Grand Gulf Nuclear Station
Well Construction Summary [1]

Well ID	Installation Type	Date Installed	Formation	Groundwater Unit of Screened Interval	Northing (MS State Plane West NAD83)	Easting (MS State Plane West NAD83)	Approx. Surface Completion Elevation (ft NAVD88)	Approx. Top of Screened Interval (ft NAVD1988)	Approx. Base of Screened Interval (ft NAVD1988)	Casing Diameter (inches)	Casing Material
Wells Screened in Loess											
MW-1007A	Monitoring Well	2006 [3]	Loess	Perched	913345.7	2073940.8	133.26	83.26	68.86	2	PVC
MW-1016A	Monitoring Well	2006 [3]	Loess	Perched	913915.7	2073923.8	158.10	90.47	81.07	2	PVC
MW-1019A	Monitoring Well	2006 [3]	Loess	Perched	913975.7	2074117.8	133.73	92.03	82.63	2	PVC
MW-1023A	Monitoring Well	2006 [3]	Loess	Perched	913868.7	2073439.8	157.63	90.23	80.83	2	PVC
MW-1024A	Monitoring Well	2006 [3]	Loess	Perched	914465.7	2073735.8	158.16	105.78	86.38	2	PVC
MW-1025A	Monitoring Well	2006 [3]	Loess	Perched	914385.7	2074413.8	147.77	92.51	78.11	2	PVC
MW-1026A	Monitoring Well	2006 [3]	Loess	Perched	913967.7	2074694.8	131.62	101.56	92.16	2	PVC
MW-1027A	Monitoring Well	2006 [3]	Loess	Perched	913129.6	2074227.8	133.08	98.21	83.81	2	PVC
MW-1033A	Monitoring Well	2006 [3]	Loess	Perched	911999.6	2072947.8	158.18	100.35	85.95	2	PVC
MW-1040A	Monitoring Well	2006 [3]	Loess	Perched	912992.6	2072830.8	161.30	89.13	79.73	2	PVC
MW-1043A	Monitoring Well	2006 [3]	Loess	Perched	913444.7	2073197.8	121.39	91.51	77.11	2	PVC
MW-1134A	Monitoring Well	2006 [3]	Loess	Perched	912668.6	2073888.8	136.19	88.64	79.24	2	PVC
Wells Screened in Upland Complex/Mississippi River Alluvial Aquifer (UC/MRAA)											
DW-01	Dewatering Well	1972 [3]	Backfill	Powerblock Backfill [2]	912729.4	2075353.6	136.16	86	81	10	Steel
DW-02	Dewatering Well	1972 [3]	Backfill	Powerblock Backfill [2]	912966.6	2075250.0	137.08	86	81	10	Steel
DW-03	Dewatering Well	1972 [3]	Backfill	Powerblock Backfill [2]	913065.7	2075065.8	134.36	86	81	10	Steel
DW-04	Dewatering Well	1972 [3]	Backfill	Powerblock Backfill [2]	912918.1	2074947.4	133.38	86	81	10	Steel
DW-05	Dewatering Well	1972 [3]	Backfill	Powerblock Backfill [2]	913345.8	2074968.4	134.08	87.9	82.9	10	Steel
DW-06	Dewatering Well	1972 [3]	Backfill	Powerblock Backfill [2]	912667.0	2074685.6	132.7	84.3	89.3	10	Steel
DW-07	Dewatering Well	1972 [3]	Backfill	Powerblock Backfill [2]	912520.6	2074944.3	134.18	95	90	10	Steel
DW-08	Dewatering Well	1972 [3]	Backfill	Powerblock Backfill [2]	912178.0	2075054.1	134.16	106.2	101.2	10	Steel
MW-01	Monitoring Well	1976	Backfill	Powerblock Backfill [2]	912974.7	2075351.7	134.80	93.2	91.2	6	PVC
MW-02	Monitoring Well	1976	Backfill	Powerblock Backfill [2]	913078.9	2075066.7	134.31	90.5	88.5	2	PVC
MW-03	Monitoring Well	1976	Backfill	Powerblock Backfill [2]	913467.3	2075055	135.5	92.6	90.6	6	PVC
MW-06	Monitoring Well	1976	Backfill	Powerblock Backfill [2]	912554.5	2074900.8	134.5	96.6	94.6	6	PVC
MW-07	Monitoring Well	1976	Backfill	Powerblock Backfill [2]	912728.1	2075352.4	134.33	84.89	83.43	6	PVC
MW-08	Monitoring Well	NA	Upland Complex	UC/MRAA	NA	NA	134	31.8	41.8	2	PVC
MW-09	Monitoring Well	9/15/1986	Upland Complex	UC/MRAA	912161.2	2075451.1	134.85	95.43	85.43	2	PVC
MW-10	Monitoring Well	9/16/1986	Upland Complex	UC/MRAA	911640.2	2075108.1	134.30	101.65	91.65	2	PVC

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Well ID	Installation Type	Date Installed	Formation	Groundwater Unit of Screened Interval	Northing (MS State Plane West NAD83)	Easting (MS State Plane West NAD83)	Approx. Surface Completion Elevation (ft NAVD88)	Approx. Top of Screened Interval (ft NAVD1988)	Approx. Base of Screened Interval (ft NAVD1988)	Casing Diameter (inches)	Casing Material
OW-05	Observation Well	1972 [3]	Upland Complex	UC/MRAA	915007.9	2075793.8	155.51	54	44	3	PVC
OW-07	Observation Well	1972 [3]	Upland Complex	UC/MRAA	912240.1	2072872.2	158.5	NA	56	1.25	PVC
OW-29A	Observation Well	1972 [3]	Upland Complex	UC/MRAA	914026.2	2073111.1	162.7	NA	29	3	PVC
OW-29B	Observation Well	1972 [3]	Upland Complex	UC/MRAA	913874.2	2073078.3	160.64	NA	6	1	PVC
OW-121	Observation Well	1972 [3]	Upland Complex	UC/MRAA	913632.2	2072992.7	157.29	NA	30	3	PVC
OW-202	Observation Well	1972 [3]	Upland Complex	UC/MRAA	912418	2076414.5	193.8	NA	36	3	PVC
OW-209B	Observation Well	1972 [3]	Upland Complex	UC/MRAA	912900.3	2076067.9	196.77	56	46	3	PVC
P-209	Piezometer	1972 [3]	Upland Complex	UC/MRAA	912841.4	2076113.5	195.8	NA	NA	3	PVC
MW-100B	Monitoring Well	12/2/2010	Upland Complex	UC/MRAA	913627.9	2076513.1	206.89	63.87	53.87	2	PVC
MW-102B	Monitoring Well	11/29/2010	Upland Complex	UC/MRAA	912204.2	2076961.3	163.87	10.04	0.04	2	PVC
MW-103B	Monitoring Well	5/25/2011	Upland Complex	UC/MRAA	911095.2	2076857.3	163.74	125.59	105.59	2	PVC
MW-104B	Monitoring Well	5/26/2011	Upland Complex	UC/MRAA	910425.7	2075215.4	181.94	139.20	119.20	2	PVC
MW-105B	Monitoring Well	5/24/2011	Upland Complex	UC/MRAA	912887.0	2076091.0	198.17	64.32	44.32	2	PVC
MW-106B	Monitoring Well	12/1/2010	Upland Complex	UC/MRAA	912935.5	2077131.8	172.80	39.84	29.84	2	PVC
MW-107B	Monitoring Well	12/7/2010	Upland Complex	UC/MRAA	912436.2	2074916.2	135.41	102.56	92.56	2	PVC
MW-108B	Monitoring Well	6/8/2011	Upland Complex	UC/MRAA	912561.4	2074752.5	135.60	102.93	92.93	2	PVC
MW-109B	Monitoring Well	12/7/2010	Upland Complex	UC/MRAA	912654.2	2074681.1	135.73	102.59	97.59	2	PVC
MW-110B	Monitoring Well	12/15/2010	Upland Complex	UC/MRAA	912825.6	2074392.6	135.42	103.01	93.01	2	PVC
MW-111B	Monitoring Well	5/17/2011	Upland Complex	UC/MRAA	912753.2	2075421.8	135.07	101.30	91.30	2	PVC
MW-112B	Monitoring Well	6/8/2011	Upland Complex	UC/MRAA	913025.4	2075570.3	134.84	102.26	92.26	2	PVC
MW-113B	Monitoring Well	5/11/2011	Upland Complex	UC/MRAA	913413.1	2075764.8	127.86	94.87	84.87	2	PVC
MW-114B	Monitoring Well	5/12/2011	Upland Complex	UC/MRAA	911132.2	2074968.3	135.20	95.34	85.34	2	PVC
MW-115B	Monitoring Well	10/28/2011	Upland Complex	UC/MRAA	912660.5	2075299.3	135.38	98.67	88.67	2	PVC
MW-118B	Monitoring Well	11/2/2011	Upland Complex	UC/MRAA	912687.7	2075406.7	134.82	99.07	89.07	2	PVC
SW-101	Sentinel Well	10/25/2011	Pipe Backfill	NA	913450.1	2073001.1	114.18	94.80	89.80	4	PVC
SW-102	Sentinel Well	10/25/2011	Pipe Backfill	NA	913536.1	2072821.5	105.30	85.76	80.76	4	PVC
SW-103B	Sentinel Well	11/3/2011	Upland Complex	UC/MRAA	913632.6	2072618.8	93.14	75.37	70.37	2	PVC
MW-1007B	Monitoring Well	2006 [3]	Upland Complex	UC/MRAA	913331.7	2073931.8	133.51	55.76	41.36	2	PVC
MW-1009B	Monitoring Well	2006 [3]	Upland Complex	UC/MRAA	913499.7	2073805.8	134.03	59.63	35.23	6	PVC
MW-1012B	Monitoring Well	2006 [3]	Upland Complex	UC/MRAA	913557.7	2073850.8	134.18	59.89	35.49	6	PVC
MW-1016B	Monitoring Well	2006 [3]	Upland Complex	UC/MRAA	913902.7	2073915.8	158.34	60.47	41.07	4	PVC
MW-1019B	Monitoring Well	2006 [3]	Upland Complex	UC/MRAA	913964.7	2074107.8	133.46	45.03	25.63	2	PVC
MW-1020B	Monitoring Well	2006 [3]	Upland Complex	UC/MRAA	913872.7	2074423.8	132.46	72.1	52.7	2	PVC
MW-1022B	Monitoring Well	2006 [3]	Upland Complex	UC/MRAA	914208.7	2074309.8	133.50	43.97	24.57	2	PVC
MW-1023B	Monitoring Well	2006 [3]	Upland Complex	UC/MRAA	913853.7	2073440.8	157.72	75.23	55.83	2	PVC
MW-1024B	Monitoring Well	2006 [3]	Upland Complex	UC/MRAA	914452.7	2073727.8	158.35	65.78	46.38	2	PVC
MW-1025B	Monitoring Well	2006 [3]	Upland Complex	UC/MRAA	914377.7	2074427.8	147.12	57.51	38.11	2	PVC
MW-1026B	Monitoring Well	2006 [3]	Upland Complex	UC/MRAA	913961.7	2074694.8	131.75	51.56	32.16	2	PVC
MW-1027B	Monitoring Well	2006 [3]	Upland Complex	UC/MRAA	913119.6	2074226.8	132.83	49.21	34.81	2	PVC
MW-1033B	Monitoring Well	2006 [3]	Upland Complex	UC/MRAA	911992.6	2072939.8	158.48	70.35	65.95	2	PVC
MW-1040B	Monitoring Well	2006 [3]	Upland Complex	UC/MRAA	912982.6	2072828.8	161.41	64.13	44.73	4	PVC
MW-1042B	Monitoring Well	2006 [3]	Alluvium	UC/MRAA	915007.7	2073146.8	87.03	51.82	37.42	2	PVC
MW-1043B	Monitoring Well	2006 [3]	Upland Complex	UC/MRAA	913437.7	2073211.8	121.78	61.51	47.11	2	PVC

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North Construction Well	Production Well	9/1/1976	Upland Complex	UC/MRAA	914174.0 [4]	2073197.8 [4]	140 [4]	23 [4]	-14 [4]	24	Stainless Steel

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Wells Screened in Catahoula Formation											
MW-1007C	Monitoring Well	2006 [3]	Catahoula	Catahoula	913338.7	2073925.8	133.10	-15.14	-29.54	4	PVC
MW-1009C	Monitoring Well	2006 [3]	Catahoula	Catahoula	913486.7	2073808.8	134.05	-13.87	-33.27	4	PVC
MW-1012C	Monitoring Well	2006 [3]	Catahoula	Catahoula	913556.7	2073840.8	134.23	-15.61	-35.01	4	PVC
MW-1020C	Monitoring Well	2006 [3]	Catahoula	Catahoula	913881.7	2074405.8	132.54	12.1	-7.3	4	PVC
MW-1024C	Monitoring Well	2006 [3]	Catahoula	Catahoula	914463.7	2073721.8	158.35	0.98	-18.42	4	PVC
MW-1027C	Monitoring Well	2006 [3]	Catahoula	Catahoula	913124.6	2074218.8	133.18	-24.79	-34.19	2	PVC
MW-1042C	Monitoring Well	2006 [3]	Catahoula	Catahoula	915015.7	2073137.8	86.47	0.81	-13.59	2	PVC
MW-1082C	Monitoring Well	2006 [3]	Catahoula	Catahoula	910288.6	2072691.7	199.12	47.04	27.64	4	PVC
MW-1134C	Monitoring Well	2006 [3]	Catahoula	Catahoula	912654.6	2073874.8	136.85	-19.78	-29.18	4	PVC

1. Information developed from various sources - elevation values are approximate pending validation of reference plane updates
2. While backfill around the power block is in communication with the groundwater in the Upland Complex, its characteristics may not reflect those in the native material
3. Installation dates are inferred from dates on boring logs, historical potentiometric surface maps, and well level data records.
4. Location coordinates and surface completion elevation is based on Google Earth rather than surveyed locations; thus approximate elevations of top and bottom of well screens are also referenced to the Google Earth indicated surface elevation.

Entergy GGNS
Notes on Monitoring Installation Position Datums
20110803 cln

Vertical Datums

Well Grouping	Nomenclature	Vertical Datum
FTN	MW-1XXY	All survey data originally reported in NAVD88
COLA	MW1XXXY	Table 2.4.12-201 denotes ft. MSL as datum Original boring logs denote vertical datum as NGVD29 Ground surface elevations in the table are the same as NGVD elevations on boring logs Table 2.4.12-201 is a summary of boring log data Boring log data trumps summary table Summary table ground surface elevations should be denoted as "ft NGVD29" not "ft MSL" Assume that TOC elevations should also be "ft NGVD" not "ft MSL"
Historical	MW-XX P-XX(X) OW-XX(X)(Y)	Regularly utilized wells have been recently resurved with FTN installations Other wells are either denoted in the UFSAR as referenced to "ft MSL" or are not denoted and assumed to be in "ft MSL"

Horizontal Datums

Well Grouping	Nomenclature	Horizontal Datum
FTN	MW-1XXY	All survey data originally reported in MS State Plane West, NAD83
COLA	MW1XXXY	COLA Table 2.5.210 denotes datum as MS State Plane, NAD27 Coordinates converted to MS State Plane West, NAD83
Historical	MW-XX P-XX(X) OW-XX(X)(Y)	Regularly utilized wells have been recently resurved with FTN installations Horizontal information for other wells could not be located in the UFSAR or other sources Coordinates for these installations were collected using a hand-held GPS in WGS84 WGS84 coordinates were then converted to MS State Plane West, NAD83

Nomenclature

X	Number
Y	Letter (A, B, C) denoting aquifer (Perched, UC/MRAA, Catahoula, respectively)