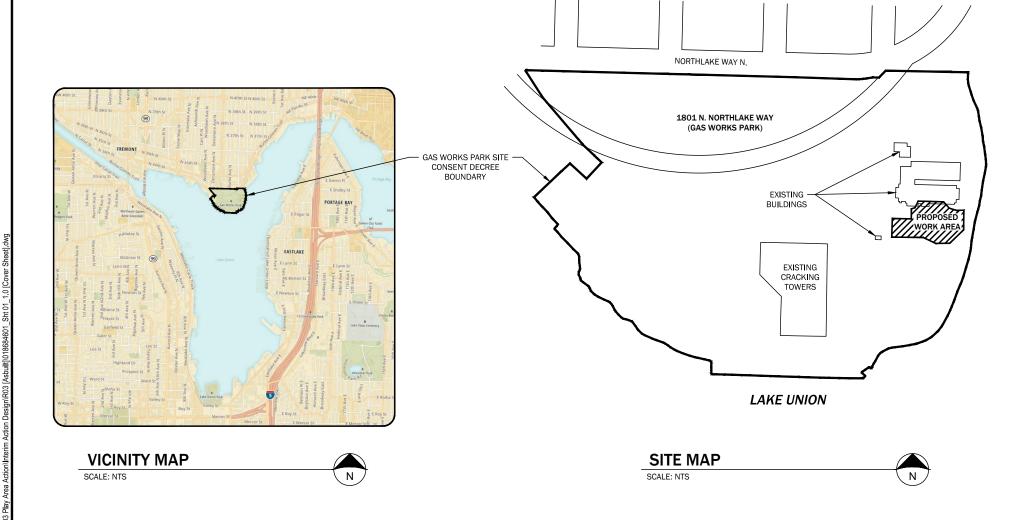
APPENDIX D

Play Area Groundwater Infrastructure Installation As-Built Drawings

GAS WORKS PARK SITE

PLAY AREA GROUNDWATER INFRASTRUCTURE INSTALLATION



SHEET INDEX:

ı		
ı	1.0	COVER SHEET
	-2.0	GENERAL NOTES
	2.1	CONSTRUCTION NOTES
	3.0	PRE-CONSTRUCTION CONDITIONS
	3.1	EXISTING SURVEY CONTROL
	4.0	INJECTION SYSTEM LAYOUT
	4.1	INJECTION SYSTEM ELEVATIONS
	5.0	TRENCHING AND INJECTION SYSTEM DETAILS
	6.0	MONITORING WELL SURFACE COMPLETION CONSTRUCTION SEQUENCING - BRICK PLAZA
	7.0	MONITORING WELL SURFACE COMPLETION CONSTRUCTION SEQUENCING - PLAYGROUND
Į	8.0	WELL CONSTRUCTION SCHEMATIC DETAILS

DATUM:

VERTICAL = NAVD88 HORIZONTAL = NAD 83/91

PROPERTY INFO:

KING CO. ASSESSOR PARCEL NO.: 124970-0005

OWNER: SEATTLE PARKS & RECREATION

SITE ADDRESS: 1801 N NORTHLAKE WAY, SEATTLE, WA 98103

LEGAL DESCRIPTION: BURKES 1ST ADD ALL BLKS 1 & 2 4 THRU 6 & 9 THRU 11 ALSO BLKS 42 THRU 44 LAKE UNION SHORELANDS ALSO BLK 3 LLEWELLYN'S SUPL BLK 3 BURKES 1ST ALSO BLK 43A LAKE UNION SD LDS 2ND SUPL TGW POR VAC STS ADJ LESS ST & TGW POR VAC N NORTHLAKE PL ADJ AS VAC BY SEATTLE ORD NO 112955

CONTACTS:

OWNER: PUGET SOUND ENERGY PO BOX 90868, PSE-12 BELLEVUE, WA 98009 CONTACT: JOHN RORK (425) 456-2228

PROPERTY OWNER (GAS WORKS PARK):

SEATTLE PARKS AND RECREATION 800 MAYNARD AVENUE SOUTH, 3RD FLOOR SEATTLE, WA 98134

(206) 684-7048

600 STEWART STREET #1700 SEATTLE, WA 98101 CONTACT: CHRIS BAILEY



Know what's below. Call before you dig.

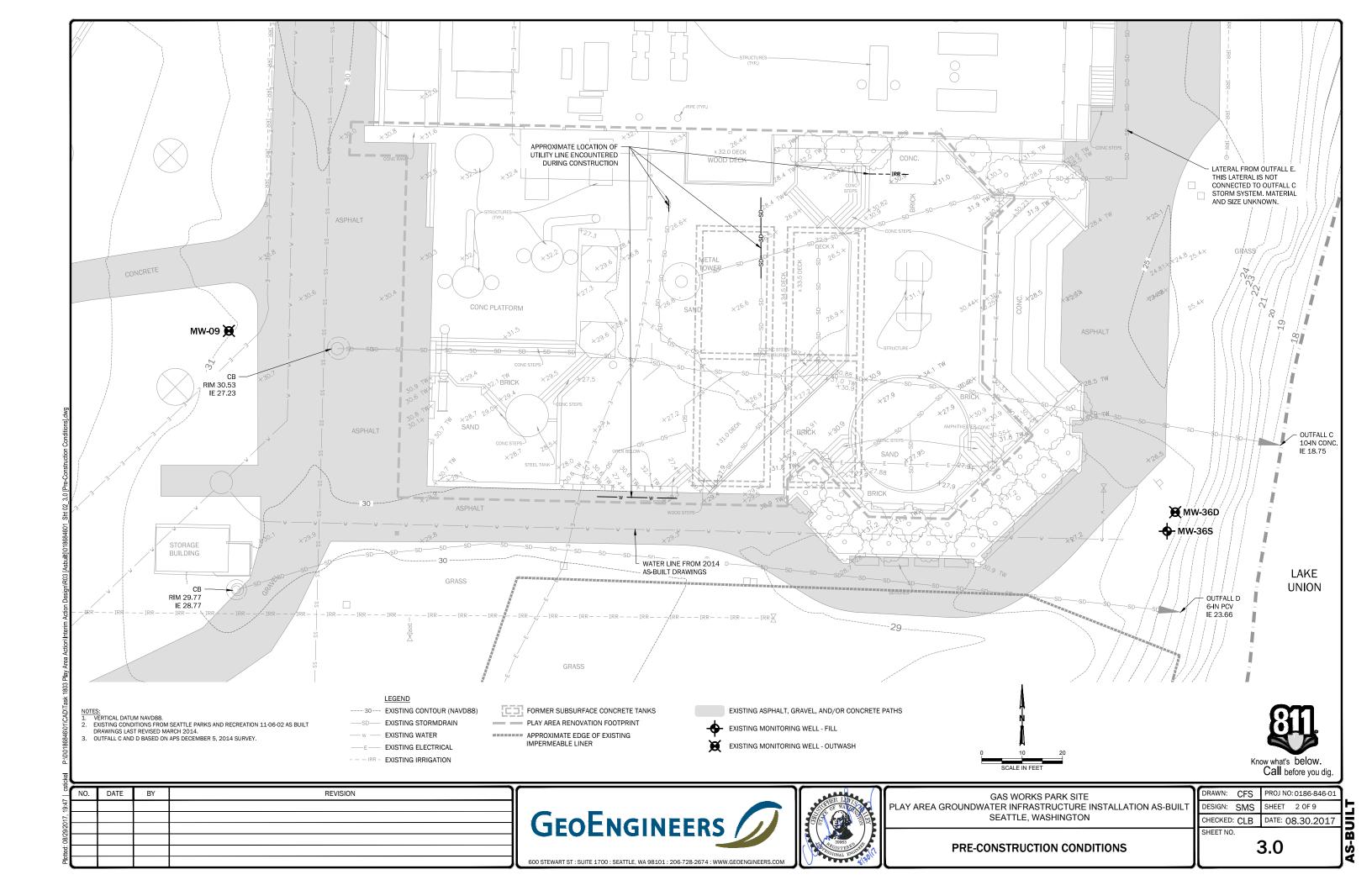
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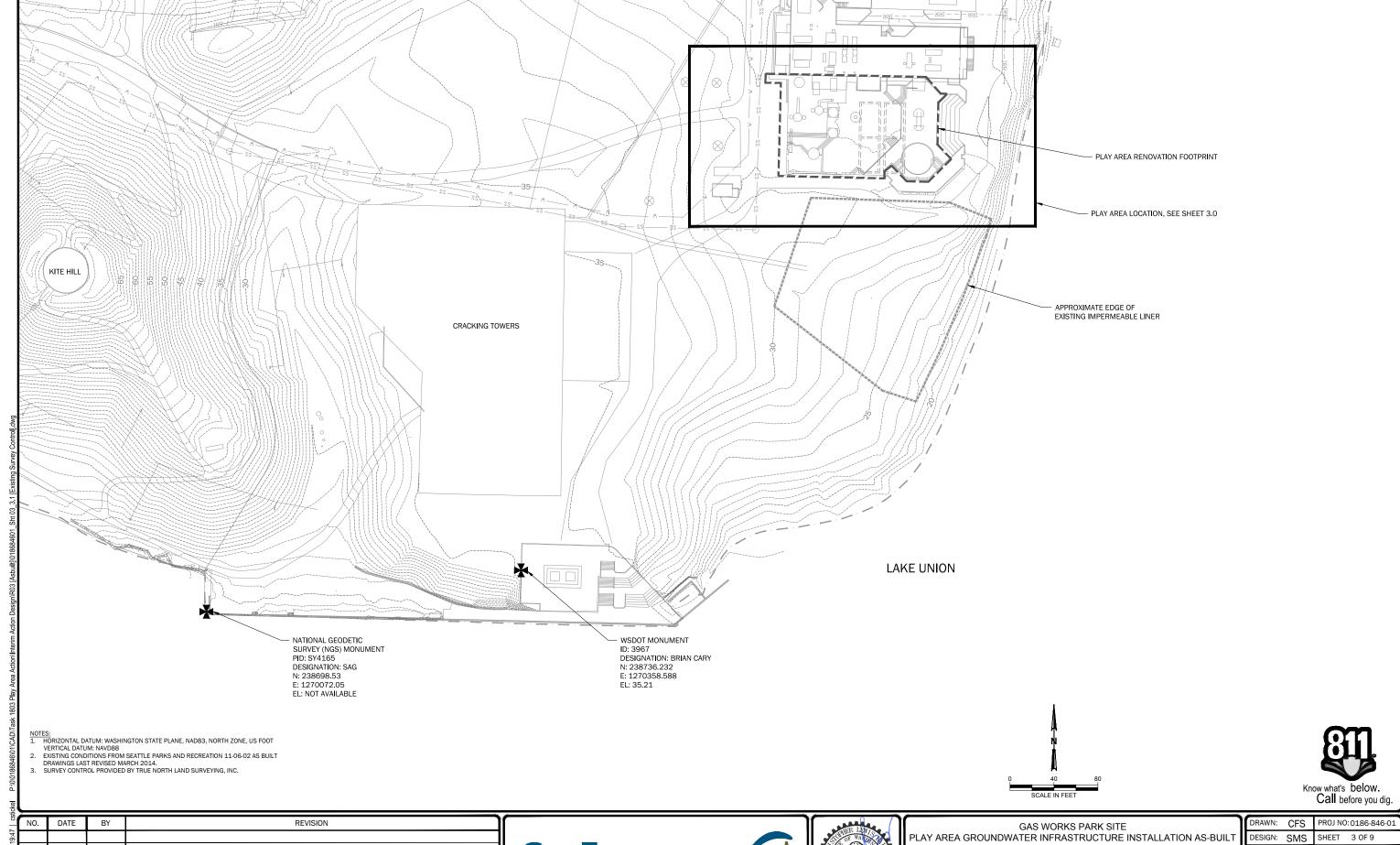




GAS WORKS PARK SITE
PLAY AREA GROUNDWATER INFRASTRUCTURE INSTALLATION AS-BUILT
SEATTLE, WASHINGTON

, where		
DRAWN:	CFS	PROJ NO: 0186-846-01
DESIGN:	SMS	SHEET 1 OF 9
CHECKED	: CLB	DATE: 08.30.2017
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GEOENGINEERS / 600 STEWART ST : SUITE 1700 : SEATTLE, WA 98101 : 206-728-2674 : WWW.GEOENGINEERS.COM

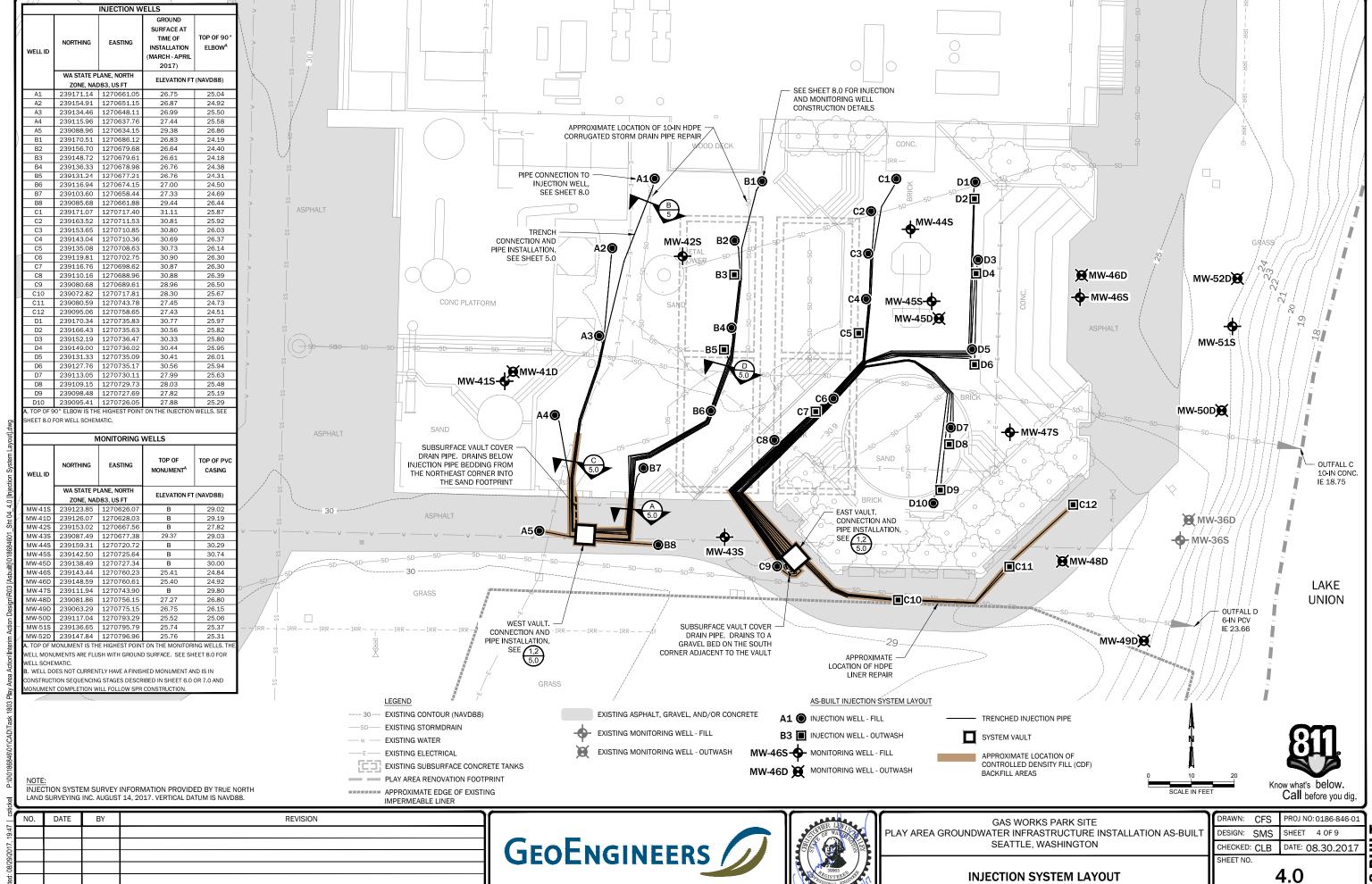


SEATTLE, WASHINGTON

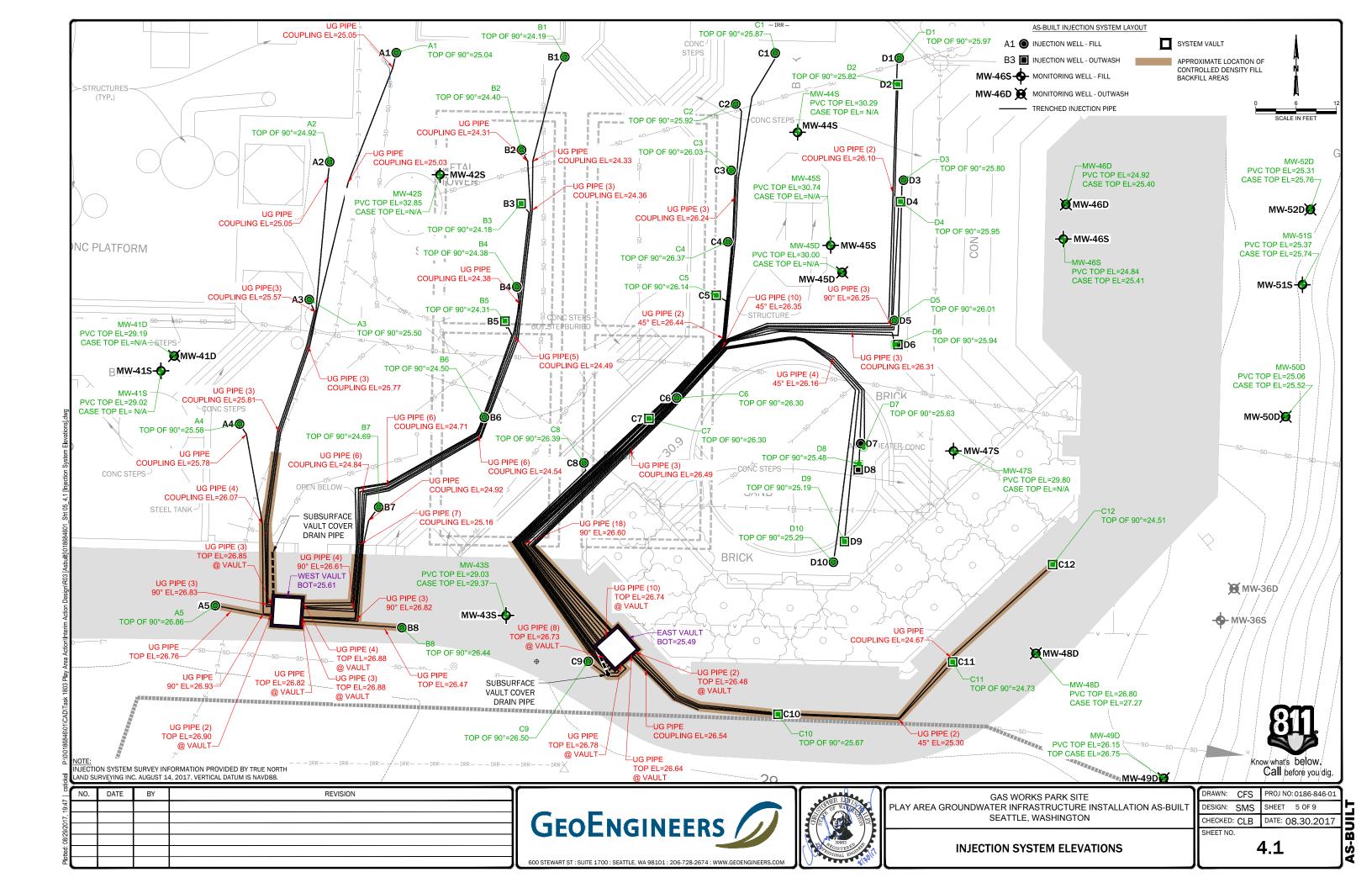
EXISTING SURVEY CONTROL

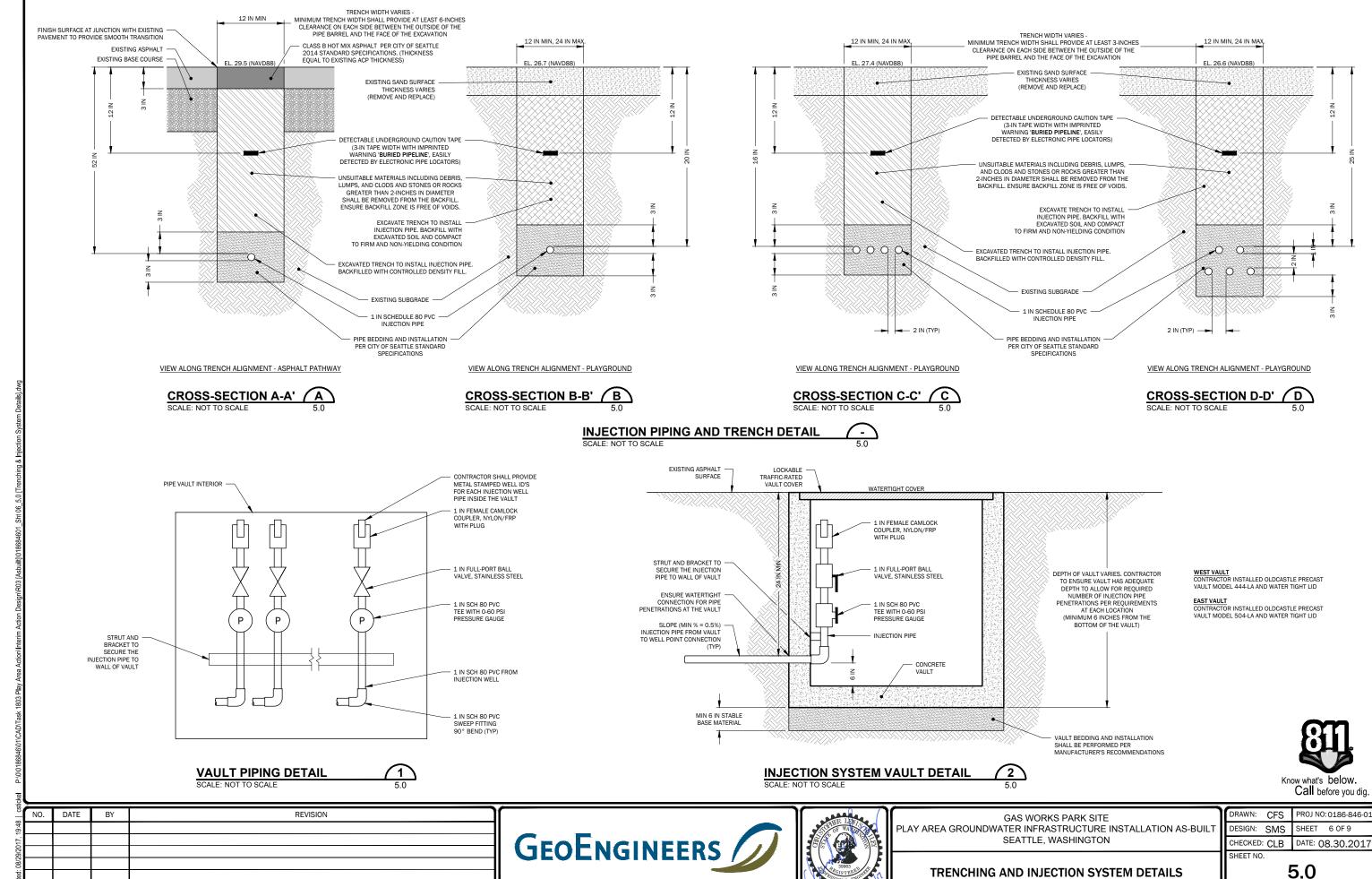
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	CHECKED: CLB	DATE: 08.30.2017
	SHEET NO.	

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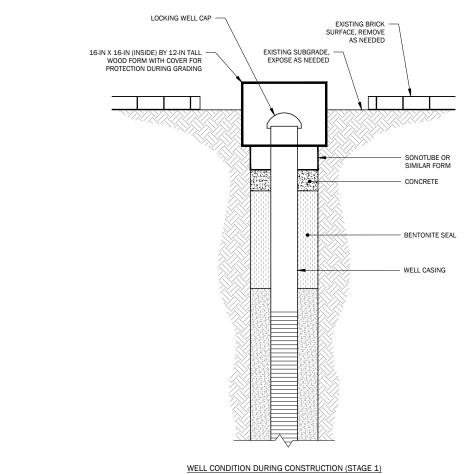
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600 STEWART ST: SUITE 1700: SEATTLE, WA 98101: 206-728-2674: WWW.GEOENGINEERS.COM

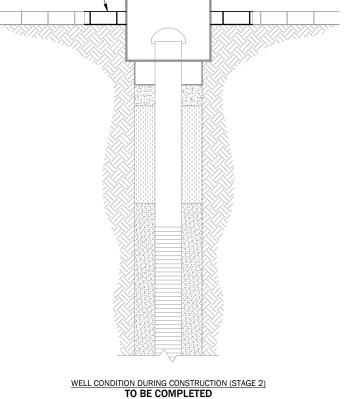
AS-BUILT



COMPLETED

 MONITORING WELL INSTALLATION COMPLETED BY LICENSED WELL DRILLER PRIOR TO MOBILIZATION BY SPR RENOVATION CONTRACTOR.

- 2. MONITORING WELL PROTECTION INSTALLED BY WELL DRILLER.
- 3. TEMPORARY WELL PROTECTION COMPLETED BY WELL DRILLERS JUNE 2017.



NEW BRICKS TO BE

PLACED BY SPR

SPR RENOVATION CONTRACTOR COMPLETES BACKFILL AND BRICK LAYING
 AROUND PROTECTED MONITORING WELL. CONTRACTOR TO EXERCISE

CAUTION DURING BACKFILLING OPERATIONS AND PROTECT THE MONITORING WELL FROM DAMAGE. SPR RENOVATION CONTRACTOR TO NOTIFY GEOENGINEERS AFTER COMPLETION OF BRICK LAYING ACTIVITIES.

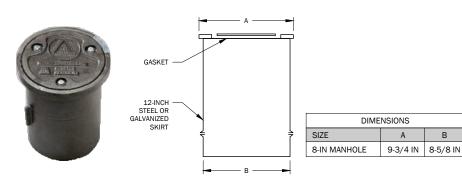
3. ALLOW APPROXIMATELY 90-180 DAYS FOR BRICK INSTALLATION BY SPR.

WATERTIGHT 3-BOLT MANHOLE (SEE MONUMENT DETAIL 2) - DRILLER POUR CONCRETE MONUMENT BASE AND

FINAL WELL CONDITION (STAGE 3)
TO BE COMPLETED

 LICENSED WELL DRILLER TO INSTALL WELL MONUMENT AT REQUIRED ELEVATION BASED ON SURROUNDING BRICK SURFACE. WELL DRILLER TO REMOVE WOOD FORM AND POUR CEMENT MONUMENT BASE FLUSH WITH SURROUNDING BRICK.

MONITORING WELL SURFACE COMPLETION CONSTRUCTION SEQUENCING - BRICK FINAL SURFACE 1



16-IN X 16-IN CONCRETE MONUMENT BASE, DYED RED TO 9-3/4-IN DIAMETER MONUMENT (SEE DETAIL 2 - MONUMENT DETAIL) MATCH EXISTING BRICK FINAL 12-IN X 6-IN BRICK SURFACE, BY SPR

MONUMENT DETAIL SCALE: NOT TO SCALE

MONITORING WELL SURFACE COMPLETION IN BRICK SURFACE



Know what's below. Call before you dig.

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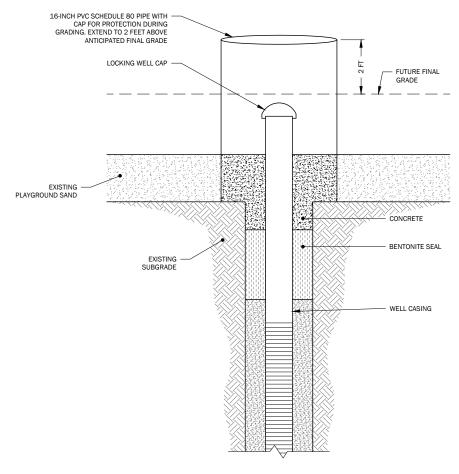


GAS WORKS PARK SITE PLAY AREA GROUNDWATER INFRASTRUCTURE INSTALLATION AS-BUILT SEATTLE, WASHINGTON

> MONITORING WELL SURFACE COMPLETION **CONSTRUCTION SEQUENCING BRICK PLAZA**

٦	DRAWN:	CFS	PROJ NO: 0186-846-01
Г	DESIGN: S	SMS	SHEET 7 OF 9
	CHECKED:	CLB	DATE: 08.30.2017
	SHEET NO.		

6.0

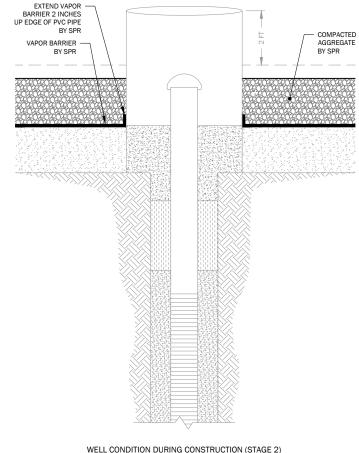


WELL CONDITION DURING CONSTRUCTION (STAGE 1)

COMPLETED

 MONITORING WELL INSTALLATION SHALL BE COMPLETED BY LICENSED WELL DRILLER PRIOR TO MOBILIZATION BY SPR RENOVATION CONTRACTOR.

- 2. MONITORING WELL PROTECTION SHALL BE INSTALLED BY WELL DRILLER.
- 3. TEMPORARY WELL PROTECTION COMPLETED BY WELL DRILLERS JUNE 2017.

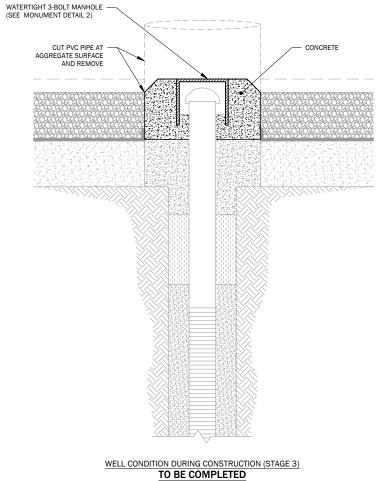


 $\frac{\text{WELL CONDITION DURING CONSTRUCTION (STAGE 2)}}{\text{\textbf{TO BE COMPLETED}}}$

 SPR RENOVATION CONTRACTOR WILL COMPLETE AGGREGATE SPR RENOVATION CONTRACTOR WILL CONFIDE A GRAFEGATE BACKFILLING AND GRADING TO PVC PROTECTION PIPE. CONTRACTOR TO EXERCISE CAUTION DURING BACKFILLING OPERATIONS AND PROTECT THE MONITORING WELL FROM DAMAGE.

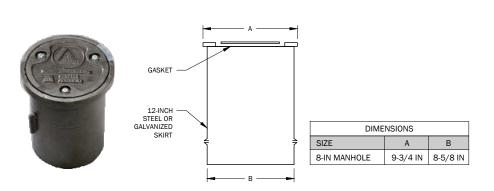
2. SPR RENOVATION CONTRACTOR WILL NOTIFY GEOENGINEERS AFTER

3. ALLOW APPROXIMATELY 90-180 DAYS FOR INSTALLATION BY SPR.



- LICENSED WELL DRILLER TO SET MANHOLE AND CONCRETE BASE AT PROPOSED ELEVATION OF PIP SURFACE TO BE INSTALLED BY SPR.
- 2. AFTER CONCRETE BASE SETS, LICENSED WELL DRILLER TO CUT PVC PIPE FORM WITH SURROUNDING AGGREGATE SURFACE AND REMOVE.
- 3. SPR CONTRACTOR TO INSTALL PIP SURFACE FLUSH WITH WELL

MONITORING WELL SURFACE COMPLETION CONSTRUCTION SEQUENCING - POURED IN PLACE FINAL SURFACE (1)



- 9-3/4-IN DIAMETER MONUMENT (SEE MONUMENT DETAIL) SET FLUSH WITH SURROUNDING PIP 16-IN DIAMETER CONCRETE MONUMENT BASE. DYE CONCRETE TO MATCH PIP MATERIAL PIP RUBBER SURFACE BY SPR

MONITORING WELL SURFACE COMPLETION IN POURED-IN-PLACE (PIP) RUBBER SURFACE



MONUMENT DETAIL	$\overline{2}$
SCALE: NOT TO SCALE	7.0

NO.	DATE	BY	REVISION



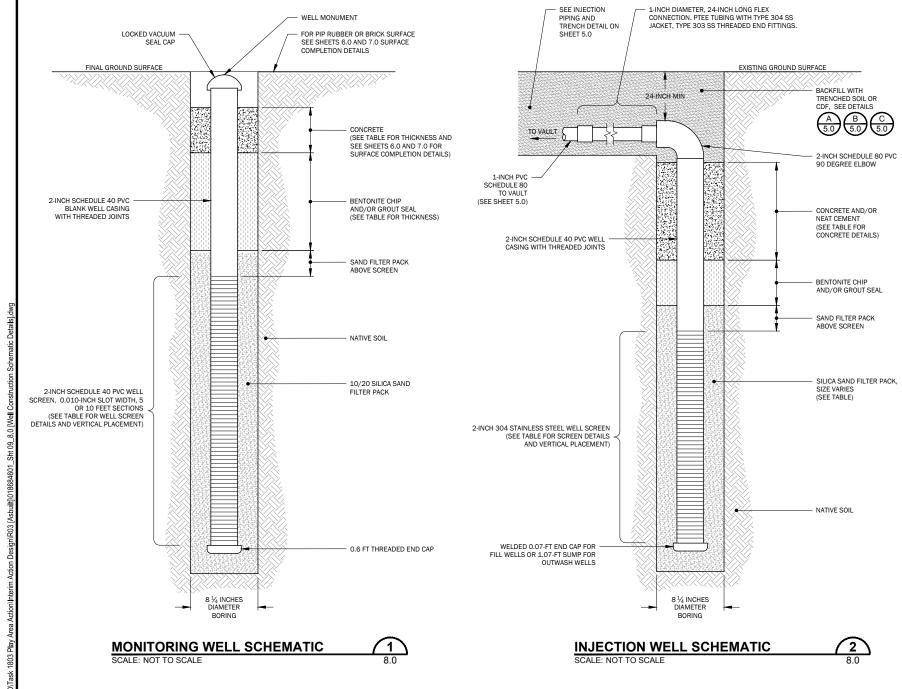


GAS WORKS PARK SITE PLAY AREA GROUNDWATER INFRASTRUCTURE INSTALLATION AS-BUILT SEATTLE, WASHINGTON

> MONITORING WELL SURFACE COMPLETION **CONSTRUCTION SEQUENCING PLAYGROUND**

٦	DRAWN:	CFS	PROJ NO: 0186-846-01
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WELL MONUMENT

WELL ID	WELL SCREEN GEOLOGIC UNIT			ELEVATION F (NAVD88				(FEET BELC	DEPTH (FEET BELOW GROUND SURFACE AT TIME OF INSTALLATION)		THICKNESS (FEET)				SAND FILTER	SLOT
		TOP OF CONCRETE	TOP OF NEAT CEMENT	TOP OF BENTONITE CHIP/ GROUT SEAL	TOP OF SAND	SCREEN START	SCREEN END	SCREEN START	SCREEN END	(FEET)	CONCRETE	NEAT CEMENT	BENTONITE CHIP/ GROUT SEAL	SAND FILTER PACK ABOVE SCREEN	PACK	SIZE
INJECTION V	WELLS															
A1	FILL	24.6	22.5	22.5	21.5	20.5	15.0	6.3	11.8	5.5	2.1 A	0.0	1.0	1.0	6/9	50
A2	FILL	24.3	23.2	23.2	22.2	21.2	15.7	5.7	11.2	5.5	1.1 A	0.0	1.0	1.0	6/9	50
A3	FILL	25.0	22.9	22.9	21.9	20.9	15.9	6.1	11.1	5.0	2.1 A	0.0	1.0	1.0	6/9	50
A4	FILL	25.1	23.3	23.3	22.3	21.3	17.8	6.2	9.7	3.5	1.8 A	0.0	1.0	1.0	6/9	50
A5	FILL	26.5	24.8	24.8	23.8	23.3	18.3	6.1	11.1	5.0	1.7	0.0	1.0	0.5	6/9	50
B1	FILL	23.7	22.3	22.3	21.3	20.3	10.8	6.5	16.0	9.5	1.4 A	0.0	1.0	1.0	6/9	50
B2	FILL	24.0	21.8	21.8	20.8	19.8	10.8	6.9	15.9	9.0	2.2 A	0.0	1.0	1.0	6/9	50
В3	OUTWASH	23.5	21.5	11.0	10.0	9.0	2.5	17.6	24.1	6.5	2.0	10.5	1.0	1.0	10/20	20
В4	FILL	23.9	21.9	21.9	20.9	19.9	13.4	6.9	13.4	6.5	2.0	0.0	1.0	1.0	6/9	50
B5	OUTWASH	23.8	21.8	11.3	10.3	9.3	2.3	17.5	24.5	7.0	2.0	10.5	1.0	1.0	10/20	20
B6	FILL	24.0	22.4	22.4	21.4	20.4	13.9	6.6	13.1	6.5	1.6	0.0	1.0	1.0	6/9	50
В7	FILL	24.3	22.4	22.4	21.4	20.4	15.4	7.0	12.0	5.0	1.9 A	0.0	1.0	1.0	6/9	50
B8	FILL	25.9	23.9	23.9	22.9	21.9	16.4	7.5	13.0	5.5	2.0	0.0	1.0	1.0	6/9	50
C1	FILL	25.4	22.8	22.8	21.8	20.8	13.3	10.3	17.8	7.5	2.6	0.0	1.0	1.0	6/9	50
C2	FILL	25.4	22.8	22.8	21.8	20.8	12.8	10.0	18.0	8.0	2.6	0.0	1.0	1.0	6/9	50
C3	OUTWASH	25.5	21.8	10.8	9.8	8.8	0.8	22.0	30.0	8.0	3.7	11.0	1.0	1.0	10/20	20
C4	FILL	25.9	23.2	23.2	22.2	21.2	15.7	9.5	15.0	5.5	2.7	0.0	1.0	1.0	6/9	50
C5	OUTWASH	25.6	21.4	9.4	8.4	7.4	0.4	23.3	30.3	7.0	4.2	12.0	1.0	1.0	10/20	20
C6	FILL	25.9	22.1	21.6	20.6	19.6	16.6	11.4	14.4	3.0	3.8	0.5	1.0	1.0	6/9	50
C7	OUTWASH	25.8	24.8	12.2	11.2	10.2	3.2	20.7	27.7	7.0	1.0	12.6	1.0	1.0	10/20	20
C8	FILL	25.9	23.6	23.6	22.6	21.6	16.1	9.3	14.8	5.5	2.3	0.0	1.0	1.0	6/9	50
C9	FILL	26.0	22.7	22.7	21.7	20.7	15.7	8.3	13.3	5.0	3.3	0.0	1.0	1.0	6/9	50
C10	OUTWASH	25.2	23.0	13.5	12.5	11.5	0.5	16.8	27.8	11.0	2.2	9.5	1.0	1.0	10/20	20
C10	OUTWASH	23.9	22.4	10.9	9.9	8.9	-3.1	18.6	30.6	12.0	1.5	11.5	1.0	1.0	10/20	20
C12	OUTWASH	24.0	21.2	5.2	4.2	3.2	-5.1	24.2	33.2	9.0	2.8	16.0	1.0	1.0	10/20	20
D1	FILL	25.5	21.7	20.7	19.7	18.7	12.7	12.1	18.1	6.0	3.8	1.0	1.0	1.0	4/8	90
			21.7	12.8	11.8		1.3		29.2	9.5		9.0	1.0	1.0		20
D2	OUTWASH	25.3				10.8	_	19.7			3.5			1.0	10/20	_
D3	FILL	25.3	21.5	20.5	19.5	18.5	11.5	11.8	18.8	7.0	3.8	1.0	1.0		4/8	90
D4	OUTWASH	25.3	20.3	9.3	8.3	7.3	-1.7	23.1	32.1	9.0	5.0	11.0	1.0	1.0	10/20	20
D5	FILL	25.6	22.4	21.4	20.4	19.4	9.4	11.1	21.1	10.0	3.2	1.0	1.0	1.0	4/8	90
D6	OUTWASH	25.4	21.5	9.5	8.5	7.5	-2.5	23.0	33.0	10.0	3.9	12.0	1.0	1.0	10/20	20
D7	FILL	24.9	21.3	21.3	20.3	19.3	12.3	8.7	15.7	7.0	3.6	0.0	1.0	1.0	4/8	90
D8	OUTWASH	24.6	19.6	11.0	10.0	9.0	-3.0	19.1	31.1	12.0	5.0	8.6	1.0	1.0	10/20	20
D9	OUTWASH	24.6	22.6	11.6	10.6	9.6	-2.4	18.2	30.2	12.0	2.0	11.0	1.0	1.0	10/20	20
D10	FILL	24.7	21.1	21.1	20.1	19.1	14.1	8.8	13.8	5.0	3.6	0.0	1.0	1.0	4/8	90
MONITORIN MW-41S		07.0		00:	010	1 04 4	101		40.5	F ^	4.5	0.0	4.5	0.5	10 /00	- 10
	FILL	27.6	-	26.1	24.6	24.1	19.1	5.5	10.5	5.0	1.5	0.0	1.5	0.5	10/20	10
MW-41D	OUTWASH	26.5	-	25.0	12.2	10.7	0.7	18.8	28.8	10.0	1.5	0.0	12.8	1.5	10/20	10
MW-42S	FILL	26.6	-	25.6	24.1	23.1	18.1	3.8	8.8	5.0	1.0	0.0	1.5	1.0	10/20	10
MW-43S	FILL	28.5	-	26.8	23.0	21.5	16.5	7.8	12.8	5.0	1.7	0.0	3.8	1.5	10/20	10
MW-44S	FILL	30.2	-	28.3	24.8	23.4	13.4	7.4	17.4	10.0	1.9	0.0	3.5	1.4	10/20	10
MW-45S	FILL	29.3	-	27.8	25.8	24.0	14.0	6.8	16.8	10.0	1.5	0.0	2.0	1.8	10/20	10
MW-45D	OUTWASH	29.8	-	28.3	7.3	5.2	0.2	25.6	30.6	5.0	1.5	0.0	21.0	2.1	10/20	10
MW-46S	FILL	24.4		23.0	20.5	18.0	8.0	7.5	17.5	10.0	1.4	0.0	2.5	2.5	10/20	10
MW-46D	OUTWASH	24.4	-	23.4	2.9	0.9	-4.1	24.5	29.5	5.0	1.0	0.0	20.5	2.0	10/20	10
MW-47S	FILL	29.3	-	28.0	19.5	15.7	10.7	14.8	19.8	5.0	1.3	0.0	8.5	3.8	10/20	10
MW-48D	OUTWASH	26.2	-	24.7	5.7	4.7	-5.3	22.5	32.5	10.0	1.5	0.0	19.0	1.0	10/20	10
MW-49D	OUTWASH	25.6	-	22.2	3.7	2.1	-7.9	24.6	34.6	10.0	3.4	0.0	18.5	1.6	10/20	10
MW-50D	OUTWASH	24.5	-	23.0	-1.0	-4.1	-9.1	29.6	34.6	5.0	1.5	0.0	24.0	3.1	10/20	10
MW-51S	FILL	24.8	-	23.2	19.7	18.8	8.8	6.9	16.9	10.0	1.6	0.0	3.5	0.9	10/20	10
MW-52D	OUTWASH	24.8	-	20.8	-1.7	-4.0	-9.0	29.8	34.8	5.0	4.0	0.0	22.5	2.3	10/20	10
				ES. CONCRETE 0.020-INCH OP						PENING						

Know what's below.
Call before you dig.

cstickel P:\0\0	A N S	AND PIP RUBBER. SURFACE COMPLETION IN BRICK AND PIP RUBBER. SURFACE COMPLETION IN ASPHALT AND GRASS TO MATCH EXISTING CONDITIONS PRIOR TO DRILLING. 12-INCH MONUMENT SKIRT LENGTH SHALL BE USED FOR MONITORING WELL COMPLETIONS. WELL DETAILS BASED ON FIELD MEASUREMENTS.								
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18/29/2017,										
8/2										

NOTES:

1. REFER TO SHEETS 6.0 AND 7.0 FOR SURFACE COMPLETION IN BRICK

GEOENGINEERS / 600 STEWART ST : SUITE 1700 : SEATTLE, WA 98101 : 206-728-2674 : WWW.GEOENGINEERS.COM

1-INCH DIAMETER, 24-INCH LONG FLEX CONNECTION. PTEE TUBING WITH TYPE 304 SS JACKET, TYPE 303 SS THREADED END FITTINGS.



GAS WORKS PARK SITE PLAY AREA GROUNDWATER INFRASTRUCTURE INSTALLATION AS-BUIL SEATTLE, WASHINGTON

WELL CONSTRUCTION SCHEMATIC DETAILS

	DRAWN: CFS	PROJ NO: 0186-846-01
T.	DESIGN: SMS	SHEET 9 OF 9
	CHECKED: CLB	DATE: 08.30.2017
	SHEET NO.	

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AS-BUILT

APPENDIX E Monitoring Well Installation Logs

SOIL CLASSIFICATION CHART

	MAJOR DIVIS	IONE	SYM	BOLS	TYPICAL
	MAJOR DIVIS	10143	GRAPH	LETTER	DESCRIPTIONS
	GRAVEL	CLEAN GRAVELS		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES
	AND GRAVELLY SOILS	(LITTLE OR NO FINES)		GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES
COARSE GRAINED SOILS	MORE THAN 50% OF COARSE	GRAVELS WITH FINES		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
30113	FRACTION RETAINED ON NO. 4 SIEVE	(APPRECIABLE AMOUNT OF FINES)		GC	CLAYEY GRAVELS, GRAVEL - SAND CLAY MIXTURES
MORE THAN 50%	SAND	CLEAN SANDS		SW	WELL-GRADED SANDS, GRAVELLY SANDS
RETAINED ON NO. 200 SIEVE	AND SANDY SOILS	(LITTLE OR NO FINES)		SP	POORLY-GRADED SANDS, GRAVELI SAND
	MORE THAN 50% OF COARSE FRACTION PASSING	SANDS WITH FINES		SM	SILTY SANDS, SAND - SILT MIXTUR
	ON NO. 4 SIEVE	(APPRECIABLE AMOUNT OF FINES)		sc	CLAYEY SANDS, SAND - CLAY MIXTURES
				ML	INORGANIC SILTS, ROCK FLOUR, CLAYEY SILTS WITH SLIGHT PLASTICITY
FINE GRAINED	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50		CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS LEAN CLAYS
SOILS				OL	ORGANIC SILTS AND ORGANIC SILT CLAYS OF LOW PLASTICITY
MORE THAN 50% PASSING NO. 200 SIEVE				МН	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS SILTY SOILS
	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		СН	INORGANIC CLAYS OF HIGH PLASTICITY
				ОН	ORGANIC CLAYS AND SILTS OF MEDIUM TO HIGH PLASTICITY
	HIGHLY ORGANIC	SOILS		PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

NOTE: Multiple symbols are used to indicate borderline or dual soil classifications

Sampler Symbol Descriptions

2.4-inch I.D. split barrel

Standard Penetration Test (SPT)

Shelby tube
Piston

Direct-Push
Bulk or grab
Continuous Coring

Blowcount is recorded for driven samplers as the number of blows required to advance sampler 12 inches (or distance noted). See exploration log for hammer weight and drop.

"P" indicates sampler pushed using the weight of the drill rig.

"WOH" indicates sampler pushed using the weight of the hammer.

ADDITIONAL MATERIAL SYMBOLS

SYM	BOLS	TYPICAL
GRAPH	LETTER	DESCRIPTIONS
	AC	Asphalt Concrete
	cc	Cement Concrete
33	CR	Crushed Rock/ Quarry Spalls
1/ 1/1/ 1/1/ 1/1/ 1/1/ 1/1/ 1/1/ 1/1/	SOD	Sod/Forest Duff
	TS	Topsoil

Groundwater Contact

Y

Measured groundwater level in exploration, well, or piezometer



Measured free product in well or piezometer

Graphic Log Contact

- Distinct contact between soil strata

Approximate contact between soil strata

Material Description Contact

Contact between geologic units

Contact between soil of the same geologic unit

Laboratory / Field Tests

%F Percent fines
%G Percent gravel
AL Atterberg limits
CA Chemical analysis
CP Laboratory compaction test
CS Consolidation test

CS Consolidation test
DD Dry density
DS Direct shear
HA Hydrometer analysis

MC Moisture content
MD Moisture content and dry density

Mohs Mohs hardness scale OC Organic content

PM Permeability or hydraulic conductivity
Pl Plasticity index

PP Pocket penetrometer
SA Sieve analysis
TX Triaxial compression
UC Unconfined compression

VS Vane shear

Sheen Classification

NS No Visible Sheen SS Slight Sheen MS Moderate Sheen HS Heavy Sheen

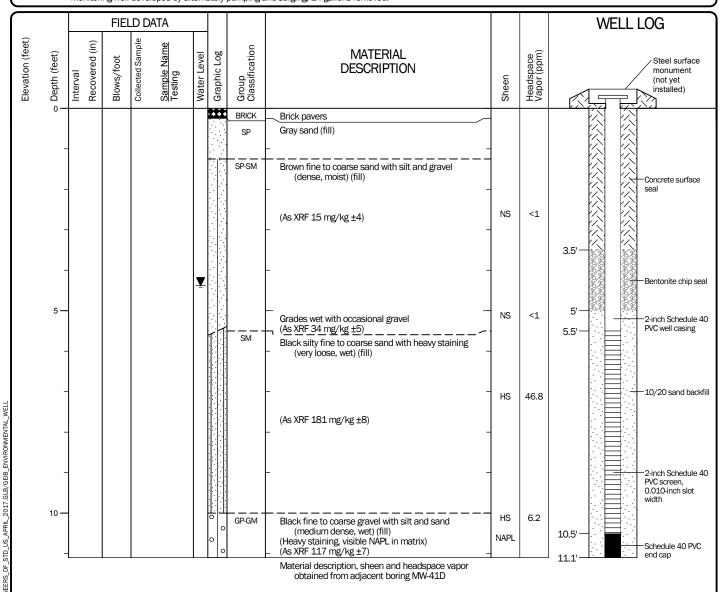
NOTE: The reader must refer to the discussion in the report text and the logs of explorations for a proper understanding of subsurface conditions. Descriptions on the logs apply only at the specific exploration locations and at the time the explorations were made; they are not warranted to be representative of subsurface conditions at other locations or times.

Key to Exploration Logs



Figure E-1

Start Drilled 3/28/2017	<u>End</u> 3/28/2017	Total Depth (ft)	11.1	Logged By Checked By	PDR SBS	Driller Cascade Drilling		Drilling 8½-inch (DD Hollow-stem Auger	
Hammer Data	Wire Release 140 (lbs) / 30 (in) Drop			Drilling CME 55 Equipment			DOE Well I.D.: BKA 043 A 2 (in) well was installed on 3/28/2017 to a depth of			
Surface Elevation (ft) Vertical Datum	()			Top of Casing Elevation (ft)	32.27		11.1 (ft). <u>Groundwater</u>	Depth to		
Easting (X) 1270626.07 Northing (Y) 239123.85				Horizontal Datum	WA	State Plane North NAD83 (feet)	<u>Date Measured</u> 4/24/2017	<u>Water (ft)</u> 4.38	Elevation (ft)	
Notes: Monitoring well temporarily protected by a 16-inch square, 12-inch deep, covered wood form per drawing Sheet 6.0 (Stage 1). Monitoring well developed by alternately pumping and surging; 14 gallons removed.										



Note: See Figure A-1 for explanation of symbols. Coordinates Data Source: Horizontal approximated based on Locational Survey, Vertical approximated based on Locational Survey.

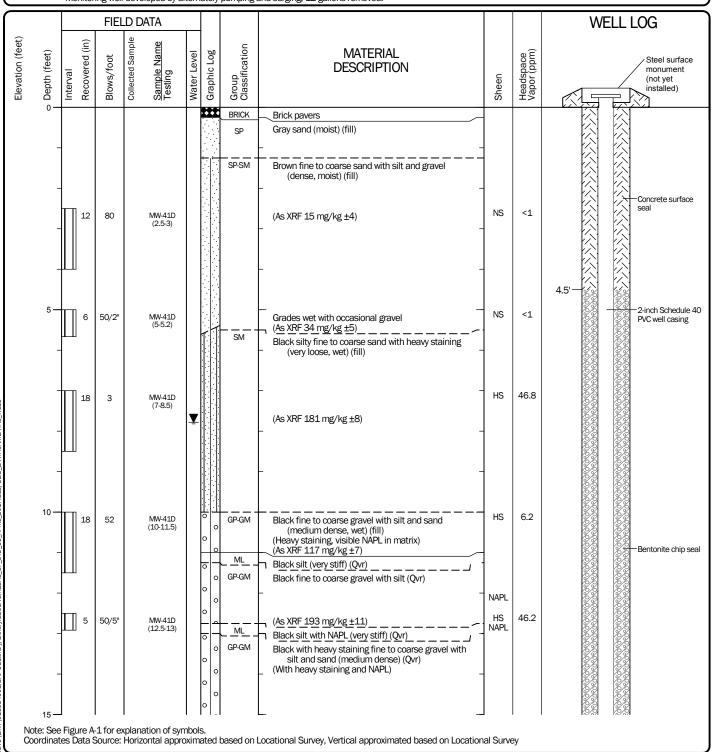
Log of Monitoring Well MW-41S



Project: GWPS-Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington

Start Drilled 3/28/2017	<u>End</u> 3/28/2017	Total Depth (ft)	29.4	Logged By Checked By	PDR SBS	Driller Cascade Drilling		Drilling 8½-inch (OD Hollow-stem Auger		
Hammer Data				Drilling Equipment	CIVIE 33			DOE Well I.D.: BKA 042 A 2 (in) well was installed on 3/28/2017 to a depth of			
Surface Elevation (ft) Vertical Datum		Undetermined USACE (Locks)		Top of Casing Elevation (ft)	32.44		29.4 (ft). <u>Groundwater</u>	Depth to			
Easting (X) 1270628.03 Northing (Y) 239126.07				Horizontal Datum	WA	State Plane North NAD83 (feet)	<u>Date Measured</u> 4/24/2017	<u>Water (ft)</u> 7.78	Elevation (ft)		
Notes: Monitoring well temporarily protected by a 16-inch square, 12-inch deep, covered wood form per drawing Sheet 6.0 (Stage 1). Monitoring well developed by atternately pumping and surging: 12 gallons removed.											



Log of Monitoring Well MW-41D

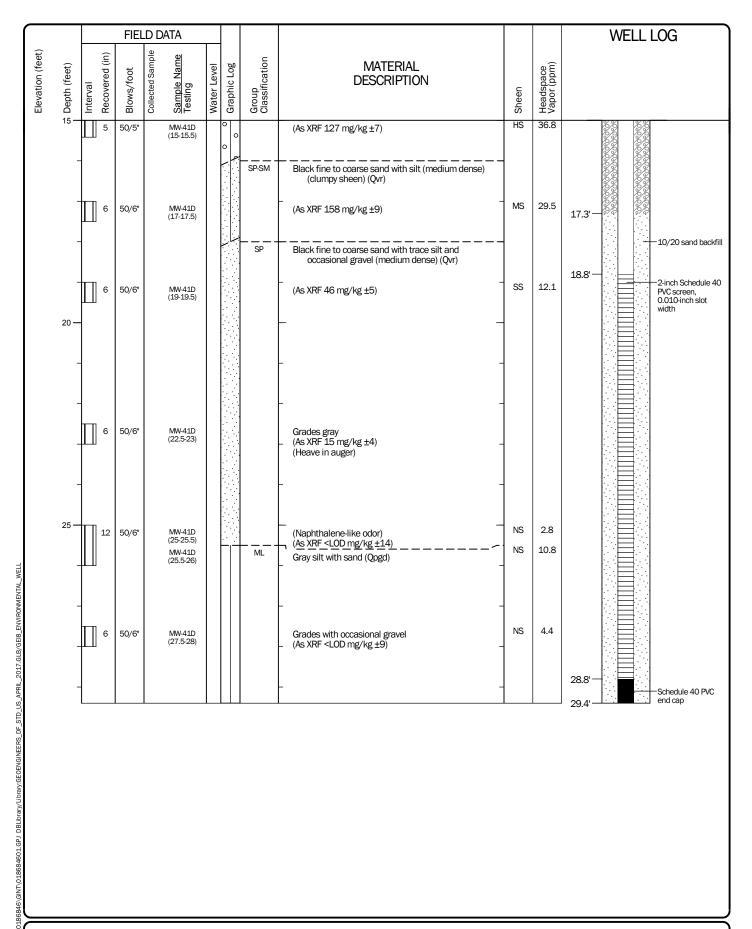


Project: GWPS-Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington

Project Number: 0186-846-01

Figure E-3 Sheet 1 of 2



Log of Monitoring Well MW-41D (continued)



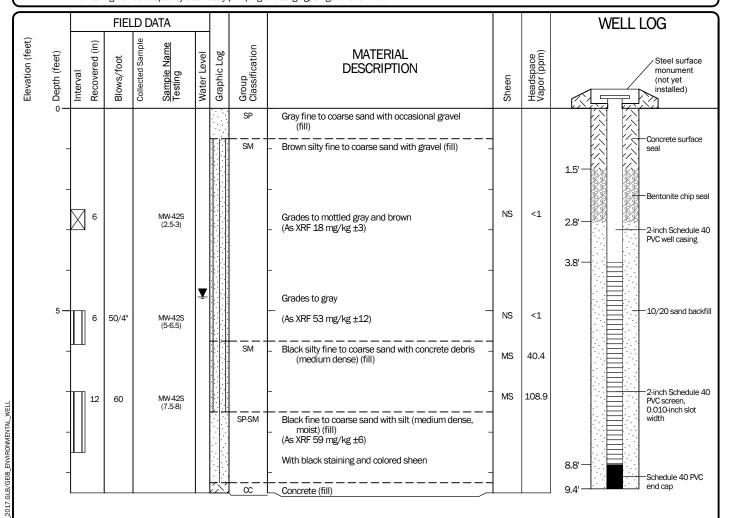
Project: GWPS-Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington

Project Number: 0186-846-01

Figure E-3 Sheet 2 of 2

Start Drilled 3/27/2017	<u>End</u> 3/27/2017	Total Depth (ft)	9.5	Logged By Checked By	PDR SBS	Driller Cascade Drilling		Drilling 8½-inch	OD Hollow-stem Auger	
Hammer Data	Wire Rel 140 (lbs) / 30			Drilling CME 55 Equipment			DOE Well I.D.: BKA 040 A 2 (in) well was installed on 3/27/2017 to a depth of 9.4			
Surface Elevation (ft) Vertical Datum	, , , , , , , , , , , , , , , , , , , ,			Top of Casing Elevation (ft)	36.10		Groundwater	Depth to		
Easting (X) Northing (Y)		0667.56 153.02		Horizontal Datum	WA	State Plane North NAD83 (feet)	<u>Date Measured</u> 4/24/2017	<u>Water (ft)</u> 4.66	Elevation (ft)	
Notes: Monitoring well temporarily protected by a 16-inch-diameter Schedule 80 PVC covered protective pipe, per drawing Sheet 7.0 (Stage 1). Monitoring well developed by alternately pumping and surging; 32 gallons removed.										



Note: See Figure A-1 for explanation of symbols. Coordinates Data Source: Horizontal approximated based on Locational Survey, Vertical approximated based on Locational Survey.

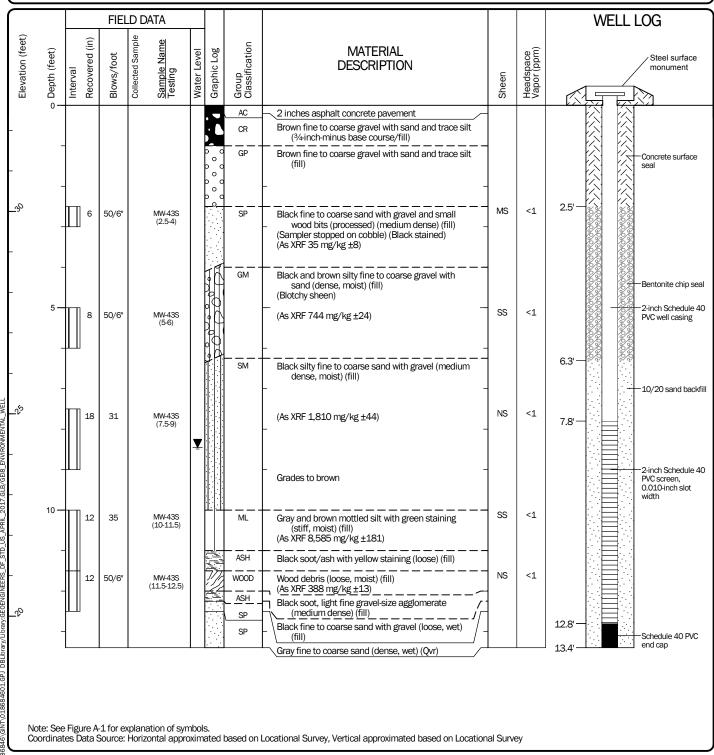
Log of Monitoring Well MW-42S



Project: GWPS-Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington

<u>Start</u> Drilled 4/12/2017	<u>End</u> 4/12/2017	Total Depth (ft)	13.4	Logged By Checked By	PDR SBS	Driller Cascade Drilling		Drilling Method 81/4-inch OD Hollow-stem Au		
Hammer Data	111101101000			Drilling CME 55 Equipment			DOE Well I.D.: BKA 072 A 2 (in) well was installed on 4/12/2017 to a depth of			
Surface Elevation (ft) Vertical Datum	32.62 USACE (Locks)			Top of Casing Elevation (ft)		32.28	13.4 (ft). Groundwater	Depth to		
Easting (X) Northing (Y)				Horizontal Datum	WA	State Plane North NAD83 (feet)	<u>Date Measured</u> 4/24/2017	<u>Water (ft)</u> 8.45	Elevation (ft) 23.83	
Notes: Monitoring well completed with an 8-inch-diameter steel flush-mounted monument. Monitoring well developed by alternately pumping and surging; 11 gallons removed.										



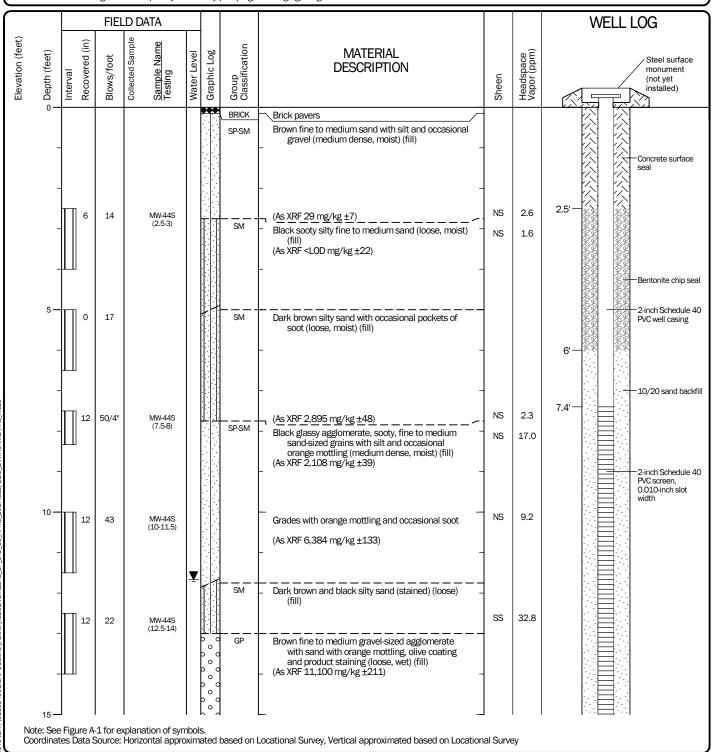
Log of Monitoring Well MW-43S



Project: GWPS-Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington

<u>Start</u> Drilled 4/14/2017	<u>End</u> 4/14/2017	Total Depth (ft)	19	Logged By Checked By	CDV SBS	Driller Cascade Drilling		Drilling 8½-inch (DD Hollow-stem Auger		
Hammer Data					Drilling CME 55 Equipment			DOE Well I.D.: BKA 056 A 2 (in) well was installed on 4/14/2017 to a depth of			
Surface Elevation (ft) Vertical Datum	, , , , , , , , , , , , , , , , , , , ,			Top of Casing Elevation (ft)	33.54		18.0 (ft). Groundwater	Depth to			
Easting (X) Northing (Y))720.72 159.31		Horizontal Datum	WA	A State Plane North NAD83 (feet)	<u>Date Measured</u> 4/24/2017	<u>Water (ft)</u> 11.67	Elevation (ft)		
Notes: Monitoring well temporarily protected by a 16-inch square, 12-inch deep, covered wood form per drawing Sheet 6.0 (Stage 1). Monitoring well developed by alternately pumping and surging; 14 gallons removed.											



Log of Monitoring Well MW-44S



Project: GWPS-Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington

			FIEL	D D	ATA						WELL LOG
Elevation (feet)	ট Depth (feet) I	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Water Level	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	
	13	9	9		MW-44S (15-16.5)		ML GP	Gray silt with trace sand (medium stiff, wet) (fill) (As XRF 3,501 mg/kg ±93) Brown gravel-sized agglomerate (very loose) (fill) (As XRF 2,206 mg/kg ±42)	MS NS	221.3 15.0	17.4'—
	_	12	50/3"		MW-44S (17.5-18.5)		SP-SM	Gray silty sand (medium dense, wet) (Qvr) (As XRF 94 mg/kg ±7) Gray fine to medium sand with silt (medium dense, wet) (Qvr) (Product staining, blocky sheen) (As XRF 14 mg/kg ±3)	NS SS	27.9 341.8	Schedule 40 PVC end cap

Log of Monitoring Well MW-44S (continued)



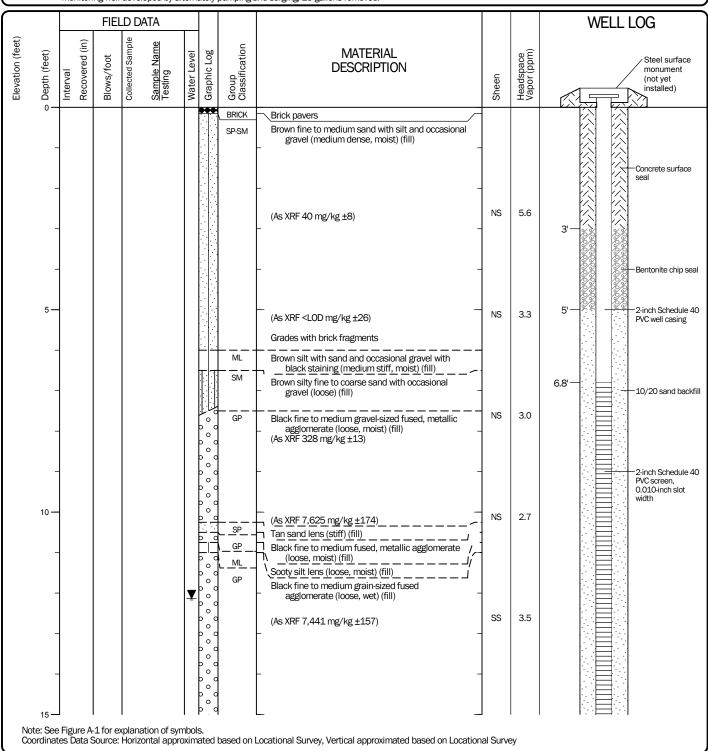
Project: GWPS-Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington

Project Number: 0186-846-01

Figure E-6 Sheet 2 of 2

Start Drilled 3/31/2017	<u>End</u> 3/31/2017	Total Depth (ft)	17.5	Logged By Checked By	CDV SBS	Driller Cascade Drilling		Drilling 8½-inch OD I	Hollow-stem Auger		
Hammer Data	er Wire Release 140 (lbs) / 30 (in) Drop				Drilling CME 55 Equipment			DOE Well I.D.: BKA 051 A 2 (in) well was installed on 3/31/2017 to a depth of			
Surface Elevation (ft) Vertical Datum	* /			Top of Casing Elevation (ft)		33.99	17.4 (ft). Groundwater	Depth to			
Easting (X) 1270725.64 Northing (Y) 239142.50			Horizontal Datum	WA	State Plane North NAD83 (feet)	<u>Date Measured</u> 4/24/2017	Water (ft) 12.13	Elevation (ft)			
Notes: Monitoring well temporarily protected by a 16-inch square, 12-inch deep, covered wood form per drawing Sheet 6.0 (Stage 1). Monitoring well developed by alternately pumping and surging; 29 gallons removed.											

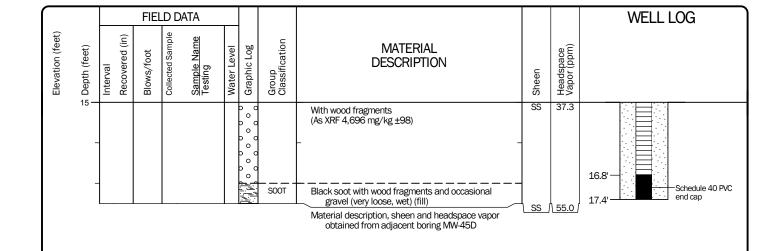


Log of Monitoring Well MW-45S



Project: GWPS-Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington



Log of Monitoring Well MW-45S (continued)



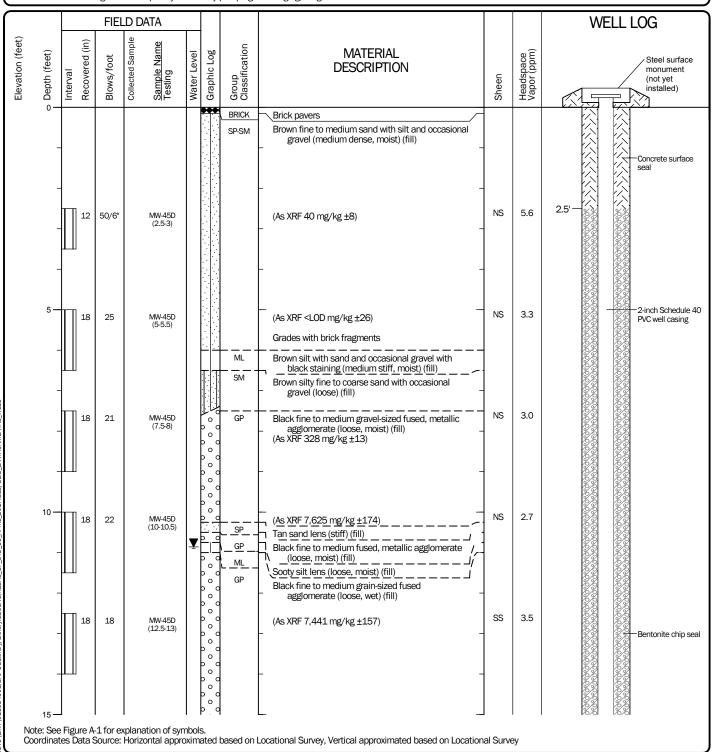
Project: GWPS-Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington

Project Number: 0186-846-01

Figure E-7 Sheet 2 of 2

Start Drilled 3/31/2017	<u>End</u> 3/31/2017	Total Depth (ft)	31.2	Logged By Checked By	CDV SBS	Driller Cascade Drilling		Drilling 8½-inch (OD Hollow-stem Auger		
Hammer Data					Drilling CME 55 Equipment			DOE Well I.D.: BKA 050 A 2 (in) well was installed on 3/31/2017 to a depth of			
Surface Elevation (ft) Vertical Datum	, , , , , , , , , , , , , , , , , , , ,			Top of Casing Elevation (ft)	33.25		31.2 (ft). Groundwater	Depth to			
Easting (X) Northing (Y))727.34 138.49		Horizontal Datum	WA	A State Plane North NAD83 (feet)	<u>Date Measured</u> 4/24/2017	<u>Water (ft)</u> 10.86	Elevation (ft)		
Notes: Monitoring well temporarily protected by a 16-inch square, 12-inch deep, covered wood form per drawing Sheet 6.0 (Stage 1). Monitoring well developed by alternately pumping and surging, 37 gallons removed.											

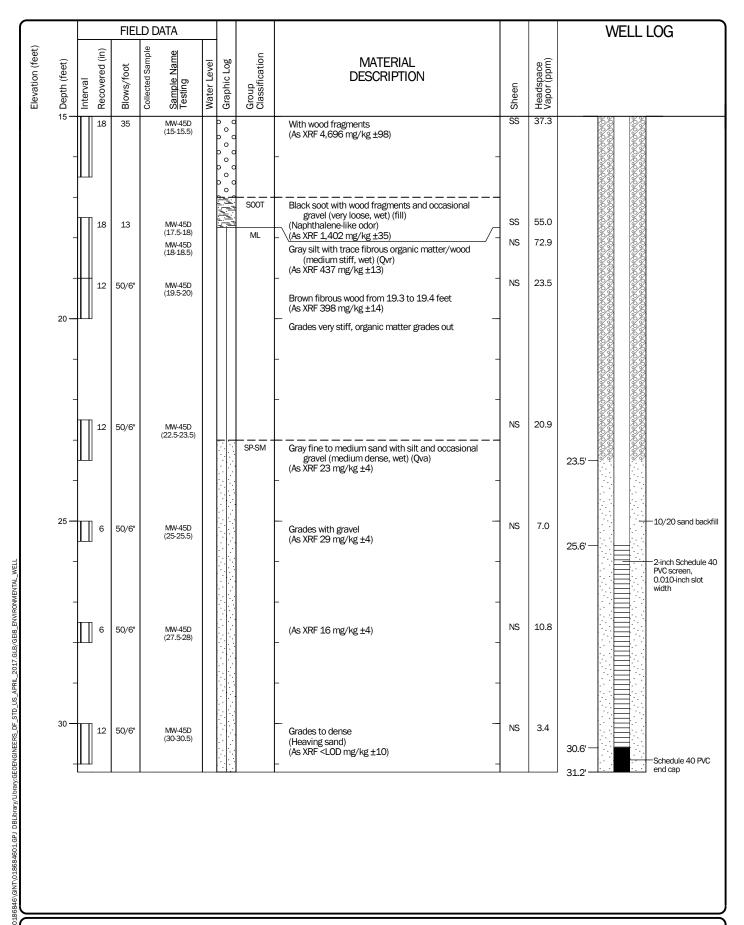


Log of Monitoring Well MW-45D



Project: GWPS-Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington



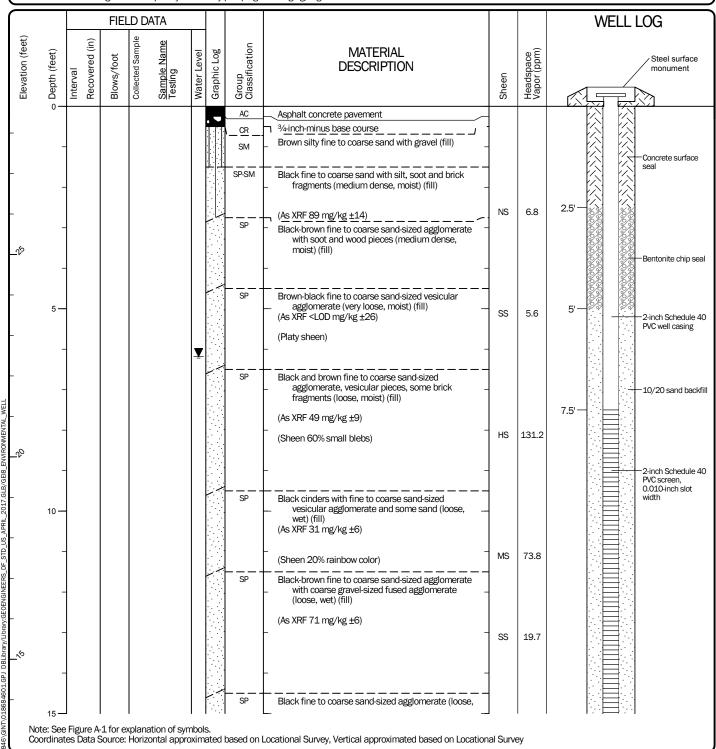
Log of Monitoring Well MW-45D (continued)



Project: GWPS-Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington

<u>Start</u> Drilled 4/13/2017	<u>End</u> 4/13/2017	Total Depth (ft)	18.1	Logged By Checked By	CDV SBS	Driller Cascade Drilling		Drilling 8½-inch 0	D Hollow-stem Auger		
Hammer Data	THIC I CICAGO				Drilling CME 55 Equipment			DOE Well I.D.: BKA 078 A 2 (in) well was installed on 4/13/2017 to a depth of			
Surface Elevation (ft) Vertical Datum	28.66 USACE (Locks)		Top of Casing Elevation (ft)	28.09		18.1 (ft). Groundwater	Depth to				
Easting (X) 1270760.23 Northing (Y) 239143.44			Horizontal Datum	WA	State Plane North NAD83 (feet)	<u>Date Measured</u> 4/24/2017	<u>Water (ft)</u> 6.18	Elevation (ft) 21.9			
Notes: Monitoring well completed with an 8-inch-diameter steel flush-mounted monument. Monitoring well developed by alternately pumping and surging; 8 gallons removed.											

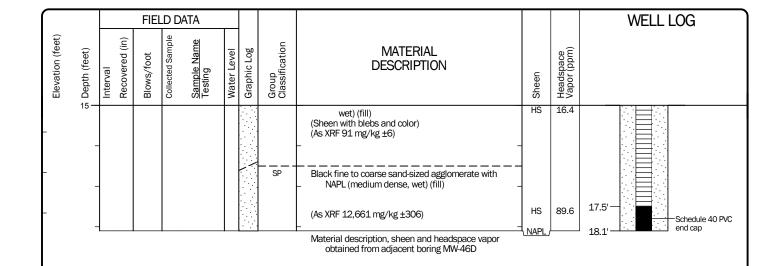


Log of Monitoring Well MW-46S



Project: GWPS-Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington



Log of Monitoring Well MW-46S (continued)



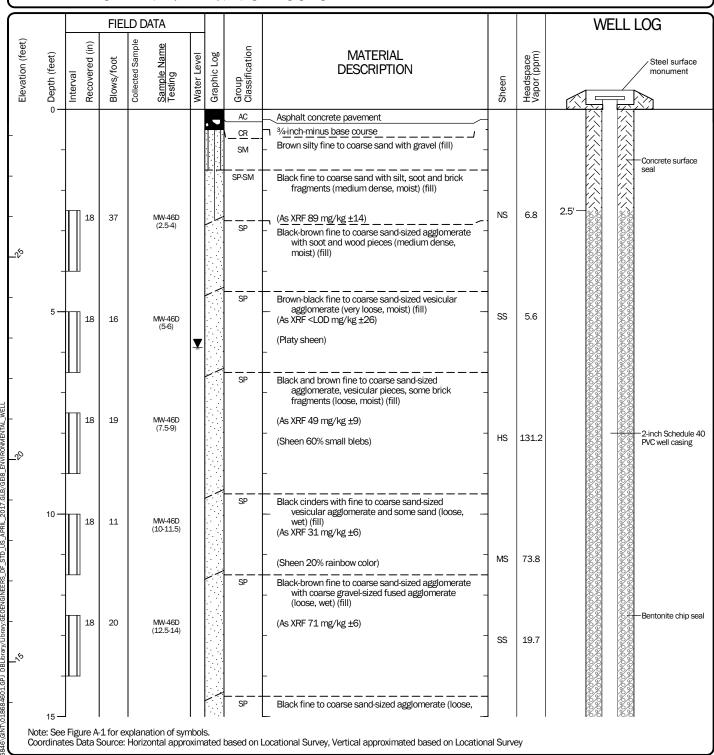
Project: GWPS-Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington

Project Number: 0186-846-01

Figure E-9 Sheet 2 of 2

Start Drilled 4/13/2017	<u>End</u> 4/13/2017	Total Depth (ft)	30.5	Logged By Checked By	PDR SBS	Driller Cascade Drilling		Drilling 8½-inch C	DD Hollow-stem Auger		
Hammer Data	Wire Rel 140 (lbs) / 30			Drilling Equipment		CME 55	DOE Well I.D.: BKA 074 A 2 (in) well was installed on 4/13/2017 to a depth of				
Surface Elevation (ft) Vertical Datum	8.65 E (Locks)		Top of Casing Elevation (ft) 28.17			30.1 (ft). Groundwater	Depth to				
Easting (X) Northing (Y))760.61 148.59		Horizontal Datum	WA	A State Plane North NAD83 (feet)	<u>Date Measured</u> 4/24/2017	<u>Water (ft)</u> 5.9	Elevation (ft) 22.3		
Monitoring well completed with an 8-inch-diameter steel flush-mounted monument. Notes: Monitoring well developed by alternately pumping and surging; 13 gallons removed.											



Log of Monitoring Well MW-46D

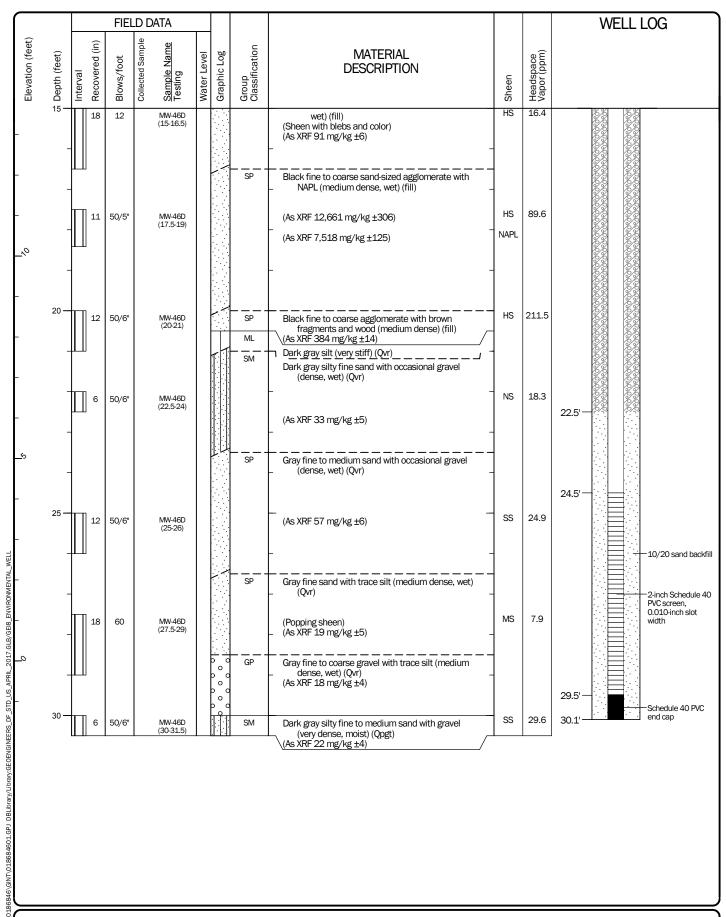


Project: GWPS-Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington

Project Number: 0186-846-01

Figure E-10 Sheet 1 of 2



Log of Monitoring Well MW-46D (continued)



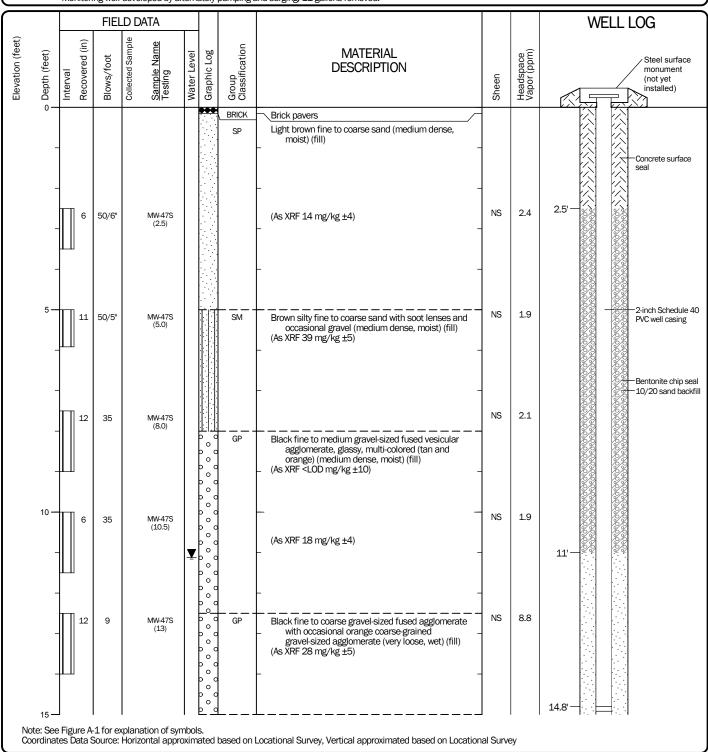
Project: GWPS-Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington

Project Number: 0186-846-01

Figure E-10 Sheet 2 of 2

<u>Start</u> Drilled 4/4/2017	<u>End</u> 4/4/2017	Total Depth (ft)	20.7	Logged By Checked By	CDV SBS	Driller Cascade Drilling		Drilling 8½-inch C	DD Hollow-stem Auger		
Hammer Data	Wire Release Drilling CME 55 DOE Well I.D.: BKA 057 A 2 (in) well was installed on 4/4/2017 to a december 2015 DOE Well I.D.: BKA 057 A 2 (in) well was installed on 4/4/2017 to a december 2015 DOE Well I.D.: BKA 057 A 2 (in) well was installed on 4/4/2017 to a december 2015 DOE Well I.D.: BKA 057 A 2 (in) well was installed on 4/4/2017 to a december 2015 DOE Well I.D.: BKA 057 A 2 (in) well was installed on 4/4/2017 to a december 2015 DOE Well I.D.: BKA 057 A 2 (in) well was installed on 4/4/2017 to a december 2015 DOE Well I.D.: BKA 057 A 2 (in) well was installed on 4/4/2017 to a december 2015 DOE Well I.D.: BKA 057 A 2 (in) well was installed on 4/4/2017 to a december 2015 DOE Well I.D.: BKA 057 A 2 (in) well was installed on 4/4/2017 to a december 2015 DOE Well I.D.: BKA 057 A 2 (in) well was installed on 4/4/2017 to a december 2015 DOE Well I.D.: BKA 057 A 2 (in) well was installed on 4/4/2017 to a december 2015 DOE Well I.D.: BKA 057 A 2 (in) well was installed on 4/4/2017 to a december 2015 DOE Well I.D.: BKA 057 A 2 (in) well was installed on 4/4/2017 to a december 2015 DOE Well I.D.: BKA 057 A 2 (in) well was installed on 4/4/2017 to a december 2015 DOE Well I.D.: BKA 057 A 2 (in) well was installed on 4/4/2017 to a december 2015 DOE Well I.D.: BKA 057 A 2 (in) well was installed on 4/4/2017 to a december 2015 DOE Well I.D.: BKA 057 A 2 (in) well was installed on 4/4/2017 to a december 2015 DOE Well I.D.: BKA 057 A 2 (in) well was installed on 4/4/2017 to a december 2015 DOE Well I.D.: BKA 057 A 2 (in) well was installed on 4/4/2017 to a december 2015 DOE Well I.D.: BKA 057 A 2 (in) well was installed on 4/4/2017 to a december 2015 DOE Well I.D.: BKA 057 A 2 (in) well was installed on 4/4/2017 to a december 2015 DOE Well I.D.: BKA 057 A 2 (in) well was installed on 4/4/2017 to a december 2015 DOE Well I.D.: BKA 057 A 2 (in) well was installed on 4/4/2017 to a december 2015 DOE Well I.D.: BKA 057 A 2 (in) well was installed on 4/4/2017 to a december 2015 DOE Well I.D.: BKA 057 A 2 (in) well was installe							7 to a depth of 20.4			
Surface Elevation (ft) Vertical Datum	termined E (Locks)		Top of Casing Elevation (ft)		33.05	Groundwater	Depth to				
Easting (X) Northing (Y)		0743.9 111.94		Horizontal Datum	WA	A State Plane North NAD83 (feet)	<u>Date Measured</u> 4/24/2017	Water (ft) 11.12	Elevation (ft)		
Notes: Monitoring well temporarily protected by a 16-inch square, 12-inch deep, covered wood form per drawing Sheet 6.0 (Stage 1). Monitoring well developed by alternately pumping and surging: 11 gallons removed.											

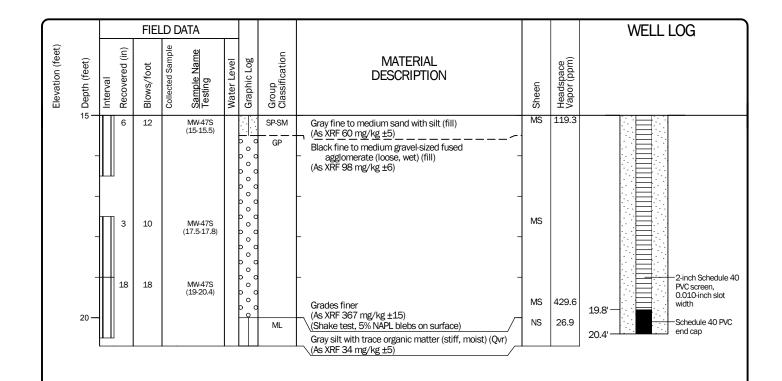


Log of Monitoring Well MW-47S



Project: GWPS-Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington



Log of Monitoring Well MW-47S (continued)



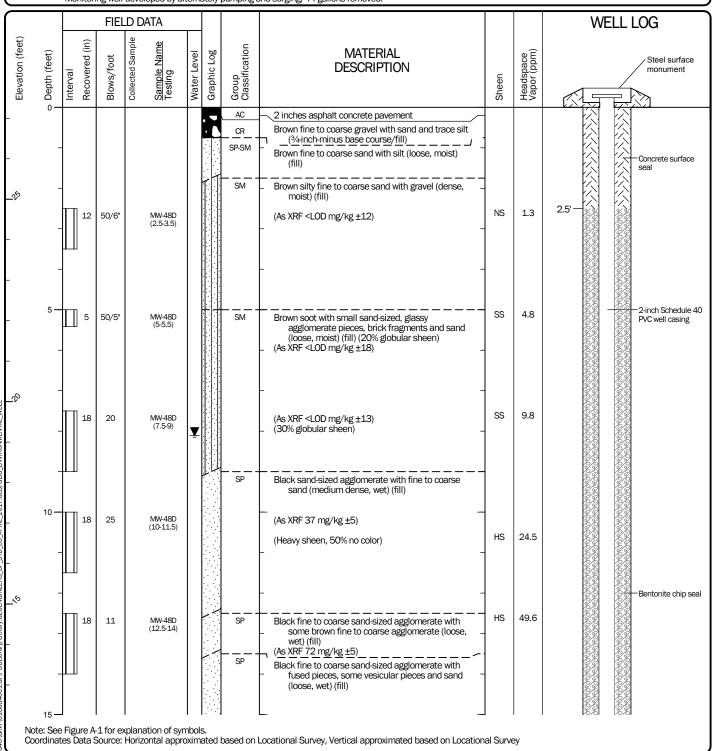
Project: GWPS-Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington

Project Number: 0186-846-01

Figure E-11 Sheet 2 of 2

Start Drilled 4/13/2017	<u>End</u> 4/13/2017	Total Depth (ft)	33.1	Logged By Checked By	PDR SBS	Driller Cascade Drilling		Drilling 8½-inch C	D Hollow-stem Auger		
									u: BKA 073 was installed on 4/13/2017 to a depth of		
Surface Elevation (ft) Vertical Datum	7.27 E (Locks)		Top of Casing Elevation (ft)		30.05	33.1 (ft). Groundwater	Depth to				
Easting (X) Northing (Y))756.15 081.86		Horizontal Datum	WA	State Plane North NAD83 (feet)	<u>Date Measured</u> 4/24/2017	<u>Water (ft)</u> 8.1	Elevation (ft) 21.9		
Notes: Monitoring well completed with an 8-inch-diameter steel flush-mounted monument. Monitoring well developed by alternately pumping and surging; 44 gallons removed.											

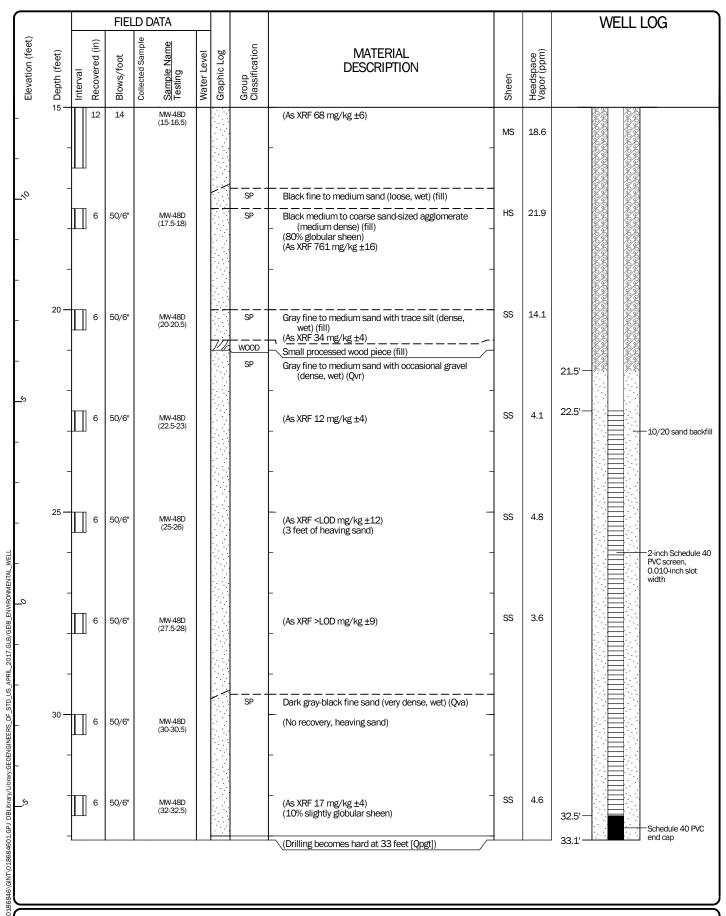


Log of Monitoring Well MW-48D



Project: GWPS-Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington



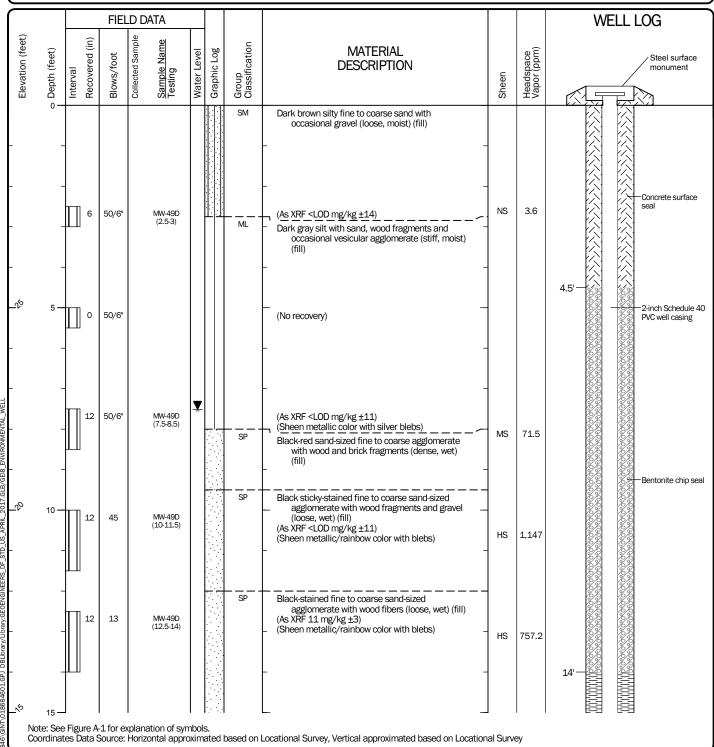
Log of Monitoring Well MW-48D (continued)



Project: GWPS-Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington

<u>Start</u> Drilled 4/18/2017	Drilled 4/18/2017 4/18/2017 Depth (ft) SBS Driller Cascade Drilling Method 8/4-inch OD Hollow-stem Auger													
Hammer Data	ata 140 (lbs)/30 (in) Drop Equipment A 2 (in) well was installed on 4/18								17 to a depth of					
Surface Elevation (ft) 30.00 Top of Casing Vertical Datum USACE (Locks) Elevation (ft) 29.40 Groundwater Depth to														
Easting (X) Northing (Y)		0775.15 063.29		Horizontal Datum	WA	State Plane North NAD83 (feet)	<u>Date Measured</u> 4/24/2017	<u>Water (ft)</u> 7.5	Elevation (ft) 21.9					
	Notes: Monitoring well completed with an 8-inch-diameter steel flush-mounted monument. Monitoring well developed by alternately pumping and surging; 5 gallons removed.													

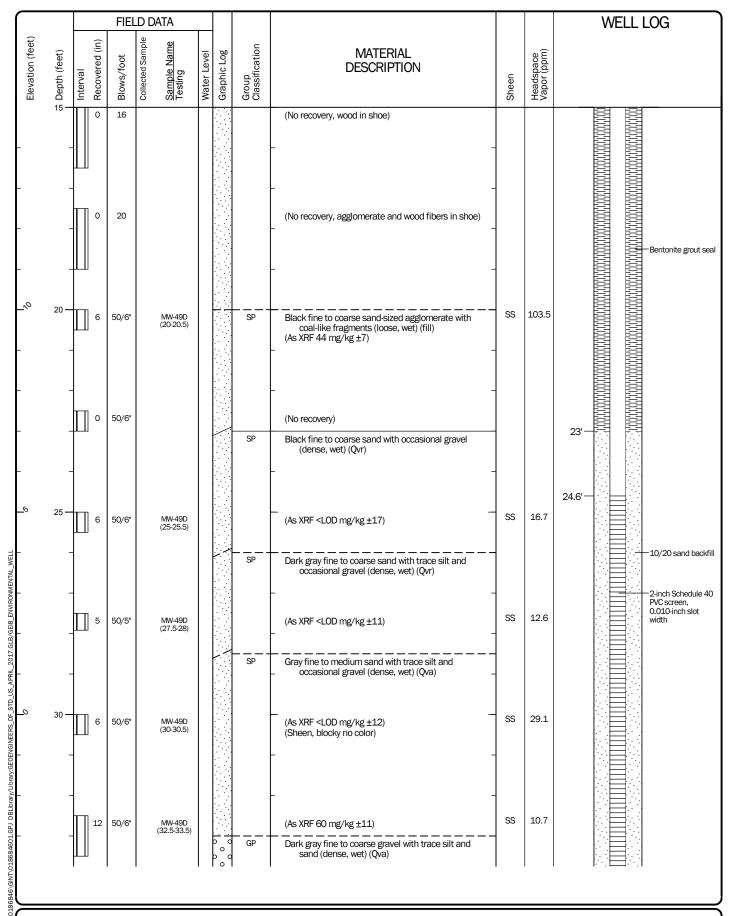


Log of Monitoring Well MW-49D



Project: GWPS-Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington



Log of Monitoring Well MW-49D (continued)



Project: GWPS-Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington

	\bigcap			FIEL	D DATA							WELL LOG
ML Dark gray silt with sand and gravel (very stiff, moist) (Qpgd) 34.6' Schedule 40 PVC		Depth (feet)		Blows/foot	Collected Sample Sample Name	lesting	Water Level	Graphic Log	Group Classification	Sheen	Headspace Vapor (ppm)	
11 11 6 1 5 0 / 6" 1 MW/49D 1 1 1 1 1 (Ac YDE 1/1 mg///g ±7)	- _5	- 35 —	П 6	50/6"	MW-4	19D		0 0	ML		8.3	

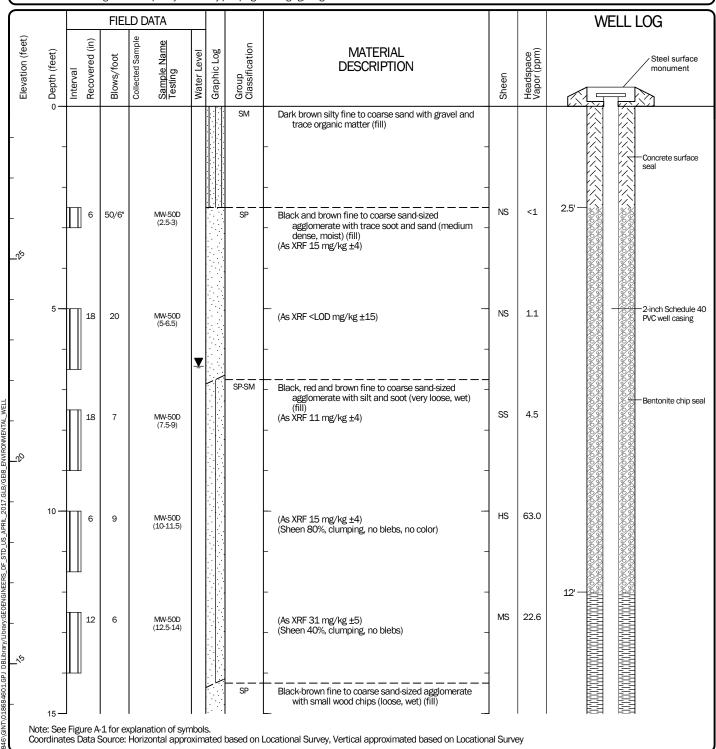
Log of Monitoring Well MW-49D (continued)



Project: GWPS-Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington

Start Drilled 4/17/2017	<u>End</u> 4/17/2017	Total Depth (ft)	35.2	Logged By Checked By	PDR SBS	Driller Cascade Drilling		Drilling 81/4-inch C	D Hollow-stem Auger		
Hammer Data	Wire Rel 140 (lbs) / 30			Drilling Equipment		CME 55	DOE Well I.D.: BKA 077 A 2 (in) well was installed on 4/17/2017 to a depth of				
Surface Elevation (ft) Vertical Datum	8.77 E (Locks)		Top of Casing Elevation (ft) 28.31			35.2 (ft). Groundwater	Depth to				
Easting (X) Northing (Y))793.29 117.04		Horizontal Datum	WA	A State Plane North NAD83 (feet)	<u>Date Measured</u> 4/24/2017	<u>Water (ft)</u> 6.4	Elevation (ft) 21.9		
Notes: Monitoring well completed with an 8-inch-diameter steel flush-mounted monument. Monitoring well developed by alternately pumping and surging; 25 gallons removed.											

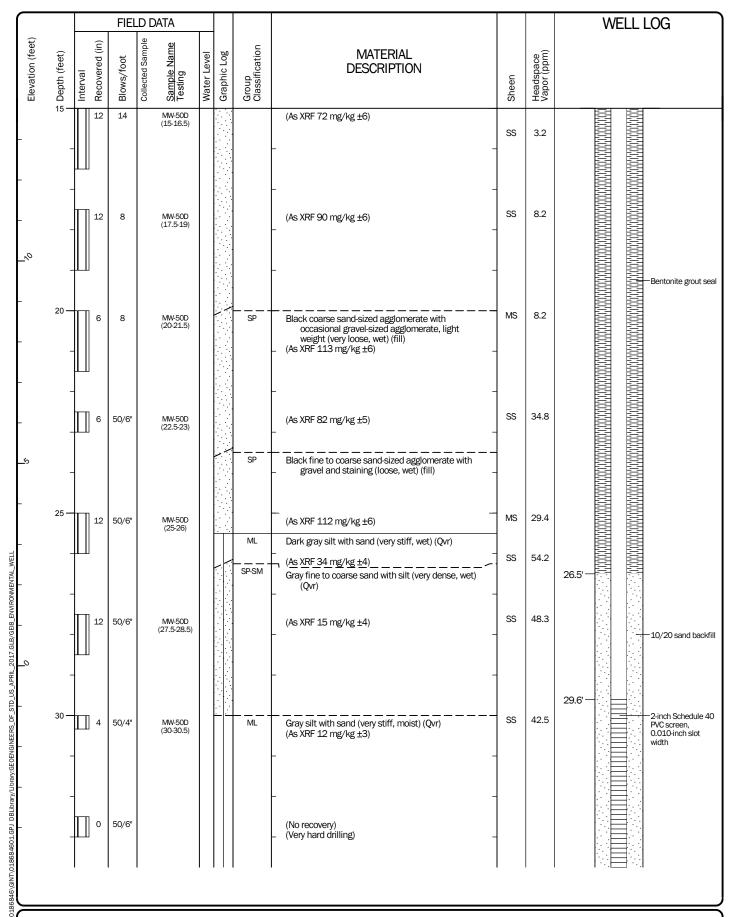


Log of Monitoring Well MW-50D



Project: GWPS-Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington

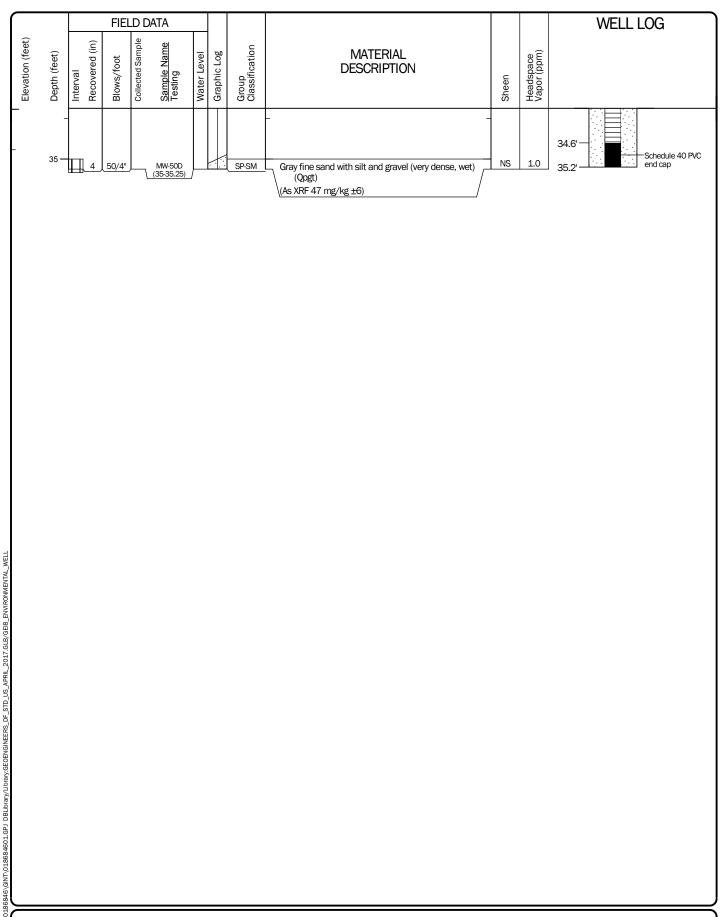


Log of Monitoring Well MW-50D (continued)



Project: GWPS-Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington



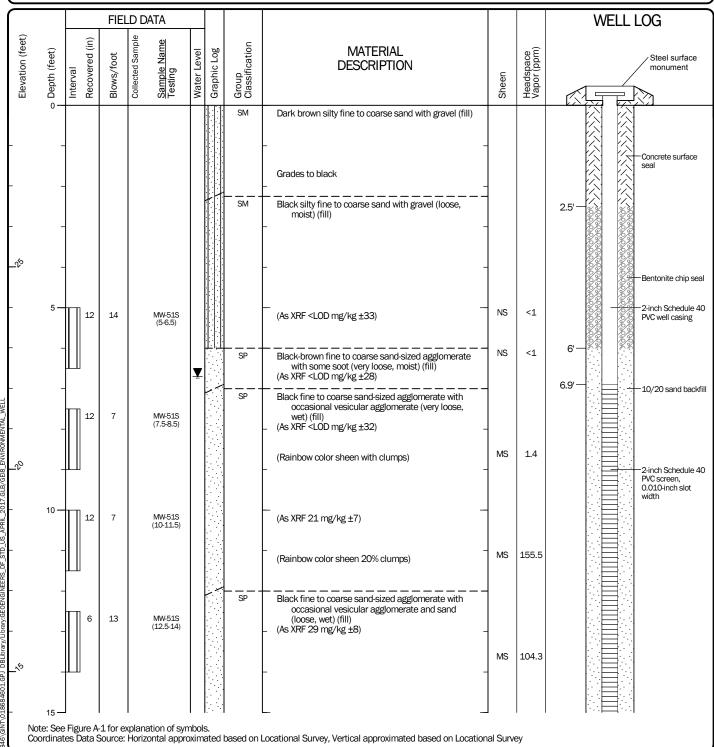




Project: GWPS-Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington

Start Drilled 4/14/2017	<u>End</u> 4/14/2017	Total Depth (ft)	17.5	Logged By Checked By	PDR SBS	Driller Cascade Drilling	Drilling Method 81/4-inch OD Hollow-stem			
Hammer Data	Wire Rel 140 (lbs) / 30			Drilling Equipment		CME 55		BKA 076 s installed on 4/14/20:	17 to a depth of	
Surface Elevation (ft) Vertical Datum	28.99 USACE (Locks)			Top of Casing Elevation (ft)		28.62	17.5 (ft). Groundwater	Depth to		
Easting (X) Northing (Y))795.79 136.65		Horizontal Datum	WA	State Plane North NAD83 (feet)	<u>Date Measured</u> 4/24/2017	<u>Water (ft)</u> 6.7	Elevation (ft) 21.9	
Monitoring well completed with an 8-inch-diameter steel flush-mounted monument. Notes: Monitoring well developed by alternately pumping and surging; 6 gallons removed.										



Log of Monitoring Well MW-51S



Project: GWPS-Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington

			FIEL	_D DATA							WELL LOG
Elevation (feet)	ក Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Testing	Water Level Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	
-	15	6	16	MW-5 (15-1)				(As XRF <lod -<="" kg="" mg="" td="" ±24)=""><td>MS</td><td>67.2</td><td>16.9' ————————————————————————————————————</td></lod>	MS	67.2	16.9' ————————————————————————————————————

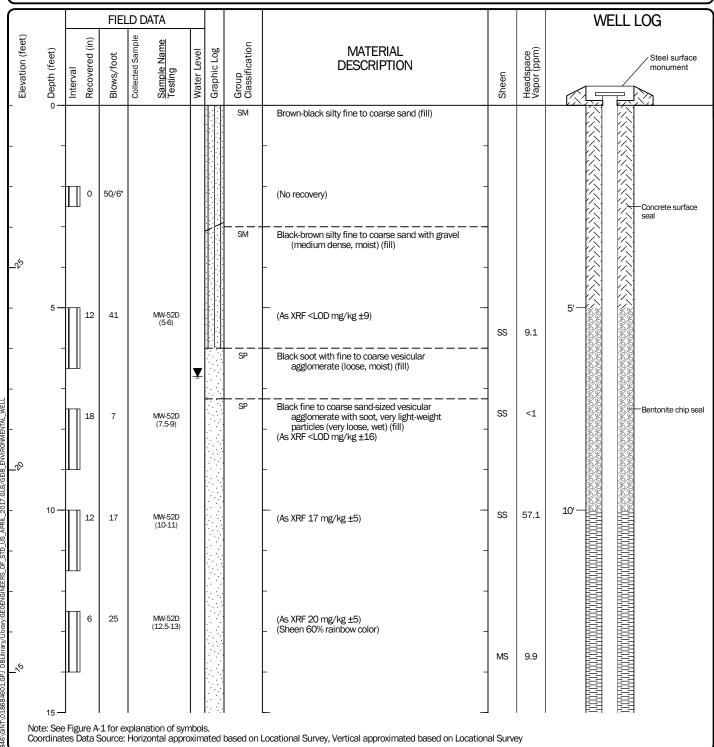
Log of Monitoring Well MW-51S (continued)



Project: GWPS-Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington

<u>Start</u> Drilled 4/14/2017	<u>End</u> 4/14/2017	Total Depth (ft)	35.5	Logged By Checked By	PDR SBS	Driller Cascade Drilling	Drilling Method 81/4-inch OD Hollow-stem Au			
Hammer Data	Wire Rel 140 (lbs) / 30			Drilling Equipment	CME 55 DOE Well I.D.: BKA 075 A 2 (in) well was installed on 4/14/2017 to a					
Surface Elevation (ft) Vertical Datum	Elevation (ft) 29.01			Top of Casing Elevation (ft)		28.56	35.4 (ft). <u>Groundwater</u>	Depth to		
Easting (X) Northing (Y))796.96 147.84		Horizontal Datum	WA	State Plane North NAD83 (feet)	<u>Date Measured</u> 4/24/2017	<u>Water (ft)</u> 6.70	Elevation (ft) 21.9	
	Notes: Monitoring well completed with an 8-inch-diameter steel flush-mounted monument. Monitoring well developed by alternately pumping and surging; 3 gallons removed.									

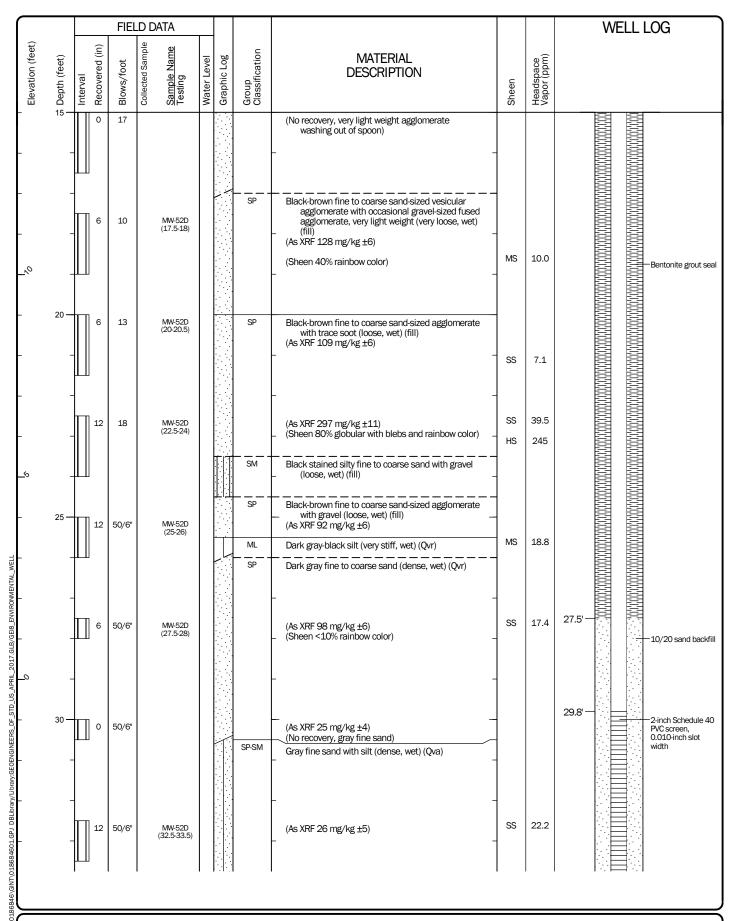


Log of Monitoring Well MW-52D



Project: GWPS-Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington



Log of Monitoring Well MW-52D (continued)



Project: GWPS-Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington

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·-		_	FIEI	_D D		1						WELL LOG
Elevation (feet)	feet)	Interval Recovered (in)	oot	Collected Sample	<u>Sample Name</u> Testing	evel	; Log	Group Classification	MATERIAL DESCRIPTION		ace opm)	
levatio	Depth (feet)	Interval Recover	Blows/foot	ollected	sample esting	Water Level	Graphic Log	aroup Jassific	DESCRIPTION	Sheen	Headspace Vapor (ppm)	
_ _%				0	- OI⊢	>	9	00	- (1	S	1>	
		ll °	50/6"						(Heave sand in sampler, rounded small cobble in shoe)			34.8'
-	35 —	6	50/6"		MW-52D (35-35.5)			SM	(As XRF 24 mg/kg ±6)	SS	10.2	35.4' Schedule 40 PVC end cap
							`		Gray silty fine to coarse sand with fine to coarse gravel (medium dense) (Qpgt)			
-												
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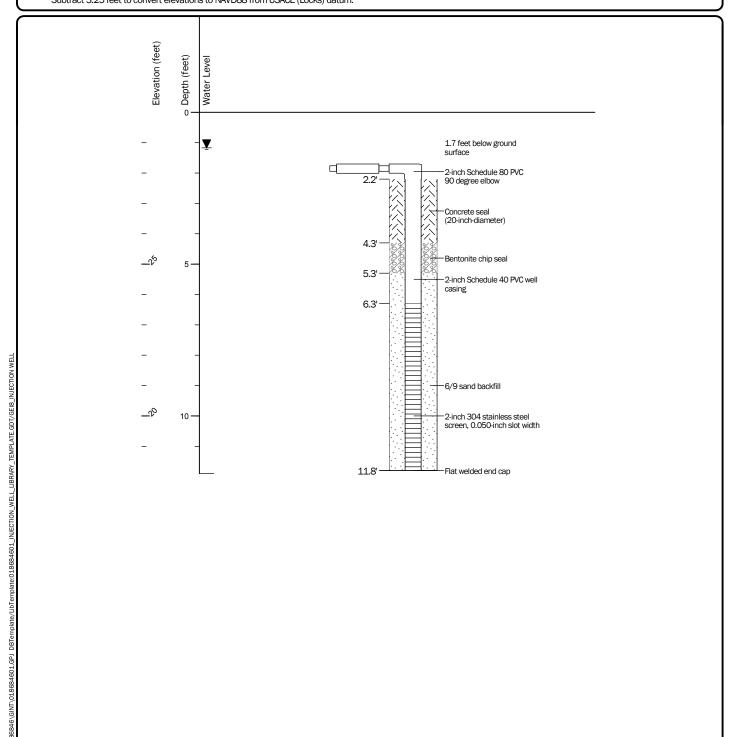
Log of Monitoring Well MW-52D (continued)



Project: GWPS-Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington

Start Drilled 3/21/2017	<u>End</u> 3/21/2017	Total Depth (ft)	11.9	Logged By Checked By	PDR SBS	Driller Cascade Drilling	Drilling 8 ¹ / ₄ -inch OD Hollow-stem Au Method w/ Star Bit			
Hammer Data	N/A	1		Drilling Equipment	Trac	ck-mounted CME 55	DOE Well I.D.: BKA 030 A 2 (in) well was installed on 3/21/2017 to a depth of			
Surface Elevation (ft) Vertical Datum		30 E (Locks)		Top of Casing Elevation (ft)		28.29	11.8 (ft). <u>Groundwater</u>	Depth to		
Easting (X) Northing (Y)		0661.05 171.14		Horizontal Datum	WA	State Plane North NAD83 (feet)	<u>Date Measured</u> 4/24/2017	<u>Water (ft)</u> 1.17	Elevation (ft) 27.12	
Notes: Well developed				16 gallons removed		nected to west vault.				





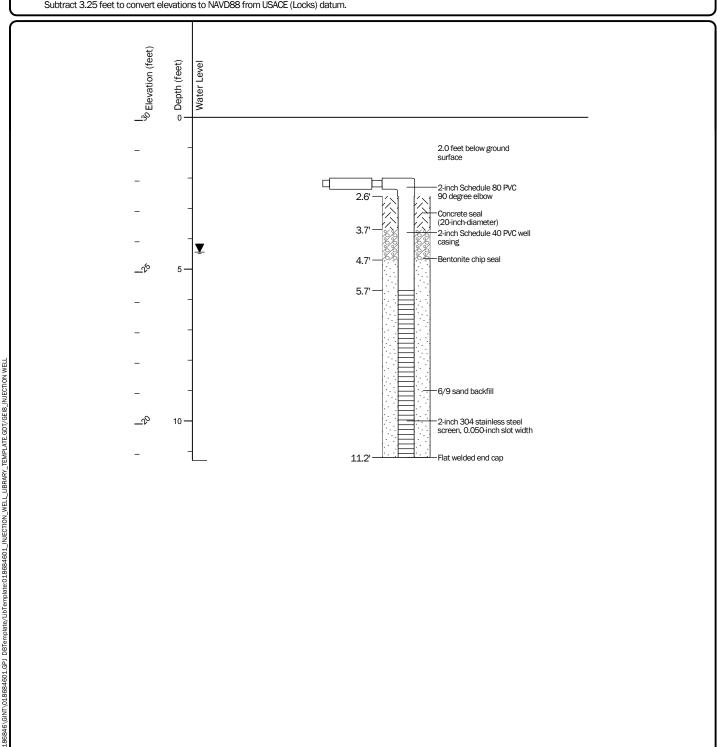


Project Location: Gas Works Park, Seattle, Washington

Project Number: 0186-846-01

Start Drilled 3/22/2017	<u>End</u> 3/22/2017	Total Depth (ft)	11.3	Logged By Checked By	PDR SBS	Driller Cascade Drilling	Drilling 8½-inch OD Hollow-stem A Method w/ Star Bit			
Hammer Data	N/A	1		Drilling Equipment	Trac	ck-mounted CME 55	DOE Well I.D.: BKA 031 A 2 (in) well was installed on 3/22/2017 to a depth of			
Surface Elevation (ft) Vertical Datum		30.1 E (Locks)		Top of Casing Elevation (ft)		28.17	11.2 (ft). Groundwater Depth to			
Easting (X) Northing (Y))651.15 154.91		Horizontal Datum	WA	State Plane North NAD83 (feet)	Date Measured Water (ft) Elevation 4/24/2017 4.44 23.73			
Notos: Well developed	hy alternately	numning and	curding	10 dallone removed	l Wall con	nected to west valilt. Concrete a	ancountered from	5 to 6 feet		

Notes: Well developed by alternately pumping and surging, 49 gallons removed. Well connected to west vault. Concrete encountered from 5 to 6 feet. Subtract 3.25 feet to convert elevations to NAVD88 from USACE (Locks) datum.



Log of Well A2 (fill)

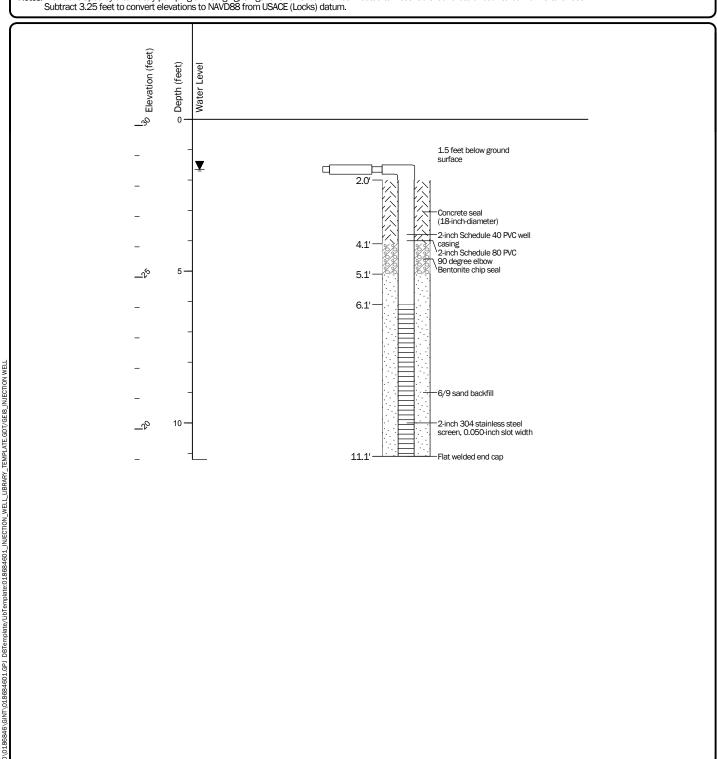


Project: GWPS - Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington

Start Drilled 3/22/2017	<u>End</u> 3/22/2017	Total Depth (ft)	11.2	Logged By Checked By	PDR SBS	Driller Cascade Drilling	Drilling 8½-inch OD Hollow-stem Ar Method w/ Star Bit			
Hammer Data	N/A	Ţ		Drilling Equipment	Trac	ck-mounted CME 55	DOE Well I.D.: BKA 032 A 2 (in) well was installed on 3/22/2017 to a depth of			
Surface Elevation (ft) Vertical Datum		30.2 E (Locks)		Top of Casing Elevation (ft)		28.75	11.1 (ft). Groundwater Depth to			
Easting (X) Northing (Y))648.11 134.46		Horizontal Datum	WA	State Plane North NAD83 (feet)	Date Measured Water (ft) F			
3()					I \A/all aa.a.	acatad to west yoult. Caparata a				

Notes: Well developed by alternately pumping and surging, 84 gallons removed. Well connected to west vault. Concrete encountered from 5 to 6 feet. Subtract 3.25 feet to convert elevations to NAVD88 from USACE (Locks) datum.



Log of Well A3 (fill)



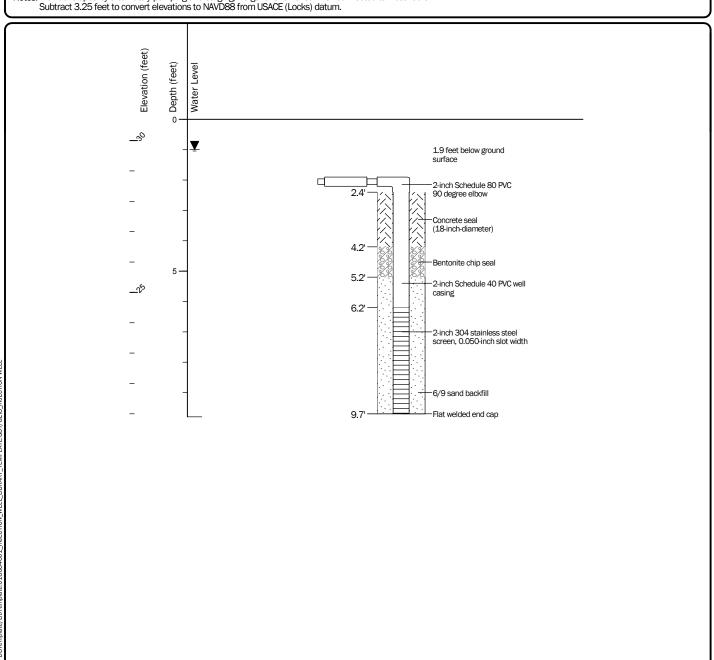
Project: GWPS - Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington

Project Number: 0186-846-01

Figure E-19 Sheet 1 of 1

Start Drilled 3/27/2017	<u>End</u> 3/27/2017	Total Depth (ft)	9.8	Logged By Checked By	PDR SBS	Driller Cascade Drilling	Drilling 8 ¹ / ₄ -inch OD Hollow-stem An Method w/ Star Bit											
Hammer Data	N/A	1		Drilling Equipment	Trac	k-mounted CME 55	DOE Well I.D.: BKA 041 A 2 (in) well was installed on 3/27/2017 to a depth o											
Surface Elevation (ft) Vertical Datum		30.7 E (Locks)		Top of Casing Elevation (ft)		28.83	Groundwater	Depth to										
Easting (X) Northing (Y))637.76 115.96		Horizontal Datum	WA	State Plane North NAD83 (feet)	<u>Date Measured</u> 4/24/2017	<u>Water (ft)</u> 0.99	Elevation (ft) 27.84									
						nected to west vault.		Notes: Well developed by alternately pumping and surging, 26 gallons removed. Well connected to west vault. Subtract 3.25 feet to convert elevations to NAVD88 from USACE (Locks) datum										



Log of Well A4 (fill)



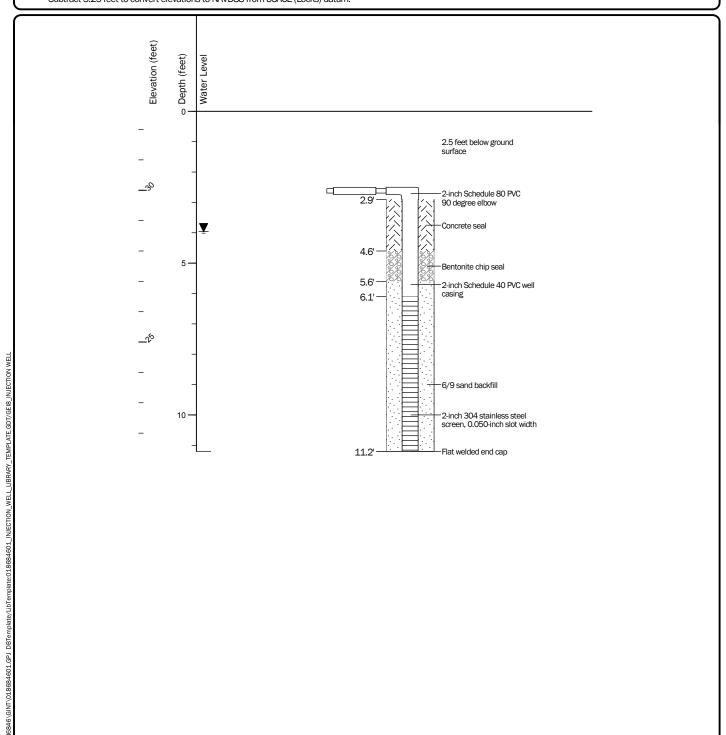
Project: GWPS - Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington

Project Number: 0186-846-01

Figure E-20

Start Drilled 4/10/2017	<u>End</u> 4/10/2017	Total Depth (ft)	11.2	Logged By Checked By	PDR SBS	Driller Cascade Drilling		Drilling 8½-inch OD Hollow Method w/ Star Bit			
Hammer Data	N/A	4		Drilling Equipment	Trac	k-mounted CME 55		BKA 066 s installed on 4/10/203	17 to a depth of		
Surface Elevation (ft) Vertical Datum		32.6 CE (Locks)		Top of Casing Elevation (ft)		30.11	11.1 (ft). Groundwater	Depth to			
Easting (X) Northing (Y)		0634.15 0088.96		Horizontal Datum	WA	State Plane North NAD83 (feet)	<u>Date Measured</u> 4/24/2017	<u>Water (ft)</u> 3.96	Elevation (ft) 26.15		
Notes: Well developed				20 gallons removed		nected to west vault.	<u>'</u>				



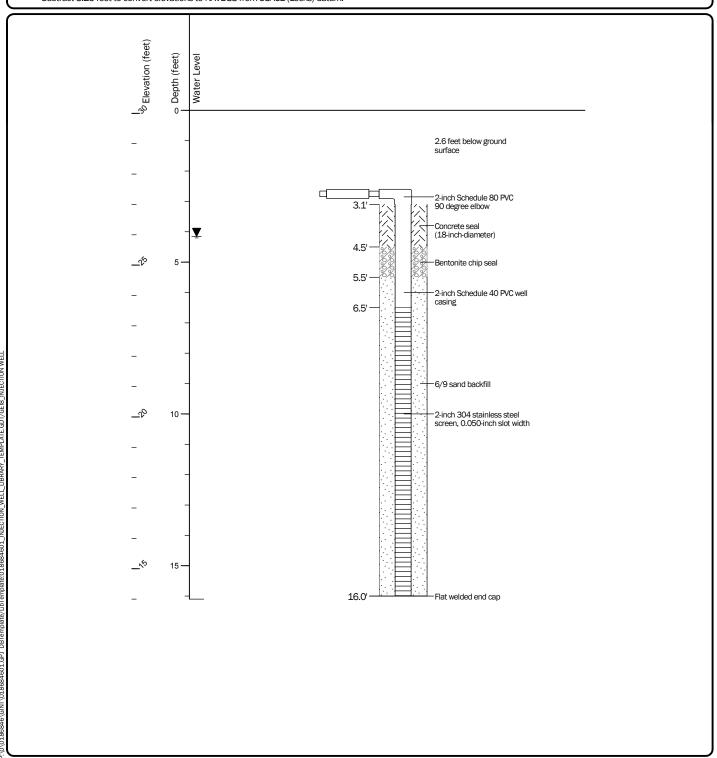




Project Location: Gas Works Park, Seattle, Washington

Project Number: 0186-846-01

Start Drilled 3/23/2017	<u>End</u> 3/23/2017	Total Depth (ft)	16.1	Logged By Checked By	PDR SBS	Driller Cascade Drilling	Drilling 8½-inch OD Hollow-stem Al Method w/ Star Bit				
Hammer Data	N/A	\		Drilling Equipment	Trac	ck-mounted CME 55	DOE Well I.D.: BKA 033 A 2 (in) well was installed on 3/23/2017 to a depth of				
Surface Elevation (ft) Vertical Datum		30.1 E (Locks)		Top of Casing Elevation (ft)		27.44	(ft). Groundwater Depth to				
Easting (X) Northing (Y))686.12 170.51		Horizontal Datum	WA	State Plane North NAD83 (feet)	<u>Date Measured</u> 4/24/2017	<u>Water (ft)</u> 4.15	Elevation (ft) 23.29		
	Notes: Well developed by alternately pumping and surging, 31 gallons removed. Well connected to west vault. Subtract 3.25 feet to convert elevations to NAVD88 from USACE (Locks) datum.										



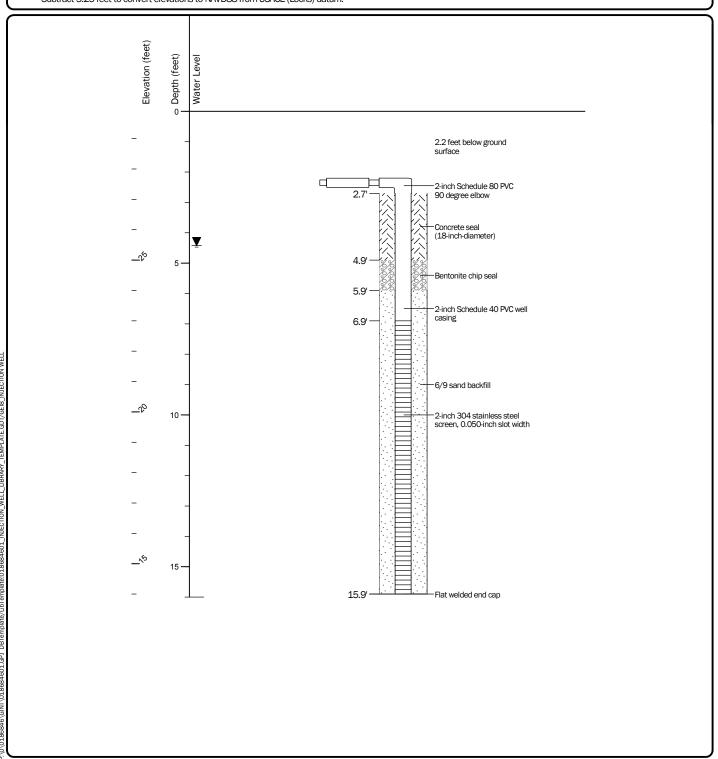




Project Location: Gas Works Park, Seattle, Washington

Start Drilled 3/23/2017	<u>End</u> 3/23/2017	Total Depth (ft)	16.0	Logged By Checked By	PDR SBS	Driller Cascade Drilling	Drilling 8½-inch OD Hollow-stem A Method w/ Star Bit			
Hammer Data	N/A	Ţ		Drilling Equipment	Trac	k-mounted CME 55	DOE Well I.D.: BKA 034 A 2 (in) well was installed on 3/23/2017 to a depth o			
Surface Elevation (ft) Vertical Datum	_	29.9 E (Locks)		Top of Casing Elevation (ft)		27.65	15.9 (ft). Groundwater Depth to			
Easting (X) Northing (Y))679.68)156.7		Horizontal Datum	WA	State Plane North NAD83 (feet)	<u>Date Measured</u> 4/24/2017	<u>Water (ft)</u> 4.42	Elevation (ft) 23.23	
Nister Mall developes					I Mall som	postod to west voult Concrete on		10+- 11 f+		

Notes: Well developed by alternately pumping and surging, 59 gallons removed. Well connected to west vault. Concrete encountered from 10 to 11 feet. Subtract 3.25 feet to convert elevations to NAVD88 from USACE (Locks) datum.



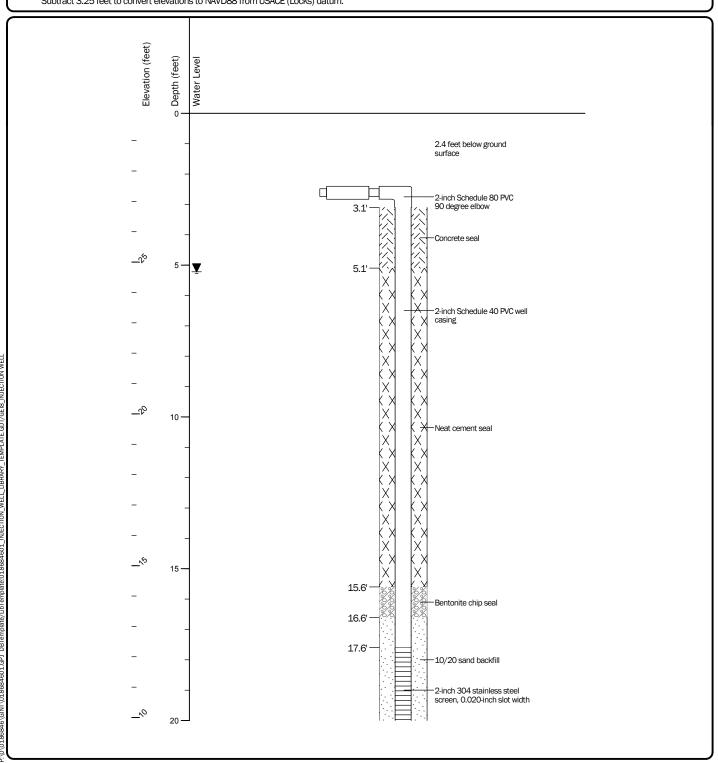
Log of Well B2 (fill)



Project Location: Gas Works Park, Seattle, Washington

Start Drilled 3/23/2017	<u>End</u> 3/23/2017	Total Depth (ft)	25.1	Logged By Checked By	PDR SBS	Driller Cascade Drilling	Drilling 8½-inch OD Hollow-stem At Method w/ Star Bit			
Hammer Data	N/A			Drilling Equipment	Trac	ck-mounted CME 55	DOE Well I.D.: BKA 035 A 2 (in) well was installed on 3/23/2017 to a depth of			
Surface Elevation (ft) Vertical Datum	_	29.9 E (Locks)		Top of Casing Elevation (ft)		27.43	25.1 (ft). Groundwater Depth to			
Easting (X) Northing (Y))679.61 148.72		Horizontal Datum	WA	State Plane North NAD83 (feet)	Date Measured Water (ft) Elevation 4/24/2017 5.22 22.2			
Notas: Well developed	hv alternately	numning and	surging 1	R7 gallons removed	Well con	nected to west vault. Concrete e	ncountered from	91/s to 11 feet		

Notes: Well developed by alternately pumping and surging, 37 gallons removed. Well connected to west vault. Concrete encountered from 9½ to 11 feet. Subtract 3.25 feet to convert elevations to NAVD88 from USACE (Locks) datum.



Log of Well B3 (outwash)

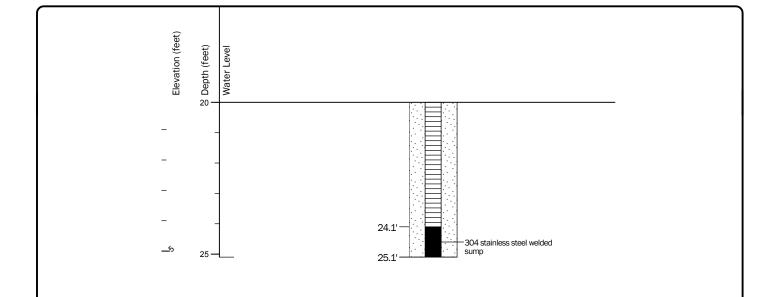


Project: GWPS - Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington

Project Number: 0186-846-01

Figure E-24 Sheet 1 of 2



Log of Well B3 (outwash) (continued)



Project: GWPS - Play Area Groundwater Infrastructure Installation

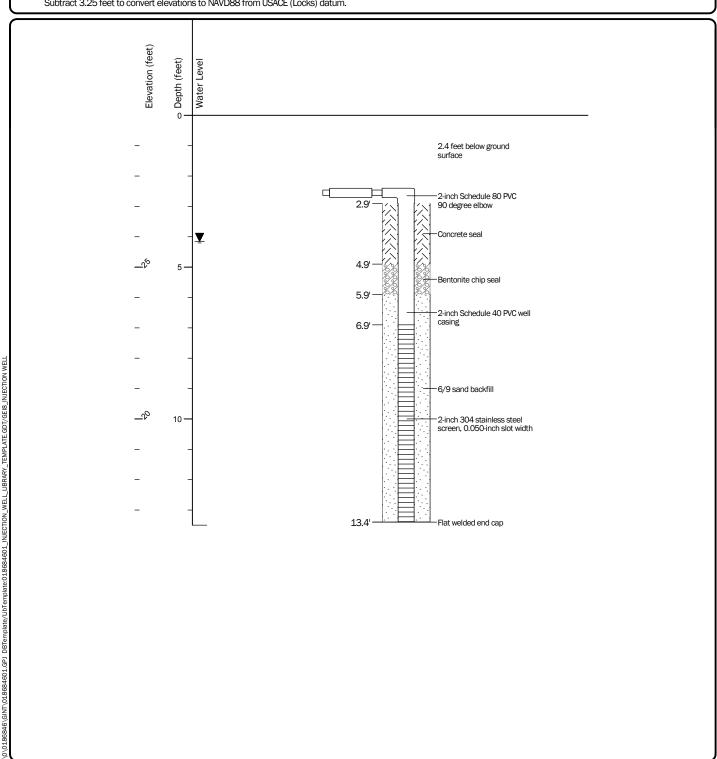
Project Location: Gas Works Park, Seattle, Washington

Project Number: 0186-846-01

Figure E-25 Sheet 2 of 2

Start Drilled 3/24/2017	<u>End</u> 3/24/2017	Total Depth (ft)	13.5	Logged By Checked By	PDR SBS	Driller Cascade Drilling		Drilling 81/4-inch OD Hollow-stem Al Method w/ Star Bit		
Hammer Data	N/A	1		Drilling Equipment	Track-mounted CME 55 DOE Well I.D.: BKA 036 A 2 (in) well was installed on 3/24/2017 to a depth				2017 to a depth of	
Surface Elevation (ft) Vertical Datum		30 E (Locks)		Top of Casing Elevation (ft)		13.4 (ft). 27.63 Groundwater Depth to				
Easting (X) Northing (Y))678.98 136.33		Horizontal Datum	WA	State Plane North NAD83 (feet)	<u>Date Measured</u> 4/24/2017	<u>Water (ft)</u> 4.15	Elevation (ft) 23.48	
Notes: Wall dayalana	l by altornatoly	numning and	curding '	2/1 dallone romovod	Woll con	nected to west valilt. Concrete a	ncountared from	Q to 12 foot		

Notes: Well developed by alternately pumping and surging, 34 gallons removed. Well connected to west vault. Concrete encountered from 8 to 12 feet. Subtract 3.25 feet to convert elevations to NAVD88 from USACE (Locks) datum.



Log of Well B4 (fill)

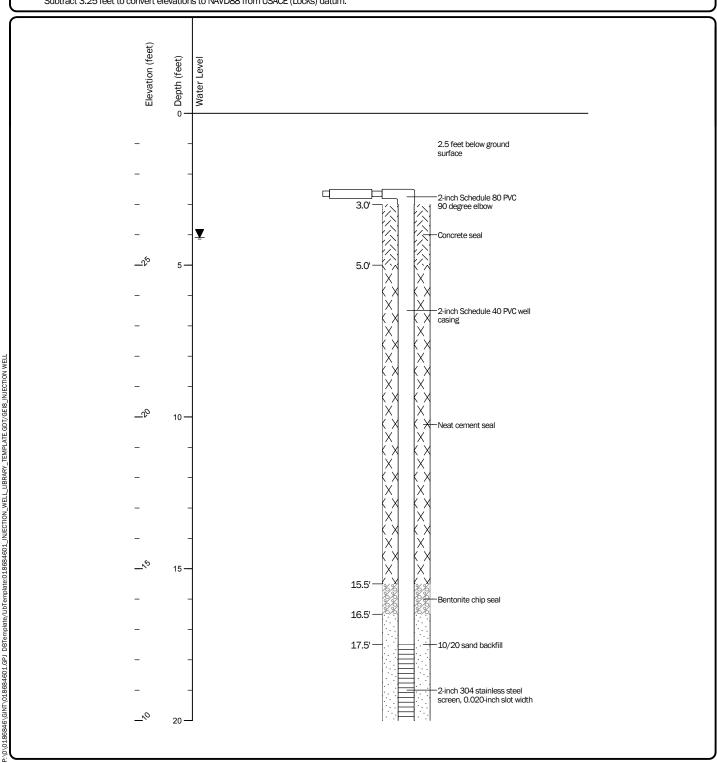


Project: GWPS - Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington

Start Drilled 3/23/2017	<u>End</u> 3/23/2017	Total Depth (ft)	25.5	Logged By Checked By	PDR SBS	Driller Cascade Drilling	Drilling 81/4-inch OD Hollow-stem Au Method w/ Star Bit		
Hammer Data	N/A	1		Drilling Equipment	Trac	ck-mounted CME 55	DOE Well I.D.: BKA 037 A 2 (in) well was installed on 3/23/2017 to a depth		
Surface Elevation (ft) Vertical Datum		30 E (Locks)		Top of Casing Elevation (ft)		27.56	25.5 (ft). Groundwater Depth to		
Easting (X) Northing (Y))677.21 131.24		Horizontal Datum	WA	State Plane North NAD83 (feet)	<u>Date Measured</u> 4/24/2017	<u>Water (ft)</u> 4.09	Elevation (ft) 23.47
Notas: Well developed	hv alternately	numning and	surging '	29 gallons removed	Well con	nected to west vault. Concrete e	ncountered from	9 to 12 feet	

Notes: Well developed by alternately pumping and surging, 29 gallons removed. Well connected to west vault. Concrete encountered from 9 to 12 feet. Subtract 3.25 feet to convert elevations to NAVD88 from USACE (Locks) datum.



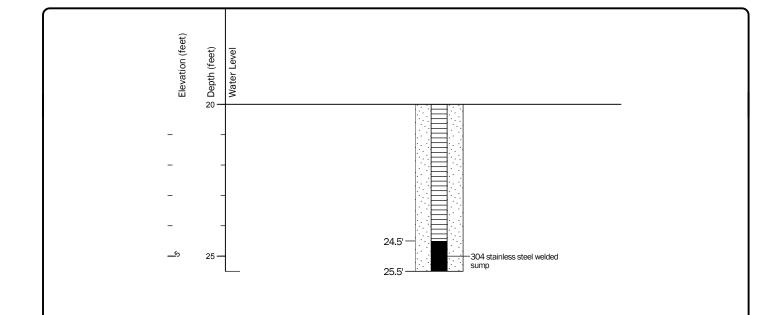
Log of Well B5 (outwash)



Project: GWPS - Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington

Project Number: 0186-846-01



Log of Well B5 (outwash) (continued)



Project: GWPS - Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington

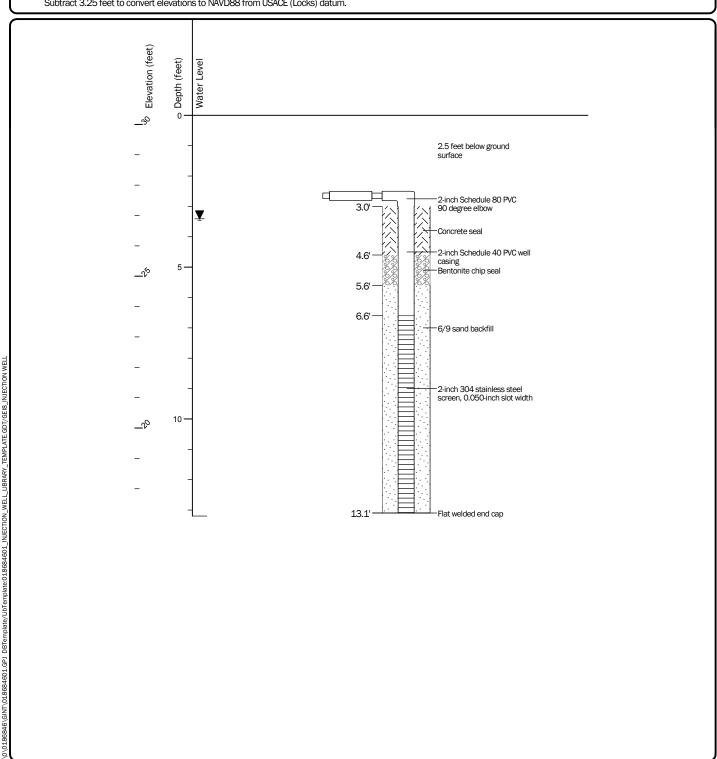
Project Number: 0186-846-01

Figure E-27

Sheet 2 of 2

Start Drilled 3/24/2017	<u>End</u> 3/24/2017	Total Depth (ft)	13.2	Logged By Checked By	PDR SBS	Driller Cascade Drilling		Drilling 8½-inch OD Hollow-stem Au Method w/ Star Bit		
Hammer Data	N/A	1		Drilling Equipment	Track-mounted CME 55 DOE Well I.D.: BKA 038 A 2 (in) well was installed on 3/24/2017 to a depth				2017 to a depth of	
Surface Elevation (ft) Vertical Datum		30.3 E (Locks)		Top of Casing Elevation (ft)	27.75 13.1 (ft). <u>Groundwater</u> Depth to					
Easting (X) Northing (Y))674.15 116.94		Horizontal Datum	WA State Plane North NAD83 (feet)		<u>Date Measured</u> 4/24/2017	<u>Water (ft)</u> 3.41	Elevation (ft) 24.34	
Notos: Well developed	hy alternately	numning and	curding (S/I dallone removed	Mall con	nected to west valilt. Concrete a	ancountered from	0 to 12 foot		

Notes: Well developed by alternately pumping and surging, 64 gallons removed. Well connected to west vault. Concrete encountered from 9 to 12 feet. Subtract 3.25 feet to convert elevations to NAVD88 from USACE (Locks) datum.



Log of Well B6 (fill)



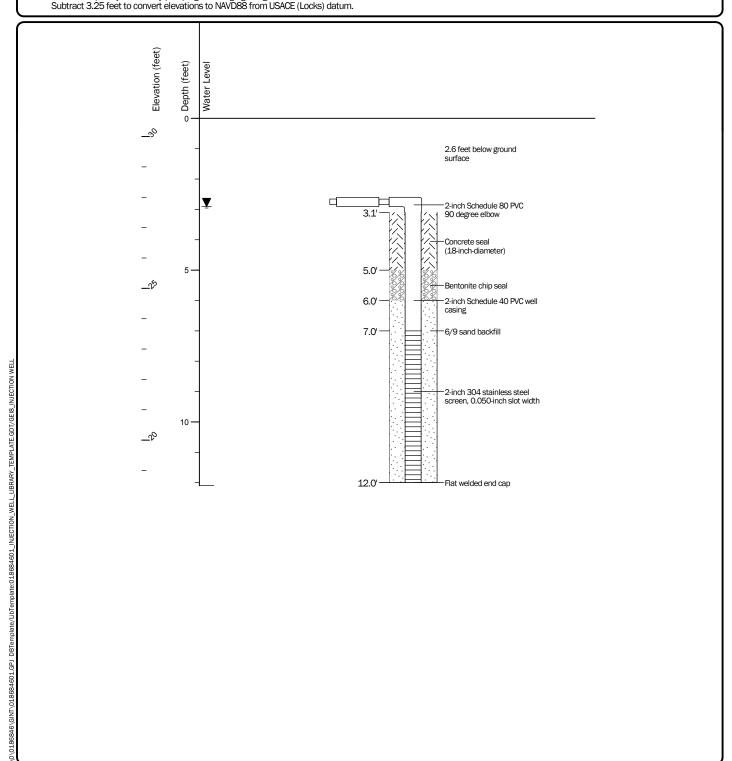
Project: GWPS - Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington

Project Number: 0186-846-01

Figure E-28

Drilled 3/27/2017 3/27/201	7 Depth (ft) 12.1	Checked By	SBS	Driller Cascade Drilling	Drilling 8½-inch OD Hollow-stem A Method w/ Star Bit		
Hammer Data	V/A	Drilling Equipment	Trac	ck-mounted CME 55	DOE Well I.D.: BKA 039 A 2 (in) well was installed on 3/27/2017 to a depth of		
Surface Elevation (ft) Vertical Datum	30.6 SACE (Locks)	Top of Casing Elevation (ft)		27.94	Groundwater	Depth to	
	270658.44 239103.6	Horizontal Datum	WA	State Plane North NAD83 (feet)	<u>Date Measured</u> 4/24/2017	<u>Water (ft)</u> 2.90	Elevation (ft) 25.04





Log of Well B7 (fill)

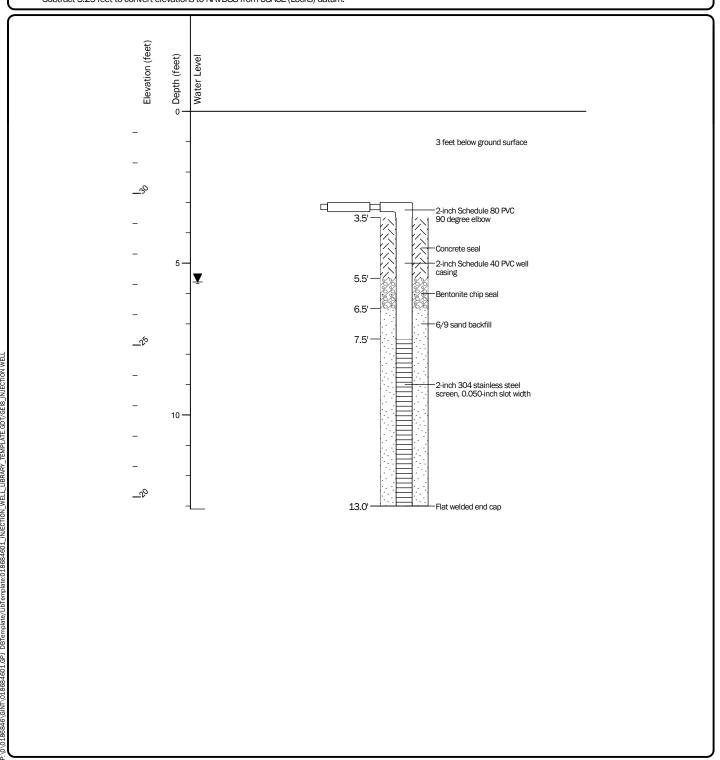
Project: GWPS - Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington

Project Number: 0186-846-01

Figure E-29

Start Drilled 4/10/2017	<u>End</u> 4/10/2017	Total Depth (ft)	13.1	Logged By Checked By	PDR SBS	Driller Cascade Drilling	Drilling 8½-inch OD Hollow-stem A Method w/ Star Bit				
Hammer Data	N/A	1		Drilling Equipment	Track-mounted CME 55 DOE Well I.D.: BKA 067 A 2 (in) well was installed (in)				.7 to a depth of 13		
Surface Elevation (ft) Vertical Datum	_	32.7 E (Locks)		Top of Casing Elevation (ft)		29.69	Groundwater	Depth to			
Easting (X) Northing (Y)		0661.88 085.68		Horizontal Datum	WA	State Plane North NAD83 (feet)	<u>Date Measured</u> 4/24/2017	<u>Water (ft)</u> 5.62	Elevation (ft) 24.07		
	Notes: Well developed by alternately pumping and surging, 13 gallons removed. Well connected to west vault. Subtract 3.25 feet to convert elevations to NAVD88 from LSACE (Locks) datum										

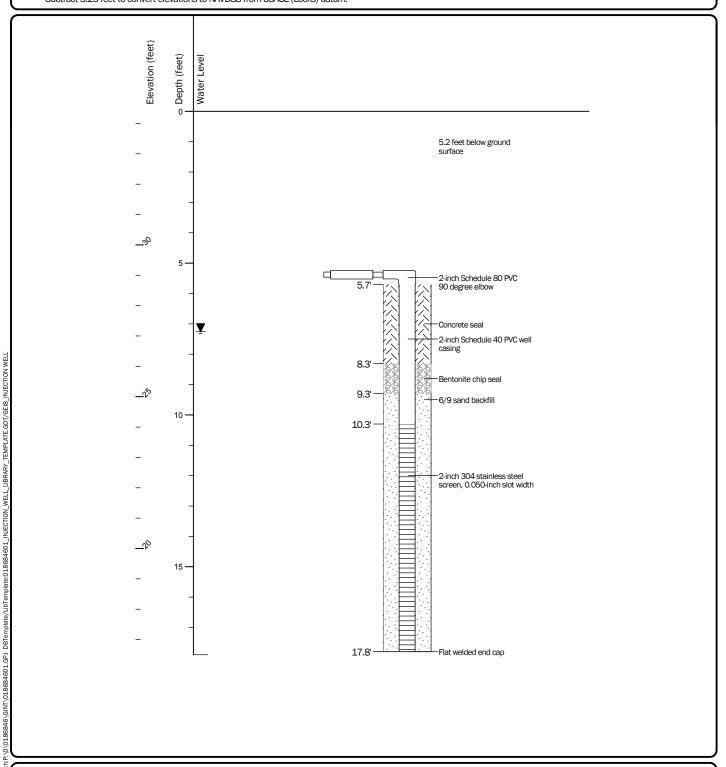






Project Location: Gas Works Park, Seattle, Washington

<u>Start</u> Drilled 4/3/2017	<u>End</u> 4/3/2017	Total Depth (ft)	17.9	Logged By Checked By	PDR SBS	Driller Cascade Drilling	Drilling 8½-inch OD Hollow-stem A Method w/ Star Bit			
Hammer Data	N/A	1		Drilling Equipment	Track-mounted CME 55 DOE Well I.D.: BKA 053 A 2 (in) well was installed on 4/3/2017 to				7 to a depth of 17.8	
Surface Elevation (ft) Vertical Datum		34.4 E (Locks)		Top of Casing Elevation (ft)	29.12		Groundwater	Depth to		
Easting (X) Northing (Y)	1270717.4 Horizontal WA State Plane North 239171.07 Datum NAD83 (feet)						<u>Date Measured</u> 4/24/2017	<u>Water (ft)</u> 7.26	Elevation (ft) 21.86	
Notes: Well developed by alternately pumping and surging, 13 gallons removed. Well connected to east vault. Subtract 3.25 feet to convert elevations to NAVD88 from USACF (Locks) datum										



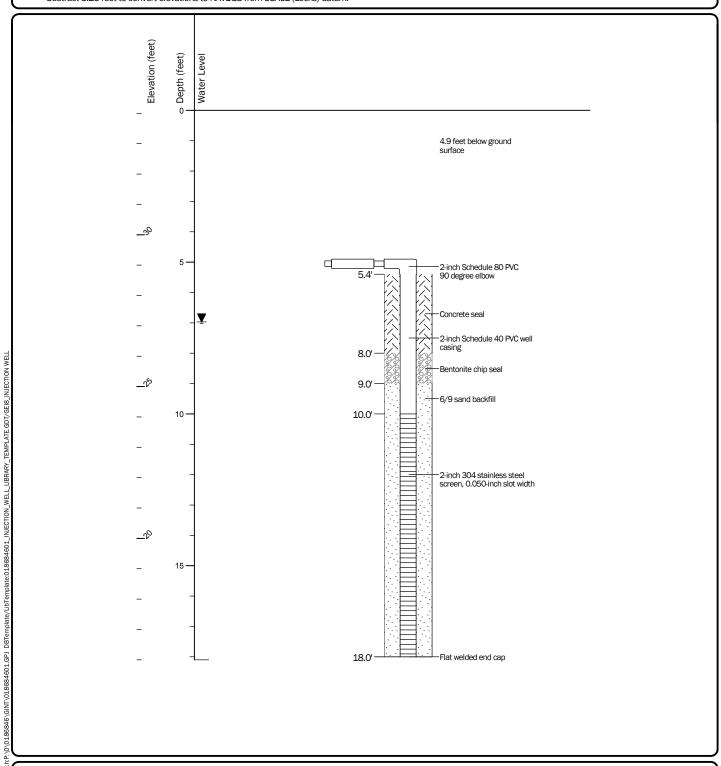
Log of Well C1 (fill)



Project Location: Gas Works Park, Seattle, Washington

Project Number: 0186-846-01

Start Drilled 4/3/2017	<u>End</u> 4/3/2017	Total Depth (ft)	18.1	Logged By Checked By	CVD SBS	Driller Cascade Drilling	Drilling 8½-inch OD Hollow-stem. Method w/ Star Bit				
Hammer Data	N/A	\		Drilling Equipment	Track-mounted CME 55 DOE Well I.D.: BKA 052 A 2 (in) well was installed on 4/3/2017 to a c						
Surface Elevation (ft) Vertical Datum		34.1 E (Locks)		Top of Casing Elevation (ft)		29.17	Groundwater	Depth to			
Easting (X) Northing (Y))711.53 163.52		Horizontal Datum	WA	State Plane North NAD83 (feet)	<u>Date Measured</u> 4/24/2017	<u>Water (ft)</u> 6.97	Elevation (ft) 22.20		
	Notes: Well developed by alternately pumping and surging, 40 gallons removed. Well connected to east vault. Subtract 3.25 feet to convert elevations to NAVD88 from USACE (Locks) datum.										





Log of Well C2 (fill)

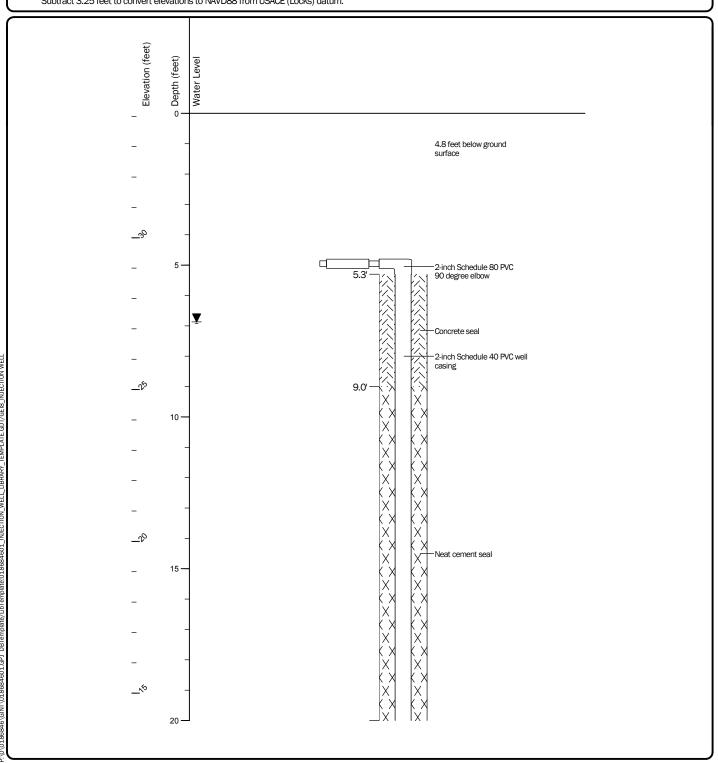
Project: GWPS - Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington

Project Number: 0186-846-01

Start Drilled 4/3/2017	<u>End</u> 4/3/2017	Total Depth (ft)	31.0	Logged By Checked By	CVD SBS	Driller Cascade Drilling	Drilling 81/4-inch OD Hollow-stem Au Method w/ Star Bit					
Hammer Data	N/A			Drilling Equipment	Trac	ck-mounted CME 55	DOE Well I.D.: BKA 054 A 2 (in) well was installed on 4/3/2017 to a depth of 3					
Surface Elevation (ft) Vertical Datum		34.1 E (Locks)		Top of Casing Elevation (ft)		(ft). 29.28 <u>Groundwater</u> Depth to						
Easting (X) Northing (Y)		710.85 153.65		Horizontal Datum	WA	State Plane North NAD83 (feet)	<u>Date Measured</u> 4/24/2017	<u>Water (ft)</u> 6.87	Elevation (ft) 22.41			
Notes: Well developed	hy alternately	numning and	surging '	Notes: Well developed by alternately numping and surging 24 gallons removed. Well connected to east vault. Concrete encountered from 15 to 17 feet								

Notes: Well developed by alternately pumping and surging, 24 gallons removed. Well connected to east vault. Concrete encountered from 15 to 17 feet Subtract 3.25 feet to convert elevations to NAVD88 from USACE (Locks) datum.



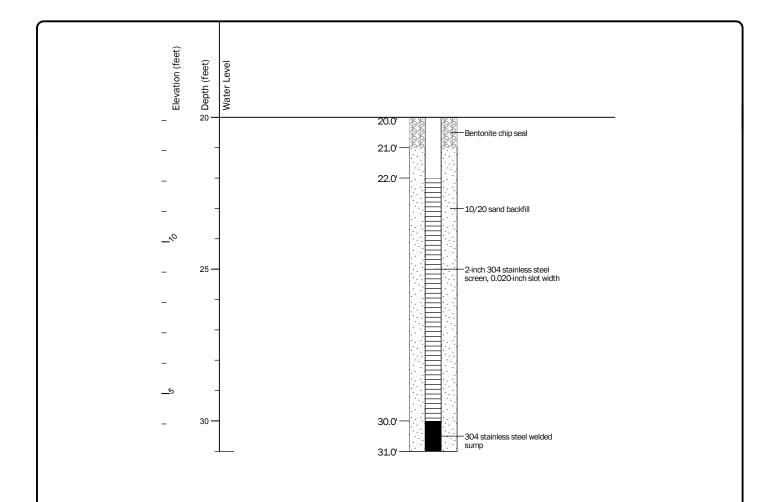
Log of Well C3 (outwash)



Project: GWPS - Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington

Project Number: 0186-846-01



Log of Well C3 (outwash) (continued)



Project: GWPS - Play Area Groundwater Infrastructure Installation

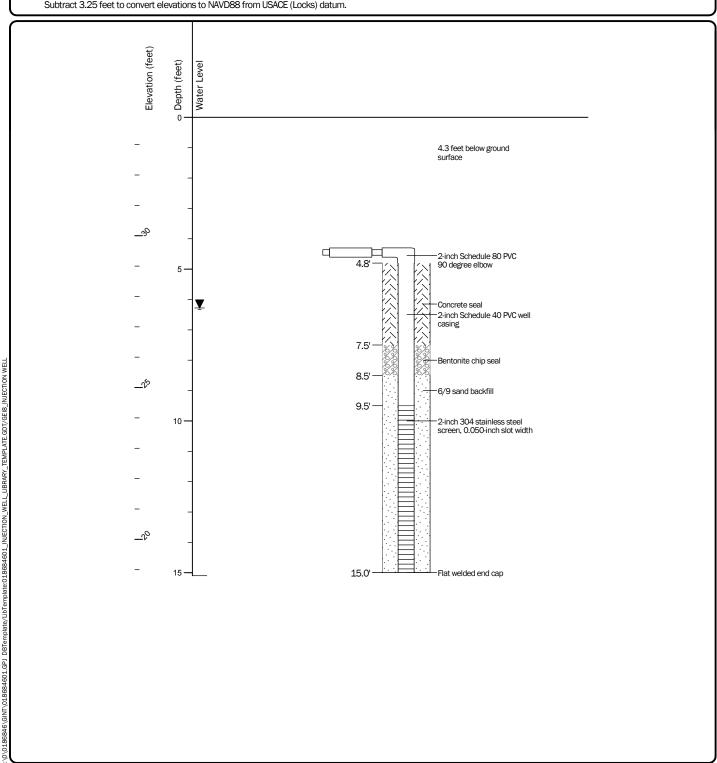
Project Location: Gas Works Park, Seattle, Washington

Project Number: 0186-846-01

Figure E-33 Sheet 2 of 2

Start Drilled 4/4/2017	<u>End</u> 4/4/2017	Total Depth (ft)	15.1	Logged By Checked By	CVD SBS	Driller Cascade Drilling	Drilling 8½-inch OD Hollow-stem Au Method w/ Star Bit			
Hammer Data	N/A	Ţ		Drilling Equipment	Trac	ck-mounted CME 55	DOE Well I.D.: BKA 055 A 2 (in) well was installed on 4/4/2017 to a depth of 1.			
Surface Elevation (ft) Vertical Datum		33.9 E (Locks)		Top of Casing Elevation (ft)		29.62	(ft). <u>Groundwater</u> Depth to			
Easting (X) Northing (Y))710.36 143.04		Horizontal Datum	WA State Plane North NAD83 (feet)		<u>Date Measured</u> 4/24/2017	<u>Water (ft)</u> 6.28	Elevation (ft) 23.34	
Notes: Well developed	hy alternately	numning and	surging '	21 gallons removed	Well con	nected to east vault. Concrete er	occuntered at 15	feet		

Subtract 3.25 feet to convert elevations to NAVD88 from USACE (Locks) datum.



Log of Well C4 (fill)



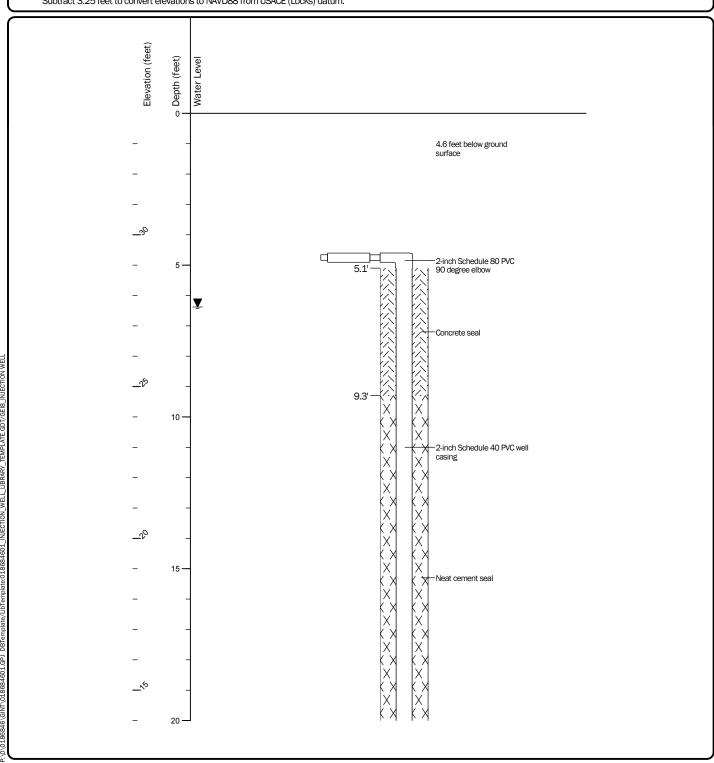
Project Location: Gas Works Park, Seattle, Washington

Project Number: 0186-846-01

Figure E-34

Start Drilled 4/5/2017	<u>End</u> 4/5/2017	Total Depth (ft)	31.3	Logged By Checked By	CVD SBS	Driller Cascade Drilling		Drilling 8½-inch OD Hollow-stem Au Method w/ Star Bit		
Hammer Data	N/A	Ţ		Drilling Equipment	Trac	ck-mounted CME 55	DOE Well I.D.: BKA 058 A 2 (in) well was installed on 4/5/2017 to a depth of 3			
Surface Elevation (ft) Vertical Datum		34 E (Locks)		Top of Casing Elevation (ft)	(ft). 29.39 Groundwater Depth to					
Easting (X) Northing (Y))708.63 135.08		Horizontal Datum	WA State Plane North NAD83 (feet)		<u>Date Measured</u> 4/24/2017	<u>Water (ft)</u> 6.38	Elevation (ft) 23.01	
Notes: Well developed by alternately numping and surging 28 gallons removed. Well connected to east v							ncountered from 1	11 to 17 feet		

Notes: Well developed by alternately pumping and surging, 28 gallons removed. Well connected to east vault. Concrete encountered from 11 to 17 feet Subtract 3.25 feet to convert elevations to NAVD88 from USACE (Locks) datum.



Log of Well C5 (outwash)

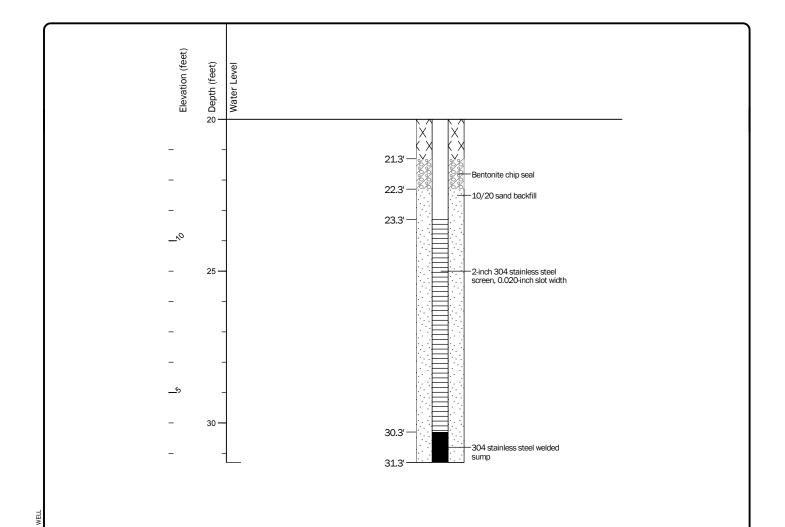


Project: GWPS - Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington

Project Number: 0186-846-01

Figure E-35



Log of Well C5 (outwash) (continued)



Project: GWPS - Play Area Groundwater Infrastructure Installation

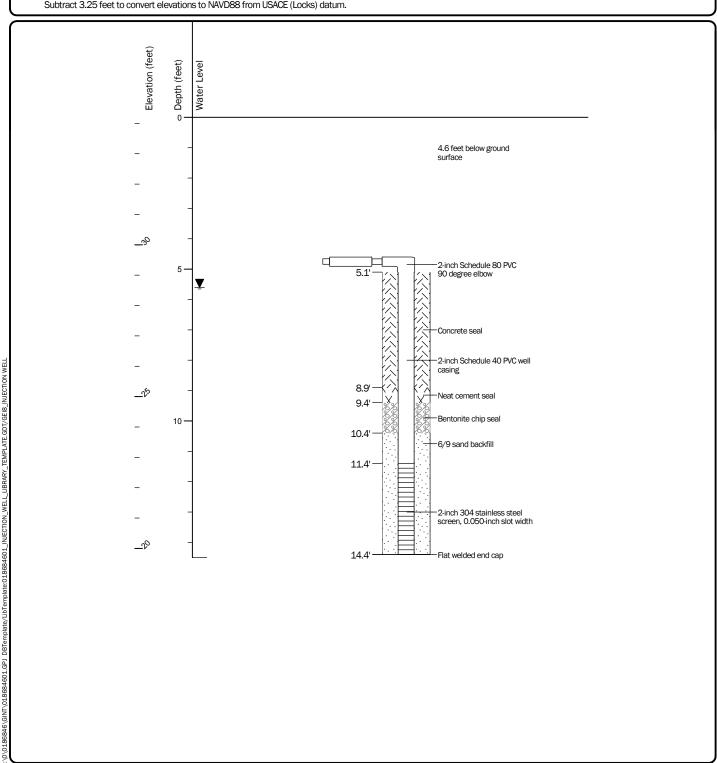
Project Location: Gas Works Park, Seattle, Washington

Project Number: 0186-846-01

Figure E-35 Sheet 2 of 2

Start Drilled 4/5/2017	<u>End</u> 4/5/2017	Total Depth (ft)	14.5	Logged By Checked By	CVD SBS	Driller Cascade Drilling	Drilling 81/4-inch OD Hollow-stem An Method w/ Star Bit			
Hammer Data	N/A			Drilling Equipment	Trac	ck-mounted CME 55	A 2 (in) well was installed on 4/5/2017 to a depth of			
Surface Elevation (ft) Vertical Datum	_	34.2 E (Locks)		Top of Casing Elevation (ft)	(ft). 29.55 Groundwater Depth to					
Easting (X) Northing (Y)		702.75 119.81		Horizontal Datum	WA State Plane North NAD83 (feet)		<u>Date Measured</u> 4/24/2017	<u>Water (ft)</u> 5.60	Elevation (ft) 23.95	
Notes: Well developed by alternately pumping and surging 31 gallons removed. Well connected to east vault. Concrete encountered from 14 to 14½ feet										

Notes: Well developed by alternately pumping and surging, 31 gallons removed. Well connected to east vault. Concrete encountered from 14 to 14½ feet. Subtract 3.25 feet to convert elevations to NAVD88 from USACE (Locks) datum.



Log of Well C6 (fill)



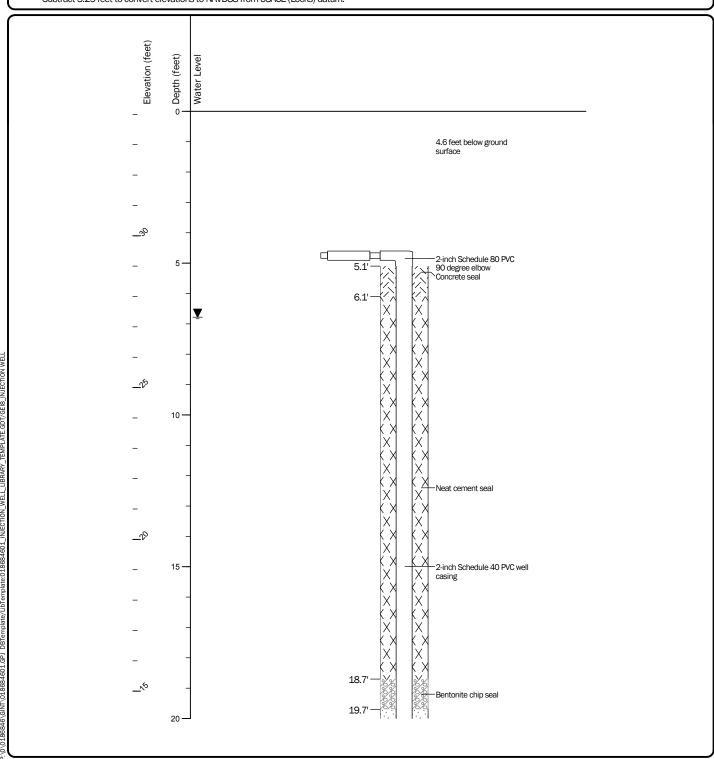
Project: GWPS - Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington

Project Number: 0186-846-01

Start Drilled 4/7/2017	<u>End</u> 4/7/2017	Total Depth (ft)	28.7	Logged By Checked By	PDR SBS	Driller Cascade Drilling		Drilling 81/4-inch OD Hollow-stem Au Method w/ Star Bit		
Hammer Data	N/A	Ţ		Drilling Equipment	Trac	k-mounted CME 55	DOE Well I.D.: BKA 064 A 2 (in) well was installed on 4/7/2017 to a depth of 2:			
Surface Elevation (ft) Vertical Datum	_	34.1 E (Locks)		Top of Casing Elevation (ft)	(ft). 29.55 Groundwater Depth to					
Easting (X) Northing (Y))698.62 116.76		Horizontal Datum	WA State Plane North NAD83 (feet)		<u>Date Measured</u> 4/24/2017	<u>Water (ft)</u> 6.78	Elevation (ft) 22.77	
Notes: Well developed	Notes: Well developed by alternately pumping and surging. 15 gallons removed. Well connected to east vault. Concrete encountered from 15 to 17 feet.									

Notes: Well developed by alternately pumping and surging, 15 gallons removed. Well connected to east vault. Concrete encountered from 15 to 17 feet. Subtract 3.25 feet to convert elevations to NAVD88 from USACE (Locks) datum.



Log of Well C7 (outwash)

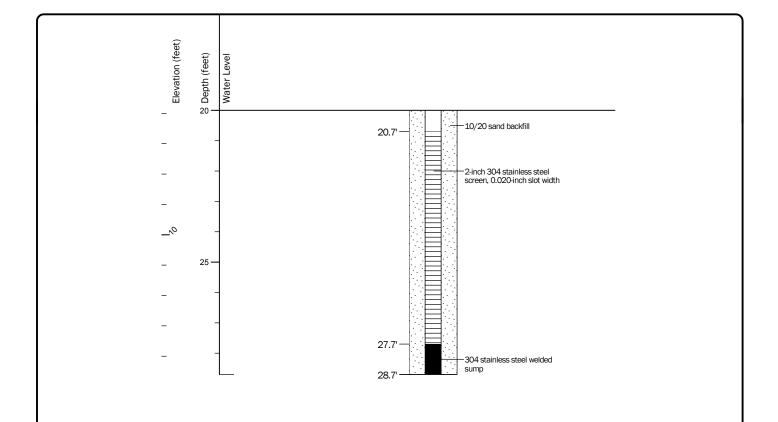


Project: GWPS - Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington

Project Number: 0186-846-01

Figure E-37



Log of Well C7 (outwash) (continued)



Project: GWPS - Play Area Groundwater Infrastructure Installation

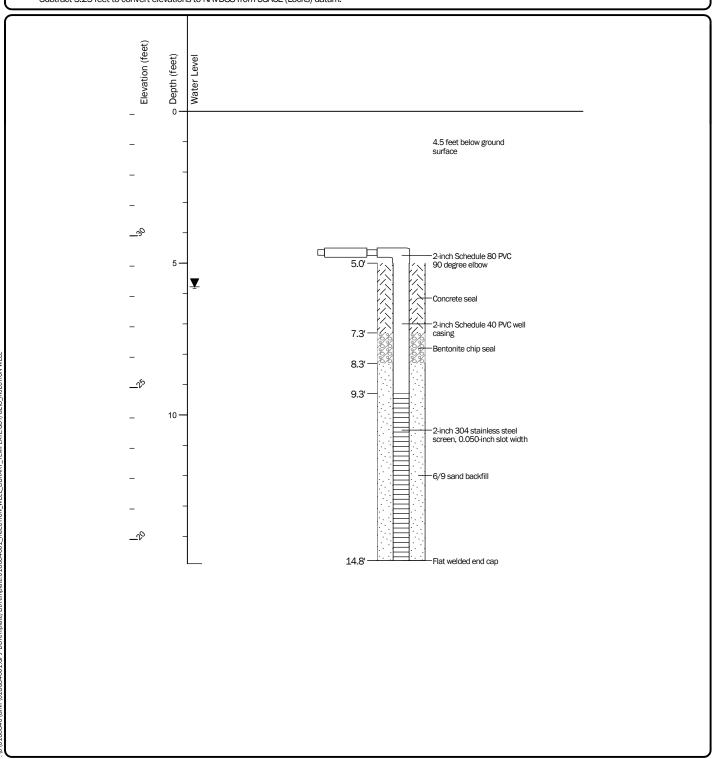
Project Location: Gas Works Park, Seattle, Washington

Project Number: 0186-846-01

Figure E-37

Sheet 2 of 2

Start Drilled 4/10/2017	<u>End</u> 4/10/2017	Total Depth (ft)	14.9	Logged By Checked By	PDR SBS	Driller Cascade Drilling		Drilling 81/4-inch OD Hollow-stem Auger Method w/ Star Bit		
Hammer Data	N/A			Drilling Equipment	nt Track-mounted CME 55			DOE Well I.D.: BKA 065 A 2 (in) well was installed on 4/10/2017 to a depth of		
Surface Elevation (ft) Vertical Datum	34.1 USACE (Locks)			Top of Casing Elevation (ft)	29.64		14.8 (ft). Groundwater	Depth to		
Easting (X) Northing (Y))688.96 110.16		Horizontal Datum	WA	State Plane North NAD83 (feet)	<u>Date Measured</u> 4/24/2017	<u>Water (ft)</u> 5.78	Elevation (ft) 23.86	
Notes: Well developed by alternately pumping and surging, 39 gallons removed. Well connected to east vault. Subtract 3.25 feet to convert elevations to NAVD88 from USACF (Locks) datum.										





Log of Well C8 (fill)

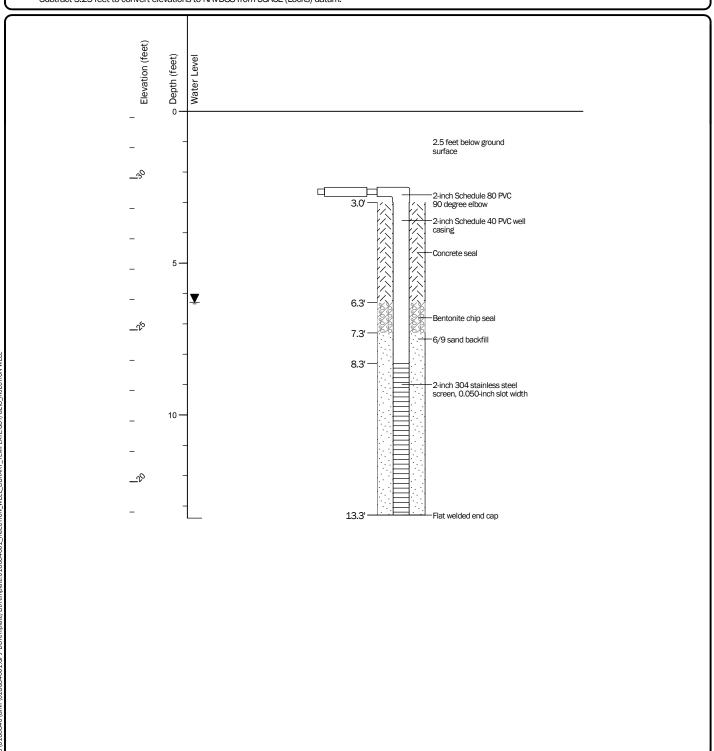
Project: GWPS - Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington

Project Number: 0186-846-01

Figure E-38 Sheet 1 of 1

Start Drilled 4/10/2017	<u>End</u> 4/10/2017	Total Depth (ft)	13.4	Logged By Checked By	PDR SBS	Driller Cascade Drilling		Drilling 8½-inch 0 Method w/ Star Bit	D Hollow-stem Auger	
Hammer Data	N/A			Drilling Equipment	ent Track-mounted CME 55			DOE Well I.D.: BKA 068 A 2 (in) well was installed on 4/10/2017 to a depth of		
Surface Elevation (ft) Vertical Datum		20.0 Top of Cacing		13.3 (ft). <u>Groundwater</u>	Depth to					
Easting (X) Northing (Y)		0689.61 080.68		Horizontal Datum	WA	State Plane North NAD83 (feet)	<u>Date Measured</u> 4/24/2017	<u>Water (ft)</u> 6.29	Elevation (ft) 23.46	
Notes: Well developed by alternately pumping and surging, 32 gallons removed. Well connected to east vault. Subtract 3.25 feet to convert elevations to NAVD88 from USACF (Locks) datum										





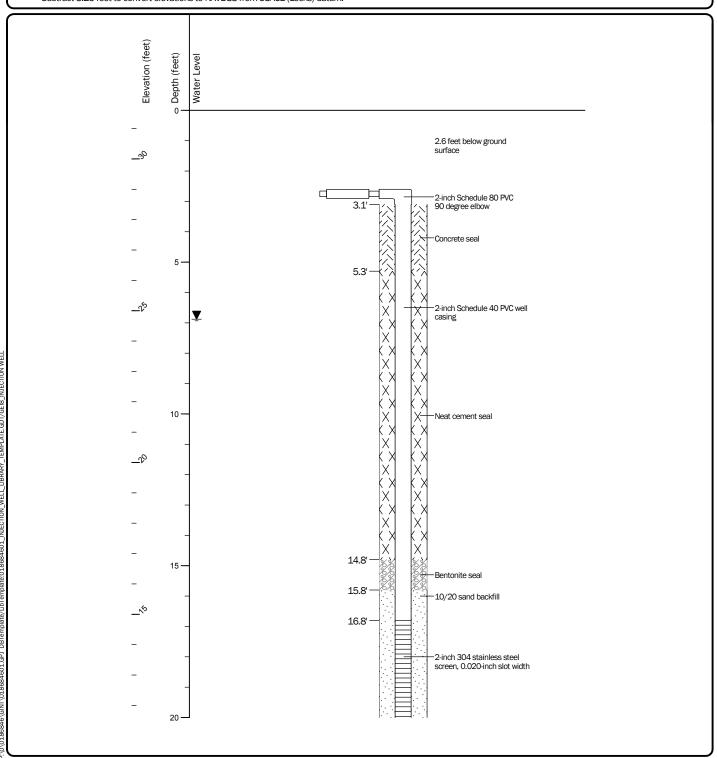
Log of Well C9 (fill)

Project: GWPS - Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington

Project Number: 0186-846-01

Start Drilled 4/11/2017	<u>End</u> 4/11/2017	Total Depth (ft)	28.8	Logged By Checked By	PDR SBS	Driller Cascade Drilling		Drilling 8½-inch OD Hollow-stem Auger Method w/ Star Bit	
Hammer Data	N/A	N/A Drilling Track-mounted CME 55 Equipment				DOE Well I.D.: BKA 069 A 2 (in) well was installed on 4/11/2017 to a depth of			
Surface Elevation (ft) Vertical Datum		31.6 E (Locks)		Top of Casing Elevation (ft)		28.92	28.8 (ft). Groundwater	Depth to	
Easting (X) Northing (Y))717.81 072.82		Horizontal Datum	WA	State Plane North NAD83 (feet)	<u>Date Measured</u> 4/24/2017	<u>Water (ft)</u> 6.88	Elevation (ft) 22.04
Notes: Well developed by alternately pumping and surging, 19 gallons removed. Well connected to east vault. Subtract 3.25 feet to convert elevations to NAVD88 from USACE (Locks) datum.									

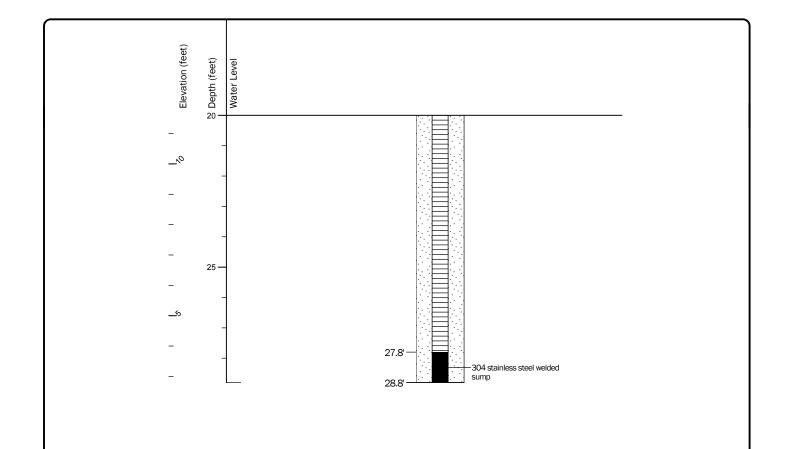




Log of Well C10 (outwash)

Project: GWPS - Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington



Log of Well C10 (outwash) (continued)



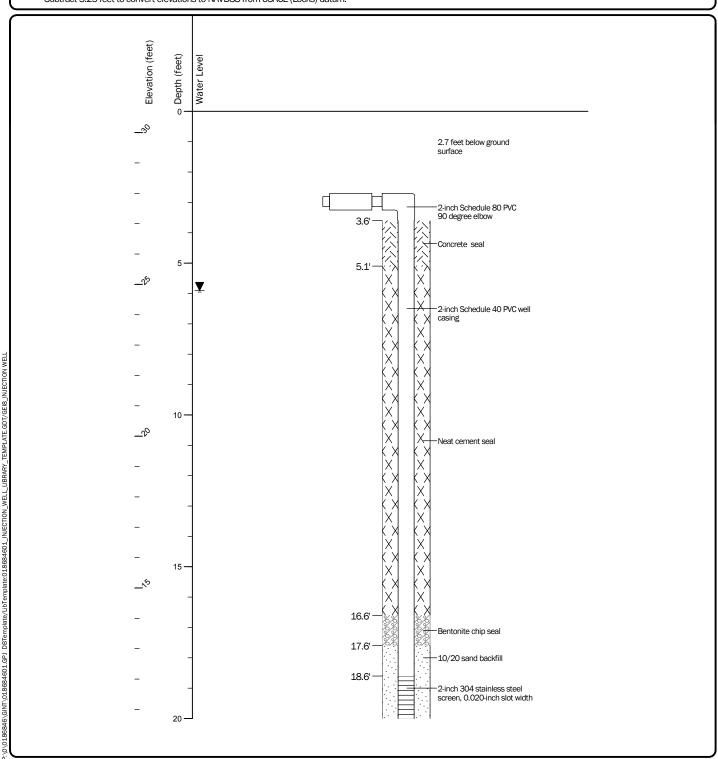
Project: GWPS - Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington

Project Number: 0186-846-01

Figure E-40 Sheet 2 of 2

<u>Start</u> Drilled 4/11/2017	<u>End</u> 4/11/2017	Total Depth (ft)	31.6	Logged By Checked By	PDR SBS	Driller Cascade Drilling		Drilling 81/4-inch OD Hollow-stem Auger Method w/ Star Bit		
Hammer Data	N/A			Drilling Equipment	Track-mounted CME 55			DOE Well I.D.: BKA 070 A 2 (in) well was installed on 4/11/2017 to a depth of		
Surface Elevation (ft) Vertical Datum	30.7 USACE (Locks)			Top of Casing Elevation (ft)	27.98		31.6 (ft). <u>Groundwater</u>	Depth to		
Easting (X) Northing (Y))743.78 080.59		Horizontal Datum	WA	State Plane North NAD83 (feet)	<u>Date Measured</u> 4/24/2017	<u>Water (ft)</u> 5.90	Elevation (ft) 22.08	
Notes: Well developed by alternately pumping and surging, 84 gallons removed. Well connected to east vault. Subtract 3.25 feet to convert elevations to NAVD88 from USACF (Locks) datum										

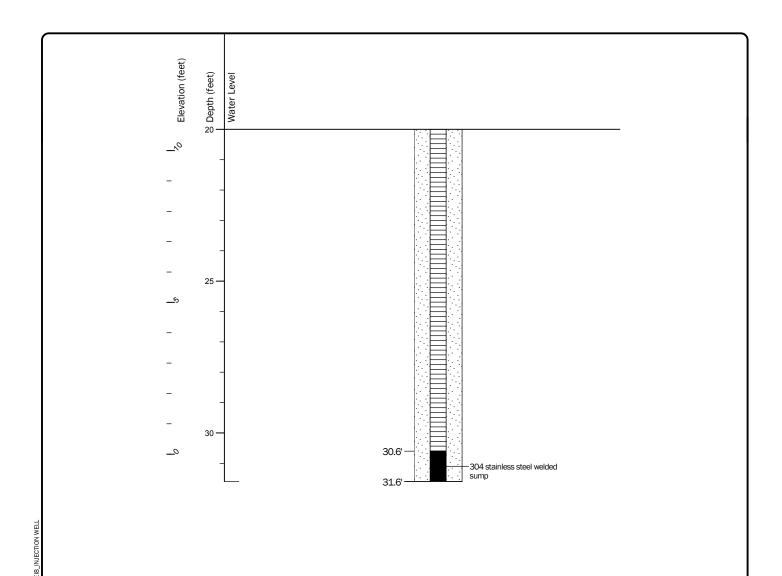




Log of Well C11 (outwash)

Project: GWPS - Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington



Log of Well C11 (outwash) (continued)



Project: GWPS - Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington

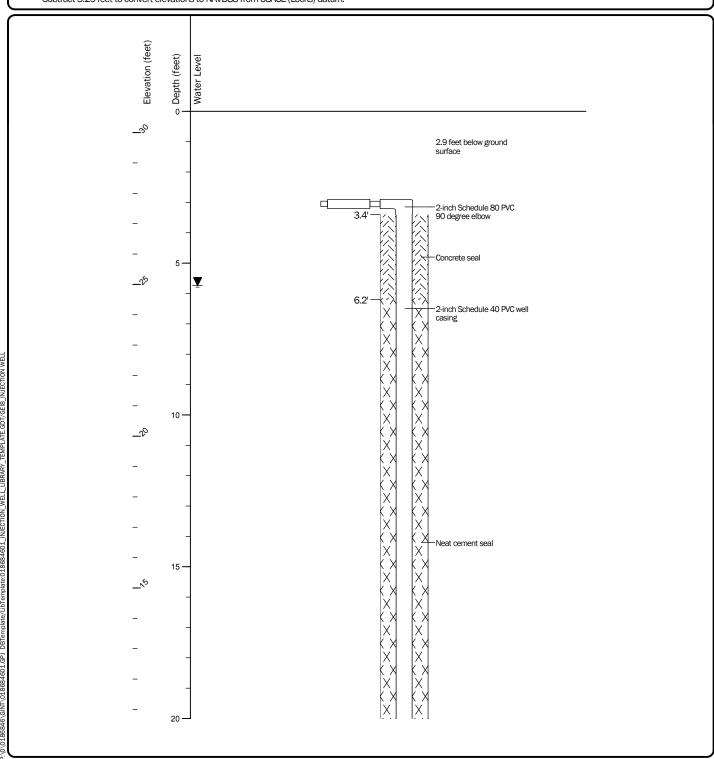
Project Number: 0186-846-01

Figure E-41

Sheet 2 of 2

<u>Start</u> Drilled 4/11/2017	<u>End</u> 4/11/2017	Total Depth (ft)	34.2	Logged By Checked By	PDR SBS	Driller Cascade Drilling		Drilling 8½-inch (Method w/ Star B	OD Hollow-stem Auger it	
Hammer Data	N/A	Ţ		Drilling Equipment	Trac	k-mounted CME 55	DOE Well I.D.: BKA 071 A 2 (in) well was installed on 4/11/2017 to a depth of			
Surface Elevation (ft) Vertical Datum		30.7 E (Locks)		Top of Casing Elevation (ft)		27.76	34.2 (ft). Groundwater	Depth to		
Easting (X) Northing (Y))758.65 095.06		Horizontal Datum	WA	State Plane North NAD83 (feet)	<u>Date Measured</u> 4/24/2017	<u>Water (ft)</u> 5.74	Elevation (ft) 22.02	
Notas: Well developed	Notes: Well developed by alternately numning and surging 17 gallons removed. Well connected to east yoult. Heaving sands encountered from 14 to 34½ feet									

Notes: Well developed by alternately pumping and surging, 17 gallons removed. Well connected to east vault. Heaving sands encountered from 14 to 34½ feet. Subtract 3.25 feet to convert elevations to NAVD88 from USACE (Locks) datum.



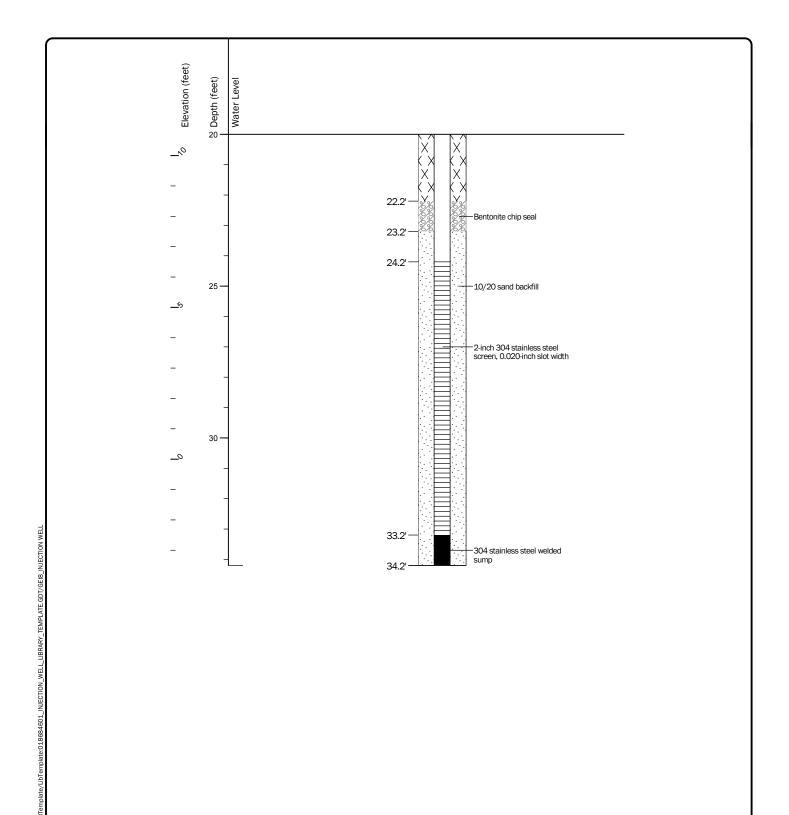
Log of Well C12 (outwash)



Project: GWPS - Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington

Project Number: 0186-846-01



Log of Well C12 (outwash) (continued)



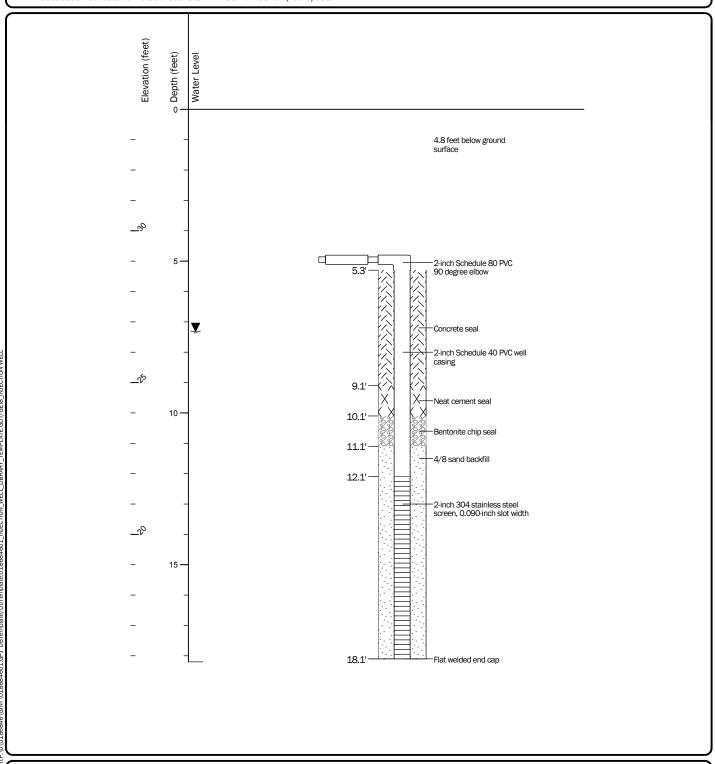
Project: GWPS - Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington

Project Number: 0186-846-01

Sheet 2 of 2

Start Drilled 3/29/2017	<u>End</u> 3/29/2017	Total Depth (ft)	18.2	Logged By Checked By	CVD SBS	Driller Cascade Drilling		Drilling 8½-inch 0 Method w/ Star Bit	D Hollow-stem Auger
Hammer Data	N/A	\		Drilling Equipment	Trac	ck-mounted CME 55		BKA 044 s installed on 3/29/20:	17 to a depth of
Surface Elevation (ft) Vertical Datum	-	4.0 E (Locks)		Top of Casing Elevation (ft)		29.22	18.1 (ft). Groundwater	Depth to	
Easting (X) Northing (Y))735.83 170.34		Horizontal Datum	WA	State Plane North NAD83 (feet)	<u>Date Measured</u> 4/24/2017	<u>Water (ft)</u> 7.31	Elevation (ft) 21.91
Notes: Well developed by alternately pumping and surging, 113 gallons removed. Well connected to east vault. Subtract 3.25 feet to convert elevations to NAVD88 from USACE (Locks) datum.									



Log of Well D1 (fill)

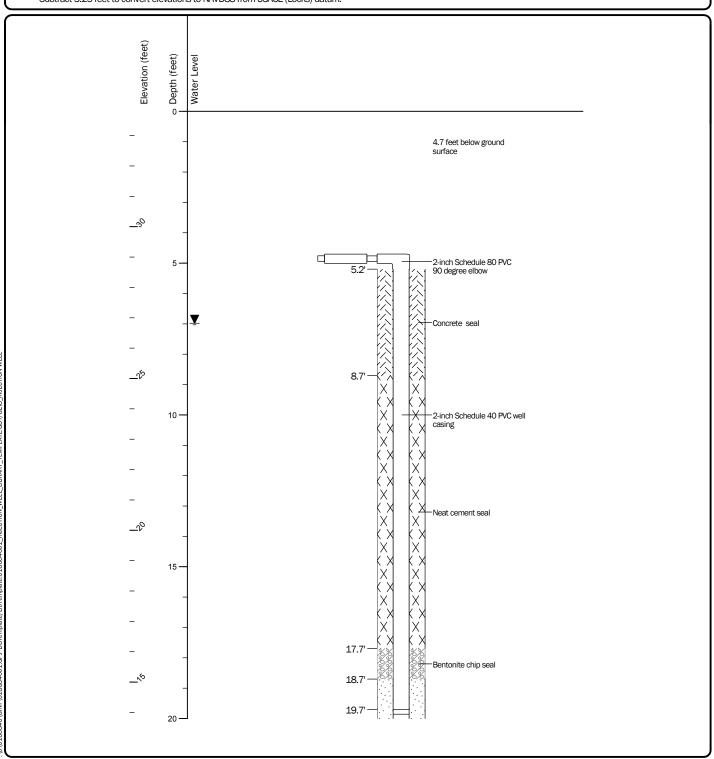


Project: GWPS - Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington

Project Number: 0186-846-01

Start Drilled 3/29/2017	<u>End</u> 3/29/2017	Total Depth (ft)	30.2	Logged By Checked By	CVD SBS	Driller Cascade Drilling		Drilling 8½-inch (Method w/ Star B	OD Hollow-stem Auger it
Hammer Data	N/A	\		Drilling Equipment	Trac	ck-mounted CME 55		BKA 045 s installed on 3/29/20	017 to a depth of
Surface Elevation (ft) Vertical Datum		33.8 E (Locks)		Top of Casing Elevation (ft)		29.07	30.2 (ft). <u>Groundwater</u>	Depth to	
Easting (X) Northing (Y))735.63 166.43		Horizontal Datum	WA	State Plane North NAD83 (feet)	<u>Date Measured</u> 4/24/2017	<u>Water (ft)</u> 6.98	Elevation (ft) 22.09
Notes: Well developed by alternately pumping and surging, 35 gallons removed. Well connected to east vault. Subtract 3.25 feet to convert elevations to NAVD88 from USACE (Locks) datum.									



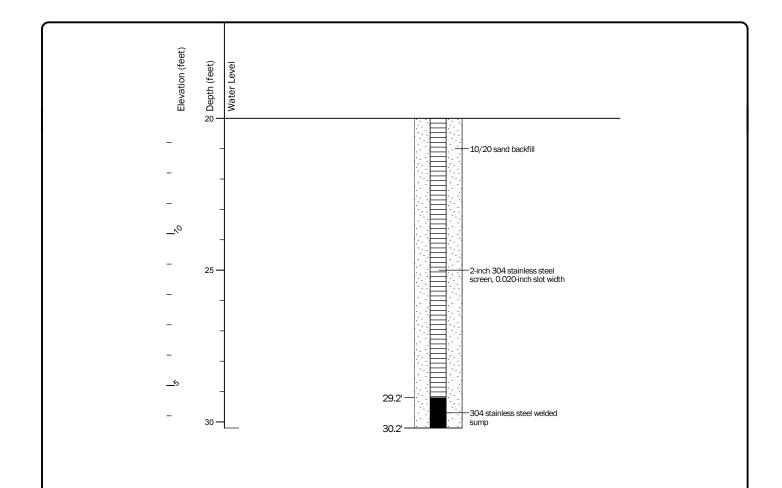


Log of Well D2 (outwash)

Project: GWPS - Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington

Project Number: 0186-846-01



Log of Well D2 (outwash) (continued)



Project: GWPS - Play Area Groundwater Infrastructure Installation

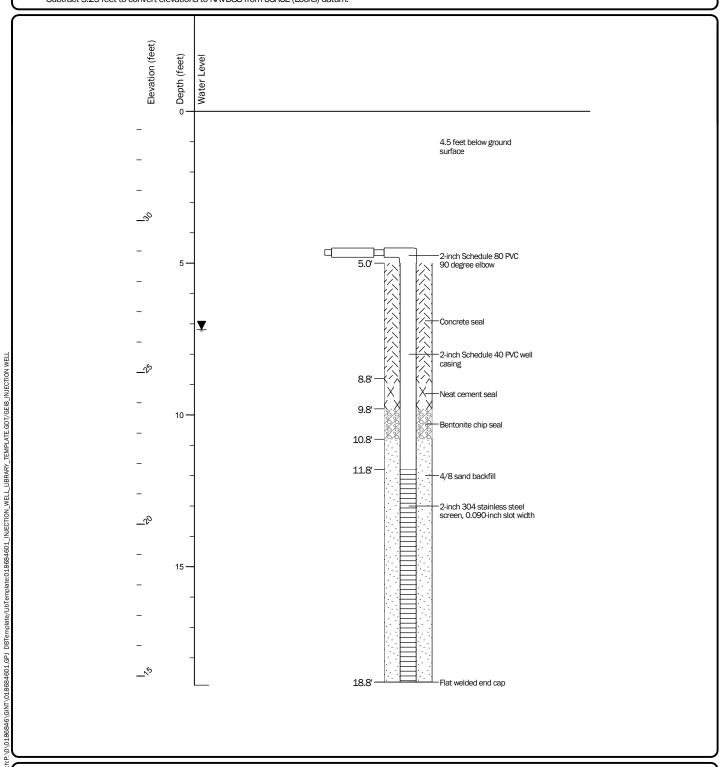
Project Location: Gas Works Park, Seattle, Washington

Project Number: 0186-846-01

Figure E-43

Sheet 2 of 2

Start Drilled 3/29/2017	<u>End</u> 3/29/2017	Total Depth (ft)	18.9	Logged By Checked By	CVD SBS	Driller Cascade Drilling		Drilling 8½-inch 0 Method w/ Star Bi	DD Hollow-stem Auger it
Hammer Data	N/A	A		Drilling Equipment	Trac	ck-mounted CME 55	DOE Well I.D.: BKA 046 A 2 (in) well was installed on 3/29/2017 to a depth of		
Surface Elevation (ft) Vertical Datum		33.6 E (Locks)		Top of Casing Elevation (ft)		29.05	18.8 (ft). Groundwater	Depth to	
Easting (X) Northing (Y)		0736.47 152.19		Horizontal Datum	WA	State Plane North NAD83 (feet)	<u>Date Measured</u> 4/24/2017	<u>Water (ft)</u> 7.18	Elevation (ft) 21.87
Notes: Well developed by alternately pumping and surging, 84 gallons removed. Well connected to east vault. Subtract 3.25 feet to convert elevations to NAVD88 from USACF (Locks) datum									





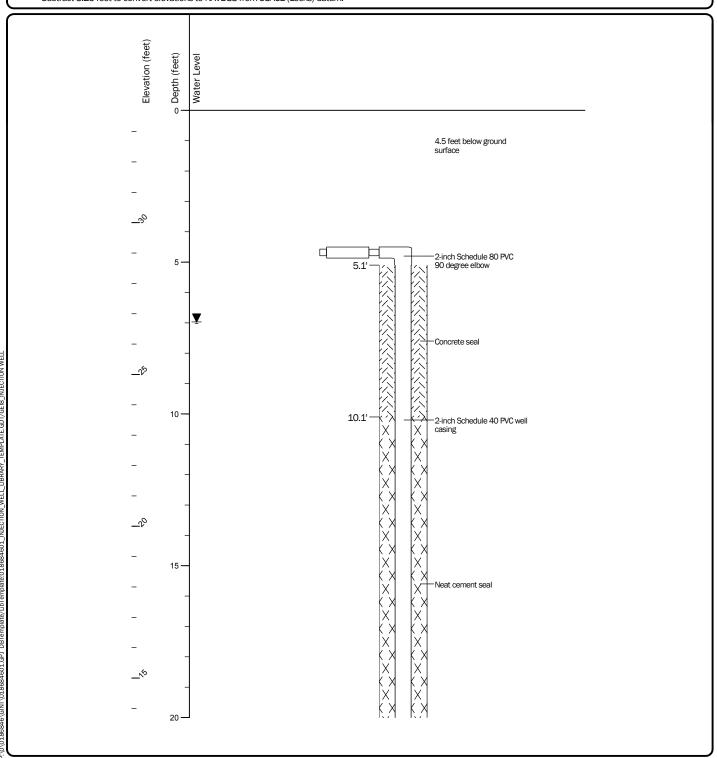
Log of Well D3 (fill)

Project: GWPS - Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington

Project Number: 0186-846-01

Start Drilled 3/30/2017	<u>End</u> 3/30/2017	Total Depth (ft)	33.1	Logged By Checked By	CVD SBS	Driller Cascade Drilling		Drilling 8½-incl Method w/ Star	h OD Hollow-stem Auger Bit
Hammer Data	N/A	\		Drilling Equipment	Trad	ck-mounted CME 55	DOE Well I.D.: BKA 049 A 2 (in) well was installed on 3/30/2017 to a depth of		
Surface Elevation (ft) Vertical Datum		33.7 E (Locks)		Top of Casing Elevation (ft)		29.20	33.1 (ft). <u>Groundwater</u>	Depth to	
Easting (X) Northing (Y))736.02 9149		Horizontal Datum	WA	State Plane North NAD83 (feet)	<u>Date Measured</u> 4/24/2017	<u>Water (ft)</u> 6.97	Elevation (ft) 22.23
Notes: Well developed by alternately pumping and surging, 73 gallons removed. Well connected to east vault. Subtract 3.25 feet to convert elevations to NAVD88 from USACE (Locks) datum.									





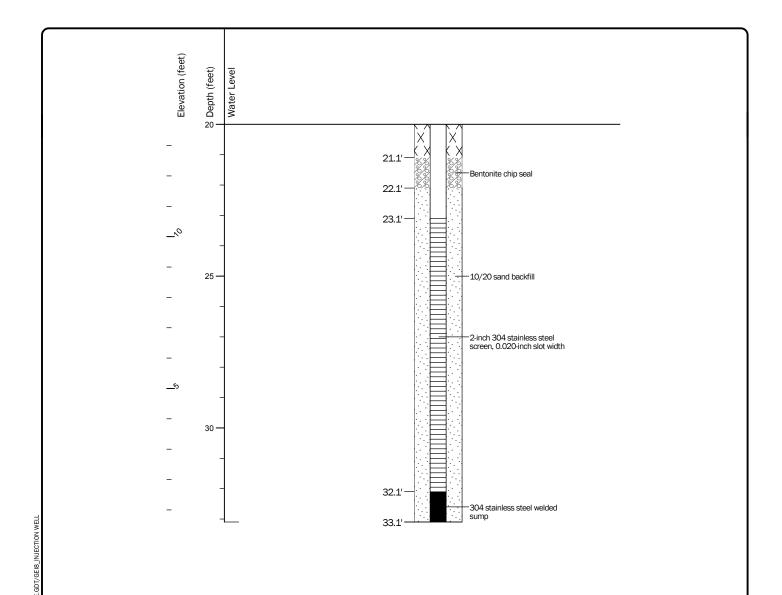


Project: GWPS - Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington

Project Number: 0186-846-01

Figure E-45



Log of Well D4 (outwash) (continued)



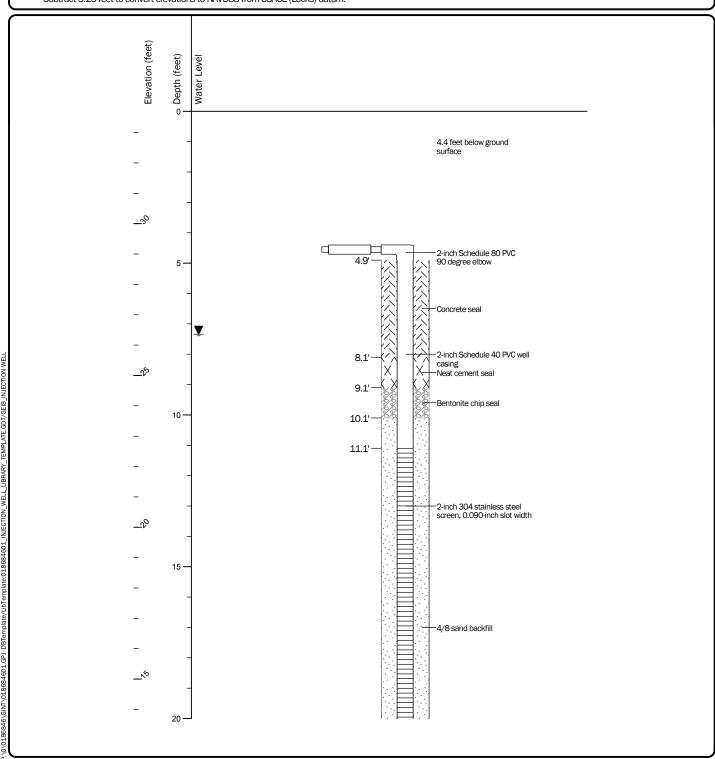
Project: GWPS - Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington

Project Number: 0186-846-01

Figure E-45 Sheet 2 of 2

Start Drilled 3/30/2017	<u>End</u> 3/30/2017	Total Depth (ft)	21.1	Logged By Checked By	CVD SBS	Driller Cascade Drilling		Drilling 8½-inch 0 Method w/ Star Bit	D Hollow-stem Auger t
Hammer Data	N/A	Ţ		Drilling Equipment	Trac	ck-mounted CME 55	DOE Well I.D.: BKA 048 A 2 (in) well was installed on 3/30/2017 to a depth of		
Surface Elevation (ft) Vertical Datum		33.7 E (Locks)		Top of Casing Elevation (ft)		29.26	21.1 (ft). Groundwater	Depth to	
Easting (X) Northing (Y))735.09 131.33		Horizontal Datum	WA	State Plane North NAD83 (feet)	<u>Date Measured</u> 4/24/2017	<u>Water (ft)</u> 7.34	Elevation (ft) 21.92
Notes: Well developed by alternately pumping and surging, 66 gallons removed. Well connected to east vault. Subtract 3.25 feet to convert elevations to NAVD88 from USACF (Locks) datum.									



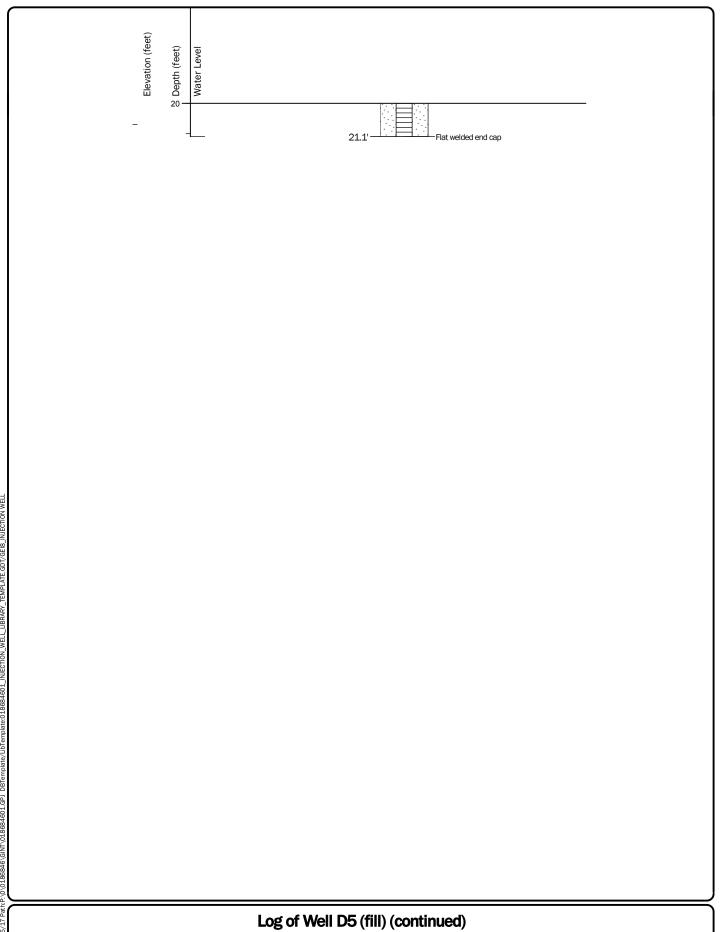
Log of Well D5 (fill)



Project: GWPS - Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington

Project Number: 0186-846-01





Project: GWPS - Play Area Groundwater Infrastructure Installation

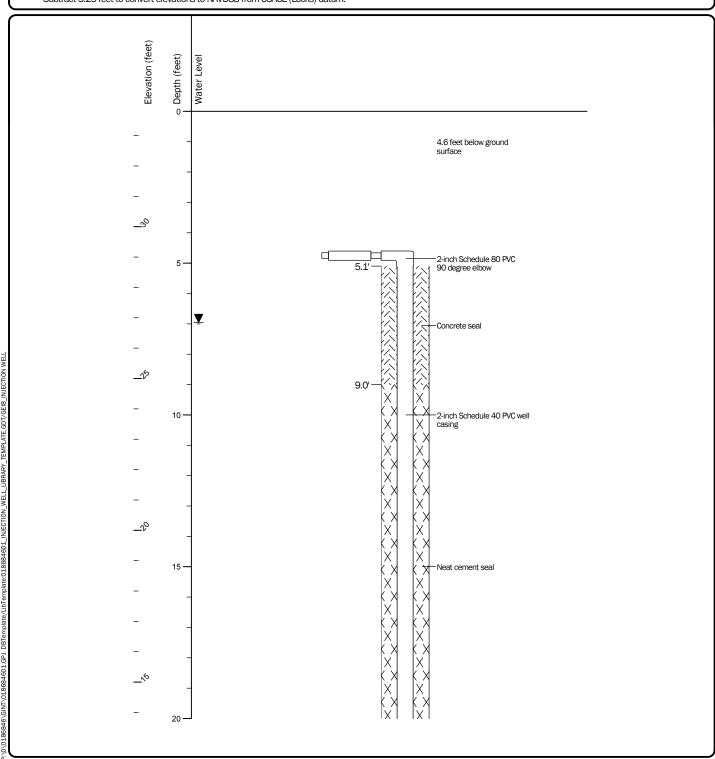
Project Location: Gas Works Park, Seattle, Washington

Project Number: 0186-846-01

Figure E-46

Sheet 2 of 2

Start Drilled 3/30/2017	<u>End</u> 3/30/2017	Total Depth (ft)	34.0	Logged By Checked By	CVD SBS	Driller Cascade Drilling		Drilling 8½-inch 0 Method w/ Star Bit	D Hollow-stem Auger
Hammer Data	N/A	Ţ		Drilling Equipment	Trac	ck-mounted CME 55	DOE Well I.D.: BKA 047 A 2 (in) well was installed on 3/30/2017 to a depth of 34		
Surface Elevation (ft) Vertical Datum		33.8 E (Locks)		Top of Casing Elevation (ft)		29.19	Groundwater	Depth to	
Easting (X) Northing (Y))735.17 127.76		Horizontal Datum	WA	State Plane North NAD83 (feet)	<u>Date Measured</u> 4/24/2017	<u>Water (ft)</u> 6.95	Elevation (ft) 22.24
Notes: Well developed by alternately pumping and surging, 76 gallons removed. Well connected to east vault. Subtract 3.25 feet to convert elevations to NAVD88 from USACF (Locks) datum.									



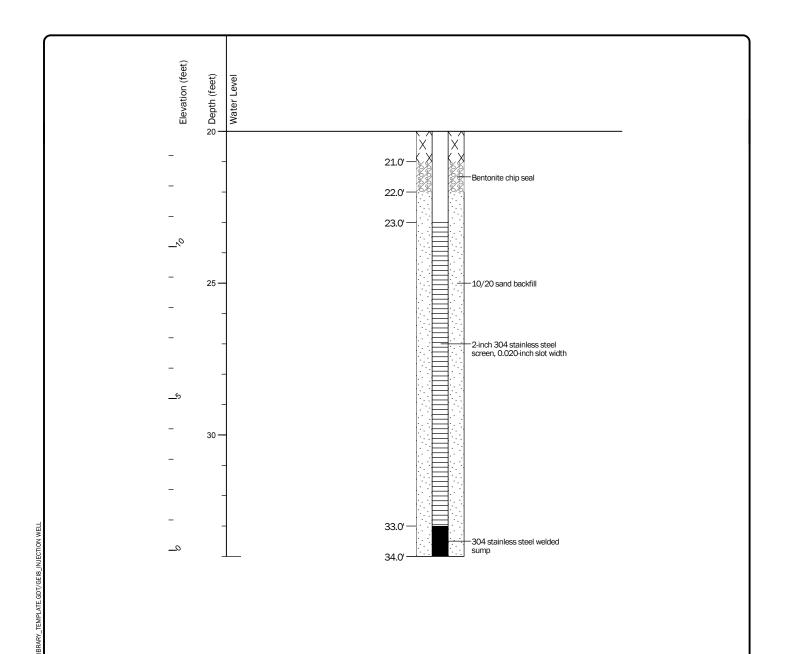
Log of Well D6 (outwash)



Project: GWPS - Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington

Project Number: 0186-846-01



Log of Well D6 (outwash) (continued)



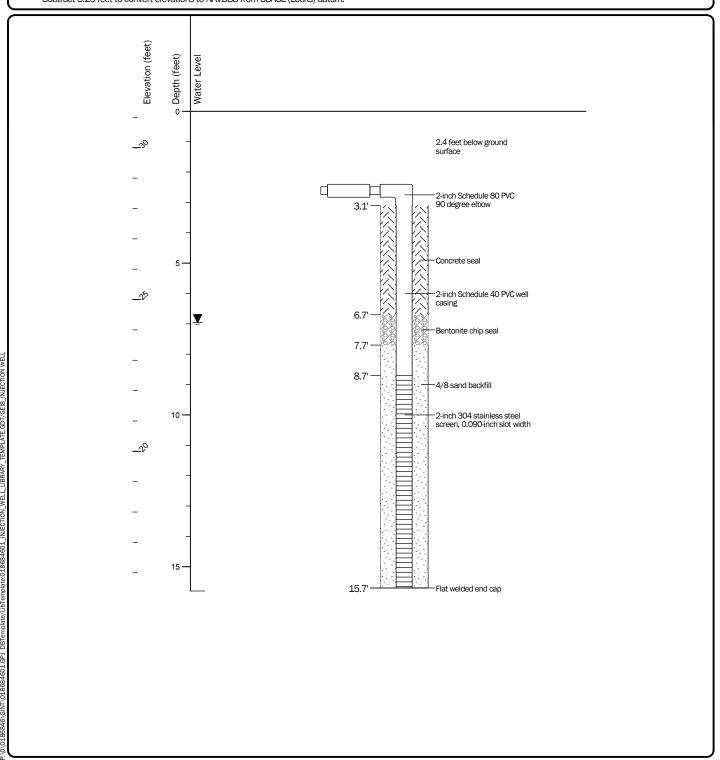
Project: GWPS - Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington

Project Number: 0186-846-01

Figure E-47 Sheet 2 of 2

Start Drilled 4/6/2017	<u>End</u> 4/6/2017	Total Depth (ft)	15.8	Logged By Checked By	CVD SBS	Driller Cascade Drilling		Drilling 8½-inch OI Method w/ Star Bit	O Hollow-stem Auger
Hammer Data	N/A	1		Drilling Equipment	Trac	ck-mounted CME 55	DOE Well I.D.: BKA 060 A 2 (in) well was installed on 4/6/2017 to a depth of 15.7		
Surface Elevation (ft) Vertical Datum		31.2 E (Locks)		Top of Casing Elevation (ft)		28.88	Groundwater	Depth to	
Easting (X) Northing (Y)	X) 1270730.11 Horizontal WA State Plane North					<u>Date Measured</u> 4/24/2017	<u>Water (ft)</u> 6.96	Elevation (ft) 21.92	
Notes: Well developed by alternately pumping and surging, 60 gallons removed. Well connected to east vault. Subtract 3.25 feet to convert elevations to NAVD88 from LISACE (Locks) datum									





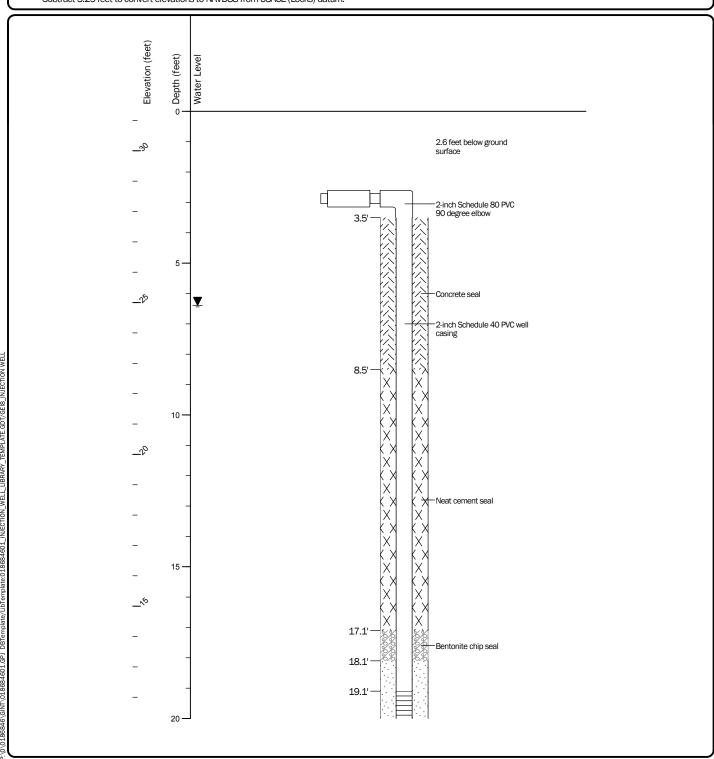


Project Location: Gas Works Park, Seattle, Washington

Project Number: 0186-846-01

Start Drilled 4/6/2017	<u>End</u> 4/6/2017	Total Depth (ft)	32.1	Logged By Checked By	CVD SBS	Driller Cascade Drilling		Drilling 81/4-inch (Method w/ Star B	DD Hollow-stem Auger t	
Hammer Data	N/A	1		Drilling Equipment	Trac	ck-mounted CME 55	(5.) ' '	BKA 061 s installed on 4/6/201	7 to a depth of 32.1	
Surface Elevation (ft) Vertical Datum	_	31.3 E (Locks)		Top of Casing Elevation (ft)		28.73	Groundwater	Depth to		
Easting (X) Northing (Y)		729.73 109.15		Horizontal Datum	WA	State Plane North NAD83 (feet)	<u>Date Measured</u> 4/24/2017	<u>Water (ft)</u> 6.39	Elevation (ft) 22.34	
Notes: Wall dayalanad	Notice: Wall developed by alternately numning and curring. At gallons removed. Wall connected to east yoult. Heaving sands encountered from 17 to 32 feet									

Notes: Well developed by alternately pumping and surging, 44 gallons removed. Well connected to east vault. Heaving sands encountered from 17 to 32 feet. Subtract 3.25 feet to convert elevations to NAVD88 from USACE (Locks) datum.



Log of Well D8 (outwash)

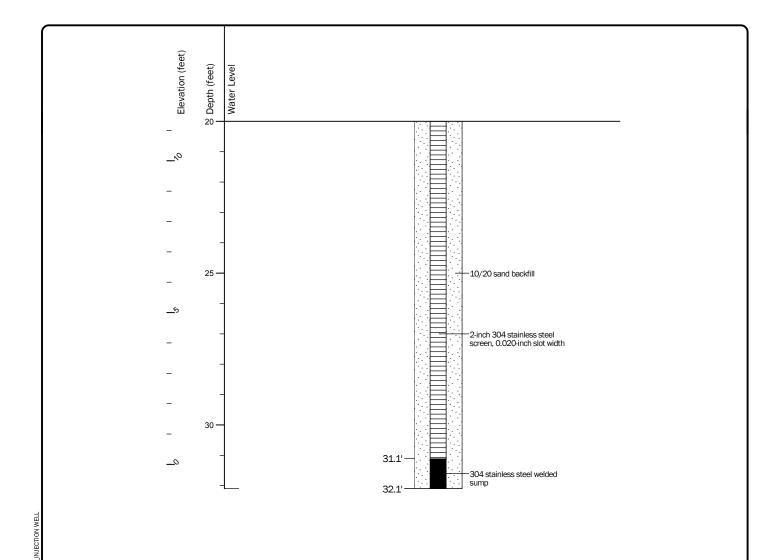


Project: GWPS - Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington

Project Number: 0186-846-01

Figure E-49



Log of Well D8 (outwash) (continued)



Project: GWPS - Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington

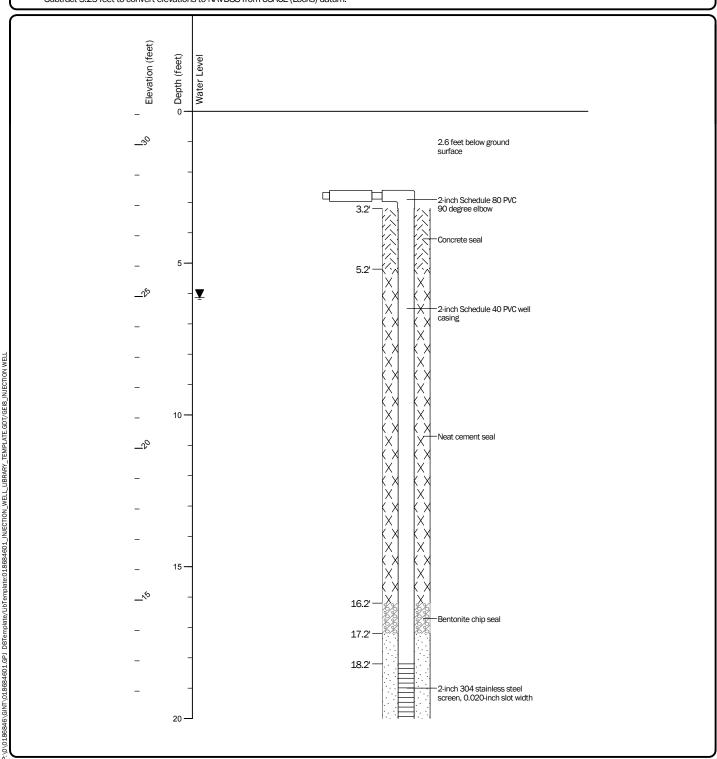
Project Number: 0186-846-01

Figure E-49

Sheet 2 of 2

Start Drilled 4/7/2017	<u>End</u> 4/7/2017	Total Depth (ft)	31.2	Logged By Checked By	PDR SBS	Driller Cascade Drilling		Drilling 8½-inch 0 Method w/ Star Bit	O Hollow-stem Auger	
Hammer Data	N/A	Ţ		Drilling Equipment	Trac	ck-mounted CME 55	(5.) ' '	BKA 063 s installed on 4/7/2017	to a depth of 31.2	
Surface Elevation (ft) Vertical Datum		31.1 E (Locks)		Top of Casing Elevation (ft)		28.44	Groundwater	Depth to		
Easting (X) Northing (Y))727.69 098.48		Horizontal Datum	WA	State Plane North NAD83 (feet)	<u>Date Measured</u> 4/24/2017	<u>Water (ft)</u> 6.14	Elevation (ft) 22.30	
Notes: Well developed	Notes: Well developed by alternately numning and surging 29 gallons removed. Well connected to east yoult. Heaving sands encountered from 15 to 31 feet									

Notes: Well developed by alternately pumping and surging, 29 gallons removed. Well connected to east vault. Heaving sands encountered from 15 to 31 feet. Subtract 3.25 feet to convert elevations to NAVD88 from USACE (Locks) datum.



Log of Well D9 (outwash)

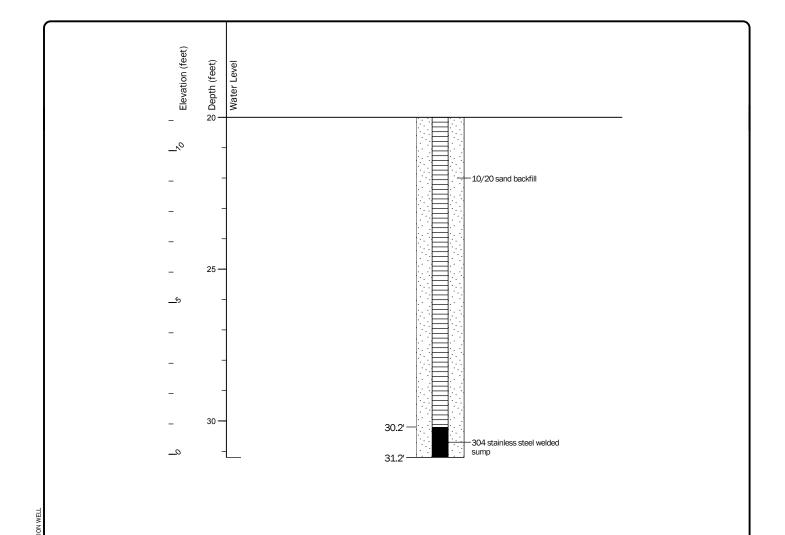


Project: GWPS - Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington

Project Number: 0186-846-01

Figure E-50



Log of Well D9 (outwash) (continued)



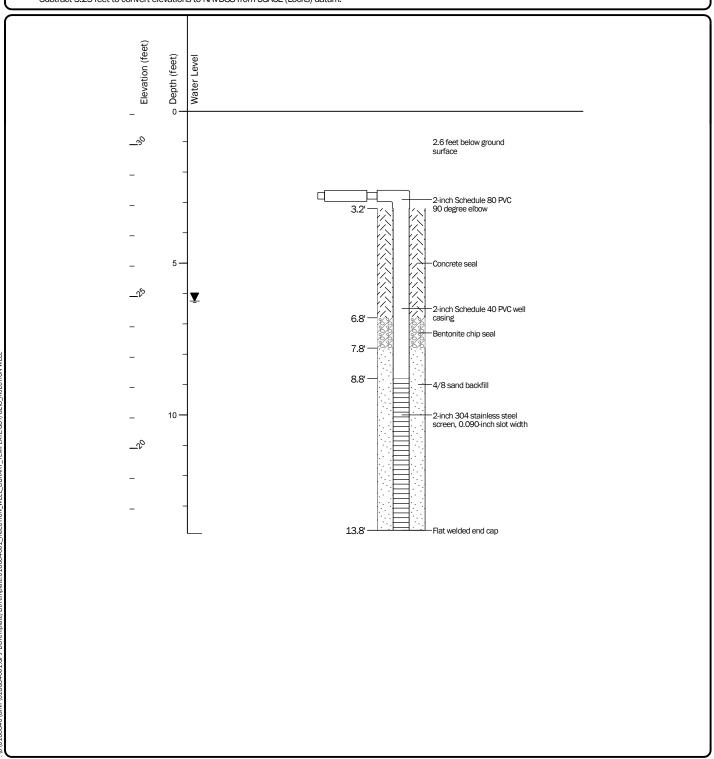
Project: GWPS - Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington

Project Number: 0186-846-01

Figure E-50 Sheet 2 of 2

Start Drilled 4/6/2017	<u>End</u> 4/6/2017	Total Depth (ft)	13.9	Logged By Checked By	CVD SBS	Driller Cascade Drilling		Drilling 8½-inch OI Method w/ Star Bit	O Hollow-stem Auger
Hammer Data	N/A	ı		Drilling Equipment	Trac	k-mounted CME 55	DOE Well I.D.: BKA 062 A 2 (in) well was installed on 4/6/2017 to a depth of 13.		
Surface Elevation (ft) Vertical Datum		31.1 E (Locks)		Top of Casing Elevation (ft)		28.54	(ft). Groundwater	Depth to	
Easting (X) Northing (Y)		726.05 095.41		Horizontal Datum	WA	State Plane North NAD83 (feet)	<u>Date Measured</u> 4/24/2017	<u>Water (ft)</u> 6.25	Elevation (ft) 22.29
Notes: Well developed by alternately pumping and surging, 39 gallons removed. Well connected to east vault. Subtract 3.25 feet to convert elevations to NAVD88 from USACE (Locks) datum.									





Log of Well D10 (fill)

Project: GWPS - Play Area Groundwater Infrastructure Installation

Project Location: Gas Works Park, Seattle, Washington

Project Number: 0186-846-01

APPENDIX F Injection Piping Cut Sheet



SOLVENT WELD

SCHEDULE SERIES

MEETS ASTM D1785 AND D2665.



APPLICATIONS

JM Eagle Solvent Weld Schedule Series pipes are suitable for use in both pressure and drain, waste and vent applications.

DESCRIPTION

JM Eagle's wide line of Solvent Weld includes PVC Schedule 40 (ASTM D1785 and ASTM D2665) and 80 (ASTM D1785) for both pressure and non-pressure applications.

The pipes are available in 10- and/or 20-foot lengths, in ½- to 16-inch diameters in Schedule 40, bell end, and ½- to 12-inch diameters in Schedule 80, plain end.

JM Eagle's ASTM 1785 product also comes in a specially formulated PVC material to increase resistance to ultraviolet rays. Called SolarBlok, it comes in IPS, 20-foot lengths, in beige.

Solvent Weld joints are designed to provide a rigid (or restrained) joint connection, and the schedule-rated products are specifically engineered for use in partial support systems above ground.

A 20-foot length of Solvent Weld Schedule 40 PVC water pipe weighs approximately 72 pounds.

BENEFITS

JM Eagle Solvent Weld schedule series pipe is cost-effective and long-lasting.

- It can be field-cut with a power saw or ordinary handsaw without the use of expensive or complicated machinery.
- Easy to load, transport and handle, installers prefer it because it goes into the ground quickly, saving installation costs.
- It maintains performance against tuberculation, corrosion and external galvanic soil conditions without lining wrapping, coating or cathodic protection.
- It keeps its smooth interior over long years of service with virtually no loss in carrying capacity, allowing for savings in pumping costs, as well as savings on the size of the pipe required.
- It can be connected directly to most plumbing and IPS fixtures without complicated procedures or adapters, as well as into CIOD fittings with adapters and/or transition gaskets.
- A cured joint of JM Eagle Solvent Weld schedule series pipe offers a zeroleak joint that is structurally sound.



SOLVENT WELD

SCHEDULE SERIES

SUBMITTAL AND DATA SHEET

JM EAGLE™ PVC SCHEDULE 40

Specifications: ASTM D1785 & ASTM D2665 ::

Listed: ANSI/NSF-PW NSF-DWV Standard 61, Standard 14

:: Standard Color: White, Standard Length 10' & 20', Plain End and Belled End.

NOM. PIPE SIZE (IN)	O.D. (IN)	NOM. I.D. (IN)	MIN. T. (IN)	PRESSURE RATING AT 23°C (73°F)	WEIGHT (LBS/FT)
1/2	0.840	0.609	0.109	600	0.164
3/4	1.050	0.810	0.113	480	0.218
1	1.315	1.033	0.133	450	0.324
11/4	1.660	1.363	0.140	370	0.439
11/2	1.900	1.593	0.145	330	0.525
2	2.375	2.049	0.154	280	0.705
21/2	2.875	2.445	0.203	300	1.118
3	3.500	3.042	0.216	260	1.463
4	4.500	3.998	0.237	220	2.083
6	6.625	6.031	0.280	180	3.663
8	8.625	7.942	0.322	160	5.512
10	10.750	9.976	0.365	140	7.815
12	12.750	11.889	0.406	130	10.333
14	14.000	13.073	0.437	130	12.220
16	16.000	14.940	0.500	130	15.980

WATER

JM EAGLE™ PVC SCHEDULE 80 PIPE

Specifications: ASTM D1785::

Listed: ANSI/NSF-PW Standard 61, Standard 14

:: Standard Color: Dark Gray, Standard Length: 20' overall, Plain End Only

† Available in Western Region Only.

I.D.: Inside Diameter O.D.: Outside Diameter T.: Wall Thickness

NOM. PIPE SIZE (IN)	O.D. (IN)	NOM. I.D. (IN)	MIN. T. (IN)	PRESSURE RATING (psi)	APPROX. WEIGHT (LBS/FT)
1/2	0.840	0.528	0.147	850	0.210
3/4	1.050	0.724	0.154	690	0.285
1	1.315	0.936	0.179	630	0.419
11/4	1.660	1.255	0.191	520	0.579
1½	1.900	1.476	0.200	470	0.701
2	2.375	1.913	0.218	400	0.969
21/2	2.875	2.290	0.276	420	1.479
3	3.500	2.864	0.300	370	1.979
4	4.500	3.786	0.337	320	2.892
6	6.625	5.709	0.432	280	5.516
8	8.625	7.565	0.500	250	8.336
10 †	10.750	9.493	0.593	230	12.375
12†	12.750	11.294	0.687	230	17.027

JM EAGLE™ SOLARBLOK UVR SCHEDULE 40 IPS SIZE

Specifications: ASTM D1785

Listed: ANSI/NSF 61

Pipe color is beige.

Pipe is produced with integral Solvent Weld bells.

Available in 20 foot lengths only.

PVC material is specially formulated to increase

resistance to ultraviolet rays.

The material includes the maximum amount of titanium dioxide allowed by the PPI PVC Range Composition for pressure pipe applications.

NOM. PIPE SIZE (IN)	O.D. (IN)	APPROX. I. D. (IN)	MIN. T. (IN)	PRESSURE RATING (psi)	APPROX. WEIGHT (LBS/FT)
1/2	0.840	0.609	0.109	600	0.164
3/4	1,050	0.810	0.113	480	0.218
1	1.315	1.033	0.133	450	0.324
11/4	1.660	1.363	0.140	370	0.439
11/2	1.900	1.593	0.145	330	0.525
2	2.375	2.049	0.154	280	0.705
2 ½	2.875	2.445	0.203	300	1.118
3	3.500	3.042	0.216	260	1.463
4	4.500	3.998	0.237	220	2.083



P-T Coupling Co., Inc. 1414 E. Willow

Enid.

Phone:580-237-4060

Website: http://www.ptcoupling.com

Item # 2900410, D-Coupler (Coupler x Female NPT Thread)

List Price QUOTE

PT hose shanks are the most versatile for attaching to hose. The specially designed multi-barbed shank allows for attachment via original Punch-Lok™ center punch clamps or by an interlocked ProGrip™ C-50 ferrule or sleeve.

HBS cam arms are made of 300 series Stainless Steel.

HB cam arms are made of Brass

All Stainless Steel castings are 316 and all standard components are 300 series Stainless Steel.

Please call for special quote on complete cam arm assembly and components in 316 Stainless Steel.

8, 10 and 12 inch couplers are 4-cam designs with the STA-LOK® positive locking feature.

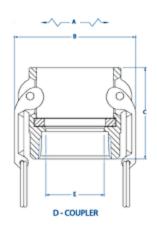
All 1-1/2" to 6" Aluminum or Hard Coat Aluminum castings are available with Undersized shank. To order add the letters "US" after the existing item numbers listed above.

Couplings not interchangeable in the industry are sizes 8" through 12".

Made in the U.S.A.

Note: Prices subject to change without notice.





Specifications

Part Name	10D
Туре	Coupler x Female NPT Thread
Material	Nylon
Size	1 in.
Coupler Size	1 in.
Thread (Female NPT)	1 in.
O. D. with Cam Arms Extended (A)	5.10 in.
O. D. With Call Allis Extended (A)	130 mm

Outside Diameter (B)	2.44 in. 62 mm
Overall Length (C)	2.50 in. 64 mm
Inside Diameter (E)	0.97 in. 25 mm
Engagement Length	1.19 in.



P-T Coupling Co., Inc. 1414 E. Willow Enid,

Phone:580-237-4060

Website: http://www.ptcoupling.com

W-Adapter (Dust Plug)

PT maintains inventories at its 16 branch warehouse locations.

Couplings not interchangeable in the industry are sizes 5" and 8" through 12".

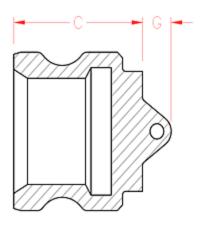
Made in the U.S.A.

Note: Prices subject to change without notice.

More Information:

Recommended Operating Conditions (PDF)
Safety Instructions & Recommended Materials (PDF)
PT Coupling Warranty Information (PDF)





Results 1 - 91 of 91

<u>ltem #</u>	Part Name	<u>Material</u>	Adapter Size	Chain Lug Extension (G)	Inventory	<u>List Price</u>
1001201	E05W	Aluminum	1/2 in.	0.50 in. 13 mm	N/A	QUOTE
<u>1201201</u>	E05W	Brass	1/2 in.	0.50 in. 13 mm	N/A	QUOTE
<u>1401201</u>	E05W	Stainless Steel	1/2 in.	0.50 in. 13 mm	N/A	QUOTE
<u>1801201</u>	E05W	Ductile Iron	1/2 in.	0.50 in. 13 mm	N/A	QUOTE
2001201	E05W	Hard Coat Aluminum	1/2 in.	0.50 in. 13 mm	N/A	QUOTE
<u>2401201</u>	E05W	Carbon Steel	1/2 in.	0.50 in. 13 mm	N/A	QUOTE
1001207	07W	Aluminum	3/4 in.	0.59 in. 15 mm	N/A	QUOTE
1201207	07W	Brass	3/4 in.	0.59 in. 15 mm	N/A	QUOTE

1401207	07W	Stainless Steel	3/4 in.	0.59 in. 15 mm	N/A	QUOTE
<u>1801207</u>	07W	Ductile Iron	3/4 in.	0.59 in. 15 mm	N/A	QUOTE
2001207	07W	Hard Coat Aluminum	3/4 in.	0.59 in. 15 mm	N/A	QUOTE
2401207	07W	Carbon Steel	3/4 in.	0.59 in. 15 mm	N/A	QUOTE
2701207	07W	Polypropylene	3/4 in.	0.59 in. 15 mm	N/A	QUOTE
2771207	07W	Food Grade Poly	3/4 in.	0.59 in. 15 mm	N/A	QUOTE
2901207	07W	Nylon	3/4 in.	0.59 in. 15 mm	N/A	QUOTE
1001210	10W	Aluminum	1 in.	0.96 in. 24 mm	N/A	QUOTE
1201210	10W	Brass	1 in.	0.96 in. 24 mm	N/A	QUOTE
1401210	10W	Stainless Steel	1 in.	0.96 in. 24 mm	N/A	QUOTE
1801210	10W	Ductile Iron	1 in.	0.96 in. 24 mm	N/A	QUOTE
2001210	10W	Hard Coat Aluminum	1 in.	0.96 in. 24 mm	N/A	QUOTE
2401210	10W	Carbon Steel	1 in.	0.96 in. 24 mm	N/A	QUOTE
2701210	10W	Polypropylene	1 in.	0.96 in. 24 mm	N/A	QUOTE
2771210	10W	Food Grade Poly	1 in.	0.96 in. 24 mm	N/A	QUOTE
2901210	10W	Nylon	1 in.	0.96 in. 24 mm	N/A	QUOTE
1001212	12W	Aluminum	1-1/4 in.	0.62 in. 16 mm	N/A	QUOTE
1201212	12W	Brass	1-1/4 in.	0.62 in. 16 mm	N/A	QUOTE
1401212	12W	Stainless Steel	1-1/4 in.	0.62 in. 16 mm	N/A	QUOTE
1801212	12W	Ductile Iron	1-1/4 in.	0.62 in. 16 mm	N/A	QUOTE
2001212	12W	Hard Coat Aluminum	1-1/4 in.	0.62 in. 16 mm	N/A	QUOTE
2701212	12W	Polypropylene	1-1/4 in.	0.62 in. 16 mm	N/A	QUOTE
2771212	12W	Food Grade Poly	1-1/4 in.	0.62 in. 16 mm	N/A	QUOTE
1001215	15W	Aluminum	1-1/2 in.	0.50 in. 13 mm	N/A	QUOTE
1201215	15W	Brass	1-1/2 in.	0.50 in. 13 mm	N/A	QUOTE
1401215	15W	Stainless Steel	1-1/2 in.	0.50 in. 13 mm	N/A	QUOTE
1801215	15W	Ductile Iron	1-1/2 in.	0.50 in. 13 mm	N/A	QUOTE

2001215	15W	Hard Coat Aluminum	1-1/2 in.	0.50 in. 13 mm	N/A	QUOTE
2401215	15W	Carbon Steel	1-1/2 in.	0.50 in. 13 mm	N/A	QUOTE
<u>2701215</u>	15W	Polypropylene	1-1/2 in.	0.50 in. 13 mm	N/A	QUOTE
<u>2771215</u>	15W	Food Grade Poly	1-1/2 in.	0.50 in. 13 mm	N/A	QUOTE
2901215	15W	Nylon	1-1/2 in.	0.50 in. 13 mm	N/A	QUOTE
1001220	20W	Aluminum	2 in.	0.70 in. 18 mm	N/A	QUOTE
1201220	20W	Brass	2 in.	0.70 in. 18 mm	N/A	QUOTE
1401220	20W	Stainless Steel	2 in.	0.70 in. 18 mm	N/A	QUOTE
<u>1801220</u>	20W	Ductile Iron	2 in.	0.70 in. 18 mm	N/A	QUOTE
2001220	20W	Hard Coat Aluminum	2 in.	0.70 in. 18 mm	N/A	QUOTE
2401220	20W	Carbon Steel	2 in.	0.70 in. 18 mm	N/A	QUOTE
2701220	20W	Polypropylene	2 in.	0.70 in. 18 mm	N/A	QUOTE
<u>2771220</u>	20W	Food Grade Poly	2 in.	0.70 in. 18 mm	N/A	QUOTE
2901220	20W	Nylon	2 in.	0.70 in. 18 mm	N/A	QUOTE
1001225	25W	Aluminum	2-1/2 in.	0.81 in. 21 mm	N/A	QUOTE
1201225	25W	Brass	2-1/2 in.	0.81 in. 21 mm	N/A	QUOTE
1401225	25W	Stainless Steel	2-1/2 in.	0.81 in. 21 mm	N/A	QUOTE
1801225	25W	Ductile Iron	2-1/2 in.	0.81 in. 21 mm	N/A	QUOTE
2001225	25W	Hard Coat Aluminum	2-1/2 in.	0.81 in. 21 mm	N/A	QUOTE
1001230	30W	Aluminum	3 in.	1.00 in. 25 mm	N/A	QUOTE
1201230	30W	Brass	3 in.	1.00 in. 25 mm	N/A	QUOTE
1401230	30W	Stainless Steel	3 in.	1.00 in. 25 mm	N/A	QUOTE
1801230	30W	Ductile Iron	3 in.	1.00 in. 25 mm	N/A	QUOTE
2001230	30W	Hard Coat Aluminum	3 in.	1.00 in. 25 mm	N/A	QUOTE
2401230	30W	Carbon Steel	3 in.	1.00 in. 25 mm	N/A	QUOTE
2701230	30W	Polypropylene	3 in.	1.00 in. 25 mm	N/A	QUOTE
2771230	30W	Food Grade Poly	3 in.	1.00 in. 25 mm	N/A	QUOTE

2901230	30W	Nylon	3 in.	1.00 in. 25 mm	N/A	QUOTE
1001240	40W	Aluminum	4 in.	1.00 in. 25 mm	N/A	QUOTE
1201240	40W	Brass	4 in.	1.00 in. 25 mm	N/A	QUOTE
1401240	40W	Stainless Steel	4 in.	1.00 in. 25 mm	N/A	QUOTE
1801240	40W	Ductile Iron	4 in.	1.00 in. 25 mm	N/A	QUOTE
2001240	40W	Hard Coat Aluminum	4 in.	1.00 in. 25 mm	N/A	QUOTE
2401240	40W	Carbon Steel	4 in.	1.00 in. 25 mm	N/A	QUOTE
2701240	40W	Polypropylene	4 in.	1.00 in. 25 mm	N/A	QUOTE
2771240	40W	Food Grade Poly	4 in.	1.00 in. 25 mm	N/A	QUOTE
1001250	50W	Aluminum	5 in.	0.85 in. 22 mm	N/A	QUOTE
<u>1201250</u>	50W	Brass	5 in.	0.85 in. 22 mm	N/A	QUOTE
1401250	50W	Stainless Steel	5 in.	0.85 in. 22 mm	N/A	QUOTE
1801250	50W	Ductile Iron	5 in.	0.85 in. 22 mm	N/A	QUOTE
2001250	50W	Hard Coat Aluminum	5 in.	0.85 in. 22 mm	N/A	QUOTE
1001260	60W	Aluminum	6 in.	1.00 in. 25 mm	N/A	QUOTE
1201260	60W	Brass	6 in.	1.00 in. 25 mm	N/A	QUOTE
1401260	60W	Stainless Steel	6 in.	1.00 in. 25 mm	N/A	QUOTE
1801260	60W	Ductile Iron	6 in.	1.00 in. 25 mm	N/A	QUOTE
2001260	60W	Hard Coat Aluminum	6 in.	1.00 in. 25 mm	N/A	QUOTE
1001280	80W	Aluminum	8 in.	1.18 in. 30 mm	N/A	QUOTE
1201280	80W	Brass	8 in.	1.18 in. 30 mm	N/A	QUOTE
1401280	80W	Stainless Steel	8 in.	1.18 in. 30 mm	N/A	QUOTE
<u>1801280</u>	80W	Ductile Iron	8 in.	1.18 in. 30 mm	N/A	QUOTE
2001280	80W	Hard Coat Aluminum	8 in.	1.18 in. 30 mm	N/A	QUOTE
1001290	100W	Aluminum	10 in.	0.90 in. 23 mm	N/A	QUOTE
1201290	100W	Brass	10 in.	0.90 in. 23 mm	N/A	QUOTE
1401290	100W	Stainless Steel	10 in.	0.90 in. 23 mm	N/A	QUOTE

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<u>1801290</u>	100W	Ductile Iron	10 in.	0.90 in. 23 mm	N/A	QUOTE
1001292	120W	Aluminum	12 in.	N/A	N/A	QUOTE
Results 1 - 91	1 of 91					

Part No: 835-010 Schedule 80 PVC & CPVC Adapter

Desc: 1 PVC FEM ADAPTER SOCXFPT SCH80

MSRP: 12.91 Part Code: 080

Weight(lbs): 0.11

Size: 1"

M N

Weight(kg): 0.05 Weight(gm): 50
Color: GRAY Material: PVC

Connection Socket x Fipt

Type Standard

M = 1-23/32 N = 3/32 L = 2-1/8

Injection Molded Dimension References:

G = (LAYING LENGTH) intersection of center lines to bottom of socket/thread; 90° elbows, tees, crosses; $\pm 1/32$ inch.

H = Intersection of center lines to face of fitting; 90° elbows tees, crosses; $\pm 1/32$ inch.

J = Intersection of center lines to bottom of socket/thread; 45° elbows; $\pm 1/32$ inch

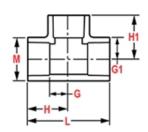
L = Overall length of fittings; $\pm 1/16$ inch.

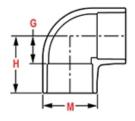
M = Outside diameter of socket/thread hub; $\pm 1/16$ inch.

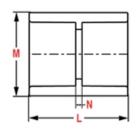
N = Socket bottom to socket bottom; couplings; $\pm 1/16$ inch.

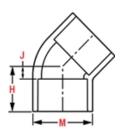
W = Height of cap; $\pm 1/16$ inch

Typical Molded Dimension References







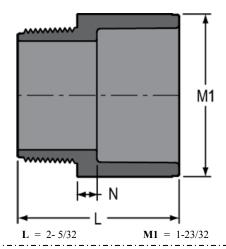


Part No: 836-010 Schedule 80 PVC & CPVC Adapter

Desc: 1 PVC MALE ADAPTER MPTXSOC SCH80

MSRP: 14.04 **Part Code:** 080

Weight(lbs): 0.093 Weight(kg): 0.042 Weight(gm): 42
Size: 1" Color: GRAY Material: PVC



Connection Mipt x Socket

Type Standard

Injection Molded Dimension References:

G = (LAYING LENGTH) intersection of center lines to bottom of socket/thread; 90° elbows, tees, crosses; $\pm 1/32$ inch.

 $\mathbf{N} = 7/32$

H = Intersection of center lines to face of fitting; 90° elbows tees, crosses; $\pm 1/32$ inch.

J = Intersection of center lines to bottom of socket/thread; 45° elbows; $\pm 1/32$ inch

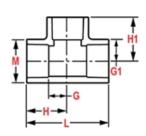
L = Overall length of fittings; $\pm 1/16$ inch.

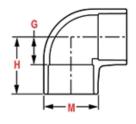
M = Outside diameter of socket/thread hub; $\pm 1/16$ inch.

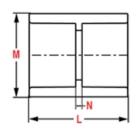
N = Socket bottom to socket bottom; couplings; $\pm 1/16$ inch.

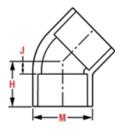
W = Height of cap; $\pm 1/16$ inch

Typical Molded Dimension References









Part No: 806-010S Schedule 80 PVC & CPVC Elbow

Desc: 1 PVC SWEEP ELL SOC SCH80

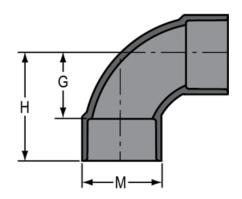
MSRP: 18.09 Part Code: 080

Weight(lbs): 0.196 Weight(kg): 0.089 Weight(gm): 89
Size: 1" Color: GRAY Material: PVC

Connection Sweep - Short

Angle 90°

Type Standard



G = 1-5/16

 $\mathbf{H} = 2 - 7/16$

M = 1-23/32

Injection Molded Dimension References:

G = (LAYING LENGTH) intersection of center lines to bottom of socket/thread; 90° elbows, tees, crosses; $\pm 1/32$ inch.

H = Intersection of center lines to face of fitting; 90° elbows tees, crosses; $\pm 1/32$ inch.

J = Intersection of center lines to bottom of socket/thread; 45° elbows; $\pm 1/32$ inch

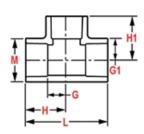
L = Overall length of fittings; $\pm 1/16$ inch.

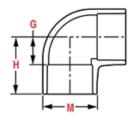
M = Outside diameter of socket/thread hub; $\pm 1/16$ inch.

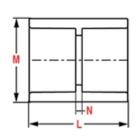
N = Socket bottom to socket bottom; couplings; $\pm 1/16$ inch.

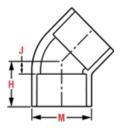
W = Height of cap; $\pm 1/16$ inch

Typical Molded Dimension References









Part No: 801-010 Schedule 80 PVC & CPVC Tee

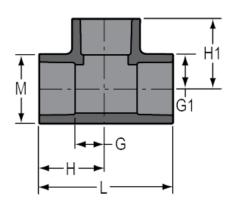
Desc: 1 PVC TEE SOC SCH80

MSRP: 12.86 **Part Code:** 080

Weight(lbs): 0.256 Weight(kg): 0.116 Weight(gm): 116
Size: 1" Color: GRAY Material: PVC

Connection Socket x Socket x Socket

Type Standard



 $\mathbf{G} = 7/8$

G1 = 7/8

 $\mathbf{H} = 2$

H1 = 2

L = 4

M = 1-3/4

Injection Molded Dimension References:

G = (LAYING LENGTH) intersection of center lines to bottom of socket/thread; 90° elbows, tees, crosses; $\pm 1/32$ inch.

H = Intersection of center lines to face of fitting; 90° elbows tees, crosses; $\pm 1/32$ inch.

J = Intersection of center lines to bottom of socket/thread; 45° elbows; $\pm 1/32$ inch

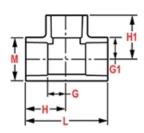
L = Overall length of fittings; $\pm 1/16$ inch.

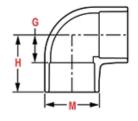
M = Outside diameter of socket/thread hub; $\pm 1/16$ inch.

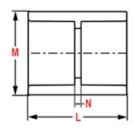
N = Socket bottom to socket bottom; couplings; $\pm 1/16$ inch.

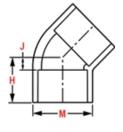
W = Height of cap; $\pm 1/16$ inch

Typical Molded Dimension References









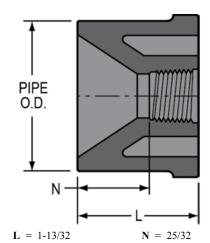
Part No: 838-128 Schedule 80 PVC & CPVC Bushing

Desc: 1X1/4 PVC RED BUSHING SPGXFPT SCH80

MSRP: 6.37 **Part Code:** 080

Weight(lbs): 0.066

Size:



Weight(kg): 0.03 Weight(gm): 30
Color: GRAY Material: PVC

Connection Spigot x Fipt **Type** Reduction

Injection Molded Dimension References:

G = (LAYING LENGTH) intersection of center lines to bottom of socket/thread; 90° elbows, tees, crosses; $\pm 1/32$ inch.

H = Intersection of center lines to face of fitting; 90° elbows tees, crosses; $\pm 1/32$ inch.

J = Intersection of center lines to bottom of socket/thread; 45° elbows; $\pm 1/32$ inch

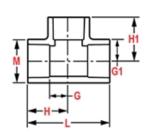
L = Overall length of fittings; $\pm 1/16$ inch.

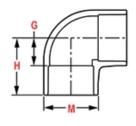
M = Outside diameter of socket/thread hub; $\pm 1/16$ inch.

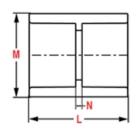
N = Socket bottom to socket bottom; couplings; $\pm 1/16$ inch.

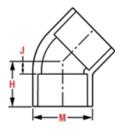
W = Height of cap; $\pm 1/16$ inch

Typical Molded Dimension References









Part No: 806-020S Schedule 80 PVC & CPVC Elbow

Desc: 2 PVC SWEEP ELL SOC SCH80

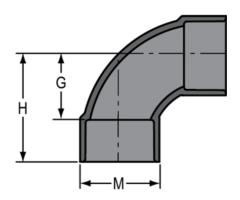
MSRP: 31.16 **Part Code:** 080

Weight(lbs): 0.644 Weight(kg): 0.292 Weight(gm): 292
Size: 2" Color: GRAY Material: PVC

Connection Sweep - Short

Angle 90°

Type Standard



G = 2-5/16

 $\mathbf{H} = 3-13/16$

M = 2-7/8

Injection Molded Dimension References:

G = (LAYING LENGTH) intersection of center lines to bottom of socket/thread; 90° elbows, tees, crosses; $\pm 1/32$ inch.

H = Intersection of center lines to face of fitting; 90° elbows tees, crosses; $\pm 1/32$ inch.

J = Intersection of center lines to bottom of socket/thread; 45° elbows; $\pm 1/32$ inch

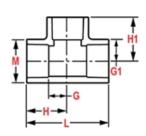
L = Overall length of fittings; $\pm 1/16$ inch.

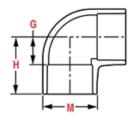
M = Outside diameter of socket/thread hub; $\pm 1/16$ inch.

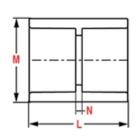
N = Socket bottom to socket bottom; couplings; $\pm 1/16$ inch.

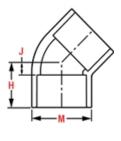
W = Height of cap; $\pm 1/16$ inch

Typical Molded Dimension References









Part No: 838-249 Schedule 80 PVC & CPVC Bushing

Desc: 2X1 PVC RED BUSH SPIGOTXFPT SCH80

MSRP: 18.08 Part Code: 080

Weight(lbs): 0.258

Size: 2"X1"

PIPE O.D.

L = 1-29/32

N = 1

Weight(kg): 0.117 Weight(gm): 117
Color: GRAY Material: PVC

Connection Spigot x Fipt **Type** Reduction

Injection Molded Dimension References:

G = (LAYING LENGTH) intersection of center lines to bottom of socket/thread; 90° elbows, tees, crosses; $\pm 1/32$ inch.

H = Intersection of center lines to face of fitting; 90° elbows tees, crosses; $\pm 1/32$ inch.

J = Intersection of center lines to bottom of socket/thread; 45° elbows; $\pm 1/32$ inch

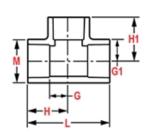
L = Overall length of fittings; $\pm 1/16$ inch.

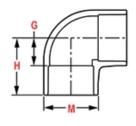
M = Outside diameter of socket/thread hub; $\pm 1/16$ inch.

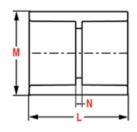
N = Socket bottom to socket bottom; couplings; $\pm 1/16$ inch.

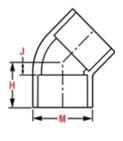
W = Height of cap; $\pm 1/16$ inch

Typical Molded Dimension References









APPENDIX G Injection Piping Testing Documentation

Hydrostatic Pressure Test Results Play Area Groundwater Infrastructure Installation Seattle, WA

Injection Well ID	Testing Time	Test Pressure	Hydrostatic Test Result
	(minutes)	(psi)	
A-1	32	50	Pass
A-2	30	50	Pass
A-3	30	50	Pass
A-4	30	50	Pass
A-5	35	50	Pass
B-1	35	48	Pass
B-2	30	50	Pass
B-3	32	50	Pass
B-4	30	50	Pass
B-5	30	50	Pass
B-6	30	50	Pass
B-7	30	50	Pass
B-8	30	50	Pass
C-1	30	50	Pass
C-2	30	49	Pass
C-3	30	47	Pass
C-4	30	52	Pass
C-5	30	50	Pass
C-6	30	50	Pass
C-7	30	50	Pass
C-8	30	52	Pass
C-9	30	47	Pass
C-10	35	50	Pass
C-11	37	51	Pass
C-12	32	49	Pass
D-1	30	50	Pass
D-2	30	50	Pass
D-3	30	45	Pass
D-4	30	50	Pass
D-5	30	50	Pass
D-6	30	47	Pass
D-7	30	50	Pass
D-8	30	50	Pass
D-9	30	50	Pass
D-10	30	48	Pass

Notes:

- ${\bf 1.}\ {\bf Hydrosatatic}\ pressure\ testing\ for\ injection\ piping\ performed\ per\ AWWA\ Standard\ C605.$
- 2. Per the AWWA Standard C605, all pipes tested held the test pressure with negligible pressure loss during the testing period.

APPENDIX HImport Fill Material Documentation



ICONM**982 CF

HOT MIX ASPHALT MIX DESIGN SUBMITTAL

Modified "B" / Commercial 1/2" HOT MIX ASPHALT (HMA)

Submittal Date:

Paving Contractor:

Hot Mix Asphalt Supplier:

1. AGGREGATE, BINDER AND ANTI-STRIP SOURCES

- A. First Mineral Aggregate Washington State D.O.T. Source #A-464 (ICON Materials Auburn resource)
- B. Second Mineral Aggregate Source A-464
- C. Blending Sand Source A-464
- D. Asphalt Cement PG 64--22 U.S. Oil & Refining Tacoma WA refinery

2. BLENDING RATIO

- A. First Mineral Aggregate (5/8" chips) = 16 %
- B. Second Mineral Aggregate (1/2" 0) = 69%
- C. Blending Sand 15%
- D. AC Content Most recent WSDOT design was for Contract (2014 Mix ID No. MD14009) asphalt binder content was set at 5.3% by weight of total mix. The proposed job mix formula is revised (finer) to accommodate the project's modified Class B specification. MD14009 is a substantially similar HMA design.

3. PROPOSED GRADATION

	•	Percent Passing by	•		
	Stockpile A	verages with blendi	ng ratios		Modified
	First Mineral	Second Mineral		Proposed	Historic Class B
Sieve	Aggregate (16%)	Aggregate (69%)	Blending	Target Gradation	Specification
Sizes	(5/8" chips)	(3/8" to 0)	Sand (15%)	(Job Mix Formula)	Limits *
3/4"	100	100	100	100	100
1/2"	78.5	100	100	97	95 - 100
3/8"	27.7	98.2	100	87	75 - 95
#4	2.8	67.3	100	62	46 - 70
#10	1.4	37	96	40	30 - 45
#40	1.1	15	50	18	11 - 26
#200	8.0	8.0	0.4	5.7	3.0 - 7.5

4. MISCELLANEOUS DATA

Sand Equivalent (Ave.) > 40

Fracture > 90%

Sand/Silt Ratio =

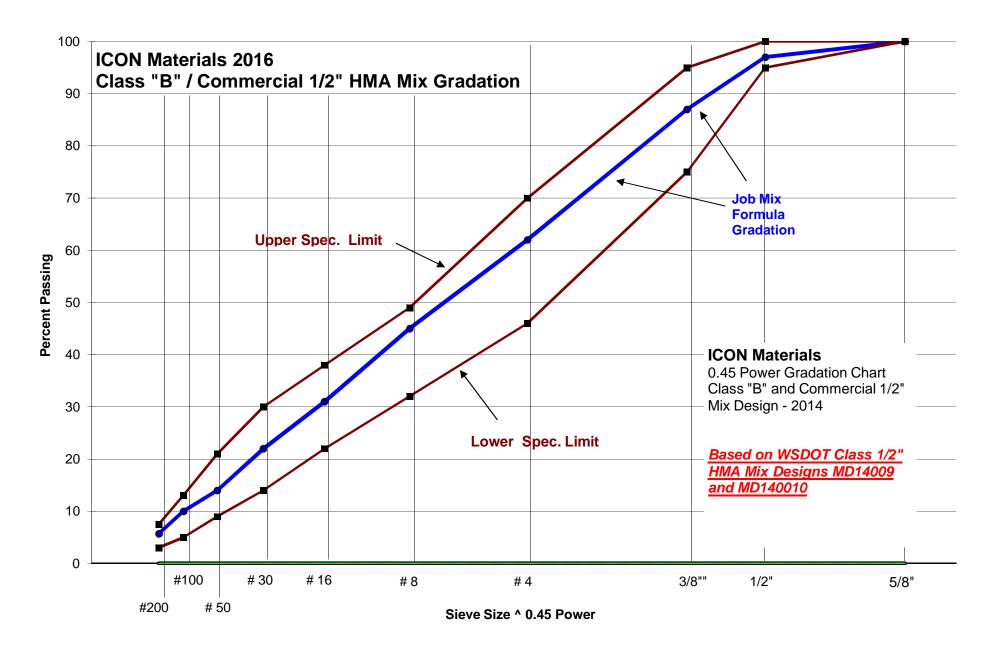
Ave. Rice Density (Historic) = 154.6 pcf

7.0

^{*} The gradation shown here is the historic WSDOT Class "B" specification (retired in 2002) shifted to a finer gradation than ICON's current Class 1/2" HMA. Gradation is finer on the 1/2" (+2%), 3/8" (+6%), #4 (+8%), #10 (+7%) and #40 (+1.5) sieves to establish a finer graded (modified) design. The proposed design maintains the basic structure of the Class "B" and/or Class 1/2" HMA design in a finer textured hot mix asphalt.

ICON Materials

Gradation Chart Sieve Sized Raised to 0.45 Power



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I have read, understood and I agree to all the above, including the Terms and Conditions on the reverse of, or accompanying this document, and incorporated by reference.

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Signature.

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I have read, understood and I agree to all the above, including the Terms and Conditions on the reverse of, or accompanying this document, and incorporated by reference. Signature.

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Fhave read, understood and I agree to all the above, including the Terms and Conditions on the reverse of, or accompanying this document, and incorporated by reference.

Leave Sales/Delivery Ticket Plant ADMIN Office: (800) 750-0123 Arrive Job PO Box 1730 Seattle, 39 98111 Start Pour Finish WEIGHMASTER CERTIFICATE THIS IS TO CERTIFY that the following described commodity was weighed, measured or counted by a weighmaster, whose signature is on this certificate who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 1270) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture. Pour Warning: Irritation to Skin and Eyes This product contains Portland Cement. Freshly mixed cement, mortar, grout or concrete may cause skin irritation and/or allergic reaction. Do not use without protective gear and clothing. Avoid any contact with skin. Wash exposed areas immediately with water. If cementitous materials get into the eye, rinse immediately and repeatedly with water and get prompt medical attention. Finish Wash Leave Job Weighmaster: Keep Away From Children This concrete is designed in accordance to American Concrete Institute Standards. Any water added to this design will be at purchasers risk. Materials hereby solo become property of purchaser at time of orgin. Calportland is not responsible for damages to property in the event that delivery is beyond curb line. Seller is not responsible for popouts or other imperfections resulting from reactive aggregates. Arrive Reasons for Delay Time Rev Counter on Plant Water added at customer's request Job not ready Time Slump on arrival Allowed Lack of Help Gals to full load Wheel Barrow Job Time Used Test Cylinders resulting from reactive aggregates. Taken: Pump Late/Problems Gals to 2/3 load **Excess** Time Other Gals to 1/3 load Map Page: Phone #: Ordered By: Cust. Proj#: Superplasticer Date/Time: Amt Added: 5/22/2017 1:16 PM Order #: Truck #: Driver Name: Order Type: P.O. Number Customer: JAMES JR WITHAM8314 107 1008242 GE0171490 Charg WYSER CONSTRUCTIONING Alley: Truck License #: Qty This Load: Qty Delivered: Qty Ordered: Plant: Prev. Truck #: Load#: Scheduled Arrival: 18.00 18.00 6.00 1:52:00 PM Ticket Notes: GASWORKS PLAY AREA MANUEL Delivery Address: 10-1031 801 N NORTH LAKE WAY SEATTLE, WA Changed **Unit Price Amount Product Description Product Code** UOM Quantity 9.00 ENV FEE 9990 CY 9.00 FIFL SURCKORGE 1.00 LD **Order Total:** Standing Time: Balance Forward: Ticket Total: Sales Tax: Date Disp Micket Num Ticket ID Time Driver User 13:16 5/22/17 Truck 134960 16142474 DPADON 2724 Load ID Mix Age Seq Mix Code Returned Load Size 134958 9.00 Actual Wat % Moisture % Var Batched Required Design Qty Material Description 205 gl 6.59% A -0.06% 27480 lb 27696 lb CLASS 2 BLD SAND 2055 lb 170 lb -0.51% 330 lb 16 FLYASH T I-II 0.88% 30 lb 1b CERT lot # 17-102 102.8 11 -1.05% 16 850.0 lb 300.0 lb WATER GATE #1 MALD DZ 5.0 oz DARVAIR1000 To Addy 15.6 Num Batches: 2 766 lb Design 0.833 Water/Cement 0.797 A . Actual 308.0 gl lotal: Design 323.6 gl Water in Truck: 0.0 lb Adjust Water: 0 0 lb / Load Trim Water:-13.0 lb/ CY 31766 lb Srusp: 6.00 in

THE CONTRACTOR OF THE PARTY OF

I have read, understood and I agree to all the above, including the Terms and Conditions on the reverse of, or accompanying this document, and incorporated by reference.

A888136

Signature.



Unit

g

Gradation Test With Sieve Chart Report

Plant 727A-DuPont WSDOT Pit # B-335

Product AWA8725-Building Sand **Specification** WSDOT Class 2 Sand



Procedure

Sample Information

Sample No 1874828959

Date Sampled 09/21/2016 13:42

Sampled By Jared Pedroza
Type Shipping

Method Stockpile

Resample

Split Sample

Wash Loss %

1.5

Test Note

Moisture %

7.7

STOCKPILE

Gradation Results

Wash Mass

575.30

Date Completed 09/21/2016 13:42

Dry Mass

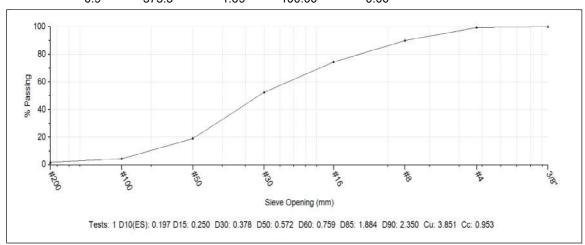
584.30

Moist Mass

629.50

Tested By Jared Pedroza

Sieve	Mass Retained	Cum Mass Retained	Ind % Retained	% Retained	% Passing	Target	Specification	Comment
3/8" (9.5mm)	0.0	0.0	0.0	0.0	100.0		99-100	
#4 (4.75mm)	3.0	3.0	0.5	0.5	99.5		95-100	
#8 (2.36mm)	54.6	57.6	9.3	9.9	90.1			
#16 (1.18mm)	91.7	149.3	15.7	25.6	74.4		45-80	
#30 (0.6mm)	129.5	278.8	22.2	47.7	52.3			
#50 (0.3mm)	194.9	473.7	33.4	81.1	18.9		10-30	
#100 (0.15mm)	86.0	559.7	14.7	95.8	4.2		2-10	
#200 (75µm)	14.7	574.4	2.52	98.31	1.69		0-2.5	
Pan	0.9	575.3	1.69	100.00	0.00			



StonemontQC 09/22/2016 CalPortland



DATE: May 1, 2017

System GEO-17-1490	
GEO Engineers Underground Injection System at Gas Works Park GEO-	

TONNAGE	SLIPS	13.81																13.81	
TYPE OF	MATERIALS	Builders Sand																Total Tons	
	DATE	5/1/2017											8		100			Sand	
LOCATION		Calportland							And the second of the second o									and the state of t	
ESTIMATED	QUANTITY	13.81 ton																	
LOAD	1	10:38 AM																	
MANIFEST	#	3204/1598971																	
TRUCKING	COMPANY	Wyser Construction																	
LOAD	NO.	_	2	3	4	5	9	7	8	6	10	11	12	13	14	15	16	17	18

703A AGG KENMORE 5/1/2017 10:38:28 A

6423 NE 175TH ST

6423 NE 175TH STREET KENMORE, WA 980284808

5 CALPORTLAND

PROJECT

13 81

1598971

DELIVERY TOTALS TODAY

13 81

1008242 WYSER CONSTRUCTION INC

Customer: 29957 AGG 2017 MASTER BID PRICING

Project: P.O.: GEO17-1490 Job Number: GEO17--1490

8725

ASTM C33 BUILD SAND Product: Delv To:

Weighmaster: MURPHY, DEBBIE SOURCE Man WT DATE 5/1/2017 10 38 25 AM TNE lbs Tons 87,260 43.63 39.58 Gross 5/1/2017 10:38 08 AM Man WT 59,640 29.82 27.05 Tare

NO:

LOAD

Сору

KENMORE VVA 98028 27,620 Net 13.81 12.53 ☐ Driver Off PRODUCT

Hauler: 999 FOB PICKUP **WYS30** WYSER #30 FLATBED Truck: REC'D BY DATE

\$0.00 FREIGHT \$0.00 ENV FEE \$0.00 TAX \$0.00 \$0.00 TOTAL



GEO Engineers Underground Injection System

DATE: May 11, 2017

	TONNAGE	SLIPS	14.03																14.03	
	TYPE OF	MATERIALS	Builders Sand																Total Tons	
		DATE	5/11/2017																Sand	
	LOCATION		Calportland																	
GEO-17-1490	ESTIMATED	QUANTITY	14.03 ton																	
s Park	LOAD	TIME	10:02 AM																	
at Gas Works Park	MANIFEST	#	3214/1606626																	
	TRUCKING	COMPANY	Z & S Trucking																	
·	LOAD	NO.	_	2	3	4	5	9	2	8	6	10	11	12	13	14	15	16	17	18

703A AGG KENMORE

5/11/2017 10:02:13

6423 NE 175TH STREET KENMORE, WA 980284808

C CALPORTLAND

1606626

NO:

Customer: Project:

1008242

WYSER CONSTRUCTION INC

29957

AGG 2017 MASTER BID PRICING

Job Number: geo17--1419

GEO17-1419

8725

ASTM C33 BUILD SAND

Сору

DELIVERY TOTALS TODAY PROJECT LOAD 14 03

QTY

27 84

Product: Delv To:

P.O.:

6423 NE 175TH ST

KENMORE

WA 98028 Weighmaster:

MURPHY, DEBBIE

DATE SOURCE 5/11/2017 10:02 10 A Man WT lbs Tons TNE 70,200 35.10 31.84 Gross 12/14/2016 11 43 15 A Man WT 42,140 21.07 19.11 Tare 28,060 Net 14.03 12.73 ☐ Driver Off

Hauler:

999

FOB PICKUP

Truck: WYS30T

WYSER CONSTRUCTION

REC'D BY

DATE

AMOUNT PRODUCT \$0.00 FREIGHT \$0.00 ENV FEE \$0.00 TAX \$0.00 TOTAL \$0.00



GEO Engineers Underground Injection System

DATE: May 15, 2017

	n e	at Gas Works Park	. Park	GEO-17-1490				
LOAD	TRUCKING	MANIFEST	_	ESTIMATED	LOCATION		TYPE OF	TONNAGE
NO.	COMPANY	#		QUANTITY		DATE	MATERIALS	SLIPS
	Wyser Construction	3217/1608634	9:57 AM	14.37 ton	Calportland	5/15/2017	Builders Sand	14.37
2								
3								
4								
5								
9								
7								
8								
6								
10								
11								
12								
13								
14								
15								
16								
17						Sand	Total Tons	14.37
18								

703A AGG KENMORE 5/15/2017 9:57.32 A

6423 NE 175TH STREET KENMORE, WA 980284808

C CALPORTLAND

NO:

1608634

440000044

GEO17-1490

Customer: Project:

1008242

WYSER CONSTRUCTION INC

29957

AGG 2017 MASTER BID PRICING

Job Number: GEO17-1490

DELIVERY TOTALS

Copy

PROJECT TODAY

QTY

42 21

Product: Delv To:

P.O.:

8725

ASTM C33 BUILD SAND

14 37

KENMORE

6423 NE 175TH ST

WA 98028 Weighmaster:

MURPHY, DEBBIE

DATE SOURCE 5/15/2017 9 57 29 AM Man WT 5/15/2017 9:57:21 AM Man WT

Driver Off

lbs 71,280 42,540

TNE 32.33 Gross 35.64 Tare 21.27 19.30 28,740 Net 13.04 14.37

Hauler:

999

FOB PICKUP

Truck:

WYS30T

WYSER CONSTRUCTION

REC'D BY

DATE

AMOUNT PRODUCT \$0.00 FREIGHT \$0.00 ENV FEE \$0.00 TAX \$0.00 TOTAL \$0.00



GEO Engineers Underground Injection System

DATE: June 14, 2017

7.67

TONNAGE **Builders Sand** MATERIALS Total Tons TYPE OF 6/14/2017 DATE Builders Sand Calportland LOCATION GEO-17-1490 |ESTIMATED | QUANTITY 7.67 ton 8:05 AM LOAD TIME at Gas Works Park MANIFEST 1629290 1 Wyser Const. #W25 TRUCKING COMPANY 2 5 4 6 4007 8 0 10 16 LOAD Š.

7.67

703A KENMORE 6/14/2017 8.05 40 A

6423 NE 175TH STREET KENMORE, WA 980284808 CALPORTLAND

NO:

1629290

LIFINANAL

Customer: 1008242 Project:

WYSER CONSTRUCTION INC

29957

AGG 2017 MASTER BID PRICING

8725

6EO-17-1490

ASTM C33 BUILD SAND

Job Number: 6EO-17-1490

DELIVERY TOTALS

Сору

TODAY QTY 7.67 4988

Product: Delv To:

KENMORE

P.O.:

6423 NE 175TH ST

WA 98028 Weighmaster:

MURPHY, DEBBIE

DATE	SOURCE	lbs	Tons	TNE	10 AL
6/14/2017 8 05 37 AM	Man WT	32,120	16.06	14.57	Gross
6/14/2017 7 55 12 AM	Man WT	16,780	8.39	7.61	Tare
☐ Driver Off		15,340	7.67	6.96	Net

Hauler:

999

FOB PICKUP

Truck:

WYS25S WYSER CONSTRUCTION

REC'D BY

DATE

PRODUCT \$0.00 FREIGHT \$0.00 ENV FEE \$0.00 TAX \$0.00 TOTAL \$0.00



GEO Engineers Underground Injection System

DATE: February 10, 2017

TONNAGE 13.95 13.95 SLIPS **Total Tons** MATERIALS Sand TYPE OF 2/10/2017 DATE Sand Calportland LOCATION GEO-17-1490 ESTIMATED 13.95 ton QUANTITY 7:40 AM LOAD TIME at Gas Works Park 3134/1544278 MANIFEST 1 Wyser Construction TRUCKING COMPANY 9 = 13 12 18 2 0 4 W 9 ω တ LOAD NO.

705A AGG SEATTLE 4002 WEST MARGINAL WAY SW SEATTLE, WA 981061208 2/10/2017 7:40:27 A Customer: :308242

NO: 1544278 Сору

Project: 29226 WYSER CONSTRUCTION INC

GEO 171490

AGG 2017 LIST PRICE

Job Number: GEO 171490

LOAD

TODAY PROJECT 13 95

DELIVERY TOTALS

Product:

8725

ASTM C33 BUILD SAND

13 95

Gross

Tare

Delv To:

SEATTLE

P.O.:

4002 WEST MARGINAL WAY SW

WA 98106 Weighmaster:

WEBB, JUDY

TNE

24.79

12.14

12.66 Net

SOURCE DATE lbs Tons 2/10/2017 7 40:24 AM Seattle Agg 54,660 27.33 2/3/2017 10:51:58 AM Seattle Agg 13.38 26,760 27,900 13.95 ☐ Driver Off

AMOUNT PRODUCT \$0.00 FREIGHT \$0.00 ENV FEE \$0.00

TAX TOTAL

\$0.00 \$0.00

Hauler: Truck:

999

FOB PICKUP

WYS30SS WYSER TRK 30 S

REC'D BY DATE GED 17 1490

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I DIS Droduct contain	ns Portland Co	mont Frachly	in and Eyes			WEIGHMAST	ER CERTIFICATE	04855	Finish		
protective gear and	clothing Avoi	and/or allerg	ic reaction. Do not	use with	out or counted by a	that the following development whose	ER CERTIFICATE ornia Only scribed commodity was signature is on this rescribed by Chapter a Business and Professio ds of the California Dep	s weighed, measur certificate who is	ed Finish		
nd repeatedly with	water and get	prompt med	et into the eye, rinse	immediat	tely Section 12700) of D by the Division of I	vision 5 of the Californi Measurement Standard	ia Business and Professio ds of the California Dep	 / (commencing w ons Code, administer partment of Food a 	ith red nd Wash		Me Landuckie Mastell tolk
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hir shift spo	Gals to 2/	3 load	Taken:	not re	esponsible for popouts or resulting from reactive	Other imperfections		Barrow Job	Time Use	d	
	Gals to 1/	3 load		ALC: THE				ate/Problems	Excess		
Date/Time:			Superplasticer	Cust.	Proj#:		Other Ordered By:	DL	Time		
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	008242				Order Type:	P.O. Number	Driver	Name:	Tri	uck #:	Order #:
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Scheduled Arrival:	li de grinske	Slump:	Load#:	Prev. Tru	ick #: Qty This Lo	d: Qty Delivered	d: Qty Ordered:	Plant:	Alley:	Truck Lice	nse #:
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Quantity 9.00	ORTH'L WA UOM Yd CY	AKE WI Proc 3739 9990	FIY duct Code	SEAT	Produc TLE TREN	Ticket Notes: GASWOR The Description The BACK		AREA	е	Amount	Change
Quantity 9.00	ORTH'L WA UOM Yd CY	AKE WI Proc 3739 9990	FIY duct Code	SEAT	Produc TLE TREN	Ticket Notes: GASWOR The Description The BACK		AREA	e	Amount	Change
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I have read, understood and I agree to all the above, including the Terms and Conditions on the reverse of, or accompanying this document, and incorporated by reference.

04 A875861

Signature.

CUSTOMER

		San The	Qu'		Had Sign		2			//	ich Street	10			17	15
	100 PM		1.0	Sale	es/Deli	ivery Ticket		I BILL ENGALD		.ofne I			Leav Plan		1)	25
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concrete may cause s protective gear and c immediately with water	clothing. Avoid er. If cementitou	any contact w is materials get	ith skin. Wash o	expos	sed areas	THIS IS TO CERTIF or counted by a recognized auth Section 12700) of I by the Division of Agriculture	ority of Division	hmaster, whose of accuracy, as p n 5 of the California	signature rescribed b Business ar	is on this by Chapter and Profession	certificate 7 (commen- ns Code, adn	who is a cing with ninistered	Finis Was			
and repeatedly with v	water and get	prompt medica y From Chi	al attention.			Agriculture. Weighmaster:	Meds	drement standard	is of the Car	шогна Бер	artment or	Food and	Leave .	Job	is agent.	
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and the first party of	Gals to 1/3	load	AT LEEN						-	Other		glank!	Exce			
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5/9/2017	12:07	PM	1-801-1		orlander b	5571	*	day was	ARON							
Customer:	008242	etjega kilovija 1984. – Polipisa				Order Type:	P.0	O. Number		Driver	Name:			Truck i	t:	Order #:
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Scheduled Arrival	t ja sense ne zani gi	Slump:	Load#:	Pre	ev. Truck	#: Qty This L	oad:	Qty Delivered	d: Qty O	rdered:	Plant:		Alley:	Tru	ck Licer	rse #:
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A St. S. Shedward &							李	Ticket Notes:								
						Charles of the St.	1	GASWOR	KS P	LAY	AREA					
1801 N N	ORTH L	AKE WA	IY		7			GASWOR	KS P	LAY	AREA	Till 1				
1801 N NO	ORTH L	AKE WA	Y.			K		GASWOR	IKS P	LAY	AREA					
1801 N NI SEATTLE,	DRTH L	AKE WA	y uct Code			Prod	uct D	GASWOR	KS P	LAY	AREA Un	it Price		Am	ount	Changed
1801 N NO SERTTLE, Quantity 3.50	UOM	AKE WA	y uct Code	III III	EATT			Description	FIL	LAY	Un	it Price		Am	ount	Changed
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I have read, understood and I agree to all the above, including the Terms and Conditions on the reverse of, or accompanying this document, and incorporated by reference. Signature.

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1			service to the service	ales/Del	ivery Ticket		uni e feni emiglio uni e feni emiglio uni uni un unione		Leave Plant	123	O
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I Inis product contai	ns Portland Cor	ment Frachly	in and Eyes	rtar, grout or	THIS IS TO CEPTIEW	WEIGHMAST California	ER CERTIFICATE proja Only	14161	Finish Pour		
protective gear and	clothing. Avoid	d any contact	t with skin. Wash ex	use without	or counted by a w recognized author Section 12700) of Div	reighmaster, whose ity of accuracy, as p ision 5 of the Californi	ER CERTIFICATE pria Only scribed commodity was signature is on this prescribed by Chapter a Business and Professior ds of the California Dep.	weighed, measured certificate who is a 7 (commencing with the Code, administered	Finish Wash		
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T. T.	CONTRACTOR OF	The late of the	Carry Things against	purcha	ser at time of orgin	alportland is not	Job not	ready	Time		
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WYE	ER CON		TIONING		Charge .	6E0171	490 BYR	ON TWATER			ruer#:
Scheduled Arriva	la de la constanta	Slump:	Load#:	Prev. Truck	4					304 ruck License	1417
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Fhave read, understood and I agree to all the above, including the Terms and Conditions on the reverse of, or accompanying this document, and incorporated by reference.

Leave Sales/Delivery Ticket Plant ADMIN Office: (800) 750-0123 Arrive Job PO Box 1730 Seattle, 39 98111 Start Pour Finish WEIGHMASTER CERTIFICATE THIS IS TO CERTIFY that the following described commodity was weighed, measured or counted by a weighmaster, whose signature is on this certificate who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 1270) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture. Pour Warning: Irritation to Skin and Eyes This product contains Portland Cement. Freshly mixed cement, mortar, grout or concrete may cause skin irritation and/or allergic reaction. Do not use without protective gear and clothing. Avoid any contact with skin. Wash exposed areas immediately with water. If cementitous materials get into the eye, rinse immediately and repeatedly with water and get prompt medical attention. Finish Wash Leave Job Weighmaster: Keep Away From Children This concrete is designed in accordance to American Concrete Institute Standards. Any water added to this design will be at purchasers risk. Materials hereby solo become property of purchaser at time of orgin. Calportland is not responsible for damages to property in the event that delivery is beyond curb line. Seller is not responsible for popouts or other imperfections resulting from reactive aggregates. Arrive Reasons for Delay Time Rev Counter on Plant Water added at customer's request Job not ready Time Slump on arrival Allowed Lack of Help Gals to full load Wheel Barrow Job Time Used Test Cylinders resulting from reactive aggregates. Taken: Pump Late/Problems Gals to 2/3 load **Fxcess** Time Other Gals to 1/3 load Map Page: Phone #: Ordered By: Cust. Proj#: Superplasticer Date/Time: Amt Added: 5/22/2017 1:16 PM Order #: Truck #: Driver Name: Order Type: P.O. Number Customer: JAMES JR WITHAM8314 107 1008242 GE0171490 Charg WYSER CONSTRUCTIONING Alley: Truck License #: Qty This Load: Qty Delivered: Qty Ordered: Plant: Prev. Truck #: Load#: Scheduled Arrival: 18.00 18.00 6.00 1:52:00 PM Ticket Notes: GASWORKS PLAY AREA MANUEL Delivery Address: 10-1031 801 N NORTH LAKE WAY SEATTLE, WA Changed **Unit Price Amount Product Description Product Code** UOM Quantity 9.00 ENV FEE 9990 CY 9.00 FIFL SURCKORGE 1.00 LD **Order Total:** Standing Time: Balance Forward: Ticket Total: Sales Tax: Date Disp Micket Num Ticket ID Time Driver User 13:16 5/22/17 Truck 134960 16142474 DPADON 2724 Load ID Mix Age Seq Mix Code Returned Load Size 134958 9.00 Actual Wat % Moisture % Var Batched Required Design Qty Material Description 205 gl 6.59% A -0.06% 27480 lb 27696 lb CLASS 2 BLD SAND 2055 lb 170 lb -0.51% 330 lb 16 FLYASH T I-II 0.88% 30 lb 1b CERT lot # 17-102 102.8 11 -1.05% 16 850.0 lb 300.0 lb WATER GATE #1 MALD DZ 5.0 oz DARVAIR1000 To Addy 15.6 Num Batches: 2 766 lb Design 0.833 Water/Cement 0.797 A . Actual 308.0 gl lotal: Design 323.6 gl Water in Truck: 0.0 lb Adjust Water: 0 0 lb / Load Trim Water:-13.0 lb/ CY 31766 lb Srusp: 6.00 in

THE CONTRACTOR OF THE PARTY OF

I have read, understood and I agree to all the above, including the Terms and Conditions on the reverse of, or accompanying this document, and incorporated by reference.

A888136

Signature.





ADDED WORK

Quoted to: Wyser

Attn:

Darren Ness

Address:

206-678-5122

Phone: Email:

darren@wyserdirt.com

Quote Date:

5/19/2017

Estimator:

Shane Olson

Phone:

206-255-3130

Email:

Shane@nwasphalt.com

Project:

Gas Works Park

Location:

2101 N Northlake Way

Seattle 98103

QTY.	UNITS	DESCRIPTION	\$/UNIT	AMOUNT
200	SF	ITEM 1.)Added Patching Pave with 3" of 3/8" asphalt. Bobcat and hand work.	LS	\$ 2,100.00
		Please note: Prices for above stated items only. Prices are based on the current cost of liquid asphalt and are subject to change. Prices include _1_ pave mob(s). Additional mobs are \$2,500 each. Prices specifically exclude traffic control, permitting and testing.	TOTAL	\$ 2,100.00

SALES TAX WILL APPLY UNLESS CURRENT RESELLER PERMIT IS ON FILE
TERMS & EXCLUSIONS ARE LISTED ON LAST PAGE. ACCEPTANCE OF THIS QUOTATION ACCEPTS THESE TERMS & EXCLUSIONS.

Are you a contractor?	Yes	No	Contractor Lic. #	
Do you require retention withheld?	Yes	No	Retention %	
Are you exempt from sales tax?	Yes	No	Resale Permit #	



DATE: May 1, 2017

System GEO-17-1490	
GEO Engineers Underground Injection System at Gas Works Park GEO-	

TONNAGE	SLIPS	13.81																13.81	
TYPE OF	MATERIALS	Builders Sand																Total Tons	
	DATE	5/1/2017											8					Sand	
LOCATION		Calportland																	
ESTIMATED	QUANTITY	13.81 ton																	
LOAD	1	10:38 AM																	
MANIFEST	#	3204/1598971																	
TRUCKING	COMPANY	Wyser Construction																	
LOAD	NO.	_	2	3	4	5	9	7	80	0	10	11	12	13	14	15	16	17	18

		3							
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Gross	39.58	2noT £3.£4	sdi 092,78	Man VVT SOURCE	DTAD MA 25 88 01 \(\text{Tr02\(\text{I}\\				
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СИАЈТЯ	CALPO				80848S086 AW	KENWOBE'		A 82:88	5/1/2017 10:
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GEO Engineers Underground Injection System

DATE: May 11, 2017

	TONNAGE	SLIPS	14.03																14.03	
	TYPE OF	MATERIALS	Builders Sand																Total Tons	
		DATE	5/11/2017																Sand	
	LOCATION		Calportland																	
GEO-17-1490	ESTIMATED	QUANTITY	14.03 ton																	
s Park	LOAD	TIME	10:02 AM																	
at Gas Works Park	MANIFEST	#	3214/1606626																	
	TRUCKING	COMPANY	Z & S Trucking																	
·	LOAD	NO.	_	2	3	4	5	9	2	8	6	10	11	12	13	14	15	16	17	18

703A AGG KENMORE

5/11/2017 10:02:13

6423 NE 175TH STREET KENMORE, WA 980284808

C CALPORTLAND

1606626

NO:

Customer: Project:

1008242

WYSER CONSTRUCTION INC

29957

AGG 2017 MASTER BID PRICING

Job Number: geo17--1419

GEO17-1419

8725

ASTM C33 BUILD SAND

Сору

DELIVERY TOTALS TODAY PROJECT LOAD 14 03

QTY

27 84

Product: Delv To:

P.O.:

6423 NE 175TH ST

KENMORE

WA 98028 Weighmaster:

MURPHY, DEBBIE

DATE SOURCE 5/11/2017 10:02 10 A Man WT lbs Tons TNE 70,200 35.10 31.84 Gross 12/14/2016 11 43 15 A Man WT 42,140 21.07 19.11 Tare 28,060 Net 14.03 12.73 ☐ Driver Off

Hauler:

999

FOB PICKUP

Truck: WYS30T

WYSER CONSTRUCTION

REC'D BY

DATE

AMOUNT PRODUCT \$0.00 FREIGHT \$0.00 ENV FEE \$0.00 TAX \$0.00 TOTAL \$0.00



GEO Engineers Underground Injection System

DATE: May 15, 2017

	n e	at Gas Works Park	. Park	GEO-17-1490				
LOAD	TRUCKING	MANIFEST	_	ESTIMATED	LOCATION		TYPE OF	TONNAGE
NO.	COMPANY	#		QUANTITY		DATE	MATERIALS	SLIPS
	Wyser Construction	3217/1608634	9:57 AM	14.37 ton	Calportland	5/15/2017	Builders Sand	14.37
2								
ဇ								
4								
5								
9								
7								
8								
6								
10								
11								
12								
13								
14								
15								
16								
17						Sand	Total Tons	14.37
18								

703A AGG KENMORE 5/15/2017 9:57.32 A

6423 NE 175TH STREET KENMORE, WA 980284808

C CALPORTLAND

NO:

1608634

440000044

GEO17-1490

Customer: Project:

1008242

WYSER CONSTRUCTION INC

29957

AGG 2017 MASTER BID PRICING

Job Number: GEO17-1490

DELIVERY TOTALS

Copy

PROJECT TODAY

QTY

42 21

Product: Delv To:

P.O.:

8725

ASTM C33 BUILD SAND

14 37

KENMORE

6423 NE 175TH ST

WA 98028 Weighmaster:

MURPHY, DEBBIE

DATE SOURCE 5/15/2017 9 57 29 AM Man WT 5/15/2017 9:57:21 AM Man WT

Driver Off

lbs 71,280 42,540

TNE 32.33 Gross 35.64 Tare 21.27 19.30 28,740 Net 13.04 14.37

Hauler:

999

FOB PICKUP

Truck:

WYS30T

WYSER CONSTRUCTION

REC'D BY

DATE

AMOUNT PRODUCT \$0.00 FREIGHT \$0.00 ENV FEE \$0.00 TAX \$0.00 TOTAL \$0.00



GEO Engineers Underground Injection System

DATE: June 14, 2017

7.67

TONNAGE **Builders Sand** MATERIALS Total Tons TYPE OF 6/14/2017 DATE Builders Sand Calportland LOCATION GEO-17-1490 |ESTIMATED | QUANTITY 7.67 ton 8:05 AM LOAD TIME at Gas Works Park MANIFEST 1629290 1 Wyser Const. #W25 TRUCKING COMPANY 2 5 4 6 4007 8 0 10 16 LOAD Š.

7.67

703A KENMORE 6/14/2017 8.05 40 A

6423 NE 175TH STREET KENMORE, WA 980284808 CALPORTLAND

NO:

1629290

LIFINANAL

Customer: 1008242 Project:

WYSER CONSTRUCTION INC

29957

AGG 2017 MASTER BID PRICING

8725

6EO-17-1490

ASTM C33 BUILD SAND

Job Number: 6EO-17-1490

DELIVERY TOTALS

Сору

TODAY QTY 7.67 4988

Product: Delv To:

KENMORE

P.O.:

6423 NE 175TH ST

WA 98028 Weighmaster:

MURPHY, DEBBIE

DATE	SOURCE	lbs	Tons	TNE	10 AL
6/14/2017 8 05 37 AM	Man WT	32,120	16.06	14.57	Gross
6/14/2017 7 55 12 AM	Man WT	16,780	8.39	7.61	Tare
☐ Driver Off		15,340	7.67	6.96	Net

Hauler:

999

FOB PICKUP

Truck:

WYS25S WYSER CONSTRUCTION

REC'D BY

DATE

PRODUCT \$0.00 FREIGHT \$0.00 ENV FEE \$0.00 TAX \$0.00 TOTAL \$0.00



GEO Engineers Underground Injection System

DATE: February 10, 2017

TONNAGE 13.95 13.95 SLIPS **Total Tons** MATERIALS Sand TYPE OF 2/10/2017 DATE Sand Calportland LOCATION GEO-17-1490 ESTIMATED 13.95 ton QUANTITY 7:40 AM LOAD TIME at Gas Works Park 3134/1544278 MANIFEST 1 Wyser Construction TRUCKING COMPANY 9 = 13 12 18 2 0 4 W 9 ω တ LOAD NO.

705A AGG SEATTLE 4002 WEST MARGINAL WAY SW SEATTLE, WA 981061208 2/10/2017 7:40:27 A Customer: :308242

NO: 1544278 Сору

Project: 29226 WYSER CONSTRUCTION INC

GEO 171490

AGG 2017 LIST PRICE

Job Number: GEO 171490

LOAD

TODAY PROJECT 13 95

DELIVERY TOTALS

Product:

8725

ASTM C33 BUILD SAND

13 95

Gross

Tare

Delv To:

SEATTLE

P.O.:

4002 WEST MARGINAL WAY SW

WA 98106 Weighmaster:

WEBB, JUDY

TNE

24.79

12.14

12.66 Net

SOURCE DATE lbs Tons 2/10/2017 7 40:24 AM Seattle Agg 54,660 27.33 2/3/2017 10:51:58 AM Seattle Agg 13.38 26,760 27,900 13.95 ☐ Driver Off

AMOUNT PRODUCT \$0.00 FREIGHT \$0.00 ENV FEE \$0.00

TAX TOTAL

\$0.00 \$0.00

Hauler: Truck:

999

FOB PICKUP

WYS30SS WYSER TRK 30 S

REC'D BY DATE