ORE 444H

Field Logs of Boreholes for Nested Piezometers, Noreste Park Site

Nor Este Prepared for:

City of Albuquerque

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The following borehole logs were completed for the piezometer nest drilled at the Noreste Park site. This site is going to be used to monitor shallow to intermediate aquifer characteristics in the Santa Fe Group. Historical data for this well are summarized in Table 1. The attached logs describe a sample by sample lithology, borehole geophysical information, and interpretations of the geophysical and hydrogeologic data. The lithological descriptions were made by visual analysis of mud-rotary cuttings taken from the well head. Drilling methods prevent a complete evaluation of the finer grained fraction, which tends to be washed out by the drilling fluids. No sieve testing was conducted. Field lithologic descriptions are based on the following criteria:

- 1. Major textural class;
- 2. Estimated grain size distribution by major textural class:
 - a. silt/clay (0.05 mm)
 - b. sand (0.05-2 mm)
 - c. gravel (>2 mm)
- 3. Sorting and range of grain and clast size.
- 4. Grain/clast shape
- 5. Clast composition(s) and their relative abundance (listed in order of decreasing abundance)
- 6. Color
- 7. Other characteristics and driller's comments.

Based on nomenclature developed for the alluvial deposits of the Rio Grande Rift basins in New Mexico (Hawley and Haase, 1992) hydrogeologic units have been delineated and shown on Figure 4. The system used describes major hydrostratigraphic units (RA, TA, VA, PA, USF, MSF, LSF) and subunit lithofacies (I to X). These classifications are baced on a thorough synthesis of lithologic data, geographic location within the basin, and interpretations made from data of neighboring wells. A summary of lithologic descriptions, hydrostratigraphic interpretations and geophysical responses are illustrated on the attached stratigraphic column (Figure 2). Also attached are a detailed log of sample descriptions (Table 2), a site location map (Figures 1), a summary of major textural units (Table 3), a summary of lithofacies (Table 4), a summary of hydrostratigraphic units (Table 5), core sample descriptions (Tables 5 and 6), and a photolog of cuttings samples (Attachment A).

- 3	Sieve op	ming	in inches			U.S. #	inciend slow	re numb	ers			
-	3 2 1	1	1 11	4	10	20		i i				
	-	G	RAVEL		1		SAND				SILT	-
	coarse		medium	fine	course		medium	fine		coerse	ine	CLAY
		111	un	111	1		11	-		L 1	1	
0	50	20	*0		5	1 0	5042 0	25 0	1 0074	0.05 0.0	2 001 0005	0002 00

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Table 1. Historical Data

Name:	Noreste Park Well (NEP)
Location:	Section 18, T11N, R4E (11N.4E.18.222) Bernalillo County, Alameda 7.5' quadrangle Latitude: 35° 11' 14" Longitude: 106° 33' 06"
Elevation:	5,105 feet (1556 m)
Drilling Method:	Mud Rotary
Drillers:	Dan Sweeney, assisted by Brian Bretz and Todd Hunter
Drilling Start:	April 11, 1997
Drilling Completion:	May 2, 1997
Sample Interval:	5 feet
Screened Intervals:	530-598 feet, 1183-1188 feet, and 1515-1520 feet
Total Depth:	1527 feet -
Water Table:	540 feet below surface (Elevation: 4565 feet)
Sample Logging:	P.B. Jackson (NMBMMR) J.W. Hawley (NMBMMR, retired)
Geophysical [†] ogging:	Century Geophysical Corporation
Geophysical Logs:	Caliper, Acoustic, Spontaneous Potential (SP), Resistivity (16 and 64 inch coil spacing), Natural Gamma, Induction Resistivity, and Induction Conductivity
Log Synthesis:	P.B. Jackson & S.D. Connell (NMBMMR)

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 Table 2: Description and interpretation of major textural units, Noreste Park monitoring well (City of Albuquerque). Color represents that of moist sediment.

Depth (ft)	Description
0-120	Mixture of granite dominated coarse-grained sand and gravel with some silt and clay. Reddish gray sand and gravel (10YR 6/1) with yellowish red (5YR 5/6) silt/clay. Higher gamma ray response (\approx 67-cps ±) may reflect a greater proportion of potassium feldspar (from granite) than underlying units. <i>Piedmont slope alluvium (hydrostratigraphic unit PA)</i> .
120-220	Coarse-grained sand with a sand-gravel interlayer at \approx 145 feet, minor silt. Reddish gray (10YR 6/1). Above average gamma ray response suggests a granite rich source area. Top of the Upper Santa Fe unit, coarse-grained grained piedmont slope alluvial deposits derived from the Sandia Mountains (hydrostratigraphic unit USF-1).
220-255	Clean gravel. Reddish gray (10YR 6/1). Gamma Ray response decreases to \approx 30-40 cps at 220 feet suggesting one of the two following scenarios: : 1) a shift in deposition environment from an piedmont slope to more axial river deposition environment or 2) inter-fingering of ancestral Rio Grande and paleo Juan Tabo deposits at the confluence of these two systems. Inter-fingering piedmont slope alluvium and ancestral Rio Grande deposits with some influx of paleo Juan Tabo fluvial deposits (hydrostratigraphic unit USF-2).
255-515	Fine to coarse-grained sand interbedded with silt, minor gravel. Brown to dark gray/brown (7.5YR 5/2 to 7.5YR 4/2-4/0). Inter-fingering piedmont slope alluvium and ancestral Rio Grande deposits with some influx of paleo Juan Tabo fluvial deposits (hydrostratigraphic unit USF-2).
515-640	Silty fine to coarse-grained sand and silty/clayey gravel. Yellowish brown to dark yellowish brown (10YR 5/4-44). Inter-fingering piedmont slope alluvium and ancestral Rio Grande deposits with some influx of paleo Juan Tabo fluvial deposits. (hydrostratigraphic unit USF-2).
640-815	Silty sand intercalated with coarse-grained sand. Note: From 800-815 there is a sandy clay/silt lens. Yellowish brown to brownish gray (10YR 5/4-6/2). Ancestral Rio Grande deposits (hydrostratigraphic unit USF-2).
815-880	Medium to coarse-grained sand and gravel. Gray to reddish brown/gray (10YR 6/1 to 5YR 5/3-5/1). Obsidian is present between 840-880 feet. River-valley and basin-floor fluvial channel deposits. Ancestral Rio Grande deposits (hydrostratigraphic unit USF-2).
880-1370	Intercalated silt/clay and medium to very coarse-grained sand with minor gravel lenses. Gray/reddish gray (10YR 6/1 to 5YR 5/3) to brown (7.5YR 4/4). Obsidian present from 1165-1190 feet. From 1280-1350 feet there is a noticeable volcanic rich component in the gravel lenses. Basin floor fluvial (axial river) and piedmont slope deposits. Ancestral Rio Grande deposits (hydrostratigraphic unit USF-2).
1370-1455	Silty/clayey fine to coarse-grained sand and sandy clay. Brown (7.5YR 4/4) to reddish gray (5YR 5/3). Middle Santa Fe subunit 2: basin-floor fluvial-alluvial-lacustrine-eolian deposits inter-fingering with piedmont slope alluvium deposits of Middle Santa Fe subunit 1 (hydrostratigraphic unit MSF-2).
1455-1527	Clayey medium to coarse-grained sand. Brown (7.5YR 4/4) to reddish gray (5YR 5/3). Basin floor fluvial deposits (hydrostratigraphic unit MSF-2).

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Table 3: Summary of lithofacies (modified from Hawley and Haase, 1992) assigned to major textural units in the Noreste Park monitoring well.

Lithofacies	Dominant Textural Classes	Dominant Deposition Setting
I	Sand and gravel	River valley and basin-floor fluvial channel and floodplain deposits
п	Sand with lenses of pebbly sand, silty sand and silty clay	Basin-floor fluvial and local eolian deposits
ш	Interbedded sand, silty sand, and silty clay with minor lenses of pebbly sand	Basin-floor alluvial and playa lake deposits
v	Gravelly sand-silt-clay mixtures	Distal to medial piedmont-slope alluvial fan or terrace deposits

Table 4: Summary of the hydrostratigraphic units observed at the Noreste Park site.

Unit	Description
PA	Piedmont-slope alluvium: Deposited as coalescent fans prograding basinward from 1 fronts on the eastern and southwestern margins of the Albuquerque Basin.
USF-1	Upper Santa Fe subunit 1: Coarse-grained alluvium derived from Sandia, Manzanita, and Manzano uplifts.
USF-2	Upper Santa Fe subunit 2: Ancestral Rio Grande and interbedded fine to medium grained alluvial-

Iacustrine-&/or-eolian basin-floor deposits.
 MSF- Middle Santa Fe subunit 2: Mixed alluvial-lacustrine-eolian sandy to fine-grained basin-floor

2 deposits.

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Sample No.	Depth Interval (ft)	Description
NEP 1	0-5	Coarse-grained Sand (85% sand, 10% gravel, 5% silt), moderately sorted, subangular to subrounded grains. Reddish gray (10YR 6/1) with yellowish red silt coatings (5YR 5/6). Granite, quartzite, and chert clasts.
NEP 2	5-10	Coarse-grained Sand (85% sand, 10% gravel, 5% silt), moderately sorted, subangular to subrounded grains. Reddish gray (10YR 6/1) with yellowish red silt coatings (5YR 5/6). Granite, quartzite, and chert clasts.
NEP 3	10-15	Coarse-grained Sand (85% sand, 10% gravel, 5% silt), moderately sorted, subangular to subrounded grains. Reddish gray (10YR 6/1) with yellowish red silt coatings (5YR 5/6). Granite, quartzite, and chert clasts.
NEP 4	15-20	Gravel (75% gravel, 20% sand, 5% silt/clay), moderately to well sorted, subangular gravel grains, subangular to subrounded sand grains. Reddish gray (10YR 6/1) with yellowish red silt coatings (5YR 5/6). Granite, quartzite, and chert clasts.
NEP 5	20-25	Gravel (75% gravel, 20% sand, 5% silt/clay), moderately to well sorted, subangular gravel grains, subangular to subrounded sand grains. Reddish gray (10YR 6/1) with yellowish red silt coatings (5YR 5/6). Granite, quartzite, and chert clasts.
NEP 6	25-30	Pebbly coarse-grained sand (80% sand, 15% gravel, 5% silt), moderately to well sorted, subangular to subrounded. Reddish gray (10YR 6/1) with yellowish red silt coatings (5YR 5/6). Granite, quartzite, and chert clasts.
NEP 7	30-35	Pebbly coarse-grained sand (80% sand, 15% gravel, 5% silt), moderately to well sorted, subangular to subrounded. Reddish gray (10YR 6/1) with yellowish red silt coatings (5YR 5/6). Granite, quartiste, and chert clasts.
NEP 8	35-40	Gravel (75% gravel, 20% sand, 5% silt/clay), moderately to well sorted, subangular gravel grains, subangular to subrounded sand grains. Reddish gray (10YR 6/1) with yellowish red silt coatings (5YR 5/6). Granite, quartzite, and chert clasts.
NEP 9	40-45	Gravel (75% gravel, 20% sand, 5% silt/clay), moderately to well sorted, subangular gravel grains, subangular to subrounded sand grains. Reddish gray (10YR 6/1) with yellowish red silt coatings (5YR 5/6). Granite, quartzite, and chert clasts.
NEP 10	45-50	Pebbly coarse-grained sand and gravel (55% sand, 40% gravel, 5% silt), moderately sorted, subangular to subrounded grains. Reddish gray (10YR 6/1) with yellowish red silt coatings (5YR 5/6). Granite, quartzite, and chert clasts.
NEP 11	50-55	Pebbly coarse-grained sand and gravel (55% sand, 40% gravel, 5% silt), moderately sorted, subangular to subrounded grains. Reddish gray (10YR 6/1) with yellowish red silt coatings (5YR 5/6). Granite, quartzite, and chert clasts.
NEP 12	55-60	Clayey/silty coarse-grained sand and gravel (35% sand, 35% gravel, 30% clay/silt), moderately sorted, subangular to subrounded grains. Reddish gray (10YR 6/1) with yellowish red silt coatings (5YR 5/6). Granite, quartzite, and chert clasts.
NEP 13	60-65	Medium-grained sand and gravel (65% sand, 30% gravel, 5% silt), moderately sorted, subangular to subrounded grains. Reddish gray (10YR 6/1) with yellowish red silt coatings (5YR 5/6). Granite, quartzite, and chert clasts.

Table 4: Sample Descriptions of Cutting from the Noreste Park Well Site.

NEP 14	65-70	Medium-grained sand (80% sand, 15% gravel, 5% silt), moderately sorted, subangular to subrounded grains. Reddish gray (10YR 6/1) with yellowish red silt coatings (5YR 5/6). Granite, quartzite, and chert clasts.
NEP 15	70-75	Medium to coarse-grained sand and gravel (45% sand, 45% gravel, 10% silt), moderately sorted, subangular to subrounded grains. (Note: Quartzite grains are the most rounded.) Reddish gray (10YR 6/1) with yellowish red silt coatings (5YR 5/6). Granite, quartzite, and chert clasts.
NEP 16	75-80	Medium to coarse-grained sand and gravel (45% sand, 45% gravel, 10% silt), moderately sorted, subangular to subrounded grains. Reddish gray (10YR 6/1) with yellowish red silt coatings (5YR 5/6). Granite, quartzite, and chert clasts.
NEP 17	80-85	Medium to coarse-grained sand and gravel (45% sand, 45% gravel, 10% silt), moderately sorted, subangular to subrounded grains. Reddish gray (10YR 6/1) with yellowish red silt coatings (5YR 5/6). Granite, quartzite, and chert clasts.
NEP 18	85-90	Medium to coarse-grained sand and gravel (45% sand, 45% gravel, 10% silt), moderately sorted, subangular to subrounded grains. Reddish gray (10YR 6/1) with yellowish red silt coatings (5YR 5/6). Granite, quartzite, and chert clasts.
NEP 19	90-95	Medium to coarse-grained sand and gravel (45% sand, 45% gravel, 10% silt), moderately sorted, subangular to subrounded grains. Reddish gray (10YR 6/1) with yellowish red silt coatings (5YR 5/6). Granite, quartzite, and chert clasts.
NEP 20	95-100	Medium to coarse-grained sand and gravel (45% sand, 45% gravel, 10% silt), moderately sorted, subangular to subrounded grains. Reddish gray (10YR 6/1) with yellowish red silt coatings (5YR 5/6). Granite, quartzite, and chert clasts.
NEP 21	100-105	Medium to coarse-grained sand and gravel (45% sand, 45% gravel, 10% silt), moderately sorted, subangular to subrounded grains. Reddish gray (10YR 6/1) with yellowish red silt coatings (5YR 5/6). Granite, quartzite, and chert clasts.
NEP 22	105-110	Medium to coarse-grained sand and gravel (45% sand, 45% gravel, 10% silt), moderately sorted, subangular to subrounded grains. Reddish gray (10YR 6/1) with yellowish red silt coatings (5YR 5/6). Granite, quartzite, and chert clasts.
NEP 23	110-115	Medium to coarse-grained sand and gravel (45% sand, 45% gravel, 10% silt), moderately sorted, subangular to subrounded grains. Reddish gray (10YR 6/1) with yellowish red silt coatings (5YR 5/6). Granite, quartzite, and chert clasts.
NEP 24	115-120	Silty medium to coarse-grained sand (60% sand, 30% silt, 10% gravel), moderately to well sorted, subangular to subrounded grains. Reddish gray (10YR 6/1) with yellowish red silt coatings (5YR 5/6). Granite, quartzite, and chert clasts.
NEP 25	120-125	Coarse-grained sand and gravel (55% gravel, 45% sand), moderately to well sorted, subangular to subrounded grains. Reddish gray (10YR 6/1). Granite, quartzite, chert clasts, and trace intermediate volcanics.
NEP 26	125-130	Coarse-grained sand and gravel (55% gravel, 45% sand), moderately *2 well sorted, subangular to subrounded grains. Reddish gray (10YR 6/1). Granite, quartzite, chert clasts, and trace intermediate volcanics.
NEP 27	130-135	Coarse-grained sand and gravel (55% gravel, 45% sand), moderately to well sorted, subangular to subrounded grains. Reddish gray (10YR 6/1). Granite, quartzite, chert clasts, and trace intermediate volcanics.

NEP 28	135-140	Coarse-grained sand and gravel (55% gravel, 45% sand), moderately to well sorted, subangular to subrounded grains. Reddish gray (10YR 6/1). Granite, guartzite, chert clasts, and trace intermediate volcanics.
NEP 29	140-145	Coarse-grained sand and gravel (55% gravel, 45% sand), moderately to well sorted, subangular to subrounded grains. Reddish gray (10YR 6/1). Granite, quartzite, chert clasts, and trace intermediate volcanics.
NEP 30	145-150	Medium to coarse-grained sand (90% sand, 10% gravel), well sorted, subangular to subrounded grains. Reddish gray to dark gray (10YR 6/1 to 7.5YR 4/1). Granite, quartzite, chert, sandstone, and basalt. (Note: Over the interval of 150-220 feet, sample color darkens and the angularity of grains increases with depth due an increase in the concentration of basalt.)
NEP 31	150-155	Medium to coarse-grained sand (90% sand, 10% gravel), well sorted, subangular to subrounded grains. Reddish gray to dark gray (10YR 6/1 to 7.5YR 4/1). Granite, quartzite, chert, sandstone, and basalt.
NEP 32	155-160	Medium to coarse-grained sand (90% sand, 10% gravel), well sorted, subangular to subrounded grains. Reddish gray to dark gray (10YR 6/1 to 7.5YR 4/1). Granite, quartzite, chert, sandstone, and basalt.
NEP 33	160-165	Medium to coarse-grained sand (90% sand, 10% gravel), well sorted, subangular to subrounded grains. Reddish gray to dark gray (10YR 6/1 to 7.5YR 4/1). Granite, quartzite, chert, sandstone, and basalt.
NEP 34	165-170	Medium to coarse-grained sand (90% sand, 10% gravel), well sorted, subangular to subrounded grains. Reddish gray to dark gray (10YR 6/1 to 7.5YR 4/1). Granite, quartzite, chert, sandstone, and basalt.
NEP 35	170-175	Medium to coarse-grained sand (90% sand, 10% gravel), well sorted, subangular to subrounded grains. Reddish gray to dark gray (10YR 6/1 to 7.5YR 4/1). Granite, quartzite, chert, sandstone, and basalt.
NEP 36	175-180	Medium to coarse-grained sand (90% sand, 10% gravel), well sorted, subangular to subrounded grains. Reddish gray to dark gray (10YR 6/1 to 7.5YR 4/1). Granite, quartzite, chert, sandstone, and basalt.
NEP 37	180-185	Medium to coarse-grained sand (90% sand, 10% gravel), well sorted, subangular to subrounded grains. Reddish gray to dark gray (10YR 6/1 to 7.5YR 4/1). Granite, quartzite, chert, sandstone, and basalt.
NEP 38	185-190	Medium to coarse-grained sand (90% sand, 10% gravel), well sorted, subangular to subrounded grains. Reddish gray to dark gray (10YR 6/1 to 7.5YR 4/1). Granite, quartzite, chert, sandstone, and basalt.
NEP 39	190-195	Medium to coarse-grained sand (90% sand, 10% gravel), well sorted, subangular to subrounded grains. Reddish gray to dark gray (10YR 5/1 to 7.5YR 4/1). Granite, quartzite, chert, sandstone, and basalt.
NEP 40	195-200	Medium to coarse-grained sand (90% sand, 10% gravel), well sorted, subangular to subrounded grains. Reddish gray to dark gray (10YR 6/1 to 7.5YR 4/1). Granite, quartzite, chert, sandstone, and basalt.
NEP 41	200-205	Medium to coarse-grained sand (90% sand, 10% gravel), well sorted, subangular to subrounded grains. Reddish gray to dark gray (10YR 6/1 to 7.5YR 4/1). Granite, quartzite, chert, sandstone, and basalt.
NEP 42	205-210	Medium to coarse-grained sand (90% sand, 10% gravel), well sorted, subangular to subrounded grains. Reddish gray to dark gray (10YR 6/1 to 7.5YR 4/1). Granite, quartzite, chert, sandstone, and basalt.
NEP 13	210-215	Medium to coarse-grained sand (90% sand, 10% gravel), well sorted, Reddish gray to dark gray (10YR 6/1 to 7.5YR 4/1). Granite, quartzite, chert, sandstone, and basalt.
NEP 44	215-220	Medium to coarse-grained sand (90% sand, 10% gravel), well sorted, Reddish gray to dark gray (10YR 6/1 to 7.5YR 4/1). Granite, quartzite, chert, sandstone, and basalt.

NEP 45	220-225	Clean gravel (100% gravel), well sorted, subrounded to rounded. Reddish gray to dark gray (10YR 6/1 to 7.5YR 4/1). Quartzite, granite, sandstone, intermediate volcanics and trace basalt.
NEP 46	225-230	Clean gravel (100% gravel), well sorted, subrounded to rounded. Reddish gray to dark gray (10YR 6/1 to 7.5YR 4/1). Quartzite, granite, sandstone, intermediate volcanics and trace basalt.
NEP 47	230-235	Clean gravel (100% gravel), well sorted, subrounded to rounded. Reddish gray to dark gray (10YR 6/1 to 7.5YR 4/1). Quartzite, granite, sandstone, intermediate volcanics and trace basalt.
NEP 48	235-240	Clean gravel (100% gravel), well sorted, subrounded to rounded. Reddish gray to dark gray (10YR 6/1 to 7.5YR 4/1). Quartzite, granite, sandstone, intermediate volcanics and trace basalt.
NEP 49	240-245	Gravel (90% gravel, 10% sand), well sorted, subrounded to rounded. Dark grayish brown (10YR 4/2 to 7.5YR 4/2). Quartzite, granite, sandstone, and intermediate volcanics.
NEP 50	245-250	Gravel (90% gravel, 10% sand), well sorted, subrounded to rounded. Dark grayish brown (10YR 4/2 to 7.5YR 4/2). Quartzite, granite, sandstone, and intermediate volcanics.
NEP 51	250-255	Gravel (90% gravel, 10% sand), well sorted, subrounded to rounded. Dark grayish brown (10YR 4/2 to 7.5YR 4/2). Quartzite, granite, sandstone, and intermediate volcanics.
NEP 52	255-260	Silty, pebbly sand (50% silt, 45% sand, 5% gravel), moderately sorted, subangular to rounded. Brown silt (7.5 YR 5/2) and dark gray to brown sand and gravel (7.5YR 4/2-4/0). Quartzite, granite, and sandstone. NOTE: Quartz sand grains are the more rounded fraction of the sample.
NEP 53	260-265	Silty, pebbly sand (50% silt, 45% sand, 5% gravel), moderately sorted, subangular to rounded. Brown silt (7.5 YR 5/2) and dark gray to brown sand and gravel (7.5YR 4/2-4/0). Quartzite, granite, and sandstone.
NEP 54	265-270	Silty, pebbly sand (50% silt, 45% sand, 5% gravel), moderately sorted, subangular to rounded. Brown silt (7.5 YR 5/2) and dark gray to brown sand and gravel (7.5YR 4/2-4/0). Quartzite, granite, and sandstone.
NEP 55	270-275	Silty, pebbly sand (50% silt, 45% sand, 5% gravel), moderately sorted, subangular to rounded. Brown silt (7.5 YR 5/2) and dark gray to brown said and gravel (7.5YR 4/2-4/0). Quartzite, granite, and sandstone.
NEP 56	275-280	Siley, pebbly sand (50% silt, 45% sand, 5% gravel), moderately sorted, subangular to rounded. Brown silt (7.5 YR 5/2) and dark gray to brown sand and gravel (7.5YR 4/2-4/0). Quartzite, granite, and sandstone.
NEP 57	280-285	Silty, pebbly sand (50% silt, 45% sand, 5% gravel), moderately sorted, subangular to rounded. Brown silt (7.5 YR 5/2) and dark gray to brown sand and gravel (7.5YR 4/2-4/0). Quartzite, granite, and sandstone.
NEP 58	285-290	Silty, pebbly sand (50% silt, 45% sand, 5% gravel), moderately sorted, subangular to rounded. Brown silt (7.5 YR 5/2) and dark gray to brown sand and gravel (7.5YR 4/2-4/0). Quartzite, granite, and sandstone.
NEP 59	290-295	Silty, pebbly sand (50% silt, 45% sand, 5% gravel), moderately sorted, subangular to rounded. Brown silt (7.5 YR 5/2) and dark gray to brown sand and gravel (7.5YR 4/2-4/0). Quartzite, granite, and sandstone.
NEP 60	295-300	Silty, pebbly sand (50% silt, 45 % sand, 5% gravel), moderately sorted, subangular to rounded. Brown silt (7.5 YR 5/2) and dark gray to brown sand and gravel (7.5YR 4/2-4/0). Quartzite, granite, and sandstone.

NEP 61	300-305	Silty, pebbly sand (50% silt, 45 % sand, 5% gravel), moderately sorted, subangular to rounded. Brown silt (7.5 YR 5/2) and dark gray to brown sand and gravel (7.5 YR 4/2-4/0). Quartzite, granite, and sandstone.
NEP 62	305-310	Silty, pebbly sand (50% silt, 45 % sand, 5% gravel), moderately sorted, subangular to rounded. Brown silt (7.5 YR 5/2) and dark gray to brown sand and gravel (7.5YR 4/2-4/0). Quartzite, granite, and sandstone.
NEP 63	310-315	Silty, pebbly sand (50% silt, 45 % sand, 5% gravel), moderately sorted, subangular to rounded. Brown silt (7.5 YR 5/2) and dark gray to brown sand and gravel (7.5YR 4/2-4/0). Quartzite, granite, and sandstone.
NEP 64	315-320	Silty, pebbly sand (50% silt, 45% sand, 5% gravel), moderately sorted, subangular to rounded. Brown silt (7.5 YR 5/2) and dark gray to brown sand and gravel (7.5 YR 4/2-4/0). Quartzite, granite, and sandstone.
NEP 65	320-325	Silty, pebbly sand (50% silt, 45 % sand, 5% gravel), moderately sorted, subangular to rounded. Brown silt (7.5 YR 5/2) and dark gray to brown sand and gravel (7.5 YR 4/2-4/0). Quartzite, granite, and sandstone.
NEP 66	325-330	Silty sand (70% silt, 30% sand), moderately to well sorted, subangular to subrounded. Light brown silt (7.5YR 6/3) and brown sand (7.5YR 5/4).
NEP 67	330-335	Silty sand (70% silt, 30% sand), moderately to well sorted, subangular to subrounded. Light brown silt (7.5 x K 6/3) and brown sand (7.5 Y K 5/4).
NEP 68	335-340	Silty sand (70% silt, 30% sand), moderately to well sorted, subangular to subrounded. Light brown silt (7.5YR 6/3) and brown sand (7.5YR 5/4).
NEP 69	340-345	Silty sand (70% silt, 30% sand), moderately to well sorted, subangular to subrounded. Light brown silt (7.5YR 6/3) and brown sand (7.5YR 5/4).
NEP 70	345-350	Silty sand (70% silt, 30% sand), moderately to well sorted, subangular to subrounded. Light brown silt (7.5YR 6/3) and brown sond (7.5YR 5/4).
NEP 71	350-355	Silty sand (70% silt, 30% sand), moderately to well sorted, subangular to subrounded. Light brown silt (7.5YR 6/3) and brown sand (7.5YR 5/4).
NEP 72	355-360	Silty sand (70% silt, 30% sand), moderately to well sorted, subangular to subrounded. Light brown silt (7.5YR 6/3) and brown sand (7.5YR 5/4).
NEP 73	360-365	Silty sand (70% silt, 30% sand), moderately to well sorted, subangular to subrounded. Light brown silt (7.5YR 6/3) and brown sand (7.5YR 5/4).
NEP 74	365-370	Silty sand (70% silt, 30% sand), moderately to well sorted, subangular to subrounded. Light brown silt (7.5YR 5/3) and brown sand (7.5YR 5/4).
NEP 75	370-375	Silty sand (70% silt, 30% sand), moderately to well sorted, subangular to subrounded. Light brown silt (7.5YR 6/3) and brown sand (7.5YR 5/4).
NEP 76	375-380	Silty sand (70% silt, 30% sand), moderately to well sorted, subangular to subrounded. Light brown silt (7.5YR 6/3) and brown sand (7.5YR 5/4).
NEP 77	380-385	Clean coarse-grained sand to fine gravel (50% sand, 50% gravel), well sorted, subangular grains. Brown (7.5YR 5/4). Quartzite, granite, chert, intermediate volcanics, basalt, trace metamorphics.
NEP 78	385-390	Silty medium to coarse-grained sand (80% sand, 15% silt, 5% gravel), moderately to well sorted, subangular to subrounded grains. Light brown silt (7.5YR 6/3) and brown sand (7.5YR 5/4). Quartzite, granite, and chert.
NEP 79	390-395	Silty medium to coarse-grained sand (80% sand, 15% silt, 5% gravel), moderately to well sorted, subangular to subrounded grains. Light brown silt (7.5YR 6/3) and brown sand (7.5YR 5/4). Quartzite, granite, and chert.
NEP 80	395-400	Silty medium to coarse-grained sand (80% sand, 15% silt, 5% gravel), moderately to well sorted, subangular to subrounded grains. Light brown silt (7.5YR 6/3) and brown sand (7.5YR 5/4). Quartzite, granite, and chert.
NEP 81	400-405	Silt and fine to coarse-grained sand (55% silt, 45% sand), moderately sorted, subangular to subrounded. Light brown to yellowish brown (7.5YR 6/3 to 10YR 5/4).

NEP 82	405-410	Silt and fine to coarse-grained sand (55% silt, 45% sand), moderately sorted, subangular to subrounded. Light brown to yellowish brown (7.5YR 6/3 to 10YR 5/4).
NEP 83	410-415	Silty medium to coarse-grained sand (80% sand, 15% silt, 5% gravel), moderately to well sorted, subangular to subrounded grains. Light brown silt (7.5YR 6/3) and brown sand (7.5YR 5/4). Quartzite, granite, and chert.
NEP 84	415-420	Silty medium to coarse-grained sand (80% sand, 15% silt, 5% gravel), moderately to well sorted, subangular to subrounded grains. Light brown silt (7.5YR 6/3) and brown sand (7.5YR 5/4). Quartzite, granite, and chert.
NEP 85	420-425	Silty medium to coarse-grained sand (80% sand, 15% silt, 5% gravel), moderately to well sorted, subangular to subrounded grains. Light brown silt (7.5YR 6/3) and brown sand (7.5YR 5/4). Ouartzite, granite, and chert.
NEP 86	425-430	Silty medium to coarse-grained sand (80% sand, 15% silt, 5% gravel), moderately to well sorted, subangular to subrounded grains. Light brown silt (7.5YR 6/3) and brown sand (7.5YR 5/4). Ouartzite, granite, and chert.
NEP 87	430-435	Medium to coarse-grained sand (90% sand, 5% silt, 5% gravel), well sorted, subangular to subrounded grains. Yellowish brown (10YR 5/4). Ouartzite, granite and chert.
NEP 88	435-440	Medium to coarse-grained sand (90% sand, 5% silt, 5% gravel), well sorted, subangular to subrounded grains. Yellowish brown (10YR 5/4). Ouartzite, granite and chert.
NEP 89	440-445	Silty fine sand (60% sand, 40% silt), moderately to well sorted, subangular to subrounded. Yellowish brown (10YR 5/4).
NEP 90	445-450	Silty fine sand (60% sand, 40% silt), moderately to well sorted, subangular to subrounded. Yellowish brown (10YR 5/4).
NEP 91	450-455	Silty fine sand (60% sand, 40% silt), moderately to well sorted, subangular to subrounded. Yellowish brown (10YR 5/4).
NEP 92	455-460	Silty fine sand (60% sand, 40% silt), moderately to well sorted, subangular to subrounded. Yellowish brown (10YR 5/4).
NEP 93	460-465	Silty fine sand (60% sand, 40% silt), moderately to well sorted, subangular to subrounded. Yellowish brown (10YR 5/4).
NEP 94	465-470	Silty fine sand (60% sand, 40% silt), moderately to well sorted, subangular to subrounded. Yellowish brown (10YR 5/4).
NEP 95	470-475	Silty fine sand (60% sand, 40% silt), moderately to well sorted, subangular to subrounded. Yellowish brown (10YR 5/4).
NEP 96	475-480	Silty fine sand (60% sand, 40% silt), moderately to well sorted, subangular to subrounded. Yellowish brown (10YR 5/4).
NEP 97	480-485	Silty fine sand (60% sand, 40% silt), moderately to well sorted, subangular to subrounded. Yellowish brown (10YR 5/4).
NEP 98	485-490	Silty fine sand (60% sand, 40% silt), moderately to well sorted, subangular to subrounded. Yellowish brown (10YR 5/4).
NEP 99	490-495	Silty fine sand (60% sand, 40% silt), moderately to well sorted, subangular to subrounded. Yellowish brown (10YR 5/4).
NEP 100	495-500	Silty fine sand (60% sand, 40% silt), moderately to well sorted, subangular to subrounded. Yellowish brown (10YR 5/4).
NEP 101	500-505	Silty fine sand (60% sand, 40% silt), moderately to well sorted, subangular to subrounded. Yellowish brown (10YR 5/4).
NEP 102	505-510	Silty fine sand (60% sand, 40% silt), moderately to well sorted, subangular to subrounded. Yellowish brown (10YR 5/4).

NEP 103	510-515	Silty fine sand (60% sand, 40% silt), moderately to well sorted, subangular to subrounded. Yellowish brown (10YR 5/4).
NEP 104	515-520	Silty fine to coarse-grained sand (70% sand, 30% silt), moderately to well sorted, subangular to subrounded. Yellowish brown to dark yellowish brown (10YR 5/4-4/4).
NEP 105	520-525	Silty fine to coarse-grained sand (70% sand, 30% silt), moderately to well sorted, subangular to subrounded. Yellowish brown to dark yellowish brown (10YR 5/4-4/4).
NEP 106	525-530	Silty fine to coarse-grained sand (70% sand, 30% silt), moderately to well sorted, subangular to subrounded. Yellowish brown to dark yellowish brown (10YR 5/4-4/4).
NEP 107	530-535	Silty fine to coarse-grained sand (70% sand, 30% silt), moderately to well sorted, subangular to subrounded. Yellowish brown to dark yellowish brown (10YR 5/4-4/4).
NEP 108	535-540	Silty fine to coarse-grained sand (70% sand, 30% silt), moderately to well sorted, subangular to subrounded. Yellowish brown to dark yellowish brown (10YR 5/4-4/4).
NEP 109	540-545	Silty fine to coarse-grained sand (70% sand, 30% silt), moderately to well sorted, subangular to subrounded. Yellowish brown to dark yellowish brown (10^{N} S/4-4/4).
NEP 110	545-550	Silty fine to coarse-grained sand (70% sand, 30% silt), moderately to well sorted, subangular to subrounded. Yellowish brown to dark yellowish brown (10YR 5/4-4/4).
NEP 111	550-555	Silty fine to coarse-grained sand (70% sand, 30% silt), moderately to well sorted, subangular to subrounded. Yellowish brown to dark yellowish brown (10YR 5/4-4/4).
NEP 112	555-560	Silty fine to coarse-grained sand (70% sand, 30% silt), moderately to well sorted, subangular to subrounded. Yellowish brown to dark yellowish brown (10YR 5/4-4/4).
NEP 113	560-565	Silty fine to coarse-grained sand (70% sand, 30% silt), moderately to well sorted, subangular to subrounded. Yellowish brown to dark yellowish brown (10YR 5/4-4/4).
NEP 114	565-570	Silty fine to coarse-grained sand (70% sand, 30% silt), moderately to well sorted, subangular to subrounded. Yellowish brown to dark yellowish brown (10YR 5/4-4/4).
NEP 115	570-575	Silty fine to coarse-grained sand (70% sand, 30% silt), moderately to well sorted, subangular to subrounded. Yellowish brown to dark yellowish brown (10YR 5/4-4/4).
NEP 116	575-580	Silty fine to coarse-grained sand (70% sand, 30% silt), moderately to well sorted, subangular to subrounded. Yellowish brown to dark yellowish brown (10YR 5/4-4/4).
NEP 117	580-585	Silty fine to coarse-grained sand (70% sand, 30% silt), moderately to well sorted, subangular to subrounded. Yellowish brown to dark yellowish brown (10YR 5/4-4/4).
NEP 118	585-590	Silty fine to coarse-grained sand (70% sand, 30% silt), moderately to well sorted, subangular to subrounded. Yellowish brown to dark yellowish brown (10YR 5/4-4/4).

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NEP 119	590-595	Silty fine to coarse-grained sand (70% sand, 30% silt), moderately to well sorted, subangular to subrounded. Yellowish brown to dark yellowish brown (10YR 5/4-4/4).
NEP 120	595-600	Silty fine to coarse-grained sand (70% sand, 30% silt), moderately to well sorted, subangular to subrounded. Yellowish brown to dark yellowish brown (10YR 5/4-4/4).
NEP 121	600-605	Silty/clayey gravel (60% gravel, 25% sand, 15% silt/clay), moderately to well sorted, subangular to subrounded. Yellowish brown to dark yellowish brown (10YR 5/4-4/4). Quartzite, granite, chert and trace basalt.
NEP 122	605-610	Silty/clayey gravel (60% gravel, 25% sand, 15% silt/clay), moderately to well sorted, subangular to subrounded. Yellowish brown to dark yellowish brown (10YR 5/4-4/4). Quartzite, granite, chert and trace basalt.
NEP 123	610-615	Silty/clayey gravel (60% gravel, 25% sand, 15% silt/clay), moderately to well sorted, subangular to subrounded. Yellowish brown to dark yellowish brown (10YR 5/4-4/4). Quartzite, granite, chert and trace basalt.
NEP 124	615-620	Silty/clayey gravel (60% gravel, 25% sand, 15% silt/clay), moderately to well sorted, subangular to subrounded. Yellowish brown to dark yellowish brown (10YR 5/4-4/4). Quartzite, granite, chert and trace basalt.
NEP 125	620-625	Silty/clayey gravel (60% gravel, 25% sand, 15% silt/clay), moderately to well sorted, subangular to subrounded. Yellowish brown to dark yellowish brown (10YR 5/4-4/4). Quartzite, granite, chert and trace basalt.
NEP 126	625-630	Silty/clayey gravel (60% gravel, 25% sand, 15% silt/clay), moderately to well sorted, subangular to subrounded. Yellowish brown to dark yellowish brown (10YR 5/4-4/4). Quartzite, granite, chert and trace basalt.
NEP 127	630-635	Silty/clayey gravel (60% gravel, 25% sand, 15% silt/clay), moderately to well sorted, subangular to subrounded. Yellowish brown to dark yellowish brown (10YR 5/4-4/4). Quartzite, granite, chert and trace basalt.
NEP 128	635-640	Silty/clayey gravel (60% gravel, 25% sand, 15% silt/clay), moderately to well sorted, subangular to subrounded. Yellowish brown to dark yellowish brown (10YR 5/4-4/4). Quartzite, granite, chert and trace basalt.
NEP 129	640-645	Silty sand (60% sand, 35% silt, 5% gravel), moderately well sorted, subangular to subrounded. Dark yellowish brown (10YR 4/4). Quartzite, granite and chert.
NEP 130	645-650	Silty sand (60% sand, 35% silt, 5% gravel), moderately well sorted, subangular to subrounded. Dark yellowish brown (10YR 4/4). Quartzite, granite and chert.
NEP 131	650-655	Silty sand (60% sand, 35% silt, 5% gravel), moderately well sorted, subangular to subrounded. Dark yellowish brown (10YR 4/4). Quartzite, granite and chert.
NEP 132	655-660	Silty sand (60% sand, 35% silt, 5% gravel), moderately well sorted, subangular to subrounded. Dark yellowish brown (10YR 4/4). Quartzite, granite and chert.
NEP 133	660-665	Silty sand (60% sand, 35% silt, 5% gravel), moderately well sorted, subangular to subrounded. Dark yellowish brown (10YR 4/4). Quartzite, granite and chert.
NEP 134	665-670	Silty sand (60% sand, 35% silt, 5% gravel), moderately well sorted, subangular to subrounded. Dark yellowish brown (10YR 4/4). Quartzite, granite and chert.

NEP 135	670-675	Silty sand (60% sand, 35% silt, 5% gravel), moderately well sorted, subangular to subrounded. Dark yellowish brown (10YR 4/4). Quartzite, granite and chert.
NEP 136	675-680	Silty sand (60% sand, 35% silt, 5% gravel), moderately well sorted, subangular to subrounded. Dark yellowish brown (10YR 4/4). Quartzite, granite and chert.
NEP 137	680-685	Silty sand (60% sand, 35% silt, 5% gravel), moderately well sorted, subangular to subrounded. Dark yellowish brown (10YR 4/4). Quartzite, granite and chert.
NEP 138	685-690	Silty sand (60% sand, 35% silt, 5% gravel), moderately well sorted, subangular to subrounded. Dark yellowish brown (10YR 4/4). Quartzite, granite and chert.
NEP 139	690-695	Silty sand (60% sand, 35% silt, 5% gravel), moderately well sorted, subangular to subrounded. Dark yellowish brown (10YR 4/4). Quartzite, granite and chert.
NEP 140	695-700	Coarse-grained sand (85% sand, 15% silt/clay, trace gravel), well sorted, subangular to subrounded. Yellowish brown to dark yellowish brown (10YR 5/4-4/4). Quartzite, granite, and chert.
NEP 141	700-705	Coarse-grained sand (85% sand, 15% silt/clay, trace gravel), well sorted, subangular to subrounded. Yellowish brown to dark yellowish brown (10YR 5/4-4/4). Quartzite, granite, and chert.
NEP 142	705-710	Coarse-grained sand (85% sand, 15% silt/clay, trace gravel), well sorted, subangular to subrounded. Yellowish brown to dark yellowish brown (10YR 5/4-4/4). Ouartzite, granite, and chert.
NEP 143	710-715	Coarse-grained sand (85% sand, 15% silt/clay, trace gravel), well sorted, subangular to subrounded. Yellowish brown to dark yellowish brown (10YR 5/4-4/4). Quartzite, granite, and chert.
NEP 144	715-720	Silt and fine-grained sand (60% silt, 40% sand, trace gravel), moderately sorted, subangular to subrounded. Yellowish brown (10YR 5/4). Quartzite, granite, and chert.
NEP 145	720-725	Silt and fine-grained sand (60% silt, 40% sand, trace gravel), moderately sorted, subangular to subrounded. Yellowish brown (10YR 5/4). Quartzite, granite, and chert.
NEP 146	725-730	Clayey/silty coarse-grained sand (60% sand, 40% clay/silt), moderately to well sorted, subangular to subrounded grains. Yellowish brown clay (10YR 5/4) and gray to brownish gray sand (10YR 6/1-6/2).
NEP 147	730-735	Clayey/silty coarse-grained sand (60% sand, 40% clay/silt), moderately to well sorted, subangular to subrounded grains. Yellowish brown clay (10YR 5/4) and gray to brownish gray sand (10YR 6/1-6/2).
NEP 148	735-740	Clayey/silty coarse-grained sand (60% sand, 40% clay/silt), moderately to well sorted, subangular to subrounded grains. Yellowish brown clay (10YR 5/4) and gray to brownish gray sand (10YR 6/1-6/2).
NEP 149	740-745	Clayey/silty coarse-grained sand (60% sand, 40% clay/silt), moderately to well sorted, subangular to subrounded grains. Yellowish brown clay (10YR 5/4) and gray to brownish gray sand (10YR 6/1-6/2).
NEP 150	745-750	Pebbly, coarse-grained sand (85% sand, 15% silt, trace gravel) moderately sorted, subangular to subrounded. Gray to brownish gray (10YR 6/1-6/2). Quartzite, granite, and chert.
NEP 151	750-755	Pebbly, coarse-grained sand (85% sand, 15% silt, trace gravel) moderately sorted, subangular to subrounded. Gray to brownish gray (10YR 6/1-6/2). Quartzite, granite, and chert.

NEP 152	755-760	Pebbly, coarse-grained sand (85% sand, 15% silt, trace gravel) moderately sorted, subangular to subrounded. Gray to brownish gray (10YR 6/1-6/2). Quartzite, granite, and chert
NEP 153	760-765	Pebbly, coarse-grained sand (85% sand, 15% silt, trace gravel) moderately sorted, subangular to subrounded. Gray to brownish gray (10YR 6/1-6/2). Quartzite, granite, and chert.
NEP 154	765-770	Pebbly, coarse-grained sand (85% sand, 15% silt, trace gravel) moderately sorted, subangular to subrounded. Gray to brownish gray (10YR 6/1-6/2). Quartzite, granite, and chert.
NEP 155	770-775	Pebbly, coarse-grained sand (85% sand, 15% silt, trace gravel) moderately sorted, subangular to subrounded. Gray to brownish gray (10YR 6/1-6/2). Quartzite, granite, and chert.
NEP 156	775-780	Pebbly, coarse-grained sand (85% sand, 15% silt, trace gravel) moderately sorted, subangular to subrounded. Gray to brownish gray (10YR 6/1-6/2). Quartzite, granite, and chert.
NEP 157	780-785	Pebbly, coarse-grained sand (85% sand, 15% silt, trace gravel) moderately sorted, subangular to subrounded. Gray to brownish gray (10YR 6/1-6/2). Quartzite, granite, and chert.
NEP 158	785-790	Pebbly, coarse-grained sand (85% sand, 15% silt, trace gravel) moderately sorted, subangular to subrounded. Gray to brownish gray (10YR 6/1-6/2). Quartzite, granite, and chert.
NEP 159	790-795	Pebbly, coarse-grained sand (85% sand, 15% silt, trace gravel) moderately sorted, subangular to subrounded. Gray to brownish gray (10YR 6/1-6/2). Quartzite, granite, and chert.
NEP 160	795-800	Pebbly, coarse-grained sand (85% sand, 15% silt, trace gravel) moderately sorted, subangular to subrounded. Gray to brownish gray (10YR 6/1-6/2). Quartzite, granite, and chert.
NEP 161	800-805	Sandy clay/silt mixture (60% clay/silt, 35% sand, 5% gravel), moderately sorted, subrounded to subangular. Yellowish brown clay (10YR 5/4) and grav to brownish grav sand (10YR 6/1-6/2). Ouartzite, granite and chert.
NEP 162	805-810	Sandy clay/silt mixture (60% clay/silt, 35% sand, 5% gravel), moderately sorted, subrounded to subangular. Yellowish brown clay (10YR 5/4) and gray to brownish gray sand (10YR 6/1-6/2). Quartzite, granite and chert.
NEP 163	810-815	Sandy clay/silt mixture (60% clay/silt, 35% sand, 5% gravel), moderately sorted, subrounded to subangular. Yellowish brown clay (10YR 5/4) and gray to brownish gray sand (10YR 6/1-6/2). Quartzite, granite and chert.
NEP 164	815-820	Medium to coarse-grained sand and gravel (55% sand, 40% gravel, 5% silt), moderately to well sorted, subrounded to rounded sand grains, and subrounded gravel clasts. Gray (10YR 6/1). Quartzite, granite, and subequal amounts of chert and sandstone.
NEP 165	820-825	Medium to coarse-grained sand and gravel (55% sand, 40% gravel, 5% silt), moderately to well sorted, subrounded to rounded sand grains, and subrounded gravel clasts. Gray (10YR 6/1). Quartzite, granite, and subequal amounts of chert and sandstone.
NEP 166	825-830	Medium to coarse-grained sand and gravel (55% sand 40% gravel, 5% silt), moderately to well sorted, subrounded to rounded sand grains, and subrounded gravel clasts. Gray (10YR 6/1). Quartzite, granite, and subequal amounts of chert and sandstone.
NEP 167	830-835	Medium to coarse-grained sand and gravel (55% sand, 40% gravel, 5% silt), moderately to well sorted, subrounded to rounded sand grains, and subrounded gravel clasts. Gray (10YR 6/1). Quartzite, granite, and subequal amounts of chert and sandstone.

NEP 168	835-840	Medium to coarse-grained sand and gravel (55% sand, 40% gravel, 5% silt), moderately to well sorted, subrounded to rounded sand grains, and subrounded gravel clasts. Gray (10YR 6/1). Quartzite, granite, and subequal amounts of chert and sandstone.
NEP 169	840-845	Clean coarse-grained to very coarse-grained sand and gravel (50% sand, 50% gravel), well sorted, subangular to subrounded. Reddish brown to gray (5YR 5/3-5/1). Quartzite, chert, granite, intermediate volcanics, trace basalt and obsidian. NOTE: Quartzite grains tend to be more rounded while volcanics, such as obsidian, tend to be more angular in shape.
NEP 170	845-850	Clean coarse-grained to very coarse-grained sand and gravel (50% sand, 50% gravel), well sorted, subangular to subrounded. Reddish brown to gray (5YR 5/3-5/1). Quartzite, chert, granite, intermediate volcanics, trace basalt and obsidian.
NEP 171	850-855	Clean coarse-grained to very coarse-grained sand and gravel (50% sand, 50% gravel), well sorted, subangular to subrounded. Reddish brown to gray (5YR 5/3-5/1). Quartzite, chert, granite, intermediate volcanics, trace basalt and obsidian.
NEP 172	855-860	Clean coarse-grained to very coarse-grained sand and gravel (50% sand, 50% gravel), well sorted, subangular to subrounded. Reddish brown to gray (5YR 5/3-5/1). Quartzite, chert, granite, intermediate volcanics, trace basalt and obsidian.
NEP 173	860-865	Clean coarse-grained to very coarse-grained sand and gravel (50% sand, 50% gravel), well sorted, subangular to subrounded. Reddish brown to gray (5YR 5/3-5/1). Quartzite, chert, granite, intermediate volcanics, trace basalt and obsidian.
NEP 174	865-870	Clean coarse-grained to very coarse-grained sand and gravel (50% sand, 50% gravel), well sorted, subangular to subrounded. Reddish brown to gray (5YR 5/3-5/1). Quartzite, chert, granite, intermediate volcanics, trace basalt and obsidian.
NEP 175	870-8 75	Clean coarse-grained to very coarse-grained sand and gravel (50% sand, 50% gravel), well sorted, subangular to subrounded. Reddish brown to gray (5YR 5/3-5/1). Quartzite, chert, granite, intermediate volcanics, trace basalt and obsidian.
NEP 176	875-880	Clean coarce-grained to very coarse-grained sand and gravel (50% sand, 50% gravel), well sorted, subangular to subrounded. Reddish brown to gray (5YR 5/3-5/1). Quartzite, chert, granite, intermediate volcanics, trace basalt and obsidian.
NEP 177	880-885	Clay (80% clay, 10% sand, 10% gravel), moderately to well sorted, subangular to subrounded gravel clasts. Brown to dark brown clay (7.5YR 4/4) and reddish gray to gray sand and gravel (5YR 5/3-5/1). Quartzite, granite, and chert. NOTE: Driller's noted dense clay at a depth of 877.5 feet.
NEP 178	885-890	Silty/clayey coarse-grained sand (70% sand, 30% silt/clay), moderately to well sorted, subangular to subrounded gravel clasts. Brown to dark brown clay (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1).
NEP 179	890-895	Silty/clayey coarse-grained sand (70% sand, 30% silt/clay), moderately to well sorted, subangular to subrounded gravel clasts. Brown to dark brown clay (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1).

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NEP 180	895-900	Silty/clayey coarse-grained sand (70% sand, 30% silt/clay), moderately to well sorted, subangular to subrounded grains. Brown to dark brown clay
NEP 181	900-905	 (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1). Silty/clayey coarse-grained sand (70% sand, 30% silt/clay), moderately to well sorted, subangular to subrounded grains. Brown to dark brown clay (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1).
NEP 182	905-910	Silty/clayey coarse-grained sand (70% sand, 30% silt/clay), moderately to well sorted, subangular to subrounded grains. Brown to dark brown clay (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1).
NEP 183	910-915	Silty/clayey coarse-grained sand (70% sand, 30% silt/clay), moderately to well sorted, subangular to subrounded grains. Brown to dark brown clay (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1).
NEP 184	915-920	Silty/clayey coarse-grained sand (70% sand, 30% silt/clay), moderately to well sorted, subangular to subrounded grains. Brown to dark brown clay (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1).
NEP 185	920-925	Silty/clayey coarse-grained sand (70% sand, 30% silt/clay), moderately to well sorted, subangular to subrounded grains. Brown to dark brown clay (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1).
NEP 186	925-930	Silty/clayey coarse-grained sand (70% sand, 30% silt/clay), moderately to well sorted, subangular to subrounded grains. Brown to dark brown clay (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1).
NEP 187	930-935	Silty/clayey coarse-grained sand (70% sand, 30% silt/clay), moderately to well sorted, subangular to subrounded grains. Brown to dark brown clay (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1).
NEP 188	935-940	Silty/clayey coarse-grained sand (70% sand, 30% silt/clay), moderately to well sorted, subangular to subrounded grains. Brown to dark brown clay (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1).
NEP 189	940-945	Silty/clayey coarse-grained sand (70% sand, 30% silt/clay, trace gravel), moderately to well sorted, subangular to subrounded gravel clasts. Brown to dark brown clay (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1). Ouartzite, granite, and chert.
NEP 190	945-950	Silty/clayey coarse-grained sand (70% sand, 30% silt/clay, trace gravel), moderately to well sorted, subangular to subrounded gravel clasts. Brown to dark brown clay (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1). Ouartzite, granite, and chert.
NEP 191	950-955	Silty/clayey coarse-grained sand (70% sand, 30% silt/clay, trace gravel), moderately to well sorted, subangular to subrounded gravel clasts. Brown to dark brown clay (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1). Ouartzite, granite, and chert.
NEP 192	955-960	Silty/clayey coarse-grained sand (70% sand, 30% silt/clay, trace gravel), moderately to well sorted, subangular to subrounded gravel clasts. Brown to dark brown clay (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1). Ouartzite, granite, and chert.
NEP 193	960-965	Silty/clayey coarse-grained sand (70% sand, 30% silt/clay, trace gravel), moderately to well sorted, subangular to subrounded gravel clasts. Brown to dark brown clay (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1). Ouartzite, granite, and chert.

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NEP 194	965-970	Coarse-grained sand (90% sand, 10% silt), moderately sorted, subangular to subrounded. Brown to dark brown silt (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1).
NEP 195	970-975	Coarse-grained sand (90% sand, 10% silt), moderately sorted, subangular to subrounded. Brown to dark brown silt (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1).
NEP 196	975-980	Coarse-grained sand (90% sand, 10% silt), moderately sorted, subangular to subrounded. Brown to dark brown silt (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1).
NEP 197	980-985	Coarse-grained sand (90% sand, 10% silt), moderately sorted, subangular to subrounded. Brown to dark brown silt (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1).
NEP 198	985-990	Coarse-grained sand (90% sand, 10% silt), moderately sorted, subangular to subrounded. Brown to dark brown silt (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1).
NEP 199	990-995	Coarse-grained sand (90% sand, 10% silt), moderately sorted, subangular to subrounded. Brown to dark brown silt (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1).
NEP 200	995-1000	Coarse-grained sand (90% sand, 10% silt), moderately sorted, subangular to subrounded. Brown to dark brown silt (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1).
NEP 201	1000-1005	Medium grained sand (90% sand, 10% silt), moderately sorted, subangular to subrounded. Brown to dark brown silt (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1).
NEP 202	1005-1010	Medium grained sand (90% sand, 10% silt), moderately sorted, subangular to subrounded. Brown to dark brown silt (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1).
NEP 203	1010-1015	Medium grained sand (90% sand, 10% silt), moderately sorted, subangular to subrounded. Brown to dark brown silt (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1).
NEP 204	1015-1020	Medium grained sand (90% sand, 10% silt), moderately sorted, subangular to subrounded. Brown to dark brown silt (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1).
NEP 205	1020-1025	Coarse-grained sand (90% sand, 10% silt), moderately sorted, subangular to subrounded. Brown to dark brown silt (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1).
NEP 206	1025-1030	Coarse-grained sand (90% sand, 10% silt), moderately sorted, subangular to subrounded. Brown to dark brown silt (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1).
NEP 207	1030-1035	Coarse-grained sand (90% sand, 10% silt), moderately sorted, subangular to subrounded. Brown to dark brown silt (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1).
NEP 208	1035-1040	Coarse-grained sand (90% sand, 10% silt), moderately sorted, subangular to subrounded. Brown to dark brown silt (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1).
NEP 209	1040-1045	Coarse-grained sand (90% sand, 10% silt), moderately sorted, subangular to subrounded. Brown to dark brown silt (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1).

NEP 210	1045-1050	Coarse-grained sand (90% sand, 10% silt), moderately sorted, subangular to subrounded. Brown to dark brown silt (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1).
NEP 211	1050-1055	Coarse-grained sand (90% sand, 10% silt), moderately sorted, subangular to subrounded. Brown to dark brown silt (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1).
NEP 212	1055-1060	Coarse-grained sand (90% sand, 10% silt), moderately sorted, subangular to subrounded. Brown to dark brown silt (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1).
NEP 213	1060-1065	Silty/clayey medium to coarse-grained sand (60% sand, 40%silt/clay), moderately sorted, subangular to subrounded. Brown to dark brown silt (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1).
NEP 214	1065-1070	Silty/clayey medium to coarse-grained sand (50% sand, 50%silt/clay), moderately sorted, subangular to subrounded. Brown to dark brown silt (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1).
NEP 215	1070-1075	Silty/clayey medium to coarse-grained sand (50% sand, 50%silt/clay), moderately sorted, subangular to subrounded. Brown to dark brown silt (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1).
NEP 216	1075-1080	Silty/clayey medium to coarse-grained sand (60% sand, 40%silt/clay), moderately sorted, subangular to subrounded. Brown to dark brown silt (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1).
NEP 217	1080-1085	Silty/clayey medium to coarse-grained sand (60% sand, 40%silt/clay), moderately sorted, subangular to subrounded. Brown to dark brown silt (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1).
NEP 218	1085-1090	Silty/clayey medium to coarse-grained sand (60% sand, 40%silt/clay), moderately sorted, subangular to subrounded. Brown to dark brown silt (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1).
NEP 219	1090-1095	Silty/clayey medium to coarse-grained sand (60% sand, 40%silt/clay), moderately sorted, subangular to subrounded. Brown to dark brown silt (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1).
NEP 220	1095-1100	Silty/clayey medium to coarse-grained sand (60% sand, 40%silt/clay), moderately sorted, subangular to subrounded. Brown to dark brown silt (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1).
NEP 221	1100-1105	Silty/clayey medium to coarse-grained sand (60% sand, 40%silt/clay), moderately sorted, subangular to subrounded. Brown to dark brown silt (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1).
NEP 222	1105-1110	Silty/clayey pebbly, coarse-grained sand (60% sand, 40%silt/clay, trace gravel), moderately sorted, subangular to subrounded. Brown to dark brown silt (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1). Quartzite, granite, chert, and sandstone.
NEP 223	1110-1115	Silty/clayey medium to coarse-grained sand (60% sand, 40%silt/clay), moderately sorted, subangular to subrounded. Brown to dark brown silt (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1).
NEP 224	1115-1120	Silty/clayey medium to coarse-grained sand (60% sand, 40%silt/clay), moderately sorted, subangular to subrounded. Brown to dark brown silt (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1).
NEP 225	1120-1125	Silty/clayey medium to coarse-grained sand (60% sand, 40%silt/clay), moderately sorted, subangular to subrounded. Brown to dark brown silt (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1).
NEP 226	1125-1130	Silty/clayey medium to coarse-grained sand (60% sand, 40%silt/clay), moderately sorted, subangular to subrounded. Brown to dark brown silt (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1).

NEP 227	1150-1135	Silty/clayey medium to coarse-grained sand (60% sand, 40%silt/clay), moderately sorted, subangular to subrounded. Brown to dark brown silt (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1).
NEP 228	1135-1140	Silty/clayey medium to coarse-grained sand (60% sand, 40%silt/clay), moderately sorted, subangular to subrounded. Brown to dark brown silt (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1).
NEP 229	1140-1145	Silty/clayey medium to coarse-grained sand (60% sand, 40%silt/clay), moderately sorted, subangular to subrounded. Brown to dark brown silt (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1).
NEP 230	1145-1150	Silty/clayey medium to coarse-grained sand (60% sand, 40%silt/clay), moderately sorted, subangular to subrounded. Brown to dark brown silt (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1).
NEP 231	1150-1155	Silt/clay (95% silt/clay, 5% sand, trace gravel), well sorted, subangular to subrounded. Brown (7.5YR 4/4). Quartzite, granite, chert.
NEP 232	1155-1160	Silty/clayey medium to coarse-grained sand (60% sand, 40%silt/clay, trace gravel) moderately sorted, subangular to subrounded. Brown to dark brown silt (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1). Quartzite, granite, chert.
NEP 233	1160-1165	Silty clay (100% silt/clay, trace sand), well sorted Brown to dark brown (7.5YR 4/4).
NEP 234	1165-1170	Sandy silt (70% silt, 25% sand, 5% gravel), moderately to well sorted, subangular grains. Brown silt (7.5YR 4/4) and reddish gray to gray sand and gravel (5YR 5/3-5/1). Quartzite, granite, chert, and trace sandstone and obsidian.
NEP 235	1170-1175	Silty medium to coarse-grained sand (75% sand, 20% silt, 5% gravel), moderately sorted, subangular. Brown silt (7.5YR 4/4) and reddish gray to gray sand and gravel (5YR 5/3-5/1). Quartzite, granite, chert, and trace sandstone and obsidian.
NEP 236	1175-1180	Sandy silt/clay (80% silt/clay, 15% fine to medium grained sand, 5% pebble gravel), angular to subrounded (gravel being the most angular fraction). Brown silt (7.5YR 4/4) and reddish gray to gray sand and gravel (5YR 5/3-5/1). Quartzite, granite, chert, sandstone, and trace obsidian.
NEP 237	1180-1185	Silty/clayey coarse-grained sand (75% sand, 20% silt/clay, 5% gravel), moderately sorted, angular to subrounded. Brown silt/clay (7.5YR 4/4) and reddish gray to gray sand and gravel (5YR 5/3-5/1). Quartzite, granite, chert, and trace obsidian. NOTE: Obsidian makes of the angular gravel component.
NEP 238	1185-1190	Silty/clayey coarse-grained sand (75% sand, 20% silt/clay, 5% gravel), moderately source, angular to subrounded. Brown silt/clay (7.5YR 4/4) and reddish gray to gray sand and gravel (5YR 5/3-5/1). Quartzite, granite, chert, and trace obsidian.
NEP 239	1190-1195	Medium to coarse-grained sand (80% sand, 15% silt, 5% gravel), moderately to well sorted, angular to subrounded. Brown silt (7.5YR 4/4) and reddish gray to gray sand and gravel (5YR 5/3-5/1). Quartzite, granite, chert, and trace intermediate volcanics.
NEP 240	1195-1200	Medium to coarse-grained sand (80% sand, 15% silt, 5% gravel), moderately to well sorted, angular to subrounded. Brown silt (7.5YR 4/4) and reddish gray to gray sand and gravel (5YR 5/3-5/1). Quartzite, granite, chert, and trace intermediate volcanics.
NEP 241	1200-1205	Medium to coarse-grained sand (80% sand, 15% silt, 5% gravel), moderately to well sorted, angular to subrounded. Brown silt (7.5YR 4/4) and reddish gray to gray sand and gravel (5YR 5/3-5/1). Quartzite, granite, chert, and trace intermediate volcanics.

NEP 242	1205-1210	Coarse-grained to very coarse-grained sand (75% sand, 15% silt, 10% gravel), well sorted, angular to subrounded. Brown silt (7.5YR 4/4) and reddish gray to gray sand and gravel (5YR 5/3-5/1). Quartzite, granite, chert, sandstone, and trace intermediate volcanics. NOTE: Quartzite grains are the more rounded fraction in the sample.
NEP 243	1210-1215	Coarse-grained to very coarse-grained sand (75% sand, 15% silt, 10% gravel), well sorted, angular to subrounded. Brown silt (7.5YR 4/4) and reddish gray to gray sand and gravel (5YR 5/3-5/1). Quartzite, granite, chert, sandstone, and trace intermediate volcanics. NOTE: Quartzite grains are the more rounded fraction in the sample.
NEP 244	1215-1220	Coarse-grained to very coarse-grained sand (75% sand, 15% silt, 10% gravel), well sorted, angular to subrounded. Brown silt (7.5YR 4/4) and reddish gray to gray sand and gravel (5YR 5/3-5/1). Quartzite, granite, chert, sandstone, and trace intermediate volcanics. NOTE: Quartzite grains are the more rounded fraction in the sample.
NEP 245	1220-1225	Coarse-grained to very coarse-grained sand (75% sand, 15% silt, 10% gravel), well sorted, angular to subrounded. Brown silt (7.5YR 4/4) and reddish gray to gray sand and gravel (5YR 5/3-5/1). Quartzite, granite, chert, sandstone, and trace intermediate volcanics. NOTE: Quartzite grains are the more rounded fraction in the sample.
NEP 246	1225-1230	Coarse-grained to very coarse-grained sand (75% sand. 15% silt, 10% gravel), well sorted, angular to subrounded. Brown silt (7.5YR 4/4) and reddish gray to gray sand and gravel (5YR 5/3-5/1). Quartzite, granite, chert, sandstone, and trace intermediate volcanics. NOTE: Quartzite grains are the more rounded fraction in the sample.
NEP 247	1230-1235	Medium to coarse-grained sand (90% sand, 10% silt, trace gravel), well sorted, angular to subrounded. Brown silt (7.5YR 4/4) and reddish gray to gray sand and gravel (5YR 5/3-5/1). Quartzite, granite, chert, sandstone, and trace intermediate volcanics.
NEP 248	1235-1240	Silt and medium to coarse-grained sand (50% silt, 50% sand, trace gravel), moderately sorted, angular to subrounded grains. Brown silt (7.5YR 4/4) and reddish gray to gray sand and gravel (5YR 5/3-5/1). Quartzite, granite, chert, sandstone, and trace intermediate volcanics.
NEP 249	1240-1245	Sandy pebble gravel (60% gravel, 25% medium to coarse-grained sand, 15% silt), moderately sorted, angular to subrounded grains. Brown silt (7.5YR 4/4) and reddish gray to gray sand and gravel (5YR 5/3-5/1). Quartzite, granite, chert, sandstone, and trace intermediate volcanics.
NEP 250	1245-1250	Medium to coarse-grained sand (75% sand, 25% silt, trace gravel), well sorted, angular to subrounded. Brown silt (7.5YR 4/4) and reddish gray to gray sand and gravel (5YR 5/3-5/1). Quartzite, granite, chert, sandstone, and trace intermediate volcanics.
NEP 251	1250-1255	Medium to coarse-grained sand (75% sand, 25% silt, trace gravel), well sorted, angular to subrounded. Brown silt (7.5YR 4/4) and reddish gray to gray sand and gravel (5YR 5/3-5/1). Quartzite, granite, chert, sandstone, and trace intermediate volcanics.

NEP 252	1255-1260	Medium to coarse-grained sand (75% sand, 25% silt, trace gravel), well sorted, angular to subrounded. Brown silt (7.5YR 4/4) and reddish gray to gray sand and gravel (5YR 5/3-5/1). Quartzite, granite, chert, sandstone, and trace intermediate volcanics.
NEP 253	1260-1265	Medium to coarse-grained sand (75% sand, 25% silt, trace gravel), well sorted, angular to subrounded. Brown silt (7.5YR 4/4) and reddish gray to gray sand and gravel (5YR 5/3-5/1). Quartzite, granite, chert, sandstone, and trace intermediate volcanics.
NEP 254	-	Medium to ained sand (75% sand, 25% silt, trace gravel), well sorted, angular to subrounded. Brown silt (7.5YR 4/4) and reddish gray to gray sand and gravel (5YR 5/3-5/1). Quartzite, granite, chert, sandstone, and trace intermediate volcanics.
NEP 255	1270-1275	Medium to coarse-grained sand (75% sand, 25% silt, trace gravel), well sorted, angular to subrounded. Brown silt (7.5YR 4/4) and reddish gray to gray sand and gravel (5YR 5/3-5/1). Quartzite, granite, chert. sandstone, and trace intermediate volcanics.
NEP 256	1275-1280	Fine to medium sand (90% sand. 10% silt, trace gravel), well sorted, angular to subrounded. Brown silt (7.5YR 4/4) and reddish gray to gray sand and gravel (5YR 5/3-5/1). 50% Quartzite, 20% granite, 20% chert, and 10% intermediate volcanics.
NEP 257	1280-1285	Fine to medium sand (90% sand, 10% silt, trace gravel), well sorted, angular to subrounded. Brown silt (7.5YR 4/4) and reddish gray to gray sand and gravel (5YR 5/3-5/1). Quartzite, granite, chert, and intermediate volcanics.
NEP 258	1285-1290	Fine to medium sand (90% sand, 10% silt, trace gravel), well sorted, angular to subrounded. Brown silt (7.5YR 4/4) and reddish gray to gray sand and gravel (5YR 5/3-5/1). Quartzite, granite, chert, and intermediate volcanics.
NEP 259	1290-1295	Fine to medium sand (90% sand, 10% silt, trace gravel), well sorted, angular to subrounded. Brown silt (7.5YR 4/4) and reddish gray to gray sand and gravel (5YR 5/3-5/1). Quartzite, granite, chert, and intermediate volcanics.
NEP 260	1295-1300	Medium to very coarse-grained sand (75% sand, 10% gravel, 5% silt coatings on grains) moderately sorted, angular to subangular. Brown silt (7.5YR 4/4) and reddish gray to gray sand and gravel (5YR 5/3-5/1). Quartzite, granite, chert, and intermediate volcanics.
NEP 261	1300-1305	Medium to very coarse-grained sand (75% sand, 10% gravel, 5% silt coatings on grains), moderately sorted, angular to subangular. Brown silt (7.5YR 4/4) and reddish gray to gray sand and gravel (5YR 5/3-5/1). Quartzite, granite, chert, and intermediate volcanics.
NEP 262	1305-1310	Fine to medium sand (90% sand, 10% silt, trace gravel), well sorted, angular to subrounded. Brown silt (7.5YR 4/4) and reddish gray to gray sand and gravel (5YR 5/3-5/1). Ouartzite, granite, chert, and intermediate volcanics.
NEP 263	1310-1315	Fine to medium sand (90% sand, 10% silt, trace gravel), well sorted, angular to subrounded. Brown silt (7.5YR 4/4) and reddish gray to gray sand and gravel (5YR 5/3-5/1). Quartzite, granite, chert, and intermediate volcanics.
NEP 264	1315-1320	Medium to coarse-grained sand (90% sand, 10% silt, trace gravel), moderately sorted, angular to subrounded. Brown silt (7.5YR 4/4) and reddish gray to gray sand and gravel (5YR 5/3-5/1). Quartzite, granite, chert, and intermediate volcanics.

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INEP 200	1320-1323	moderately sorted, angular to subrounded. Brown silt (7.5YR 4/4) and reddish gray to gray sand and gravel (5YR 5/3-5/1). Quartzite, granite, chert, and intermediate volcanics.
NEP 266	1325-1330	Clean medium to very coarse-grained sand (95% sand, 5% gravel), moderately sorted, angular to subrounded. Reddish gray to gray sand and gravel (5YR 5/3-5/1). Quartzite, granite, chert, and intermediate volcanics
NEP 267	1330-1335	Medium to very coarse-grained sand (85% sand, 10% silt, 5% gravel), moderately sorted, angular to subrounded. Brown silt (7.5YR 4/4) and reddish gray to gray sand and gravel (5YR 5/3-5/1). Quartzite, granite, chert, and intermediate volcanics.
NEP 267	1335-1340	Medium to very coarse-grained sand (85% sand, 10% silt, 5% gravel), moderately sorted, angular to subrounded. Brown silt (7.5YR 4/4) and reddish gray to gray sand and gravel (5YR 5/3-5/1). Quartzite, granite, chert, and intermediate volcanics.
NEP 268	1340-1345	Medium to very coarse-grained sand (85% sand, 10% silt, 5% gravel), moderately sorted, angular to subrounded. Brown silt (7.5YR 4/4) and reddish gray to gray sand and gravel (5YR 5/3-5/1). Quartzite, granite, chert, and intermediate volcanics.
NEP 269	1345-1350	Medium to very coarse-grained sand (85% sand, 10% silt, 5% gravel), moderately sorted, angular to subrounded. Brown silt (7.5YR 4/4) and reddish gray to gray sand and gravel (5YR 5/3-5/1). Quartzite, granite, chert, and intermediate volcanics.
NEP 270	1350-1355	Clayey sand (50% sand, 45% clay, 5% gravel), moderately sorted, subangular to subrounded. Brown clay (7.5YR 4/4) and reddish gray to gray sand and gravel (5YR 5/3-5/1). Quartzite, chert and granite.
NEP 271	1355-1360	Clayey sand (50% sand, 45% clay, 5% gravel), moderately sorted, subangular to subrounded. Brown clay (7.5YR 4/4) and reddish gray to gray sand and gravel (5YR 5/3-5/1). Quartzite, chert and granite.
NEP 272	1360-1365	Clayey sand (50% sand, 45% clay, 5% gravel), moderately sorted, subangular to subrounded. Brown clay (7.5YR 4/4) and reddish gray to gray sand and gravel (5YR 5/3-5/1). Quartzite, chert and granite.
NEP 273	1365-1370	Clayey sand (50% sand, 45% clay, 5% gravel), moderately sorted, subangular to subrounded. Brown clay (7.5YR 4/4) and reddish gray to gray sand and gravel (5YR 5/3-5/1). Quartzite, chert and granite.
NEP 274	1370-1375	Silty/clayey coarse-grained sand (70% sand, 30% silt/clay), moderately sorted, subangular to subrounded. Brown silt/(7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1). Quartzite, chert and granite.
NEP 275	1375-1380	Silty/clayey coarse-grained sand (70% sand, 30% silt/clay), moderately sorted, subangular to subrounded. Brown silt/(7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1). Quartzite, chert and granite.
NEP 276	1380-1385	Silty/clayey coarse-grained sand (70% sand, 30% silt/clay), moderately sorted, subangular to subrounded. Brown silt/(7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1). Quartzite, chert and granite.
NEP 277	1385-1390	Silty/clayey coarse-grained sand (70% sand, 30% silt/clay), moderately sorted, subangular to subrounded. Brown silt/(7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1). Quartzite, chert and granite.

NEP 278	1390-1395	Silty/clayey coarse-grained sand (70% sand, 30% silt/clay), moderately sorted, subangular to subrounded. Brown silt/(7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1). Quartzite, chert and granite.
NEP 279	1395-1400	Silty/clayey coarse-grained sand (70% sand, 30% silt/clay), moderately sorted, subangular to subrounded. Brown silt/(7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1). Quartzite, chert and granite.
NEP 280	1400-1405	Silty/clayey coarse-grained sand (70% sand, 30% silt/clay), moderately sorted, subangular to subrounded. Brown silt/clay (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1). Quartzite, chert and granite.
NEP 281	1405-1410	Sandy clay (65% clay, 35% fine sand), moderately sorted, subangular to subrounded. Brown clay (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1).
NEP 282	1410-1415	Silty/clayey fine sand (50% sand, 50% silt/clay), moderately to well sorted, subangular to subrounded. Brown silt/clay (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1).
NEP 283	1415-1420	Silty/clayey fine sand (50% sand, 50% silt/clay), moderately to well sorted, subangular to subrounded. Brown silt/clay (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1).
NEP 284	1420-1425	Sandy silt/clay (60% silt/clay, 40% sand), moderately to well sorted, subangular to subrounded. Brown clay (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1).
NEP 285	1425-1430	Sandy silt/clay (60% silt/clay, 40% sand), moderately to well sorted, subangular to subrounded. Brown silt/clay (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1).
NEP 286	1430-1435	Sandy silt/clay (60% silt/clay, 40% sand), moderately to well sorted, subangular to subrounded. Brown silt/clay (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1).
NEP 287	1435-1440	Sandy silt/clay (60% silt/clay, 40% sand), moderately to well sorted, subangular to subrounded. Brown silt/clay (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1).
NEP 288	1440-1445	Sandy silt/clay (60% silt/clay, 40% sand), moderately to well sorted, subangular to subrounded. Brown silt/clay (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1).
NEP 289	1445-1450	Silty/clayey fine sand (50% sand, 50% silt/clay), moderately to well sorted, subangular to subrounded. Brown silt/clay (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1).
NEP 290	1450-1455	Silty/clayey fine sand (50% sand, 50% silt/clay), moderately to well sorted, subangular to subrounded. Brown silt/clay (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1).
NEP 291	1455-1460	Clayey coarse-grained sand (75% sand, 20% clay, 5% gravel), moderately sorted, subangular to subrounded. Brown clay (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1). Quartzite, chert, and granite.
NEP 292	1460-1465	Clayey coarse-grained sand (75% sand, 20% clay, 5% gravel), moderately sorted, subangular to subrounded. Brown clay (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1). Quartzite, chert, and granite.
NEP 293	1465-1470	Clayey coarse-grained sand (75% sand, 20% clay, 5% gravel), moderately sorted, subangular to subrounded. Brown clay (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1). Quartzite, chert, and granite.

NEP 294	1470-1475	Clayey coarse-grained sand (75% sand, 20% clay, 5% gravel), moderately sorted, subangular to subrounded. Brown clay (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1). Quartzite, chert, and granite.				
NEP 295	1475-1480	Clayey coarse-grained sand (75% sand, 20% clay, 5% gravel), moderately sorted, subangular to subrounded. Brown clay (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1). Quartzite, chert, and granite.				
NEP 296	1480-1485	Clayey coarse-grained sand (75% sand, 20% clay, 5% gravel), moderately sorted, subangular to subrounded. Brown clay (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1). Quartzite, chert, and granite.				
NEP 297	1485-1490	Sample Missing				
NEP 298	1490-1496	Sample Missing				
NEP 299	1496-1505	Clayey medium to coarse-grained sand (65% sand, 35% clay), moderately sorted, angular to subrounded. Brown clay (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1). Quartzite, chert, granite, and trace yellowish brown obsidian.				
NEP 300	1505-1515	Clayey medium to coarse-grained sand (65% sand, 35% clay), moderately sorted, angular to subrounded. Brown clay (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1). Quartzite, chert, granite, and trace yellowish brown obsidian.				
NEP 301	1515-1527	5-1527 Clayey medium to coarse-grained sand (65% sand, 35% clay), moderately sorted, angular to subrounded. Brown clay (7.5YR 4/4) and reddish gray to gray sand (5YR 5/3-5/1). Quartzite, chert, granite, and trace yellowish brown obsidian.				

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Table 5: Description of major textural units in a core sample taken from 877.5-881.1 feet at the Noreste Park monitoring well. Lithologic contacts appear gradational.

Interval	Texture/Structure	Color
0.0 (Top)	1 well-rounded, equant, 1-inch diameter quartzite pebble: 1 fragment of hard, carbonate cemented, fine- grained sandstone (non-pedogenic).	10YR 5/1-4/2
0.0-0.3	Very fine-grained silty sand, partly cemented, similar to fragment described above.	7.5-10YR 5/3
0.3-0.55	Massive silty clay with sandstone chips up to 0.5 inches in size.	7.5-10YR 5/3
0.55-1.2	Massive silty clay	5-7.5YR 5/3-6/3
1.2-1.8	Fine-grained, massive, sandy clay with irregular carbonate impregnated zones.	5YR 5/3-7/3
1.8-2.8	Fine to medium-grained sandy clay; same as above	5YR 5/3-7/3
2.8-3.3	Fine to very coarse-grained sandy clay to sandy loam (fine pebble at 3.2) with what appear to be black MnO segregations.	5YR 5/3-7/3
3.3-3.6	Massive, fine to medium-grained sandy clay with calcium carbonate impregnated zones	5YR 5/3-7/3

Table 6: Description of major textural units in a core sample taken from 1486-1496 feet at the Noreste Park monitoring well. NOTE: The core represents an overall, fining-up fluvial sequence.

Interval	Texture/Structure	Color
0-0.1	Slightly calcareous silty clay with minor sand and metamorphic and/or volcanic pebbles.	10YR 5/3
0.1-1.35	Cross-laminated fine to medium sand, with scattered coarse-grained sand.	10YR 6/3-5/3
1.35-1.55	Cross-laminated, very fine to fine sand and silty sand.	10YR 6/3-5/3
1.55-4.15	Fine to coarse-grained sand with scattered granules.	10YR 6/3-5/3
4.15-5.35	Cross-laminated fine to medium sand with scattered coarse-grained sand.	10YR 5/3
	Medium to coarse-grained sand with pebble sized clay	10YR 5/3
	rip-up clasts and scattered pebbles (volcanics, chert, and gneiss/pegmatite).	(Clay: 5YR 5/4)
6.6-7.25	Fining-up medium to coarse-grained sand with cross lamina and heavy mineral segregations. (Coarse-grained sand at the base with fine to medium sand at the top of the sequence.)	10YR 4/3
7.255-7.7	Medium to coarse-grained sand with granules coarsely	10YR 4/3
	laminated with "red" clay drapes (imbricated clay rip-up clasts) in the lower 0.2 feet (from 7.5-7.7).	(Clay: 7.5YR 5/4)
7.7-9.0	Coarsely laminated medium to coarse-grained sand with granules and scattered volcanic pebbles up to 4 cm in diameter.	10YR 5/3-4/3
9.0-9.2	Cross-laminated, fine to medium-grained silty sand.	10YR 5/3
9.2-9.9	Cross-laminated, fine to medium-grained silty sand with scattered granules and pebbles (possibly from the Abo formation.)	10YR 5/3-4/3

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Attachment A Phototlogs of the Noreste Park cuttings samples





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Formation Log

600-606	larger grained sundy gravel some cobble
606-617	finer grain sand w/ silty layers
617 - 618	larger cobbles or cementation
618-624	finer grain sands w/ silty layers note slightly clayer.
624-648	larger grain sands w/ some clayey silt layers
648-650	finer grain tight silty clay/ clayey silt
\$650-683	gets sandier w/some cementation less silt
683 - 696	larger sands & gravels w/silty lenses.
696-721	gets tighter & larger grained took some mud
721-730	softer silty sand medium muddy takes fluid 7
730-742	loosing much sandier larger grained samples su
742-744	larger Sandy gravel some cobbic or concretion
744 - 768	took mud 753 gets fighter
768-775	gets siltier I some sandy layers poorly cementi
775-808	gets sandier larger grained softer some silty layers?
808-	Sitty sand/ sandy sitt tighter could be clayey tight / core point as per Hawley

Drill times 605-675 625-645 645-665 665-685 685-705 705-725 725-745	$\frac{\text{tursday } 5-13}{8:27 - 9:38}$ $9:42 - 10:40$ $10:56 - 12:02$ $12:12 - 1:30$ $1:34 - 2:53$ $2:57 - 4:24$ $4:28 - 5:00$	71 minutes some cobble 58 minutes silts finergi 66 minutes 78 minutes coavser 79 minutes 87 minutes softer from 21 50 minutes to water? mix mix
<u>Wtanour</u> 5 H 745-765 765-785 785-805 805-814	7:51-8:33 mix mud 10:15-11:35 11:41-12:57 2:28-4:00	9:16-10:08 <u>94</u> covarse 80 minutes sotter 76 minutes S.B. dumpster 90 minutes

Depth	Silt/Clay	Sand	Gravel
0-15	5.00	85.00	10.00
15-25	5.00	20.00	75.00
25-35	5.00	80.00	15.00
35-55	15.00	55.00	30.00
55-60	40.00	30.00	30.00
60-70	15.00	70.00	15.00
70-115	10.00	45.00	45.00
115-120	30.00	60.00	10.00
120-145	0.00	55.00	45.00
145-222	0.00	90.00	10.00
222-242	0.00	0.00	100.00
242-255	0.00	10.00	90.00
255-325	50.00	45.00	5.00
325-370	70.00	25.00	5.00
370-380	5.00	90.00	5.00
380-386	0.00	100.00	0.00
386-400	15.00	80.00	5.00
400-410	55.00	45.00	0.00
410-430	15.00	80.00	5.00
430-442	7.00	90.00	2.00
442-515	35.00	60.00	5.00
515-600	30.00	70.00	0.00
600-650	15.00	25.00	60.00
650-695	20.00	65.00	15.00
695-715	15.00	80.00	5.00
715-725	58.00	40.00	2.00
725-745	35.00	60.00	5.00
745-800	15.00	85.00	0.00
800-817	55.00	40.00	5.00
817-842	0.00	55.00	45.00
842-880	0.00	50.00	50.00
880-885	70.00	15.00	15.00
885-965	30.00	70.00	0.00
965-1060	15.00	85.00	0.00
1060-1150	40.00	60.00	0.00
1150-1155	95.00	5.00	0.00
1155-1160	39.00	60.00	1.00
1160-1165	99.00	1.00	0.00
1165-1170	70.00	25.00	5.00
1170-1175	20.00	75.00	5.00
1175-1180	95.00	5.00	0.00
1180-1190	40.00	60.00	0.00
1190-1205	15.00	80.00	5.00
1205-1230	15.00	75.00	10.00
1230-1235	10.00	94.00	1.00
1235-1240	49.00	50.00	1.00
1240-1245	15.00	25.00	60.00
1245-1245	25.00	74.00	1 00
1275-1205	10.00	89.00	1.00
1205-1205	5.00	75.00	10.00
1205-1215	10.00	80.00	1 00
1000-1010	10.00	09.00	1.00

1315-1325	8.00	90.00	2.00
1325-1330	0.00	95.00	5.00
1330-1345	10.00	85.00	5.00
1345-1350	30.00	65.00	5.00
1350-1370	45.00	50.00	5.00
1370-1405	30.00	70.00	0.00
1405-1410	65.00	35.00	0.00
1410-1455	50.00	50.00	0.00
1455-1485	20.00	75.00	5.00
1485-1496	0.00	0.00	0.00
1496-1527	34.00	65.00	1.00







Nor Este Noreste Park Monitoring Well

Core Interval 1486-1496 Core Drive Shoe Interval silty clay w/ minor sand and pebbles -> igneous at volumes LO YR ST. 0 - 0.1 fine-med sand, scattered coarse. X-buinneted 10 YR 6-5/3 0.1-1.35 v. Fine-fine sand, silty sand. X-laminated 1.35-1.55 10 VAR 6-5/3 fine- wed sound, scattered granules. 10 YR 6-5/3 fine-med sound, scattered coarse. X-laminated 10 YR 5/3 1.55-4.15 4.15-5.35 med-coarse sand. Pebble-sized day rip-ups(red) - 5/4 and scattered pebbles (volcanic, chert, gneiss/pegmatite) 10 41 5/3 5.35-6.6 fining-up -> med.-coarse sand sand at base, fine-med 104R sand at top. sequence is <u>x-laminated</u>. Heavy 104R sample Bag: (over) mineral searegations 4/3 6-6-7.25 Core#2 > overall, fining-up fluvial sequence

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Werl Name: Noreste Park Site (USGS-COA) File Name: C:\VLW\LOGS\NORESTE\NEPC.HDR Location: Bernalillo County, Alameda 7.5' quadrangle Elevation: 0 Reference: Ground Surface

Feet	Caliper	SP	64N Res	Lateral Res	16N Res	Silt/Clay
	10 (in) 20	30 (mV) 90	0 (ohmm) 300 Smooth Gamma	0 (ohmm) 200 Ind Res	0 (ohmm) 300 Ind Cond	0 (%) 100 Sand/Gravel
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