / F
42-48	GRAVELS, COBBLES	W	60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: L
Changed from Staked Position:

Date: 01/15/15
Test Pit No: 4-210
Excavator: 308
Weather: 35°
GW Depth: ~~4~~ 4½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	0	Y		P / F
06-12						P / F
12-18				N		P / F
18-24	BROWN SILTY CLAY					P / F
24-30						P / F
30-36						P / F
36-42		M				P / F
42-48						P / F
48-54	GRAVELS, COBBLES					P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By:
Changed from Staked Position:

Date: 01/28/15
Test Pit No: 4-211
Excavator: 308
Weather: 40°
GW Depth: 4½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18	ORANGE SILTY CLAY			N		P / F
18-24						P / F
24-30	BROWN SILTY CLAY					P / F
30-36						P / F
36-42	MEDIUM COARSE SAND					P / F
42-48		M				P / F
48-54	GRAVELS	W				P / F
54-60	COBBLES		40-60			P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By:
Changed from Staked Position:

Date: ~~01/28/14~~ 01/28/15
Test Pit No: 4-212
Excavator: 308
Weather: ~~55~~ 40°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS BROWN SILTY CLAY, ORANGE SILTY CLAY	P	0	Y		P / F
06-12						P / F
12-18						P / F
18-24						P / F
24-30						P / F
30-36		M	40	N		P / F
36-42	GRAVELS	W	60			P / F
42-48	+, COBBLES					P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/14/15
Test Pit No: ~~4-243~~ 4-213 (NW)
Excavator: 308
Weather: 20°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	0	Y		P / F
06-12	BROWN SILTY CLAY	↓	↓	N		P / F
12-18	↓	↓	↓	↓		P / F
18-24	COARSE SAND	↓	↓	↓		P / F
24-30	↓	↓	↓	↓		P / F
30-36	GRAVELS, COBBLES	↓	40	↓		P / F
36-42	↓	M	60	↓		P / F
42-48	↓	W	↓	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/14/15
Test Pit No: 4-214
Excavator: 308
Weather: 20°
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	O	15	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	↓	↓	↓	↓		P / F
18-24	DARK BROWN SILTY CLAY	↓	↓	N		P / F
24-30	↓	↓	↓	↓		P / F
30-36	↓	↓	↓	↓		P / F
36-42	COARSE SAND	↓	↓	↓		P / F
42-48	GRAVELS, COBBLES	M	40	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/14/15
Test Pit No: 4-214W
Excavator: 308
Weather: 30°
GW Depth: >2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	Ø	Ø	Y		P / F
06-12	DARK BROWN SILTY CLAY	↓	↓	N		P / F
12-18	↓			↓		(P) / F
18-24						~~P~~ / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: Typ
Logged By: ↓
Changed from Staked Position:

Date: 01/15/15
Test Pit No: 4-215
Excavator: 308
Weather: 35°
GW Depth: 4½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, ~~SA~~ TAN SILTY SAND	D	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	BROWN SILTY CLAY			N		P / F
18-24	↓	↓	↓	↓		P / F
24-30	↓	↓	↓	↓		P / F
30-36	COARSE SAND	↓	↓	↓		P / F
36-42	↓	↓	↓	↓		P / F
42-48	↓	M	↓	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/26/15
Test Pit No: 4-216
Excavator: 308
Weather: 55°
GW Depth: 4½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN, SILTY SAND	D	0	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	BROWN SILTY CLAY			N		P / F
18-24	↓			↓		P / F
24-30						P / F
30-36	LIGHT BROWN CLAY					P / F
36-42	↓	↓	↓			P / F
42-48	GRAVELS	M	40	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: C
Changed from Staked Position:

Date: 01/15/15
Test Pit No: 4-217
Excavator: 308
Weather: 30°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	0	Y		P / F
06-12	BROWN SILTY CLAY					P / F
12-18						P / F
18-24						P / F
24-30	COARSE SAND		40	N		P / F
30-36	GRAVELS, COBBLES		60			P / F
36-42		M				P / F
42-48		W				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/26/15
Test Pit No: 4-218
Excavator: 308
Weather: ≈60°
GW Depth: 4½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	0	0	Y		P / F
06-12	TAN SILTY SAND					P / F
12-18	BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42	LIGHT BROWN CLAY					P / F
42-48		M				(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: C
Changed from Staked Position:

Date: 01/26/15
Test Pit No: 4-219
Excavator: 308
Weather: 60°
GW Depth: 4½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS ORANGE, TAN SILTY SAND	D	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	BROWN SILTY CLAY			N		P / F
18-24	↓			↓		P / F
24-30						P / F
30-36						P / F
36-42		↓				P / F
42-48	↓ GRAVELS	M	↓			P / F
48-54	↓	W	40			P / F
54-60	↓ COBBLES	↓	40-60	↓		P / F
60-66						P / F
66-72						P / F

Remarks: MR. MOLE DIED HERE

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/15/15
Test Pit No: 4-221
Excavator: 308
Weather: ~~30~~ 35°
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18	LIGHT BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30	DARK BROWN CLAY					P / F
30-36		M				P / F
36-42	COARSE GRAVEL	W				P / F
42-48	, COBBLES		60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/15/15
Test Pit No: 4-222
Excavator: 308
Weather: 20°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, SILTY SAND (ORANGE)	0	0	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	DARK BROWN SILTY CLAY					P / F
18-24	↓			N		P / F
24-30	↓			↓		P / F
30-36	COARSE SAND	↓	↓			P / F
36-42	↓	M	↓			P / F
42-48	↓, COBBLES	W	40	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 011/15/15
Test Pit No: 4-223
Excavator: 308
Weather: 10°
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12	↓			↓		P / F
12-18	LIGHT BROWN SILTY CLAY			N		P / F
18-24	↓					P / F
24-30	DARK BROWN SILTY CLAY					P / F
30-36						P / F
36-42	↓	↓	↓			P / F
42-48	COARSE SAND, COBBLES	M	40	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/14/15
Test Pit No: 4-224
Excavator: 308
Weather: 230°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	BROWN SILTY CLAY	↓	↓	N		P / F
18-24	↓	↓	↓	↓		P / F
24-30	↓	↓	↓	↓		P / F
30-36	↓	↓	↓	↓		P / F
36-42	↓	M	↓	↓		P / F
42-48	COARSE GRAVEL	W	40	✓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/14/15
Test Pit No: 4-224W
Excavator: 308
Weather: 15°
GW Depth: >7'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOIL: BROWN SILTY ~~SAND~~ CLAY	↓	↓	N		P / F
06-12	↓	↓	↓	↓		P / F
12-18	BLACK SILTY CLAY	↓	↓	↓		P / F
18-24	↓	↓	↓	↓		P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: L
Changed from Staked Position:

Date: 01/19/15
Test Pit No: 4-224W2
Excavator: 308
Weather: 150
GW Depth: >21

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, BROWN SILTY CLAY	D	Ø	N		P / F
06-12						P / F
12-18	BLACK SILTY CLAY					P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By:
Changed from Staked Position:

Date: 01/26/15
Test Pit No: 4-225
Excavator: 308
Weather: 50°
GW Depth: 5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18	BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36	BROWN MEDIUM SAND					P / F
36-42						P / F
42-48						P / F
48-54	GRAVELS	M				P / F
54-60	, COBBLES	W	60			P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/26/15
Test Pit No: 4-226
Excavator: 308
Weather: 60°
GW Depth: 4½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS ORANGE SILTY SAND	D	Ø	Y		P / F
06-12				↓		P / F
12-18	LIGHT BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36	BROWN CLAY					P / F
36-42		↓				P / F
42-48	COARSE SAND	M	↓			P / F
48-54	GRAVELS	W	40			P / F
54-60	COBBLES	↓	60	↓		P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/26/15
Test Pit No: 4-227
Excavator: 308
Weather: 60°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS BROWN SILTY CLAY					P / F
06-12	TAN SILTY SAND					P / F
12-18						P / F
18-24	DARK BROWN SILTY CLAY					P / F
24-30						P / F
30-36						P / F
36-42	BROWN SILTY SAND, ORANGE LENS					P / F
42-48	GRAVELS, COBBLES					P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/15/15
Test Pit No: 4-228
Excavator: 308
Weather: 15°
GW Depth: ~~4~~ 4½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12	BLACK SILTY CLAY ↓	↓	↓	N		P / F
12-18	↓	↓	↓	↓		P / F
18-24	↓	↓	↓	↓		P / F
24-30	ORANGE MEDIUM SAND	↓	↓	↓		P / F
30-36	↓	↓	↓	↓		P / F
36-42	↓	↓	↓	↓		P / F
42-48	COARSE GRAVEL, COBBLES	M	60	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/15/15
Test Pit No: 4-229
Excavator: 308
Weather: 30°
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS; TAN SILTY SAND	D	0	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	↓	↓	↓	↓		P / F
18-24	BLACK SILTY CLAY	↓	↓	N		P / F
24-30	↓	↓	↓	↓		P / F
30-36	↓	M	↓	↓		P / F
36-42	COARSE SAND	↓	↓	↓		P / F
42-48	↓ , COBBLES	↓	40	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/15/15
Test Pit No: 4-230
Excavator: 308
Weather: 10°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	0	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	↓	↓	↓	↓		P / F
18-24	↓, GREY LENS BLACK SILTY CLAY	↓	↓	↓		P / F
24-30	↓	↓	↓	N		P / F
30-36	↓	↓	↓	↓		P / F
36-42	↓	M	↓	↓		P / F
42-48	↓	W	↓	↓		P / F
48-54	↓	↓	↓	↓		P / F
54-60	↓	↓	↓	↓		P / F
60-66	↓	↓	↓	↓		P / F
66-72	↓	↓	↓	↓		P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TIP
Logged By: ↓
Changed from Staked Position:

Date: 01/15/15
Test Pit No: 4-231
Excavator: 308
Weather: 10°
GW Depth: 4½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, ~~SE~~ TAN, ORANGE SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18						P / F
18-24						P / F
24-30	BLACK SILTY CLAY			N		P / F
30-36						P / F
36-42						P / F
42-48	GRAVELS, COBBLES	M	60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By:
Changed from Staked Position:

Date: 01/15/15
Test Pit No: 4-231W
Excavator: 308
Weather: 10°
GW Depth: ~~72~~ >3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	Ø	Ø	Y		P / F
06-12						P / F
12-18	BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30	BLACK SILTY CLAY					P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TP
Logged By: ↓
Changed from Staked Position:

Date: 01/19/15
Test Pit No: 4-232
Excavator: 308
Weather: 35°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	Ø	Y		P / F
06-12	LIGHT BROWN SILTY CLAY			↓		P / F
12-18	MEDIUM GRAY SAND			N		P / F
18-24	BROWN CLAY					P / F
24-30						P / F
30-36	COARSE GRAVEL					P / F
36-42	, COBBLES	M	40			P / F
42-48		W	60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/26/15
Test Pit No: 4-233
Excavator: 308
Weather: 60°
GW Depth: 41

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	↓	↓	↓	↓		P / F
18-24	LIGHT BROWN SILTY CLAY	↓	↓	N		P / F
24-30	BROWN COARSE SAND	↓	↓	↓		P / F
30-36	↓	↓	↓	↓		P / F
36-42	GRAVELS	M	40	↓		P / F
42-48	COBBLES	W	60	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: ~~SLICKEN~~ SLICKEN, WIDENED DUE TO UNSTABLE CONDITIONS

Page ___ of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/26/15
Test Pit No: 4-234
Excavator: 308
Weather: 50°
GW Depth: 5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	0	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	LIGHT BROWN SILTY CLAY			N		P / F
18-24	↓			↓		P / F
24-30						P / F
30-36						P / F
36-42	BROWN MEDIUM SAND					P / F
42-48	↓	↓	↓			P / F
48-54		M				P / F
54-60	GRAVELS, COBBLES	W	40-60			P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.

TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4

Contractor: Jordan Construction

Photo ID: TP

Logged By:

Changed from Staked Position:

Date: 01/26/15

Test Pit No: 4-234w

Excavator: 308

Weather: 50°

GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	0	Y		P / F
06-12						P / F
12-18	DARK BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36	, COARSE SAND					P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: 7/8
Logged By: ↓
Changed from Staked Position:

Date: 01/19/15
Test Pit No: 4-235
Excavator: 308
Weather: 35°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS ORANGE, TAN SILTY SAND	D	0	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	MEDIUM FT GREY SAND, BROWN SILTY CLAY	↓	↓	N		P / F
18-24	↓	↓	↓	↓		P / F
24-30	↓	↓	↓	↓		P / F
30-36	↓	↓	↓	↓		P / F
36-42	COARSE GRAVEL	M	40	↓		P / F
42-48	↓ COBBLES ↓	W	60	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/16/15
Test Pit No: 4-236
Excavator: 308
Weather: 40°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOIL, TAN SILTEN SAND	D	Ø	Y		P / F
6-12	↓	↓	↓	↓		P / F
12-18	LIGHT BROWN SILTY CLAY					P / F
18-24	DARK SILTY CLAY			N		P / F
24-30	↓	↓	↓	↓		P / F
30-36						P / F
36-42		M				P / F
42-48	COARSE SAND	W	↓	↓		(P) / F
48-54	↓					P / F
54-60	, COBBLES					P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/16/15
Test Pit No: 4-237
Excavator: 308
Weather: 35°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	0	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	BROWN SILTY CLAY			N		P / F
18-24	↓	↓	↓	↓		P / F
24-30						P / F
30-36		↓	↓			P / F
36-42	MEDIUM SAND	M	↓			P / F
42-48	GRAVELS, COBBLES	W	60	↓		(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TP
Logged By: L
Changed from Staked Position:

Date: 01/26/15
Test Pit No: 4-238
Excavator: 308
Weather: 60°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	0	Y		P / F
06-12						P / F
12-18						P / F
18-24	LIGHT BROWN SILTY CLAY			N		P / F
24-30						P / F
30-36	DARK BROWN CLAY					P / F
36-42	, COBBLES	M	40			P / F
42-48	GRAVELS	W	60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/16/15
Test Pit No: 4-239
Excavator: 308
Weather: 30°
GW Depth: 5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	15	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	↓					P / F
18-24	BLACK SILTY CLAY			N		P / F
24-30	BROWN SILTY CLAY			↓		P / F
30-36	↓					P / F
36-42	↓	↓				P / F
42-48	COARSE SAND	M	↓			P / F
48-54	GRAVELS, COBBLES		60	↓		P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TP
Logged By: ↓
Changed from Staked Position:

Date: 01/19/15
Test Pit No: 4-240
Excavator: 308
Weather: 38°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	10	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	↓	↓	↓	↓		P / F
18-24	BROWN SILTY CLAY	↓	↓	N		P / F
24-30	↓	↓	↓	↓		P / F
30-36	↓	↓	↓	↓		P / F
36-42	GRAVELS, COBBLES	M	40	↓		P / F
42-48	↓	W	60	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/16/15
Test Pit No: 4-241
Excavator: 308
Weather: 30°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	↓	↓	↓	↓		P / F
18-24	ORANGE SILTY SAND	↓	↓	N		P / F
24-30	DARK BROWN SILTY CLAY	↓	↓	↓		P / F
30-36	↓	↓	↓	↓		P / F
36-42	↓	M	↓	↓		P / F
42-48	COARSE GRAVEL	W	40	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: SLICKEN

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TP
Logged By: ↓
Changed from Staked Position:

Date: 01/19/15
Test Pit No: 4-242
Excavator: 308
Weather: 35°
GW Depth: 4'12'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	0	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	↓	↓	↓	↓		P / F
18-24	LIGHT BROWN SILTY CLAY	↓	↓	N		P / F
24-30	↓	↓	↓	↓		P / F
30-36	↓	↓	↓	↓		P / F
36-42	↓	↓	↓	↓		P / F
42-48	COARSE GRAVEL	M	40	✓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/19/15
Test Pit No: 4-243
Excavator: 308
Weather: 35°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	↓	↓	↓	↓		P / F
18-24	DARK BROWN SILTY CLAY	↓	↓	N		P / F
24-30	↓	↓	↓	↓		P / F
30-36	LIGHT BROWN SILTY CLAY	↓	↓	↓		P / F
36-42	↓	M	↓	↓		P / F
42-48	MEDIUM SAND, ORANGE SAND LENS	W	↓	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/16/15
Test Pit No: 4-244
Excavator: 308
Weather: 400
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	Ø	Y		P / F
06-12				↓		P / F
12-18	BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30	BROWN MEDIUM SAND ~~SAND~~					P / F
30-36		↓				P / F
36-42		M	↓			P / F
42-48	GRAVELS, COBBLES	W	60	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: SLICKEN

Page ___ of ___

CDM Smith, Inc.

TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4

Contractor: Jordan Construction

Photo ID: TYP

Logged By: [illegible]

Changed from Staked Position:

Date: 01/26/15

Test Pit No: 4-245

Excavator: 308

Weather: 500

GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND, ORANGE LENS	D	0	Y		P / F
06-12	DARK BROWN SILTY CLAY			N		P / F
12-18						P / F
18-24	LIGHT BROWN SILTY CLAY					P / F
24-30						P / F
30-36						P / F
36-42	GRAVELS	M	40			P / F
42-48	COBBLES	W	60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/19/15
Test Pit No: 4-296
Excavator: 308
Weather: 35°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND ORANGE SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18						P / F
18-24	DARK BROWN SILTY CLAY					P / F
24-30				N		P / F
30-36						P / F
36-42	ORANGE SILTY SAND	M				P / F
42-48		W				P / F
48-54	GRAVELS, SILTY CLAY		40			P / F
54-60	, COBBLES		60			P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/16/15
Test Pit No: 4-247
Excavator: 308
Weather: 40°
GW Depth: >4', 5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	O	Ø	Y		P / F
06-12						P / F
12-18						P / F
18-24	LIGHT BROWN SILTY CLAY			N		P / F
24-30						P / F
30-36						P / F
36-42	DARK BROWN CLAY					P / F
42-48						P / F
48-54		M				P / F
54-60	, COBBLES	W	40			P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By:
Changed from Staked Position:

Date: 01/16/15
Test Pit No: 4-248
Excavator: 308
Weather: 35°
GW Depth: 5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	P	Ø	Y		P / F
06-12						P / F
12-18						P / F
18-24	LIGHT BROWN SILTY CLAY			N		P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: C
Changed from Staked Position:

Date: 01/16/15
Test Pit No: 4-249
Excavator: 308
Weather: 30°
GW Depth: 4 1/2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18						P / F
18-24	LIGHT BROWN SILTY CLAY					P / F
24-30	DARK BROWN SILTY CLAY			N		P / F
30-36	BROWN CLAY					P / F
36-42						P / F
42-48		M				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.

TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4

Contractor: Jordan Construction

Photo ID: TYP

Logged By:

Changed from Staked Position:

Date: 01/16/15

Test Pit No: 4-250

Excavator: 308

Weather: 30°

GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	0	Y		P / F
06-12						P / F
12-18	BROWN SILTY CLAY					P / F
18-24	TAN LENS			Y		P / F
24-30	DARK BROWN SILTY CLAY			N		P / F
30-36						P / F
36-42						P / F
42-48	COARSE GRAVEL					P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.

TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4

Contractor: Jordan Construction

Photo ID: TYP

Logged By:

Changed from Staked Position:

Date: 01/19/15

Test Pit No: 4-251

Excavator: 308

Weather: 35°

GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	15	Y		P / F
06-12						P / F
12-18						P / F
18-24						P / F
24-30	BLACK SILTY CLAY	M		N		P / F
30-36		W	60			P / F
36-42	GRAVEL, COBBLES	W				P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.

TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TP
Logged By:
Changed from Staked Position:

Date: 01/19/15
Test Pit No: 4-252
Excavator: 308
Weather: 35°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	Ø	Ø	Y		P / F
06-12						P / F
12-18						P / F
18-24						P / F
24-30	BROWN SILTY CLAY			N		P / F
30-36		M	40			P / F
36-42	, COBBLES	W				P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.

TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4

Contractor: Jordan Construction

Photo ID: TYP

Logged By: ↓

Changed from Staked Position:

Date: 01/19/15

Test Pit No: 4-253

Excavator: 308

Weather: 35°

GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	0	Y		P / F
06-12						P / F
12-18	BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36	COARSE SAND	M	40			P / F
36-42	, COBBLES	W	60			P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						
66-72						

Remarks:

Page ___ of ___

CDM

TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: NP
Logged By:
Changed from Staked Position:

Date: 01/26/15
Test Pit No: 4-254
Excavator: 308
Weather: 40°
GW Depth: ~~6~~ 5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12				N		P / F
12-18	LIGHT BROWN SILTY CLAY					P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48	MEDIUM SAND	M				P / F
48-54		W	60			P / F
54-60	COBBLES, GRAVELS					P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith

TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TP
Logged By:
Changed from Staked Position:

Date: 01/26/15
Test Pit No: 4-254W
Excavator: 308
Weather: 50°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	D	0	Y		P / F
06-12	TAN SILTY SAND					P / F
12-18	BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.

TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4

Contractor: Jordan Construction

Photo ID: TYP

Logged By:

Changed from Staked Position:

Date: 01/27/15

Test Pit No: 4-255

Excavator: 308

Weather: 40°

GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS ORANGE SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18				N		P / F
18-24	LIGHT BROWN SILTY CLAY					P / F
24-30						P / F
30-36						P / F
36-42	BLACK CLAY, COBBLES	M	40			P / F
42-48	GRAVELS,	W	60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.

TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4

Contractor: Jordan Construction

Photo ID: TYP

Logged By:

Changed from Staked Position:

Date: 01/27/15

Test Pit No: 4-256

Excavator: 308

Weather: 45°

GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	0	Y		P / F
06-12						P / F
12-18	LIGHT BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30	DARK BROWN CLAY					P / F
30-36						P / F
36-42	ORANGE SAND, COBBLES	M	40			P / F
42-48	GRAVELS,	W	60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.

TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4

Contractor: Jordan Construction

Photo ID: TYD

Logged By: [illegible]

Changed from Staked Position:

Date: 01/27/15

Test Pit No: 4-257

Excavator: 308

Weather: 55°

GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	D	0	N		P / F
06-12	~~LIGT~~ BROWN SILTY CLAY					P / F
12-18						P / F
18-24						P / F
24-30	LIGHT BROWN CLAY					P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TP
Logged By: ↓
Changed from Staked Position:

Date: 01/27/15
Test Pit No: 4.258
Excavator: 308
Weather: ~55°
GW Depth: 4'6"

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18	ORANGE SILTY SAND					P / F
18-24						P / F
24-30	LIGHT BROWN SILTY CLAY			N		P / F
30-36						[illegible]
36-42	BROWN CLAY					P / F
42-48	ORANGE LENS	M				P / F
48-54	GRAVELS, COBBLES	W	40			P / F
54-60			60			P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TP
Logged By:
Changed from Staked Position:

Date: 01/16/15
Test Pit No: 4-259
Excavator: 308
Weather: 30°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	0	Y		P / F
06-12						P / F
12-18	BROWN SILTY CLAY			N		P / F
18-24	BLACK SILTY CLAY					P / F
24-30	COARSE SAND					P / F
30-36						P / F
36-42	, ORANGE LENS	M				P / F
42-48		W				P / F
48-54						P / F
54-60	GRAVELS , COBBLES		40			P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: L
Changed from Staked Position:

Date: 01/16/15
Test Pit No: 4-260
Excavator: 308
Weather: 35°
GW Depth: 4½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18						P / F
18-24	DARK BROWN SILTY CLAY			N		P / F
24-30	BROWN CLAY					P / F
30-36	GREY COARSE SAND					P / F
36-42						P / F
42-48	, ORANGE LENS	M	C			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.

TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4

Contractor: Jordan Construction

Photo ID: TP

Logged By:

Changed from Staked Position:

Date: 01/19/15

Test Pit No: 4-261

Excavator: 308

Weather: 35°

GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18	LIGHT BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36		M	40			P / F
36-42	GRAVELS, COBBLES	W	60			P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.

TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4

Contractor: Jordan Construction

Photo ID: TYP

Logged By:

Changed from Staked Position:

Date: 01/19/15

Test Pit No: 4-262

Excavator: 308

Weather: 35°

GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	0	Y		P / F
06-12						P / F
12-18	BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30	,ORANGE LENS					P / F
30-36						P / F
36-42	GRAVELS, COBBLES	M	40			P / F
42-48		W	60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/19/15
Test Pit No: 4-263
Excavator: 308
Weather: 35°
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	Ø	X		P / F
06-12	↓	↓	↓	↓		P / F
12-18	DARK BROWN SILTY CLAY			N		P / F
18-24	↓			↓		P / F
24-30	LIGHT BROWN CLAY					P / F
30-36	↓					P / F
36-42	GRAVEL					P / F
42-48	↓ COBBLES	M	60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: 110
Logged By:
Changed from Staked Position:

Date: 01/19/15
Test Pit No: 4-263W
Excavator: 308
Weather: 30°
GW Depth: >2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	0	0	Y		P / F
06-12	DARK BROWN SILTY CLAY			N		P / F
12-18						P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.

TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TMP
Logged By: d
Changed from Staked Position:

Date: 01/26/15
Test Pit No: 4-264
Excavator: 308
Weather: 45°
GW Depth: 5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18	LIGHT BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48	BROWN SAND	M	40			P / F
48-54	GRAVELS	W	60			P / F
54-60	COBBLES					P / F
60-66						
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.

TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4

Contractor: Jordan Construction

Photo ID: TYP

Logged By:

Changed from Staked Position:

Date: 01/26/15

Test Pit No: 4-264W

Excavator: 308

Weather: 50°

GW Depth: 3½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12	LIGHT BROWN SILTY CLAY			N		P / F
12-18						P / F
18-24						P / F
24-30	BROWN SILTY CLAY (ORANGE LENS)	M				P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.

TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By:
Changed from Staked Position:

Date: 01/26/15
Test Pit No: 4-265
Excavator: 308
Weather: 40°
GW Depth: 3½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	ORANGE SILTY SAND	Ø	Ø	Y		P / F
06-12						P / F
12-18	BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36		M				P / F
36-42	COARSE GRAVEL	W	40			P / F
42-48	COBBLES		60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/27/15
Test Pit No: 4-266
Excavator: 308
Weather: ~~48~~ 55°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	D	Ø	Y		P / F
06-12	ORANGE SILTY CLAY	↓	↓	↓		P / F
12-18	↓	↓	↓	N		P / F
18-24	BLACK SILTY CLAY	↓	↓	↓		P / F
24-30	↓	↓	↓	↓		P / F
30-36	BROWN MEDIUM	↓	↓	↓		P / F
36-42	GRAVELS	M	40	↓		P / F
42-48	↓ . COBBLES	W	60	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/27/15
Test Pit No: 4-267
Excavator: 308
Weather: 55°
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	0	Ø	Y		P / F
06-12	TAN SILTY SAND	↓	↓	N		P / F
12-18	BLACK SILTY CLAY	↓	↓	↓		P / F
18-24	↓	↓	↓	↓		P / F
24-30	↓	↓	↓	↓		P / F
30-36	↓	↓	↓	↓		P / F
36-42	BROWN CLAY	↓	↓	↓		P / F
42-48	↓	↓	↓	↓		P / F
48-54	↓	↓	↓	↓		P / F
54-60	↓	↓	↓	↓		P / F
60-66	↓	↓	↓	↓		P / F
66-72	↓	↓	↓	↓		P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: TYP
Changed from Staked Position:

Date: 01/21/15
Test Pit No: 4-268
Excavator: 308
Weather: 29°
GW Depth: 4½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	0	Y		P / F
06-12	↓	↓	↓	N		P / F
12-18	Light Brown SILTY CLAY			↓		P / F
18-24	DARK BROWN SILTY CLAY					P / F
24-30	↓		↓			P / F
30-36	TAN MEDIUM SAND		40			P / F
36-42	GRAVEL, Cobbles	↓	60	↓		P / F
42-48	↓	M	↓			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: SLICKEN AREA

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: TYP
Changed from Staked Position:

Date: 01/21/15
Test Pit No: 4-269
Excavator: 308
Weather: 29°
GW Depth: 4½

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	Soils TAN SILTY SAND	D	Ø	Y		P / F
06-12	↓					P / F
12-18	↓					P / F
18-24	↓					P / F
24-30	ORANGE SILTY SAND					P / F
30-36	↓					P / F
36-42	↓	M				P / F
42-48	↓					P / F
48-54	GREY SAND BLACK Orange LENS	W	40	N		P / F
54-60			60	↓		P / F
60-66	GRAVELS					P / F
66-72	↓ Cobbles					

Remarks: Dewatered

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: TYP
Changed from Staked Position:

Date: 01/21/15
Test Pit No: 4-270
Excavator: 308
Weather: 29°
GW Depth: 5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, ORANGE SILTY TAN SAND	D	Ø	Y		P / F
06-12						P / F
12-18						P / F
18-24	DARK SILTY BROWN CLAY			N		P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48		M				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By:
Changed from Staked Position:

Date: 01/19/15
Test Pit No: 4-271
Excavator: 308
Weather: 35°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18				N		P / F
18-24	BROWN SILTY CLAY					P / F
24-30						P / F
30-36	COARSE SAND GRAVELS, COBBLES	M	60			P / F
36-42		W				P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By:
Changed from Staked Position:

Date: 01/19/15
Test Pit No: 4-272
Excavator: 308
Weather: 35°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18	ORANGE LENS					P / F
18-24	BLACK SILTY CLAY			N		P / F
24-30						P / F
30-36						P / F
36-42	COARSE GRAVEL	M				P / F
42-48	, COBBLES	W	60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.

TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4

Contractor: Jordan Construction

Photo ID: TYP

Logged By: ↓

Changed from Staked Position:

Date: 01/19/15

Test Pit No: 4-272W

Excavator: 308

Weather: 25°

GW Depth: 72'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	0	0	N		P / F
06-12	BROWN SILTY CLAY	↓	↓	↓		P / F
12-18	COARSE GRAVEL	↓	40	↓		P / F
18-24	↓ COBBLES	↓	60	↓		P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.

TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4

Contractor: Jordan Construction

Photo ID: TP

Logged By:

Changed from Staked Position:

Date: 01/22/15

Test Pit No: 4-273

Excavator: 308

Weather: 25°

GW Depth: 4 1/2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	O	Ø	Y		P / F
06-12						P / F
12-18	BLACK SILTY CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36	LIGHT BROWN SILTY CLAY					P / F
36-42	MEDIUM SAND					P / F
42-48	COBBLES	M	40			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.

TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4

Contractor: Jordan Construction

Photo ID: TYP

Logged By:

Changed from Staked Position:

Date: 01/22/15

Test Pit No: 4-273W

Excavator: 308

Weather: 35°

GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18	BLACK SILTY CLAY			N		P / F
18-24						P / F
24-30	BROWN CLAY					P / F
30-36						P / F
36-42		M				P / F
42-48	GRAVELS, COBBLES	W	60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.

TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4

Contractor: Jordan Construction

Photo ID: TYP

Logged By: ↓

Changed from Staked Position:

Date: 01/22/15

Test Pit No: ~~4-273W2~~ 4-273W2

Excavator: 308

Weather: 300

GW Depth: 5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS . TAN SILTY SAND	D	Ø	Y		P / F
06-12				↓		P / F
12-18	BLACK SILTY CLAY			N		P / F
18-24	↓					P / F
24-30	BROWN CLAY					P / F
30-36	↓					P / F
36-42	↓	↓	↓	↓		P / F
42-48	BROWN SILTY CLAY	M				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.

TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4

Contractor: Jordan Construction

Photo ID: TYP

Logged By: ↓

Changed from Staked Position:

Date: 01/22/15

Test Pit No: 4-274

Excavator: 308

Weather: 25°

GW Depth: 5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	Ø	Y		P / F
06-12	BLACK SILTY CLAY			N		P / F
12-18						P / F
18-24						P / F
24-30	BROWN CLAY					P / F
30-36						P / F
36-42						(P) / F
42-48		M				P / F
48-54	GRAVELS					P / F
54-60	COBBLES	W	60			P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.

TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4

Contractor: Jordan Construction

Photo ID: TP

Logged By:

Changed from Staked Position:

Date: 01/22/15

Test Pit No: 4-275

Excavator: 308

Weather: 25°

GW Depth: 4'm

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	0	Y		P / F
06-12						P / F
12-18	LIGHT BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30	BROWN CLAY					P / F
30-36						P / F
36-42						P / F
42-48		M				P / F
48-54	GRAVELS	W	~~60~~ 40			P / F
54-60	COBBLES		60			P / F
60-66						P / F
66-72						

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/27/15
Test Pit No: 4-276
Excavator: 308
Weather: ≈60°
GW Depth: 3½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	0	Y		P / F
06-12						P / F
12-18						P / F
18-24	ORANGE SILTY SAND					P / F
24-30	BEIGE SILTY CLAY			N		P / F
30-36		M				P / F
36-42		W				P / F
42-48	GRAVELS, COBBLES		60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED, SLICKEN

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By:
Changed from Staked Position:

Date: 01/27/15
Test Pit No: 4-277
Excavator: 308
Weather: 60°
GW Depth: 5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	0	Y		P / F
06-12	TAN					P / F
12-18	BLACK SILTY CLAY			N		P / F
18-24						P / F
24-30	BROWN MEDIUM SAND					P / F
30-36						P / F
36-42	ORANGE LENS					P / F
42-48						P / F
48-54	GRAVELS	M				P / F
54-60	~~COBBLES~~	W				P / F
60-66	COBBLES		40			P / F
66-72			60			P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: TYP
Changed from Staked Position:

Date: 01/21/15
Test Pit No: 4-278
Excavator: 308
Weather: 29°
GW Depth: 4½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	Ø	Y		P / F
06-12	BLACK SILTY CLAY			N		P / F
12-18						P / F
18-24						P / F
24-30	BROWN LENS + SAND					P / F
30-36	BLACK SILTY CLAY					P / F
36-42	GRAVELS		40			P / F
42-48	Cobbles	M	60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: SLICKEN

Page ___ of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: TYP
Changed from Staked Position:

Date: 01/21/15
Test Pit No: 4-279
Excavator: 308
Weather: 29°
GW Depth: 3½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, ORANGE SILTY SAND	D	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	↓	↓	↓	↓		P / F
18-24	↓	↓	↓	↓		P / F
24-30	BROWN SILTY SAND	M	↓	N		P / F
30-36	BLACK SILTY CLAY	W	↓	↓		P / F
36-42	↓	↓	↓	↓		P / F
42-48	↓	↓	↓	↓		P / F
48-54	GRAVELS, COBBLES	↓	60	↓		P / F
54-60	↓ ↓	↓	↓	↓		P / F
60-66						P / F
66-72						P / F

Remarks: DEWATERED

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/19/15
Test Pit No: 4-280
Excavator: 308
Weather: 35°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	0	Y		P / F
06-12						P / F
12-18	BLACK SILTY CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36	MEDIUM SAND					P / F
36-42	GRAVEL, COBBLES	M	60			P / F
42-48		W				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/19/15
Test Pit No: 4-281
Excavator: 308
Weather: 30°
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	D	10	N		P / F
06-12	BLACK SILTY CLAY	↓	↓	↓		P / F
12-18	↓	↓	↓	↓		P / F
18-24	↓	↓	↓	↓		P / F
24-30	COARSE GRAVEL	M	40	↓		P / F
30-36	↓ COBBLES	W	60	↓		P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.

TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4

Contractor: Jordan Construction

Photo ID: TYP

Logged By:

Changed from Staked Position:

Date: ~~01/22~~ 01/22/15

Test Pit No: 4-282

Excavator: 308

Weather: 30°

GW Depth: 4½

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18						P / F
18-24	LIGHT BROWN SILTY CLAY			N		P / F
24-30	DARK BROWN CLAY					P / F
30-36						P / F
36-42	GRAVELS		40			P / F
42-48	COBBLES	M	60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.

TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4

Contractor: Jordan Construction

Photo ID: TYP

Logged By: ↓

Changed from Staked Position:

Date: 01/22/15

Test Pit No: 4-282W

Excavator: 308

Weather: 35°

GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18						P / F
18-24	BROWN SILTY CLAY, CLAY			N		P / F
24-30						P / F
30-36						P / F
36-42		M				P / F
42-48	GRAVELS, COBBLES	W	60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.

TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4

Contractor: Jordan Construction

Photo ID: TYP

Logged By:

Changed from Staked Position:

Date: 01/21/15

Test Pit No: 4-282W2

Excavator: 308

Weather: 35°

GW Depth: ~~2~~ 2½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	D	Ø	N		P / F
06-12	BLACK CLAY					P / F
12-18	GRAVELS, COBBLES	M	60			P / F
18-24		W				P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.

TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4

Contractor: Jordan Construction

Photo ID: TYP

Logged By:

Changed from Staked Position:

Date: 01/22/15

Test Pit No: 4-283

Excavator: 308

Weather: 25°

GW Depth: ~~4~~ 4½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	0	Y		P / F
06-12	BROWN SILTY CLAY			N		P / F
12-18						P / F
18-24						P / F
24-30	BROWN CLAY					P / F
30-36						P / F
36-42	COARSE GRAVEL, COBBLES		40			P / F
42-48		M	60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TP
Logged By:
Changed from Staked Position:

Date: 01/27/15
Test Pit No: 4-284
Excavator: 308
Weather: 60°
GW Depth: >3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	Ø	Ø	N		P / F
06-12	LIGHT BROWN SILTY CLAY					P / F
12-18	BLACK CLAY					P / F
18-24	GRAVELS					P / F
24-30	COBBLES		40			P / F
30-36			60			P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By:
Changed from Staked Position:

Date: 01/27/14
Test Pit No: 4-285
Excavator: 308
Weather: 60°
GW Depth: 3½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	D	Ø	N		P / F
06-12	BROWN SILTY CLAY					P / F
12-18						P / F
18-24						P / F
24-30						P / F
30-36	GRAVELS	M				P / F
36-42	COBBLES	W	40			P / F
42-48			60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/20/15
Test Pit No: 4-286
Excavator: 308
Weather: 20°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	Ø	Y		P / F
06-12	DARK BROWN SILTY CLAY			N		P / F
12-18	BROWN MEDIUM SAND					P / F
18-24	LIGHT BROWN SILTY CLAY					P / F
24-30						P / F
30-36	COARSE GRAVEL					P / F
36-42	COBBLES	M	60			P / F
42-48		W				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:
→ OVER

Page ___ of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/20/15
Test Pit No: 4-287
Excavator: 308
Weather: 25°
GW Depth: 74'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS BLACK SILTY CLAY	D	Ø	N		P / F
06-12						P / F
12-18	MEDIUM SAND					P / F
18-24						P / F
24-30	COARSE GRAVEL					P / F
30-36	COBBLES		40			P / F
36-42			60			P / F
42-48		M				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: TYP
Changed from Staked Position:

Date: 01/21/15
Test Pit No: 4-288
Excavator: 308
Weather: 29°
GW Depth: 4½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	↓	↓	↓	↓		P / F
18-24	GREY Medium SAND	↓	↓	N		P / F
24-30	↓	↓	↓	↓		P / F
30-36	Brown SILTY CLAY	↓	↓	↓		P / F
36-42	↓ GRAVELS	↓	40	↓		P / F
42-48	↓ Cobbles	M	60	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/19/15
Test Pit No: 4-289
Excavator: 308
Weather: 30°
GW Depth: 4½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12	↓	↓	↓	↓ N		P / F
12-18	BLACK SILTY CLAY					P / F
18-24	↓					P / F
24-30						P / F
30-36						P / F
36-42	GRAVEL, COBBLES		60			P / F
42-48	↓ ↓	M	↓	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TP
Logged By: C
Changed from Staked Position:

Date: 01/20/13
Test Pit No: 4-290
Excavator: 308
Weather: 30°
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content		Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	D	D	N		P / F
06-12	BROWN SILTY SAND					P / F
12-18						P / F
18-24						P / F
24-30	MEDIUM SAND					P / F
30-36	COARSE GRAVEL, COBBLES	M	40			P / F
36-42		W	60			P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:
→ OVER

Page ___ of ___

CDM Smith, Inc.

TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4

Contractor: Jordan Construction

Photo ID: TYP

Logged By: ↓

Changed from Staked Position:

Date: 01/22/15

Test Pit No: 4-291

Excavator: 308

Weather: 35°

GW Depth: 4 1/2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	0	Y		P / F
06-12				↓		P / F
12-18				N		P / F
18-24	DARK BROWN SILTY CLAY					P / F
24-30						P / F
30-36						P / F
36-42		↓				P / F
42-48	BROWN CLAY	M	↓	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TP
Logged By: ↓
Changed from Staked Position:

Date: 01/26/15
Test Pit No: 4-291W
Excavator: 308
Weather: 46°
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	D	0	N		P / F
06-12	SILTY CLAY	↓	↓	↓		P / F
12-18	↓	↓	↓	↓		P / F
18-24	↓	↓	↓	↓		P / F
24-30	↓	M	↓	↓		P / F
30-36	COARSE GRAVEL	W	↓	↓		P / F
36-42	↓ COBBLES	↓	40	↓		P / F
42-48	↓ ↓	↓	60	↓		~~P~~ F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ____

CDM Smith, Inc.

TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4

Contractor: Jordan Construction

Photo ID: TYP

Logged By:

Changed from Staked Position:

Date: 01/22/15

Test Pit No: 4-292

Excavator: 308

Weather: 35°

GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18	LIGHT BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30	DARK BROWN CLAY					P / F
30-36						P / F
36-42	GRAVELS, COBBLES	M	40			P / F
42-48		W	60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.

TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4

Contractor: Jordan Construction

Photo ID: TP

Logged By: ↓

Changed from Staked Position:

Date: 01/22/15

Test Pit No: 4-293

Excavator: 308

Weather: 30°

GW Depth: 4½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	↓	↓	↓	↓		P / F
18-24	BLACK SILTY CLAY	↓	↓	N		P / F
24-30	↓	↓	↓	↓		P / F
30-36	↓	↓	↓	↓		P / F
36-42	COARSE SAND	↓	↓	↓		P / F
42-48	↓	M	↓	↓		P / F
48-54	GRAVELS	↓	40	↓		P / F
54-60	↓ COBBLES	W	60	↓		P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: [illegible]
Changed from Staked Position:

Date: 01/27/15
Test Pit No: 4-294
Excavator: 308
Weather: 55°
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS ORANGE SILTY SAND	D	0	Y		P / F
06-12						P / F
12-18						P / F
18-24	LIGHT BROWN CLAY			N		P / F
24-30	, COBBLES	M	40			P / F
30-36	GRAVELS , COBBLES	W	60			P / F
36-42	~~COBBLES~~					P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By:
Changed from Staked Position:

Date: 01/27/15
Test Pit No: 4-295
Excavator: 308
Weather: 60°
GW Depth: ~~3'~~ 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18						P / F
18-24	ORANGE COARSE SAND			N		P / F
24-30	GREY SILTY CLAY					P / F
30-36		M				P / F
36-42	GRAVELS, COBBLES	W	40			P / F
42-48			60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.

TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4

Contractor: Jordan Construction

Photo ID: TYP

Logged By: ↓

Changed from Staked Position:

Date: 01/22/15

Test Pit No: 4-296

Excavator: 308

Weather: 25°

GW Depth: 5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	BROWN SILTY CLAY			N		P / F
18-24	↓					P / F
24-30	LIGHT BROWN CLAY					P / F
30-36	↓	↓	↓	↓		P / F
36-42	COBBLES		40			P / F
42-48	↓	M	↓			P / F
48-54	GRAVELS	↓	60			P / F
54-60	↓	W	↓	↓		P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.

TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/20/15
Test Pit No: 4-297
Excavator: 308
Weather: 30°
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS ORANGE SILTY SAND	D	Ø	Y		P / F
06-12	LIGHT BROWN SILTY SAND			↓		P / F
12-18	↓			N		P / F
18-24	BROWN SILTY CLAY					P / F
24-30	↓	↓				P / F
30-36	GREY COARSE SAND	M	↓			P / F
36-42	GRAVELS, COBBLES	W	60			P / F
42-48	↓ ↓	↓	↓	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:
→ OVER

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TP
Logged By: L
Changed from Staked Position:

Date: 01/19/15
Test Pit No: 4-298
Excavator: 308
Weather: 35°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, ORANGE SILTY SAND	D	0	Y		P / F
06-12						P / F
12-18	ORANGE SILTY CLAY					P / F
18-24	LIGHT BROWN SILTY CLAY			N		P / F
24-30						P / F
30-36						P / F
36-42	GREY COARSE SAND	M				P / F
42-48	, COBBLES	W	40			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/19/15
Test Pit No: 4-299
Excavator: 308
Weather: 20°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	O	0	Y		P / F
06-12	TAN SILTY SAND	↓	↓	↓		P / F
12-18	DARK BROWN SILTY CLAY			N		P / F
18-24	↓			↓		P / F
24-30	COARSE SAND		↓			P / F
30-36	↓	↓	40			P / F
36-42	GRAVELS, COBBLES	M	60			P / F
42-48	↓	W	↓	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.

TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4

Contractor: Jordan Construction

Photo ID: TYP

Logged By:

Changed from Staked Position:

Date: 01/21/15

Test Pit No: 4-301

Excavator: 308

Weather: 35°

GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	Ø	Y		P / F
06-12	LIGHT BROWN SILTY CLAY			N		P / F
12-18	DARK BROWN SILTY CLAY					P / F
18-24						P / F
24-30	BROWN SILTY SAND					P / F
30-36						P / F
36-42		M				P / F
42-48	GRAVELS, COBBLES	W	60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.

TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4

Contractor: Jordan Construction

Photo ID: TP

Logged By: ↓

Changed from Staked Position:

Date: 01/22/15

Test Pit No: 4-302

Excavator: 308

Weather: 35°

GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	TAN SILTY SAND	D	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	BLACK SILTY CLAY			N		P / F
18-24	↓			↓		P / F
24-30	BROWN MEDIUM SAND	↓	↓			P / F
30-36	↓	M				P / F
36-42		W	40			P / F
42-48	↓ GRAVELS					P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: TYP
Changed from Staked Position:

Date: 01/21/15
Test Pit No: 4-303
Excavator: 308
Weather: 29°
GW Depth: 5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	0	Y		P / F
06-12						P / F
12-18	BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30	BLACK SILTY CLAY					P / F
30-36						P / F
36-42						P / F
42-48	COBBLES		40			P / F
48-54	GRAVEL, COBBLES	M	60	Y		P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: TYP
Changed from Staked Position:

Date: 01/21/15
Test Pit No: 4-304
Excavator: 308
Weather: 29°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	0	Y		P / F
06-12						P / F
12-18	BLACK SILTY CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36	BROWN SILTY CLAY					P / F
36-42		M				P / F
42-48	COARSE GRAVEL	W				P / F
48-54	COBBLES		40			P / F
54-60			60			P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: TYP
Changed from Staked Position:

Date: 01/21/15
Test Pit No: 4-305
Excavator: 308
Weather: 29°
GW Depth: 6'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	BLACK SILTY CLAY			N		P / F
18-24	↓			↓		P / F
24-30	↓					P / F
30-36	CLAY					P / F
36-42	↓					P / F
42-48	↓	↓	↓	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.

TEST PIT EXCAVATION LOG 01/22/15

Project: Clark Fork River OU, Reach A Phases 3 & 4

Contractor: Jordan Construction

Photo ID: TYP

Logged By: ↓

Changed from Staked Position:

Date: ~~01/21/15~~

Test Pit No: 4-306

Excavator: 308

Weather: 25°

GW Depth: 3½

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND BROWN SILTY CLAY	D	0	Y		P / F
06-12	↓	↓	↓	N		P / F
12-18				↓		P / F
18-24	↓					P / F
24-30	SANDY, SILTY CLAY	↓	↓			P / F
30-36	GRAVELS, COBBLES	M	40			P / F
36-42	↓	W	60	↓		P / F
42-48		↓	↓			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: 14P
Logged By: C
Changed from Staked Position:

Date: 01/20/15
Test Pit No: 4-307
Excavator: 308
Weather: 30°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	D	Ø	N		P / F
06-12	ORANGE SILTY SAND			Y		P / F
12-18	BROWN SAND			N		P / F
18-24						P / F
24-30	ORANGE LENS					P / F
30-36	BROWN SILTY CLAY					P / F
36-42	COARSE SAND	M				P / F
42-48		W				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/20/15
Test Pit No: 4-308
Excavator: 308
Weather: 30°
GW Depth: 4½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS BROWN SILTY CLAY	D	Ø	N		P / F
06-12	↓	↓	↓	↓		P / F
12-18	LIGHT BROWN SAND	↓	↓	↓		P / F
18-24	↓	↓	↓	↓		P / F
24-30	↓	↓	↓	↓		P / F
30-36	↓ ORANGE LENS	↓	↓	↓		P / F
36-42	BROWN SILTY CLAY	↓	↓	↓		P / F
42-48	↓	M	↓	↓		(P) / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYD
Logged By: ↓
Changed from Staked Position:

Date: 01/19/15
Test Pit No: 4-309
Excavator: 308
Weather: 20°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	0	0	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	↓	↓	↓	↓		P / F
18-24	ORANGE SILTY CLAY	↓	↓	↓		P / F
24-30	↓	↓	↓	↓		P / F
30-36	GREY CLAY	↓	↓	N		P / F
36-42	BROWN SILTY CLAY	M	↓	↓		P / F
42-48	↓ COBBLES	W	40	↓		P / F
48-54	GRAVELS, COBBLES	↓	60	↓		P / F
54-60	↓ ↓	↓	↓	↓		P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: TYP
Changed from Staked Position:

Date: 01/21/15
Test Pit No: 4-309W
Excavator: 308
Weather: 29°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	Soils TAN SILTY SAND	D	Ø	Y		P / F
06-12	Light Brown Silty Clay			N		P / F
12-18						P / F
18-24	BLACK SILTY CLAY					P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By:
Changed from Staked Position:

Date: 01/22/15
Test Pit No: 4-312
Excavator: 308
Weather: 35°
GW Depth: 4½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	D	Ø	Y		P / F
06-12	TAN SILTY SAND			N		P / F
12-18	BLACK CLAY					P / F
18-24						P / F
24-30						P / F
30-36	LIGHT BROWN SILTY CLAY					P / F
36-42						P / F
42-48	BROWN SILTY SAND	M				P / F
48-54		W				P / F
54-60	GRAVELS, COBBLES		60			P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: TYP
Changed from Staked Position:

Date: 01/21/15
Test Pit No: 4-313
Excavator: 308
Weather: 29°
GW Depth: 4½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	D	Ø	N		P / F
06-12	BROWN SILTY SAND					P / F
12-18	BLACK SILTY CLAY					P / F
18-24						P / F
24-30						P / F
30-36	BROWN SILTY CLAY					P / F
36-42	Cobbles		40			P / F
42-48	GRAVELS COBBLES	M		V		P / F
48-54			60			P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: TYP
Changed from Staked Position:

Date: 01/21/15
Test Pit No: 4-314
Excavator: 308
Weather: 29°
GW Depth: 5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18	BLACK SILTY CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48	BROWN SILTY CLAY					P / F
48-54						P / F
54-60	GRAVELS COBBLES					P / F
60-66			60			P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By:
Changed from Staked Position:

Date: 01/20/15
Test Pit No: 4-315
Excavator: 308
Weather: 35°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	M	0	N		P / F
06-12	BROWN SILTY CLAY					P / F
12-18						P / F
18-24						P / F
24-30	COARSE GRAVEL					P / F
30-36	COBBLES		40			P / F
36-42		M	60			P / F
42-48		W				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/20/15
Test Pit No: 4-316
Excavator: 308
Weather: 35°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	D	Ø	N		P / F
06-12	BROWN SILTY CLAY	↓	↓	↓		P / F
12-18	↓	↓	↓	↓		P / F
18-24	DARK BROWN SILTY CLAY	↓	↓	↓		P / F
24-30	↓	↓	↓	↓		P / F
30-36	BROWN SILTY SAND ORANGE LENS	↓	↓	↓		P / F
36-42	↓ GRAVELS, COBBLES	M	40	↓		P / F
42-48	↓	W	60	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By:
Changed from Staked Position:

Date: 01/20/15
Test Pit No: 4-317
Excavator: 308
Weather: 30°
GW Depth: 4'/2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	D	Ø	N		P / F
06-12	BLACK SILTY SANDY CLAY					P / F
12-18						P / F
18-24						P / F
24-30	COARSE SAND					P / F
30-36	GRAVELS					P / F
36-42	COBBLES		60			P / F
42-48		M				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/20/15
Test Pit No: 4-318
Excavator: 308
Weather: 30
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	D	Ø	N		P / F
06-12	↓	↓	↓	↓		P / F
12-18	BROWN SILTY CLAY					P / F
18-24	↓					P / F
24-30	BROWN MEDIUM SAND					P / F
30-36	↓	↓				P / F
36-42	ORANGE LENS	M				P / F
42-48	↓	W	↓	↓		~~P~~ F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.

TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4

Contractor: Jordan Construction

Photo ID: TP

Logged By:

Changed from Staked Position:

Date: 01/22/15

Test Pit No: 4-321

Excavator: 308

Weather: 35°

GW Depth: ~ 3½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18	TAN SILTY CLAY					P / F
18-24	BLACK SILTY CLAY			N		P / F
24-30						P / F
30-36		M				P / F
36-42	COARSE SAND	W				P / F
42-48	COBBLES		40			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/19/15
Test Pit No: 4-32/W2
Excavator: 308
Weather: 35°
GW Depth: >2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12	BROWN SILTY CLAY	↓	↓	N		P / F
12-18	↓	↓	↓	↓		P / F
18-24		↓	↓	↓		P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: TYP
Changed from Staked Position:

Date: 01/21/15
Test Pit No: 4-322
Excavator: 308
Weather: 29°
GW Depth: 5'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	BROWN SILTY CLAY			N		P / F
18-24	BLACK SILTY CLAY					P / F
24-30	↓					P / F
30-36						P / F
36-42	↓		↓			P / F
42-48	GRAVELLY SAND	↓	40			P / F
48-54	↓ Cobbles	M	60	↓		P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: TYP
Changed from Staked Position:

Date: 01/21/15
Test Pit No: 4-323
Excavator: 308
Weather: 29°
GW Depth: 4 1/2'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS BROWN SILTY SAND	D	Ø	Y		P / F
06-12	TAN SILTY SAND	↓	↓	↓		P / F
12-18	BROWN SILTY SAND	↓	↓	N		P / F
18-24	BLACK SILTY CLAY	↓	↓	↓		P / F
24-30	↓	↓	↓	↓		P / F
30-36	BROWN SILTY CLAY	↓	↓	↓		P / F
36-42	↓	↓	↓	↓		P / F
42-48	MEDIUM SAND	↓	↓	↓		P / F
48-54	↓	W	↓	↓		P / F
54-60	Cobbles	↓	40-60	↓		P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TP
Logged By:
Changed from Staked Position:

Date: 01/20/15
Test Pit No: 4-324
Excavator: 308
Weather: 35°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS ORANGE SILTY SAND	D	0	Y		P / F
06-12	, COBBLES		40			P / F
12-18	ORANGE SILTY SAND		60	N		P / F
18-24						P / F
24-30	GREY MEDIUM SAND		<40			P / F
30-36						P / F
36-42		M				P / F
42-48	GRAVEL , COBBLES	W	60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: DIFFICULT TO TELL WHERE COBBLE END AND BEGIN

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/20/15
Test Pit No: 4-325
Excavator: 308
Weather: 35°
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	O	Ø	Y		P / F
06-12	TAN SILTY SAND	↓	↓	N		P / F
12-18	BROWN SILTY CLAY	↓	↓	↓		P / F
18-24	↓	↓	↓	↓		P / F
24-30	↓	↓	↓	↓		P / F
30-36	COARSE SAND	M	40	↓		P / F
36-42	GRAVELS, COBBLES	W	60	↓		P / F
42-48	↓	↓	↓	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/20/15
Test Pit No: 4-326
Excavator: 308
Weather: 30°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12	BROWN SILTY CLAY			N		P / F
12-18						P / F
18-24						P / F
24-30						P / F
30-36	DARK BROWN CLAY					P / F
36-42		M				P / F
42-48	GRAVELS, COBBLES	W	60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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15

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/20/15
Test Pit No: 4-327
Excavator: 308
Weather: 35°
GW Depth: 4½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	DARK BROWN SILTY CLAY			N		P / F
18-24	↓			↓		P / F
24-30	MEDIUM SAND					P / F
30-36	↓, ORANGE LENS					P / F
36-42	GRAVEL					P / F
42-48	↓, COBBLES	M	60	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/20/15
Test Pit No: 4-328
Excavator: 308
Weather: 35°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS ORANGE, TAN SILTY SAND	O	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	BROWN SILTY SAND			N		P / F
18-24	ORANGE SILTY SAND					P / F
24-30	BLACK SAND					P / F
30-36	↓					P / F
36-42	GRAVELS	M	↓			P / F
42-48	COBBLES	W	60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: TYP
Changed from Staked Position:

Date: 1/20/15
Test Pit No: 4-328W
Excavator: 308
Weather: 10°
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	D	Ø	N		P / F
06-12	SILTY CLAY	↓	↓	↓		P / F
12-18	↓					P / F
18-24						P / F
24-30	GREY SAND					P / F
30-36	↓ Cobbles		↓			P / F
36-42	GRAVELS ↓		40			P / F
42-48	↓ ↓	↓	↓	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/20/15
Test Pit No: 4-329
Excavator: 308
Weather: 35°
GW Depth: 3½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	D	Ø	N		P / F
06-12	BROWN SILTY SAND	↓	↓	↓		P / F
12-18	↓	↓	↓	↓		P / F
18-24	↓	↓	↓	↓		P / F
24-30	COARSE GRAVEL	↓	↓	↓		P / F
30-36	↓ COBBLES	M	40	↓		P / F
36-42	↓ ↓	W	60	↓		P / F
42-48	↓ ↓	↓	↓	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 01/22/15
Test Pit No: 4-330
Excavator: 308
Weather: 40°
GW Depth: 4½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	DARK BROWN SILTY CLAY			N		P / F
18-24	↓			↓		P / F
24-30						P / F
30-36						P / F
36-42	COBBLES	↓	40			P / F
42-48	↓	M	↓	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.

TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4

Contractor: Jordan Construction

Photo ID: TYP

Logged By: ↓

Changed from Staked Position:

Date: 01/22/15

Test Pit No: 4-331

Excavator: 308

Weather: 30 35°

GW Depth: 4½'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	↓	↓	↓	↓		P / F
18-24	LIGHT BROWN SILTY CLAY	↓	↓	N		P / F
24-30	DARK BROWN SILTY CLAY	↓	↓	↓		P / F
30-36	↓	↓	↓	↓		P / F
36-42	↓	↓	↓	↓		P / F
42-48	BROWN COARSE SAND	M	↓	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: TYP
Changed from Staked Position:

Date: 01/21/15
Test Pit No: 4-332
Excavator: 308
Weather: 29°
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS, TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18	LIGHT BROWN CLAY SILTY			N		P / F
18-24	BLACK CLAY					P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: TYP
Changed from Staked Position:

Date: 01/21/15
Test Pit No: 4-333
Excavator: 308
Weather: 29°
GW Depth: >3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12	BLACK SILTY CLAY	↓		N		P / F
12-18				↓		P / F
18-24						P / F
24-30	GRAVELS, COBBLES		60			P / F
30-36		↓	↓	↓		P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks: Sampled to 3' Due to Rock o/o ~ Alluvium

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: TYP
Changed from Staked Position:

Date: 01/21/15
Test Pit No: 4-334
Excavator: 308
Weather: 29°
GW Depth: 74'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	Soils, Brown SILTY CLAY	D	Ø	N		P / F
06-12	↓	↓	↓	↓		P / F
12-18	BLACK SILTY CLAY					P / F
18-24	↓					P / F
24-30	TAN Medium Sand		↓			P / F
30-36	Gravels · Cobbles		40			P / F
36-42	↓		60			P / F
42-48	↓	↓	↓	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: TYP
Changed from Staked Position:

Date: 01/20/15
Test Pit No: 4-336
Excavator: 308
Weather: 10°
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	D	Ø	N		P / F
06-12	BROWN SILTY CLAY	↓	↓	↓		P / F
12-18	↓					P / F
18-24	↓					P / F
24-30	COARSE SAND					P / F
30-36	GRAVELS		↓			P / F
36-42	↓ Cobbles		40			P / F
42-48	↓ ↓					P / F
48-54						P / F
54-60		↓	60	↓		P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: TYP
Changed from Staked Position:

Date: 1/20/15
Test Pit No: 4-337
Excavator: 308
Weather: 10°
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	D	0	N		P / F
06-12	BROWN SILTY CLAY					P / F
12-18						P / F
18-24	COARSE SAND					P / F
24-30						P / F
30-36	GRAVELS, COBBLES					P / F
36-42			40			P / F
42-48						P / F
48-54						P / F
54-60			60			P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: TYP
Changed from Staked Position:

Date: 01/21/15
Test Pit No: 4-338
Excavator: 308
Weather: 29°
GW Depth: 54'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	D	Ø	Y		P / F
06-12	BROWN, TAN SILTY CLAY	↓	↓	↓		P / F
12-18	BLACK SILTY CLAY	↓	↓	N		P / F
18-24	↓	↓	↓	↓		P / F
24-30	↓	↓	↓	↓		P / F
30-36	BROWN SILTY CLAY	↓	↓	↓		P / F
36-42	↓	↓	↓	↓		P / F
42-48	↓	↓	↓	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 02/02/15
Test Pit No: 4-500
Excavator: 308
Weather: 35°
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	↓	↓	↓	↓		P / F
18-24	GREY SILTY CLAY	↓	↓	↓		P / F
24-30	BLACK SILTY CLAY	↓	↓	N		P / F
30-36	BROWN CLAY	M	↓	↓		P / F
36-42	↓	W	↓	↓		P / F
42-48	GRAVELS, COBBLES	↓	60	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: d
Changed from Staked Position:

Date: 02/02/15
Test Pit No: 4-500N
Excavator: 308
Weather: 30°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	D	Ø	N		P / F
06-12	BLACK SILTY CLAY					P / F
12-18						P / F
18-24	BROWN SILTY CLAY BROWN SILTY SAND, W/ORANGE LENS					P / F
24-30						P / F
30-36						P / F
36-42	LIGHT BROWN SILTY SAND	M				P / F
42-48	BROWN CLAY	W				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 02/02/15
Test Pit No: 4-500E
Excavator: 308
Weather: 35°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	D	Ø	N		P / F
06-12	BLACK SILTY CLAY					P / F
12-18						P / F
18-24						P / F
24-30	BROWN CLAY					P / F
30-36		✓	↓			P / F
36-42	COARSE SAND	M	40			P / F
42-48	↓, GRAVELS, COBBLES	W	60	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: 8 TYP
Logged By: L
Changed from Staked Position:

Date: 02/02/15
Test Pit No: 4-501
Excavator: 308
Weather: 35°
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18						P / F
18-24	GREY SILTY CLAY					P / F
24-30	BROWN SILTY CLAY			N		P / F
30-36		M				P / F
36-42	BROWN CLAY	W				P / F
42-48						P / F
48-54	COBBLES		60			P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: ~~07~~ 02/02/15
Test Pit No: 4-502
Excavator: 308
Weather: 35°
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	GREY SILTY CLAY					P / F
18-24	BROWN CLAY			N		P / F
24-30	↓			↓		P / F
30-36	↓	M	↓			P / F
36-42	GRAVELS, COBBLES	~	40			P / F
42-48	↓	↓	60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TP
Logged By: ↓
Changed from Staked Position:

Date: 02/02/15
Test Pit No: 4-5025
Excavator: 308
Weather: 32°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	Ø	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	BROWN SILTY CLAY			N		P / F
18-24	↓			↓		P / F
24-30	DARK BROWN CLAY					P / F
30-36	↓ COARSE SAND	↓	↓	↓		P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 02/02/15
Test Pit No: 4-502W
Excavator: 308
Weather: 32°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18	BLACK SILTY CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36	BROWN CLAY					P / F
36-42		M				P / F
42-48		W				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 02/02/15
Test Pit No: 4-503
Excavator: 308
Weather: 30°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	D	Ø	Y		P / F
06-12	TAN SILTY SAND	↓	↓	↓		P / F
12-18	GREY SILTY CLAY	↓	↓	↓		P / F
18-24	BROWN SILTY CLAY	↓	↓	↓		P / F
24-30	↓	↓	↓	N		P / F
30-36	LIGHT BROWN SILTY CLAY	↓	↓	↓		P / F
36-42	COARSE SAND	M	↓	↓		P / F
42-48	↓, GRAVELS, COBBLES	W	60	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: ~~07~~ 02/02/15
Test Pit No: 4-503N
Excavator: 308
Weather: 35°
GW Depth: 74'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	D	Ø	N		P / F
06-12	BROWN SILTY CLAY	↓	↓	↓		P / F
12-18	↓	↓	↓	↓		P / F
18-24	↓	↓	↓	↓		P / F
24-30	↓	↓	↓	↓		P / F
30-36	LIGHT BROWN CLAY	↓	↓	↓		P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 02/02/15
Test Pit No: 4-503E
Excavator: 308
Weather: 35°
GW Depth: @ 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	Ø	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	BLACK SILTY CLAY			N		P / F
18-24	↓	↓	↓	↓		P / F
24-30		M				P / F
30-36	↓	W	↓	↓		P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of _____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 02/02/15
Test Pit No: 4-504
Excavator: 308
Weather: 30°
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	BROWN SILTY CLAY			N		P / F
18-24	↓	↓	↓	↓		P / F
24-30	↓	M	↓	↓		P / F
30-36	GRAVELS, COBBLES	W	60	↓		P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 02/02/15
Test Pit No: 4-5045
Excavator: 308
Weather: 320
GW Depth: 3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	0	Ø	N		P / F
06-12	TAN SILTY CLAY	↓	↓	↓		P / F
12-18	↓	↓	↓	↓		P / F
18-24	↓	↓	↓	↓		P / F
24-30	BLACK SILTY CLAY	M	↓	↓		P / F
30-36	↓	W	↓	↓		P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TYP
Logged By: ↓
Changed from Staked Position:

Date: 02/02/15
Test Pit No: 4-5046
Excavator: 308
Weather: 32°
GW Depth: >3'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	0	Y		P / F
06-12	BROWN & SILTY CLAY			N		P / F
12-18	↓					P / F
18-24	BROWN CLAY					P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ____

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TP
Logged By: ↓
Changed from Staked Position:

Date: 02/02/15
Test Pit No: 4-505
Excavator: 308
Weather: 30°
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	Ø	Ø	Y		P / F
06-12	↓	↓	↓	↓		P / F
12-18	BROWN SILTY CLAY			N		P / F
18-24						P / F
24-30						P / F
30-36						P / F
36-42						P / F
42-48						P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TP
Logged By: "
Changed from Staked Position:

Date: 02/02/15
Test Pit No: 4-506
Excavator: 308
Weather: 32
GW Depth: >4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS ORANGE SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18	ORANGE / GREY SILTY CLAY					P / F
18-24	BROWN SILTY CLAY			N		P / F
24-30						P / F
30-36						P / F
36-42	DARK BROWN CLAY					P / F
42-48		M				P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TP
Logged By: ↓
Changed from Staked Position:

Date: 02/02/15
Test Pit No: 4-506W
Excavator: 308
Weather: 32°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS	D	Ø	N		P / F
06-12	DARK BROWN SILTY CLAY	↓	↓	↓		P / F
12-18	↓					P / F
18-24	↓					P / F
24-30	BROWN SILTY SAND					P / F
30-36	↓					P / F
36-42	↓	M	↓			P / F
42-48	GRAVELS, COBBLES	W	60	↓		P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

Page ___ of ___

CDM Smith, Inc.
TEST PIT EXCAVATION LOG

Project: Clark Fork River OU, Reach A Phases 3 & 4
Contractor: Jordan Construction
Photo ID: TP
Logged By:
Changed from Staked Position:

Date: 02/02/15
Test Pit No: ~~4-506W~~ 4-506N
Excavator: 308
Weather: 32°
GW Depth: 4'

Depth (in)	Soil Description	Moisture Content	% Rock	Discernable Tailings?	Laboratory Sample	XRF (Pass/Fail)
00-06	SOILS TAN SILTY SAND	D	Ø	Y		P / F
06-12						P / F
12-18						P / F
18-24	BLACK SILTY CLAY			N		P / F
24-30						P / F
30-36	ORANGE SILTY SAND					P / F
36-42		M				P / F
42-48	GRAVELS, COBBLES	W	40-60			P / F
48-54						P / F
54-60						P / F
60-66						P / F
66-72						P / F

Remarks:

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