



TOWN OF NEW CASTLE

200 South Greeley Avenue, Chappaqua, New York 10514 • Ph. (914) 238-4723 • Fax (914) 238-5177
• e-mail: building@mynewcastle.org

Date: January 16, 2018
To: Zoning Board & Planning Board
From: Richard B. Polcari, Building Inspector
RE: Sunshine Children's Home - 15 Spring Valley Road; Property SBL: #79.16-1-1
Well drilling – Updated Status

As I previously advised both the Planning Board and Zoning Board, the Town first received a complaint regarding tree removal, demolition work and well drilling on the Sunshine Children's Home property on the night of Wednesday, November 29, 2017, during the Zoning Board meeting. Prior to that time, the Building Department had not been notified and had no knowledge of the work that was being performed. Based upon site inspections subsequently performed by Building Department personnel, it appears the work commenced on or about November 23, 2017.

On November 30, 2017, the Town's Assistant Building Inspector, Steve Davis, performed a site visit to investigate the information reported to the Zoning Board of Appeals the previous evening. During his site visit, Mr. Davis found that a small stone structure and water storage tank had been removed, along with one tree of approximately eighteen inches in diameter. Mr. Davis' findings were based upon his personal observations at the site and information provided to him by the property owner. For instance, a freshly-cut tree stump remained on the work site, as did certain debris from the demolition work. Mr. Davis did not personally inspect the water storage tank because it had been removed from the site before his visit. However, statements about the nature of the tank were obtained from the property owner and are corroborated by the proximity of the well head. Additionally, there are no buildings or equipment in this area of the property that would require the bulk storage of petroleum products. There is no road, paved or otherwise, providing vehicular access to the site of the well head.

Mr. Davis followed up with the Westchester County Department of Health (WCDOH) and was informed that the property owner had obtained approvals from the WCDOH to drill three new wells. WCDOH also informed Mr. Davis that Sunshine did not need a permit from WCDOH in order to perform well deepening work on its existing well.

On December 6, 2017, I attended a meeting with the Town Engineer, Robert Cioli, P.E., the Town's consulting Hydrogeologist, William Canavan, and the Director of Facilities for Sunshine Children's Home, Doug Failla. At this time, no work was occurring on the property. By this time, we had confirmed that two test wells (Wells A and B) were drilled on the Sunshine

property pursuant to a permit issued on September 5, 2017, by the WCDOH. The drilling of these test wells did not require a permit from the Town. According to the property owner, the reason for drilling these test wells was to determine if an additional water source could be located to blend with Well No. 3, which has an elevated concentration of radium and cannot be used without blending or other treatment to dilute the radium.

Mr. Canavan (the Town's consultant) has confirmed that the test wells did not locate a water supply that can be used for blending, and that Wells A and B will not be used for any purpose. As set forth in Mr. Canavan's Memorandum dated January 12, 2018, a copy of which is attached, Wells A and B should be abandoned in accordance with NYSDEC Well Abandonment Procedures. In addition, Mr. Canavan confirmed that because these test wells were never placed in service, they will not impact any off-site wells.

The Town has been advised by the property owner's water consultant that Well No. 1 was drilled deeper (approximately 200 feet at the time work was stopped) in an effort to locate additional water to blend with Well No. 3. In addition, the property owner's water consultant stated that the above-ground well head and piping for Well No. 1 was corroded and needed to be replaced. Sunshine intends to install a new, below ground pitless well adapter. I also was provided with emails confirming that the WCDOH is aware of the work on Well No. 1, although a permit was not required from WCDOH for this work.¹

Based on this investigation, the Town determined that certain work in the area of Well No. 1 required Town permits. Specifically, in order to perform the work on Well No. 1, Sunshine needed to remove a stone structure housing Well No. 1 and a large tree from on top of the water storage tank. Both of those activities required Town permits. It was also determined that the removal of the stone structure necessitates the installation of a retaining wall in order to stabilize the slope located behind the stone structure. The Town Engineer, Robert Cioli, P.E., has determined that the areas of disturbance to the existing steep slopes does not exceed the minimum area thresholds as per Chapter 108 (Steep Slope Protection). Therefore, a Steep Slope Permit would not be required in this particular case. Sunshine voluntarily agreed to stop work and cooperate with the Town until it obtained all required permits. As a result, I determined it was not necessary to issue Notices of Violation and Orders to Remedy. Sunshine subsequently submitted the following applications:

- An application for the removal of one eighteen inch (18") DBH tree along with a tree replacement plan showing the planting of four (4) two and one half inch (2.5") replacement trees;
- A demolition permit for the removal of a shed housing Well No. 1 in order to make certain improvements to that well; and
- A building permit to install a retaining wall to prevent possible erosion of the slope adjacent to the shed that was removed.

Submission of all materials in support of these permit applications and review of these materials was anticipated to take several weeks. Sunshine agreed not to perform any further work, other than installation of erosion controls subject to inspection by the Town staff, pending the

¹ This information was later confirmed by Sunshine's consultant, Leggette, Brashears & Graham, Inc. ("LBG") in a letter originally dated December 5, 2017 and later revised on December 19, 2017, a copy of which is attached.

issuance of the required permits. In addition, Sunshine adjourned its appearances before the Zoning Board, Planning Board and ARB scheduled for December 2017.

The Town's Environmental Coordinator, Stephen Coleman, advises that no wetlands were disturbed by the well work that Sunshine performed. There are wetlands located elsewhere on the property that were previously identified and confirmed by approving authorities (ZBA and Planning Board) under the criteria outlined in Chapter 137. However, those wetlands were not disturbed by any of the recent well work. The alleged existence of other wetlands on the property, based upon historical information including a 1994 survey, has been thoroughly studied and found to be unsubstantiated by current conditions.

On December 19, 2017, Sunshine's consultant, Leggette, Brashears & Graham, Inc. ("LBG") submitted a revised letter to the Town setting forth the basis for its position that the deepening of Well No. 1 will not impact the existing amount of water being drawn from the site wells. A copy of this letter is attached. The December 19, 2017 submission was reviewed by Mr. Canavan, the Town Engineer, Robert Cioli and myself. LBG's letter states that "the applicant [Sunshine] has authorized us to convey to the Town its agreement to limit the aggregate, total taking (pumping) of the existing Wells Nos. 1, 2 and 3 (all of which are currently flow-metered) to the historical aggregate, total taking of the wells." In addition, LBG stated:

Deepening a well alone, without pumping of any additional water yielded by the activity, will not have any effect whatsoever on any other wells. Given the applicant's voluntary agreement to limit taking from Well 1 to 10 gallons per minute, the historical taking from that well, the deepening will not have any environmental impact on neighboring wells.

Following a thorough analysis of the LBG revised letter, further review of the application materials and based on the Town's independent investigation, on January 9, 2018, the Building Department issued the three permits to Sunshine required to conduct the work on Well No. 1. A copy of each of these permits is attached.

Now that the permits have been issued the Town Building Department will ensure that all permit conditions are satisfied and that the area is properly regraded and stabilized, which will include removal of any material that may harm any existing trees, prior to closing any issued permits.

By memorandum dated January 16, 2018, Mr. Canavan advised that he concurred with LBG's determination that the deepening work performed on Well No. 1 will not have any adverse impact on off-site wells as long as the Well No. 1 pumping rate is limited to its historical limit of 10 gpm. Mr. Canavan recommends that the flows from Wells Nos. 1, 2 and 3 be limited to the historical levels through the use of flow restrictors and that Well No. 1, once it is placed back in service, be restricted to 10 gpm. These flow levels will be checked by the Town on a monthly basis independently in the field by reviewing flow meter totalizer readings and tracking them on a log. Mr. Canavan's memorandum explains as follows:

There is no factual or engineering basis for concluding that the deepening of Well 1 to augment capacity will have any adverse effect on surrounding existing wells or the bedrock aquifer. The modification of Well 1 and/or the other existing on-site supply wells could only have a possible impact on off-site existing wells if

the pumping rate on-site in any of the wells increased. Even if hydraulically connected fractures (secondary permeability features) supplying Well 1 became intersected with those supplying off-site wells due to the deepening of Well 1, there would need be an induced change in hydraulic head (i.e., drop in water level), coupled with an increase in actual draw from Well 1, before off-site wells could be impacted. However, the Applicant has agreed to limit pumping at Well 1 to 10 gpm, which is its historic pumping rate. This limitation will remain in place until completion of the off-site well monitoring program as required in Section 11 of the Zoning Board of Appeals Resolution dated September 28, 2016 approving the Amended Special Use Permit. As agreed by the Applicant, flow restrictors will be installed on the three supply wells to limit the pumping to the current rates at Wells 2 and 3 and the historical rate at Well 1.

Mr. Canavan further directed as follows to ensure that the site work will have no impact on the required six month well monitoring set forth in the Section 11 of the Zoning Board of Appeals Resolution dated September 28, 2016 approving the Amended Special Use Permit:

[t]he average aggregate demand for the facility of 5,000 gallons per day (gpd) will be confirmed with review of monthly operation reports. Review of monthly operation reports will confirm long-term use for the existing conditions and proposed facility expansion. HES recommends that during the initial six month off-site well monitoring program that the water use be periodically checked independently in the field by reviewing flow meter totalizer readings and tracking them on a log.

The Building Department will ensure that these measures remain in place during the entire six month monitoring program.

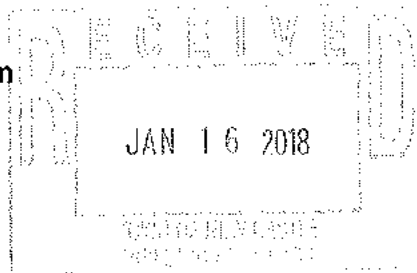
In summary, the following are the actions that must be agreed to and implemented by the Applicant:

1. That the Applicant confirm the current facility water use requirement;
2. The Applicant must install flow restrictors at the well heads for Wells 1, 2 and 3 based on historic pumping at the facility
3. If Well 1 is placed back on-line at 10 gpm, the Applicant must submit water use data on a monthly basis to the New Castle Building Department;
4. The Applicant shall submit monthly operation reports to the New Castle Building Department for all groundwater wells on-site;
5. That the Applicant authorize the Town to undertake independent field review of the flow meter totalizer readings and logs during the initial six months that the off-site well monitoring program is activated. Such authorization shall include submission of information from the independent field review to the New Castle Building Department;

All correspondence regarding this matter shall be submitted to the attention of Richard Polcari, Building Inspector of the Town of New Castle Building Department.

cc: Town Administrator
Sabrina Charney Hull, Director of Planning
Robert Cioli, P.E.
Stephen Coleman, Environmental Coordinator
Eric L. Gordon, Esq.
Jennifer L. Gray, Esq.
Sunshine Children's Home

Memorandum



To: Ms. Sabrina D. Charney-Hull, AICP
Director of Planning
Town of New Castle
200 South Greeley Avenue
Chappaqua, New York 10514

From: William A. Canavan, PG, LSRP
HydroEnvironmental Solutions, Inc.
One Deans Bridge Road
Somers, New York 10589

Date: January 16, 2018

Re: Sunshine Children's Home
Well 1 Rehabilitation
5 Spring Valley Road
New Castle, New York

As requested, HydroEnvironmental Solutions, Inc. (HES) has reviewed the December 19, 2017 letter submitted by the Applicant's hydrogeological and engineering consultant, Leggette, Brashears & Graham, Inc. (LBG) related to recent work performed at the Well 1 well head. HES has also conducted its own site review. In this regard, we offer the following:

- HES agrees with LBG that the work performed at Well 1 was related to improving the existing water supply system, and was not needed to make additional water available for the proposed expanded facility. The Well 1 deepening was undertaken for the purpose of increasing Well 1 capacity and, subsequently, using the increased capacity to dilute Radium concentrations in Well 3, the largest capacity well (50 gallons per minute [gpm]), rather than making more overall water available. Without removal of the tree, well house structure and old pressure tank, the drill rig could not access the well head to start the well deepening process.
- To our knowledge, Well 1 has not been put back into service and no water has been drawn from Well 1 since the work occurred.
- The Well 1 work outlined above did not require a permit from the Westchester County Department of Health (WCDOH) as Sunshine Children's Home is already an existing permitted water supply.



HydroEnvironmental
SOLUTIONS, INC.
One Deans Bridge Road Somers, New York 10589

- According to the Town of New Castle Building Inspector, the required permits for tree removal, well house demolition and constructing a retaining wall around the Well 1 wellhead were required and as such were applied for by the Applicant. The Town issued the permits on January 9, 2018.
- There is no factual or hydrogeologic basis for concluding that the deepening of Well 1 to augment capacity will have any adverse effect on surrounding existing wells or the bedrock aquifer. The modification of Well 1 and/or the other existing on-site supply wells could only have a possible impact on off-site existing wells if the pumping rate on-site in any of the wells increased. Even if hydraulically connected fractures (secondary permeability features) supplying Well 1 became intersected with those supplying off-site wells due to the deepening of Well 1, there would need to be an induced change in hydraulic head (i.e., drop in water level), coupled with an increase in actual draw from Well 1, before off-site wells could be impacted. However, the Applicant has agreed to limit pumping at Well 1 to 10 gpm, which is its historic pumping rate. This limitation will remain in place until completion of the off-site well monitoring program as required in Section 11 of the Zoning Board of Appeals Resolution dated September 28, 2016. As agreed by the Applicant, flow restrictors will be installed on the three supply wells to limit the pumping to the current rates at Wells 2 and 3 and the historical rate at Well 1.
- When Well 1 is placed back on-line at 10 gpm, monthly review of water use data should be conducted on behalf of the Town to ensure that on-site water use does not exceed the 5,000 gpd that was approved in the September 28, 2016 resolution.
- Presently, Well 2 is being pumped at its design rate of 7.5 gpm to provide water to the facility. Well 2 is not capable of producing more water than its rated capacity for longer periods of time due to drawdown effects in the well. Past 72-hour pumping tests confirmed the capacity of this well. Therefore, pumping the well at its design rate should not induce any additional off-site drawdown effects on surrounding wells and bedrock aquifer. The required long-term off-site monitoring program will confirm this.
- HES is in agreement with LBG that initiating solicitation for willing property owners to participate in the off-site well monitoring plan required pursuant to Section 11 of the September 28, 2016 ZBA Resolution should occur at this time, with Well 1 limited to 10 gpm. The off-site well monitoring plan will establish background water levels over time for the bedrock aquifer.



- If dilution via pumping Wells 1 and 2 proves inadequate at reducing Radium concentrations in Well 3, then the Applicant may need to implement an engineered treatment system, subject to approval by the WCDOH. The Applicant should provide Radium sampling results for review as part of the water use review process until it is determined by the WCDOH that the water system is compliant. As noted above, monthly review of pumping data must be submitted to the Town for their consultant to review and verify.
- If the recently drilled test wells A and B are not going to be placed in service due to pumping test and water quality results as confirmed by LBG, then they should be abandoned in accordance with NYSDEC Well Abandonment Procedures. Per my investigation, these test wells were never placed in service and, therefore, will not impact any off-site wells.
- The average aggregate demand for the facility of 5,000 gallons per day (gpd) will be confirmed with review of bi-monthly operation reports. Review of bi-monthly operation reports will confirm long-term use for the existing conditions and proposed facility expansion. HES recommends that during the initial six month off-site well monitoring program that the water use be periodically checked independently in the field by reviewing flow meter totalizer readings and tracking them on a log. This information should also be submitted to the Town of New Castle.
- Past correspondence has indicated that the current demand of the facility without irrigation is 5,000 gpd. Recent correspondence from the Applicant has indicated that the demand is 5,500 gpd. The current facility water use requirement needs to be confirmed and stated, and then maintained moving forward.
- Based on the foregoing findings, it is my opinion that the deepening of Well 1 does not negate or undermine any of the Zoning Board of Appeals' determinations with respect to groundwater and will not have any adverse impact on off-site wells so long as the Well 1 pumping rate is limited to 10 gpm.

HES would be pleased to meet with the Town and/or the Applicant to discuss this project in further detail should the need arise. Please contact us at (914) 276-2560 with any questions or should you require any additional information pertaining to this matter.



LEGGETTE, BRASHEARS & GRAHAM, INC.

**PROFESSIONAL GROUNDWATER AND
ENVIRONMENTAL ENGINEERING SERVICES**

4 RESEARCH DRIVE, SUITE 204
SHELTON, CT 06484
(203) 929-8555
FAX (203) 926-9140
www.lbgweb.com

JAN 16 2018

December 5, 2017
(Revised: December 19, 2017)

Ms. Sabrina D. Charney Hull, AICP
Director of Planning
Town of New Castle
200 South Greeley Avenue
Chappaqua, NY 10514

RE: Sunshine Children's Home
ZBA Special Permit Amendment Application
15 Spring Valley Road
New Castle, New York

Dear Ms. Charney Hull:

Leggette, Brashears & Graham, Inc. ("LBG") is providing this revised letter following a meeting with the Town of New Castle (Town) on December 12, 2017, to describe the rehabilitation of Well 1 and present a summary of other potential improvements to the current water-supply system at the Sunshine Children's Home ("Sunshine") located at 15 Spring Valley Road in New Castle New York. In addition to rehabilitation/deepening of Well 1 to potentially provide a source for dilution of Well 3, the improvements include installing a pitless unit on Well 1, relocating cartridge filters that were in the Well 1 pump house, and preparing plans and specifications for a new water treatment building for the existing facility. The work associated with the rehabilitation/deepening of Well 1 included the demolition of the Well 1 pump house, the removal of an abandoned hydropneumatic (pressure) storage tank and the removal of a tree that was located above the hydropneumatic storage tank.

Prior to any work on Well 1, Mr. Zaw Thein of the Westchester County Department of Health ("WCDOH") was contacted to discuss whether a permit was required for the rehabilitation/deepening of Well 1. Mr. Thein informed us that because Well 1 is an existing well, a permit was not needed and we were authorized to proceed with the planned rehabilitation/deepening upon notification to WCDOH. We sent a confirmatory e-mail to Mr. Thein on November 30, 2017, and Mr. Thein subsequently confirmed this by e-mail to us on December 5, 2017, a copy of which is included with this letter as Attachment I.

Well 1 is being rehabilitated to address the existing, previously disclosed and thoroughly discussed violation for Radium exceedance in Well 3 issued by WCDOH in January, 2016 (the "NOV"), by potentially increasing the yield to allow for dilution of Radium in Well 3. In response to the NOV, Sunshine voluntarily elected to deactivate Well 3, but now desires to reactivate Well 3, preferably by implementing permitted dilution to address Radium. The objective of the rehabilitation of Well 1 is therefore to improve water quality and provide safe drinking water to the existing facility, and not to increase water quantity to serve either the existing, or expanded, facility.

In conjunction with the Well 1 work, the roof, the front wall, and the side wall of the Well 1 pump house were demolished to allow access to the wellhead. The contractor was also supposed to cut the head of the abandoned hydro-pneumatic storage tank, but instead removed the tank. The tree that had grown directly above, and was rooted around, the tank, was removed to permit removal of the tank. Unfortunately, this work did not create sufficient space to allow the placement of the air rotary drill rig over the wellhead. To provide adequate space for the drill, the two remaining walls were subsequently demolished.

Other proposed activities to improve the water-supply system to serve the existing facility include installing a pitless unit on Well 1, relocating existing cartridge filters for Well 1 to the Well 2 pump house and development of plans and specifications for a new water treatment building for the existing facility. Installing the pitless unit will allow for the subsurface installation of the plumbing for Well 1, to replace the existing deteriorated piping within the Well 1 pump house. The cartridge filters that were located within the Well 1 pump house will be eliminated in favor of replacement cartridge filters that will be used to filter groundwater from Well 1 and Well 2 and will be located within the existing Well 2 pump house. This will consolidate the treatment equipment. Lastly, LBG has been authorized to prepare plans and specifications for the construction of a new building for the water-supply and treatment system.

The reported yields of Well 1 and Well 3 are 14 gpm and 50 gpm, respectively. Increasing the yield of Well 1 will facilitate the dilution of water from Well 3. Taking into account the difference in the reported yields of Well 1 and Well 3, maximizing the output from Well 1 offers a better opportunity to dilute Well 3. While the previously discussed Radium treatment system is a viable alternative to dilution, the capital and operational cost make dilution a better long-term solution.

Prior to the rehabilitation/deepening of Well 1, two test wells (Test Well A and Test Well B) were drilled on the property with WCDOH approval to determine if either of the test wells could be used as a source for dilution water for Well 3. A 72-hour pumping test was conducted on both test wells to establish a stabilized pumping rate from each test well and a water-quality sample was collected from each test well to determine the Radium 226 and Radium 288 concentration in the groundwater from each. Based on the results of the 72-hour pumping test and the water quality analysis, it was determined that neither test well can serve as a source of dilution of Well 3. The test wells are unequipped and will not be placed into service.

In summary, the rehabilitation/deepening of Well 1 and the drilling of the test wells is intended to improve the current water-supply system and, more specifically, to address the NOV and Radium in Well 3 through dilution to provide safe drinking water for the existing facility. Well 1 continues to be evaluated as a potential source of dilution water for Well 3. Going forward, all activities associated with improving the existing water-supply system will be coordinated with the Town prior to being initiated.

After discussion with the Town and to address public concerns, the applicant has authorized us to convey to the Town its agreement to limit the aggregate, total taking (pumping) of the existing Wells 1, 2 and 3 (all of which are currently flow-metered) to the historical aggregate, total taking of the wells. The monthly operation reports for 2013 to date have been reviewed to ascertain the present water demand of the existing facility, which has been determined to be an average of approximately 5,100 gallons per day for the period from January 2013 to present and approximately 4,900 gallons per day for January 2017 to November 2017. These values do not include any irrigation use and are based on operational flow meter data, and are consistent with the prior water demand estimates provided to the Town (Attachment II). Based on the measured average demand, the applicant will limit the aggregate, total taking to 5,500 gallons per day unless and until permitted to withdraw more pursuant to Town approvals. Of this total, not more than 10 gallons per minute will be taken from Well 1, which is the historical yield of that well. Monthly operation reports will be submitted to the Town on a quarterly basis until the Town decides it no longer requires them.

In addition, in response to concerns of neighboring homeowners, LBG will initiate the offsite well monitoring program required by the ZBA approvals. LBG will solicit homeowners up to 1,500 feet from Wells 1, 2 and 3 to survey and collect information on their wells. The data will be used after all necessary Town approvals have been granted to implement the offsite well monitoring program described in the LBG letter to the Town dated June 15, 2016.

Finally, we feel it is important to address the misleading assertion made by Sive, Paget & Riesel in their December 11, 2017, letter to the Town, that deepening of Well 1 "could worsen the environmental impacts of the project on neighboring wells..." This statement has absolutely no hydrogeological basis. Deepening a well alone, without pumping of any additional water yielded by the activity, will not have any effect whatsoever on any other wells. Given the applicant's voluntary agreement to limit taking from Well 1 to 10 gallons per minute, the historical taking from that well, the deepening will not have any environmental impact on neighboring wells.

Ms. Sabrina D. Charney Hull

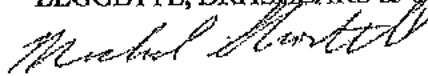
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December 5, 2017
(Revised: December 19, 2017)

Should you have any questions, please do not hesitate to contact Michael directly at
(475) 882-1720.

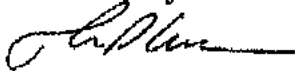
Very truly yours,

LEGGETTE, BRASHEARS & GRAHAM, INC.



Michael Shortell
Associate

Reviewed by:



Thomas P. Cusack, CPG
Senior Vice President

MS:cmn

Enclosures

cc: Ari Friedman
Mark Weingarten
Zaw Thein
William Canavan
Peter J. Wise

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TABLE

**SUNSHINE CHILDREN'S HOME
15 SPRING VALLEY ROAD
OSSINING NEW YORK**

Summary of Average Usage Data

SUMMARY OF WATER USAGE		
Month / Year	Monthly Usage (gal/month)	Average Daily Usage for Property (GPD)
Jan-13	182,500	5,887
Feb-13	182,700	6,525
Mar-13	239,600	7,729
Nov-13	148,100	4,937
Dec-13	160,300	5,171
Jan-14	161,400	5,206
Feb-14	132,500	4,732
Mar-14	139,400	4,497
Nov-14	160,200	5,340
Dec-14	156,600	5,052
Jan-15	165,100	5,326
Feb-15	144,400	5,157
Mar-15	147,200	4,748
Nov-15	163,200	5,440
Dec-15	146,700	4,732
Jan-16	149,700	4,829
Feb-16	153,300	5,286
Mar-16	182,500	5,887
Apr-16	141,900	4,730
May-16	152,500	4,919
Jun-16	146,200	4,873
Jul-16	149,600	4,826
Aug-16	144,700	4,668
Sep-16	140,900	4,697
Oct-16	155,000	5,000
Nov-16	148,900	4,963
Dec-16	135,800	4,381
Jan-17	134,908	4,352
Feb-17	126,539	4,519
Mar-17	135,865	4,383
Apr-17	146,270	5,224
May-17	184,829	5,962
Jun-17	205,181	6,839
Jul-17	115,995	4,640
Aug-17	148,915	4,964
Sep-17	126,421	4,515
Oct-17	NA	4,207
Nov-17	134,275	4,331
Average	154,328	5,112

NA: Not Available
GPD: gallons per day

ATTACHMENT I

From: Thein, Zaw [<mailto:ztt1@westchestergov.com>]
Sent: Tuesday, December 05, 2017 12:21 PM
To: M. SHORTELL
Cc: 'ari@emlny.com'; T. CUSACK; Taylor, Delroy
Subject: RE: Sunshine Children's Home

Mike:

The receipt of your notification of the proposed rehabilitation of the existing well#1 at the above referenced water system is hereby acknowledged. This Department has no objection to your proposal indicated in your email below. The permit application is not required for this work.

Should you have any question or require additional information, please feel free to contact me.

Sincerely,

Zaw T. Thein
Assistant Engineer
Bureau of Environmental Quality
Westchester County Department of Health
25 Moore Avenue Mt. Kisco NY 10549
Tel: 914-864-7348
Fax: 914-813-4691
ztt1@westchestergov.com

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From: M. SHORTELL [<mailto:mshortell@bgct.com>]
Sent: Monday, November 20, 2017 3:44 PM
To: Thein, Zaw
Cc: 'ari@emlny.com'; T. CUSACK
Subject: FW: Sunshine Children's Home

Hello Zaw

Based on your conversation with Sunshine, we will be initiating a rehabilitation/deepening of Well 1 beginning on November 27, 2017. Upon completion of the rehab/deepening, we will collect a water sample for a full NYS Part 5 water quality analysis. Well 1 will remain offline until the results of the laboratory analysis can be submitted to the Westchester County Department of Health (WCDOH) and authorization to reactivate Well 1 is obtained from the WCDOH. The facility will continue using Well 2 with Well 3 as backup until Well 1 is approved for use by WCDOH

Please feel free to call with any questions.

Michael Shortell
Associate

LEGGETTE, BRASHEARS & GRAHAM
Member of WSP

Phone: +1 203 929 8555
Direct : +1 475 882-1720
Email: MICHAEL.SHORTELL@LBGCT.COM

4 Research Drive, Suite 201
Shelton, CT 06488

lbqweb.com

Leggette, Brashears & Graham is now a member of WSP.

ATTACHMENT II

Public Water System Name		Reporting Month/Year	Date Report Submitted		Source Water Type(s)				
Sunshine Children's Home		January-2016	February-03-2016		<input type="checkbox"/> Surface <input type="checkbox"/> Ground <input checked="" type="checkbox"/> Ground				
Public Water System ID		County	Town, Village, or City		<input type="checkbox"/> Purchase with subsequent chlorination <input type="checkbox"/> Purchase w/out subsequent chlorination				
5910425		Westchester	Ossining						
DATE	Source(s) In Use	Treated water volume (1,000 gallons/day)	Chlorination		Free chlorine residual at entry point (mg/l)	Other Treatments / Readings			
			Gaseous Cylinder weight (lbs.)	Liquid Chlorine used per day (lbs.)		Hypochlorite added to crotch (gallons or quarts)	UV Unit Active (Yes/No)	Intensity Meter >90%	Quartz Sleeve Cleaned (Yes/No)
1	Well(s) 1, 2, & 3	3,000			1.2	N/A	N/A	N/A	
2	Well(s) 1, 2, & 3	4,000			1.3				
3	Well(s) 1, 2, & 3	4,000			1.2				
4	Well(s) 1, 2, & 3	6,000			1.1				
5	Well(s) 1, 2, & 3	6,000			1.0				
6	Well(s) 1, 2, & 3	3,180			1.0				
7	Well(s) 1, 2, & 3	4,900			1.8				
8	Well(s) 1, 2, & 3	4,700			1.75				
9	Well(s) 1, 2, & 3	4,900			1.7				
10	Well(s) 1, 2, & 3	4,600			1.5				
11	Well(s) 1, 2, & 3	4,500			1.8				
12	Well(s) 1, 2, & 3	4,800			1.2				
13	Well(s) 1, 2, & 3	5,100			1.1				
14	Well(s) 1, 2, & 3	4,300			1.0				
15	Well(s) 1, 2, & 3	3,700			1.25				
16	Well(s) 1, 2, & 3	5,000			1.8				
17	Well(s) 1, 2, & 3	5,600			1.4				
18	Well(s) 1, 2, & 3	2,900			1.1				
19	Well(s) 1, 2, & 3	5,300			1.5				
20	Well(s) 1, 2, & 3	5,200			1.8				
21	Well(s) 1, 2, & 3	3,700			1.3				
22	Well(s) 1, 2, & 3	8,100			1.50				
23	Well(s) 1, 2, & 3	4,500			1.3				
24	Well(s) 1, 2, & 3	6,600			1.8				
25	Well(s) 1, 2, & 3	4,300			0.50				
26	Well(s) 1, 2, & 3	5,700			1.75				
27	Well(s) 1, 2, & 3	3,400			1.1				
28	Well(s) 1, 2, & 3	4,800			1.2				
29	Well(s) 1, 2, & 3	4,100			0.60				
30	Well(s) 1, 2, & 3	4,900			1.6				
31	Well(s) 1, 2, & 3	8,000			1.8				
Total		142,700			9.25				
AVG.		4,829.03			1.16				

Chlorine & lbs. Ratio = 0.00 pounds/gallons of 12.6 % chlorine added to 45 gallons of water in crotch

Reported by: Matt Kropp Title: Operator NYS DOH Operator Certification Number: NY0034819

Signature: [Signature] Date: February-03-2016 Operator Credit Level: HA,C,D

Water Systems Operation Report
 Microbiological Sample Results

Public Water System Name		Monthly Mean Year	Date Report Submitted	Source Water Type(s)				
Sunshine Childrens's Home		February-2016	3/7/2016	<input type="checkbox"/> Surface	<input type="checkbox"/> Ground			
Public Water System ID		County	Town/Village/City	<input type="checkbox"/> Purchase with subsequence distribution				
NY 5910495		Westchester	Ossining	<input type="checkbox"/> Purchase with subsequence distribution				
DATE	Source(s) In Use	Treated water volume (1,000 gallons/day)	Chlorination			Other Treatments / Readings		
			Gasous Cylinder weight (lbs.)	Liquid Chlorine used per day (lbs.)	Free chlorine residual at entry point (ppm)	pH at entry point	Temperature at entry point	
1	Well(s) 1, 2, & 3	6,800			1.4	7.0	12	
2	Well(s) 1, 2, & 3	6,300			1.3	7.1	11	
3	Well(s) 1, 2, & 3	3,600			1.5	7.1	11	
4	Well(s) 1, 2, & 3	4,900		3.25	1.3	6.8	12	
5	Well(s) 1, 2, & 3	4,700			1.9	7.0	11	
6	Well(s) 1, 2, & 3	4,200			1.6	6.9	11	
7	Well(s) 1, 2, & 3	4,900			1.3	7.0	12	
8	Well(s) 1, 2, & 3	4,000			1.4	6.9	11	
9	Well(s) 1, 2, & 3	4,900		2.50	1.3	7.0	11	
10	Well(s) 1, 2, & 3	4,900			1.7	7.0	11	
11	Well(s) 1, 2, & 3	4,900			1.7	7.0	10	
12	Well(s) 1, 2, & 3	3,700			1.2	7.0	11	
13	Well(s) 1, 2, & 3	7,700			1.5	6.9	11	
14	Well(s) 1, 2, & 3	7,600			1.4	7.1	10	
15	Well(s) 1, 2, & 3	3,000			1.2	7.1	10	
16	Well(s) 1, 2, & 3	5,900		1.25	1.2	6.9	11	
17	Well(s) 1, 2, & 3	5,200			1.2	7.3	11	
18	Well(s) 1, 2, & 3	4,200			1.9	7.0	11	
19	Well(s) 1, 2, & 3	7,800		1.50	1.5	7.0	10	
20	Well(s) 1, 2, & 3	4,700			1.9	7.1	11	
21	Well(s) 1, 2, & 3	4,800			1.5	7.1	11	
22	Well(s) 1, 2, & 3	5,200			1.2	6.5	11	
23	Well(s) 1, 2, & 3	4,000			1.2	6.6	11	
24	Well(s) 1, 2, & 3	6,300			1.1	6.6	11	
25	Well(s) 1, 2, & 3	5,800			1.4	6.5	12	
26	Well(s) 1, 2, & 3	5,400		1.50	1.1	6.6	11	
27	Well(s) 1, 2, & 3	5,600			1.5	6.7	11	
28	Well(s) 1, 2, & 3	3,600			1.5	6.6	11	
29	Well(s) 1, 2, & 3	7,500			1.9	6.7	11	
Total		153,300		0	16.00			0
AVG.		5,286.21			2.00	1.4	6.9	11

Chlorine Mix Ratio = 8.00 quarts/gallons of 12.5 % chlorine added to 45 gallons of water in crack

Reported by: Matt Krug Title: Area Manager NY's DOH Operator Certification Number: NY0084819

Signature: [Signature] Date: 3/7/2016 Operator Grade Level: IIA, C.D.

Water Systems Operation Report
Microbiological Sample Results

Public Water System Name Sunshine Children's Home	Reading Month/Year March-2016	Date Report Submitted 4/5/2016	Source Water Type(s) <input type="checkbox"/> Surface <input type="checkbox"/> Ground <input type="checkbox"/> Other
Public Water System ID NY 5910495	County Westchester	Town/Village or City Ossining	<input type="checkbox"/> Purchase with subsequent chlorination <input type="checkbox"/> Purchase w/own subsequent chlorination

DATE	Source(s) in Use	Treated water volume (1,000 gallons/day)	Chlorination				Other Treatments / Readings		
			Gaseous		Liquid	Free chlorine residual at entry point (mg/L)	pH at entry point	Temperature at entry point	
			Cylinder weight (lbs.)	Chlorine used (per day) (lbs.)					
1	Well(s) 1, 2, & 3	5,400				1.7	6.5	11	
2	Well(s) 1, 2, & 3	6,300				1.3	6.6	13	
3	Well(s) 1, 2, & 3	5,500			4.25	1.8	6.6	11	
4	Well(s) 1, 2, & 3	8,300				1.9	6.7	11	
5	Well(s) 1, 2, & 3	9,600				1.7	6.6	11	
6	Well(s) 1, 2, & 3	2,800				1.2	6.7	11	
7	Well(s) 1, 2, & 3	2,500				1.2	6.8	13	
8	Well(s) 1, 2, & 3	3,600			3.75	1.8	6.6	12	
9	Well(s) 1, 2, & 3	2,000				1.5	6.6	12	
10	Well(s) 1, 2, & 3	2,800				1.5	6.7	14	
11	Well(s) 1, 2, & 3	2,900			3.50	1.8	6.9	13	
12	Well(s) 1, 2, & 3	8,800				1.8	7.0	12	
13	Well(s) 1, 2, & 3	11,800				1.3	6.9	13	
14	Well(s) 1, 2, & 3	5,000				1.0	6.7	14	
15	Well(s) 1, 2, & 3	4,900				1.1	6.7	14	
16	Well(s) 1, 2, & 3	5,100				0.9	6.9	13	
17	Well(s) 1, 2, & 3	4,900				1.1	6.6	13	
18	Well(s) 1, 2, & 3	4,800			3.00	1.1	6.6	12	
19	Well(s) 1, 2, & 3	3,900				1.2	6.8	12	
20	Well(s) 1, 2, & 3	5,400				1.7	6.8	12	
21	Well(s) 1, 2, & 3	5,200				1.5	6.7	13	
22	Well(s) 1, 2, & 3	3,900				1.7	6.7	12	
23	Well(s) 1, 2, & 3	4,400				1.6	6.6	12	
24	Well(s) 1, 2, & 3	4,900				1.5	6.7	12	
25	Well(s) 1, 2, & 3	4,300			3.00	1.7	6.6	12	
26	Well(s) 1, 2, & 3	4,700				1.4	6.8	13	
27	Well(s) 1, 2, & 3	3,600				1.2	6.7	13	
28	Well(s) 1, 2, & 3	4,500				1.8	6.6	13	
29	Well(s) 1, 2, & 3	4,500				1.5	6.7	13	
30	Well(s) 1, 2, & 3	4,200				1.2	6.6	13	
31	Well(s) 1, 2, & 3	2,300				0.9	6.8	13	
Total		184,680			17.50				
AVG.		5,957.44			3.58	1.4	6.7	12.5	

Chlorine MIN Ratio = 8.00 quarts/gallons of 12.5 % chlorine added to 46 gallons of water in creek

Reported by: [Signature] Title: Area Manager NYS DCH Operator Certification Number: NY0034619

Signature: [Signature] Date: 4/5/2016 Operator Grade Level: HA, C, D

Water Systems Operation Report
Microbiological Sample Results

Public Water System Name Sunshine Children's Home	Reporting Month/Year April-2016	Date Report Submitted 5/3/2016	Source Water Type(s) <input type="checkbox"/> Surface <input type="checkbox"/> Ground <input type="checkbox"/> Other
Public Water System ID NY 5910495	County Westchester	Town, Village, or City Ossining	<input type="checkbox"/> Include this subsequent information <input type="checkbox"/> Exclude from subsequent distribution

DATE	Source(s) in Use	Treated water volume (1,000 gallons/day)	Chlorine Dose			Free Chlorine (collected at entry point mg/L)	pH at entry point	Temperature at entry point	Other Treatments / Readings
			Cylinder weight (lbs.)	Chlorine used per day (lbs.)	Liquid Hypochlorite added to stock (gallons or quarts)				
1	Well(s) 1, 2, & 3	5,100				1.0	6.7	14	
2	Well(s) 1, 2, & 3	4,300				1.5	6.7	13	
3	Well(s) 1, 2, & 3	5,000				1.2	6.7	13	
4	Well(s) 1, 2, & 3	3,600			3.00	1.8	6.6	12	
5	Well(s) 1, 2, & 3	5,700				1.7	6.6	13	
6	Well(s) 1, 2, & 3	6,500				1.8	6.7	12	
7	Well(s) 1, 2, & 3	3,700				1.0	6.7	12	
8	Well(s) 1, 2, & 3	4,500				1.6	6.6	12	
9	Well(s) 1, 2, & 3	4,400				1.4	6.7	12	
10	Well(s) 1, 2, & 3	4,300				1.4	6.7	12	
11	Well(s) 1, 2, & 3	5,000				1.7	6.6	12	
12	Well(s) 1, 2, & 3	5,300				1.6	6.6	12	
13	Well(s) 1, 2, & 3	3,600			4.00	1.9	6.6	12	
14	Well(s) 1, 2, & 3	4,300				1.5	6.7	12	
15	Well(s) 1, 2, & 3	4,400				1.8	6.6	12	
16	Well(s) 1, 2, & 3	4,300				1.9	6.7	13	
17	Well(s) 1, 2, & 3	5,000				1.8	6.7	13	
18	Well(s) 1, 2, & 3	5,000				1.7	6.6	13	
19	Well(s) 1, 2, & 3	4,000				1.6	6.7	14	
20	Well(s) 1, 2, & 3	4,400				1.7	6.8	13	
21	Well(s) 1, 2, & 3	4,400				1.8	6.6	13	
22	Well(s) 1, 2, & 3	4,800			3.00	1.9	6.6	13	
23	Well(s) 1, 2, & 3	5,500				1.8	6.7	13	
24	Well(s) 1, 2, & 3	3,700				1.7	6.7	13	
25	Well(s) 1, 2, & 3	6,700				1.6	6.6	13	
26	Well(s) 1, 2, & 3	2,800				1.4	6.6	12	
27	Well(s) 1, 2, & 3	3,300				1.3	6.8	13	
28	Well(s) 1, 2, & 3	5,200				1.4	6.8	13	
29	Well(s) 1, 2, & 3	3,800			2.80	1.6	6.8	12	
30	Well(s) 1, 2, & 3	6,300				1.3	6.8	13	
Total		141,900			12.50				
AVG:		4,730			3.13	1.6	6.7	12.3	

Operator's Max Rate = 8.00 quarts/gallons of 12.6 % chlorine added to 45 gallons of water in stock

Reported by: Matt Kropp Title: Area Manager NYS DOH Operator Certificate Number: NY0034619

Signature: [Signature] Date: 5/3/2016 Operator Grade Level: I/A, C, D

Public Water System Name: Sunshine Children's Home Public Water System ID: NY 6918495
 County: Westchester Town, Village or City: Somers Source Water Type(s): Surface Ground Both
 Reporting Month/Year: May-2016 Date Report Submitted: 6/7/2016 Purchase with subsequent chlorination Purchase w/out subsequent chlorination Log treatment required

Date	Source(s) in use	Treated water volume (GALLONS/DAY)	CHLORINATION			Free Chlorine residual at entry point (mg/l)	UV Unit Active (YES/NO)	Intensity meter > 70%	Quartz sleeve cleaned (YES/NO)	Entry Point pH	Entry Point Temp.
			Gaseous Cylinder weight (LBS.)	Chlorine used/Day (LBS.)	Liquid Hypochlorite added to creek (GALLONS/DAY)						
1	Wells 1,2,3	4,700				1.8	No	N/A	N/A	6.8	12
2	Wells 1,2,3	4,800				1.8	No	N/A	N/A	6.9	13
3	Wells 1,2,3	5,000				1.6	No	N/A	N/A	6.7	13
4	Wells 1,2,3	5,600				1.4	No	N/A	N/A	6.8	13
5	Wells 1,2,3	4,100				1.3	No	N/A	N/A	6.9	13
6	Wells 1,2,3	6,900			2.5	1.3	No	N/A	N/A	6.8	13
7	Wells 1,2,3	3,500				1.9	No	N/A	N/A	6.9	13
8	Wells 1,2,3	5,700				1.6	No	N/A	N/A	6.8	13
9	Wells 1,2,3	4,600				1.8	No	N/A	N/A	6.5	13
10	Wells 1,2,3	4,900				1.6	No	N/A	N/A	6.7	13
11	Wells 1,2,3	4,900				1.2	No	N/A	N/A	6.6	13
12	Wells 1,2,3	5,800			0.25	1.1	No	N/A	N/A	6.7	13
13	Wells 1,2,3	4,900				1.8	No	N/A	N/A	6.8	14
14	Wells 1,2,3	4,400				1.4	No	N/A	N/A	6.8	13
15	Wells 1,2,3	6,500				1.6	No	N/A	N/A	6.8	13
16	Wells 1,2,3	3,600			2.5	1.1	No	N/A	N/A	6.5	13
17	Wells 1,2,3	5,400				1.3	No	N/A	N/A	6.5	13
18	Wells 1,2,3	4,600				1.5	No	N/A	N/A	6.6	13
19	Wells 1,2,3	5,600				1.4	No	N/A	N/A	6.6	13
20	Wells 1,2,3	4,200				1.5	No	N/A	N/A	6.6	13
21	Wells 1,2,3	4,600				1.7	No	N/A	N/A	6.5	13
22	Wells 1,2,3	5,300				1.5	No	N/A	N/A	6.6	13
23	Wells 1,2,3	4,400				1.2	No	N/A	N/A	6.5	14
24	Wells 1,2,3	5,400				1.4	No	N/A	N/A	6.5	14
25	Wells 1,2,3	4,300			3.25	1.6	No	N/A	N/A	6.6	14
26	Wells 1,2,3	4,700				1.6	No	N/A	N/A	6.6	14
27	Wells 1,2,3	4,100				1.4	No	N/A	N/A	6.6	14
28	Wells 1,2,3	4,900				1.2	No	N/A	N/A	6.6	14
29	Wells 1,2,3	4,600				1.3	No	N/A	N/A	6.7	14
30	Wells 1,2,3	4,700				1.4	No	N/A	N/A	6.7	14
31	Wells 1,2,3	5,800				1.6	No	N/A	N/A	6.7	14
Total		152,600			8.5						
AVG.		4,919			2.7	1.5				6.7	13.3

Chlorine Mix Ratio = 8.0 Quarts/gallons of 15 % chlorine added to 48.0 gallons of water in creek

Date UV quartz sleeve last cleaned: N/A Date UV lamp replaced: N/A

Alarm activation: Yes No If "Yes," date of activation: N/A Required Treatment Residual Level: 0.2 mg/l

Reported by: Matt Kroog Title: Area Manager NYSDOH Operator Certification Number: NY0034619

Signature: [Signature] Date: 6/7/2016 Operator Grade Level: IIA,C,D

NEW YORK STATE DEPARTMENT OF HEALTH
Bureau of Water Supply Protection

Water System Operation Report
For Systems that Treat with Chlorine and/or Ultraviolet Radiation

Public Water System Name: Sunshine Children's Home Public Water System ID: NY 5910495

County: Westchester Town, Village or City: Somers Source Water Type(s): Surface
 Ground
 Hybrid
 Surface with subsequent chlorination
 Surface with subsequent chlorination
 Re-treatment required

Reporting Month/Year: June-2016 Date Report Submitted: 7/7/2016
MM/YYYY MM/YYYY

Date	Source(s) in use	Treated water volume (gallons/day)	CHLORINATION			Free Chlorine residual at entry point (mg/l)	ULTRAVIOLET RADIATION/OTHER TREATMENTS				
			Cylinder weight (LBS.)	Chlorine used/Day (LBS.)	Hypochlorite added to tank (water or other)		UV Unit Active (YES/NO)	Intensity meter > 70%	Quartz sleeve cleaned (YES/NO)	Entry Point pH	Entry Point Temp.
1	Wells 1,2,3	5100				1.7	No	N/A	N/A	6.8	15
2	Wells 1,2,3	4200				1.3	No	N/A	N/A	6.9	15
3	Wells 1,2,3	5100			4	1.3	No	N/A	N/A	6.9	15
4	Wells 1,2,3	4700				1.5	No	N/A	N/A	7.0	16
5	Wells 1,2,3	5400				1.6	No	N/A	N/A	7.0	15
6	Wells 1,2,3	3900				1.2	No	N/A	N/A	6.8	15
7	Wells 1,2,3	4900				1.1	No	N/A	N/A	6.6	15
8	Wells 1,2,3	4300				1.6	No	N/A	N/A	7.0	15
9	Wells 1,2,3	4800				1.4	No	N/A	N/A	7.0	15
10	Wells 1,2,3	5200				1.7	No	N/A	N/A	7.1	15
11	Wells 1,2,3	4900				1.9	No	N/A	N/A	7.0	15
12	Wells 1,2,3	4300				1.8	No	N/A	N/A	7.0	15
13	Wells 1,2,3	3800			3.75	1.7	No	N/A	N/A	7.1	15
14	Wells 1,2,3	4200				1.2	No	N/A	N/A	7.0	15
15	Wells 1,2,3	7000				1.1	No	N/A	N/A	7.0	15
16	Wells 1,2,3	6300				1.2	No	N/A	N/A	7.0	15
17	Wells 1,2,3	4600				1.2	No	N/A	N/A	6.6	15
18	Wells 1,2,3	4800				1.6	No	N/A	N/A	6.7	15
19	Wells 1,2,3	3900				1.2	No	N/A	N/A	6.7	15
20	Wells 1,2,3	5500				1.2	No	N/A	N/A	7.0	15
21	Wells 1,2,3	5900			2.75	1.3	No	N/A	N/A	6.7	15
22	Wells 1,2,3	4000				1.4	No	N/A	N/A	6.9	15
23	Wells 1,2,3	6100				1.2	No	N/A	N/A	6.8	15
24	Wells 1,2,3	4500			1.25	1.1	No	N/A	N/A	6.8	15
25	Wells 1,2,3	4800				1.1	No	N/A	N/A	6.9	15
26	Wells 1,2,3	5200				1.3	No	N/A	N/A	7.0	16
27	Wells 1,2,3	5700				1.4	No	N/A	N/A	6.8	17
28	Wells 1,2,3	3000				1.5	No	N/A	N/A	6.9	16
29	Wells 1,2,3	5000				1.3	No	N/A	N/A	6.8	17
30	Wells 1,2,3	5100				1.7	No	N/A	N/A	6.8	16
Total		146,200				11.75					
Avg.		4,873				2.9				6.9	15.4

Chlorine Mix Ratio = 8.0 Quarts/gallons of 15 % chlorine added to 48.0 gallons of water in tank

Date UV quartz sleeve last cleaned: N/A Date UV lamp replaced: N/A
MM/DD/YY MM/DD/YY

Alarm activation: On Off If "Yes," date of activation: N/A Required Treatment Residual Level: 0.2 mg/l
MM/DD/YY

Reported by: Matt Krzyg Title: Area Manager NYSDOH Operator Certification Number: NY00346

Signature: [Signature] Date: 7/7/2016 Operator Grade Level: IIA,G,D
MM/YYYY

Public Water System Name: Sunshine Children's Home Public Water System ID: NY 5910495

County: Westchester Town, Village or City: Somers Source Water Type(s): Surface Ground Other

Reporting Month/Year: July 2016 Date Report Submitted: 8/5/2016
MM/YYYY MM/YYYY

- Surface chlorination (Biosolids)
 Surface disinfectant distribution
 UV treatment required

Date	Source(s) in use	Treated water volume (GALLONS/DAY)	CHLORINATION			Free Chlorine residual at entry point (mg/l)	ULTRAVIOLET RADIATION/OTHER TREATMENTS				
			Gaseous		Liquid		UV Unit Active (YES/NO)	Intensity meter > 70%	Quartz sleeve cleaned (YES/NO)	Entry Point pH	Entry Point Temp.
			Cylinder weight (LBS.)	Chlorine used/Day (LBS.)	Hypochlorite added to tank (GALLONS OR QUARTS)						
1	Wells 1,2,3	5600			1.25	1.8	No	N/A	N/A	6.5	16
2	Wells 1,2,3	4000				1.7	No	N/A	N/A	6.8	16
3	Wells 1,2,3	5200				1.8	No	N/A	N/A	6.6	16
4	Wells 1,2,3	3700			1.5	1.4	No	N/A	N/A	6.6	15
5	Wells 1,2,3	5100				1.8	No	N/A	N/A	6.6	16
6	Wells 1,2,3	6200				1.4	No	N/A	N/A	6.5	16
7	Wells 1,2,3	5100				1.6	No	N/A	N/A	6.6	16
8	Wells 1,2,3	3700				1.2	No	N/A	N/A	6.9	16
9	Wells 1,2,3	5000				1.3	No	N/A	N/A	6.7	16
10	Wells 1,2,3	4000				1.3	No	N/A	N/A	6.7	16
11	Wells 1,2,3	6000				1.2	No	N/A	N/A	6.6	16
12	Wells 1,2,3	2700				1.2	No	N/A	N/A	6.5	16
13	Wells 1,2,3	5500				1.1	No	N/A	N/A	6.6	17
14	Wells 1,2,3	4100			6	1.5	No	N/A	N/A	6.7	15
15	Wells 1,2,3	4800				1.2	No	N/A	N/A	6.7	17
16	Wells 1,2,3	3900				1.2	No	N/A	N/A	6.7	17
17	Wells 1,2,3	4700				1.4	No	N/A	N/A	6.7	17
18	Wells 1,2,3	4100				1.7	No	N/A	N/A	6.8	17
19	Wells 1,2,3	6000				1.5	No	N/A	N/A	6.5	17
20	Wells 1,2,3	7300				1.4	No	N/A	N/A	6.6	17
21	Wells 1,2,3	2500				1.6	No	N/A	N/A	6.7	17
22	Wells 1,2,3	4200				1.4	No	N/A	N/A	6.6	16
23	Wells 1,2,3	5000				1.8	No	N/A	N/A	6.8	17
24	Wells 1,2,3	4500				1.7	No	N/A	N/A	6.7	17
25	Wells 1,2,3	5000			2	1.8	No	N/A	N/A	6.8	17
26	Wells 1,2,3	4600				1.8	No	N/A	N/A	6.8	17
27	Wells 1,2,3	4900				1.9	No	N/A	N/A	6.6	18
28	Wells 1,2,3	5800				1.8	No	N/A	N/A	7.0	17
29	Wells 1,2,3	4300				1.5	Yes	>70%	Yes	6.9	17
30	Wells 1,2,3	5900				1.2	Yes	>70%	Yes	6.7	17
31	Wells 1,2,3	6,200				1.3	Yes	>70%	Yes	6.8	17
Total		149,600			10.75						
AVG.		4,826			2.7	1.5				6.7	16.5

Chlorine Mix Ratio = 8.0 Quanta/gallons of 15 % chlorine added to 48.0 gallons of water in tank

Date UV quartz sleeve last cleaned: N/A Date UV lamp replaced: N/A
MM/DD/YY MM/DD/YY

Alarm activation: On Off If "Yes," date of activation: N/A Required Treatment Residual Level: 0.2 mg/l
MM/DD/YY

Reported by: Matt Krone Title: Area Manager NYSDDH Operator Certification Number: NY0039619

Signature: [Signature] Date: 8/5/2016 Operator Grade Level: HA,CD
MM/YYYY

Public Water System Name: Sunshine Children's Home Public Water System ID: NY 5910495

County: Westchester Town, Village or City: Somers Source Water Type(s): Surface Ground Both

Reporting Month/Year: August-2016 Date Report Submitted: 9/7/2016
MM/YYYY MM/YYYY

Disinfection by-product monitoring required
 Disinfection by-product monitoring required
 Disinfection by-product monitoring required

Date	Source(s) in use	Treated water volume (GALLONS/DAY)	CHLORINATION			ULTRAVIOLET RADIATION/OTHER TREATMENTS				
			Cylinder weight (LBS.)	Chlorine used/Day (LBS.)	Hypochlorite added to crock (GALLONS OR EQUIV)	Free Chlorine residual at entry point (mg/l)	UV Unit Active (YES/NO)	Intensity meter mJ/cm ²	Quartz sleeve cleaned (YES/NO)	
1	Wells 1,2,3	4,600				1.1	Yes	47.3	Yes	
2	Wells 1,2,3	4,600				1.1	Yes	47.3	Yes	
3	Wells 1,2,3	4,600				1.5	Yes	47.3	Yes	
4	Wells 1,2,3	5,700				1.0	Yes	47.3	Yes	
5	Wells 1,2,3	3,300				1.9	Yes	47.3	Yes	
6	Wells 1,2,3	5,500				1.7	Yes	47.3	Yes	
7	Wells 1,2,3	4,000				1.0	Yes	47.3	Yes	
8	Wells 1,2,3	4,900				1.2	Yes	47.3	Yes	
9	Wells 1,2,3	4,400				1.0	Yes	47.3	Yes	
10	Wells 1,2,3	5,800				1.0	Yes	47.3	Yes	
11	Wells 1,2,3	4,200				1.2	Yes	47.3	Yes	
12	Wells 1,2,3	4,600				1.2	Yes	47.3	Yes	
13	Wells 1,2,3	4,200				1.2	Yes	47.3	Yes	
14	Wells 1,2,3	4,500				0.9	Yes	47.3	Yes	
15	Wells 1,2,3	4,400				1.1	Yes	47.3	Yes	
16	Wells 1,2,3	6,400				0.8	Yes	47.3	Yes	
17	Wells 1,2,3	4,000				0.7	Yes	47.3	Yes	
18	Wells 1,2,3	4,900				0.6	Yes	47.3	Yes	
19	Wells 1,2,3	4,500				0.8	Yes	47.3	Yes	
20	Wells 1,2,3	4,700				0.7	Yes	47.3	Yes	
21	Wells 1,2,3	5,200				1.5	Yes	47.3	Yes	
22	Wells 1,2,3	3,600				1.2	Yes	47.3	Yes	
23	Wells 1,2,3	4,500				1.2	Yes	47.3	Yes	
24	Wells 1,2,3	4,900				1.4	Yes	47.3	Yes	
25	Wells 1,2,3	5,000				1.0	Yes	47.3	Yes	
26	Wells 1,2,3	5,200				1.1	Yes	47.3	Yes	
27	Wells 1,2,3	4,100				0.6	Yes	47.3	Yes	
28	Wells 1,2,3	5,300				1.3	Yes	47.3	Yes	
29	Wells 1,2,3	2,900				0.9	Yes	47.3	Yes	
30	Wells 1,2,3	6,000				1.1	Yes	47.3	Yes	
31	Wells 1,2,3	4,200				0.5	Yes	47.3	Yes	
Total		144,700			0					
Avg.		4,668				1.1		47.3		

Chlorine Mix Ratio = 8.0 Quarts/gallons of 15 % chlorine added to 48.0 gallons of water in crock

Date UV quartz sleeve last cleaned: N/A Date UV lamp replaced: N/A
MM/YYYY MM/YYYY

Alarm activation: No Yes If "Yes," date of activation: N/A Required treatment Residual level: 0.2 mg/l
MM/YYYY

Reported by: [Signature] Title: Area Manager NYSDDH Operator Certification Number: NY0034619
Signature: [Signature] Date: 9/7/2016 Operator Grade Level: HA/C/D
MM/YYYY

NEW YORK STATE DEPARTMENT OF HEALTH
Bureau of Water Supply Protection

Water System Operation Report
For Systems that Treat with Chlorine and/or Ultraviolet Radiation

Public Water System Name: Sunshine Children's Home Public Water System ID: NY 5910495

County: Westchester Town, Village or City: Ossining Source Water Type(s): Surface

Reporting Month/Year: September-2016 Date Report Submitted: 10/5/2016
MM/YYYY MM/YYYY

- Spring
 Ground
 Stream
 Purchase with subsequent chlorination
 Purchase w/eq subsequent chlorination
 High treatment required

Date	Source(s) in use	Treated water volume (GALLONS/Day)	CHLORINATION			ULTRAVIOLET RADIATION/OTHER TREATMENTS			
			Datages	Liquid	Free Chlorine residual at entry point (mg/l)	UV Unit Active (YES/NO)	Injection meter m/Mon 2	Quartz sleeve cleaned (YES/NO)	
			Cylinder weight (LBS.)	Chlorine used/Day (LBS.)	Hypochlorite added to crotch (GALLONS OR QUARTS)				
1	Well(s) 1 & 2	5,300				1.0	Yes	47.3	Yes
2	Well(s) 1 & 2	5,100			2.25	1.5	Yes	47.3	Yes
3	Well(s) 1 & 2	6,000				1.8	Yes	47.3	Yes
4	Well(s) 1 & 2	5,100				1.2	Yes	47.3	Yes
5	Well(s) 1 & 2	2,800				1.4	Yes	47.3	Yes
6	Well(s) 1 & 2	5,200				1.1	Yes	47.3	Yes
7	Well(s) 1 & 2	6,300				0.9	Yes	47.3	Yes
8	Well(s) 1 & 2	4,200				1.4	Yes	47.3	Yes
9	Well(s) 1 & 2	4,200			2.5	1.3	Yes	47.3	Yes
10	Well(s) 1 & 2	4,700				1.9	Yes	47.3	Yes
11	Well(s) 1 & 2	5,200				1.8	Yes	47.3	Yes
12	Well(s) 1 & 2	5,100				1.7	Yes	47.3	Yes
13	Well(s) 1 & 2	4,500				1.8	Yes	47.3	Yes
14	Well(s) 1 & 2	3,500				1.3	Yes	47.3	Yes
15	Well(s) 1 & 2	6,000			2.75	1.1	Yes	47.3	Yes
16	Well(s) 1 & 2	3,900				1.4	Yes	47.3	Yes
17	Well(s) 1 & 2	4,100				1.0	Yes	47.3	Yes
18	Well(s) 1 & 2	5,200				1.5	Yes	47.3	Yes
19	Well(s) 1 & 2	5,700				1.3	Yes	47.3	Yes
20	Well(s) 1 & 2	4,100				1.4	Yes	47.3	Yes
21	Well(s) 1 & 2	4,100			3.5	1.8	Yes	47.3	Yes
22	Well(s) 1 & 2	5,600				1.7	Yes	47.3	Yes
23	Well(s) 1 & 2	4,100				1.1	Yes	47.3	Yes
24	Well(s) 1 & 2	4,100				0.6	Yes	47.3	Yes
25	Well(s) 1 & 2	3,300				1.0	Yes	47.3	Yes
26	Well(s) 1 & 2	4,900				0.7	Yes	47.3	Yes
27	Well(s) 1 & 2	4,300				0.6	Yes	47.3	Yes
28	Well(s) 1 & 2	5,500				1.0	Yes	47.3	Yes
29	Well(s) 1 & 2	5,700			3.5	0.9	Yes	47.3	Yes
30	Well(s) 1 & 2	2,900				1.1	Yes	47.3	Yes
Total		140,900			14.5				
AVG.		4,697			2.9	1.3		47.3	

Chlorine Mix Ratio = 8.0 Quarts/gallons of 15 % chlorine added to 48.0 gallons of water in crotch

Date UV quartz sleeve last cleaned: 9/30/2016 Date UV lamp replaced: N/A
MM/DD/YYYY MM/DD/YYYY

Alarm activation: On Off If "Yes," date of activation: N/A Required Treatment Residual Level: 0.8 mg/l
MM/DD/YYYY

Reported by: Matt Kropp Title: Regional Manager NYSDOH Operator Certification Number: NY0034619

Signature: [Signature] Date: 10/5/2016 Operator Grade Level: IAC, D
MM/YYYY

Water System Name: Sunshine Children's Home Public Water System ID: NY 5910495

County: Westchester Town, Village or City: Ossining Source Water Type(s): Surface Ground Both

Reporting Month/Year: October-2016 Date Report Submitted: 11/4/2016
MM/YYYY MM/YYYY

- UV lamp with in-process chlorination
 Purchase within subsequent chlorination
 UV lamp subsequent chlorination

Date	Source(s) in use	Treated water volume (GALLONS/DAY)	CHLORINATION			Free Chlorine residual at entry point (mg/l)	UV Unit Active (YES/NO)	ULTRAVIOLET RADIATION/OTHER TREATMENTS			
			Gaseous		Liquid			Intensity meter mV/cm ²	Quartz sleeve cleaned (YES/NO)		
			Cylinder weight (LBS.)	Chlorine used/Day (LBS.)	Hypochlorite added to tank (GALLONS OF QUARTZ)						
1	Well(s) 1 & 2	5,600				1.5	Yes	47.3	Yes		
2	Well(s) 1 & 2	4,600				1.4	Yes	47.3	Yes		
3	Well(s) 1 & 2	9,000				0.7	Yes	56.0	Yes		
4	Well(s) 1 & 2	3,900				1.2	Yes	54.1	Yes		
5	Well(s) 1 & 2	4,000				0.8	Yes	55.1	Yes		
6	Well(s) 1 & 2	7,400				1.3	Yes	58.0	Yes		
7	Well(s) 1 & 2	3,200			2.5	1.1	Yes	56.0	Yes		
8	Well(s) 1 & 2	4,600				1.1	Yes	57.0	Yes		
9	Well(s) 1 & 2	5,400				1.2	Yes	56.0	Yes		
10	Well(s) 1 & 2	2,600				0.9	Yes	54.1	Yes		
11	Well(s) 1 & 2	6,100				0.7	Yes	55.1	Yes		
12	Well(s) 1 & 2	6,600				0.6	Yes	53.1	Yes		
13	Well(s) 1 & 2	5,500				0.3	Yes	54.1	Yes		
14	Well(s) 1 & 2	2,300			1.25	1.8	Yes	54.1	Yes		
15	Well(s) 1 & 2	4,200				1.9	Yes	55.9	Yes		
16	Well(s) 1 & 2	7,200				1.4	Yes	50.8	Yes		
17	Well(s) 1 & 2	5,300				1.4	Yes	55.1	Yes		
18	Well(s) 1 & 2	5,800			2.75	0.7	Yes	56.0	Yes		
19	Well(s) 1 & 2	6,600				1.1	Yes	55.1	Yes		
20	Well(s) 1 & 2	5,300				1.4	Yes	55.1	Yes		
21	Well(s) 1 & 2	3,200			2.5	1.4	Yes	55.1	Yes		
22	Well(s) 1 & 2	3,500				1.0	Yes	55.9	Yes		
23	Well(s) 1 & 2	5,100				1.5	Yes	55.9	Yes		
24	Well(s) 1 & 2	5,200			2	1.7	Yes	55.7	Yes		
25	Well(s) 1 & 2	5,200				1.2	Yes	52.2	Yes		
26	Well(s) 1 & 2	5,900				1.7	Yes	52.2	Yes		
27	Well(s) 1 & 2	4,600				0.9	Yes	51.2	Yes		
28	Well(s) 1 & 2	3,500				0.5	Yes	51.2	Yes		
29	Well(s) 1 & 2	4,700				1.2	Yes	50.8	Yes		
30	Well(s) 1 & 2	5,000				1.5	Yes	50.8	Yes		
31	Well(s) 1 & 2	3,900				1.7	Yes	57.0	Yes		
Total		155,000			11						
AVG.		5,000			2.2	1.2		54.0			

Chlorine Mix Ratio = 8.0 Quarts/gallons of 15 % chlorine added to 48.0 gallons of water in tank

Date UV quartz sleeve last cleaned: 10/31/2016 Date UV lamp replaced: N/A
MM/DD/YY MM/DD/YY

Alarm activation: No Yes If "Yes," date of activation: N/A Required Treatment Residual Level: 0.2 mg/l
MM/DD/YY

Reported by: Matt Kroeg Title: Regional Manager NYS/DOH Operator Certification Number: NY0034619

Signature: [Signature] Date: 11/4/2016 Operator Grade Level: IIA,C,D
MM/YYYY

NEW YORK STATE DEPARTMENT OF HEALTH
Bureau of Water Supply Protection

Water System Operation Report
For Systems that Treat with Chlorine and/or Ultraviolet Radiation

Public Water System Name: Sunshine Children's Home Public Water System ID: NY 6910495

County: Westchester Town, Village or City: Ossining Source Water Type(s): Ground Surface Private with subsequent chlorination 1 log treatment required

Reporting Month/Year: November-2016 Date Report Submitted: 12/9/2016

Date	Source(s) in use	Treated water volume (GALLONS/DAY)	CHLORINATION			Free Chlorine residual at entry point (mg/L)	ULTRAVIOLET RADIATION/OTHER TREATMENTS		
			Cylinder Weight (LBS.)	Chlorine used/Day (LBS.)	Hypochlorite added to crock (GALLONS OR QUARTS)		UV Unit Active (YES/NO)	Intensity meter value m 2	Quartz sleeve cleaned (YES/NO)
1	Well(s) 1 & 2	4,900				1.1	Yes	57.0	Yes
2	Well(s) 1 & 2	5,800				0.5	Yes	57.0	Yes
3	Well(s) 1 & 2	15,700				1.7	Yes	57.0	Yes
4	Well(s) 1 & 2	3,700				0.7	Yes	58.0	Yes
5	Well(s) 1 & 2	3,700				1.4	Yes	58.0	Yes
6	Well(s) 1 & 2	6,400				1.1	Yes	58.9	Yes
7	Well(s) 1 & 2	3,200				1.6	Yes	57.0	Yes
8	Well(s) 1 & 2	6,300				1.5	Yes	53.1	Yes
9	Well(s) 1 & 2	5,300				1.2	Yes	56.0	Yes
10	Well(s) 1 & 2	2,700				1.1	Yes	57.0	Yes
11	Well(s) 1 & 2	4,800				1.1	Yes	57.0	Yes
12	Well(s) 1 & 2	3,300				1.3	Yes	57.0	Yes
13	Well(s) 1 & 2	4,400				1.4	Yes	57.0	Yes
14	Well(s) 1 & 2	4,000				1.3	Yes	55.0	Yes
15	Well(s) 1 & 2	6,500				1.3	Yes	57.0	Yes
16	Well(s) 1 & 2	3,600				0.6	Yes	56.0	Yes
17	Well(s) 1 & 2	5,000				0.3	Yes	56.0	Yes
18	Well(s) 1 & 2	4,000				1.8	Yes	55.0	Yes
19	Well(s) 1 & 2	4,200				1.8	Yes	57.0	Yes
20	Well(s) 1 & 2	6,700				1.5	Yes	55.0	Yes
21	Well(s) 1 & 2	3,100				1.7	Yes	56.0	Yes
22	Well(s) 1 & 2	5,500				1.9	Yes	55.1	Yes
23	Well(s) 1 & 2	3,800				1.0	Yes	55.1	Yes
24	Well(s) 1 & 2	4,300				0.8	Yes	55.1	Yes
25	Well(s) 1 & 2	4,700				0.5	Yes	58.0	Yes
26	Well(s) 1 & 2	3,500				0.6	Yes	55.1	Yes
27	Well(s) 1 & 2	5,600				1.1	Yes	50.8	Yes
28	Well(s) 1 & 2	4,700				1.5	Yes	52.0	Yes
29	Well(s) 1 & 2	4,200				1.1	Yes	53.0	Yes
30	Well(s) 1 & 2	5,300				0.8	Yes	53.1	Yes
31									
Total		148,900			0				
AVG.		4,963				1.2		55.8	

Chlorine Mix Ratio = 8.0 Quarts/gallons of 15 % chlorine added to 48.0 gallons of water in crock

Date UV quartz sleeve last cleaned: 11/30/2016 Date UV lamp replaced: N/A

Alarm activation: If "Yes," date of activation: N/A Required Treatment Residual Level: 0.2 mg/l

Reported by: Matt Kroog Title: Regional Manager NYSDOH Operator Certification Number: NY0034619

Signature: _____ Date: 12/9/2016 Operator Grade Level: IIA,C,D

Public Water System Name: Sunshine Children's Home Public Water System ID: NY 5910495

County: Westchester Town, Village or City: Ossining Source Water Type(s): Surface Ground

Reporting Month/Year: December-2016 Date Report Submitted: 1/6/2017

- Surface
- Ground
- Both
- Purchase of tap subsequent chlorination
- Purchase of tap subsequent chlorination
- No treatment required

Date	Source(s) in use	Treated water volume (GALLONS)	CHLORINATION			ULTRAVIOLET RADIATION/OTHER TREATMENTS				
			Gas/Day (LBS.)	Liquid Chlorine used/Day (LBS.)	Free Chlorine residual at entry point (mg/L)	UV Unit Active (YES/NO)	Intensity meter mJ/cm ²	Quartz sleeve cleaned (YES/NO)		
1	Well(s) 1 & 2	4,300			0.6	Yes	63.8	Yes		
2	Well(s) 1 & 2	3,800			0.5	Yes	63.8	Yes		
3	Well(s) 1 & 2	3,900			0.4	Yes	60.0	Yes		
4	Well(s) 1 & 2	5,100			0.5	Yes	55.0	Yes		
5	Well(s) 1 & 2	4,300			0.5	Yes	57.0	Yes		
6	Well(s) 1 & 2	4,400			0.6	Yes	59.9	Yes		
7	Well(s) 1 & 2	4,900			0.3	Yes	58.1	Yes		
8	Well(s) 1 & 2	4,700			0.6	Yes	57.0	Yes		
9	Well(s) 1 & 2	2,900		1	1.0	Yes	64.8	Yes		
10	Well(s) 1 & 2	5,100			1.4	Yes	70.0	Yes		
11	Well(s) 1 & 2	6,100			1.0	Yes	55.0	Yes		
12	Well(s) 1 & 2	3,300			0.6	Yes	47.3	Yes		
13	Well(s) 1 & 2	4,900			0.5	Yes	47.3	Yes		
14	Well(s) 1 & 2	4,800			0.5	Yes	47.3	Yes		
15	Well(s) 1 & 2	4,700			0.5	Yes	47.3	Yes		
16	Well(s) 1 & 2	3,700			0.6	Yes	47.3	Yes		
17	Well(s) 1 & 2	3,300			0.4	Yes	47.3	Yes		
18	Well(s) 1 & 2	5,000			0.6	Yes	64.8	Yes		
19	Well(s) 1 & 2	3,700			0.9	Yes	64.8	Yes		
20	Well(s) 1 & 2	5,100			1.5	Yes	64.8	Yes		
21	Well(s) 1 & 2	4,500			1.4	Yes	64.8	Yes		
22	Well(s) 1 & 2	5,800		1.5	1.7	Yes	64.8	Yes		
23	Well(s) 1 & 2	2,700			1.5	Yes	64.8	Yes		
24	Well(s) 1 & 2	8,600			1.3	Yes	64.8	Yes		
25	Well(s) 1 & 2	1,900			1.4	Yes	64.8	Yes		
26	Well(s) 1 & 2	2,900			0.8	Yes	64.8	Yes		
27	Well(s) 1 & 2	5,300			0.5	Yes	64.8	Yes		
28	Well(s) 1 & 2	4,000			1.1	Yes	64.8	Yes		
29	Well(s) 1 & 2	4,300			1.2	Yes	64.8	Yes		
30	Well(s) 1 & 2	3,000			1.8	Yes	64.8	Yes		
31	Well(s) 1 & 2	4,900			0.8	Yes	64.8	Yes		
Total		135,900			2.5					
AVG.		4,384			1.3		59.9			

Chlorine Mix Ratio = 8.0 Quarts/gallons of 15 % chlorine added to 48.0 gallons of water in each

Date UV quartz sleeve last cleaned: 12/31/2016 Date UV lamp replaced: N/A

Alarm activation: On Off If "Yes," date of activation: N/A Required Treatment (at Risk) Level: 0.2 mg/l

Reported by: Matt Kroog Title: Regional Manager NYSDOH Operator Certification Number: NY0034619

Signature: [Signature] Date: 1/6/2017 Operator Grade Level: IIA, C, D

NEW YORK STATE DEPARTMENT OF HEALTH
Bureau of Water Supply Protection

Water System Operation Report
For Systems that Treat with Chlorine and/or Ultraviolet Radiation

Public Water System Name: Sunshine Children's Home Public Water System ID: NY 5910495

County: Westchester Town, Village or City: Ossining Source Water Type(s): Surface Ground Snow Purchase with subsequent distribution Purchase with subsequent chlorination Biological treated

Reporting Month/Year: January-2017 Date Report Submitted: 2/1/2017

Date	Source(s) in use	Treated water volume (MILLIGALLONS/DAY)	CHLORINATION			ULTRAVIOLET RADIATION/OTHER TREATMENTS		
			Gaseous Cylinder weight (LBS.)	Liquid Chlorine used/Day (LBS.)	Free Chlorine residual at entry point (mg/l)	UV Unit Active (YES/NO)	Intensity meter mJ/cm ²	Quartz sleeves cleaned (YES/NO)
1	Well(s) 1 & 2	4,900			0.6	Yes	64.8	Yes
2	Well(s) 1 & 2	3,200			0.6	Yes	64.8	Yes
3	Well(s) 1 & 2	4,800			0.8	Yes	64.8	Yes
4	Well(s) 1 & 2	4,000			1.0	Yes	64.8	Yes
5	Well(s) 1 & 2	5,700			2.5	Yes	64.8	Yes
6	Well(s) 1 & 2	4,200			0.7	Yes	64.8	Yes
7	Well(s) 1 & 2	3,100			0.5	Yes	55.9	Yes
8	Well(s) 1 & 2	6,500			0.5	Yes	64.8	Yes
9	Well(s) 1 & 2	3,100			0.6	Yes	64.8	Yes
10	Well(s) 1 & 2	5,500			1.2	Yes	64.8	Yes
11	Well(s) 1 & 2	5,900			1.1	Yes	64.8	Yes
12	Well(s) 1 & 2	3,100			0.6	Yes	64.8	Yes
13	Well(s) 1 & 2	3,800			1.5	Yes	64.8	Yes
14	Well(s) 1 & 2	4,400			1.3	Yes	64.8	Yes
15	Well(s) 1 & 2	4,400			0.9	Yes	64.8	Yes
16	Well(s) 1 & 2	3,900			1.1	Yes	64.8	Yes
17	Well(s) 1 & 2	4,600			0.7	Yes	64.8	Yes
18	Well(s) 1 & 2	5,300			0.6	Yes	64.8	Yes
19	Well(s) 1 & 2	3,900			0.7	Yes	64.8	Yes
20	Well(s) 1 & 2	4,400			0.4	Yes	64.8	Yes
21	Well(s) 1 & 2	3,900			1.5	Yes	64.8	Yes
22	Well(s) 1 & 2	5,300			1.0	Yes	64.8	Yes
23	Well(s) 1 & 2	4,800			0.9	Yes	64.8	Yes
24	Well(s) 1 & 2	3,700			0.5	Yes	64.8	Yes
25	Well(s) 1 & 2	3,900			1.9	Yes	64.8	Yes
26	Well(s) 1 & 2	3,900			1.3	Yes	64.8	Yes
27	Well(s) 1 & 2	3,500			1.1	Yes	64.8	Yes
28	Well(s) 1 & 2	4,200			1.1	Yes	64.8	Yes
29	Well(s) 1 & 2	4,600			0.8	Yes	64.8	Yes
30	Well(s) 1 & 2	3,600			1.7	Yes	64.8	Yes
31	Well(s) 1 & 2	4,600			1.8	Yes	64.8	Yes
Total		134,500			5.5			
AVG.		4,339			1.8		64.5	

Chlorine Mix Ratio = 8.0 Quarts/gallons of 15 % chlorine added to 48.0 gallons of water in tank

Date UV quartz sleeves last cleaned: 1/31/2017 Date UV lamp replaced: N/A

Alarm activation: No Yes If "Yes," date of activation: N/A Required Treatment Residual Level: 0.2 mg/l

Reported by: Matt Kroeg Title: Regional Manager NYSDOH Operator Certification Number: NY0034619

Signature: [Signature] Date: 2/1/2017 Operator Grade Level: HA,C,D

Public Water System Name: Sunshine Children's Home Public Water System ID: NY 5910495

County: Westchester Town/Village or City: Ossining Source Water Type(s): _____

Reporting Month/Year: February-2017 Date Report Submitted: 3/8/2017
MM/YYYY MM/YYYY

- Private
 Purchase with subsequent chlorination
 If no treatment required

Date	Source(s) in use	Treated water volume (GALLONS DAY)	CHLORINATION			Free Chlorine residual at entry point (mg/l)	ULTRAVIOLET RADIATION/OTHER TREATMENTS		
			Gaseous		Hypochlorite added to crotch (GALLONS OR QUARTS)		UV Unit Active (YES/NO)	Intensity meter mRem 2	Quartz sleeve cleaned (YES/NO)
			Cylinder weight (LBS.)	Chlorine used/Day (LBS.)					
1	Well(s) 1 & 2	4,600				1.2	Yes	64.8	Yes
2	Well(s) 1 & 2	4,900				1.2	Yes	64.8	Yes
3	Well(s) 1 & 2	3,400				1.7	Yes	64.8	Yes
4	Well(s) 1 & 2	4,100				1.1	Yes	64.8	Yes
5	Well(s) 1 & 2	3,800				1.2	Yes	64.8	Yes
6	Well(s) 1 & 2	5,400				1.9	Yes	64.8	Yes
7	Well(s) 1 & 2	3,300				0.8	Yes	64.8	Yes
8	Well(s) 1 & 2	5,700				0.7	Yes	64.8	Yes
9	Well(s) 1 & 2	3,400				0.7	Yes	64.8	Yes
10	Well(s) 1 & 2	3,500				1.3	Yes	64.8	Yes
11	Well(s) 1 & 2	4,500				1.2	Yes	64.8	Yes
12	Well(s) 1 & 2	4,500				1.3	Yes	64.8	Yes
13	Well(s) 1 & 2	4,100				0.4	Yes	64.8	Yes
14	Well(s) 1 & 2	3,400				0.7	Yes	64.8	Yes
15	Well(s) 1 & 2	5,600				1.2	Yes	64.8	Yes
16	Well(s) 1 & 2	5,600				1.1	Yes	64.8	Yes
17	Well(s) 1 & 2	3,200			3.5	1.1	Yes	64.8	Yes
18	Well(s) 1 & 2	4,100			2	0.7	Yes	64.8	Yes
19	Well(s) 1 & 2	5,800				1.5	Yes	64.8	Yes
20	Well(s) 1 & 2	3,400				1.0	Yes	64.8	Yes
21	Well(s) 1 & 2	5,500				1.8	Yes	64.8	Yes
22	Well(s) 1 & 2	5,500				1.2	Yes	64.8	Yes
23	Well(s) 1 & 2	3,300				0.8	Yes	64.8	Yes
24	Well(s) 1 & 2	3,100			2.25	0.7	Yes	64.8	Yes
25	Well(s) 1 & 2	4,200				0.3	Yes	64.8	Yes
26	Well(s) 1 & 2	4,600				0.4	Yes	64.8	Yes
27	Well(s) 1 & 2	6,500				0.7	Yes	64.8	Yes
28	Well(s) 1 & 2	8,400				1.0	Yes	64.8	Yes
Total		127,400				0.75			
AVG.		4,550				2.6		1.1	64.8

Chlorine Mix Ratio = 8.0 Quarts/gallons of 15 % chlorine added to 48.0 gallons of water in crotch

Date UV quartz sleeve last cleaned: 2/28/2017 Date UV lamp replaced: N/A
MM/DD/YYYY MM/DD/YYYY

Alarm activation: Yes If "Yes," date of activation: N/A Required Treatment Residual Level: 0.2 mg/l
MM/DD/YYYY MM/DD/YYYY

Reported by: Maia Krog Title: Regional Manager NYSDOH Operator Certification Number: NY0034619

Signature: [Signature] Date: 3/8/2017 Operator Grade Level: HA,CD
MM/YYYY

NEW YORK STATE DEPARTMENT OF HEALTH
Bureau of Water Supply Protection

Water System Operation Report
For Systems that Treat with Chlorine and/or Ultraviolet Radiation

Public Water System Name: Sunshine Children's Home Public Water System ID: NY 5910495
 County: Westchester Town, Village or City: Ossining Source Water Type(s): Surface
 Ground
 Both
 Treated with subsequent chlorination
 Purchase of tap water from another source
 Not a treatment required
 Reporting Month/Year: March-2017 Date Report Submitted: 4/4/2017
 MM/YYYY MM/YYYY

DHP	Source(s) in use	Treated water volume (gallons/day)	CHLORINATION			Free Chlorine residual at entry point (mg/l)	UV Unit Active (YES/NO)	ULTRAVIOLET RADIATION/OTHER TREATMENTS		
			Gasous	Liquid				Intensity meter in/ftm 2	Quartz sleeve cleaned (YES/NO)	
			Cylinder weight (LBS.)	Chlorine use/Day (LBS.)	Hypochlorite added to stock (GALLONS OR QUARTS)					
1	Well(s) 1 & 2	3,700				0.6	Yes	64.8	Yes	
2	Well(s) 1 & 2	5,500				0.5	Yes	64.8	Yes	
3	Well(s) 1 & 2	3,200			2	0.6	Yes	64.8	Yes	
4	Well(s) 1 & 2	4,000				0.8	Yes	64.8	Yes	
5	Well(s) 1 & 2	5,000				0.8	Yes	64.8	Yes	
6	Well(s) 1 & 2	3,500				1.0	Yes	64.8	Yes	
7	Well(s) 1 & 2	5,800				1.0	Yes	64.8	Yes	
8	Well(s) 1 & 2	3,700				0.8	Yes	64.8	Yes	
9	Well(s) 1 & 2	5,000				0.6	Yes	64.8	Yes	
10	Well(s) 1 & 2	3,300			2	0.3	Yes	64.8	Yes	
11	Well(s) 1 & 2	3,400				0.6	Yes	64.8	Yes	
12	Well(s) 1 & 2	5,200				1.3	Yes	64.8	Yes	
13	Well(s) 1 & 2	2,900				1.5	Yes	64.8	Yes	
14	Well(s) 1 & 2	5,700				1.2	Yes	64.8	Yes	
15	Well(s) 1 & 2	3,900				1.1	Yes	64.8	Yes	
16	Well(s) 1 & 2	4,400				1.1	Yes	64.8	Yes	
17	Well(s) 1 & 2	4,500				0.8	Yes	64.8	Yes	
18	Well(s) 1 & 2	3,300				0.5	Yes	64.8	Yes	
19	Well(s) 1 & 2	4,200				1.4	Yes	64.8	Yes	
20	Well(s) 1 & 2	4,300				1.0	Yes	64.8	Yes	
21	Well(s) 1 & 2	5,900				0.8	Yes	64.8	Yes	
22	Well(s) 1 & 2	4,300				0.6	Yes	64.8	Yes	
23	Well(s) 1 & 2	4,200				0.7	Yes	64.8	Yes	
24	Well(s) 1 & 2	3,800			2	0.6	Yes	64.8	Yes	
25	Well(s) 1 & 2	4,000				0.8	Yes	64.8	Yes	
26	Well(s) 1 & 2	6,000				0.3	Yes	64.8	Yes	
27	Well(s) 1 & 2	3,600				1.0	Yes	64.8	Yes	
28	Well(s) 1 & 2	4,800				1.0	Yes	64.8	Yes	
29	Well(s) 1 & 2	6,100				1.0	Yes	64.8	Yes	
30	Well(s) 1 & 2	5,000				1.6	Yes	64.8	Yes	
31	Well(s) 1 & 2	3,300			2.5	1.1	Yes	64.8	Yes	
Total		135,500				8.5				
AVG.		4,371				2.1	0.9	64.8		

Chlorine Mix Ratio = 8.0 Quarts/gallons of 15 % chlorine added to 48.0 gallons of water in tank

Date UV quartz sleeve last cleaned: 3/31/2017 Date UV lamp replaced: N/A
 MM/YYYY MM/YYYY

Alarm activation: On If "Yes," date of activation: N/A Required Treatment Residual Level: 0.2 mg/l
 MM/YYYY

Reported by: Mill Kroger Title: Regional Manager NYSDOH Operator Certification Number: NY0034619

Signature: [Signature] Date: 4/4/2017 Operator Grade Level: IIA, C, D
 MM/YYYY

NEW YORK STATE DEPARTMENT OF HEALTH
 Bureau of Water Supply Protection

Water System Operation Report
 For Systems that Treat with Chlorine and/or Ultraviolet Radiation

Public Water System Name: Sunshine Children's Home Public Water System ID: NY 5910495

County: Westchester Town, Village or City: Ossining Source Water Type(s): Surface
 Ground
 Both
 Purchase with subsequent chlorination
 Purchase w/out subsequent chlorination
 Not treated/asked

Reporting Month/Year: April-2017 Data Report Submitted: 5/1/2017
 MM/YYYY MM/YYYY

Date	Well(s) in use	Treated water volume (gallons/day)	CHLORINATION			Free Chlorine residual at entry point (mg/l)	UV Unit Active (YES/NO)	ULTRAVIOLET RADIATION/OTHER TREATMENTS	
			Cylinder weight (LBS.)	Chlorine used/Day (LBS.)	Hypochlorite added to creak (LBS./GAL/1000)			Intensity meter m/can 2	Quartz sleeve cleaned (YES/NO)
1	Well(s) 1 & 2	4,100				1.6	Yes	64.8	Yes
2	Well(s) 1 & 2	7,800				1.7	Yes	64.8	Yes
3	Well(s) 1 & 2	3,800				1.4	Yes	64.8	Yes
4	Well(s) 1 & 2	5,100				1.0	Yes	64.8	Yes
5	Well(s) 1 & 2	6,100				1.4	Yes	64.8	Yes
6	Well(s) 1 & 2	4,200				1.3	Yes	64.8	Yes
7	Well(s) 1 & 2	3,500			2.25	1.0	Yes	64.8	Yes
8	Well(s) 1 & 2	4,800				1.5	Yes	64.8	Yes
9	Well(s) 1 & 2	4,900				1.6	Yes	64.8	Yes
10	Well(s) 1 & 2	5,500				1.3	Yes	64.8	Yes
11	Well(s) 1 & 2	6,100				1.4	Yes	64.8	Yes
12	Well(s) 1 & 2	3,200				1.4	Yes	64.8	Yes
13	Well(s) 1 & 2	5,100				1.4	Yes	64.8	Yes
14	Well(s) 1 & 2	4,700			2.25	1.2	Yes	64.8	Yes
15	Well(s) 1 & 2	4,800				0.8	Yes	64.8	Yes
16	Well(s) 1 & 2	5,900				1.1	Yes	64.8	Yes
17	Well(s) 1 & 2	3,800				1.1	Yes	64.8	Yes
18	Well(s) 1 & 2	6,200				1.2	Yes	64.8	Yes
19	Well(s) 1 & 2	5,600				1.1	Yes	64.8	Yes
20	Well(s) 1 & 2	5,900				0.9	Yes	64.8	Yes
21	Well(s) 1 & 2	4,300			2.25	1.0	Yes	64.8	Yes
22	Well(s) 1 & 2	4,800				0.7	Yes	64.8	Yes
23	Well(s) 1 & 2	6,600				0.8	Yes	64.8	Yes
24	Well(s) 1 & 2	5,400				1.2	Yes	64.8	Yes
25	Well(s) 1 & 2	5,200				1.5	Yes	64.8	Yes
26	Well(s) 1 & 2	2,550				1.3	Yes	64.8	Yes
27	Well(s) 1 & 2	4,600				1.5	Yes	64.8	Yes
28	Well(s) 1 & 2	6,100			1.25	1.0	Yes	64.8	Yes
29	Well(s) 1 & 2	6,800				0.8	Yes	64.8	Yes
30	Well(s) 1 & 2	6,300				1.7	Yes	64.8	Yes
Total		153,750			8				
AVG.		5,125			2.0	1.2		64.8	

Chlorine Mix Ratio = 8.0 Quarts/gallons of 15 % chlorine added to 48.0 gallons of water in creak

Date UV quartz sleeve last cleaned: 4/30/2017 Date UV lamp replaced: N/A
 MM/DD/YY MM/DD/YY

Alarm activation: 11/14 If "Yes," date of activation: N/A Required Treatment Residual Level: 0.2 mg/l
 MM/DD/YY

Reported by: Matt Krobb Title: Regional Manager NYSDOH Operator Certification Number: NY0034619

Signature: [Signature] Date: 5/1/2017 Operator Grade Level: IIA,C,D
 MM/YYYY

NEW YORK STATE DEPARTMENT OF HEALTH
Bureau of Water Supply Protection

Water System Operation Report
For Systems that Treat with Chlorine and/or Ultraviolet Radiation

Public Water System Name: Sunshine Children's Home Public Water System ID: NY 5910495

County: Westchester Town/Village/City: Ossining Source Water Type(s): Surface
 Ground
 Both
 Purchase with subsequent chlorination
 Purchase with subsequent disinfection
 If log treatment is required

Reporting Month/Year: May-2017 Date Report Submitted: 6/8/2017
MM/YYYY MM/YYYY

Date	Source(s) in use	Treated water volume (GAL/24 HRS)	CHLORINATION			Free Chlorine residual at entry point (mg/l)	UV Unit Active (YES/NO)	ULTRAVIOLET RADIATION/OTHER TREATMENTS			
			Cylinder weight (LBS.)	Chlorine used/Day (LBS.)	Hypochlorite added to creak (GALLONS/24 HOURS)			Intensity meter mV/cm ²	Quartz sleeve cleaned (YES/NO)		
1	Well(s) 1 & 2	8,000				1.7	Yes	64.8	Yes		
2	Well(s) 1 & 2	4,800				1.2	Yes	64.8	Yes		
3	Well(s) 1 & 2	6,700			4	0.9	Yes	64.8	Yes		
4	Well(s) 1 & 2	5,500				0.9	Yes	64.8	Yes		
5	Well(s) 1 & 2	4,100				0.7	Yes	64.8	Yes		
6	Well(s) 1 & 2	6,500				0.4	Yes	64.8	Yes		
7	Well(s) 1 & 2	6,800				1.2	Yes	64.8	Yes		
8	Well(s) 1 & 2	4,900				0.9	Yes	64.8	Yes		
9	Well(s) 1 & 2	4,900				0.4	Yes	64.8	Yes		
10	Well(s) 1 & 2	6,800				0.5	Yes	64.8	Yes		
11	Well(s) 1 & 2	5,900				1.0	Yes	64.8	Yes		
12	Well(s) 1 & 2	4,300			3	0.7	Yes	64.8	Yes		
13	Well(s) 1 & 2	5,700				0.4	Yes	64.8	Yes		
14	Well(s) 1 & 2	7,500				0.7	Yes	64.8	Yes		
15	Well(s) 1 & 2	5,100				0.7	Yes	64.8	Yes		
16	Well(s) 1 & 2	7,200				0.6	Yes	64.8	Yes		
17	Well(s) 1 & 2	4,200				0.7	Yes	64.8	Yes		
18	Well(s) 1 & 2	7,200				1.3	Yes	64.8	Yes		
19	Well(s) 1 & 2	6,600				0.5	Yes	64.8	Yes		
20	Well(s) 1 & 2	5,400				0.5	Yes	64.8	Yes		
21	Well(s) 1 & 2	5,900				1.2	Yes	64.8	Yes		
22	Well(s) 1 & 2	6,100				1.1	Yes	64.8	Yes		
23	Well(s) 1 & 2	6,200				1.0	Yes	64.8	Yes		
24	Well(s) 1 & 2	5,600			3.5	0.4	Yes	64.8	Yes		
25	Well(s) 1 & 2	7,900				0.9	Yes	64.8	Yes		
26	Well(s) 1 & 2	5,400				1.0	Yes	64.8	Yes		
27	Well(s) 1 & 2	5,900				1.5	Yes	64.8	Yes		
28	Well(s) 1 & 2	6,700				1.0	Yes	64.8	Yes		
29	Well(s) 1 & 2	5,300				0.9	Yes	64.8	Yes		
30	Well(s) 1 & 2	6,600				1.2	Yes	64.8	Yes		
31	Well(s) 1 & 2	6,700				1.0	Yes	64.8	Yes		
Total		186,400				10.5					
AVG.		6,013				3.5					

Chlorine Mix Ratio = 8.0 Quarts/gallons of 15 % chlorine added to 48.0 gallons of water in creak

Date UV quartz sleeve last cleaned: 5/31/2017 Date UV lamp replaced: N/A
MM/DD/YY MM/DD/YY

Alarm activation: If "Yes," date of activation: N/A Required Treatment Residual Level: 0.2 mg/l
MM/DD/YY

Reported by: Matt Kipoff Title: Regional Manager NYSDB Operator Certification Number: NY0034619

Signature: [Signature] Date: 6/8/2017 Operator Grade Level: HA,C,D
MM/YYYY

NEW YORK STATE DEPARTMENT OF HEALTH

Bureau of Water Supply Protection

Water System Operation Report

For Systems that Treat with Chlorine and/or Ultraviolet Radiation

Public Water System Name: Sunshine Children's Home Public Water System ID: NY 5910495

County: Westchester Town, Village or City: Ossining Source Water Type(s):

Reporting Month/Year: June-2017 Date Report Submitted: 7/7/2017
MM/YYYY MM/YYYY

- BWSR
 Purchase with subsequent distribution
 If by treatment required

Date	Source(s) in use	Treated water volume (GALLONS/DAY)	CHLORINATION			ULTRAVIOLET RADIATION/OTHER TREATMENTS			
			Cylinder weight (LBS.)	Chlorine used/Day (LBS.)	Hypochlorite added to creek (GALLONS/DAY)	Free Chlorine residual at entry point (mg/l)	UV Unit Active (YES/NO)	Intensity meter (m/cm 2)	Quartz sleeve cleaned (YES/NO)
1	Well(s) 1 & 2	8,400			3.25	0.9	Yes	64.8	Yes
2	Well(s) 1 & 2	6,100				1.5	Yes	64.8	Yes
3	Well(s) 1 & 2	6,100				1.9	Yes	64.8	Yes
4	Well(s) 1 & 2	9,900				1.7	Yes	64.8	Yes
5	Well(s) 1 & 2	6,700				1.3	Yes	64.8	Yes
6	Well(s) 1 & 2	9,400				1.5	Yes	64.8	Yes
7	Well(s) 1 & 2	8,100				1.7	Yes	64.8	Yes
8	Well(s) 1 & 2	6,600			3.5	1.6	Yes	64.8	Yes
9	Well(s) 1 & 2	6,000				1.8	Yes	64.8	Yes
10	Well(s) 1 & 2	7,800				1.8	Yes	64.8	Yes
11	Well(s) 1 & 2	9,800				1.7	Yes	64.8	Yes
12	Well(s) 1 & 2	6,600				1.1	Yes	64.8	Yes
13	Well(s) 1 & 2	7,100				1.5	Yes	64.8	Yes
14	Well(s) 1 & 2	8,100				1.1	Yes	64.8	Yes
15	Well(s) 1 & 2	9,500				1.2	Yes	64.8	Yes
16	Well(s) 1 & 2	5,500				1.7	Yes	64.8	Yes
17	Well(s) 1 & 2	8,000				1.4	Yes	64.8	Yes
18	Well(s) 1 & 2	9,600				1.3	Yes	64.8	Yes
19	Well(s) 1 & 2	8,800				1.1	Yes	64.8	Yes
20	Well(s) 1 & 2	8,300				0.8	Yes	64.8	Yes
21	Well(s) 1 & 2	5,400			4	0.9	Yes	64.8	Yes
22	Well(s) 1 & 2	4,700				1.3	Yes	64.8	Yes
23	Well(s) 1 & 2	3,700				0.7	Yes	64.8	Yes
24	Well(s) 1 & 2	5,000				0.7	Yes	64.8	Yes
25	Well(s) 1 & 2	3,300				0.8	Yes	64.8	Yes
26	Well(s) 1 & 2	4,500				0.3	Yes	64.8	Yes
27	Well(s) 1 & 2	4,300				0.3	Yes	64.8	Yes
28	Well(s) 1 & 2	3,100				1.0	Yes	64.8	Yes
29	Well(s) 1 & 2	3,200				1.3	Yes	64.8	Yes
30	Well(s) 1 & 2	3,000				1.5	Yes	64.8	Yes
Total		202,600			10.75			64.8	
AVG.		6,733			3.6	1.2		64.8	

Chlorine Mix Ratio = 8.0 Quarts/gallons of 15 % chlorine added to 48.0 gallons of water in creek

Date UV quartz sleeve last cleaned: 6/30/2017 Date UV lamp replaced: N/A
MM/DD/YY MM/DD/YY

Alarm activation: On Off If "Yes," date of activation: N/A Required treatment residual level: 0.2 mg/l
MM/DD/YY

Reported by: Matt Kroger Title: Regional Manager NYSDOH Operator Certification Number: NY0034619

Signature: [Signature] Date: 7/7/2017 Operator Grade Level: IIA,C,D
MM/YYYY

Public Water System Name: Sunshine Children's Home Public Water System ID: NY 5910495

County: Westchester Town, Village or City: Ossining Source Water Type(s): Surface

Reporting Month/Year: July-2017 Date Report Submitted: 8/7/2017

MM/YYYY

MM/YYYY

- Ground
 Spring
 Purchase from another operation
 Purchase from a treatment plant
 No treatment required

Date	Source(s) in Use	Treated water volume (GALLONS/DAY)	CHLORINATION			Free Chlorine residual at entry point (mg/l)	UV Unit Active (YES/NO)	ULTRAVIOLET RADIATION/OTHER TREATMENTS	
			Cylinder weight (LBS.)	Chlorine used/Day (LBS.)	Hypochlorite added to ctnk (GALLONS/QUARTS)			Intensity meter mRem 2	Quartz sleeve cleaned (YES/NO)
1	Well(s) 1 & 2	4,400				1.2	Yes	64.8	Yes
2	Well(s) 1 & 2	6,500				1.6	Yes	64.8	Yes
3	Well(s) 1 & 2	3,700				0.9	Yes	64.8	Yes
4	Well(s) 1 & 2	4,900				1.3	Yes	64.8	Yes
5	Well(s) 1 & 2	5,600				1.2	Yes	64.8	Yes
6	Well(s) 1 & 2	5,500				1.3	Yes	64.8	Yes
7	Well(s) 1 & 2	2,000				1.1	Yes	64.8	Yes
8	Well(s) 1 & 2	5,400				0.8	Yes	64.8	Yes
9	Well(s) 1 & 2	5,900				0.7	Yes	64.8	Yes
10	Well(s) 1 & 2	4,800				1.4	Yes	64.8	Yes
11	Well(s) 1 & 2	4,800				1.5	Yes	64.8	Yes
12	Well(s) 1 & 2	5,100				1.6	Yes	64.8	Yes
13	Well(s) 1 & 2	4,300				1.6	Yes	64.8	Yes
14	Well(s) 1 & 2	5,000			5	1.5	Yes	64.8	Yes
15	Well(s) 1 & 2	4,700				1.4	Yes	64.8	Yes
16	Well(s) 1 & 2	2,600				1.8	Yes	64.8	Yes
17	Well(s) 1 & 2	5,600				1.6	Yes	64.8	Yes
18	Well(s) 1 & 2	5,600				1.7	Yes	64.8	Yes
19	Well(s) 1 & 2	4,500				1.5	Yes	64.8	Yes
20	Well(s) 1 & 2	5,300				1.7	Yes	64.8	Yes
21	Well(s) 1 & 2	4,700				1.6	Yes	64.8	Yes
22	Well(s) 1 & 2	4,900				1.0	Yes	64.8	Yes
23	Well(s) 1 & 2	4,600				1.3	Yes	64.8	Yes
24	Well(s) 1 & 2	5,000				1.2	Yes	64.8	Yes
25	Well(s) 1 & 2	3,600				1.0	Yes	64.8	Yes
26	Well(s) 1 & 2	4,500				1.4	Yes	64.8	Yes
27	Well(s) 1 & 2	5,100			3.25	1.2	Yes	64.8	Yes
28	Well(s) 1 & 2	5,600				1.0	Yes	64.8	Yes
29	Well(s) 1 & 2	3,500				0.9	Yes	64.8	Yes
30	Well(s) 1 & 2	4,500				1.0	Yes	64.8	Yes
31	Well(s) 1 & 2	5,100				0.7	Yes	64.8	Yes
Total		147,300			8.25				
AVG.		4,752			4.1	1.3		64.8	

Chlorine Mix Ratio = 8.0 Quarts/gallons of 15 % chlorine added to 48.0 gallons of water in ctnk.

Date UV quartz sleeve last cleaned: 7/31/2017 Date UV lamp replaced: N/A

Alarm activation: No Yes If "Yes," date of activation: N/A Required Treatment Residual Level: 0.2 mg/l

Reported by: Matt Kropp Title: Regional Manager NYSOPH Operator Certification Number: NY0034619

Signature: [Signature] Date: 8/7/2017 Operator Grade Level: HA,CD

Public Water System Name: Sunshine Children's Home Public Water System ID: NY 5910495

County: Westchester Town, Village or City: Ossining Source Water Type(s): Surface Ground Both

Reporting Month/Year: August-2017 Date Report Submitted: 9/7/2017
MM/YYYY MM/YYYY

- Surface
- Ground
- Both
- Chlorine with subsequent chlorination
- Prechlorination with subsequent chlorination
- UV with subsequent chlorination

Date	Source(s) in use	Treated water volume (GAL/24HRS)	CHLORINATION			ULTRAVIOLET RADIATION/OTHER TREATMENTS			
			Gaseous		Liquid	Free Chlorine residual at entry point (mg/l)	UV Unit Active (YES/NO)	Intensity meter mJ/cm ²	Quartz sleeve cleaned (YES/NO)
			Cylinder weight (LBS.)	Chlorine used/Day (LBS.)	Hypochlorite added to crotch (GAL/24HRS OR QUANT.)				
1	Well(s) 1 & 2	4,600				1.3	Yes	64.8	Yes
2	Well(s) 1 & 2	3,800				1.4	Yes	64.8	Yes
3	Well(s) 1 & 2	5,200				1.4	Yes	64.8	Yes
4	Well(s) 1 & 2	6,800				1.0	Yes	64.8	Yes
5	Well(s) 1 & 2	9,200				0.5	Yes	64.8	Yes
6	Well(s) 1 & 2	9,100				1.4	Yes	64.8	Yes
7	Well(s) 1 & 2	5,100				0.8	Yes	64.8	Yes
8	Well(s) 1 & 2	4,200			5	1.6	Yes	64.8	Yes
9	Well(s) 1 & 2	3,800				1.6	Yes	64.8	Yes
10	Well(s) 1 & 2	4,900				1.4	Yes	64.8	Yes
11	Well(s) 1 & 2	5,600				1.0	Yes	64.8	Yes
12	Well(s) 1 & 2	4,400				0.8	Yes	64.8	Yes
13	Well(s) 1 & 2	3,700				0.8	Yes	64.8	Yes
14	Well(s) 1 & 2	4,600				0.8	Yes	64.8	Yes
15	Well(s) 1 & 2	5,000				0.7	Yes	64.8	Yes
16	Well(s) 1 & 2	5,000				0.6	Yes	64.8	Yes
17	Well(s) 1 & 2	4,600				0.8	Yes	64.8	Yes
18	Well(s) 1 & 2	4,500				1.2	Yes	64.8	Yes
19	Well(s) 1 & 2	4,600				0.9	Yes	64.8	Yes
20	Well(s) 1 & 2	4,400				1.3	Yes	64.8	Yes
21	Well(s) 1 & 2	4,200			3.75	1.2	Yes	64.8	Yes
22	Well(s) 1 & 2	4,500				1.2	Yes	64.8	Yes
23	Well(s) 1 & 2	4,500				1.7	Yes	64.8	Yes
24	Well(s) 1 & 2	5,600				1.7	Yes	64.8	Yes
25	Well(s) 1 & 2	3,900				1.8	Yes	64.8	Yes
26	Well(s) 1 & 2	4,700				1.0	Yes	64.8	Yes
27	Well(s) 1 & 2	3,800				1.2	Yes	64.8	Yes
28	Well(s) 1 & 2	4,000				1.0	Yes	64.8	Yes
29	Well(s) 1 & 2	5,500				1.6	Yes	64.8	Yes
30	Well(s) 1 & 2	4,500				0.8	Yes	64.8	Yes
31	Well(s) 1 & 2	3,700			2.5	0.5	Yes	64.8	Yes
Total		154,000				11.25			
AVG.		4,968				3.8		64.8	

Chlorine Mix Ratio = 8.0 Quarts/gallons of 15 % chlorine added to 48.0 gallons of water in crotch

Date UV quartz sleeve last cleaned: 8/31/2017 Date UV lamp replaced: N/A
MM/YYYY MM/YYYY

Alarm activation: No Yes If "Yes," date of activation: N/A Residual Treatment Residual Level: 0.2 mg/l
MM/YYYY

Reported by: Maq K. King Title: Regional Manager NYSDOH Operator Certification Number: NY0034619

Signature: [Signature] Date: 9/7/2017 Operator Grade Level: IIA, C, D
MM/YYYY

NEW YORK STATE DEPARTMENT OF HEALTH

Water System Operation Report

Bureau of Water Supply Protection

For Systems that Treat with Chlorine and/or Ultraviolet Radiation

Public Water System Name: Sunshine Children's Home Public Water System ID: NY 5910495

County: Westchester Town, Village or City: Ossining Source Water Type(s): Surface

Reporting Month/Year: September-2017 Date Report Submitted: 10/3/2017

- Ground
泉水
 Disinfect with subsequent chlorination
 Disinfect with subsequent chlorination
 No treatment required

Date	Source(s) in use	Treated water volume (gallons)	CHLORINATION			ULTRAVIOLET RADIATION/OTHER TREATMENTS		
			Gas		Free Chlorine residual at entry point (mg/l)	UV Unit Active (YES/NO)	Intensity meter mJ/cm ²	Quartz sleeve cleaned (YES/NO)
			Cylinder weight (LBS)	Chlorine used/Day (LBS)				
1	Well(s) 1 & 2	3,400			1.0	Yes	64.8	Yes
2	Well(s) 1 & 2	4,700			1.3	Yes	64.8	Yes
3	Well(s) 1 & 2	3,300			1.6	Yes	64.8	Yes
4	Well(s) 1 & 2	4,200			0.9	Yes	64.8	Yes
5	Well(s) 1 & 2	5,300			0.7	Yes	64.8	Yes
6	Well(s) 1 & 2	3,500			0.7	Yes	64.8	Yes
7	Well(s) 1 & 2	6,200			2.75	Yes	64.8	Yes
8	Well(s) 1 & 2	3,400			1.1	Yes	64.8	Yes
9	Well(s) 1 & 2	4,700			1.2	Yes	64.8	Yes
10	Well(s) 1 & 2	4,600			0.7	Yes	64.8	Yes
11	Well(s) 1 & 2	4,500			0.5	Yes	64.8	Yes
12	Well(s) 1 & 2	4,500			0.7	Yes	64.8	Yes
13	Well(s) 1 & 2	4,100			0.5	Yes	64.8	Yes
14	Well(s) 1 & 2	4,000			0.5	Yes	64.8	Yes
15	Well(s) 1 & 2	4,800			0.5	Yes	64.8	Yes
16	Well(s) 1 & 2	4,600			0.5	Yes	64.8	Yes
17	Well(s) 1 & 2	4,200			0.4	Yes	64.8	Yes
18	Well(s) 1 & 2	5,200			1	Yes	64.8	Yes
19	Well(s) 1 & 2	3,900			0.8	Yes	64.8	Yes
20	Well(s) 1 & 2	3,900			0.5	Yes	64.8	Yes
21	Well(s) 1 & 2	5,200			0.3	Yes	64.8	Yes
22	Well(s) 1 & 2	4,100			1.1	Yes	64.8	Yes
23	Well(s) 1 & 2	3,400			1.6	Yes	64.8	Yes
24	Well(s) 1 & 2	5,000			1.3	Yes	64.8	Yes
25	Well(s) 1 & 2	6,000			1.4	Yes	64.8	Yes
26	Well(s) 1 & 2	5,500			0.5	Yes	64.8	Yes
27	Well(s) 1 & 2	5,000			3.25	Yes	64.8	Yes
28	Well(s) 1 & 2	4,300			1.1	Yes	64.8	Yes
29	Well(s) 1 & 2	5,300			1.1	Yes	64.8	Yes
30	Well(s) 1 & 2	4,300			1.1	Yes	64.8	Yes
Total		135,100			8			
AVG.		4,503			1.6		64.8	

Chlorine Mix Ratio = 8.0 Quarts/gallons of 15 % chlorine added to 48.0 gallons of water in each

Date UV quartz sleeve last cleaned: 9/30/2017 Date UV lamp replaced: N/A

Alarm activation: On Off If "Yes," date of activation: N/A Required Treatment Residual Level: 0.2 mg/l

Reported by: Matt Krong Title: Regional Manager NYS DOH Operator Certification Number: NY0034619

Signature: [Signature] Date: 10/3/2017 Operator Grade Level: IIA,C,D

NEW YORK STATE DEPARTMENT OF HEALTH
Bureau of Water Supply Protection

Water System Operation Report
For Systems that Treat with Chlorine and/or Ultraviolet Radiation

Public Water System Name: Sunshine Children's Home Public Water System ID: NY 5910495

County: Westchester Town, Village or City: Ossining Source Water Type(s): Surface Ground Both Purchased with subsequent chlorination Purchased w/out subsequent chlorination No treatment required

Reporting Month/Year: October-2017 Date Report Submitted: 11/8/2017
MM/YYYY MM/YYYY

Date	Source(s) in use	Treated water volume (gallons/day)	CHLORINATION			Free Chlorine residual at entry point (mg/l)	UV Unit Active (YES/NO)	ULTRAVIOLET RADIATION/OTHER TREATMENTS	
			Cylinder weight (LBS.)	Chlorine used/Day (LBS.)	Hypochlorite added to creek (GALLONS OR QUARTS)			Intensity meter (m/cm 2)	Quartz sleeve cleaned (YES/NO)
1	Well(s) 1 & 2	3,800				1.0	Yes	64.8	Yes
2	Well(s) 1 & 2	4,300				1.0	Yes	64.8	Yes
3	Well(s) 1 & 2	4,400				1.8	Yes	64.8	Yes
4	Well(s) 1 & 2	4,900				1.3	Yes	64.8	Yes
5	Well(s) 1 & 2	5,600				0.6	Yes	64.8	Yes
6	Well(s) 1 & 2	3,400				1.1	Yes	64.8	Yes
7	Well(s) 1 & 2	4,000				0.6	Yes	64.8	Yes
8	Well(s) 1 & 2	3,900				0.9	Yes	64.8	Yes
9	Well(s) 1 & 2	4,300				0.8	Yes	64.8	Yes
10	Well(s) 1 & 2	4,600				0.7	Yes	64.8	Yes
11	Well(s) 1 & 2	4,200				1.2	Yes	64.8	Yes
12	Well(s) 1 & 2	4,500				0.8	Yes	64.8	Yes
13	Well(s) 1 & 2	3,800			2.5	1.2	Yes	64.8	Yes
14	Well(s) 1 & 2	4,100				1.0	Yes	64.8	Yes
15	Well(s) 1 & 2	3,900				1.2	Yes	64.8	Yes
16	Well(s) 1 & 2	4,100				1.3	Yes	64.8	Yes
17	Well(s) 1 & 2	5,000				1.2	Yes	64.8	Yes
18	Well(s) 1 & 2	4,300				0.6	Yes	64.8	Yes
19	Well(s) 1 & 2	3,600				0.5	Yes	64.8	Yes
20	Well(s) 1 & 2	5,600				0.6	Yes	64.8	Yes
21	Well(s) 1 & 2	3,800				0.7	Yes	64.8	Yes
22	Well(s) 1 & 2	4,300				1.0	Yes	64.8	Yes
23	Well(s) 1 & 2	2,400				0.9	Yes	64.8	Yes
24	Well(s) 1 & 2	5,900			3	0.8	Yes	64.8	Yes
25	Well(s) 1 & 2	4,500				1.0	Yes	64.8	Yes
26	Well(s) 1 & 2	4,300				1.4	Yes	64.8	Yes
27	Well(s) 1 & 2	4,000				1.6	Yes	64.8	Yes
28	Well(s) 1 & 2	3,500				1.7	Yes	64.8	Yes
29	Well(s) 1 & 2	3,800				1.6	Yes	64.8	Yes
30	Well(s) 1 & 2	4,400				1.6	Yes	64.8	Yes
31	Well(s) 1 & 2	4,800				1.9	Yes	64.8	Yes
Total		132,000				5.5			
Avg		4,258				2.8	1.1	64.8	

Chlorine Mix Ratio = 8.0 Quarts/gallons of 15 % chloring added to 48.0 gallons of water to creek

Date UV quartz sleeve last cleaned: 10/31/2017 Date UV lamp replaced: N/A
MM/DD/YY MM/DD/YY

Alarm activation: No Yes If "Yes," date of activation: N/A Required Treatment Residual Level: 0.2 mg/l
MM/DD/YY

Reported by: Matt Kfoog Title: Regional Manager NYSOEH Operator Certification Number: NY0034619

Signature: [Signature] Date: 11/8/2017 Operator Grade/Level: TIA, C,D
MM/YYYY