Site Sampling Plan

Santa Fe County
Hyde Park Estates
Public Water System

SANTA FE COUNTY

New Mexico Public Water System ID # NM3544926
Santa Fe County Hyde, Park Estates
424 NM Santa Fe, NM 87507
Phone: 505-992-3045
Santa Fe County Utilities Division

Revised By: **Angel Flores**
Date: **March 2026**

Reviewed and Approved by NMED - DWB Compliance Officer _____

SYSTEM DESCRIPTION & CONTACT INFORMATION:

Santa Fe County (SFC), Hyde Park Estates (HPE) water system consist of approximately 183 residential customers and 79 metered connections. HPE is classified as Community water system in accordance with the New Mexico Enviorment Department (NMED), Drinking Water Regulations 20.7.10 NMAC. HPE consists of a 1.5 HP booster pump, ultraviolet disinfection treatment, two (2), 25,000 gallon welded steel above ground storage tanks, five (5) hydrants and a distribution system. HPE distribution network consisting of 4" C-900 PVC and ductile iron pipe totaling 14,690ft.

HPE source water is supplied by ground and surface water from the City of Santa Fe. HPE water system is interconnected with the Buckman Regional Water Treatment Plant (NM3502826) and the City of Santa Fe Water System (NM3505126). Currently HPE water system is served by four sources: one (1) surface water source from the Rio Grande which is treated through advanced processes at the Buckman Regional Water Treatment Plant, two (2) ground water sources from 13 wells in the City's Buckman Well Field located approximately 15 miles northwest of Santa Fe, three (3) surface water source from the Santa Fe River, which is treated through conventional processes at the City's Canyon Road Water Treatment Plant, and; four (4) ground water source from 8 active wells in the City's Well Field (mostly located in close proximity to the Santa Fe River).

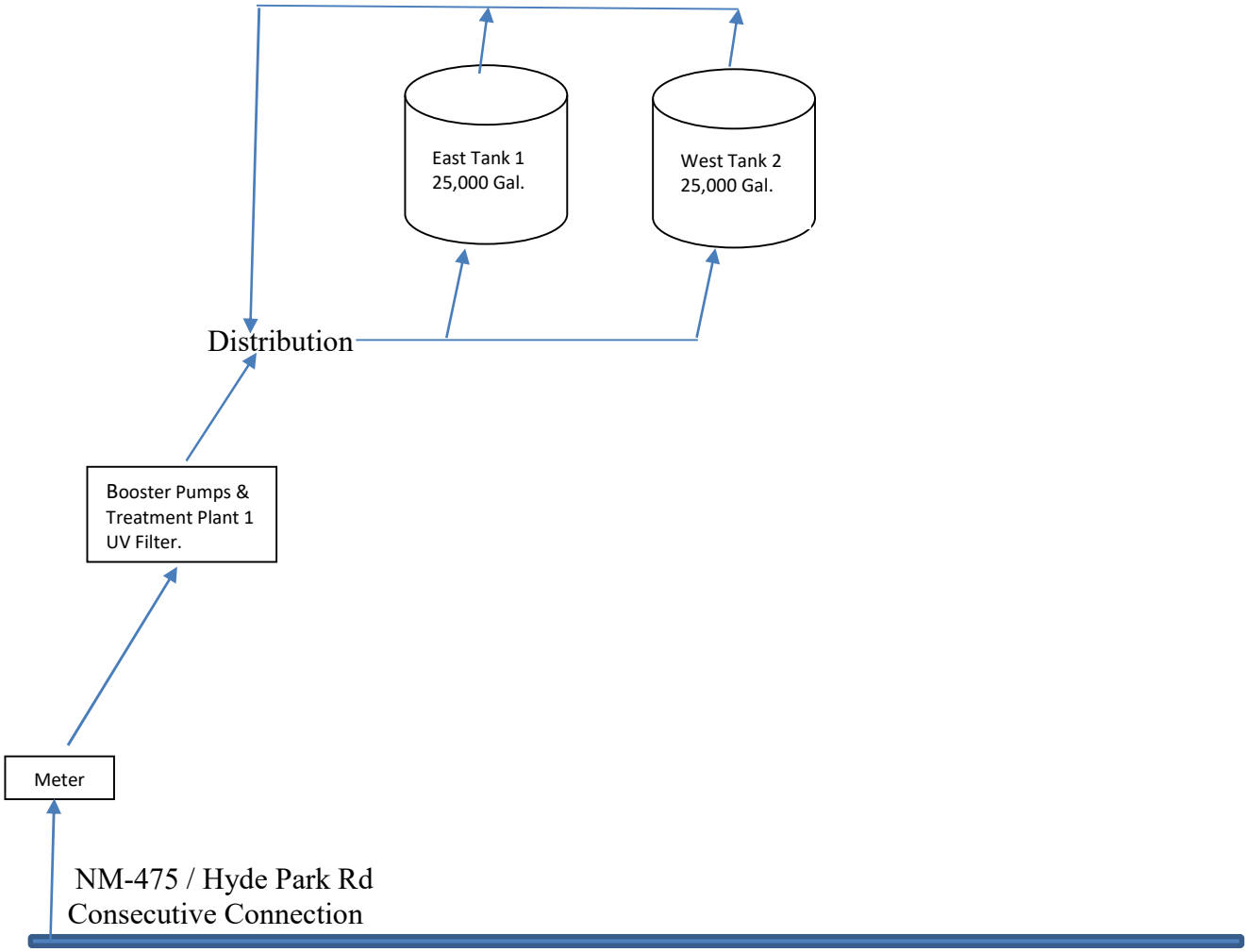
Facility Contact Information

Administrative Contact:	*Travis Soderquist, Santa Fe County Utilities Director* *tsoldequist@santafecountynm.gov* *505-992-9872, 505-470-3441* *Jason Crichton Santa Fe County Utilities Deputy Dirictor* *jcrichton@santafecountynm.gov 505-992-9872*
SFC Certified Operators:	*Rubel Gallegos, Water Operator Level 4, Op ID: 15551* *Issac Quintana, Water Operator Level 4, Op ID: 18792* *Angel Flores, Water Operator Level II, Op ID: 00059*
NMED-DWB Compliance Officer:	*Elias Liakos, Compliance Officer* *New Mexico Environment Department* *Drinking Water Bureau* *P.O. Box 5469, Santa Fe, NM 87059* *505-476-8648 Or 505-670-6090* *elias.liakos@env.nm.gov*
NMED-DWB Lead and Copper Rule Administrator:	*Elias Liakos, Lead and Copper Rule Administrator* *New Mexico Environment Department* *Drinking Water Bureau* *1190 S. Saint Francis Dr, Santa Fe, NM 87505 87* *505-670-6090 elias.liakos@env.nm.gov*

NMED-DWB Disinfection By-Products Rule Administrator:	*Jayson Romero, Stage 2 DPB Rule* *New Mexico Environment Department* *Drinking Water Bureau* *P.O. Box 5469, Santa Fe, NM 87059* *505-476-8648 Or 505-490-5363 jayson.romero@env.nm.gov*
NMED-DWB Consumer Confidence Report Rule Administrator:	*Cindy Ortega, CCR Rule Administrator* *New Mexico Environment Department* *Drinking Water Bureau* *P.O. Box 5469* *Santa Fe, NM 87505-5469* *505-670-9613* *nmenv.ccr@env.nm.gov, cindy.ortega@env.nm.gov*

SITE SAMPLING MAP
Attached - Hyde Park Estates Sample Location Map

SYSTEM SCHEMATIC
SFC, Hyde Park Estates



SYSTEM SAMPLING PLAN:

A. TOTAL COLIFORM SAMPLING

a. ***Frequency****:* Based on the HPE population of 183 customers, SFC is required to collect a minimum of 4 routine Total Coliform sample sites and collect a minimum of 1 sample per month. Typically, 1 sample is collected each month starting with the first full week of the month, although some variation of this schedule occurs to accommodate holidays and unplanned events that prevent sampling.

b. ***Location:*** SFC is required to identify each routine monthly Total Coliform sample locations and the three repeat sites (original, upstream and downstream) with either a physical address or physical location. The routine and repeat sample sites are listed on the SFC, HPE, PWS, RTCR Sample Site Plan spreadsheet attached. A map of HPE distribution system titled: *SFC, HPE, RTCR Sampling Location Map*, which identifies the routine sample sites is attached as Appendix "B".

Routine samples are collected from the following locations at the frequency indicated:

Routine Sample Location Address	(Sample Point ID)	Sample Frequency
2117 Paseo Del Monte	RT001	Jan, May, Sept
2113 Paseo Del Monte	RP001D	
2117 Paseo Del Monte	RP001O	
2116 Paseo Del Monte	RP001U	
3301 Camino Lisa	RT002	Feb, June, Oct
3304 Camino Lisa	RP002D	
3301 Camino Lisa	RP002O	
3300 Camino Lisa	RP002U	
Corner of 2120 Paseo Primero and Paseo D	RT003	March, July, Nov
2120 Paseo Primero	RP003D	
Corner of 2120 Paseo Primero and Paseo D	RP003O	
3205 Paseo Del Monte	RP003U	
3217 Paseo Del Monte	RT004	April, Aug, Dec
2175 Paseo Iglesia	RP004D	
3217 Paseo Del Monte	RP004O	
2171 Paseo Iglesia	RP004U	

These sites were chosen because they are representative of the entire distribution system. Routine and repeat sample sites are detailed in the RTCR Sample Site spreadsheet (attached to this document).

c. ***Sampling Method:*** New Mexico Regulations require that a certified sampler or certified operator of the appropriate level collect these samples. Certified Level II and III operators will collect monthly total coliform samples. Once collected, samples are preserved and transported to the following certified laboratory for analysis:

New Mexico Water Testing
P.O. BOX 1506
Espanola, New Mexico 87532
(505) 929-4545

All sample collection is performed in accordance with the *Santa Fe County Utilities Total Coliform Sampling Standard Operating Procedure (most current version)*.

d. ***Positive Routine Sample Results:*** If any routine sample result is positive for Total Coliform bacteria or E. Coli, SFC will collect the required three repeat samples (one at the original sample site and one each within 5 connections upstream and downstream of the original sample site). SFC is required to contact the City of Santa Fe so that they can collect raw water samples from their active wells (if any) in order to comply with the requirements of the Ground Water Rule (see Ground Water Rule Sampling below). In general, the repeat and raw water samples will be collected as follows:

- The first repeat sample will be collected from the same location as the original positive sample.
- The second sample will be collected from the upstream location designated in the RTCR Sample Site spreadsheet.
- The third sample will be collected from the downstream location designated in the RTCR Sample Site spreadsheet.

If SFC is unable to sample from one of the designated repeat sample locations, SFC can collect a repeat sample from another location within 5 connections upstream or downstream (as applicable) of the original (positive) routine location. If a site within 5 connections other than the site identified in the RTCR Sample Site spreadsheet is used, document the reason.

Additionally, SFC may select a repeat monitoring location that is not within 5 connections upstream or downstream but are expected to better represent pathways of contamination into the distribution system. Alternate repeat sample locations may be selected according to the following Standard Operating Procedure (SOP):

ALTERNATE REPEAT SAMPLE SITE SELECTION STANDARD OPERATING PROCEDURE:

1. Identify the reason(s) that a repeat sample site within 5 connections upstream or downstream of the original positive sample site cannot be used or is unsuitable for a given situation. For example; if a pathway for contamination to enter the system is clearly identifiable (such as a recent line break), a connection closer to the pathway may be more appropriate to sample than a location within 5 connections. Document the determination and any supporting information.
2. Identify the location and suitability of a given proposed alternate repeat sampling location. For example, is the original Total Coliform positive sample result occurred at a location near a connection with the City, it may be more suitable to sample at the point of connection between systems, rather than simply sampling within 5 connections upstream.
3. Propose the alternate repeat sampling location and rational to the appropriate NMED-DWB Compliance Officer (in writing) and coordinate the repeat sampling effort with NMED.
4. Use the alternate repeat sample location only if NMED-DWB agrees to the use of the proposed alternate in writing (email is satisfactory).

e. ***Compliance:*** SFC, HPE water system must conduct a Level 1 assessment and take appropriate corrective actions under the RTCR if:

1) If SFC receives 2 or more positive Total Coliform samples in any one (1) month (e.g.; a routine sample and any repeat sample are both positive for TC), or;
2) If SFC fails to take all the required repeat samples

The Level 1 assessment must be conducted by a Level 3 or Level 4 Certified Water Operator or by a certified operator that has taken specific RTCR training.

SFC's, HPE water system must conduct a Level 2 assessment and take appropriate corrective action under the RTCR if:

- If SFC receives a E. Coli Maximum Contaminant Level (MCL) violation (e.g.; E. Coli is detected in any sample); or
- If SFC receives a E. Coli monitoring violation; or
- If SFC receives a trigger two Level 1 assessments within a rolling 12-month period

Level 2 assessments must be conducted by a Level 3 or Level 4 certified Water Operator or by a certified operator that has taken specific RTCR training.

B. GROUNDWATER RULE SAMPLING

a. ***Frequency****:* Triggered source water samples must be collected from all active ground water supply sources that are not providing a 4-log treatment of viruses at or before the first customer if any of HPE's routine monthly Total Coliform Samples are positive for Total Coliform or E. Coli. There are multiple wells that

can provide water to the HPE's distribution system at any given time (Buckman Well Field, City Well field), and it is the City's responsibility to collect source water samples, even if the trigger levels occur within the County's system Therefore; for every routine Total Coliform or E-Coli positive result that may occur within the HPE water system, the City must be notified as quickly as possible so that they can assess which source(s) were operational on the day that the positive sample was collected, and collect samples from those sources.

b. ***City Contact:*** If any routine monthly Total Coliform or E. Coli sample is positive, SFC will immediately contact the City of Santa Fe Water Resources Manager:

Jonathan Montoya, City of Santa Fe
Water Division Director
(505) 310-9713 (Cell)
(505)955-4373(Office)
jmmontoya@santafenm.gov

c. ***Location:*** Triggered Source Water Samples are required to be collected directly from all wells that were contributing source water to the system on the day that the positive sample was taken and must be collected prior to any treatment. It is important to coordinate with the City to ensure that samples are collected from any operational wells. The daily report sent out via email by the City identifies which wells are operational on any given day.

d. ***Positive Raw Water Sample Result:*** If any of the City's Triggered Water sample results are positive for E-Coli. The NMED, DWB may require additional sampling, corrective action, require the City or County to disinfect the source water to meet 4-log treatment requirements and conduct ongoing source water monitoring.

e. ***Compliance:*** As a purchaser of ground water from the City for the HPE system, SFC is not directly subject to the requirements of the Ground Water Rule. However, SFC is required to take the following actions the system has a positive for Total Coliform or E. Coli:

- Notify the City immediately following any positive sample result in order collect the required triggered source water sample(s),
- Notify the NMED, DWB of any violations, and;
- Coordinate with the City and NMED on corrective actions.

C. DISINFECTANT RESIDUAL SAMPLING

a. ***Frequency****:* SFC is required to sample the residual chlorine. At a minimum, SFC will test residual chlorine at the same time that the monthly Total Coliform Samples are collected.

b. ***Location:*** Samples are taken at the same locations and same time as the Total Coliform Sample sites. The sites were chosen based on the fact that they are

representative of the entire distribution system. (*See attached map for locations of the sample sites*)

c. ***Sampling Method:*** Disinfectant residuals are checked with a HACH pocket colorimeter (filter photometer) using the DPD method (4500-CI G. DPD Colorimetric Method in *Standard Methods for the Examination of Water and Wastewater*, 21st Ed.). Results are recorded on the Total Coliform Chain of Custody Form. It is also recorded on the Disinfectant Residual Quarterly Report that is required to be submitted (typically via email) to NMED, DWB by the 10th day following each quarter. If repeat samples are required, SFC will also collect chlorine residual samples at the same time as the repeat samples.

d. ***Compliance:*** SFC, HPE water system is in compliance if:

- The average of all residuals for the previous 12 months is less than or equal to the MCL of 4.0 mg/L
- SFC will submit its Disinfectant Residual Monitoring Log for each quarter to NMED, DWB no later than the 10th day following the end of each quarter (April 10th, July 10th, Oct. 10th, Jan 10th)

D. DISINFECTION BY-PRODUCT SAMPLING

a. ***Frequency:*** Because the HPE System serves approximately 183 people using chlorine disinfected ground and surface water sources, SFC is required to sample disinfection by-products in accordance with the Stage 2 Disinfection Byproducts Rule. SFC will collect one TTHM-IND and one HAA5-IND sample annually in August and September. SFC will keep track of the sampling schedule listed on the NMED, DWB, Drinking Water Watch Website: https://dww.water.net.env.nm.gov/NMDWW/.

b. ***Location:*** Disinfectant By-Product samples are required to be collected from the following location:

Hyde Park Estates, Disinfection Byproducts Sample Locations

DPB Sample Point ID	Location
TTHM-IND	2132 Paseo Ponderosa
HAA5-IND	3205 Paseo De Monte

c. ***Sampling Method:*** The following steps will be taken during DBP Sampling.

- Sampling bottles are arranged to be shipped to us pre-prepared with preservatives from the following certified laboratory:

Eurofins Analysis Laboratory, Inc.
4901 Hawkins NE
Albuquerque, NM 87109 (505)-345-3975

- A certified Level II operator will collect the samples from the designated sample location, and ensure that the samples are free of air bubbles within the sample bottle.

- A chain of custody forms will be completed, sample bottles will be placed in ice and transported to a certified laboratory for analysis directly upon collection. The time between sample collection and delivery to the analytical laboratory should not exceed 4 hours.

d. ***Compliance:*** Compliance determination is based on annual sampling and the locational running annual average (LRAA). If the LRAA is greater than the MCL SFC will notify the NMED, DWB.

If SFC exceed the operation evaluation level (OEL) for DPBs, SFC must conduct an operational evaluation and submit a written report to NMED, DWB. The OEL for TTHM has been exceeded when the sum of the two previous quarters' TTHM results plus twice the current quarter's TTHM result, divided by 4 (to determine the average), exceeds 0.08 mg/L (80 µg/L). See below:

((Previous QT 1 + Previous QT 2 + (Current QT + Current QT)) ÷ 4 = OEL

The OEL for HAA5 has been exceeded when the sum of the two previous quarters' HAA5 results plus twice the current quarter's TTHM result, divided by 4 (to determine the average), exceeds 0.06 mg/L (60 µg/L). See below:

((Previous QT 1 + Previous QT 2 + (Current QT + Current QT)) ÷ 4 = OEL

Operational evaluations must be submitted to the NMED, DWB designated DBP Rule Administrator within 90 days of learning of sample results that cause us to exceed the OEL.

E. LEAD & COPPER SAMPLING

a. ***Frequency****:* Based upon the population served by the HPE water system, SFC is required to collect five (5) Lead & Copper samples every three (3) years during the period between June 1st and September 30th, begin date January 1, 2013. SFC will keep track of this sampling schedule on the NMED-DWB Drinking Water Watch Website: https://dww.water.net.env.nm.gov/NMDWW/

b. ***Location:*** SFC will designated sample sites within the system as detailed in the following Table:

Hyde Park Estates, Lead and Copper Sample Locations

Sample Number	Sample Point ID	Location

1	SP449260001	2171 Paseo Iglesia
1	SP449260001	2120 Paseo Primero
1	SP449260001	3304 Camino Lisa
1	SP449260001	2116 Paseo Del Monte
1	SP449260001	2113 Paseo Del Monte
		Alternate Sampling Locations
		2175 Paseo Iglesia
		3300 Camino Lisa
		3205 Paseo Del Monte
		2117 Paseo Del Monte
		2088 Paseo Primero

c. ***Sampling Method:*** Lead and copper samples are taken as first draws collected by homeowners in one-liter wide mouth plastic bottles which are then picked up by SFC. Sample collection may span an entire week (or more) to allow homeowners several opportunities to collect a sample. Samples may be stored at 1 - 4ºC in the laboratory Sample refrigerator at the Operation office for up to 5 days and are then transported to the contract analytical lab for analysis.

- Lead and copper samples are analyzed by:

EurofinsAnalysis Laboratory, Inc.
4901 Hawkins NE
Albuquerque, NM 87109
1-505-345-3975

d. ***Compliance:*** SFC, HPE water system is in compliance with the Lead and Copper requirements if the 90th percentile sample results are below the Lead and Copper "Action Levels" (0.015 and 1.3 mg/L, respectively).

F. ASBESTOS SAMPLING –

a. Requirement: Asbestos sampling must be conducted unless a water system has a valid waiver because it has certified that it does not contain asbestos cement piping. To the best knowledge of SFC, the HPE water system does not contain any asbestos cement piping and is therefore a candidate for a waiver of the sampling requirement. In order to obtain a waiver, SFC must submit a certification form attesting that there is no asbestos cement piping in the HPE system before the next sampling period. If a waiver is not granted, SFC will comply with the asbestos sampling requirements. SFC will keep track of the asbestos sampling schedules on the NMED, DWB, Drinking Water Watch Website: https://dww.water.net.env.nm.gov/NMDWW/

G. SOURCE WATER CHEMICAL COMPLIANCE SAMPLING –
(Organics, Inorganics, & Radioactivity)

a. ***Frequency****:* Chemical samples are collected from HPE source on a schedule set by the NMED, DWB. SFC will keep track of the sampling schedules on the NMED, DWB, Drinking Water Watch Website: https://dww.water.net.env.nm.gov/NMDWW/

b. ***Location:*** These Chemical Samples are required to be taken at the Entry Points to the distribution system and are largely the responsibility of the water suppliers (City of Santa Fe).

c. ***Sampling Method:*** The NMED, DWB samplers collect all of these Chemical Samples and submit them to a certified laboratory for analyses; however, SFC understand that it is ultimately responsible for the collection of compliance samples in accordance with the sampling schedule.

d. ***Compliance:*** SFC, HPE water system is in compliance if the chemical samples results are below MCL requirements set forth by the NMED, DWB Regulations. SFC will notify the NMED, DWB of any violations.